

Atomic structure of decagonal Al-Cu-Rh quasicrystal – revisited

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Table S1. Diffraction pattern of *d*-Al-Cu-Rh. List of 6 components of the scattering vector, parallel (k_x , k_y , k_z), and perpendicular (k_x^{perp} , k_y^{perp} , k_z^{perp}), measured amplitudes ($|F_{\text{obs}}|$), their uncertainties ($u(|F_{\text{obs}}|)$), calculated amplitudes ($|F_{\text{calc}}|$), and extinction parameters (ext).

no.	k_x	k_y	k_z	k_x^{perp}	k_y^{perp}	k_z^{perp}	$ F_{\text{obs}} $	$u(F_{\text{obs}})$	$ F_{\text{calc}} $	ext
1	0.000000	0.000000	2.937441	0.000000	0.000000	0.000000	1.000000	0.021348	1.124498	0.861693
2	2.623589	-0.000000	1.468720	-1.002122	0.000000	-2.293101	0.802970	0.016524	0.847717	0.930869
3	0.000000	0.000000	5.874881	0.000000	0.000000	0.000000	0.730269	0.015459	0.620491	0.781327
4	4.746117	1.542107	0.000000	-0.692449	0.953074	-5.732752	0.705888	0.019921	0.642102	0.867455
5	2.933262	0.953074	0.000000	1.120406	-1.542107	-5.732752	0.619808	0.012361	0.639017	0.960117
6	2.623589	-0.000000	4.406161	-1.002122	0.000000	-2.293101	0.611901	0.013593	0.564629	0.902267
7	4.746117	1.542107	2.937441	-0.692449	0.953074	-5.732752	0.511933	0.010390	0.475888	0.912991
8	1.621467	-0.000000	0.000000	1.621467	-0.000000	-4.586202	0.444326	0.010895	0.463465	0.994803
9	6.868645	-0.000000	1.468720	-0.382776	0.000000	-9.172403	0.434472	0.007533	0.409917	0.902941
10	4.245056	-0.000000	0.000000	0.619345	0.000000	-6.879303	0.424287	0.008524	0.422086	0.969174
11	4.245056	-0.000000	2.937441	0.619345	0.000000	-6.879303	0.406028	0.007833	0.389917	0.959871
12	2.933262	0.953074	2.937441	1.120406	-1.542107	-5.732752	0.405564	0.011545	0.411486	0.968961
13	1.621467	-0.000000	2.937441	1.621467	-0.000000	-4.586202	0.395251	0.009540	0.399772	0.982818
14	7.679379	2.495181	0.000000	0.427957	-0.589032	-11.465504	0.395054	0.007684	0.379457	0.880739
15	5.556851	0.953074	1.468720	0.118284	-1.542107	-8.025853	0.388408	0.006324	0.375504	0.949440
16	4.746117	1.542107	5.874881	-0.692449	0.953074	-5.732752	0.366180	0.005701	0.338770	0.922025
17	0.000000	0.000000	8.812322	0.000000	0.000000	0.000000	0.366153	0.007018	0.366218	0.858684
18	6.868645	-0.000000	4.406161	-0.382776	0.000000	-9.172403	0.347072	0.007034	0.323786	0.920956
19	2.623589	-0.000000	7.343601	-1.002122	0.000000	-2.293101	0.326148	0.004758	0.317072	0.932308
20	5.556851	0.953074	4.406161	0.118284	-1.542107	-8.025853	0.308525	0.006385	0.293858	0.953043
21	3.935384	0.953074	1.468720	-1.503183	-1.542107	-3.439651	0.306856	0.005730	0.306738	0.982696
22	7.679379	2.495181	2.937441	0.427957	-0.589032	-11.465504	0.296850	0.005767	0.286980	0.932384
23	2.933262	0.953074	5.874881	1.120406	-1.542107	-5.732752	0.295309	0.005765	0.289947	0.960989
24	5.866523	-0.000000	0.000000	2.240813	0.000000	-11.465504	0.284612	0.005513	0.272110	0.973653
25	4.245056	-0.000000	5.874881	0.619345	0.000000	-6.879303	0.279814	0.005423	0.271371	0.960937
26	1.002122	-0.000000	1.468720	-2.623589	0.000000	2.293101	0.256398	0.006121	0.261834	0.997885
27	1.621467	-0.000000	5.874881	1.621467	-0.000000	-4.586202	0.251082	0.004483	0.245479	0.977892
28	9.492234	-0.000000	0.000000	-1.384898	0.000000	-11.465504	0.246529	0.005006	0.246511	0.937692
29	3.935384	0.953074	4.406161	-1.503183	-1.542107	-3.439651	0.242471	0.004421	0.234883	0.979998
30	1.621467	-0.000000	1.468720	1.621467	-0.000000	-4.586202	0.228087	0.005656	0.223335	0.997816
31	8.490112	-0.000000	1.468720	1.238691	0.000000	-13.758605	0.223627	0.004303	0.226859	0.959831
32	6.367584	1.542107	2.937441	0.929018	0.953074	-10.318954	0.222558	0.004750	0.221680	0.974801
33	7.679379	2.495181	5.874881	0.427957	-0.589032	-11.465504	0.220143	0.008190	0.220116	0.946992
34	5.247178	-0.000000	2.937441	-2.004244	0.000000	-4.586202	0.218710	0.003992	0.203296	0.985207
35	5.247178	-0.000000	0.000000	-2.004244	0.000000	-4.586202	0.218566	0.003541	0.210509	0.988097
36	6.367584	1.542107	0.000000	0.929018	0.953074	-10.318954	0.216993	0.004020	0.221847	0.979387
37	3.434323	0.589032	2.937441	-0.191388	2.495181	-4.586202	0.210547	0.003593	0.205855	0.991227
38	7.369706	1.542107	1.468720	-1.694571	0.953074	-8.025853	0.209386	0.004475	0.203345	0.974873
39	3.434323	0.589032	0.000000	-0.191388	2.495181	-4.586202	0.206993	0.003528	0.210806	0.994706
40	6.868645	-0.000000	7.343601	-0.382776	0.000000	-9.172403	0.202357	0.003429	0.201380	0.956291

41	4.746117	1.542107	8.812322	-0.692449	0.953074	-5.732752	0.186938	0.006454	0.202781	0.953802
42	8.490112	-0.000000	4.406161	1.238691	0.000000	-13.758605	0.186814	0.006154	0.185529	0.966950
43	1.002122	-0.000000	4.406161	-2.623589	0.000000	2.293101	0.186509	0.004017	0.185883	0.992932
44	5.247178	-0.000000	1.468720	-2.004244	0.000000	-4.586202	0.183126	0.003813	0.176803	0.990996
45	4.245056	-0.000000	8.812322	0.619345	0.000000	-6.879303	0.182990	0.004814	0.183378	0.966672
46	7.369706	1.542107	4.406161	-1.694571	0.953074	-8.025853	0.176608	0.003925	0.167684	0.977712
47	9.492234	-0.000000	2.937441	-1.384898	0.000000	-11.465504	0.176168	0.003692	0.176197	0.967449
48	5.556851	0.953074	7.343601	0.118284	-1.542107	-8.025853	0.175831	0.004027	0.177949	0.971641
49	5.866523	-0.000000	2.937441	2.240813	0.000000	-11.465504	0.175765	0.004130	0.173979	0.986880
50	7.679379	0.589032	0.000000	0.427957	2.495181	-11.465504	0.172092	0.003922	0.169679	0.981950
51	6.367584	1.542107	5.874881	0.929018	0.953074	-10.318954	0.165976	0.003888	0.164717	0.978822
52	1.621467	-0.000000	7.343601	1.621467	-0.000000	-4.586202	0.164037	0.003501	0.163072	0.985169
53	2.933262	0.953074	8.812322	1.120406	-1.542107	-5.732752	0.160709	0.004054	0.170346	0.973121
54	1.621467	-0.000000	8.812322	1.621467	-0.000000	-4.586202	0.157682	0.003667	0.162072	0.978375
55	4.245056	-0.000000	7.343601	0.619345	0.000000	-6.879303	0.154578	0.003616	0.149220	0.984503
56	5.866523	-0.000000	5.874881	2.240813	0.000000	-11.465504	0.152680	0.003184	0.147588	0.984432
57	5.247178	-0.000000	5.874881	-2.004244	0.000000	-4.586202	0.152315	0.003250	0.141663	0.987465
58	1.621467	-0.000000	4.406161	1.621467	-0.000000	-4.586202	0.144138	0.003119	0.144203	0.995726
59	7.178318	0.953074	2.937441	1.739752	-1.542107	-12.612055	0.143705	0.003047	0.140598	0.987599
60	8.991173	1.542107	2.937441	-0.073104	0.953074	-12.612055	0.143260	0.004284	0.143262	0.981098
61	2.432201	0.589032	1.468720	2.432201	2.495181	-6.879303	0.142087	0.003106	0.145418	0.998108
62	5.055790	0.589032	2.937441	1.430079	2.495181	-9.172403	0.139709	0.003240	0.129310	0.994036
63	7.178318	0.953074	0.000000	1.739752	-1.542107	-12.612055	0.138781	0.003286	0.138869	0.989747
64	8.991173	1.542107	0.000000	-0.073104	0.953074	-12.612055	0.137690	0.003359	0.142880	0.983197
65	8.180440	0.953074	2.937441	-0.883837	-1.542107	-10.318954	0.136754	0.003440	0.136619	0.985566
66	5.247178	-0.000000	4.406161	-2.004244	0.000000	-4.586202	0.135437	0.002934	0.133315	0.991802
67	9.801907	0.953074	1.468720	0.737630	-1.542107	-14.905156	0.135361	0.005354	0.145364	0.977996
68	5.247178	-0.000000	7.343601	-2.004244	0.000000	-4.586202	0.134424	0.003147	0.131457	0.985499
69	1.812855	0.589032	0.000000	-1.812855	2.495181	0.000000	0.134245	0.002486	0.126145	0.999414
70	3.434323	0.589032	5.874881	-0.191388	2.495181	-4.586202	0.133404	0.003366	0.135010	0.991340
71	8.180440	0.953074	0.000000	-0.883837	-1.542107	-10.318954	0.132155	0.003218	0.133648	0.987915
72	1.002122	-0.000000	2.937441	-2.623589	0.000000	2.293101	0.132081	0.002851	0.130965	0.998381
73	8.681501	2.495181	1.468720	-2.195632	-0.589032	-9.172403	0.131102	0.004189	0.138183	0.983090
74	3.935384	0.953074	7.343601	-1.503183	-1.542107	-3.439651	0.130892	0.003462	0.133000	0.987253
75	4.554729	0.953074	1.468720	2.741873	-1.542107	-10.318954	0.128779	0.003075	0.125597	0.996077
76	6.558973	0.953074	0.000000	-2.505305	-1.542107	-5.732752	0.127729	0.002234	0.122585	0.993070
77	4.245056	-0.000000	1.468720	0.619345	0.000000	-6.879303	0.127609	0.003434	0.121191	0.997346
78	5.055790	0.589032	1.468720	1.430079	2.495181	-9.172403	0.125595	0.002962	0.124063	0.995580
79	7.870767	-0.000000	2.937441	-3.006365	0.000000	-6.879303	0.121430	0.003192	0.121501	0.988605
80	9.492234	3.084214	0.000000	-1.384898	1.906149	-11.465504	0.115354	0.004600	0.129315	0.981949
81	7.870767	-0.000000	0.000000	-3.006365	0.000000	-6.879303	0.113862	0.003929	0.116915	0.990864
82	3.124650	0.364042	0.000000	-2.313916	-4.037288	-1.146550	0.111247	0.002388	0.113160	0.998438
83	5.055790	0.589032	4.406161	1.430079	2.495181	-9.172403	0.110968	0.002663	0.108505	0.994444
84	8.681501	2.495181	4.406161	-2.195632	-0.589032	-9.172403	0.109891	0.002372	0.119213	0.984619
85	4.245056	-0.000000	4.406161	0.619345	0.000000	-6.879303	0.108232	0.003400	0.110457	0.995836
86	7.679379	0.589032	2.937441	0.427957	2.495181	-11.465504	0.106124	0.002678	0.108123	0.991746
87	6.367584	1.542107	7.343601	0.929018	0.953074	-10.318954	0.104003	0.003776	0.101466	0.990045
88	7.178318	2.131139	1.468720	1.739752	3.448256	-12.612055	0.103511	0.002995	0.102440	0.992837
89	7.178318	0.953074	5.874881	1.739752	-1.542107	-12.612055	0.103273	0.003367	0.103074	0.990344
90	3.434323	0.589032	1.468720	-0.191388	2.495181	-4.586202	0.100922	0.002820	0.103187	0.998518
91	4.864402	0.000000	1.468720	4.864402	0.000000	-13.758605	0.099826	0.002575	0.096389	0.996899
92	7.679379	0.589032	5.874881	0.427957	2.495181	-11.465504	0.097027	0.004434	0.100084	0.989943
93	6.367584	1.542107	1.468720	0.929018	0.953074	-10.318954	0.096752	0.002664	0.092829	0.996362
94	8.180440	0.953074	5.874881	-0.883837	-1.542107	-10.318954	0.094961	0.004491	0.101984	0.989054
95	7.989051	1.542107	1.468720	2.550485	0.953074	-14.905156	0.094307	0.002571	0.092080	0.993914
96	5.055790	0.589032	0.000000	1.430079	2.495181	-9.172403	0.093398	0.002478	0.093540	0.997697
97	3.242934	-0.000000	0.000000	3.242934	-0.000000	-9.172403	0.091532	0.002040	0.085226	0.999209
98	7.178318	0.953074	1.468720	1.739752	-1.542107	-12.612055	0.090849	0.003046	0.090253	0.995548
99	5.247178	-0.000000	8.812322	-2.004244	0.000000	-4.586202	0.090582	0.005834	0.095533	0.989990
100	1.002122	-0.000000	7.343601	-2.623589	0.000000	2.293101	0.090541	0.002098	0.093347	0.995089
101	2.814977	0.589032	0.000000	-4.436444	2.495181	2.293101	0.090076	0.002164	0.088757	0.999145
102	3.434323	0.589032	8.812322	-0.191388	2.495181	-4.586202	0.088929	0.003240	0.092512	0.991868
103	3.935384	0.953074	2.937441	-1.503183	-1.542107	-3.439651	0.087389	0.002206	0.084621	0.998283
104	7.870767	-0.000000	5.874881	-3.006365	0.000000	-6.879303	0.086392	0.003750	0.087091	0.991863
105	3.434323	0.589032	7.343601	-0.191388	2.495181	-4.586202	0.085730	0.002455	0.083065	0.995324
106	7.989051	1.542107	4.406161	2.550485	0.953074	-14.905156	0.085286	0.003360	0.083715	0.993591
107	7.369706	1.542107	2.937441	-1.694571	0.953074	-8.025853	0.084821	0.002414	0.080130	0.995869
108	6.868645	1.906149	2.937441	-0.382776	-3.084214	-9.172403	0.084370	0.002482	0.083719	0.995525
109	6.367584	1.542107	4.406161	0.929018	0.953074	-10.318954	0.082384	0.002704	0.081756	0.996035

110	6.057912	0.589032	1.468720	-1.193510	2.495181	-6.879303	0.082320	0.002619	0.082335	0.997293
111	4.554729	0.953074	7.343601	2.741873	-1.542107	-10.318954	0.080619	0.002473	0.080662	0.994606
112	4.554729	0.953074	4.406161	2.741873	-1.542107	-10.318954	0.080358	0.002326	0.080973	0.997155
113	4.746117	0.364042	2.937441	-0.692449	-4.037288	-5.732752	0.079813	0.002155	0.076610	0.997862
114	2.122528	0.364042	1.468720	0.309673	-4.037288	-3.439651	0.078124	0.001950	0.074845	0.999570
115	2.432201	0.589032	4.406161	2.432201	2.495181	-6.879303	0.077839	0.002336	0.078962	0.998276
116	2.432201	0.589032	7.343601	2.432201	2.495181	-6.879303	0.077311	0.002103	0.077431	0.995973
117	3.743995	0.364042	2.937441	1.931140	-4.037288	-8.025853	0.076152	0.002117	0.073798	0.998494
118	9.300846	0.589032	2.937441	2.049424	2.495181	-16.051706	0.076146	0.003074	0.076865	0.993625
119	8.991173	1.542107	1.468720	-0.073104	0.953074	-12.612055	0.074478	0.002793	0.077523	0.995065
120	5.055790	0.589032	5.874881	1.430079	2.495181	-9.172403	0.073827	0.001998	0.069847	0.996909
121	3.124650	0.364042	2.937441	-2.313916	-4.037288	-1.146550	0.073415	0.002124	0.070868	0.998847
122	7.487991	-0.000000	0.000000	3.862280	0.000000	-16.051706	0.072963	0.001739	0.074149	0.996426
123	1.120406	0.364042	2.937441	2.933262	-4.037288	-5.732752	0.072931	0.002142	0.070958	0.999348
124	7.178318	2.131139	4.406161	1.739752	3.448256	-12.612055	0.072904	0.001942	0.069591	0.995677
125	6.558973	0.953074	5.874881	-2.505305	-1.542107	-5.732752	0.071560	0.002017	0.071581	0.995676
126	4.554729	0.953074	2.937441	2.741873	-1.542107	-10.318954	0.071432	0.002247	0.071145	0.998400
127	8.490112	1.906149	1.468720	1.238691	-3.084214	-13.758605	0.071182	0.002545	0.071743	0.995525
128	9.300846	0.589032	0.000000	2.049424	2.495181	-16.051706	0.071166	0.002478	0.074585	0.994599
129	9.993295	1.542107	1.468720	-2.696693	0.953074	-10.318954	0.069620	0.001918	0.079134	0.992784
130	7.178318	0.953074	4.406161	1.739752	-1.542107	-12.612055	0.067285	0.002627	0.066741	0.996755
131	7.369706	0.364042	0.000000	-1.694571	-4.037288	-8.025853	0.067259	0.001808	0.071019	0.996605
132	9.300846	2.495181	1.468720	2.049424	-0.589032	-16.051706	0.067182	0.003372	0.070907	0.995100
133	4.436444	0.589032	2.937441	-2.814977	2.495181	-2.293101	0.066803	0.002187	0.065117	0.998648
134	8.490112	1.906149	4.406161	1.238691	-3.084214	-13.758605	0.065696	0.002567	0.066667	0.995196
135	6.057912	0.589032	7.343601	-1.193510	2.495181	-6.879303	0.065169	0.002138	0.067032	0.995617
136	4.053668	0.589032	2.937441	4.053668	2.495181	-11.465504	0.064848	0.001836	0.059227	0.998872
137	2.122528	0.364042	2.937441	0.309673	-4.037288	-3.439651	0.063447	0.001962	0.064888	0.999365
138	4.864402	0.000000	4.406161	4.864402	0.000000	-13.758605	0.063130	0.001912	0.060315	0.997950
139	4.746117	0.364042	1.468720	-0.692449	-4.037288	-5.732752	0.062411	0.001787	0.063188	0.998856
140	2.432201	0.589032	2.937441	2.432201	2.495181	-6.879303	0.062140	0.002173	0.064512	0.999340
141	9.300846	0.589032	1.468720	2.049424	2.495181	-16.051706	0.061819	0.002142	0.063898	0.995943
142	6.057912	0.589032	2.937441	-1.193510	2.495181	-6.879303	0.061424	0.002181	0.061374	0.998242
143	6.367584	0.364042	2.937441	0.929018	-4.037288	-10.318954	0.061320	0.001900	0.059755	0.997906
144	6.558973	0.953074	2.937441	-2.505305	-1.542107	-5.732752	0.060854	0.001639	0.063223	0.997804
145	2.623589	-0.000000	0.000000	-1.002122	0.000000	-2.293101	0.060349	0.001998	0.066888	0.999726
146	3.434323	0.589032	4.406161	-0.191388	2.495181	-4.586202	0.059934	0.002003	0.061534	0.998821
147	5.055790	0.589032	7.343601	1.430079	2.495181	-9.172403	0.059773	0.001944	0.060132	0.996918
148	7.870767	-0.000000	1.468720	-3.006365	0.000000	-6.879303	0.059581	0.001987	0.056160	0.997852
149	9.300846	2.495181	2.937441	2.049424	-0.589032	-16.051706	0.059186	0.004761	0.066600	0.995355
150	7.679379	0.589032	1.468720	0.427957	2.495181	-11.465504	0.058924	0.001882	0.055943	0.998044
151	5.866523	1.906149	0.000000	2.240813	-3.084214	-11.465504	0.058287	0.002147	0.052146	0.998833
152	8.991173	1.542107	4.406161	-0.073104	0.953074	-12.612055	0.057019	0.003903	0.067248	0.995463
153	2.240813	0.000000	2.937441	5.866523	-0.000000	-11.465504	0.056893	0.001539	0.056825	0.999337
154	5.247178	1.178065	1.468720	-2.004244	4.990363	-4.586202	0.056602	0.001719	0.055478	0.998658
155	4.554729	0.953074	0.000000	2.741873	-1.542107	-10.318954	0.055215	0.001619	0.058748	0.999227
156	9.300846	2.495181	0.000000	2.049424	-0.589032	-16.051706	0.055170	0.002799	0.059992	0.996592
157	1.002122	-0.000000	5.874881	-2.623589	0.000000	2.293101	0.055049	0.001838	0.054280	0.998954
158	5.748239	1.542107	4.406161	-3.316038	0.953074	-3.439651	0.054294	0.001682	0.054500	0.998208
159	6.868645	1.906149	0.000000	-0.382776	-3.084214	-9.172403	0.054168	0.001500	0.058113	0.998183
160	6.986930	1.542107	2.937441	5.174074	0.953074	-17.198257	0.053125	0.001635	0.051766	0.997734
161	7.487991	-0.000000	2.937441	3.862280	0.000000	-16.051706	0.053018	0.001483	0.051372	0.998013
162	9.801907	2.131139	0.000000	0.737630	3.448256	-14.905156	0.052966	0.001190	0.054982	0.996460
163	9.182562	0.953074	2.937441	-3.507426	-1.542107	-8.025853	0.052941	0.001847	0.052182	0.996945
164	5.866523	-0.000000	1.468720	2.240813	0.000000	-11.465504	0.052721	0.001846	0.056073	0.998883
165	5.748239	1.542107	1.468720	-3.316038	0.953074	-3.439651	0.052521	0.001665	0.051572	0.998918
166	6.057912	1.317117	0.000000	-1.193510	-5.579395	-6.879303	0.052434	0.001657	0.055477	0.998232
167	6.057912	0.589032	4.406161	-1.193510	2.495181	-6.879303	0.052310	0.001807	0.056051	0.998170
168	7.369706	1.542107	5.874881	-1.694571	0.953074	-8.025853	0.052094	0.002083	0.049465	0.997758
169	8.180440	0.953074	1.468720	-0.883837	-1.542107	-10.318954	0.050809	0.001923	0.051434	0.998197
170	2.004244	-0.000000	0.000000	-5.247178	0.000000	4.586202	0.050746	0.001410	0.047192	0.999880
171	8.298724	2.495181	1.468720	4.673013	-0.589032	-18.344807	0.050471	0.001626	0.052077	0.997233
172	5.748239	0.364042	1.468720	-3.316038	-4.037288	-3.439651	0.050344	0.001643	0.048510	0.998859
173	2.240813	0.000000	1.468720	5.866523	-0.000000	-11.465504	0.050130	0.001677	0.043677	0.999795
174	6.485869	-0.000000	0.000000	6.485869	-0.000000	-18.344807	0.050130	0.001519	0.049791	0.998187
175	9.993295	1.542107	0.000000	-2.696693	0.953074	-10.318954	0.050005	0.001516	0.049215	0.997304
176	2.814977	0.589032	1.468720	-4.436444	2.495181	2.293101	0.049685	0.001614	0.044054	0.999734
177	4.746117	0.364042	4.406161	-0.692449	-4.037288	-5.732752	0.049601	0.001989	0.048833	0.998824
178	6.558973	2.131139	2.937441	-2.505305	3.448256	-5.732752	0.049407	0.001726	0.046110	0.998551

179	5.247178	1.178065	0.000000	-2.004244	4.990363	-4.586202	0.049331	0.001593	0.047257	0.999097
180	6.367584	0.364042	0.000000	0.929018	-4.037288	-10.318954	0.048934	0.001937	0.049967	0.998804
181	4.937505	0.953074	2.937441	-4.126772	-1.542107	-1.146550	0.048447	0.001808	0.047478	0.999074
182	6.868645	1.906149	5.874881	-0.382776	-3.084214	-9.172403	0.047758	0.001513	0.046846	0.997952
183	1.812855	0.589032	5.874881	-1.812855	2.495181	0.000000	0.047438	0.001873	0.044919	0.999198
184	3.552607	0.953074	1.468720	5.365462	-1.542107	-12.612055	0.047144	0.001715	0.048148	0.999479
185	6.176196	0.953074	0.000000	4.363341	-1.542107	-14.905156	0.047000	0.001911	0.045491	0.998985
186	7.679379	0.589032	4.406161	0.427957	2.495181	-11.465504	0.046749	0.001997	0.041665	0.998590
187	3.552607	0.953074	0.000000	5.365462	-1.542107	-12.612055	0.046555	0.001427	0.037860	0.999723
188	3.124650	0.364042	5.874881	-2.313916	-4.037288	-1.146550	0.046262	0.001691	0.045575	0.998832
189	4.554729	0.953074	5.874881	2.741873	-1.542107	-10.318954	0.046239	0.001895	0.044293	0.998825
190	6.677257	0.589032	2.937441	3.051546	2.495181	-13.758605	0.046076	0.001520	0.042966	0.998852
191	8.490112	-0.000000	2.937441	1.238691	0.000000	-13.758605	0.046045	0.002272	0.046530	0.998324
192	7.178318	2.131139	2.937441	1.739752	3.448256	-12.612055	0.045814	0.001696	0.046000	0.998408
193	4.436444	0.589032	1.468720	-2.814977	2.495181	-2.293101	0.045496	0.001640	0.041296	0.999582
194	5.247178	1.178065	4.406161	-2.004244	4.990363	-4.586202	0.045137	0.001763	0.044218	0.998655
195	4.864402	0.000000	7.343601	4.864402	0.000000	-13.758605	0.045095	0.001500	0.045279	0.997853
196	3.242934	-0.000000	4.406161	3.242934	-0.000000	-9.172403	0.044311	0.001299	0.039830	0.999501
197	6.057912	0.589032	5.874881	-1.193510	2.495181	-6.879303	0.044297	0.001929	0.044058	0.998549
198	7.178318	2.131139	0.000000	1.739752	3.448256	-12.612055	0.044067	0.001789	0.044264	0.998734
199	0.619345	0.000000	4.406161	4.245056	-0.000000	-6.879303	0.043962	0.001676	0.041940	0.999592
200	8.298724	2.495181	4.406161	4.673013	-0.589032	-18.344807	0.043943	0.002644	0.044004	0.997544
201	8.991173	0.364042	1.468720	-0.073104	-4.037288	-12.612055	0.043934	0.001927	0.045407	0.997926
202	6.057912	0.589032	0.000000	-1.193510	2.495181	-6.879303	0.043430	0.002081	0.045851	0.999212
203	6.057912	1.317117	2.937441	-1.193510	-5.579395	-6.879303	0.043293	0.001498	0.041829	0.998762
204	0.619345	0.000000	1.468720	4.245056	-0.000000	-6.879303	0.043186	0.001361	0.037614	0.999959
205	3.935384	0.953074	5.874881	-1.503183	-1.542107	-3.439651	0.043099	0.001739	0.043322	0.999066
206	1.503183	0.364042	1.468720	-3.935384	-4.037288	3.439651	0.043089	0.001236	0.041055	0.999890
207	5.055790	0.589032	8.812322	1.430079	2.495181	-9.172403	0.042751	0.002629	0.045345	0.997677
208	10.111580	-0.000000	0.000000	2.860158	0.000000	-18.344807	0.042672	0.001353	0.046551	0.997589
209	5.866523	-0.000000	4.406161	2.240813	0.000000	-11.465504	0.042483	0.001334	0.041003	0.999108
210	6.868645	1.178065	1.468720	-0.382776	4.990363	-9.172403	0.041753	0.001713	0.042221	0.998786
211	1.002122	-0.000000	8.812322	-2.623589	0.000000	2.293101	0.041647	0.001605	0.041650	0.998582
212	3.625711	-0.000000	0.000000	-3.625711	0.000000	0.000000	0.041381	0.001685	0.034622	0.999830
213	6.367584	0.364042	5.874881	0.929018	-4.037288	-10.318954	0.041231	0.001531	0.039434	0.998579
214	7.369706	1.542107	0.000000	-1.694571	0.953074	-8.025853	0.041152	0.001644	0.037960	0.999208
215	2.240813	0.000000	4.406161	5.866523	-0.000000	-11.465504	0.040917	0.001746	0.037851	0.999469
216	7.870767	-0.000000	4.406161	-3.006365	0.000000	-6.879303	0.040443	0.001637	0.034542	0.998955
217	8.180440	2.131139	2.937441	-0.883837	3.448256	-10.318954	0.040379	0.001559	0.039969	0.998543
218	2.432201	0.589032	0.000000	2.432201	2.495181	-6.879303	0.040162	0.001542	0.046415	0.999857
219	9.182562	0.953074	0.000000	-3.507426	-1.542107	-8.025853	0.039970	0.001430	0.039883	0.998399
220	8.180440	0.953074	4.406161	-0.883837	-1.542107	-10.318954	0.039885	0.001559	0.042228	0.998461
221	9.109458	-0.000000	1.468720	5.483747	-0.000000	-20.637908	0.039769	0.001825	0.040544	0.997899
222	3.935384	0.953074	8.812322	-1.503183	-1.542107	-3.439651	0.039567	0.001713	0.038748	0.998561
223	5.748239	0.364042	0.000000	-3.316038	-4.037288	-3.439651	0.039202	0.001726	0.043993	0.999121
224	5.365462	1.542107	4.406161	3.552607	0.953074	-12.612055	0.038706	0.001461	0.035474	0.999286
225	2.623589	0.728084	0.000000	-1.002122	-8.074577	-2.293101	0.038647	0.001356	0.035815	0.999767
226	6.485869	-0.000000	2.937441	6.485869	-0.000000	-18.344807	0.038626	0.001710	0.038935	0.998656
227	2.814977	0.589032	5.874881	-4.436444	2.495181	2.293101	0.038185	0.001540	0.036935	0.999212
228	4.436444	1.317117	1.468720	-2.814977	-5.579395	-2.293101	0.038085	0.001434	0.038021	0.999445
229	2.814977	0.589032	2.937441	-4.436444	2.495181	2.293101	0.037962	0.001488	0.035024	0.999726
230	6.986930	1.542107	0.000000	5.174074	0.953074	-17.198257	0.037888	0.001552	0.035698	0.999088
231	2.122528	0.364042	4.406161	0.309673	-4.037288	-3.439651	0.037784	0.001492	0.037540	0.999612
232	3.625711	-0.000000	2.937441	-3.625711	0.000000	0.000000	0.037691	0.001934	0.033076	0.999741
233	2.432201	0.589032	5.874881	2.432201	2.495181	-6.879303	0.037472	0.001582	0.038110	0.999356
234	9.492234	-0.000000	1.468720	-1.384898	0.000000	-11.465504	0.037269	0.001962	0.032893	0.999028
235	6.249300	-0.000000	2.937441	-4.627833	0.000000	-2.293101	0.037030	0.001294	0.037174	0.999167
236	3.242934	-0.000000	1.468720	3.242934	-0.000000	-9.172403	0.037022	0.001580	0.031616	0.999869
237	7.487991	-0.000000	5.874881	3.862280	0.000000	-16.051706	0.036844	0.001945	0.036622	0.998553
238	4.746117	0.364042	0.000000	-0.692449	-4.037288	-5.732752	0.036806	0.001585	0.039062	0.999602
239	3.552607	0.953074	4.406161	5.365462	-1.542107	-12.612055	0.036790	0.001455	0.037814	0.999316
240	7.989051	0.364042	2.937441	2.550485	-4.037288	-14.905156	0.036557	0.001500	0.035821	0.998768
241	5.748239	0.364042	4.406161	-3.316038	-4.037288	-3.439651	0.036386	0.001548	0.034791	0.999114
242	4.436444	1.317117	0.000000	-2.814977	-5.579395	-2.293101	0.036338	0.001462	0.035477	0.999562
243	5.055790	1.317117	0.000000	1.430079	-5.579395	-9.172403	0.036220	0.001632	0.037249	0.999435
244	7.369706	0.364042	5.874881	-1.694571	-4.037288	-8.025853	0.036138	0.001637	0.036247	0.998515
245	7.369706	0.364042	2.937441	-1.694571	-4.037288	-8.025853	0.036052	0.001365	0.037763	0.998886
246	6.558973	0.953074	1.468720	-2.505305	-1.542107	-5.732752	0.035670	0.001576	0.032588	0.999493
247	1.002122	-0.000000	0.000000	-2.623589	0.000000	2.293101	0.035598	0.001007	0.043027	0.999982

248	5.365462	1.542107	1.468720	3.552607	0.953074	-12.612055	0.035524	0.001819	0.034215	0.999569
249	2.240813	0.000000	0.000000	5.866523	-0.000000	-11.465504	0.035220	0.001370	0.027478	0.999943
250	7.487991	1.906149	1.468720	3.862280	-3.084214	-16.051706	0.034865	0.001534	0.034289	0.999024
251	3.316038	0.953074	0.000000	-5.748239	-1.542107	3.439651	0.034610	0.001276	0.039003	0.999724
252	4.937505	0.953074	0.000000	-4.126772	-1.542107	-1.146550	0.034333	0.001725	0.037543	0.999572
253	6.485869	-0.000000	5.874881	6.485869	-0.000000	-18.344807	0.034266	0.001297	0.033522	0.998458
254	5.247178	0.728084	1.468720	-2.004244	-8.074577	-4.586202	0.034245	0.001434	0.033652	0.999104
255	2.004244	-0.000000	1.468720	-5.247178	0.000000	4.586202	0.034062	0.001297	0.032806	0.999911
256	5.247178	1.178065	2.937441	-2.004244	4.990363	-4.586202	0.033667	0.001417	0.032867	0.999429
257	4.053668	0.589032	1.468720	4.053668	2.495181	-11.465504	0.033646	0.001377	0.033990	0.999725
258	7.870767	1.178065	0.000000	-3.006365	4.990363	-6.879303	0.033609	0.001516	0.033944	0.998863
259	4.436444	1.317117	4.406161	-2.814977	-5.579395	-2.293101	0.033608	0.001450	0.031687	0.999323
260	1.812855	0.589032	8.812322	-1.812855	2.495181	0.000000	0.033590	0.001529	0.033662	0.999001
261	3.743995	0.364042	0.000000	1.931140	-4.037288	-8.025853	0.033497	0.001401	0.037094	0.999766
262	2.814977	0.589032	4.406161	-4.436444	2.495181	2.293101	0.033257	0.001481	0.029500	0.999679
263	8.799785	0.953074	0.000000	3.361219	-1.542107	-17.198257	0.033159	0.001671	0.032249	0.999060
264	9.492234	1.906149	0.000000	-1.384898	-3.084214	-11.465504	0.033045	0.002320	0.033101	0.998838
265	9.109458	-0.000000	0.000000	5.483747	-0.000000	-20.637908	0.032814	0.001799	0.035735	0.998414
266	6.868645	1.906149	4.406161	-0.382776	-3.084214	-9.172403	0.032588	0.001521	0.030624	0.999292
267	2.741873	0.364042	1.468720	4.554729	-4.037288	-10.318954	0.032519	0.001359	0.031548	0.999848
268	3.743995	0.364042	5.874881	1.931140	-4.037288	-8.025853	0.032512	0.001606	0.032505	0.999363
269	7.369706	0.364042	1.468720	-1.694571	-4.037288	-8.025853	0.032290	0.001393	0.032729	0.999254
270	4.554729	0.953074	8.812322	2.741873	-1.542107	-10.318954	0.031952	0.002473	0.032082	0.998865
271	5.866523	1.906149	5.874881	2.240813	-3.084214	-11.465504	0.031894	0.001361	0.031157	0.999181
272	5.748239	1.542107	7.343601	-3.316038	0.953074	-3.439651	0.031811	0.001328	0.032923	0.998901
273	8.681501	1.317117	1.468720	-2.195632	-5.579395	-9.172403	0.031716	0.001481	0.031715	0.998698
274	9.610519	1.542107	1.468720	4.171952	0.953074	-19.491357	0.031576	0.002029	0.033884	0.998594
275	5.556851	0.953074	2.937441	0.118284	-1.542107	-8.025853	0.031466	0.001638	0.028341	0.999697
276	9.492234	1.906149	1.468720	-1.384898	-3.084214	-11.465504	0.031465	0.001867	0.036572	0.998545
277	6.986930	1.542107	5.874881	5.174074	0.953074	-17.198257	0.031356	0.001641	0.031186	0.998796
278	2.505305	0.364042	1.468720	-6.558973	-4.037288	5.732752	0.031055	0.001355	0.032646	0.999799
279	4.864402	0.000000	2.937441	4.864402	0.000000	-13.758605	0.031055	0.001300	0.032564	0.999558
280	8.490112	1.906149	2.937441	1.238691	-3.084214	-13.758605	0.030807	0.001597	0.031232	0.999084
281	9.109458	-0.000000	4.406161	5.483747	-0.000000	-20.637908	0.030576	0.002063	0.034606	0.998128
282	7.178318	2.131139	5.874881	1.739752	3.448256	-12.612055	0.030449	0.001617	0.030113	0.999023
283	6.868645	-0.000000	2.937441	-0.382776	0.000000	-9.172403	0.030447	0.001548	0.029609	0.999553
284	6.367584	0.364042	1.468720	0.929018	-4.037288	-10.318954	0.030429	0.001394	0.031752	0.999491
285	8.180440	2.131139	0.000000	-0.883837	3.448256	-10.318954	0.030380	0.001472	0.031042	0.999224
286	9.492234	1.178065	2.937441	-1.384898	4.990363	-11.465504	0.030380	0.001759	0.033648	0.998359
287	3.242934	0.728084	0.000000	3.242934	-8.074577	-9.172403	0.030274	0.001247	0.026458	0.999780
288	4.627833	-0.000000	2.937441	-6.249300	0.000000	2.293101	0.030037	0.001437	0.026860	0.999645
289	5.365462	0.364042	1.468720	3.552607	-4.037288	-12.612055	0.029920	0.001449	0.030045	0.999607
290	5.247178	1.178065	5.874881	-2.004244	4.990363	-4.586202	0.029918	0.001505	0.029213	0.999220
291	5.748239	0.364042	7.343601	-3.316038	-4.037288	-3.439651	0.029858	0.001486	0.029897	0.998881
292	4.627833	1.178065	0.000000	-6.249300	4.990363	2.293101	0.029831	0.001263	0.028355	0.999561
293	2.122528	0.364042	7.343601	0.309673	-4.037288	-3.439651	0.029768	0.001679	0.032858	0.999253
294	7.797663	0.953074	1.468720	5.984808	-1.542107	-19.491357	0.029671	0.001235	0.030350	0.999020
295	9.801907	2.131139	1.468720	0.737630	3.448256	-14.905156	0.029576	0.002707	0.033704	0.998646
296	5.675135	0.589032	0.000000	5.675135	2.495181	-16.051706	0.028756	0.001309	0.031276	0.999483
297	2.432201	0.589032	8.812322	2.432201	2.495181	-6.879303	0.028733	0.001541	0.028538	0.999227
298	5.748239	1.542107	0.000000	-3.316038	0.953074	-3.439651	0.028698	0.001344	0.023880	0.999782
299	4.053668	0.589032	4.406161	4.053668	2.495181	-11.465504	0.028517	0.001443	0.028710	0.999620
300	2.623589	0.728084	2.937441	-1.002122	-8.074577	-2.293101	0.028395	0.001347	0.029958	0.999645
301	7.487991	-0.000000	1.468720	3.862280	0.000000	-16.051706	0.028359	0.001898	0.028907	0.999439
302	2.814977	0.589032	7.343601	-4.436444	2.495181	2.293101	0.028347	0.001439	0.028404	0.999311
303	8.799785	0.953074	1.468720	3.361219	-1.542107	-17.198257	0.028266	0.001569	0.029542	0.999188
304	4.746117	0.364042	7.343601	-0.692449	-4.037288	-5.732752	0.028187	0.001459	0.028546	0.999246
305	2.240813	0.000000	5.874881	5.866523	-0.000000	-11.465504	0.028175	0.001395	0.025426	0.999608
306	6.057912	1.317117	5.874881	-1.193510	-5.579395	-6.879303	0.028100	0.001624	0.028308	0.999101
307	3.242934	-0.000000	5.874881	3.242934	-0.000000	-9.172403	0.027627	0.001745	0.025293	0.999694
308	5.483747	-0.000000	0.000000	9.109458	-0.000000	-20.637908	0.027551	0.001300	0.027798	0.999247
309	1.238691	0.000000	2.937441	8.490112	-0.000000	-13.758605	0.027417	0.000903	0.025145	0.999827
310	6.558973	0.953074	4.406161	-2.505305	-1.542107	-5.732752	0.027412	0.001449	0.025036	0.999583
311	4.937505	0.953074	5.874881	-4.126772	-1.542107	-1.146550	0.027396	0.001375	0.026232	0.999491
312	4.937505	0.953074	1.468720	-4.126772	-1.542107	-1.146550	0.027358	0.001508	0.030028	0.999702
313	7.870767	1.178065	2.937441	-3.006365	4.990363	-6.879303	0.027307	0.001452	0.026822	0.999187
314	8.991173	0.364042	4.406161	-0.073104	-4.037288	-12.612055	0.027229	0.002350	0.028648	0.998989
315	8.180440	0.224990	0.000000	-0.883837	6.532470	-10.318954	0.027145	0.001468	0.026318	0.999160
316	9.993295	0.364042	1.468720	-2.696693	-4.037288	-10.318954	0.027135	0.001773	0.031633	0.998591

317	7.561094	2.131139	1.468720	-5.128894	3.448256	-3.439651	0.027114	0.001398	0.026746	0.999240
318	5.365462	1.542107	2.937441	3.552607	0.953074	-12.612055	0.026691	0.001274	0.024358	0.999738
319	4.436444	1.317117	7.343601	-2.814977	-5.579395	-2.293101	0.026676	0.001329	0.026483	0.999099
320	5.866523	-0.000000	7.343601	2.240813	0.000000	-11.465504	0.026671	0.001468	0.024689	0.999452
321	1.503183	0.364042	2.937441	-3.935384	-4.037288	3.439651	0.026643	0.001109	0.025028	0.999901
322	6.057912	1.317117	1.468720	-1.193510	-5.579395	-6.879303	0.026594	0.001221	0.024659	0.999632
323	8.799785	2.859223	0.000000	3.361219	-4.626321	-17.198257	0.026566	0.001998	0.028523	0.998913
324	8.681501	0.589032	4.406161	-2.195632	2.495181	-9.172403	0.026526	0.001952	0.026574	0.999244
325	7.870767	1.178065	1.468720	-3.006365	4.990363	-6.879303	0.026438	0.001310	0.026456	0.999285
326	6.868645	-0.000000	5.874881	-0.382776	0.000000	-9.172403	0.026327	0.001270	0.027356	0.999427
327	3.862280	-0.000000	0.000000	7.487991	-0.000000	-16.051706	0.026234	0.000974	0.022449	0.999842
328	7.369706	2.270191	1.468720	-1.694571	-7.121502	-8.025853	0.026171	0.001445	0.028182	0.998967
329	7.870767	1.906149	0.000000	-3.006365	-3.084214	-6.879303	0.026042	0.001344	0.027396	0.999395
330	7.060033	0.589032	0.000000	-3.817099	2.495181	-4.586202	0.026004	0.001253	0.026201	0.999568
331	9.683622	2.495181	0.000000	-4.819221	-0.589032	-6.879303	0.025988	0.001638	0.029351	0.998816
332	7.989051	1.542107	0.000000	2.550485	0.953074	-14.905156	0.025755	0.001436	0.030162	0.999377
333	6.868645	1.178065	4.406161	-0.382776	4.990363	-9.172403	0.025747	0.001253	0.025978	0.999375
334	4.436444	0.589032	5.874881	-2.814977	2.495181	-2.293101	0.025709	0.001229	0.026588	0.999562
335	5.438566	0.589032	2.937441	-5.438566	2.495181	0.000000	0.025540	0.001328	0.024351	0.999642
336	6.176196	0.953074	1.468720	4.363341	-1.542107	-14.905156	0.025479	0.001460	0.022134	0.999746
337	3.552607	0.953074	2.937441	5.365462	-1.542107	-12.612055	0.025190	0.001449	0.022018	0.999846
338	4.746117	0.364042	5.874881	-0.692449	-4.037288	-5.732752	0.025175	0.001491	0.025631	0.999555
339	6.057912	1.317117	4.406161	-1.193510	-5.579395	-6.879303	0.024806	0.001383	0.024168	0.999488
340	5.866523	1.178065	1.468720	2.240813	4.990363	-11.465504	0.024799	0.001220	0.023163	0.999709
341	5.247178	0.728084	4.406161	-2.004244	-8.074577	-4.586202	0.024565	0.001263	0.023478	0.999305
342	4.053668	0.589032	0.000000	4.053668	2.495181	-11.465504	0.024545	0.001417	0.020541	0.999911
343	9.182562	0.953074	1.468720	-3.507426	-1.542107	-8.025853	0.024496	0.001631	0.024339	0.999389
344	9.801907	0.953074	0.000000	0.737630	-1.542107	-14.905156	0.024334	0.001779	0.022838	0.999498
345	7.989051	0.364042	4.406161	2.550485	-4.037288	-14.905156	0.023911	0.001660	0.024223	0.999347
346	6.868645	1.906149	1.468720	-0.382776	-3.084214	-9.172403	0.023801	0.001572	0.023154	0.999700
347	2.741873	0.364042	4.406161	4.554729	-4.037288	-10.318954	0.023732	0.001207	0.023461	0.999764
348	0.619345	0.000000	0.000000	4.245056	-0.000000	-6.879303	0.023689	0.000901	0.018818	0.999998
349	5.675135	0.589032	2.937441	5.675135	2.495181	-16.051706	0.023688	0.001448	0.022579	0.999657
350	8.608397	1.542107	1.468720	6.795541	0.953074	-21.784458	0.023685	0.001452	0.023794	0.999137
351	1.120406	0.364042	5.874881	2.933262	-4.037288	-5.732752	0.023656	0.001193	0.022761	0.999755
352	7.369706	2.270191	4.406161	-1.694571	-7.121502	-8.025853	0.023625	0.001518	0.023880	0.999035
353	7.561094	2.131139	4.406161	-5.128894	3.448256	-3.439651	0.023618	0.001514	0.022816	0.999286
354	2.933262	0.224990	1.468720	1.120406	6.532470	-5.732752	0.023567	0.001156	0.018334	0.999937
355	1.120406	0.364042	0.000000	2.933262	-4.037288	-5.732752	0.023443	0.000982	0.018209	0.999994
356	7.989051	0.364042	1.468720	2.550485	-4.037288	-14.905156	0.023302	0.001527	0.023350	0.999527
357	4.627833	1.178065	2.937441	-6.249300	4.990363	2.293101	0.023238	0.001296	0.024814	0.999533
358	4.554729	0.224990	0.000000	2.741873	6.532470	-10.318954	0.023203	0.001053	0.021573	0.999813
359	2.240813	0.000000	7.343601	5.866523	-0.000000	-11.465504	0.023193	0.001519	0.023662	0.999485
360	8.681501	1.317117	4.406161	-2.195632	-5.579395	-9.172403	0.023186	0.001695	0.023571	0.999111
361	7.487991	1.906149	4.406161	3.862280	-3.084214	-16.051706	0.023154	0.001406	0.022751	0.999442
362	9.182562	2.859223	0.000000	-3.507426	-4.626321	-8.025853	0.023008	0.001708	0.024786	0.999093
363	8.799785	0.953074	4.406161	3.361219	-1.542107	-17.198257	0.022982	0.001701	0.022694	0.999409
364	4.053668	0.589032	5.874881	4.053668	2.495181	-11.465504	0.022918	0.001353	0.020779	0.999714
365	7.989051	0.364042	0.000000	2.550485	-4.037288	-14.905156	0.022867	0.001524	0.023936	0.999520
366	7.679379	1.317117	2.937441	0.427957	-5.579395	-11.465504	0.022827	0.001499	0.023271	0.999436
367	8.681501	0.589032	1.468720	-2.195632	2.495181	-9.172403	0.022819	0.001514	0.023161	0.999538
368	7.870767	1.178065	4.406161	-3.006365	4.990363	-6.879303	0.022760	0.001581	0.023652	0.999266
369	3.124650	0.814023	0.000000	-2.313916	9.027651	-1.146550	0.022501	0.001122	0.018943	0.999874
370	5.675135	0.589032	1.468720	5.675135	2.495181	-16.051706	0.022485	0.001239	0.020046	0.999773
371	5.866523	1.178065	0.000000	2.240813	4.990363	-11.465504	0.022452	0.001334	0.020940	0.999776
372	6.367584	0.364042	7.343601	0.929018	-4.037288	-10.318954	0.022387	0.001454	0.021323	0.999469
373	7.797663	0.953074	4.406161	5.984808	-1.542107	-19.491357	0.022206	0.001219	0.022536	0.999303
374	5.748239	1.542107	2.937441	-3.316038	0.953074	-3.439651	0.022157	0.001350	0.020020	0.999808
375	4.937505	0.953074	7.343601	-4.126772	-1.542107	-1.146550	0.022037	0.001452	0.022778	0.999482
376	6.558973	0.224990	2.937441	-2.505305	6.532470	-5.732752	0.022000	0.001149	0.022475	0.999492
377	3.625711	-0.000000	1.468720	-3.625711	0.000000	0.000000	0.021979	0.001093	0.021759	0.999922
378	6.558973	2.131139	0.000000	-2.505305	3.448256	-5.732752	0.021953	0.001571	0.018674	0.999801
379	3.124650	0.364042	8.812322	-2.313916	-4.037288	-1.146550	0.021905	0.001633	0.024035	0.999334
380	7.561094	0.953074	2.937441	-5.128894	-1.542107	-3.439651	0.021883	0.001208	0.022982	0.999493
381	2.505305	0.364042	4.406161	-6.558973	-4.037288	5.732752	0.021853	0.001256	0.020586	0.999756
382	3.552607	0.953074	5.874881	5.365462	-1.542107	-12.612055	0.021665	0.001285	0.019799	0.999723
383	4.436444	0.589032	0.000000	-2.814977	2.495181	-2.293101	0.021602	0.001130	0.023818	0.999875
384	3.625711	1.178065	2.937441	-3.625711	4.990363	0.000000	0.021581	0.001195	0.025633	0.999756
385	7.060033	0.589032	1.468720	-3.817099	2.495181	-4.586202	0.021549	0.001365	0.021575	0.999694

386	9.683622	2.495181	1.468720	-4.819221	-0.589032	-6.879303	0.021430	0.002220	0.026822	0.998988
387	6.677257	0.589032	4.406161	3.051546	2.495181	-13.758605	0.021415	0.001226	0.020484	0.999684
388	1.238691	0.000000	5.874881	8.490112	-0.000000	-13.758605	0.021315	0.001216	0.020762	0.999573
389	8.298724	2.495181	0.000000	4.673013	-0.589032	-18.344807	0.021242	0.001217	0.018842	0.999651
390	9.492234	1.178065	0.000000	-1.384898	4.990363	-11.465504	0.021227	0.001415	0.022132	0.999359
391	1.503183	0.364042	4.406161	-3.935384	-4.037288	3.439651	0.021173	0.001172	0.018063	0.999897
392	6.868645	1.178065	7.343601	-0.382776	4.990363	-9.172403	0.021144	0.002650	0.024280	0.999149
393	4.245056	1.178065	0.000000	0.619345	4.990363	-6.879303	0.021138	0.001160	0.024008	0.999854
394	9.182562	0.953074	4.406161	-3.507426	-1.542107	-8.025853	0.020943	0.002708	0.028644	0.998968
395	8.799785	2.131139	0.000000	3.361219	3.448256	-17.198257	0.020936	0.001398	0.021502	0.999492
396	8.107336	-0.000000	1.468720	8.107336	-0.000000	-22.931009	0.020871	0.001237	0.020400	0.999276
397	9.182562	2.131139	1.468720	-3.507426	3.448256	-8.025853	0.020840	0.001392	0.020410	0.999479
398	7.369706	0.364042	4.406161	-1.694571	-4.037288	-8.025853	0.020813	0.001303	0.021589	0.999570
399	2.240813	0.000000	8.812322	5.866523	-0.000000	-11.465504	0.020598	0.001379	0.019684	0.999489
400	3.242934	-0.000000	7.343601	3.242934	-0.000000	-9.172403	0.020568	0.001688	0.017401	0.999789
401	6.176196	0.953074	5.874881	4.363341	-1.542107	-14.905156	0.020482	0.001397	0.019990	0.999620
402	1.311795	0.224990	0.000000	-0.501061	6.532470	-1.146550	0.020466	0.000929	0.021834	0.999986
403	6.558973	0.224990	0.000000	-2.505305	6.532470	-5.732752	0.020373	0.001200	0.019330	0.999690
404	7.369706	0.814023	0.000000	-1.694571	9.027651	-8.025853	0.020285	0.001165	0.021523	0.999139
405	8.608397	1.542107	4.406161	6.795541	0.953074	-21.784458	0.020273	0.001514	0.020674	0.999193
406	3.124650	0.364042	4.406161	-2.313916	-4.037288	-1.146550	0.020039	0.001298	0.020155	0.999851
407	8.681501	2.495181	0.000000	-2.195632	-0.589032	-9.172403	0.019941	0.001248	0.019872	0.999674
408	3.625711	0.728084	1.468720	-3.625711	-8.074577	0.000000	0.019913	0.001510	0.022872	0.999754
409	7.369706	2.270191	0.000000	-1.694571	-7.121502	-8.025853	0.019877	0.001501	0.019754	0.999512
410	7.797663	0.953074	0.000000	5.984808	-1.542107	-19.491357	0.019850	0.001599	0.020947	0.999551
411	5.483747	-0.000000	2.937441	9.109458	-0.000000	-20.637908	0.019847	0.001396	0.021575	0.999412
412	7.870767	1.178065	5.874881	-3.006365	4.990363	-6.879303	0.019802	0.001701	0.021071	0.999301
413	8.371828	0.364042	2.937441	-4.318160	-4.037288	-5.732752	0.019674	0.001407	0.019685	0.999510
414	7.060033	1.317117	0.000000	-3.817099	-5.579395	-4.586202	0.019657	0.001432	0.018773	0.999664
415	9.109458	-0.000000	2.937441	5.483747	-0.000000	-20.637908	0.019624	0.001214	0.021304	0.999374
416	1.238691	0.000000	0.000000	8.490112	-0.000000	-13.758605	0.019546	0.000749	0.025559	0.999973
417	5.866523	1.178065	4.406161	2.240813	4.990363	-11.465504	0.019494	0.001547	0.017967	0.999741
418	0.929018	0.224990	1.468720	6.367584	6.532470	-10.318954	0.019471	0.000907	0.017526	0.999970
419	3.242934	0.728084	2.937441	3.242934	-8.074577	-9.172403	0.019452	0.001230	0.021173	0.999747
420	3.935384	0.224990	1.468720	-1.503183	6.532470	-3.439651	0.019431	0.001156	0.018168	0.999896
421	7.369706	2.270191	2.937441	-1.694571	-7.121502	-8.025853	0.019318	0.001471	0.019336	0.999460
422	6.868645	1.178065	2.937441	-0.382776	4.990363	-9.172403	0.019289	0.001370	0.019879	0.999695
423	8.180440	0.224990	2.937441	-0.883837	6.532470	-10.318954	0.019273	0.001432	0.018595	0.999523
424	6.795541	0.953074	0.000000	8.608397	-1.542107	-21.784458	0.019257	0.001216	0.017436	0.999575
425	4.126772	0.364042	0.000000	-4.937505	-4.037288	1.146550	0.019024	0.001342	0.019668	0.999890
426	9.610519	1.542107	2.937441	4.171952	0.953074	-19.491357	0.018959	0.002376	0.022375	0.999343
427	5.675135	0.589032	5.874881	5.675135	2.495181	-16.051706	0.018940	0.001400	0.018345	0.999622
428	7.870767	0.728084	0.000000	-3.006365	-8.074577	-6.879303	0.018924	0.001601	0.017936	0.999416
429	8.681501	0.589032	2.937441	-2.195632	2.495181	-9.172403	0.018875	0.001415	0.019752	0.999634
430	1.503183	0.364042	7.343601	-3.935384	-4.037288	3.439651	0.018874	0.001394	0.018988	0.999696
431	8.490112	1.178065	2.937441	1.238691	4.990363	-13.758605	0.018739	0.001388	0.018687	0.999596
432	5.365462	0.364042	7.343601	3.552607	-4.037288	-12.612055	0.018722	0.001346	0.018757	0.999573
433	3.743995	0.364042	8.812322	1.931140	-4.037288	-8.025853	0.018618	0.001713	0.018660	0.999588
434	8.991173	0.364042	0.000000	-0.073104	-4.037288	-12.612055	0.018534	0.001540	0.021473	0.999551
435	5.174074	0.953074	1.468720	6.986930	-1.542107	-17.198257	0.018358	0.001323	0.018158	0.999806
436	2.004244	-0.000000	7.343601	-5.247178	0.000000	4.586202	0.018241	0.001355	0.019587	0.999688
437	6.986930	1.542107	1.468720	5.174074	0.953074	-17.198257	0.018119	0.001487	0.018848	0.999735
438	2.313916	0.224990	0.000000	-3.124650	6.532470	1.146550	0.018103	0.000760	0.016060	0.999972
439	8.681501	2.495181	2.937441	-2.195632	-0.589032	-9.172403	0.018045	0.001482	0.020455	0.999615
440	5.247178	1.178065	7.343601	-2.004244	4.990363	-4.586202	0.018020	0.001398	0.018022	0.999606
441	5.556851	0.953074	5.874881	0.118284	-1.542107	-8.025853	0.017956	0.001444	0.017946	0.999796
442	2.814977	0.589032	8.812322	-4.436444	2.495181	2.293101	0.017909	0.001598	0.019226	0.999554
443	8.371828	1.542107	0.000000	-4.318160	0.953074	-5.732752	0.017873	0.001317	0.014857	0.999799
444	6.558973	2.131139	5.874881	-2.505305	3.448256	-5.732752	0.017821	0.001111	0.017046	0.999705
445	6.677257	0.589032	5.874881	3.051546	2.495181	-13.758605	0.017729	0.001428	0.017589	0.999708
446	1.384898	-0.000000	1.468720	-9.492234	0.000000	11.465504	0.017686	0.000931	0.018326	0.999952
447	4.436444	1.317117	2.937441	-2.814977	-5.579395	-2.293101	0.017627	0.001272	0.015573	0.999881
448	3.862280	-0.000000	4.406161	7.487991	-0.000000	-16.051706	0.017607	0.001154	0.019685	0.999716
449	4.053668	0.589032	7.343601	4.053668	2.495181	-11.465504	0.017591	0.001251	0.017978	0.999700
450	4.436444	1.317117	5.874881	-2.814977	-5.579395	-2.293101	0.017483	0.001290	0.017465	0.999715
451	5.675135	0.589032	4.406161	5.675135	2.495181	-16.051706	0.017462	0.001220	0.017357	0.999742
452	6.750361	1.542107	0.000000	-5.939627	0.953074	-1.146550	0.017385	0.001417	0.014334	0.999844
453	9.610519	0.364042	2.937441	4.171952	-4.037288	-19.491357	0.017369	0.001311	0.018146	0.999465
454	7.060033	1.317117	1.468720	-3.817099	-5.579395	-4.586202	0.017353	0.001431	0.015640	0.999757

455	9.492234	0.728084	1.468720	-1.384898	-8.074577	-11.465504	0.017349	0.001396	0.017156	0.999268
456	6.986930	1.542107	4.406161	5.174074	0.953074	-17.198257	0.017206	0.001778	0.017444	0.999695
457	2.122528	0.364042	5.874881	0.309673	-4.037288	-3.439651	0.017126	0.001639	0.017084	0.999868
458	3.862280	-0.000000	7.343601	7.487991	-0.000000	-16.051706	0.017124	0.001364	0.016761	0.999574
459	7.487991	1.906149	2.937441	3.862280	-3.084214	-16.051706	0.016955	0.001254	0.016863	0.999738
460	4.436444	0.589032	8.812322	-2.814977	2.495181	-2.293101	0.016906	0.001448	0.017524	0.999645
461	7.989051	0.364042	5.874881	2.550485	-4.037288	-14.905156	0.016871	0.001588	0.017705	0.999582
462	7.178318	0.224990	1.468720	1.739752	6.532470	-12.612055	0.016825	0.001308	0.014107	0.999802
463	3.862280	-0.000000	1.468720	7.487991	-0.000000	-16.051706	0.016707	0.001261	0.018220	0.999881
464	7.369706	0.814023	2.937441	-1.694571	9.027651	-8.025853	0.016693	0.001249	0.016939	0.999378
465	4.245056	1.178065	7.343601	0.619345	4.990363	-6.879303	0.016576	0.001362	0.016142	0.999738
466	5.984808	1.542107	2.937441	7.797663	0.953074	-19.491357	0.016465	0.001346	0.016105	0.999713
467	3.862280	1.178065	1.468720	7.487991	4.990363	-16.051706	0.016455	0.001235	0.015346	0.999865
468	6.677257	0.589032	0.000000	3.051546	2.495181	-13.758605	0.016440	0.001513	0.015862	0.999870
469	8.062155	2.495181	0.000000	-6.440688	-0.589032	-2.293101	0.016380	0.001418	0.016922	0.999639
470	5.055790	1.317117	2.937441	1.430079	-5.579395	-9.172403	0.016378	0.001230	0.014393	0.999888
471	4.746117	0.814023	1.468720	-0.692449	9.027651	-5.732752	0.016279	0.001132	0.016006	0.999794
472	2.623589	0.728084	5.874881	-1.002122	-8.074577	-2.293101	0.016192	0.001324	0.015751	0.999738
473	8.180440	0.224990	5.874881	-0.883837	6.532470	-10.318954	0.016134	0.002406	0.018001	0.999385
474	6.249300	-0.000000	0.000000	-4.627833	0.000000	-2.293101	0.016094	0.001137	0.018909	0.999825
475	5.365462	1.542107	5.874881	3.552607	0.953074	-12.612055	0.016093	0.001351	0.015710	0.999816
476	2.550485	0.224990	1.468720	7.989051	6.532470	-14.905156	0.016081	0.000867	0.013343	0.999929
477	3.051546	0.589032	0.000000	6.677257	2.495181	-13.758605	0.016046	0.000983	0.018965	0.999933
478	5.939627	0.953074	1.468720	-6.750361	-1.542107	1.146550	0.016038	0.001402	0.016115	0.999812
479	5.128894	0.364042	2.937441	-7.561094	-4.037288	3.439651	0.016030	0.001095	0.013648	0.999817
480	2.933262	0.224990	4.406161	1.120406	6.532470	-5.732752	0.015930	0.001228	0.015021	0.999888
481	4.937505	0.953074	8.812322	-4.126772	-1.542107	-1.146550	0.015911	0.001728	0.017085	0.999612
482	1.311795	0.224990	1.468720	-0.501061	6.532470	-1.146550	0.015867	0.000868	0.015538	0.999984
483	5.055790	1.317117	5.874881	1.430079	-5.579395	-9.172403	0.015853	0.001285	0.015519	0.999772
484	7.060033	0.589032	2.937441	-3.817099	2.495181	-4.586202	0.015786	0.001385	0.013313	0.999868
485	8.298724	0.589032	4.406161	4.673013	2.495181	-18.344807	0.015760	0.001293	0.015703	0.999682
486	4.053668	1.317117	0.000000	4.053668	-5.579395	-11.465504	0.015676	0.001190	0.024661	0.999796
487	5.748239	0.364042	5.874881	-3.316038	-4.037288	-3.439651	0.015653	0.001320	0.016407	0.999743
488	2.505305	0.814023	0.000000	-6.558973	9.027651	5.732752	0.015640	0.000977	0.012167	0.999938
489	1.739752	0.364042	0.000000	7.178318	-4.037288	-12.612055	0.015629	0.000715	0.014586	0.999983
490	3.625711	0.728084	4.406161	-3.625711	-8.074577	0.000000	0.015588	0.001351	0.016060	0.999742
491	5.365462	0.364042	4.406161	3.552607	-4.037288	-12.612055	0.015547	0.001294	0.015497	0.999835
492	7.060033	0.589032	7.343601	-3.817099	2.495181	-4.586202	0.015505	0.001278	0.017357	0.999586
493	6.677257	0.589032	1.468720	3.051546	2.495181	-13.758605	0.015481	0.001415	0.015867	0.999863
494	6.558973	0.224990	5.874881	-2.505305	6.532470	-5.732752	0.015449	0.001493	0.014617	0.999670
495	8.298724	0.589032	1.468720	4.673013	2.495181	-18.344807	0.015408	0.001391	0.015678	0.999749
496	3.862280	-0.000000	2.937441	7.487991	-0.000000	-16.051706	0.015368	0.001323	0.017549	0.999846
497	9.419130	0.953074	0.000000	7.606275	-1.542107	-24.077559	0.015327	0.001150	0.016978	0.999380
498	7.060033	1.317117	2.937441	-3.817099	-5.579395	-4.586202	0.015191	0.001384	0.014859	0.999753
499	8.107336	-0.000000	4.406161	8.107336	-0.000000	-22.931009	0.015121	0.001205	0.014618	0.999527
500	8.681501	1.317117	0.000000	-2.195632	-5.579395	-9.172403	0.015068	0.001330	0.016533	0.999657
501	9.801907	2.859223	0.000000	0.737630	-4.626321	-14.905156	0.015039	0.002590	0.017975	0.999547
502	2.004244	-0.000000	2.937441	-5.247178	0.000000	4.586202	0.015036	0.001225	0.015494	0.999959
503	3.625711	-0.000000	8.812322	-3.625711	0.000000	0.000000	0.014929	0.001817	0.015223	0.999757
504	1.384898	-0.000000	2.937441	-9.492234	0.000000	11.465504	0.014909	0.000905	0.011123	0.999954
505	5.866523	1.178065	7.343601	2.240813	4.990363	-11.465504	0.014883	0.001363	0.013497	0.999755
506	8.062155	0.589032	0.000000	-6.440688	2.495181	-2.293101	0.014863	0.001167	0.016496	0.999657
507	6.249300	-0.000000	5.874881	-4.627833	0.000000	-2.293101	0.014854	0.001976	0.014840	0.999791
508	2.313916	0.224990	5.874881	-3.124650	6.532470	1.146550	0.014815	0.001369	0.015738	0.999799
509	2.505305	0.364042	7.343601	-6.558973	-4.037288	5.732752	0.014792	0.001473	0.014082	0.999725
510	7.251422	1.906149	1.468720	-7.251422	-3.084214	0.000000	0.014779	0.001213	0.014664	0.999699
511	2.933262	0.224990	0.000000	1.120406	6.532470	-5.732752	0.014740	0.000966	0.017984	0.999951
512	1.238691	0.000000	8.812322	8.490112	-0.000000	-13.758605	0.014693	0.001349	0.015116	0.999483
513	6.558973	0.953074	7.343601	-2.505305	-1.542107	-5.732752	0.014642	0.001512	0.013876	0.999796
514	8.062155	2.495181	1.468720	-6.440688	-0.589032	-2.293101	0.014528	0.001362	0.013883	0.999749
515	4.436444	0.589032	4.406161	-2.814977	2.495181	-2.293101	0.014522	0.001379	0.012204	0.999934
516	7.060033	1.317117	5.874881	-3.817099	-5.579395	-4.586202	0.014514	0.001433	0.015066	0.999627
517	6.249300	1.906149	2.937441	-4.627833	-3.084214	-2.293101	0.014416	0.001394	0.014529	0.999841
518	5.866523	0.728084	1.468720	2.240813	-8.074577	-11.465504	0.014384	0.001261	0.014209	0.999800
519	7.487991	1.906149	0.000000	3.862280	-3.084214	-16.051706	0.014329	0.001469	0.013852	0.999847
520	3.006365	-0.000000	0.000000	-7.870767	0.000000	6.879303	0.014287	0.000879	0.011663	0.999972
521	5.365462	0.364042	2.937441	3.552607	-4.037288	-12.612055	0.014253	0.001453	0.014156	0.999894
522	7.870767	1.906149	2.937441	-3.006365	-3.084214	-6.879303	0.014221	0.001832	0.014562	0.999805
523	0.929018	0.224990	4.406161	6.367584	6.532470	-10.318954	0.014195	0.001053	0.013365	0.999883

524	7.487991	-0.000000	4.406161	3.862280	0.000000	-16.051706	0.014186	0.001297	0.014576	0.999812
525	7.251422	-0.000000	0.000000	-7.251422	0.000000	0.000000	0.014178	0.001542	0.015018	0.999756
526	3.625711	1.178065	5.874881	-3.625711	4.990363	0.000000	0.014037	0.001200	0.014164	0.999839
527	10.111580	1.178065	0.000000	2.860158	4.990363	-18.344807	0.013969	0.001617	0.018556	0.999430
528	5.055790	1.317117	7.343601	1.430079	-5.579395	-9.172403	0.013968	0.001366	0.012960	0.999787
529	4.436444	0.589032	7.343601	-2.814977	2.495181	-2.293101	0.013960	0.001592	0.013532	0.999844
530	4.627833	-0.000000	0.000000	-6.249300	0.000000	2.293101	0.013954	0.001231	0.009300	0.999970
531	2.741873	0.814023	0.000000	4.554729	9.027651	-10.318954	0.013893	0.001012	0.015153	0.999920
532	6.176196	0.953074	2.937441	4.363341	-1.542107	-14.905156	0.013814	0.001302	0.013736	0.999886
533	6.367584	0.364042	4.406161	0.929018	-4.037288	-10.318954	0.013811	0.001581	0.013258	0.999874
534	3.743995	0.814023	2.937441	1.931140	9.027651	-8.025853	0.013798	0.001275	0.013875	0.999851
535	3.625711	1.178065	8.812322	-3.625711	4.990363	0.000000	0.013741	0.001384	0.014992	0.999647
536	8.991173	2.270191	1.468720	-0.073104	-7.121502	-12.612055	0.013698	0.001407	0.012748	0.999704
537	9.993295	0.364042	0.000000	-2.696693	-4.037288	-10.318954	0.013694	0.001299	0.016906	0.999608
538	6.176196	0.953074	4.406161	4.363341	-1.542107	-14.905156	0.013652	0.001344	0.011826	0.999896
539	5.174074	0.953074	2.937441	6.986930	-1.542107	-17.198257	0.013636	0.001331	0.015022	0.999837
540	9.182562	0.224990	1.468720	-3.507426	6.532470	-8.025853	0.013596	0.001578	0.012380	0.999708
541	8.490112	1.178065	4.406161	1.238691	4.990363	-13.758605	0.013584	0.001403	0.013106	0.999773
542	7.251422	1.178065	1.468720	-7.251422	4.990363	0.000000	0.013566	0.001144	0.014769	0.999628
543	9.182562	2.859223	1.468720	-3.507426	-4.626321	-8.025853	0.013517	0.001845	0.014986	0.999661
544	5.748239	0.364042	2.937441	-3.316038	-4.037288	-3.439651	0.013487	0.001441	0.014204	0.999884
545	4.627833	-0.000000	5.874881	-6.249300	0.000000	2.293101	0.013460	0.001300	0.012119	0.999863
546	4.627833	1.178065	5.874881	-6.249300	4.990363	2.293101	0.013445	0.001313	0.012873	0.999766
547	3.625711	-0.000000	5.874881	-3.625711	0.000000	0.000000	0.013432	0.001555	0.014075	0.999895
548	7.060033	1.317117	4.406161	-3.817099	-5.579395	-4.586202	0.013396	0.001338	0.013518	0.999756
549	8.371828	1.542107	1.468720	-4.318160	0.953074	-5.732752	0.013372	0.001346	0.013344	0.999833
550	5.128894	1.542107	1.468720	-7.561094	0.953074	3.439651	0.013372	0.001414	0.013375	0.999879
551	5.483747	-0.000000	5.874881	9.109458	-0.000000	-20.637908	0.013367	0.001308	0.013400	0.999613
552	5.866523	0.728084	4.406161	2.240813	-8.074577	-11.465504	0.013323	0.001537	0.012806	0.999758
553	4.245056	1.178065	2.937441	0.619345	4.990363	-6.879303	0.013322	0.001596	0.011939	0.999947
554	1.120406	0.364042	8.812322	2.933262	-4.037288	-5.732752	0.013302	0.001469	0.015305	0.999746
555	4.126772	0.364042	4.406161	-4.937505	-4.037288	1.146550	0.013214	0.001315	0.013263	0.999892
556	5.984808	1.542107	5.874881	7.797663	0.953074	-19.491357	0.013174	0.001579	0.013287	0.999690
557	6.868645	0.728084	2.937441	-0.382776	-8.074577	-9.172403	0.013147	0.001411	0.011850	0.999801
558	8.799785	2.859223	2.937441	3.361219	-4.626321	-17.198257	0.013105	0.001428	0.014840	0.999674
559	4.245056	1.178065	5.874881	0.619345	4.990363	-6.879303	0.013085	0.001540	0.012833	0.999880
560	8.872889	-0.000000	0.000000	-5.629954	0.000000	-4.586202	0.013079	0.001404	0.011954	0.999829
561	1.384898	-0.000000	4.406161	-9.492234	0.000000	11.465504	0.013049	0.001175	0.011893	0.999892
562	1.311795	0.224990	4.406161	-0.501061	6.532470	-1.146550	0.013032	0.001287	0.014123	0.999927
563	4.864402	0.000000	5.874881	4.864402	0.000000	-13.758605	0.013023	0.001530	0.013201	0.999866
564	5.365462	0.814023	1.468720	3.552607	9.027651	-12.612055	0.013021	0.001102	0.012627	0.999806
565	8.180440	2.131139	4.406161	-0.883837	3.448256	-10.318954	0.013020	0.001540	0.013465	0.999811
566	2.313916	0.224990	1.468720	-3.124650	6.532470	1.146550	0.013003	0.000983	0.015094	0.999966
567	8.490112	1.178065	1.468720	1.238691	4.990363	-13.758605	0.012923	0.001779	0.012940	0.999823
568	6.249300	1.906149	1.468720	-4.627833	-3.084214	-2.293101	0.012922	0.001444	0.011458	0.999914
569	10.111580	-0.000000	1.468720	2.860158	0.000000	-18.344807	0.012910	0.001676	0.016404	0.999695
570	5.939627	0.953074	4.406161	-6.750361	-1.542107	1.146550	0.012906	0.001397	0.012741	0.999827
571	9.182562	2.859223	2.937441	-3.507426	-4.626321	-8.025853	0.012876	0.001701	0.013844	0.999689
572	3.625711	-0.000000	4.406161	-3.625711	0.000000	0.000000	0.012873	0.001092	0.012160	0.999947
573	4.627833	1.178065	1.468720	-6.249300	4.990363	2.293101	0.012870	0.001178	0.011634	0.999919
574	6.249300	1.178065	0.000000	-4.627833	4.990363	-2.293101	0.012775	0.001319	0.015084	0.999830
575	6.176196	0.953074	7.343601	4.363341	-1.542107	-14.905156	0.012754	0.001498	0.012947	0.999795
576	2.313916	0.224990	8.812322	-3.124650	6.532470	1.146550	0.012684	0.001441	0.014205	0.999646
577	5.939627	0.953074	0.000000	-6.750361	-1.542107	1.146550	0.012664	0.001429	0.010839	0.999920
578	5.438566	0.589032	5.874881	-5.438566	2.495181	0.000000	0.012651	0.001501	0.012023	0.999851
579	3.242934	0.728084	5.874881	3.242934	-8.074577	-9.172403	0.012624	0.001476	0.012881	0.999779
580	7.561094	2.131139	0.000000	-5.128894	3.448256	-3.439651	0.012622	0.001522	0.012309	0.999845
581	4.864402	0.728084	1.468720	4.864402	-8.074577	-13.758605	0.012583	0.000977	0.012470	0.999855
582	3.625711	0.728084	7.343601	-3.625711	-8.074577	0.000000	0.012582	0.001228	0.013273	0.999629
583	6.941749	2.131139	1.468720	-9.373950	3.448256	3.439651	0.012565	0.000994	0.012212	0.999649
584	5.128894	0.364042	5.874881	-7.561094	-4.037288	3.439651	0.012522	0.001479	0.010647	0.999802
585	8.563216	2.131139	1.468720	-7.752483	3.448256	-1.146550	0.012517	0.001706	0.013182	0.999603
586	0.382776	-0.000000	7.343601	-6.868645	0.000000	9.172403	0.012481	0.001132	0.014600	0.999782
587	2.313916	0.224990	2.937441	-3.124650	6.532470	1.146550	0.012451	0.001258	0.010510	0.999969
588	9.373950	0.364042	0.000000	-6.941749	-4.037288	-3.439651	0.012428	0.001642	0.013770	0.999573
589	4.746117	0.814023	2.937441	-0.692449	9.027651	-5.732752	0.012399	0.001178	0.009954	0.999899
590	3.124650	0.814023	2.937441	-2.313916	9.027651	-1.146550	0.012376	0.001386	0.010257	0.999932
591	2.195632	0.589032	1.468720	-8.681501	2.495181	9.172403	0.012365	0.000893	0.014533	0.999952
592	7.178318	0.224990	4.406161	1.739752	6.532470	-12.612055	0.012364	0.001531	0.011063	0.999837

593	7.989051	0.814023	0.000000	2.550485	9.027651	-14.905156	0.012363	0.001239	0.011235	0.999707
594	3.552607	0.953074	8.812322	5.365462	-1.542107	-12.612055	0.012330	0.001466	0.012798	0.999772
595	7.870767	1.906149	5.874881	-3.006365	-3.084214	-6.879303	0.012305	0.001337	0.012954	0.999787
596	2.122528	0.364042	8.812322	0.309673	-4.037288	-3.439651	0.012277	0.002014	0.011554	0.999868
597	4.053668	0.589032	8.812322	4.053668	2.495181	-11.465504	0.012259	0.001684	0.012683	0.999796
598	5.556851	0.224990	4.406161	0.118284	6.532470	-8.025853	0.012195	0.001441	0.009873	0.999914
599	7.797663	0.953074	2.937441	5.984808	-1.542107	-19.491357	0.012145	0.001447	0.010933	0.999859
600	2.240813	0.728084	2.937441	5.866523	-8.074577	-11.465504	0.012110	0.000805	0.013649	0.999891
601	3.817099	0.589032	1.468720	-7.060033	2.495181	4.586202	0.012096	0.001413	0.013008	0.999939
602	6.868645	1.906149	7.343601	-0.382776	-3.084214	-9.172403	0.012041	0.001133	0.012090	0.999830
603	3.552607	0.953074	7.343601	5.365462	-1.542107	-12.612055	0.012038	0.001599	0.011857	0.999858
604	3.316038	0.953074	5.874881	-5.748239	-1.542107	3.439651	0.012030	0.001482	0.012856	0.999880
605	7.606275	1.542107	1.468720	9.419130	0.953074	-24.077559	0.012018	0.001092	0.011260	0.999708
606	9.683622	1.317117	0.000000	-4.819221	-5.579395	-6.879303	0.011990	0.001500	0.011873	0.999704
607	7.870767	1.906149	1.468720	-3.006365	-3.084214	-6.879303	0.011973	0.001370	0.009582	0.999924
608	8.371828	1.542107	4.406161	-4.318160	0.953074	-5.732752	0.011960	0.001665	0.012463	0.999818
609	7.369706	0.814023	5.874881	-1.694571	9.027651	-8.025853	0.011946	0.001448	0.011633	0.999577
610	3.935384	0.224990	0.000000	-1.503183	6.532470	-3.439651	0.011944	0.001205	0.020385	0.999886
611	7.296602	1.767097	1.468720	7.296602	7.485544	-20.637908	0.011931	0.001115	0.012607	0.999536
612	6.677257	1.317117	2.937441	3.051546	-5.579395	-13.758605	0.011926	0.001410	0.010362	0.999899
613	9.300846	1.317117	2.937441	2.049424	-5.579395	-16.051706	0.011913	0.001589	0.013376	0.999716
614	9.610519	0.364042	1.468720	4.171952	-4.037288	-19.491357	0.011894	0.001413	0.012219	0.999774
615	8.062155	2.495181	4.406161	-6.440688	-0.589032	-2.293101	0.011894	0.001489	0.012308	0.999752
616	8.918069	2.495181	2.937441	8.918069	-0.589032	-25.224110	0.011821	0.001430	0.012945	0.999483
617	4.554729	0.224990	2.937441	2.741873	6.532470	-10.318954	0.011789	0.001162	0.012662	0.999908
618	2.004244	-0.000000	4.406161	-5.247178	0.000000	4.586202	0.011781	0.001153	0.011077	0.999961
619	5.556851	0.224990	1.468720	0.118284	6.532470	-8.025853	0.011742	0.001175	0.008847	0.999955
620	4.864402	1.178065	2.937441	4.864402	4.990363	-13.758605	0.011738	0.001453	0.013252	0.999888
621	3.862280	1.178065	4.406161	7.487991	4.990363	-16.051706	0.011731	0.001483	0.011063	0.999862
622	3.006365	0.728084	0.000000	-7.870767	-8.074577	6.879303	0.011728	0.000777	0.009951	0.999940
623	9.182562	0.224990	4.406161	-3.507426	6.532470	-8.025853	0.011675	0.001247	0.011829	0.999674
624	7.679379	1.767097	1.468720	0.427957	7.485544	-11.465504	0.011638	0.001311	0.010763	0.999836
625	9.801907	0.224990	0.000000	0.737630	6.532470	-14.905156	0.011588	0.001154	0.012209	0.999734
626	4.171952	0.953074	1.468720	9.610519	-1.542107	-19.491357	0.011568	0.001175	0.009003	0.999936
627	6.795541	0.953074	2.937441	8.608397	-1.542107	-21.784458	0.011492	0.001274	0.010973	0.999799
628	6.750361	0.364042	0.000000	-5.939627	-4.037288	-1.146550	0.011447	0.001206	0.010827	0.999892
629	9.492234	1.178065	1.468720	-1.384898	4.990363	-11.465504	0.011444	0.001485	0.013258	0.999764
630	9.373950	0.364042	2.937441	-6.941749	-4.037288	-3.439651	0.011432	0.001479	0.011955	0.999644
631	8.062155	2.495181	2.937441	-6.440688	-0.589032	-2.293101	0.011427	0.001535	0.009995	0.999858
632	8.062155	0.589032	2.937441	-6.440688	2.495181	-2.293101	0.011410	0.001457	0.011109	0.999823
633	3.743995	0.814023	0.000000	1.931140	9.027651	-8.025853	0.011375	0.000901	0.009129	0.999960
634	5.128894	0.364042	0.000000	-7.561094	-4.037288	3.439651	0.011362	0.001235	0.010944	0.999912
635	7.870767	0.728084	2.937441	-3.006365	-8.074577	-6.879303	0.011358	0.001351	0.010442	0.999773
636	9.610519	0.364042	0.000000	4.171952	-4.037288	-19.491357	0.011267	0.001549	0.011229	0.999814
637	7.679379	1.317117	5.874881	0.427957	-5.579395	-11.465504	0.011255	0.001652	0.012178	0.999783
638	3.743995	0.364042	1.468720	1.931140	-4.037288	-8.025853	0.011155	0.001533	0.010458	0.999979
639	4.126772	0.364042	1.468720	-4.937505	-4.037288	1.146550	0.011152	0.001154	0.010051	0.999968
640	9.419130	0.953074	2.937441	7.606275	-1.542107	-24.077559	0.011151	0.001817	0.012439	0.999632
641	3.124650	0.364042	1.468720	-2.313916	-4.037288	-1.146550	0.011145	0.001925	0.012645	0.999976
642	4.126772	0.364042	2.937441	-4.937505	-4.037288	1.146550	0.011119	0.001850	0.010885	0.999949
643	3.743995	0.814023	1.468720	1.931140	9.027651	-8.025853	0.011105	0.001353	0.011263	0.999929
644	2.741873	0.814023	1.468720	4.554729	9.027651	-10.318954	0.011089	0.000854	0.010556	0.999951
645	4.746117	0.814023	4.406161	-0.692449	9.027651	-5.732752	0.011072	0.001365	0.010797	0.999840
646	7.251422	1.178065	4.406161	-7.251422	4.990363	0.000000	0.011064	0.001515	0.010518	0.999749
647	8.991173	0.364042	2.937441	-0.073104	-4.037288	-12.612055	0.011051	0.001641	0.012623	0.999827
648	9.182562	2.131139	0.000000	-3.507426	3.448256	-8.025853	0.011050	0.001373	0.012881	0.999798
649	4.937505	0.953074	4.406161	-4.126772	-1.542107	-1.146550	0.011027	0.001686	0.012541	0.999914
650	8.298724	2.495181	2.937441	4.673013	-0.589032	-18.344807	0.011019	0.001447	0.010905	0.999869
651	4.318160	0.953074	1.468720	-8.371828	-1.542107	5.732752	0.010995	0.001201	0.010384	0.999936
652	9.728803	0.000000	0.000000	9.728803	0.000000	-27.517210	0.010984	0.000943	0.010666	0.999557
653	7.989051	1.542107	2.937441	2.550485	0.953074	-14.905156	0.010918	0.001367	0.008632	0.999942
654	4.937505	1.403055	0.000000	-4.126772	11.522833	-1.146550	0.010914	0.001015	0.006989	0.999883
655	4.627833	1.178065	4.406161	-6.249300	4.990363	2.293101	0.010910	0.001403	0.009923	0.999899
656	8.563216	2.131139	4.406161	-7.752483	3.448256	-1.146550	0.010899	0.001449	0.011141	0.999650
657	3.935384	0.224990	7.343601	-1.503183	6.532470	-3.439651	0.010888	0.001320	0.010400	0.999861
658	0.692449	0.224990	2.937441	-4.746117	6.532470	5.732752	0.010874	0.000972	0.011060	0.999973
659	5.174074	0.953074	0.000000	6.986930	-1.542107	-17.198257	0.010843	0.001196	0.007531	0.999969
660	3.935384	0.224990	4.406161	-1.503183	6.532470	-3.439651	0.010842	0.001373	0.008944	0.999950
661	7.178318	0.224990	0.000000	1.739752	6.532470	-12.612055	0.010838	0.001647	0.007444	0.999947

662	1.694571	0.224990	0.000000	-7.369706	6.532470	8.025853	0.010825	0.000737	0.008111	0.999992
663	4.673013	0.589032	1.468720	8.298724	2.495181	-18.344807	0.010823	0.001199	0.009369	0.999939
664	3.316038	0.224990	1.468720	-5.748239	6.532470	3.439651	0.010819	0.001105	0.010841	0.999956
665	9.109458	1.906149	0.000000	5.483747	-3.084214	-20.637908	0.010800	0.001980	0.010858	0.999823
666	4.746117	0.364042	8.812322	-0.692449	-4.037288	-5.732752	0.010796	0.001904	0.012211	0.999815
667	5.174074	0.953074	5.874881	6.986930	-1.542107	-17.198257	0.010775	0.001461	0.010391	0.999864
668	1.739752	0.364042	7.343601	7.178318	-4.037288	-12.612055	0.010734	0.001250	0.010552	0.999834
669	5.128894	0.814023	1.468720	-7.561094	9.027651	3.439651	0.010708	0.000921	0.009983	0.999777
670	5.556851	0.224990	2.937441	0.118284	6.532470	-8.025853	0.010707	0.001544	0.011475	0.999909
671	7.487991	1.178065	1.468720	3.862280	4.990363	-16.051706	0.010698	0.001566	0.009799	0.999903
672	8.799785	0.224990	0.000000	3.361219	6.532470	-17.198257	0.010648	0.001540	0.012206	0.999752
673	7.797663	2.131139	1.468720	5.984808	3.448256	-19.491357	0.010587	0.001469	0.011158	0.999838
674	7.060033	0.589032	5.874881	-3.817099	2.495181	-4.586202	0.010561	0.001454	0.009541	0.999900
675	7.606275	1.542107	4.406161	9.419130	0.953074	-24.077559	0.010528	0.001183	0.011110	0.999631
676	6.485869	1.906149	0.000000	6.485869	-3.084214	-18.344807	0.010507	0.001465	0.007848	0.999943
677	5.984808	1.542107	0.000000	7.797663	0.953074	-19.491357	0.010496	0.001214	0.015500	0.999785
678	4.245056	0.728084	0.000000	0.619345	-8.074577	-6.879303	0.010478	0.001183	0.008644	0.999966
679	5.174074	0.953074	4.406161	6.986930	-1.542107	-17.198257	0.010477	0.001488	0.011009	0.999886
680	3.316038	0.953074	2.937441	-5.748239	-1.542107	3.439651	0.010460	0.001398	0.010382	0.999966
681	6.941749	2.131139	4.406161	-9.373950	3.448256	3.439651	0.010390	0.001287	0.009903	0.999692
682	7.752483	0.364042	0.000000	-8.563216	-4.037288	1.146550	0.010367	0.001294	0.011304	0.999717
683	7.487991	2.356130	1.468720	3.862280	9.980726	-16.051706	0.010356	0.001260	0.011003	0.999580
684	8.872889	1.178065	1.468720	-5.629954	4.990363	-4.586202	0.010317	0.001415	0.008878	0.999854
685	6.941749	0.953074	0.000000	-9.373950	-1.542107	3.439651	0.010311	0.001220	0.009536	0.999836
686	1.311795	0.224990	2.937441	-0.501061	6.532470	-1.146550	0.010288	0.001137	0.007949	0.999989
687	4.937505	0.224990	0.000000	-4.126772	6.532470	-1.146550	0.010284	0.001245	0.007556	0.999969
688	1.384898	-0.000000	5.874881	-9.492234	0.000000	11.465504	0.010263	0.001317	0.009395	0.999883
689	7.060033	1.767097	0.000000	-3.817099	7.485544	-4.586202	0.010258	0.001502	0.009053	0.999882
690	9.993295	0.814023	1.468720	-2.696693	9.027651	-10.318954	0.010245	0.001082	0.009551	0.999645
691	2.550485	0.224990	4.406161	7.989051	6.532470	-14.905156	0.010244	0.001247	0.010173	0.999875
692	8.107336	-0.000000	0.000000	8.107336	-0.000000	-22.931009	0.010239	0.002036	0.010221	0.999825
693	5.365462	0.814023	4.406161	3.552607	9.027651	-12.612055	0.010225	0.001230	0.010807	0.999777
694	2.741873	0.814023	2.937441	4.554729	9.027651	-10.318954	0.010214	0.000834	0.007466	0.999960
695	8.991173	0.814023	0.000000	-0.073104	9.027651	-12.612055	0.010203	0.001327	0.010782	0.999686
696	1.238691	0.000000	1.468720	8.490112	-0.000000	-13.758605	0.010191	0.000811	0.005258	0.999997
697	2.505305	0.364042	0.000000	-6.558973	-4.037288	5.732752	0.010190	0.000859	0.006591	0.999994
698	4.673013	0.589032	4.406161	8.298724	2.495181	-18.344807	0.010189	0.001551	0.008104	0.999921
699	8.253543	-0.000000	0.000000	-9.875011	0.000000	2.293101	0.010159	0.000870	0.009851	0.999723
700	6.750361	0.364042	5.874881	-5.939627	-4.037288	-1.146550	0.010142	0.001583	0.009384	0.999853
701	6.868645	0.728084	0.000000	-0.382776	-8.074577	-9.172403	0.010138	0.001510	0.010952	0.999857
702	7.369706	2.270191	5.874881	-1.694571	-7.121502	-8.025853	0.010126	0.001620	0.010036	0.999794
703	8.681501	1.767097	2.937441	-2.195632	7.485544	-9.172403	0.010112	0.001325	0.010496	0.999768
704	2.240813	0.728084	0.000000	5.866523	-8.074577	-11.465504	0.010111	0.000933	0.011559	0.999970
705	5.128894	1.542107	4.406161	-7.561094	0.953074	3.439651	0.010055	0.001485	0.010069	0.999891
706	7.251422	1.906149	4.406161	-7.251422	-3.084214	0.000000	0.010025	0.001609	0.009564	0.999832
707	2.049424	0.589032	0.000000	9.300846	2.495181	-16.051706	0.009980	0.000660	0.006448	0.999993
708	4.318160	0.953074	4.406161	-8.371828	-1.542107	5.732752	0.009976	0.001465	0.009486	0.999903
709	9.419130	0.953074	1.468720	7.606275	-1.542107	-24.077559	0.009971	0.001747	0.010613	0.999752
710	8.180440	1.681159	1.468720	-0.883837	-9.616684	-10.318954	0.009971	0.001224	0.009858	0.999725
711	1.739752	0.364042	2.937441	7.178318	-4.037288	-12.612055	0.009930	0.001162	0.007897	0.999981
712	3.862280	-0.000000	5.874881	7.487991	-0.000000	-16.051706	0.009929	0.001474	0.010898	0.999873
713	5.365462	1.542107	0.000000	3.552607	0.953074	-12.612055	0.009923	0.001683	0.008872	0.999973
714	5.984808	0.364042	0.000000	7.797663	-4.037288	-19.491357	0.009908	0.001464	0.005780	0.999964
715	6.440688	0.589032	0.000000	-8.062155	2.495181	2.293101	0.009901	0.001429	0.009543	0.999896
716	5.174074	0.224990	2.937441	6.986930	6.532470	-17.198257	0.009888	0.001244	0.008709	0.999900
717	8.180440	1.681159	4.406161	-0.883837	-9.616684	-10.318954	0.009882	0.001313	0.010894	0.999576
718	8.253543	-0.000000	2.937441	-9.875011	0.000000	2.293101	0.009859	0.000980	0.011113	0.999599
719	6.558973	1.681159	2.937441	-2.505305	-9.616684	-5.732752	0.009839	0.001010	0.009908	0.999774
720	3.051546	0.589032	2.937441	6.677257	2.495181	-13.758605	0.009836	0.001195	0.005535	0.999989
721	2.933262	0.224990	7.343601	1.120406	6.532470	-5.732752	0.009833	0.001662	0.009868	0.999889
722	2.696693	0.224990	1.468720	-9.993295	6.532470	10.318954	0.009832	0.000796	0.005164	0.999980
723	8.371828	0.364042	5.874881	-4.318160	-4.037288	-5.732752	0.009779	0.001369	0.011584	0.999769
724	2.122528	0.364042	0.000000	0.309673	-4.037288	-3.439651	0.009758	0.001764	0.009985	0.999995
725	3.743995	0.814023	5.874881	1.931140	9.027651	-8.025853	0.009754	0.001434	0.009770	0.999840
726	4.937505	0.224990	1.468720	-4.126772	6.532470	-1.146550	0.009707	0.001330	0.008234	0.999960
727	5.556851	0.224990	7.343601	0.118284	6.532470	-8.025853	0.009702	0.001605	0.009725	0.999854
728	3.817099	0.589032	4.406161	-7.060033	2.495181	4.586202	0.009654	0.001405	0.008427	0.999948
729	6.485869	-0.000000	1.468720	6.485869	-0.000000	-18.344807	0.009648	0.001424	0.008127	0.999949
730	4.673013	1.317117	1.468720	8.298724	-5.579395	-18.344807	0.009628	0.001222	0.010171	0.999888

731	4.554729	0.224990	1.468720	2.741873	6.532470	-10.318954	0.009627	0.001200	0.008941	0.999965
732	4.171952	0.953074	2.937441	9.610519	-1.542107	-19.491357	0.009590	0.001241	0.009778	0.999900
733	4.481625	0.000000	1.468720	11.733047	-0.000000	-22.931009	0.009575	0.001114	0.006202	0.999936
734	0.619345	0.000000	10.281042	4.245056	-0.000000	-6.879303	0.009569	0.002301	0.019757	0.999476
735	5.247178	0.728084	0.000000	-2.004244	-8.074577	-4.586202	0.009544	0.001136	0.009399	0.999935
736	4.746117	0.814023	7.343601	-0.692449	9.027651	-5.732752	0.009517	0.001664	0.009821	0.999753
737	1.503183	0.364042	5.874881	-3.935384	-4.037288	3.439651	0.009506	0.001674	0.008012	0.999965
738	4.937505	0.224990	7.343601	-4.126772	6.532470	-1.146550	0.009500	0.001549	0.009291	0.999841
739	7.797663	2.131139	4.406161	5.984808	3.448256	-19.491357	0.009457	0.001375	0.009070	0.999863
740	3.006365	0.728084	2.937441	-7.870767	-8.074577	6.879303	0.009423	0.000981	0.011119	0.999857
741	7.296602	1.767097	4.406161	7.296602	7.485544	-20.637908	0.009418	0.001313	0.010139	0.999605
742	9.875011	-0.000000	1.468720	-8.253543	0.000000	-2.293101	0.009418	0.001303	0.009477	0.999755
743	6.057912	1.767097	4.406161	-1.193510	7.485544	-6.879303	0.009363	0.001416	0.009591	0.999878
744	3.316038	0.953074	7.343601	-5.748239	-1.542107	3.439651	0.009356	0.001697	0.010443	0.999886
745	7.060033	1.767097	2.937441	-3.817099	7.485544	-4.586202	0.009355	0.001330	0.007084	0.999915
746	8.991173	2.720172	2.937441	-0.073104	5.943437	-12.612055	0.009310	0.001572	0.008946	0.999873
747	4.245056	1.178065	1.468720	0.619345	4.990363	-6.879303	0.009310	0.001277	0.011536	0.999962
748	5.247178	0.728084	7.343601	-2.004244	-8.074577	-4.586202	0.009303	0.001684	0.009570	0.999795
749	6.677257	0.589032	7.343601	3.051546	2.495181	-13.758605	0.009292	0.002085	0.007523	0.999932
750	6.440688	0.589032	2.937441	-8.062155	2.495181	2.293101	0.009290	0.001474	0.009074	0.999886
751	9.064277	0.589032	2.937441	-9.064277	2.495181	0.000000	0.009260	0.001428	0.009179	0.999714
752	7.060033	1.767097	1.468720	-3.817099	7.485544	-4.586202	0.009237	0.001537	0.009070	0.999876
753	5.365462	0.364042	5.874881	3.552607	-4.037288	-12.612055	0.009236	0.001604	0.008150	0.999939
754	9.610519	1.542107	0.000000	4.171952	0.953074	-19.491357	0.009232	0.002059	0.009298	0.999897
755	6.249300	0.728084	0.000000	-4.627833	-8.074577	-2.293101	0.009213	0.001279	0.007332	0.999927
756	3.124650	0.814023	7.343601	-2.313916	9.027651	-1.146550	0.009201	0.001466	0.008793	0.999824
757	4.673013	1.317117	0.000000	8.298724	-5.579395	-18.344807	0.009181	0.001172	0.011787	0.999863
758	4.171952	0.953074	4.406161	9.610519	-1.542107	-19.491357	0.009181	0.001418	0.007842	0.999909
759	8.681501	0.589032	0.000000	-2.195632	2.495181	-9.172403	0.009163	0.001633	0.009043	0.999932
760	8.681501	1.317117	2.937441	-2.195632	-5.579395	-9.172403	0.009151	0.001643	0.008447	0.999900
761	5.438566	0.139052	0.000000	-5.438566	-10.569758	0.000000	0.009144	0.001109	0.008390	0.999833
762	6.249300	-0.000000	7.343601	-4.627833	0.000000	-2.293101	0.009140	0.001521	0.007951	0.999923
763	6.795541	0.953074	5.874881	8.608397	-1.542107	-21.784458	0.009127	0.001585	0.009771	0.999761
764	8.608397	1.542107	2.937441	6.795541	0.953074	-21.784458	0.009109	0.001453	0.008387	0.999883
765	8.371828	0.364042	0.000000	-4.318160	-4.037288	-5.732752	0.009108	0.001661	0.007757	0.999933
766	2.505305	0.814023	2.937441	-6.558973	9.027651	5.732752	0.009081	0.001021	0.007258	0.999950
767	6.057912	1.317117	7.343601	-1.193510	-5.579395	-6.879303	0.009063	0.001328	0.009193	0.999878
768	2.814977	0.139052	0.000000	-4.436444	-10.569758	2.293101	0.009054	0.000816	0.009505	0.999952
769	3.124650	0.814023	5.874881	-2.313916	9.027651	-1.146550	0.009030	0.001610	0.009043	0.999872
770	9.064277	2.495181	1.468720	-9.064277	-0.589032	0.000000	0.009016	0.001868	0.008846	0.999760
771	8.872889	1.178065	4.406161	-5.629954	4.990363	-4.586202	0.009010	0.002043	0.009420	0.999798
772	7.487991	1.178065	2.937441	3.862280	4.990363	-16.051706	0.008985	0.001625	0.008927	0.999910
773	6.677257	1.767097	0.000000	3.051546	7.485544	-13.758605	0.008966	0.001532	0.008515	0.999914
774	9.683622	1.317117	2.937441	-4.819221	-5.579395	-6.879303	0.008890	0.003152	0.010688	0.999736
775	9.064277	0.589032	0.000000	-9.064277	2.495181	0.000000	0.008869	0.001498	0.008732	0.999768
776	8.991173	2.720172	0.000000	-0.073104	5.943437	-12.612055	0.008846	0.001865	0.010636	0.999838
777	6.868645	0.728084	5.874881	-0.382776	-8.074577	-9.172403	0.008841	0.001515	0.008544	0.999845
778	7.989051	0.814023	2.937441	2.550485	9.027651	-14.905156	0.008787	0.001677	0.008179	0.999822
779	8.253543	-0.000000	1.468720	-9.875011	0.000000	2.293101	0.008752	0.001258	0.008700	0.999777
780	6.485869	0.728084	0.000000	6.485869	-8.074577	-18.344807	0.008744	0.001231	0.009899	0.999801
781	4.864402	0.000000	8.812322	4.864402	0.000000	-13.758605	0.008728	0.001920	0.008782	0.999893
782	5.629954	-0.000000	2.937441	-8.872889	0.000000	4.586202	0.008710	0.001480	0.009032	0.999900
783	7.060033	0.589032	4.406161	-3.817099	2.495181	-4.586202	0.008698	0.001711	0.008107	0.999942
784	7.797663	0.953074	5.874881	5.984808	-1.542107	-19.491357	0.008685	0.001428	0.008790	0.999873
785	5.629954	0.728084	1.468720	-8.872889	-8.074577	4.586202	0.008682	0.001236	0.009997	0.999712
786	3.169831	0.953074	0.000000	12.234108	-1.542107	-21.784458	0.008670	0.000895	0.004138	0.999983
787	8.991173	2.720172	1.468720	-0.073104	5.943437	-12.612055	0.008657	0.001589	0.007104	0.999926
788	8.872889	-0.000000	2.937441	-5.629954	0.000000	-4.586202	0.008647	0.001635	0.010023	0.999865
789	0.692449	0.224990	0.000000	-4.746117	6.532470	5.732752	0.008640	0.000751	0.020129	0.999995
790	0.619345	0.000000	5.874881	4.245056	-0.000000	-6.879303	0.008637	0.001627	0.009931	0.999959
791	6.986930	2.270191	0.000000	5.174074	-7.121502	-17.198257	0.008625	0.001459	0.009312	0.999858
792	6.750361	0.364042	2.937441	-5.939627	-4.037288	-1.146550	0.008598	0.001646	0.006616	0.999952
793	4.864402	0.728084	4.406161	4.864402	-8.074577	-13.758605	0.008581	0.001324	0.008647	0.999883
794	8.371828	2.270191	1.468720	-4.318160	-7.121502	-5.732752	0.008546	0.001509	0.008548	0.999846
795	6.485869	-0.000000	4.406161	6.485869	-0.000000	-18.344807	0.008535	0.002027	0.008879	0.999915
796	6.868645	1.178065	5.874881	-0.382776	4.990363	-9.172403	0.008524	0.001621	0.007955	0.999927
797	5.174074	0.953074	8.812322	6.986930	-1.542107	-17.198257	0.008516	0.001687	0.009502	0.999799
798	7.679379	1.317117	0.000000	0.427957	-5.579395	-11.465504	0.008508	0.001347	0.007891	0.999944
799	9.492234	2.356130	2.937441	-1.384898	9.980726	-11.465504	0.008501	0.002903	0.010302	0.999488

800	2.313916	0.224990	4.406161	-3.124650	6.532470	1.146550	0.008497	0.001368	0.007785	0.999970
801	3.242934	-0.000000	8.812322	3.242934	-0.000000	-9.172403	0.008493	0.002214	0.009150	0.999918
802	5.174074	0.953074	7.343601	6.986930	-1.542107	-17.198257	0.008486	0.001808	0.009016	0.999863
803	5.438566	0.589032	0.000000	-5.438566	2.495181	0.000000	0.008477	0.001216	0.003779	0.999993
804	9.300846	1.317117	1.468720	2.049424	-5.579395	-16.051706	0.008417	0.001393	0.007603	0.999915
805	5.247178	0.728084	5.874881	-2.004244	-8.074577	-4.586202	0.008411	0.001468	0.009178	0.999858
806	4.436444	1.317117	8.812322	-2.814977	-5.579395	-2.293101	0.008399	0.001462	0.009673	0.999839
807	2.195632	0.589032	0.000000	-8.681501	2.495181	9.172403	0.008390	0.001038	0.003715	0.999998
808	2.550485	0.224990	7.343601	7.989051	6.532470	-14.905156	0.008389	0.001372	0.007678	0.999829
809	6.750361	1.542107	1.468720	-5.939627	0.953074	-1.146550	0.008362	0.001683	0.007415	0.999956
810	7.797663	1.681159	1.468720	5.984808	-9.616684	-19.491357	0.008361	0.001390	0.008926	0.999646
811	8.918069	0.589032	2.937441	8.918069	2.495181	-25.224110	0.008350	0.001241	0.009067	0.999741
812	4.363341	0.364042	5.874881	6.176196	-4.037288	-14.905156	0.008340	0.001728	0.007481	0.999936
813	4.937505	1.403055	2.937441	-4.126772	11.522833	-1.146550	0.008322	0.001031	0.009689	0.999699
814	7.487991	1.906149	5.874881	3.862280	-3.084214	-16.051706	0.008314	0.001542	0.008351	0.999909
815	4.318160	0.953074	2.937441	-8.371828	-1.542107	5.732752	0.008294	0.001657	0.008920	0.999939
816	1.384898	-0.000000	7.343601	-9.492234	0.000000	11.465504	0.008274	0.001209	0.010102	0.999789
817	3.552607	0.224990	0.000000	5.365462	6.532470	-12.612055	0.008258	0.001112	0.009973	0.999966
818	7.561094	0.953074	4.406161	-5.128894	-1.542107	-3.439651	0.008246	0.001663	0.006806	0.999948
819	10.184683	0.953074	0.000000	-6.131015	-1.542107	-5.732752	0.008236	0.002535	0.009469	0.999833
820	7.060033	1.767097	5.874881	-3.817099	7.485544	-4.586202	0.008233	0.001369	0.007678	0.999855
821	6.057912	1.767097	0.000000	-1.193510	7.485544	-6.879303	0.008227	0.001751	0.009236	0.999925
822	6.750361	0.364042	1.468720	-5.939627	-4.037288	-1.146550	0.008213	0.001663	0.009254	0.999917
823	6.795541	0.953074	7.343601	8.608397	-1.542107	-21.784458	0.008207	0.001579	0.008806	0.999755
824	2.623589	0.728084	8.812322	-1.002122	-8.074577	-2.293101	0.008203	0.001606	0.008262	0.999848
825	5.939627	0.953074	2.937441	-6.750361	-1.542107	1.146550	0.008184	0.001473	0.007623	0.999950
826	6.131015	1.542107	1.468720	-10.184683	0.953074	5.732752	0.008168	0.001287	0.008685	0.999855
827	8.180440	2.131139	1.468720	-0.883837	3.448256	-10.318954	0.008154	0.002654	0.008586	0.999939
828	7.752483	1.542107	0.000000	-8.563216	0.953074	1.146550	0.008147	0.001522	0.005962	0.999936
829	4.937505	0.224990	4.406161	-4.126772	6.532470	-1.146550	0.008140	0.001372	0.009116	0.999917
830	6.057912	1.767097	1.468720	-1.193510	7.485544	-6.879303	0.008110	0.001563	0.007685	0.999946
831	7.752483	0.364042	2.937441	-8.563216	-4.037288	1.146550	0.008109	0.001413	0.007554	0.999854
832	9.109458	1.178065	0.000000	5.483747	4.990363	-20.637908	0.008102	0.001632	0.008484	0.999867
833	6.986930	0.814023	0.000000	5.174074	9.027651	-17.198257	0.008091	0.001394	0.007863	0.999851
834	6.249300	1.906149	7.343601	-4.627833	-3.084214	-2.293101	0.008086	0.001702	0.008737	0.999887
835	6.986930	2.270191	2.937441	5.174074	-7.121502	-17.198257	0.008086	0.001534	0.007607	0.999889
836	5.128894	0.814023	4.406161	-7.561094	9.027651	3.439651	0.008082	0.001559	0.007927	0.999773
837	6.057912	0.139052	0.000000	-1.193510	-10.569758	-6.879303	0.008074	0.001195	0.006703	0.999914
838	5.128894	0.364042	8.812322	-7.561094	-4.037288	3.439651	0.008071	0.001492	0.007812	0.999810
839	6.986930	0.814023	2.937441	5.174074	9.027651	-17.198257	0.008068	0.001383	0.008812	0.999779
840	5.675135	1.317117	0.000000	5.675135	-5.579395	-16.051706	0.008063	0.001435	0.007727	0.999952
841	5.629954	-0.000000	0.000000	-8.872889	0.000000	4.586202	0.008058	0.001459	0.012939	0.999839
842	4.746117	0.814023	0.000000	-0.692449	9.027651	-5.732752	0.008058	0.001355	0.008639	0.999945
843	7.561094	0.953074	5.874881	-5.128894	-1.542107	-3.439651	0.008053	0.001598	0.008886	0.999892
844	7.251422	-0.000000	2.937441	-7.251422	0.000000	0.000000	0.008021	0.001918	0.008203	0.999915
845	4.864402	0.728084	7.343601	4.864402	-8.074577	-13.758605	0.008003	0.001253	0.008203	0.999806
846	7.870767	0.728084	4.406161	-3.006365	-8.074577	-6.879303	0.007986	0.001548	0.008282	0.999834
847	2.359097	0.364042	1.468720	11.423374	-4.037288	-19.491357	0.007971	0.000806	0.006225	0.999974
848	3.124650	0.814023	1.468720	-2.313916	9.027651	-1.146550	0.007970	0.001241	0.008027	0.999973
849	7.870767	0.728084	1.468720	-3.006365	-8.074577	-6.879303	0.007965	0.001616	0.007974	0.999880
850	6.249300	1.178065	2.937441	-4.627833	4.990363	-2.293101	0.007958	0.001531	0.006872	0.999957
851	4.982686	0.364042	1.468720	10.421252	-4.037288	-21.784458	0.007953	0.001000	0.008833	0.999869
852	0.382776	-0.000000	4.406161	-6.868645	0.000000	9.172403	0.007944	0.001324	0.007887	0.999978
853	5.174074	0.224990	1.468720	6.986930	6.532470	-17.198257	0.007933	0.001089	0.009365	0.999906
854	6.249300	-0.000000	1.468720	-4.627833	0.000000	-2.293101	0.007912	0.001606	0.007820	0.999968
855	6.485869	0.728084	2.937441	6.485869	-8.074577	-18.344807	0.007907	0.001270	0.007497	0.999862
856	7.870767	0.728084	5.874881	-3.006365	-8.074577	-6.879303	0.007895	0.001960	0.008689	0.999780
857	6.057912	1.767097	7.343601	-1.193510	7.485544	-6.879303	0.007885	0.001726	0.008531	0.999843
858	7.561094	0.953074	1.468720	-5.128894	-1.542107	-3.439651	0.007881	0.001745	0.007282	0.999954
859	6.558973	1.681159	1.468720	-2.505305	-9.616684	-5.732752	0.007864	0.001745	0.010397	0.999782
860	6.249300	1.178065	5.874881	-4.627833	4.990363	-2.293101	0.007861	0.001863	0.008137	0.999905
861	5.866523	1.906149	2.937441	2.240813	-3.084214	-11.465504	0.007841	0.001490	0.009457	0.999953
862	6.440688	0.589032	1.468720	-8.062155	2.495181	2.293101	0.007837	0.001386	0.006822	0.999944
863	8.062155	0.589032	5.874881	-6.440688	2.495181	-2.293101	0.007800	0.001705	0.008892	0.999843
864	6.986930	1.542107	7.343601	5.174074	0.953074	-17.198257	0.007800	0.002446	0.009816	0.999851
865	3.625711	0.728084	2.937441	-3.625711	-8.074577	0.000000	0.007793	0.001780	0.004805	0.999985
866	6.131015	0.364042	2.937441	-10.184683	-4.037288	5.732752	0.007789	0.001109	0.009799	0.999740
867	4.481625	0.000000	4.406161	11.733047	-0.000000	-22.931009	0.007784	0.001296	0.008876	0.999763
868	3.743995	1.092126	1.468720	1.931140	-12.111865	-8.025853	0.007775	0.001228	0.008528	0.999885

869	9.920191	0.589032	0.000000	6.294480	2.495181	-22.931009	0.007770	0.001628	0.010082	0.999806
870	7.060033	1.767097	4.406161	-3.817099	7.485544	-4.586202	0.007770	0.001619	0.007011	0.999901
871	4.363341	0.364042	0.000000	6.176196	-4.037288	-14.905156	0.007758	0.001502	0.010222	0.999959
872	0.382776	-0.000000	5.874881	-6.868645	0.000000	9.172403	0.007730	0.001411	0.006762	0.999970
873	6.604153	1.542107	0.000000	12.042719	0.953074	-26.370660	0.007719	0.001413	0.007514	0.999774
874	8.918069	2.495181	1.468720	8.918069	-0.589032	-25.224110	0.007696	0.001666	0.007616	0.999834
875	6.677257	0.139052	2.937441	3.051546	-10.569758	-13.758605	0.007693	0.001487	0.008822	0.999753
876	9.492234	2.356130	1.468720	-1.384898	9.980726	-11.465504	0.007685	0.001538	0.008824	0.999650
877	2.195632	0.589032	4.406161	-8.681501	2.495181	9.172403	0.007680	0.001600	0.007951	0.999951
878	7.251422	-0.000000	5.874881	-7.251422	0.000000	0.000000	0.007671	0.001855	0.007469	0.999897
879	2.741873	0.364042	5.874881	4.554729	-4.037288	-10.318954	0.007664	0.001713	0.006068	0.999975
880	4.673013	1.317117	2.937441	8.298724	-5.579395	-18.344807	0.007647	0.001514	0.005701	0.999956
881	2.814977	0.139052	1.468720	-4.436444	-10.569758	2.293101	0.007644	0.000842	0.006954	0.999967
882	8.062155	2.495181	5.874881	-6.440688	-0.589032	-2.293101	0.007619	0.002792	0.008065	0.999874
883	7.752483	0.814023	0.000000	-8.563216	9.027651	1.146550	0.007606	0.001138	0.008163	0.999589
884	5.866523	0.728084	7.343601	2.240813	-8.074577	-11.465504	0.007580	0.001663	0.007888	0.999845
885	7.251422	1.178065	0.000000	-7.251422	4.990363	0.000000	0.007546	0.001499	0.007154	0.999916
886	9.610519	0.814023	1.468720	4.171952	9.027651	-19.491357	0.007538	0.001343	0.007826	0.999744
887	4.746117	0.814023	5.874881	-0.692449	9.027651	-5.732752	0.007537	0.001685	0.006190	0.999928
888	7.752483	0.364042	5.874881	-8.563216	-4.037288	1.146550	0.007508	0.001441	0.008365	0.999748
889	5.748239	0.814023	2.937441	-3.316038	9.027651	-3.439651	0.007480	0.001266	0.008630	0.999881
890	5.629954	1.178065	4.406161	-8.872889	4.990363	4.586202	0.007478	0.001578	0.007489	0.999866
891	5.556851	1.681159	0.000000	0.118284	-9.616684	-8.025853	0.007468	0.001491	0.006344	0.999949
892	1.238691	0.000000	4.406161	8.490112	-0.000000	-13.758605	0.007453	0.001600	0.006339	0.999977
893	6.131015	0.364042	0.000000	-10.184683	-4.037288	5.732752	0.007451	0.001191	0.008357	0.999848
894	5.629954	-0.000000	1.468720	-8.872889	0.000000	4.586202	0.007450	0.001568	0.006856	0.999952
895	4.819221	1.317117	0.000000	-9.683622	-5.579395	6.879303	0.007415	0.000893	0.009132	0.999871
896	9.565338	2.859223	0.000000	-10.376072	-4.626321	1.146550	0.007412	0.001987	0.010331	0.999249
897	8.253543	1.906149	1.468720	-9.875011	-3.084214	2.293101	0.007405	0.001268	0.008337	0.999749
898	4.171952	0.953074	7.343601	9.610519	-1.542107	-19.491357	0.007390	0.001310	0.006862	0.999863
899	8.681501	1.767097	0.000000	-2.195632	7.485544	-9.172403	0.007384	0.001678	0.007377	0.999898
900	6.986930	0.364042	0.000000	5.174074	-4.037288	-17.198257	0.007377	0.001610	0.006403	0.999965
901	6.677257	0.139052	0.000000	3.051546	-10.569758	-13.758605	0.007373	0.001112	0.007051	0.999869
902	6.440688	1.317117	0.000000	-8.062155	-5.579395	2.293101	0.007371	0.001309	0.007233	0.999909
903	5.365462	0.814023	2.937441	3.552607	9.027651	-12.612055	0.007320	0.001202	0.006051	0.999946
904	1.812855	0.139052	2.937441	-1.812855	-10.569758	0.000000	0.007309	0.001051	0.005781	0.999979
905	6.131015	1.542107	4.406161	-10.184683	0.953074	5.732752	0.007298	0.001394	0.006710	0.999876
906	3.051546	0.589032	5.874881	6.677257	2.495181	-13.758605	0.007248	0.001675	0.007395	0.999952
907	5.438566	0.139052	2.937441	-5.438566	-10.569758	0.000000	0.007239	0.001288	0.005359	0.999912
908	4.318160	0.953074	0.000000	-8.371828	-1.542107	5.732752	0.007229	0.001526	0.009550	0.999951
909	4.627833	1.178065	8.812322	-6.249300	4.990363	2.293101	0.007227	0.003025	0.006963	0.999875
910	7.296602	1.317117	2.937441	7.296602	-5.579395	-20.637908	0.007226	0.001580	0.008910	0.999828
911	7.060033	0.139052	1.468720	-3.817099	-10.569758	-4.586202	0.007213	0.001653	0.008108	0.999779
912	2.741873	0.814023	5.874881	4.554729	9.027651	-10.318954	0.007193	0.001393	0.007548	0.999893
913	2.741873	0.364042	8.812322	4.554729	-4.037288	-10.318954	0.007193	0.001713	0.006835	0.999934
914	9.492234	0.728084	0.000000	-1.384898	-8.074577	-11.465504	0.007186	0.001561	0.008250	0.999835
915	2.004244	-0.000000	5.874881	-5.247178	0.000000	4.586202	0.007178	0.003751	0.006610	0.999977
916	3.124650	0.364042	7.343601	-2.313916	-4.037288	-1.146550	0.007177	0.001677	0.007007	0.999960
917	5.055790	1.317117	1.468720	1.430079	-5.579395	-9.172403	0.007171	0.001348	0.006458	0.999982
918	2.505305	0.814023	5.874881	-6.558973	9.027651	5.732752	0.007159	0.001188	0.007666	0.999848
919	3.242934	0.728084	8.812322	3.242934	-8.074577	-9.172403	0.007148	0.001819	0.007499	0.999848
920	5.174074	0.224990	4.406161	6.986930	6.532470	-17.198257	0.007135	0.001528	0.007061	0.999914
921	5.556851	1.403055	0.000000	0.118284	11.522833	-8.025853	0.007127	0.001227	0.006616	0.999899
922	1.503183	0.364042	0.000000	-3.935384	-4.037288	3.439651	0.007125	0.001456	0.015862	0.999991
923	6.131015	1.542107	2.937441	-10.184683	0.953074	5.732752	0.007105	0.001413	0.007110	0.999887
924	4.554729	0.224990	5.874881	2.741873	6.532470	-10.318954	0.007093	0.001813	0.007470	0.999939
925	1.384898	-0.000000	0.000000	-9.492234	0.000000	11.465504	0.007087	0.000536	0.002532	1.000000
926	5.174074	0.224990	5.874881	6.986930	6.532470	-17.198257	0.007081	0.001362	0.006812	0.999892
927	6.558973	0.224990	1.468720	-2.505305	6.532470	-5.732752	0.007078	0.001656	0.008753	0.999933
928	3.051546	0.589032	7.343601	6.677257	2.495181	-13.758605	0.007067	0.001879	0.007774	0.999922
929	5.055790	1.317117	4.406161	1.430079	-5.579395	-9.172403	0.007062	0.001572	0.005642	0.999978
930	6.249300	1.178065	7.343601	-4.627833	4.990363	-2.293101	0.007057	0.001835	0.007886	0.999886
931	1.384898	-0.000000	8.812322	-9.492234	0.000000	11.465504	0.007042	0.001566	0.009058	0.999753
932	8.991173	0.814023	2.937441	-0.073104	9.027651	-12.612055	0.007041	0.001606	0.006651	0.999867
933	4.627833	-0.000000	8.812322	-6.249300	0.000000	2.293101	0.007034	0.002095	0.007082	0.999913
934	3.743995	0.364042	4.406161	1.931140	-4.037288	-8.025853	0.007032	0.001773	0.005865	0.999986
935	9.419130	0.224990	0.000000	7.606275	6.532470	-24.077559	0.007025	0.001761	0.007423	0.999781
936	3.743995	0.814023	7.343601	1.931140	9.027651	-8.025853	0.007018	0.001741	0.008011	0.999847
937	5.365462	0.364042	8.812322	3.552607	-4.037288	-12.612055	0.007008	0.002754	0.004830	0.999963

938	4.008487	-0.000000	0.000000	-10.494356	0.000000	9.172403	0.006996	0.001197	0.007332	0.999958
939	5.629954	-0.000000	7.343601	-8.872889	0.000000	4.586202	0.006987	0.001724	0.006632	0.999880
940	9.373950	1.542107	2.937441	-6.941749	0.953074	-3.439651	0.006984	0.002089	0.006990	0.999902
941	8.608397	1.542107	0.000000	6.795541	0.953074	-21.784458	0.006981	0.001763	0.005468	0.999956
942	9.300846	1.767097	0.000000	2.049424	7.485544	-16.051706	0.006975	0.001500	0.004567	0.999955
943	5.748239	0.814023	1.468720	-3.316038	9.027651	-3.439651	0.006973	0.001325	0.003939	0.999979
944	2.550485	0.224990	2.937441	7.989051	6.532470	-14.905156	0.006965	0.001006	0.009432	0.999938
945	4.864402	1.178065	0.000000	4.864402	4.990363	-13.758605	0.006957	0.001290	0.005861	0.999984
946	6.176196	0.224990	1.468720	4.363341	6.532470	-14.905156	0.006955	0.001602	0.008767	0.999927
947	7.487991	2.356130	4.406161	3.862280	9.980726	-16.051706	0.006924	0.001313	0.006748	0.999796
948	6.677257	1.317117	4.406161	3.051546	-5.579395	-13.758605	0.006907	0.001658	0.006565	0.999951
949	4.436444	0.139052	2.937441	-2.814977	-10.569758	-2.293101	0.006902	0.001228	0.004691	0.999964
950	4.554729	1.403055	0.000000	2.741873	11.522833	-10.318954	0.006897	0.001371	0.000855	0.999999
951	8.726681	-0.000000	1.468720	12.352392	-0.000000	-29.810311	0.006885	0.001114	0.007675	0.999541
952	4.245056	1.178065	8.812322	0.619345	4.990363	-6.879303	0.006876	0.001700	0.007650	0.999920
953	7.679379	1.767097	4.406161	0.427957	7.485544	-11.465504	0.006868	0.001721	0.006042	0.999934
954	7.251422	0.728084	0.000000	-7.251422	-8.074577	0.000000	0.006868	0.001193	0.007795	0.999817
955	2.814977	0.139052	5.874881	-4.436444	-10.569758	2.293101	0.006863	0.001295	0.007395	0.999839
956	8.253543	-0.000000	5.874881	-9.875011	0.000000	2.293101	0.006854	0.001731	0.007702	0.999736
957	3.006365	-0.000000	1.468720	-7.870767	0.000000	6.879303	0.006844	0.001117	0.007231	0.999987
958	9.255665	-0.000000	0.000000	-12.498600	0.000000	4.586202	0.006839	0.001667	0.000481	0.999998
959	9.683622	0.589032	0.000000	-4.819221	2.495181	-6.879303	0.006838	0.002323	0.006562	0.999940
960	9.492234	2.356130	0.000000	-1.384898	9.980726	-11.465504	0.006815	0.001309	0.008026	0.999718
961	4.126772	0.364042	5.874881	-4.937505	-4.037288	1.146550	0.006813	0.001933	0.006497	0.999963
962	8.417009	0.953074	0.000000	10.229864	-1.542107	-26.370660	0.006807	0.001319	0.006899	0.999834
963	5.365462	0.814023	0.000000	3.552607	9.027651	-12.612055	0.006793	0.001209	0.009322	0.999902
964	0.382776	-0.000000	10.281042	-6.868645	0.000000	9.172403	0.006790	0.002572	0.010418	0.999771
965	8.490112	2.356130	1.468720	1.238691	9.980726	-13.758605	0.006776	0.001489	0.006580	0.999845
966	8.371828	1.542107	2.937441	-4.318160	0.953074	-5.732752	0.006771	0.001862	0.006886	0.999951
967	6.795541	0.953074	4.406161	8.608397	-1.542107	-21.784458	0.006764	0.001668	0.006553	0.999914
968	6.485869	0.728084	5.874881	6.485869	-8.074577	-18.344807	0.006761	0.001519	0.006634	0.999833
969	5.675135	1.767097	4.406161	5.675135	7.485544	-16.051706	0.006753	0.001902	0.006891	0.999907
970	3.361219	0.364042	2.937441	8.799785	-4.037288	-17.198257	0.006750	0.001573	0.006801	0.999965
971	3.935384	0.224990	5.874881	-1.503183	6.532470	-3.439651	0.006745	0.001616	0.007360	0.999951
972	7.487991	0.728084	2.937441	3.862280	-8.074577	-16.051706	0.006741	0.001766	0.006923	0.999900
973	6.440688	0.589032	5.874881	-8.062155	2.495181	2.293101	0.006738	0.002002	0.005329	0.999939
974	8.918069	2.495181	0.000000	8.918069	-0.589032	-25.224110	0.006736	0.001764	0.007322	0.999851
975	7.487991	2.356130	0.000000	3.862280	9.980726	-16.051706	0.006731	0.001432	0.007692	0.999802
976	4.363341	0.364042	8.812322	6.176196	-4.037288	-14.905156	0.006720	0.002734	0.005461	0.999936
977	9.255665	-0.000000	2.937441	-12.498600	0.000000	4.586202	0.006719	0.001642	0.002918	0.999914
978	1.238691	0.000000	7.343601	8.490112	-0.000000	-13.758605	0.006705	0.001577	0.006587	0.999933
979	4.126772	0.364042	7.343601	-4.937505	-4.037288	1.146550	0.006689	0.001728	0.005126	0.999968
980	5.320282	0.953074	1.468720	-10.995417	-1.542107	8.025853	0.006689	0.001473	0.005912	0.999934
981	6.677257	1.767097	5.874881	3.051546	7.485544	-13.758605	0.006683	0.001758	0.007201	0.999890
982	7.060033	1.317117	7.343601	-3.817099	-5.579395	-4.586202	0.006679	0.001718	0.009033	0.999833
983	5.866523	1.178065	5.874881	2.240813	4.990363	-11.465504	0.006679	0.001714	0.004881	0.999975
984	5.247178	0.728084	2.937441	-2.004244	-8.074577	-4.586202	0.006652	0.001957	0.006494	0.999959
985	3.242934	-0.000000	2.937441	3.242934	-0.000000	-9.172403	0.006642	0.002134	0.005927	0.999993
986	6.604153	1.542107	2.937441	12.042719	0.953074	-26.370660	0.006642	0.001433	0.006728	0.999783
987	6.941749	0.953074	2.937441	-9.373950	-1.542107	3.439651	0.006640	0.001429	0.006397	0.999912
988	7.752483	0.814023	2.937441	-8.563216	9.027651	1.146550	0.006640	0.001748	0.008241	0.999518
989	7.679379	0.139052	2.937441	0.427957	-10.569758	-11.465504	0.006640	0.001608	0.006530	0.999849
990	6.795541	0.953074	1.468720	8.608397	-1.542107	-21.784458	0.006639	0.001633	0.006635	0.999936
991	4.318160	0.224990	2.937441	-8.371828	6.532470	5.732752	0.006629	0.001530	0.003441	0.999983
992	3.743995	0.814023	4.406161	1.931140	9.027651	-8.025853	0.006624	0.001607	0.007817	0.999930
993	6.632076	-0.000000	0.000000	-11.496478	0.000000	6.879303	0.006612	0.001026	0.008235	0.999790
994	7.989051	2.270191	1.468720	2.550485	-7.121502	-14.905156	0.006610	0.001706	0.005522	0.999951
995	8.062155	0.589032	1.468720	-6.440688	2.495181	-2.293101	0.006606	0.001609	0.006833	0.999939
996	7.989051	0.814023	5.874881	2.550485	9.027651	-14.905156	0.006600	0.001726	0.007101	0.999814
997	9.373950	2.720172	0.000000	-6.941749	5.943437	-3.439651	0.006597	0.002236	0.006514	0.999860
998	8.799785	0.224990	2.937441	3.361219	6.532470	-17.198257	0.006585	0.001861	0.006698	0.999916
999	2.195632	0.589032	7.343601	-8.681501	2.495181	9.172403	0.006569	0.001794	0.006886	0.999909
1000	9.109458	1.178065	2.937441	5.483747	4.990363	-20.637908	0.006546	0.001916	0.005892	0.999928
1001	3.507426	0.364042	0.000000	-9.182562	-4.037288	8.025853	0.006546	0.001340	0.005408	0.999985
1002	7.487991	1.178065	4.406161	3.862280	4.990363	-16.051706	0.006542	0.001828	0.006380	0.999946
1003	7.487991	2.356130	2.937441	3.862280	9.980726	-16.051706	0.006541	0.001814	0.005174	0.999897
1004	2.505305	0.364042	2.937441	-6.558973	-4.037288	5.732752	0.006538	0.001559	0.009453	0.999970
1005	8.298724	0.139052	0.000000	4.673013	-10.569758	-18.344807	0.006514	0.001526	0.006848	0.999763
1006	3.006365	-0.000000	2.937441	-7.870767	0.000000	6.879303	0.006503	0.001798	0.010273	0.999957

1007	6.941749	2.131139	2.937441	-9.373950	3.448256	3.439651	0.006497	0.001684	0.006256	0.999896
1008	6.176196	0.224990	4.406161	4.363341	6.532470	-14.905156	0.006496	0.001764	0.006306	0.999945
1009	2.359097	0.364042	4.406161	11.423374	-4.037288	-19.491357	0.006480	0.001229	0.007100	0.999890
1010	1.739752	0.364042	4.406161	7.178318	-4.037288	-12.612055	0.006452	0.001473	0.006713	0.999974
1011	1.311795	0.224990	5.874881	-0.501061	6.532470	-1.146550	0.006441	0.001484	0.005901	0.999978
1012	6.986930	2.270191	5.874881	5.174074	-7.121502	-17.198257	0.006430	0.001768	0.005285	0.999923
1013	5.055790	1.317117	8.812322	1.430079	-5.579395	-9.172403	0.006416	0.001310	0.007191	0.999913
1014	7.296602	1.317117	5.874881	7.296602	-5.579395	-20.637908	0.006408	0.001854	0.006501	0.999868
1015	9.109458	0.728084	1.468720	5.483747	-8.074577	-20.637908	0.006401	0.001080	0.006051	0.999871
1016	5.556851	1.681159	1.468720	0.118284	-9.616684	-8.025853	0.006397	0.001358	0.005854	0.999954
1017	6.558973	1.681159	7.343601	-2.505305	-9.616684	-5.732752	0.006388	0.001209	0.006658	0.999805
1018	4.554729	1.403055	2.937441	2.741873	11.522833	-10.318954	0.006388	0.001492	0.005095	0.999936
1019	6.558973	1.681159	5.874881	-2.505305	-9.616684	-5.732752	0.006378	0.001325	0.006062	0.999872
1020	7.606275	2.270191	1.468720	9.419130	-7.121502	-24.077559	0.006374	0.001684	0.006658	0.999769
1021	6.677257	1.767097	2.937441	3.051546	7.485544	-13.758605	0.006357	0.002000	0.006580	0.999939
1022	9.492234	1.906149	2.937441	-1.384898	-3.084214	-11.465504	0.006355	0.001501	0.004836	0.999973
1023	8.107336	1.906149	1.468720	8.107336	-3.084214	-22.931009	0.006352	0.001916	0.005579	0.999934
1024	4.436444	0.139052	1.468720	-2.814977	-10.569758	-2.293101	0.006338	0.001005	0.006268	0.999951
1025	6.485869	1.178065	7.343601	6.485869	4.990363	-18.344807	0.006328	0.001922	0.006005	0.999906
1026	9.565338	2.131139	0.000000	-10.376072	3.448256	1.146550	0.006307	0.001682	0.007862	0.999640
1027	1.694571	0.224990	7.343601	-7.369706	6.532470	8.025853	0.006302	0.001480	0.007171	0.999880
1028	7.561094	2.131139	5.874881	-5.128894	3.448256	-3.439651	0.006302	0.001663	0.005312	0.999953
1029	10.038476	0.953074	0.000000	11.851331	-1.542107	-30.956862	0.006286	0.003185	0.002398	0.999949
1030	3.316038	0.224990	2.937441	-5.748239	6.532470	3.439651	0.006272	0.001789	0.005947	0.999980
1031	5.629954	-0.000000	4.406161	-8.872889	0.000000	4.586202	0.006251	0.001856	0.005548	0.999952
1032	3.935384	0.224990	2.937441	-1.503183	6.532470	-3.439651	0.006248	0.001675	0.005182	0.999988
1033	0.382776	-0.000000	1.468720	-6.868645	0.000000	9.172403	0.006239	0.000820	0.003781	0.999999
1034	7.487991	0.728084	0.000000	3.862280	-8.074577	-16.051706	0.006239	0.001480	0.008243	0.999878
1035	3.743995	0.814023	8.812322	1.931140	9.027651	-8.025853	0.006234	0.002015	0.006231	0.999873
1036	1.739752	0.364042	1.468720	7.178318	-4.037288	-12.612055	0.006228	0.001049	0.004235	0.999998
1037	8.371828	2.270191	4.406161	-4.318160	-7.121502	-5.732752	0.006227	0.001918	0.005587	0.999918
1038	5.629954	1.178065	1.468720	-8.872889	4.990363	4.586202	0.006221	0.001265	0.005096	0.999959
1039	1.931140	0.224990	0.000000	3.743995	6.532470	-8.025853	0.006204	0.000927	0.010424	0.999991
1040	7.797663	0.224990	0.000000	5.984808	6.532470	-19.491357	0.006203	0.001559	0.007664	0.999889
1041	6.057912	0.139052	5.874881	-1.193510	-10.569758	-6.879303	0.006202	0.001402	0.006543	0.999837
1042	9.373950	2.720172	2.937441	-6.941749	5.943437	-3.439651	0.006201	0.003037	0.004455	0.999928
1043	5.438566	0.139052	5.874881	-5.438566	-10.569758	0.000000	0.006198	0.001815	0.005395	0.999846
1044	5.174074	0.224990	0.000000	6.986930	6.532470	-17.198257	0.006190	0.001140	0.005502	0.999970
1045	3.743995	1.092126	4.406161	1.931140	-12.111865	-8.025853	0.006189	0.001325	0.006443	0.999867
1046	5.675135	1.317117	2.937441	5.675135	-5.579395	-16.051706	0.006184	0.001739	0.007126	0.999948
1047	1.503183	0.364042	8.812322	-3.935384	-4.037288	3.439651	0.006172	0.001834	0.005963	0.999957
1048	6.941749	0.953074	5.874881	-9.373950	-1.542107	3.439651	0.006171	0.001511	0.005871	0.999891
1049	9.064277	2.495181	2.937441	-9.064277	-0.589032	0.000000	0.006168	0.002022	0.006745	0.999849
1050	3.124650	0.814023	4.406161	-2.313916	9.027651	-1.146550	0.006158	0.001730	0.006538	0.999956
1051	9.419130	0.224990	1.468720	7.606275	6.532470	-24.077559	0.006144	0.001559	0.006665	0.999819
1052	8.726681	-0.000000	4.406161	12.352392	-0.000000	-29.810311	0.006143	0.001470	0.004445	0.999809
1053	4.819221	1.317117	2.937441	-9.683622	-5.579395	6.879303	0.006135	0.001276	0.004560	0.999957
1054	4.937505	0.224990	2.937441	-4.126772	6.532470	-1.146550	0.006122	0.001897	0.004937	0.999982
1055	2.814977	0.139052	4.406161	-4.436444	-10.569758	2.293101	0.006120	0.001327	0.003923	0.999971
1056	4.509548	0.364042	1.468720	-11.806151	-4.037288	10.318954	0.006119	0.001398	0.004487	0.999955
1057	7.296602	0.589032	4.406161	7.296602	2.495181	-20.637908	0.006111	0.001691	0.005681	0.999945
1058	4.627833	-0.000000	1.468720	-6.249300	0.000000	2.293101	0.006106	0.001469	0.006953	0.999981
1059	7.943871	2.131139	1.468720	-11.997539	3.448256	5.732752	0.006103	0.001409	0.005956	0.999743
1060	5.984808	0.814023	0.000000	7.797663	9.027651	-19.491357	0.006085	0.000977	0.005898	0.999896
1061	8.490112	1.906149	0.000000	1.238691	-3.084214	-13.758605	0.006072	0.002720	0.005134	0.999978
1062	7.251422	2.356130	0.000000	-7.251422	9.980726	0.000000	0.006062	0.001392	0.005552	0.999826
1063	2.387020	-0.000000	1.468720	-12.115823	0.000000	13.758605	0.006051	0.000973	0.002615	0.999995
1064	4.171952	0.953074	5.874881	9.610519	-1.542107	-19.491357	0.006050	0.001503	0.005067	0.999946
1065	4.318160	0.953074	5.874881	-8.371828	-1.542107	5.732752	0.006047	0.001877	0.006772	0.999930
1066	3.670891	0.589032	4.406161	10.922313	2.495181	-20.637908	0.006044	0.001475	0.006558	0.999910
1067	3.169831	0.953074	2.937441	12.234108	-1.542107	-21.784458	0.006021	0.001287	0.007257	0.999903
1068	6.677257	1.317117	1.468720	3.051546	-5.579395	-13.758605	0.006015	0.001995	0.006691	0.999963
1069	7.296602	1.767097	2.937441	7.296602	7.485544	-20.637908	0.006006	0.001349	0.006215	0.999874
1070	8.991173	2.270191	2.937441	-0.073104	-7.121502	-12.612055	0.006006	0.001862	0.005761	0.999935
1071	8.799785	1.681159	1.468720	3.361219	-9.616684	-17.198257	0.006000	0.001453	0.006594	0.999832
1072	9.875011	-0.000000	0.000000	-8.253543	0.000000	-2.293101	0.005984	0.002003	0.003978	0.999958
1073	7.251422	2.356130	2.937441	-7.251422	9.980726	0.000000	0.005980	0.001234	0.004096	0.999890
1074	2.387020	-0.000000	4.406161	-12.115823	0.000000	13.758605	0.005968	0.001297	0.002239	0.999989
1075	7.296602	1.317117	0.000000	7.296602	-5.579395	-20.637908	0.005964	0.001658	0.006179	0.999929

1076	9.419130	0.224990	2.937441	7.606275	6.532470	-24.077559	0.005963	0.001499	0.005002	0.999890
1077	9.683622	0.139052	0.000000	-4.819221	-10.569758	-6.879303	0.005961	0.001091	0.005241	0.999802
1078	6.558973	1.681159	4.406161	-2.505305	-9.616684	-5.732752	0.005961	0.001424	0.005521	0.999915
1079	5.939627	0.224990	0.000000	-6.750361	6.532470	1.146550	0.005952	0.001546	0.004785	0.999971
1080	7.178318	0.224990	2.937441	1.739752	6.532470	-12.612055	0.005939	0.001664	0.005662	0.999964
1081	5.174074	0.224990	7.343601	6.986930	6.532470	-17.198257	0.005917	0.001832	0.006448	0.999870
1082	3.862280	0.728084	0.000000	7.487991	-8.074577	-16.051706	0.005916	0.001171	0.004418	0.999983
1083	7.797663	1.681159	4.406161	5.984808	-9.616684	-19.491357	0.005896	0.001490	0.006080	0.999790
1084	9.920191	1.767097	0.000000	6.294480	7.485544	-22.931009	0.005896	0.002076	0.006547	0.999817
1085	3.507426	0.364042	1.468720	-9.182562	-4.037288	8.025853	0.005886	0.001015	0.007870	0.999962
1086	0.382776	-0.000000	2.937441	-6.868645	0.000000	9.172403	0.005873	0.001104	0.002859	0.999999
1087	5.483747	-0.000000	7.343601	9.109458	-0.000000	-20.637908	0.005834	0.002126	0.006099	0.999894
1088	9.419130	1.681159	0.000000	7.606275	-9.616684	-24.077559	0.005827	0.001691	0.006898	0.999576
1089	9.875011	1.906149	1.468720	-8.253543	-3.084214	-2.293101	0.005820	0.002189	0.004290	0.999939
1090	5.365462	0.364042	0.000000	3.552607	-4.037288	-12.612055	0.005817	0.001600	0.006606	0.999982
1091	4.627833	1.178065	7.343601	-6.249300	4.990363	2.293101	0.005816	0.002114	0.005135	0.999949
1092	3.862280	0.728084	4.406161	7.487991	-8.074577	-16.051706	0.005814	0.001645	0.005813	0.999931
1093	6.249300	1.906149	4.406161	-4.627833	-3.084214	-2.293101	0.005805	0.002015	0.003984	0.999985
1094	6.367584	0.814023	2.937441	0.929018	9.027651	-10.318954	0.005805	0.001803	0.003935	0.999975
1095	8.608397	2.270191	1.468720	6.795541	-7.121502	-21.784458	0.005801	0.001545	0.005530	0.999895
1096	4.864402	0.728084	2.937441	4.864402	-8.074577	-13.758605	0.005781	0.001214	0.005479	0.999965
1097	4.436444	0.139052	0.000000	-2.814977	-10.569758	-2.293101	0.005769	0.001465	0.004164	0.999981
1098	7.797663	0.224990	2.937441	5.984808	6.532470	-19.491357	0.005767	0.001861	0.006879	0.999897
1099	1.548363	0.224990	1.468720	10.612640	6.532470	-17.198257	0.005753	0.000781	0.002572	0.999997
1100	4.627833	0.728084	2.937441	-6.249300	-8.074577	2.293101	0.005740	0.001441	0.005089	0.999964
1101	4.746117	1.092126	1.468720	-0.692449	-12.111865	-5.732752	0.005739	0.001200	0.005005	0.999943
1102	8.608397	2.720172	1.468720	6.795541	5.943437	-21.784458	0.005722	0.001857	0.006333	0.999889
1103	4.819221	1.317117	1.468720	-9.683622	-5.579395	6.879303	0.005719	0.001354	0.005876	0.999942
1104	6.750361	1.542107	7.343601	-5.939627	0.953074	-1.146550	0.005711	0.001976	0.006845	0.999920
1105	6.440688	1.767097	2.937441	-8.062155	7.485544	2.293101	0.005697	0.001358	0.005439	0.999906
1106	8.180440	1.403055	1.468720	-0.883837	11.522833	-10.318954	0.005693	0.001956	0.005132	0.999862
1107	7.989051	2.270191	4.406161	2.550485	-7.121502	-14.905156	0.005688	0.002068	0.004933	0.999951
1108	6.485869	-0.000000	7.343601	6.485869	-0.000000	-18.344807	0.005687	0.002031	0.006382	0.999929
1109	3.625711	0.728084	5.874881	-3.625711	-8.074577	0.000000	0.005681	0.001896	0.004657	0.999968
1110	9.300846	1.317117	0.000000	2.049424	-5.579395	-16.051706	0.005677	0.002016	0.006697	0.999936
1111	6.249300	1.906149	5.874881	-4.627833	-3.084214	-2.293101	0.005665	0.002024	0.004381	0.999978
1112	9.728803	1.906149	0.000000	9.728803	-3.084214	-27.517210	0.005663	0.001577	0.006869	0.999778
1113	6.750361	0.364042	4.406161	-5.939627	-4.037288	-1.146550	0.005661	0.001736	0.005432	0.999961
1114	8.180440	1.403055	4.406161	-0.883837	11.522833	-10.318954	0.005660	0.001944	0.006854	0.999690
1115	6.632076	-0.000000	2.937441	-11.496478	0.000000	6.879303	0.005657	0.001418	0.005239	0.999898
1116	5.984808	1.542107	1.468720	7.797663	0.953074	-19.491357	0.005639	0.001893	0.004082	0.999984
1117	5.939627	1.681159	0.000000	-6.750361	-9.616684	1.146550	0.005628	0.001710	0.006041	0.999894
1118	3.552607	0.224990	2.937441	5.365462	6.532470	-12.612055	0.005626	0.001603	0.006907	0.999973
1119	4.171952	0.224990	2.937441	9.610519	6.532470	-19.491357	0.005625	0.001288	0.002907	0.999984
1120	2.240813	0.728084	5.874881	5.866523	-8.074577	-11.465504	0.005619	0.001313	0.005535	0.999948
1121	9.182562	1.681159	0.000000	-3.507426	-9.616684	-8.025853	0.005605	0.001813	0.005434	0.999877
1122	9.683622	1.317117	1.468720	-4.819221	-5.579395	-6.879303	0.005604	0.001887	0.005409	0.999937
1123	4.864402	0.000000	0.000000	4.864402	0.000000	-13.758605	0.005572	0.003480	0.001387	0.999999
1124	9.064277	1.317117	2.937441	-9.064277	-5.579395	0.000000	0.005563	0.001379	0.005861	0.999826
1125	4.053668	0.139052	2.937441	4.053668	-10.569758	-11.465504	0.005562	0.001529	0.004713	0.999964
1126	4.363341	0.364042	2.937441	6.176196	-4.037288	-14.905156	0.005561	0.001882	0.004770	0.999987
1127	6.941749	0.953074	4.406161	-9.373950	-1.542107	3.439651	0.005547	0.001589	0.004981	0.999936
1128	3.552607	0.224990	5.874881	5.365462	6.532470	-12.612055	0.005538	0.001874	0.005480	0.999961
1129	6.485869	1.906149	5.874881	6.485869	-3.084214	-18.344807	0.005537	0.002062	0.006037	0.999939
1130	2.933262	0.224990	8.812322	1.120406	6.532470	-5.732752	0.005533	0.001553	0.005631	0.999949
1131	9.920191	1.317117	1.468720	6.294480	-5.579395	-22.931009	0.005531	0.001535	0.006517	0.999876
1132	7.105214	1.178065	2.937441	10.730925	4.990363	-25.224110	0.005530	0.001721	0.006166	0.999815
1133	8.298724	1.767097	0.000000	4.673013	7.485544	-18.344807	0.005530	0.002284	0.004841	0.999948
1134	8.608397	0.814023	4.406161	6.795541	9.027651	-21.784458	0.005524	0.001888	0.005197	0.999825
1135	3.124650	0.814023	8.812322	-2.313916	9.027651	-1.146550	0.005522	0.001523	0.006420	0.999869
1136	8.298724	0.589032	2.937441	4.673013	2.495181	-18.344807	0.005518	0.001795	0.005322	0.999968
1137	4.509548	0.364042	4.406161	-11.806151	-4.037288	10.318954	0.005517	0.001403	0.005276	0.999888
1138	9.373950	2.720172	1.468720	-6.941749	5.943437	-3.439651	0.005513	0.002097	0.005569	0.999895
1139	6.057912	0.139052	2.937441	-1.193510	-10.569758	-6.879303	0.005510	0.001581	0.004198	0.999958
1140	5.866523	1.178065	2.937441	2.240813	4.990363	-11.465504	0.005508	0.002018	0.004975	0.999984
1141	7.561094	0.224990	2.937441	-5.128894	6.532470	-3.439651	0.005505	0.002038	0.004385	0.999966
1142	7.296602	0.589032	0.000000	7.296602	2.495181	-20.637908	0.005498	0.001998	0.003784	0.999982
1143	5.984808	0.814023	2.937441	7.797663	9.027651	-19.491357	0.005491	0.001488	0.004282	0.999932
1144	8.608397	2.270191	4.406161	6.795541	-7.121502	-21.784458	0.005488	0.001777	0.005782	0.999859

1145	1.931140	0.224990	5.874881	3.743995	6.532470	-8.025853	0.005485	0.001741	0.005149	0.999978
1146	6.941749	0.953074	1.468720	-9.373950	-1.542107	3.439651	0.005484	0.001590	0.005711	0.999938
1147	0.236569	0.000000	4.406161	11.113701	-0.000000	-16.051706	0.005484	0.001065	0.003615	0.999985
1148	5.675135	0.589032	7.343601	5.675135	2.495181	-16.051706	0.005477	0.002047	0.005881	0.999949
1149	8.253543	-0.000000	4.406161	-9.875011	0.000000	2.293101	0.005446	0.001567	0.005800	0.999874
1150	5.748239	0.814023	7.343601	-3.316038	9.027651	-3.439651	0.005430	0.001364	0.004580	0.999927
1151	2.814977	0.139052	2.937441	-4.436444	-10.569758	2.293101	0.005422	0.001427	0.003460	0.999987
1152	8.107336	0.728084	0.000000	8.107336	-8.074577	-22.931009	0.005419	0.001519	0.005394	0.999865
1153	9.610519	0.814023	0.000000	4.171952	9.027651	-19.491357	0.005417	0.001403	0.005761	0.999865
1154	9.064277	1.317117	0.000000	-9.064277	-5.579395	0.000000	0.005405	0.001343	0.003838	0.999933
1155	4.481625	0.000000	7.343601	11.733047	-0.000000	-22.931009	0.005405	0.001778	0.004001	0.999907
1156	4.746117	0.814023	8.812322	-0.692449	9.027651	-5.732752	0.005400	0.002356	0.005014	0.999914
1157	7.442810	1.317117	1.468720	-10.685744	-5.579395	4.586202	0.005397	0.001768	0.005028	0.999869
1158	7.752483	1.542107	1.468720	-8.563216	0.953074	1.146550	0.005382	0.002035	0.004954	0.999954
1159	6.367584	0.814023	0.000000	0.929018	9.027651	-10.318954	0.005374	0.001917	0.005377	0.999961
1160	5.629954	-0.000000	5.874881	-8.872889	0.000000	4.586202	0.005367	0.001827	0.005855	0.999929
1161	4.673013	1.317117	4.406161	8.298724	-5.579395	-18.344807	0.005364	0.001577	0.005778	0.999939
1162	4.171952	0.224990	0.000000	9.610519	6.532470	-19.491357	0.005359	0.001096	0.002770	0.999990
1163	2.240813	0.728084	8.812322	5.866523	-8.074577	-11.465504	0.005359	0.001617	0.005268	0.999899
1164	8.107336	-0.000000	2.937441	8.107336	-0.000000	-22.931009	0.005347	0.001891	0.005311	0.999946
1165	5.748239	0.814023	5.874881	-3.316038	9.027651	-3.439651	0.005344	0.001303	0.004878	0.999937
1166	8.681501	0.139052	1.468720	-2.195632	-10.569758	-9.172403	0.005336	0.001568	0.004406	0.999915
1167	4.318160	0.953074	7.343601	-8.371828	-1.542107	5.732752	0.005335	0.002224	0.005495	0.999937
1168	3.316038	0.224990	5.874881	-5.748239	6.532470	3.439651	0.005320	0.001943	0.005412	0.999961
1169	4.746117	1.092126	0.000000	-0.692449	-12.111865	-5.732752	0.005315	0.001224	0.004865	0.999951
1170	7.487991	0.728084	5.874881	3.862280	-8.074577	-16.051706	0.005301	0.002025	0.005343	0.999915
1171	5.365462	0.814023	7.343601	3.552607	9.027651	-12.612055	0.005287	0.001565	0.004802	0.999922
1172	6.485869	1.906149	2.937441	6.485869	-3.084214	-18.344807	0.005286	0.001853	0.004756	0.999975
1173	4.819221	0.589032	0.000000	-9.683622	2.495181	6.879303	0.005280	0.001371	0.005368	0.999972
1174	7.752483	0.364042	1.468720	-8.563216	-4.037288	1.146550	0.005279	0.001443	0.003206	0.999976
1175	6.294480	0.589032	1.468720	9.920191	2.495181	-22.931009	0.005278	0.001786	0.004854	0.999955
1176	4.819221	1.317117	5.874881	-9.683622	-5.579395	6.879303	0.005278	0.001637	0.005577	0.999882
1177	6.795541	0.224990	0.000000	8.608397	6.532470	-21.784458	0.005259	0.001971	0.006995	0.999875
1178	8.298724	0.139052	2.937441	4.673013	-10.569758	-18.344807	0.005253	0.002237	0.004698	0.999873
1179	3.507426	0.364042	7.343601	-9.182562	-4.037288	8.025853	0.005252	0.001473	0.006007	0.999895
1180	7.561094	0.953074	0.000000	-5.128894	-1.542107	-3.439651	0.005245	0.002092	0.005842	0.999972
1181	8.681501	1.767097	1.468720	-2.195632	7.485544	-9.172403	0.005243	0.001919	0.005134	0.999949
1182	5.629954	0.728084	4.406161	-8.872889	-8.074577	4.586202	0.005240	0.001631	0.005406	0.999872
1183	6.558973	1.681159	0.000000	-2.505305	-9.616684	-5.732752	0.005240	0.001445	0.005969	0.999932
1184	9.492234	0.728084	2.937441	-1.384898	-8.074577	-11.465504	0.005217	0.001900	0.004441	0.999947
1185	9.064277	2.495181	0.000000	-9.064277	-0.589032	0.000000	0.005217	0.002603	0.005199	0.999919
1186	5.247178	0.728084	8.812322	-2.004244	-8.074577	-4.586202	0.005215	0.002012	0.007329	0.999841
1187	8.608397	2.720172	4.406161	6.795541	5.943437	-21.784458	0.005211	0.001662	0.006026	0.999876
1188	8.107336	0.728084	2.937441	8.107336	-8.074577	-22.931009	0.005205	0.001809	0.006076	0.999804
1189	5.174074	1.681159	0.000000	6.986930	-9.616684	-17.198257	0.005200	0.001251	0.004203	0.999958
1190	9.255665	-0.000000	1.468720	-12.498600	0.000000	4.586202	0.005176	0.002215	0.007191	0.999517
1191	5.748239	0.814023	4.406161	-3.316038	9.027651	-3.439651	0.005172	0.001857	0.004883	0.999952
1192	9.227742	0.364042	1.468720	11.040598	-4.037288	-28.663761	0.005166	0.001890	0.005775	0.999766
1193	6.249300	0.728084	2.937441	-4.627833	-8.074577	-2.293101	0.005154	0.001995	0.005430	0.999951
1194	5.320282	0.953074	2.937441	-10.995417	-1.542107	8.025853	0.005154	0.001909	0.006163	0.999913
1195	7.915948	2.495181	0.000000	11.541658	-0.589032	-27.517210	0.005153	0.001619	0.003843	0.999925
1196	5.174074	0.224990	8.812322	6.986930	6.532470	-17.198257	0.005135	0.002080	0.005901	0.999856
1197	6.485869	1.178065	4.406161	6.485869	4.990363	-18.344807	0.005128	0.002075	0.004594	0.999966
1198	8.799785	1.681159	4.406161	3.361219	-9.616684	-17.198257	0.005128	0.001257	0.005251	0.999869
1199	7.442810	1.317117	4.406161	-10.685744	-5.579395	4.586202	0.005121	0.001581	0.005711	0.999778
1200	8.417009	0.953074	2.937441	10.229864	-1.542107	-26.370660	0.005108	0.001680	0.004849	0.999907
1201	3.670891	0.589032	1.468720	10.922313	2.495181	-20.637908	0.005101	0.001260	0.004550	0.999980
1202	3.434323	0.139052	4.406161	-0.191388	-10.569758	-4.586202	0.005099	0.001507	0.005429	0.999953
1203	2.814977	0.139052	8.812322	-4.436444	-10.569758	2.293101	0.005097	0.001823	0.005360	0.999823
1204	9.801907	1.681159	1.468720	0.737630	-9.616684	-14.905156	0.005094	0.001661	0.005008	0.999898
1205	8.563216	1.681159	1.468720	-7.752483	-9.616684	-1.146550	0.005075	0.001885	0.006237	0.999697
1206	8.799785	0.953074	2.937441	3.361219	-1.542107	-17.198257	0.005070	0.002100	0.004264	0.999982
1207	3.862280	0.728084	2.937441	7.487991	-8.074577	-16.051706	0.005069	0.001701	0.002747	0.999989
1208	1.739752	0.364042	5.874881	7.178318	-4.037288	-12.612055	0.005055	0.001856	0.005052	0.999975
1209	3.316038	0.224990	4.406161	-5.748239	6.532470	3.439651	0.005041	0.001883	0.006025	0.999968
1210	3.625711	-0.000000	7.343601	-3.625711	0.000000	0.000000	0.005028	0.002136	0.004116	0.999987
1211	7.105214	1.178065	0.000000	10.730925	4.990363	-25.224110	0.005023	0.001571	0.005472	0.999876
1212	7.296602	0.589032	2.937441	7.296602	2.495181	-20.637908	0.005019	0.001972	0.004610	0.999969
1213	9.683622	1.767097	1.468720	-4.819221	7.485544	-6.879303	0.005018	0.001844	0.005271	0.999911

1214	7.105214	1.906149	2.937441	10.730925	-3.084214	-25.224110	0.005009	0.001429	0.005754	0.999868
1215	1.694571	0.224990	1.468720	-7.369706	6.532470	8.025853	0.004993	0.000870	0.001829	0.999999
1216	9.565338	0.953074	1.468720	-10.376072	-1.542107	1.146550	0.004993	0.001730	0.005083	0.999872
1217	6.440688	0.589032	7.343601	-8.062155	2.495181	2.293101	0.004989	0.002117	0.003690	0.999963
1218	5.556851	1.403055	2.937441	0.118284	11.522833	-8.025853	0.004984	0.001614	0.004042	0.999952
1219	8.872889	2.634233	1.468720	-5.629954	-11.158791	-4.586202	0.004978	0.002090	0.003121	0.999909
1220	7.797663	0.224990	1.468720	5.984808	6.532470	-19.491357	0.004973	0.001845	0.005078	0.999950
1221	8.681501	0.139052	4.406161	-2.195632	-10.569758	-9.172403	0.004971	0.001868	0.004406	0.999894
1222	4.819221	0.589032	5.874881	-9.683622	2.495181	6.879303	0.004960	0.001545	0.004856	0.999941
1223	6.750361	0.814023	0.000000	-5.939627	9.027651	-1.146550	0.004949	0.001436	0.003659	0.999966
1224	8.417009	0.953074	1.468720	10.229864	-1.542107	-26.370660	0.004949	0.001934	0.007049	0.999821
1225	5.939627	1.681159	2.937441	-6.750361	-9.616684	1.146550	0.004945	0.001688	0.005582	0.999888
1226	5.939627	0.953074	5.874881	-6.750361	-1.542107	1.146550	0.004934	0.002207	0.004038	0.999978
1227	4.126772	0.814023	1.468720	-4.937505	9.027651	1.146550	0.004931	0.001557	0.005282	0.999975
1228	8.918069	0.589032	0.000000	8.918069	2.495181	-25.224110	0.004910	0.002289	0.005430	0.999917
1229	5.556851	1.681159	5.874881	0.118284	-9.616684	-8.025853	0.004905	0.001587	0.005047	0.999933
1230	6.558973	0.224990	7.343601	-2.505305	6.532470	-5.732752	0.004900	0.002099	0.006246	0.999923
1231	4.937505	1.403055	5.874881	-4.126772	11.522833	-1.146550	0.004887	0.001541	0.004895	0.999863
1232	4.937505	1.403055	4.406161	-4.126772	11.522833	-1.146550	0.004875	0.001552	0.004839	0.999901
1233	3.817099	0.589032	7.343601	-7.060033	2.495181	4.586202	0.004866	0.002148	0.004873	0.999964
1234	2.741873	0.814023	8.812322	4.554729	9.027651	-10.318954	0.004859	0.001751	0.005001	0.999902
1235	5.320282	0.953074	0.000000	-10.995417	-1.542107	8.025853	0.004855	0.001579	0.003349	0.999980
1236	8.608397	0.814023	1.468720	6.795541	9.027651	-21.784458	0.004850	0.001591	0.004955	0.999873
1237	6.795541	0.224990	2.937441	8.608397	6.532470	-21.784458	0.004849	0.001876	0.004405	0.999941
1238	3.006365	0.728084	5.874881	-7.870767	-8.074577	6.879303	0.004849	0.001465	0.003721	0.999960
1239	3.316038	0.224990	8.812322	-5.748239	6.532470	3.439651	0.004845	0.002273	0.004393	0.999948
1240	5.556851	1.403055	5.874881	0.118284	11.522833	-8.025853	0.004836	0.001443	0.005427	0.999856
1241	8.253543	1.178065	0.000000	-9.875011	4.990363	2.293101	0.004831	0.001434	0.005032	0.999891
1242	5.438566	1.767097	2.937441	-5.438566	7.485544	0.000000	0.004798	0.001686	0.004779	0.999968
1243	8.253543	1.906149	4.406161	-9.875011	-3.084214	2.293101	0.004794	0.001636	0.004773	0.999897
1244	3.197754	0.589032	0.000000	-11.305090	2.495181	11.465504	0.004791	0.001202	0.005234	0.999980
1245	4.982686	0.364042	7.343601	10.421252	-4.037288	-21.784458	0.004777	0.001515	0.005152	0.999864
1246	5.793420	0.953074	1.468720	11.231986	-1.542107	-24.077559	0.004774	0.001708	0.005543	0.999926
1247	4.318160	0.953074	8.812322	-8.371828	-1.542107	5.732752	0.004763	0.002120	0.004775	0.999935
1248	2.696693	0.224990	4.406161	-9.993295	6.532470	10.318954	0.004757	0.001545	0.000169	1.000000
1249	8.062155	0.139052	1.468720	-6.440688	-10.569758	-2.293101	0.004756	0.001812	0.003485	0.999919
1250	5.939627	0.224990	7.343601	-6.750361	6.532470	1.146550	0.004753	0.001823	0.004720	0.999926
1251	4.363341	0.364042	1.468720	6.176196	-4.037288	-14.905156	0.004744	0.001742	0.007921	0.999972
1252	6.677257	0.139052	1.468720	3.051546	-10.569758	-13.758605	0.004739	0.001584	0.003218	0.999971
1253	1.931140	0.224990	8.812322	3.743995	6.532470	-8.025853	0.004738	0.001957	0.004024	0.999970
1254	4.864402	1.178065	5.874881	4.864402	4.990363	-13.758605	0.004738	0.002252	0.004647	0.999975
1255	6.750361	0.814023	2.937441	-5.939627	9.027651	-1.146550	0.004736	0.001750	0.004369	0.999942
1256	7.679379	0.139052	0.000000	0.427957	-10.569758	-11.465504	0.004733	0.002271	0.004708	0.999932
1257	5.984808	1.542107	4.406161	7.797663	0.953074	-19.491357	0.004719	0.002191	0.003827	0.999980
1258	7.752483	0.814023	5.874881	-8.563216	9.027651	1.146550	0.004709	0.001956	0.005096	0.999741
1259	7.752483	1.542107	2.937441	-8.563216	0.953074	1.146550	0.004706	0.002419	0.003891	0.999968
1260	1.548363	0.224990	4.406161	10.612640	6.532470	-17.198257	0.004699	0.001352	0.005196	0.999942
1261	9.109458	0.728084	4.406161	5.483747	-8.074577	-20.637908	0.004689	0.002728	0.004465	0.999914
1262	9.875011	1.178065	0.000000	-8.253543	4.990363	-2.293101	0.004683	0.001509	0.004185	0.999930
1263	1.311795	0.224990	8.812322	-0.501061	6.532470	-1.146550	0.004682	0.002035	0.004101	0.999976
1264	7.296602	1.767097	0.000000	7.296602	7.485544	-20.637908	0.004678	0.001940	0.004132	0.999952
1265	4.436444	0.139052	7.343601	-2.814977	-10.569758	-2.293101	0.004677	0.001954	0.006119	0.999836
1266	5.984808	0.364042	2.937441	7.797663	-4.037288	-19.491357	0.004676	0.001818	0.004007	0.999979
1267	4.053668	0.139052	0.000000	4.053668	-10.569758	-11.465504	0.004676	0.001527	0.000904	0.999999
1268	7.797663	0.224990	5.874881	5.984808	6.532470	-19.491357	0.004674	0.001906	0.005275	0.999915
1269	4.245056	0.728084	2.937441	0.619345	-8.074577	-6.879303	0.004666	0.002074	0.006651	0.999970
1270	4.171952	0.953074	8.812322	9.610519	-1.542107	-19.491357	0.004662	0.001812	0.004120	0.999933
1271	7.178318	1.403055	1.468720	1.739752	11.522833	-12.612055	0.004656	0.001555	0.002105	0.999981
1272	8.872889	2.356130	1.468720	-5.629954	9.980726	-4.586202	0.004649	0.002014	0.005783	0.999792
1273	2.049424	0.589032	1.468720	9.300846	2.495181	-16.051706	0.004649	0.001361	0.004364	0.999995
1274	4.673013	1.317117	5.874881	8.298724	-5.579395	-18.344807	0.004647	0.001650	0.005380	0.999927
1275	6.986930	0.814023	5.874881	5.174074	9.027651	-17.198257	0.004643	0.001757	0.005069	0.999892
1276	6.604153	1.542107	5.874881	12.042719	0.953074	-26.370660	0.004640	0.001518	0.004870	0.999828
1277	3.242934	0.728084	7.343601	3.242934	-8.074577	-9.172403	0.004639	0.002151	0.004668	0.999958
1278	8.872889	1.178065	0.000000	-5.629954	4.990363	-4.586202	0.004633	0.002067	0.003495	0.999978
1279	9.373950	0.364042	1.468720	-6.941749	-4.037288	-3.439651	0.004631	0.002258	0.005805	0.999922
1280	2.432201	0.139052	1.468720	2.432201	-10.569758	-6.879303	0.004624	0.001151	0.001506	0.999999
1281	5.984808	0.364042	5.874881	7.797663	-4.037288	-19.491357	0.004621	0.001773	0.003040	0.999980
1282	7.752483	1.542107	4.406161	-8.563216	0.953074	1.146550	0.004618	0.002107	0.003767	0.999966

1283	6.485869	1.906149	1.468720	6.485869	-3.084214	-18.344807	0.004613	0.001927	0.003272	0.999990
1284	4.673013	1.317117	7.343601	8.298724	-5.579395	-18.344807	0.004608	0.001632	0.005406	0.999900
1285	4.864402	0.728084	0.000000	4.864402	-8.074577	-13.758605	0.004600	0.001332	0.003273	0.999991
1286	9.373950	0.814023	1.468720	-6.941749	9.027651	-3.439651	0.004597	0.001097	0.004371	0.999878
1287	9.610519	2.720172	1.468720	4.171952	5.943437	-19.491357	0.004597	0.001855	0.004647	0.999952
1288	9.610519	2.720172	0.000000	4.171952	5.943437	-19.491357	0.004595	0.001662	0.004577	0.999955
1289	2.387020	-0.000000	7.343601	-12.115823	0.000000	13.758605	0.004593	0.001483	0.004273	0.999903
1290	6.677257	1.317117	5.874881	3.051546	-5.579395	-13.758605	0.004584	0.002159	0.003371	0.999984
1291	8.563216	0.953074	1.468720	-7.752483	-1.542107	-1.146550	0.004582	0.002128	0.003080	0.999982
1292	2.049424	0.589032	7.343601	9.300846	2.495181	-16.051706	0.004568	0.001823	0.002991	0.999980
1293	7.369706	0.814023	1.468720	-1.694571	9.027651	-8.025853	0.004568	0.002001	0.004500	0.999961
1294	7.943871	2.131139	4.406161	-11.997539	3.448256	5.732752	0.004558	0.001586	0.004812	0.999787
1295	1.548363	0.224990	2.937441	10.612640	6.532470	-17.198257	0.004537	0.001270	0.001662	0.999997
1296	8.417009	2.131139	4.406161	10.229864	3.448256	-26.370660	0.004534	0.001829	0.004874	0.999870
1297	5.675135	1.767097	1.468720	5.675135	7.485544	-16.051706	0.004533	0.001719	0.004987	0.999967
1298	7.606275	0.364042	0.000000	9.419130	-4.037288	-24.077559	0.004522	0.001566	0.004724	0.999940
1299	4.363341	0.814023	1.468720	6.176196	9.027651	-14.905156	0.004504	0.001648	0.007676	0.999927
1300	1.311795	0.224990	7.343601	-0.501061	6.532470	-1.146550	0.004504	0.001842	0.003032	0.999991
1301	8.563216	0.953074	4.406161	-7.752483	-1.542107	-1.146550	0.004501	0.001877	0.003425	0.999973
1302	6.176196	1.681159	0.000000	4.363341	-9.616684	-14.905156	0.004500	0.001504	0.003727	0.999971
1303	3.316038	0.224990	7.343601	-5.748239	6.532470	3.439651	0.004500	0.002130	0.004531	0.999960
1304	4.481625	0.000000	0.000000	11.733047	-0.000000	-22.931009	0.004495	0.001180	0.002569	0.999990
1305	7.989051	2.270191	2.937441	2.550485	-7.121502	-14.905156	0.004493	0.002037	0.005175	0.999953
1306	2.049424	0.589032	5.874881	9.300846	2.495181	-16.051706	0.004490	0.001640	0.004509	0.999970
1307	5.984808	0.814023	5.874881	7.797663	9.027651	-19.491357	0.004487	0.001606	0.003729	0.999917
1308	1.193510	0.139052	1.468720	-6.057912	-10.569758	6.879303	0.004484	0.001046	0.008858	0.999975
1309	6.558973	0.224990	4.406161	-2.505305	6.532470	-5.732752	0.004475	0.002153	0.004658	0.999973
1310	8.253543	1.178065	1.468720	-9.875011	4.990363	2.293101	0.004474	0.001567	0.006691	0.999801
1311	1.430079	0.139052	2.937441	5.055790	-10.569758	-9.172403	0.004470	0.001155	0.003256	0.999992
1312	0.236569	0.000000	7.343601	11.113701	-0.000000	-16.051706	0.004469	0.001470	0.002310	0.999982
1313	5.128894	0.364042	7.343601	-7.561094	-4.037288	3.439651	0.004468	0.002086	0.004092	0.999961
1314	5.866523	0.728084	2.937441	2.240813	-8.074577	-11.465504	0.004461	0.001975	0.002983	0.999990
1315	2.049424	0.589032	2.937441	9.300846	2.495181	-16.051706	0.004458	0.001326	0.003475	0.999994
1316	9.419130	2.859223	2.937441	7.606275	-4.626321	-24.077559	0.004451	0.002767	0.000206	1.000000
1317	3.316038	0.953074	8.812322	-5.748239	-1.542107	3.439651	0.004451	0.002132	0.005642	0.999954
1318	9.182562	1.681159	2.937441	-3.507426	-9.616684	-8.025853	0.004449	0.001918	0.003393	0.999947
1319	6.249300	1.178065	4.406161	-4.627833	4.990363	-2.293101	0.004440	0.002058	0.004498	0.999977
1320	4.746117	1.092126	2.937441	-0.692449	-12.111865	-5.732752	0.004440	0.001571	0.002290	0.999985
1321	6.485869	0.728084	1.468720	6.485869	-8.074577	-18.344807	0.004428	0.001998	0.002794	0.999983
1322	8.062155	0.139052	4.406161	-6.440688	-10.569758	-2.293101	0.004426	0.001949	0.004386	0.999836
1323	6.367584	0.814023	4.406161	0.929018	9.027651	-10.318954	0.004419	0.001816	0.003354	0.999978
1324	9.300846	0.139052	1.468720	2.049424	-10.569758	-16.051706	0.004410	0.001923	0.004410	0.999902
1325	9.419130	1.681159	2.937441	7.606275	-9.616684	-24.077559	0.004406	0.001354	0.005257	0.999728
1326	9.064277	1.317117	1.468720	-9.064277	-5.579395	0.000000	0.004404	0.001586	0.004561	0.999903
1327	8.872889	1.906149	4.406161	-5.629954	-3.084214	-4.586202	0.004403	0.002188	0.004202	0.999968
1328	6.249300	0.728084	5.874881	-4.627833	-8.074577	-2.293101	0.004391	0.002031	0.004869	0.999938
1329	5.939627	1.681159	5.874881	-6.750361	-9.616684	1.146550	0.004385	0.001801	0.004140	0.999902
1330	7.606275	0.364042	4.406161	9.419130	-4.037288	-24.077559	0.004376	0.001663	0.004579	0.999923
1331	6.131015	1.542107	0.000000	-10.184683	0.953074	5.732752	0.004368	0.001652	0.003987	0.999971
1332	7.679379	0.139052	1.468720	0.427957	-10.569758	-11.465504	0.004357	0.001515	0.003221	0.999967
1333	3.935384	0.224990	8.812322	-1.503183	6.532470	-3.439651	0.004350	0.001954	0.004945	0.999957
1334	6.440688	1.317117	5.874881	-8.062155	-5.579395	2.293101	0.004345	0.001867	0.004189	0.999944
1335	3.743995	1.092126	0.000000	1.931140	-12.111865	-8.025853	0.004345	0.001169	0.007109	0.999930
1336	7.752483	2.270191	0.000000	-8.563216	-7.121502	1.146550	0.004345	0.001524	0.005033	0.999896
1337	6.131015	0.364042	5.874881	-10.184683	-4.037288	5.732752	0.004340	0.001625	0.004657	0.999907
1338	8.918069	0.589032	1.468720	8.918069	2.495181	-25.224110	0.004339	0.002177	0.004357	0.999945
1339	7.105214	0.000000	0.000000	10.730925	-0.000000	-25.224110	0.004336	0.002046	0.002096	0.999988
1340	0.236569	0.000000	2.937441	11.113701	-0.000000	-16.051706	0.004328	0.001542	0.002383	0.999997
1341	5.675135	1.767097	7.343601	5.675135	7.485544	-16.051706	0.004316	0.002024	0.002867	0.999973
1342	5.556851	1.681159	7.343601	0.118284	-9.616684	-8.025853	0.004312	0.001648	0.004268	0.999937
1343	7.915948	2.495181	2.937441	11.541658	-0.589032	-27.517210	0.004312	0.002077	0.006134	0.999784
1344	7.989051	1.092126	2.937441	2.550485	-12.111865	-14.905156	0.004311	0.001804	0.002279	0.999962
1345	6.632076	1.178065	2.937441	-11.496478	4.990363	6.879303	0.004304	0.002000	0.003131	0.999945
1346	4.982686	0.364042	4.406161	10.421252	-4.037288	-21.784458	0.004304	0.001823	0.003627	0.999963
1347	3.743995	1.092126	5.874881	1.931140	-12.111865	-8.025853	0.004294	0.001686	0.004757	0.999895
1348	8.754604	0.364042	1.468720	-11.186805	-4.037288	3.439651	0.004290	0.001728	0.005750	0.999781
1349	5.320282	0.953074	4.406161	-10.995417	-1.542107	8.025853	0.004282	0.001679	0.003676	0.999960
1350	6.367584	1.092126	4.406161	0.929018	-12.111865	-10.318954	0.004272	0.001721	0.004631	0.999881
1351	4.554729	1.403055	1.468720	2.741873	11.522833	-10.318954	0.004271	0.001733	0.004516	0.999960

1352	2.359097	0.364042	2.937441	11.423374	-4.037288	-19.491357	0.004269	0.001447	0.006724	0.999944
1353	9.728803	1.178065	1.468720	9.728803	4.990363	-27.517210	0.004268	0.001529	0.005438	0.999824
1354	3.169831	0.953074	4.406161	12.234108	-1.542107	-21.784458	0.004261	0.001680	0.003545	0.999964
1355	8.872889	0.728084	0.000000	-5.629954	-8.074577	-4.586202	0.004261	0.002003	0.003807	0.999952
1356	8.062155	1.767097	4.406161	-6.440688	7.485544	-2.293101	0.004256	0.002018	0.002516	0.999976
1357	7.296602	1.317117	1.468720	7.296602	-5.579395	-20.637908	0.004254	0.002058	0.004058	0.999968
1358	3.862280	-0.000000	8.812322	7.487991	-0.000000	-16.051706	0.004231	0.001997	0.005116	0.999945
1359	2.860158	-0.000000	4.406161	10.111580	-0.000000	-18.344807	0.004228	0.001260	0.004901	0.999971
1360	4.008487	-0.000000	5.874881	-10.494356	0.000000	9.172403	0.004227	0.001907	0.003431	0.999970
1361	8.681501	1.767097	4.406161	-2.195632	7.485544	-9.172403	0.004213	0.002117	0.002486	0.999985
1362	3.006365	-0.000000	8.812322	-7.870767	0.000000	6.879303	0.004210	0.002145	0.003187	0.999978
1363	3.242934	0.728084	4.406161	3.242934	-8.074577	-9.172403	0.004209	0.002049	0.002838	0.999993
1364	4.126772	0.364042	8.812322	-4.937505	-4.037288	1.146550	0.004204	0.002207	0.004605	0.999964
1365	5.556851	1.681159	2.937441	0.118284	-9.616684	-8.025853	0.004203	0.001480	0.004227	0.999971
1366	8.563216	0.953074	0.000000	-7.752483	-1.542107	-1.146550	0.004202	0.001913	0.002971	0.999984
1367	9.610519	2.270191	1.468720	4.171952	-7.121502	-19.491357	0.004201	0.001895	0.005413	0.999920
1368	6.677257	0.139052	5.874881	3.051546	-10.569758	-13.758605	0.004200	0.001604	0.003749	0.999932
1369	8.991173	2.270191	0.000000	-0.073104	-7.121502	-12.612055	0.004199	0.002175	0.003939	0.999973
1370	8.417009	2.131139	0.000000	10.229864	3.448256	-26.370660	0.004196	0.001703	0.005148	0.999887
1371	4.819221	0.589032	8.812322	-9.683622	2.495181	6.879303	0.004190	0.001528	0.003597	0.999941
1372	9.728803	1.906149	1.468720	9.728803	-3.084214	-27.517210	0.004186	0.001755	0.003665	0.999935
1373	8.872889	0.728084	2.937441	-5.629954	-8.074577	-4.586202	0.004180	0.002073	0.003571	0.999953
1374	6.294480	0.589032	2.937441	9.920191	2.495181	-22.931009	0.004172	0.001777	0.004228	0.999960
1375	8.417009	0.224990	0.000000	10.229864	6.532470	-26.370660	0.004172	0.002025	0.000790	0.999996
1376	10.184683	0.224990	0.000000	-6.131015	6.532470	-5.732752	0.004171	0.002153	0.004397	0.999933
1377	6.367584	1.092126	1.468720	0.929018	-12.111865	-10.318954	0.004158	0.001581	0.003635	0.999948
1378	3.862280	1.178065	2.937441	7.487991	4.990363	-16.051706	0.004155	0.002007	0.003145	0.999992
1379	1.548363	0.224990	0.000000	10.612640	6.532470	-17.198257	0.004152	0.000933	0.005611	0.999993
1380	7.870767	1.906149	4.406161	-3.006365	-3.084214	-6.879303	0.004148	0.001929	0.002627	0.999993
1381	6.795541	2.131139	7.343601	8.608397	3.448256	-21.784458	0.004148	0.001781	0.004092	0.999936
1382	3.743995	1.092126	7.343601	1.931140	-12.111865	-8.025853	0.004144	0.001987	0.005240	0.999819
1383	4.864402	1.178065	7.343601	4.864402	4.990363	-13.758605	0.004137	0.002083	0.003351	0.999982
1384	6.057912	1.767097	5.874881	-1.193510	7.485544	-6.879303	0.004134	0.002236	0.004591	0.999965
1385	8.062155	1.317117	2.937441	-6.440688	-5.579395	-2.293101	0.004132	0.001994	0.004741	0.999951
1386	8.754604	0.364042	4.406161	-11.186805	-4.037288	3.439651	0.004131	0.002008	0.004235	0.999853
1387	3.552607	0.224990	8.812322	5.365462	6.532470	-12.612055	0.004130	0.002204	0.004102	0.999957
1388	7.060033	0.139052	7.343601	-3.817099	-10.569758	-4.586202	0.004130	0.002138	0.005046	0.999821
1389	5.866523	0.728084	5.874881	2.240813	-8.074577	-11.465504	0.004128	0.002208	0.004001	0.999969
1390	6.986930	0.364042	2.937441	5.174074	-4.037288	-17.198257	0.004116	0.001990	0.003881	0.999985
1391	3.051546	0.589032	8.812322	6.677257	2.495181	-13.758605	0.004115	0.002248	0.003984	0.999971
1392	2.359097	0.364042	0.000000	11.423374	-4.037288	-19.491357	0.004110	0.001071	0.006320	0.999981
1393	6.131015	1.542107	7.343601	-10.184683	0.953074	5.732752	0.004110	0.002150	0.004106	0.999924
1394	7.915948	0.589032	0.000000	11.541658	2.495181	-27.517210	0.004108	0.001866	0.001027	0.999995
1395	1.430079	0.139052	0.000000	5.055790	-10.569758	-9.172403	0.004107	0.000739	0.002761	0.999999
1396	3.817099	0.589032	8.812322	-7.060033	2.495181	4.586202	0.004104	0.002093	0.004291	0.999962
1397	0.692449	0.224990	5.874881	-4.746117	6.532470	5.732752	0.004103	0.002011	0.005165	0.999977
1398	5.438566	0.139052	1.468720	-5.438566	-10.569758	0.000000	0.004099	0.001314	0.003465	0.999969
1399	7.251422	0.728084	1.468720	-7.251422	-8.074577	0.000000	0.004096	0.001890	0.004020	0.999949
1400	6.750361	0.364042	7.343601	-5.939627	-4.037288	-1.146550	0.004085	0.001938	0.003186	0.999979
1401	7.251422	-0.000000	1.468720	-7.251422	0.000000	0.000000	0.004078	0.002119	0.002006	0.999995
1402	6.176196	1.681159	5.874881	4.363341	-9.616684	-14.905156	0.004071	0.001872	0.003021	0.999964
1403	0.619345	0.000000	2.937441	4.245056	-0.000000	-6.879303	0.004071	0.003039	0.004262	0.999998
1404	4.746117	1.092126	4.406161	-0.692449	-12.111865	-5.732752	0.004062	0.001780	0.003026	0.999965
1405	5.128894	0.814023	7.343601	-7.561094	9.027651	3.439651	0.004058	0.001917	0.004121	0.999890
1406	7.797663	0.224990	4.406161	5.984808	6.532470	-19.491357	0.004057	0.001996	0.002743	0.999981
1407	5.438566	1.317117	4.406161	-5.438566	-5.579395	0.000000	0.004056	0.001968	0.003443	0.999986
1408	8.872889	2.356130	0.000000	-5.629954	9.980726	-4.586202	0.004052	0.001968	0.003719	0.999916
1409	4.318160	0.224990	1.468720	-8.371828	6.532470	5.732752	0.004040	0.001606	0.001052	0.999999
1410	6.750361	1.542107	4.406161	-5.939627	0.953074	-1.146550	0.004036	0.002127	0.003506	0.999987
1411	7.487991	2.356130	5.874881	3.862280	9.980726	-16.051706	0.004033	0.001873	0.004358	0.999898
1412	7.487991	1.178065	5.874881	3.862280	4.990363	-16.051706	0.004031	0.002016	0.003469	0.999981
1413	1.812855	0.139052	1.468720	-1.812855	-10.569758	0.000000	0.004026	0.001153	0.002286	0.999999
1414	7.178318	1.681159	1.468720	1.739752	-9.616684	-12.612055	0.004025	0.002118	0.000864	0.999998
1415	5.438566	0.139052	7.343601	-5.438566	-10.569758	0.000000	0.004020	0.001558	0.001277	0.999989
1416	6.131015	0.364042	1.468720	-10.184683	-4.037288	5.732752	0.004018	0.001793	0.003653	0.999969
1417	8.298724	1.767097	2.937441	4.673013	7.485544	-18.344807	0.004017	0.001931	0.003255	0.999973
1418	2.933262	0.224990	2.937441	1.120406	6.532470	-5.732752	0.004015	0.001961	0.005570	0.999991
1419	1.548363	0.224990	5.874881	10.612640	6.532470	-17.198257	0.004014	0.001664	0.004548	0.999924
1420	8.253543	1.178065	2.937441	-9.875011	4.990363	2.293101	0.004010	0.001933	0.003594	0.999937

1421	7.870767	2.356130	0.000000	-3.006365	9.980726	-6.879303	0.004010	0.001891	0.002137	0.999985
1422	0.619345	0.000000	7.343601	4.245056	-0.000000	-6.879303	0.003995	0.002199	0.005006	0.999984
1423	3.817099	0.589032	0.000000	-7.060033	2.495181	4.586202	0.003991	0.001895	0.000864	1.000000
1424	5.438566	0.589032	4.406161	-5.438566	2.495181	0.000000	0.003989	0.001920	0.000257	1.000000
1425	8.563216	1.681159	4.406161	-7.752483	-9.616684	-1.146550	0.003989	0.001858	0.004800	0.999777
1426	5.675135	1.767097	2.937441	5.675135	7.485544	-16.051706	0.003982	0.001951	0.004567	0.999967
1427	6.367584	1.092126	2.937441	0.929018	-12.111865	-10.318954	0.003976	0.001884	0.004115	0.999924
1428	3.817099	0.589032	5.874881	-7.060033	2.495181	4.586202	0.003973	0.001888	0.003637	0.999986
1429	6.367584	1.092126	0.000000	0.929018	-12.111865	-10.318954	0.003969	0.001623	0.002243	0.999981
1430	7.989051	2.270191	5.874881	2.550485	-7.121502	-14.905156	0.003966	0.002368	0.003938	0.999963
1431	7.487991	0.728084	1.468720	3.862280	-8.074577	-16.051706	0.003962	0.001963	0.003968	0.999971
1432	7.561094	2.131139	2.937441	-5.128894	3.448256	-3.439651	0.003959	0.002850	0.000795	0.999999
1433	9.728803	3.084214	0.000000	9.728803	1.906149	-27.517210	0.003951	0.002490	0.004677	0.999900
1434	7.251422	0.728084	5.874881	-7.251422	-8.074577	0.000000	0.003949	0.001768	0.004502	0.999896
1435	6.440688	1.767097	0.000000	-8.062155	7.485544	2.293101	0.003946	0.001763	0.005680	0.999915
1436	6.632076	-0.000000	1.468720	-11.496478	0.000000	6.879303	0.003940	0.001794	0.001932	0.999988
1437	8.253543	1.178065	5.874881	-9.875011	4.990363	2.293101	0.003940	0.002322	0.003581	0.999915
1438	7.105214	1.178065	5.874881	10.730925	4.990363	-25.224110	0.003939	0.001680	0.004425	0.999860
1439	4.053668	1.317117	5.874881	4.053668	-5.579395	-11.465504	0.003937	0.001948	0.004672	0.999978
1440	6.057912	1.767097	2.937441	-1.193510	7.485544	-6.879303	0.003927	0.002039	0.004774	0.999976
1441	3.743995	1.092126	2.937441	1.931140	-12.111865	-8.025853	0.003926	0.001589	0.002375	0.999988
1442	3.242934	0.728084	1.468720	3.242934	-8.074577	-9.172403	0.003912	0.001612	0.002578	0.999998
1443	10.111580	0.728084	0.000000	2.860158	-8.074577	-18.344807	0.003911	0.002139	0.001133	0.999996
1444	8.107336	1.906149	4.406161	8.107336	-3.084214	-22.931009	0.003911	0.002130	0.003055	0.999975
1445	6.176196	1.403055	0.000000	4.363341	11.522833	-14.905156	0.003908	0.001812	0.002059	0.999984
1446	5.174074	1.681159	2.937441	6.986930	-9.616684	-17.198257	0.003907	0.001683	0.004905	0.999926
1447	4.245056	0.728084	5.874881	0.619345	-8.074577	-6.879303	0.003905	0.001976	0.003002	0.999988
1448	6.131015	1.542107	5.874881	-10.184683	0.953074	5.732752	0.003888	0.001795	0.004140	0.999940
1449	6.440688	1.317117	2.937441	-8.062155	-5.579395	2.293101	0.003888	0.001844	0.005032	0.999947
1450	3.197754	0.589032	1.468720	-11.305090	2.495181	11.465504	0.003884	0.001358	0.003600	0.999988
1451	7.296602	1.767097	5.874881	7.296602	7.485544	-20.637908	0.003881	0.001880	0.003249	0.999951
1452	4.819221	0.589032	4.406161	-9.683622	2.495181	6.879303	0.003880	0.001735	0.002861	0.999985
1453	7.561094	1.681159	1.468720	-5.128894	-9.616684	-3.439651	0.003873	0.001801	0.003180	0.999964
1454	6.367584	1.092126	5.874881	0.929018	-12.111865	-10.318954	0.003856	0.001687	0.003029	0.999936
1455	4.245056	1.178065	4.406161	0.619345	4.990363	-6.879303	0.003855	0.002334	0.001895	0.999998
1456	3.434323	0.139052	0.000000	-0.191388	-10.569758	-4.586202	0.003855	0.001551	0.003740	0.999992
1457	6.632076	1.178065	0.000000	-11.496478	4.990363	6.879303	0.003848	0.001775	0.005104	0.999878
1458	8.371828	0.814023	0.000000	-4.318160	9.027651	-5.732752	0.003844	0.001683	0.003539	0.999961
1459	4.171952	0.224990	1.468720	9.610519	6.532470	-19.491357	0.003842	0.001404	0.000660	0.999999
1460	4.363341	0.364042	4.406161	6.176196	-4.037288	-14.905156	0.003839	0.001945	0.003359	0.999991
1461	2.505305	0.814023	8.812322	-6.558973	9.027651	5.732752	0.003833	0.001826	0.003581	0.999930
1462	8.062155	1.317117	5.874881	-6.440688	-5.579395	-2.293101	0.003823	0.002034	0.004264	0.999946
1463	8.298724	0.589032	0.000000	4.673013	2.495181	-18.344807	0.003822	0.002129	0.000583	1.000000
1464	3.434323	0.139052	2.937441	-0.191388	-10.569758	-4.586202	0.003819	0.001511	0.003874	0.999985
1465	7.989051	1.092126	0.000000	2.550485	-12.111865	-14.905156	0.003811	0.001995	0.002408	0.999963
1466	2.741873	0.814023	7.343601	4.554729	9.027651	-10.318954	0.003809	0.001806	0.004018	0.999955
1467	7.369706	1.092126	0.000000	-1.694571	-12.111865	-8.025853	0.003803	0.001858	0.000674	0.999998
1468	4.554729	1.403055	5.874881	2.741873	11.522833	-10.318954	0.003801	0.001717	0.001933	0.999983
1469	5.438566	1.317117	7.343601	-5.438566	-5.579395	0.000000	0.003799	0.002095	0.002869	0.999983
1470	6.750361	0.814023	1.468720	-5.939627	9.027651	-1.146550	0.003793	0.001769	0.003187	0.999973
1471	7.989051	2.270191	0.000000	2.550485	-7.121502	-14.905156	0.003792	0.001861	0.004794	0.999964
1472	8.253543	1.906149	2.937441	-9.875011	-3.084214	2.293101	0.003791	0.001898	0.001884	0.999986
1473	2.741873	0.814023	4.406161	4.554729	9.027651	-10.318954	0.003790	0.001863	0.003501	0.999985
1474	8.253543	1.906149	0.000000	-9.875011	-3.084214	2.293101	0.003786	0.001677	0.002905	0.999970
1475	5.629954	1.178065	7.343601	-8.872889	4.990363	4.586202	0.003785	0.001841	0.002079	0.999982
1476	7.251422	2.356130	5.874881	-7.251422	9.980726	0.000000	0.003775	0.001570	0.004380	0.999822
1477	1.812855	0.139052	4.406161	-1.812855	-10.569758	0.000000	0.003760	0.001548	0.004293	0.999978
1478	8.918069	1.767097	2.937441	8.918069	7.485544	-25.224110	0.003760	0.001901	0.002009	0.999972
1479	2.860158	-0.000000	0.000000	10.111580	-0.000000	-18.344807	0.003757	0.001225	0.000624	1.000000
1480	1.812855	0.589032	2.937441	-1.812855	2.495181	0.000000	0.003756	0.001915	0.002796	0.999999
1481	7.752483	0.364042	4.406161	-8.563216	-4.037288	1.146550	0.003751	0.001833	0.002432	0.999982
1482	7.752483	1.542107	5.874881	-8.563216	0.953074	1.146550	0.003745	0.002089	0.004359	0.999945
1483	4.937505	1.403055	7.343601	-4.126772	11.522833	-1.146550	0.003742	0.001821	0.003301	0.999917
1484	1.739752	0.364042	8.812322	7.178318	-4.037288	-12.612055	0.003741	0.002064	0.003760	0.999969
1485	8.371828	2.270191	0.000000	-4.318160	-7.121502	-5.732752	0.003738	0.001890	0.000996	0.999998
1486	5.675135	0.139052	0.000000	5.675135	-10.569758	-16.051706	0.003735	0.001833	0.006946	0.999870
1487	9.875011	0.728084	1.468720	-8.253543	-8.074577	-2.293101	0.003730	0.002044	0.007018	0.999628
1488	6.485869	1.906149	4.406161	6.485869	-3.084214	-18.344807	0.003726	0.002058	0.003119	0.999987
1489	7.251422	0.728084	2.937441	-7.251422	-8.074577	0.000000	0.003726	0.001763	0.004249	0.999936

1490	0.929018	0.224990	7.343601	6.367584	6.532470	-10.318954	0.003726	0.001872	0.003586	0.999977
1491	9.610519	0.814023	2.937441	4.171952	9.027651	-19.491357	0.003725	0.002017	0.006497	0.999810
1492	8.107336	1.178065	0.000000	8.107336	4.990363	-22.931009	0.003725	0.001526	0.003838	0.999963
1493	8.417009	2.131139	1.468720	10.229864	3.448256	-26.370660	0.003722	0.001896	0.003875	0.999934
1494	8.490112	-0.000000	0.000000	1.238691	0.000000	-13.758605	0.003721	0.002025	0.003709	0.999991
1495	4.982686	1.542107	4.406161	10.421252	0.953074	-21.784458	0.003721	0.001768	0.002572	0.999985
1496	9.801907	0.224990	1.468720	0.737630	6.532470	-14.905156	0.003706	0.001975	0.005316	0.999948
1497	5.629954	0.728084	0.000000	-8.872889	-8.074577	4.586202	0.003699	0.001539	0.001144	0.999996
1498	3.006365	0.728084	4.406161	-7.870767	-8.074577	6.879303	0.003696	0.001729	0.005317	0.999947
1499	2.741873	0.364042	7.343601	4.554729	-4.037288	-10.318954	0.003690	0.001905	0.003147	0.999990
1500	8.107336	-0.000000	5.874881	8.107336	-0.000000	-22.931009	0.003690	0.001871	0.003702	0.999964
1501	9.373950	0.814023	2.937441	-6.941749	9.027651	-3.439651	0.003685	0.001819	0.004556	0.999857
1502	6.941749	2.131139	5.874881	-9.373950	3.448256	3.439651	0.003678	0.001845	0.003117	0.999963
1503	2.741873	0.364042	2.937441	4.554729	-4.037288	-10.318954	0.003674	0.001808	0.006980	0.999988
1504	0.619345	0.000000	8.812322	4.245056	-0.000000	-6.879303	0.003671	0.002328	0.003658	0.999987
1505	6.677257	1.767097	7.343601	3.051546	7.485544	-13.758605	0.003667	0.002010	0.003441	0.999968
1506	7.679379	1.317117	1.468720	0.427957	-5.579395	-11.465504	0.003663	0.001980	0.004681	0.999979
1507	3.197754	0.589032	4.406161	-11.305090	2.495181	11.465504	0.003651	0.001729	0.004527	0.999956
1508	3.625711	0.728084	8.812322	-3.625711	-8.074577	0.000000	0.003651	0.002197	0.003948	0.999955
1509	6.986930	0.364042	1.468720	5.174074	-4.037288	-17.198257	0.003647	0.001996	0.004564	0.999981
1510	0.810734	0.139052	2.937441	0.810734	-10.569758	-2.293101	0.003646	0.001303	0.003814	0.999993
1511	5.128894	1.542107	2.937441	-7.561094	0.953074	3.439651	0.003646	0.001990	0.000243	1.000000
1512	2.432201	0.139052	0.000000	2.432201	-10.569758	-6.879303	0.003645	0.000993	0.007482	0.999982
1513	5.438566	0.139052	4.406161	-5.438566	-10.569758	0.000000	0.003641	0.001913	0.004612	0.999915
1514	4.864402	1.178065	1.468720	4.864402	4.990363	-13.758605	0.003639	0.001892	0.005676	0.999983
1515	6.440688	0.589032	4.406161	-8.062155	2.495181	2.293101	0.003637	0.001997	0.002451	0.999990
1516	7.178318	1.681159	4.406161	1.739752	-9.616684	-12.612055	0.003627	0.001617	0.001882	0.999989
1517	3.197754	0.589032	5.874881	-11.305090	2.495181	11.465504	0.003625	0.001759	0.004199	0.999942
1518	6.632076	1.178065	5.874881	-11.496478	4.990363	6.879303	0.003623	0.001924	0.002915	0.999927
1519	2.696693	0.224990	2.937441	-9.993295	6.532470	10.318954	0.003619	0.001546	0.003998	0.999979
1520	3.169831	0.953074	1.468720	12.234108	-1.542107	-21.784458	0.003618	0.001578	0.002015	0.999995
1521	7.752483	2.270191	2.937441	-8.563216	-7.121502	1.146550	0.003617	0.001470	0.006081	0.999826
1522	8.799785	1.681159	2.937441	3.361219	-9.616684	-17.198257	0.003615	0.001925	0.003625	0.999945
1523	3.361219	0.364042	1.468720	8.799785	-4.037288	-17.198257	0.003603	0.001373	0.002582	0.999997
1524	4.436444	0.139052	4.406161	-2.814977	-10.569758	-2.293101	0.003600	0.001733	0.001586	0.999994
1525	7.487991	1.178065	0.000000	3.862280	4.990363	-16.051706	0.003597	0.002032	0.004250	0.999982
1526	1.812855	0.139052	5.874881	-1.812855	-10.569758	0.000000	0.003594	0.001805	0.001421	0.999996
1527	6.750361	1.542107	5.874881	-5.939627	0.953074	-1.146550	0.003583	0.001914	0.004335	0.999975
1528	8.371828	0.814023	2.937441	-4.318160	9.027651	-5.732752	0.003579	0.001779	0.000611	0.999999
1529	5.128894	1.542107	0.000000	-7.561094	0.953074	3.439651	0.003568	0.001916	0.002759	0.999995
1530	2.387020	-0.000000	5.874881	-12.115823	0.000000	13.758605	0.003563	0.001650	0.003229	0.999963
1531	8.608397	0.364042	2.937441	6.795541	-4.037288	-21.784458	0.003559	0.001966	0.004087	0.999966
1532	5.365462	1.542107	7.343601	3.552607	0.953074	-12.612055	0.003557	0.002135	0.001257	0.999998
1533	9.610519	2.270191	0.000000	4.171952	-7.121502	-19.491357	0.003556	0.002049	0.002256	0.999986
1534	7.296602	1.317117	4.406161	7.296602	-5.579395	-20.637908	0.003556	0.002013	0.003711	0.999965
1535	7.561094	0.224990	4.406161	-5.128894	6.532470	-3.439651	0.003554	0.001974	0.001232	0.999997
1536	4.318160	0.224990	5.874881	-8.371828	6.532470	5.732752	0.003553	0.001787	0.001564	0.999993
1537	9.565338	2.131139	2.937441	-10.376072	3.448256	1.146550	0.003553	0.003114	0.006080	0.999763
1538	6.941749	0.953074	7.343601	-9.373950	-1.542107	3.439651	0.003545	0.001997	0.004324	0.999925
1539	5.128894	0.364042	4.406161	-7.561094	-4.037288	3.439651	0.003544	0.001985	0.003269	0.999986
1540	7.797663	2.131139	0.000000	5.984808	3.448256	-19.491357	0.003543	0.001876	0.002416	0.999993
1541	5.675135	1.767097	0.000000	5.675135	7.485544	-16.051706	0.003542	0.001838	0.005404	0.999964
1542	9.109458	1.906149	2.937441	5.483747	-3.084214	-20.637908	0.003534	0.001943	0.003316	0.999982
1543	9.109458	2.634233	0.000000	5.483747	-11.158791	-20.637908	0.003532	0.001914	0.003646	0.999876
1544	8.107336	1.906149	2.937441	8.107336	-3.084214	-22.931009	0.003522	0.002021	0.002617	0.999984
1545	7.606275	0.364042	2.937441	9.419130	-4.037288	-24.077559	0.003522	0.001698	0.004785	0.999928
1546	7.442810	0.589032	0.000000	-10.685744	2.495181	4.586202	0.003520	0.001485	0.004481	0.999934
1547	3.862280	1.178065	0.000000	7.487991	4.990363	-16.051706	0.003512	0.001613	0.006433	0.999979
1548	3.935384	0.953074	0.000000	-1.503183	-1.542107	-3.439651	0.003508	0.002200	0.006607	0.999993
1549	8.107336	0.728084	5.874881	8.107336	-8.074577	-22.931009	0.003504	0.001737	0.002700	0.999947
1550	8.490112	2.356130	4.406161	1.238691	9.980726	-13.758605	0.003502	0.001863	0.003537	0.999945
1551	4.937505	0.224990	8.812322	-4.126772	6.532470	-1.146550	0.003501	0.001749	0.001408	0.999995
1552	3.169831	0.953074	5.874881	12.234108	-1.542107	-21.784458	0.003500	0.001632	0.002456	0.999974
1553	8.107336	1.178065	4.406161	8.107336	4.990363	-22.931009	0.003497	0.001796	0.002703	0.999976
1554	8.754604	0.364042	0.000000	-11.186805	-4.037288	3.439651	0.003492	0.001835	0.000801	0.999996
1555	4.746117	1.092126	5.874881	-0.692449	-12.111865	-5.732752	0.003491	0.001804	0.004102	0.999912
1556	4.673013	0.589032	0.000000	8.298724	2.495181	-18.344807	0.003489	0.001684	0.004905	0.999985
1557	5.483747	0.728084	1.468720	9.109458	-8.074577	-20.637908	0.003484	0.001601	0.003745	0.999959
1558	8.490112	2.634233	4.406161	1.238691	-11.158791	-13.758605	0.003483	0.001893	0.003085	0.999937

1559	4.819221	0.589032	2.937441	-9.683622	2.495181	6.879303	0.003481	0.001657	0.004399	0.999974
1560	4.509548	0.364042	0.000000	-11.806151	-4.037288	10.318954	0.003478	0.001610	0.003242	0.999979
1561	5.629954	0.728084	2.937441	-8.872889	-8.074577	4.586202	0.003472	0.001701	0.002495	0.999979
1562	8.298724	1.767097	1.468720	4.673013	7.485544	-18.344807	0.003471	0.002002	0.003123	0.999978
1563	8.490112	2.356130	0.000000	1.238691	9.980726	-13.758605	0.003470	0.001957	0.001776	0.999989
1564	6.249300	-0.000000	4.406161	-4.627833	0.000000	-2.293101	0.003469	0.002249	0.001504	0.999998
1565	3.862280	0.728084	1.468720	7.487991	-8.074577	-16.051706	0.003459	0.001581	0.001867	0.999996
1566	2.359097	0.364042	7.343601	11.423374	-4.037288	-19.491357	0.003459	0.001608	0.003669	0.999928
1567	5.939627	0.953074	7.343601	-6.750361	-1.542107	1.146550	0.003457	0.002053	0.003519	0.999978
1568	5.675135	1.317117	1.468720	5.675135	-5.579395	-16.051706	0.003456	0.002016	0.004698	0.999981
1569	8.417009	2.131139	2.937441	10.229864	3.448256	-26.370660	0.003452	0.001867	0.003551	0.999939
1570	2.696693	0.224990	5.874881	-9.993295	6.532470	10.318954	0.003448	0.001788	0.001846	0.999988
1571	7.561094	0.224990	5.874881	-5.128894	6.532470	-3.439651	0.003444	0.001995	0.002935	0.999978
1572	3.051546	0.139052	0.000000	6.677257	-10.569758	-13.758605	0.003444	0.001590	0.006548	0.999960
1573	3.434323	0.139052	5.874881	-0.191388	-10.569758	-4.586202	0.003442	0.001741	0.001348	0.999996
1574	6.485869	1.178065	1.468720	6.485869	4.990363	-18.344807	0.003438	0.001797	0.002424	0.999993
1575	6.750361	0.814023	7.343601	-5.939627	9.027651	-1.146550	0.003437	0.001768	0.002556	0.999962
1576	8.490112	2.634233	0.000000	1.238691	-11.158791	-13.758605	0.003425	0.001845	0.003458	0.999938
1577	7.561094	1.681159	0.000000	-5.128894	-9.616684	-3.439651	0.003424	0.001865	0.000832	0.999998
1578	6.677257	1.317117	7.343601	3.051546	-5.579395	-13.758605	0.003424	0.001795	0.002480	0.999989
1579	5.629954	0.728084	7.343601	-8.872889	-8.074577	4.586202	0.003412	0.001468	0.005953	0.999732
1580	3.552607	0.224990	7.343601	5.365462	6.532470	-12.612055	0.003407	0.001856	0.002349	0.999990
1581	9.109458	2.634233	1.468720	5.483747	-11.158791	-20.637908	0.003398	0.001535	0.000574	0.999997
1582	4.126772	0.814023	7.343601	-4.937505	9.027651	1.146550	0.003397	0.001762	0.002168	0.999984
1583	2.860158	-0.000000	2.937441	10.111580	-0.000000	-18.344807	0.003395	0.001420	0.002563	0.999995
1584	6.294480	0.589032	7.343601	9.920191	2.495181	-22.931009	0.003386	0.001645	0.005446	0.999866
1585	3.051546	0.139052	2.937441	6.677257	-10.569758	-13.758605	0.003386	0.001623	0.001845	0.999994
1586	8.563216	0.224990	4.406161	-7.752483	6.532470	-1.146550	0.003380	0.002058	0.001012	0.999996
1587	9.875011	1.906149	0.000000	-8.253543	-3.084214	-2.293101	0.003379	0.002032	0.002978	0.999972
1588	1.548363	0.224990	7.343601	10.612640	6.532470	-17.198257	0.003374	0.001686	0.000813	0.999996
1589	5.675135	1.317117	7.343601	5.675135	-5.579395	-16.051706	0.003374	0.001955	0.003530	0.999973
1590	2.860158	-0.000000	5.874881	10.111580	-0.000000	-18.344807	0.003373	0.001666	0.001780	0.999994
1591	4.819221	1.317117	8.812322	-9.683622	-5.579395	6.879303	0.003369	0.001821	0.002645	0.999952
1592	9.419130	2.131139	1.468720	7.606275	3.448256	-24.077559	0.003366	0.001865	0.003513	0.999967
1593	9.728803	1.178065	2.937441	9.728803	4.990363	-27.517210	0.003364	0.003218	0.000474	0.999999
1594	6.131015	0.364042	4.406161	-10.184683	-4.037288	5.732752	0.003364	0.001703	0.002239	0.999983
1595	3.507426	0.364042	8.812322	-9.182562	-4.037288	8.025853	0.003352	0.001767	0.003207	0.999958
1596	7.606275	0.364042	5.874881	9.419130	-4.037288	-24.077559	0.003344	0.001833	0.003426	0.999948
1597	9.565338	0.224990	2.937441	-10.376072	6.532470	1.146550	0.003343	0.001897	0.001083	0.999988
1598	7.915948	2.495181	1.468720	11.541658	-0.589032	-27.517210	0.003340	0.001788	0.002540	0.999966
1599	6.750361	1.542107	2.937441	-5.939627	0.953074	-1.146550	0.003326	0.001979	0.001878	0.999997
1600	3.361219	0.364042	4.406161	8.799785	-4.037288	-17.198257	0.003320	0.001838	0.001464	0.999997
1601	9.373950	2.270191	2.937441	-6.941749	-7.121502	-3.439651	0.003310	0.001950	0.003147	0.999955
1602	8.991173	1.092126	2.937441	-0.073104	-12.111865	-12.612055	0.003310	0.001785	0.003257	0.999912
1603	1.548363	0.224990	8.812322	10.612640	6.532470	-17.198257	0.003307	0.001576	0.003564	0.999894
1604	8.754604	1.542107	1.468720	-11.186805	0.953074	3.439651	0.003305	0.001739	0.000501	0.999999
1605	4.746117	1.092126	8.812322	-0.692449	-12.111865	-5.732752	0.003305	0.001729	0.003127	0.999907
1606	8.062155	0.589032	4.406161	-6.440688	2.495181	-2.293101	0.003295	0.002071	0.003555	0.999979
1607	5.483747	1.178065	4.406161	9.109458	4.990363	-20.637908	0.003293	0.001677	0.002912	0.999979
1608	8.371828	2.720172	2.937441	-4.318160	5.943437	-5.732752	0.003283	0.002209	0.001937	0.999993
1609	6.868645	0.728084	4.406161	-0.382776	-8.074577	-9.172403	0.003282	0.002082	0.003087	0.999984
1610	8.799785	2.131139	2.937441	3.361219	3.448256	-17.198257	0.003281	0.001955	0.002399	0.999993
1611	6.367584	1.092126	7.343601	0.929018	-12.111865	-10.318954	0.003279	0.001687	0.002105	0.999960
1612	4.554729	0.224990	4.406161	2.741873	6.532470	-10.318954	0.003279	0.001826	0.002395	0.999995
1613	7.060033	0.139052	2.937441	-3.817099	-10.569758	-4.586202	0.003276	0.001806	0.003615	0.999950
1614	6.868645	0.728084	1.468720	-0.382776	-8.074577	-9.172403	0.003273	0.002040	0.002623	0.999991
1615	6.868645	1.178065	0.000000	-0.382776	4.990363	-9.172403	0.003271	0.001659	0.002018	0.999997
1616	4.937505	1.403055	1.468720	-4.126772	11.522833	-1.146550	0.003269	0.001670	0.003334	0.999971
1617	8.180440	1.403055	0.000000	-0.883837	11.522833	-10.318954	0.003265	0.001655	0.003209	0.999948
1618	4.318160	0.224990	4.406161	-8.371828	6.532470	5.732752	0.003260	0.001770	0.003214	0.999980
1619	6.795541	0.224990	4.406161	8.608397	6.532470	-21.784458	0.003258	0.001717	0.003036	0.999966
1620	5.675135	0.139052	2.937441	5.675135	-10.569758	-16.051706	0.003257	0.001734	0.003218	0.999964
1621	9.064277	1.767097	0.000000	-9.064277	7.485544	0.000000	0.003248	0.001888	0.004374	0.999869
1622	7.606275	2.270191	4.406161	9.419130	-7.121502	-24.077559	0.003247	0.001696	0.003549	0.999915
1623	8.107336	1.178065	1.468720	8.107336	4.990363	-22.931009	0.003245	0.001701	0.003159	0.999974
1624	6.632076	-0.000000	7.343601	-11.496478	0.000000	6.879303	0.003241	0.001882	0.001273	0.999988
1625	3.743995	1.092126	8.812322	1.931140	-12.111865	-8.025853	0.003237	0.001636	0.003226	0.999906
1626	9.492234	2.634233	1.468720	-1.384898	-11.158791	-11.465504	0.003234	0.001789	0.003756	0.999905
1627	2.432201	0.139052	2.937441	2.432201	-10.569758	-6.879303	0.003232	0.001498	0.002333	0.999996

1628	4.481625	0.000000	5.874881	11.733047	-0.000000	-22.931009	0.003210	0.001631	0.002139	0.999981
1629	6.176196	0.224990	0.000000	4.363341	6.532470	-14.905156	0.003195	0.001691	0.003693	0.999988
1630	7.105214	1.906149	4.406161	10.730925	-3.084214	-25.224110	0.003187	0.001724	0.001966	0.999982
1631	5.055790	0.139052	2.937441	1.430079	-10.569758	-9.172403	0.003187	0.001753	0.002049	0.999992
1632	4.008487	-0.000000	7.343601	-10.494356	0.000000	9.172403	0.003186	0.001760	0.003635	0.999953
1633	2.696693	0.224990	0.000000	-9.993295	6.532470	10.318954	0.003186	0.001194	0.000272	1.000000
1634	1.885959	0.364042	1.468720	-10.804029	-4.037288	12.612055	0.003184	0.001242	0.005321	0.999989
1635	4.509548	0.364042	7.343601	-11.806151	-4.037288	10.318954	0.003181	0.001766	0.001331	0.999986
1636	7.915948	0.589032	2.937441	11.541658	2.495181	-27.517210	0.003178	0.001607	0.002692	0.999958
1637	7.989051	0.814023	4.406161	2.550485	9.027651	-14.905156	0.003178	0.001754	0.002631	0.999979
1638	8.872889	1.906149	1.468720	-5.629954	-3.084214	-4.586202	0.003170	0.002003	0.001851	0.999995
1639	0.382776	-0.000000	8.812322	-6.868645	0.000000	9.172403	0.003167	0.001750	0.003118	0.999985
1640	6.057912	0.139052	7.343601	-1.193510	-10.569758	-6.879303	0.003166	0.001623	0.002535	0.999968
1641	3.507426	0.364042	5.874881	-9.182562	-4.037288	8.025853	0.003162	0.001784	0.004440	0.999960
1642	7.989051	1.542107	5.874881	2.550485	0.953074	-14.905156	0.003158	0.002145	0.003092	0.999990
1643	6.440688	1.767097	5.874881	-8.062155	7.485544	2.293101	0.003158	0.001638	0.002679	0.999965
1644	4.627833	0.728084	4.406161	-6.249300	-8.074577	2.293101	0.003156	0.001647	0.001706	0.999995
1645	8.799785	2.131139	1.468720	3.361219	3.448256	-17.198257	0.003154	0.001899	0.001253	0.999998
1646	1.931140	0.224990	2.937441	3.743995	6.532470	-8.025853	0.003154	0.001559	0.002026	0.999999
1647	8.253543	1.178065	4.406161	-9.875011	4.990363	2.293101	0.003153	0.001891	0.002882	0.999954
1648	6.941749	2.131139	0.000000	-9.373950	3.448256	3.439651	0.003152	0.001809	0.003443	0.999973
1649	3.862280	1.178065	5.874881	7.487991	4.990363	-16.051706	0.003151	0.001856	0.003795	0.999977
1650	7.060033	0.139052	4.406161	-3.817099	-10.569758	-4.586202	0.003147	0.001796	0.003117	0.999956
1651	4.864402	0.728084	5.874881	4.864402	-8.074577	-13.758605	0.003140	0.001789	0.002864	0.999983
1652	1.694571	0.224990	4.406161	-7.369706	6.532470	8.025853	0.003140	0.001803	0.000438	1.000000
1653	3.169831	0.953074	7.343601	12.234108	-1.542107	-21.784458	0.003138	0.001674	0.001750	0.999981
1654	6.485869	1.906149	7.343601	6.485869	-3.084214	-18.344807	0.003129	0.001942	0.002641	0.999985
1655	6.632076	-0.000000	5.874881	-11.496478	0.000000	6.879303	0.003128	0.001905	0.003364	0.999936
1656	4.554729	1.403055	8.812322	2.741873	11.522833	-10.318954	0.003123	0.001651	0.002400	0.999951
1657	9.801907	1.403055	1.468720	0.737630	11.522833	-14.905156	0.003119	0.001730	0.003082	0.999928
1658	1.694571	0.224990	5.874881	-7.369706	6.532470	8.025853	0.003117	0.001735	0.002792	0.999988
1659	2.313916	0.224990	7.343601	-3.124650	6.532470	1.146550	0.003116	0.001837	0.004996	0.999969
1660	5.128894	0.814023	0.000000	-7.561094	9.027651	3.439651	0.003115	0.001201	0.003214	0.999979
1661	8.371828	0.814023	1.468720	-4.318160	9.027651	-5.732752	0.003113	0.001676	0.002453	0.999981
1662	5.939627	0.224990	2.937441	-6.750361	6.532470	1.146550	0.003109	0.002032	0.001522	0.999996
1663	6.057912	0.139052	1.468720	-1.193510	-10.569758	-6.879303	0.003106	0.001709	0.003089	0.999981
1664	5.675135	1.317117	4.406161	5.675135	-5.579395	-16.051706	0.003093	0.001857	0.004246	0.999977
1665	8.107336	0.728084	4.406161	8.107336	-8.074577	-22.931009	0.003086	0.001475	0.001869	0.999979
1666	7.870767	2.356130	2.937441	-3.006365	9.980726	-6.879303	0.003085	0.001777	0.000805	0.999998
1667	7.915948	2.495181	5.874881	11.541658	-0.589032	-27.517210	0.003081	0.002811	0.001811	0.999974
1668	8.298724	1.767097	4.406161	4.673013	7.485544	-18.344807	0.003075	0.001903	0.002905	0.999976
1669	9.109458	2.634233	2.937441	5.483747	-11.158791	-20.637908	0.003056	0.001748	0.003817	0.999850
1670	3.006365	-0.000000	4.406161	-7.870767	0.000000	6.879303	0.003055	0.001733	0.003719	0.999991
1671	3.006365	0.728084	8.812322	-7.870767	-8.074577	6.879303	0.003054	0.001681	0.002077	0.999975
1672	6.176196	1.403055	2.937441	4.363341	11.522833	-14.905156	0.003045	0.001582	0.000917	0.999996
1673	7.679379	1.767097	0.000000	0.427957	7.485544	-11.465504	0.003039	0.001858	0.002586	0.999991
1674	6.440688	1.767097	4.406161	-8.062155	7.485544	2.293101	0.003032	0.001513	0.003539	0.999952
1675	3.670891	0.589032	2.937441	10.922313	2.495181	-20.637908	0.003031	0.001656	0.003790	0.999980
1676	8.918069	1.317117	0.000000	8.918069	-5.579395	-25.224110	0.003022	0.001515	0.001954	0.999984
1677	9.373950	2.270191	1.468720	-6.941749	-7.121502	-3.439651	0.003022	0.001608	0.002525	0.999973
1678	5.939627	0.224990	1.468720	-6.750361	6.532470	1.146550	0.003016	0.001956	0.002768	0.999990
1679	8.608397	2.270191	0.000000	6.795541	-7.121502	-21.784458	0.003007	0.001694	0.003114	0.999968
1680	8.490112	2.356130	2.937441	1.238691	9.980726	-13.758605	0.003001	0.001586	0.003091	0.999963
1681	8.681501	0.139052	0.000000	-2.195632	-10.569758	-9.172403	0.003000	0.001767	0.000787	0.999997
1682	5.675135	1.767097	5.874881	5.675135	7.485544	-16.051706	0.002998	0.001813	0.002608	0.999983
1683	7.752483	2.270191	5.874881	-8.563216	-7.121502	1.146550	0.002992	0.001707	0.002923	0.999944
1684	5.675135	1.317117	5.874881	5.675135	-5.579395	-16.051706	0.002990	0.001848	0.002157	0.999992
1685	7.251422	1.178065	2.937441	-7.251422	4.990363	0.000000	0.002987	0.001802	0.002325	0.999990
1686	6.294480	0.589032	4.406161	9.920191	2.495181	-22.931009	0.002986	0.001610	0.003208	0.999972
1687	5.128894	0.814023	5.874881	-7.561094	9.027651	3.439651	0.002978	0.001516	0.003120	0.999953
1688	8.918069	0.589032	4.406161	8.918069	2.495181	-25.224110	0.002978	0.001719	0.004069	0.999941
1689	5.984808	0.814023	1.468720	7.797663	9.027651	-19.491357	0.002963	0.001670	0.002965	0.999972
1690	6.986930	0.814023	4.406161	5.174074	9.027651	-17.198257	0.002962	0.001714	0.001816	0.999989
1691	9.109458	1.178065	1.468720	5.483747	4.990363	-20.637908	0.002949	0.001688	0.002983	0.999983
1692	4.363341	0.814023	4.406161	6.176196	9.027651	-14.905156	0.002947	0.001636	0.003294	0.999976
1693	3.169831	0.953074	8.812322	12.234108	-1.542107	-21.784458	0.002946	0.001585	0.002862	0.999928
1694	4.436444	0.139052	5.874881	-2.814977	-10.569758	-2.293101	0.002942	0.001668	0.002760	0.999976
1695	9.492234	2.634233	0.000000	-1.384898	-11.158791	-11.465504	0.002940	0.001837	0.003150	0.999935
1696	7.487991	0.728084	4.406161	3.862280	-8.074577	-16.051706	0.002937	0.002046	0.002674	0.999982

1697	6.632076	1.906149	7.343601	-11.496478	-3.084214	6.879303	0.002918	0.001717	0.000902	0.999993
1698	2.814977	0.139052	7.343601	-4.436444	-10.569758	2.293101	0.002912	0.001638	0.002816	0.999965
1699	8.490112	1.178065	0.000000	1.238691	4.990363	-13.758605	0.002908	0.001935	0.003163	0.999990
1700	7.679379	0.139052	4.406161	0.427957	-10.569758	-11.465504	0.002905	0.001591	0.002834	0.999967
1701	4.171952	0.224990	7.343601	9.610519	6.532470	-19.491357	0.002903	0.001683	0.001881	0.999981
1702	4.363341	0.814023	7.343601	6.176196	9.027651	-14.905156	0.002900	0.001665	0.003402	0.999949
1703	2.387020	-0.000000	0.000000	-12.115823	0.000000	13.758605	0.002896	0.000998	0.003688	0.999993
1704	2.195632	0.589032	5.874881	-8.681501	2.495181	9.172403	0.002895	0.001782	0.001593	0.999997
1705	4.481625	0.000000	2.937441	11.733047	-0.000000	-22.931009	0.002885	0.001562	0.000446	1.000000
1706	4.318160	0.224990	0.000000	-8.371828	6.532470	5.732752	0.002881	0.001486	0.001265	0.999998
1707	6.750361	0.814023	4.406161	-5.939627	9.027651	-1.146550	0.002879	0.001760	0.000436	0.999999
1708	6.795541	0.224990	5.874881	8.608397	6.532470	-21.784458	0.002878	0.001867	0.002855	0.999962
1709	7.442810	0.589032	4.406161	-10.685744	2.495181	4.586202	0.002878	0.001730	0.002493	0.999972
1710	8.608397	0.364042	0.000000	6.795541	-4.037288	-21.784458	0.002875	0.001912	0.004404	0.999965
1711	8.681501	0.139052	2.937441	-2.195632	-10.569758	-9.172403	0.002870	0.001509	0.003923	0.999926
1712	3.507426	0.364042	4.406161	-9.182562	-4.037288	8.025853	0.002869	0.001659	0.002751	0.999990
1713	3.862280	1.178065	7.343601	7.487991	4.990363	-16.051706	0.002863	0.002112	0.003165	0.999977
1714	5.675135	0.139052	1.468720	5.675135	-10.569758	-16.051706	0.002863	0.001582	0.001878	0.999990
1715	3.862280	1.178065	8.812322	7.487991	4.990363	-16.051706	0.002861	0.001883	0.002855	0.999975
1716	5.320282	0.953074	7.343601	-10.995417	-1.542107	8.025853	0.002860	0.001767	0.002370	0.999970
1717	9.064277	1.767097	2.937441	-9.064277	7.485544	0.000000	0.002857	0.001516	0.002199	0.999963
1718	6.795541	2.131139	1.468720	8.608397	3.448256	-21.784458	0.002853	0.001775	0.002830	0.999985
1719	5.438566	1.317117	5.874881	-5.438566	-5.579395	0.000000	0.002850	0.001749	0.001450	0.999997
1720	6.986930	0.364042	7.343601	5.174074	-4.037288	-17.198257	0.002845	0.001700	0.001795	0.999994
1721	8.062155	1.767097	0.000000	-6.440688	7.485544	-2.293101	0.002842	0.001590	0.001451	0.999994
1722	8.180440	0.224990	4.406161	-0.883837	6.532470	-10.318954	0.002835	0.001870	0.000932	0.999999
1723	4.481625	0.000000	8.812322	11.733047	-0.000000	-22.931009	0.002835	0.001762	0.001543	0.999981
1724	5.483747	0.728084	4.406161	9.109458	-8.074577	-20.637908	0.002832	0.001614	0.002054	0.999981
1725	8.371828	0.364042	4.406161	-4.318160	-4.037288	-5.732752	0.002831	0.001870	0.002090	0.999994
1726	9.565338	0.224990	1.468720	-10.376072	6.532470	1.146550	0.002819	0.001702	0.001548	0.999978
1727	7.178318	1.403055	4.406161	1.739752	11.522833	-12.612055	0.002803	0.001591	0.000226	1.000000
1728	2.432201	0.139052	8.812322	2.432201	-10.569758	-6.879303	0.002801	0.001645	0.002011	0.999980
1729	5.793420	0.953074	2.937441	11.231986	-1.542107	-24.077559	0.002799	0.001383	0.002480	0.999982
1730	7.797663	1.681159	0.000000	5.984808	-9.616684	-19.491357	0.002795	0.001747	0.000269	1.000000
1731	5.939627	0.224990	5.874881	-6.750361	6.532470	1.146550	0.002784	0.001883	0.002305	0.999987
1732	5.483747	0.728084	2.937441	9.109458	-8.074577	-20.637908	0.002776	0.001594	0.002533	0.999977
1733	7.178318	1.403055	0.000000	1.739752	11.522833	-12.612055	0.002772	0.001902	0.001812	0.999987
1734	2.505305	0.364042	8.812322	-6.558973	-4.037288	5.732752	0.002768	0.001757	0.002073	0.999992
1735	8.490112	2.634233	2.937441	1.238691	-11.158791	-13.758605	0.002766	0.001691	0.001466	0.999987
1736	8.107336	0.728084	1.468720	8.107336	-8.074577	-22.931009	0.002762	0.001620	0.003075	0.999954
1737	7.989051	1.092126	4.406161	2.550485	-12.111865	-14.905156	0.002756	0.001891	0.002515	0.999946
1738	2.860158	-0.000000	8.812322	10.111580	-0.000000	-18.344807	0.002754	0.001684	0.003015	0.999964
1739	7.442810	0.589032	2.937441	-10.685744	2.495181	4.586202	0.002754	0.001659	0.003035	0.999965
1740	5.055790	0.139052	7.343601	1.430079	-10.569758	-9.172403	0.002749	0.001624	0.002751	0.999967
1741	6.294480	0.589032	0.000000	9.920191	2.495181	-22.931009	0.002736	0.001786	0.001203	0.999997
1742	7.251422	0.728084	4.406161	-7.251422	-8.074577	0.000000	0.002734	0.001519	0.003806	0.999939
1743	5.483747	1.178065	2.937441	9.109458	4.990363	-20.637908	0.002724	0.001755	0.001493	0.999996
1744	6.294480	1.767097	7.343601	9.920191	7.485544	-22.931009	0.002720	0.001641	0.000560	0.999997
1745	7.679379	0.139052	5.874881	0.427957	-10.569758	-11.465504	0.002714	0.001454	0.002774	0.999961
1746	3.862280	0.728084	7.343601	7.487991	-8.074577	-16.051706	0.002710	0.001583	0.001253	0.999993
1747	3.361219	0.364042	5.874881	8.799785	-4.037288	-17.198257	0.002707	0.001803	0.003280	0.999981
1748	6.294480	1.317117	0.000000	9.920191	-5.579395	-22.931009	0.002706	0.001691	0.005144	0.999926
1749	4.937505	0.224990	5.874881	-4.126772	6.532470	-1.146550	0.002705	0.002073	0.001112	0.999998
1750	2.505305	0.364042	5.874881	-6.558973	-4.037288	5.732752	0.002703	0.001746	0.002402	0.999995
1751	9.683622	0.589032	2.937441	-4.819221	2.495181	-6.879303	0.002701	0.002192	0.000912	0.999999
1752	7.797663	1.681159	2.937441	5.984808	-9.616684	-19.491357	0.002701	0.001491	0.001634	0.999987
1753	8.754604	1.542107	4.406161	-11.186805	0.953074	3.439651	0.002700	0.001640	0.000933	0.999994
1754	1.812855	0.139052	0.000000	-1.812855	-10.569758	0.000000	0.002694	0.001061	0.000569	1.000000
1755	4.509548	0.364042	2.937441	-11.806151	-4.037288	10.318954	0.002692	0.001579	0.000819	0.999998
1756	8.298724	0.139052	4.406161	4.673013	-10.569758	-18.344807	0.002687	0.001522	0.003381	0.999925
1757	5.483747	-0.000000	1.468720	9.109458	-0.000000	-20.637908	0.002680	0.001607	0.002429	0.999994
1758	5.128894	1.542107	5.874881	-7.561094	0.953074	3.439651	0.002680	0.001827	0.000634	0.999999
1759	8.417009	0.953074	4.406161	10.229864	-1.542107	-26.370660	0.002680	0.001629	0.002329	0.999975
1760	4.819221	1.317117	7.343601	-9.683622	-5.579395	6.879303	0.002668	0.001649	0.001580	0.999987
1761	6.176196	1.681159	2.937441	4.363341	-9.616684	-14.905156	0.002667	0.001765	0.002517	0.999984
1762	6.604153	1.542107	1.468720	12.042719	0.953074	-26.370660	0.002666	0.001675	0.000006	1.000000
1763	5.174074	1.681159	5.874881	6.986930	-9.616684	-17.198257	0.002665	0.001451	0.000672	0.999998
1764	6.604153	1.542107	4.406161	12.042719	0.953074	-26.370660	0.002663	0.001533	0.002849	0.999953
1765	4.053668	1.317117	2.937441	4.053668	-5.579395	-11.465504	0.002658	0.001680	0.005580	0.999984

1766	6.294480	1.767097	2.937441	9.920191	7.485544	-22.931009	0.002657	0.001444	0.000134	1.000000
1767	6.131015	0.364042	7.343601	-10.184683	-4.037288	5.732752	0.002653	0.001594	0.003567	0.999929
1768	5.438566	0.589032	7.343601	-5.438566	2.495181	0.000000	0.002646	0.001972	0.001794	0.999996
1769	6.294480	1.317117	5.874881	9.920191	-5.579395	-22.931009	0.002644	0.001527	0.003212	0.999946
1770	4.673013	0.589032	7.343601	8.298724	2.495181	-18.344807	0.002640	0.001917	0.001233	0.999997
1771	6.558973	1.403055	2.937441	-2.505305	11.522833	-5.732752	0.002639	0.001532	0.003170	0.999958
1772	7.442810	1.317117	2.937441	-10.685744	-5.579395	4.586202	0.002637	0.001930	0.000772	0.999997
1773	7.943871	0.953074	5.874881	-11.997539	-1.542107	5.732752	0.002635	0.001541	0.001185	0.999987
1774	7.296602	0.589032	1.468720	7.296602	2.495181	-20.637908	0.002633	0.001826	0.002640	0.999991
1775	7.251422	1.906149	5.874881	-7.251422	-3.084214	0.000000	0.002633	0.001860	0.000572	0.999999
1776	6.941749	0.224990	1.468720	-9.373950	6.532470	3.439651	0.002627	0.001439	0.000328	1.000000
1777	8.608397	2.270191	2.937441	6.795541	-7.121502	-21.784458	0.002626	0.001864	0.002441	0.999978
1778	8.918069	1.317117	4.406161	8.918069	-5.579395	-25.224110	0.002622	0.001957	0.002014	0.999978
1779	3.197754	0.589032	2.937441	-11.305090	2.495181	11.465504	0.002612	0.001488	0.000930	0.999999
1780	8.490112	2.634233	1.468720	1.238691	-11.158791	-13.758605	0.002612	0.001610	0.002374	0.999970
1781	4.864402	0.728084	8.812322	4.864402	-8.074577	-13.758605	0.002611	0.001899	0.002247	0.999981
1782	8.872889	-0.000000	4.406161	-5.629954	0.000000	-4.586202	0.002609	0.001510	0.001474	0.999997
1783	8.371828	0.364042	1.468720	-4.318160	-4.037288	-5.732752	0.002608	0.002052	0.002135	0.999995
1784	8.180440	1.403055	2.937441	-0.883837	11.522833	-10.318954	0.002607	0.001507	0.002505	0.999964
1785	7.442810	0.589032	5.874881	-10.685744	2.495181	4.586202	0.002607	0.001686	0.002184	0.999974
1786	4.627833	0.728084	5.874881	-6.249300	-8.074577	2.293101	0.002601	0.001955	0.001419	0.999995
1787	7.752483	0.814023	1.468720	-8.563216	9.027651	1.146550	0.002600	0.001488	0.000124	1.000000
1788	2.623589	0.728084	1.468720	-1.002122	-8.074577	-2.293101	0.002599	0.001664	0.003608	0.999997
1789	4.318160	0.224990	8.812322	-8.371828	6.532470	5.732752	0.002590	0.001659	0.002218	0.999974
1790	6.367584	0.814023	5.874881	0.929018	9.027651	-10.318954	0.002588	0.001946	0.001670	0.999993
1791	6.176196	0.224990	7.343601	4.363341	6.532470	-14.905156	0.002587	0.002037	0.002606	0.999985
1792	8.754604	1.542107	0.000000	-11.186805	0.953074	3.439651	0.002584	0.002035	0.003450	0.999938
1793	9.565338	2.859223	1.468720	-10.376072	-4.626321	1.146550	0.002577	0.002080	0.002685	0.999948
1794	1.812855	0.139052	7.343601	-1.812855	-10.569758	0.000000	0.002572	0.001568	0.000509	0.999999
1795	5.939627	1.681159	1.468720	-6.750361	-9.616684	1.146550	0.002563	0.001783	0.000362	1.000000
1796	4.554729	0.224990	8.812322	2.741873	6.532470	-10.318954	0.002563	0.001895	0.002558	0.999987
1797	7.943871	2.131139	0.000000	-11.997539	3.448256	5.732752	0.002556	0.001900	0.000611	0.999997
1798	3.051546	0.139052	5.874881	6.677257	-10.569758	-13.758605	0.002551	0.001650	0.003430	0.999947
1799	5.438566	0.589032	1.468720	-5.438566	2.495181	0.000000	0.002549	0.001841	0.004605	0.999989
1800	9.419130	2.131139	0.000000	7.606275	3.448256	-24.077559	0.002541	0.001714	0.001195	0.999996
1801	4.982686	1.542107	2.937441	10.421252	0.953074	-21.784458	0.002539	0.001607	0.002932	0.999985
1802	7.369706	0.814023	4.406161	-1.694571	9.027651	-8.025853	0.002533	0.002035	0.000961	0.999998
1803	8.180440	0.224990	1.468720	-0.883837	6.532470	-10.318954	0.002523	0.001923	0.000296	1.000000
1804	6.249300	1.178065	1.468720	-4.627833	4.990363	-2.293101	0.002514	0.001896	0.004206	0.999986
1805	7.060033	0.139052	0.000000	-3.817099	-10.569758	-4.586202	0.002513	0.001460	0.002149	0.999985
1806	8.417009	0.224990	4.406161	10.229864	6.532470	-26.370660	0.002513	0.001690	0.003571	0.999893
1807	4.627833	0.728084	1.468720	-6.249300	-8.074577	2.293101	0.002512	0.001653	0.000382	1.000000
1808	4.819221	1.317117	4.406161	-9.683622	-5.579395	6.879303	0.002511	0.001761	0.001473	0.999994
1809	4.318160	0.224990	7.343601	-8.371828	6.532470	5.732752	0.002508	0.001749	0.000008	1.000000
1810	9.300846	1.767097	1.468720	2.049424	7.485544	-16.051706	0.002497	0.001681	0.000369	1.000000
1811	0.810734	0.139052	8.812322	0.810734	-10.569758	-2.293101	0.002494	0.001835	0.002871	0.999966
1812	8.298724	1.317117	2.937441	4.673013	-5.579395	-18.344807	0.002493	0.002008	0.003340	0.999981
1813	6.176196	1.403055	4.406161	4.363341	11.522833	-14.905156	0.002488	0.001797	0.002886	0.999952
1814	4.627833	-0.000000	7.343601	-6.249300	0.000000	2.293101	0.002488	0.001799	0.003337	0.999986
1815	3.197754	0.589032	7.343601	-11.305090	2.495181	11.465504	0.002486	0.001456	0.002651	0.999967
1816	5.793420	0.953074	5.874881	11.231986	-1.542107	-24.077559	0.002485	0.001652	0.000900	0.999996
1817	2.933262	0.224990	5.874881	1.120406	6.532470	-5.732752	0.002482	0.001880	0.000997	0.999999
1818	3.670891	0.589032	5.874881	10.922313	2.495181	-20.637908	0.002481	0.001495	0.000384	1.000000
1819	8.608397	0.364042	1.468720	6.795541	-4.037288	-21.784458	0.002478	0.001897	0.001361	0.999997
1820	3.006365	-0.000000	7.343601	-7.870767	0.000000	6.879303	0.002464	0.001751	0.002289	0.999992
1821	4.554729	0.224990	7.343601	2.741873	6.532470	-10.318954	0.002461	0.001808	0.000781	0.999999
1822	2.696693	0.224990	8.812322	-9.993295	6.532470	10.318954	0.002458	0.001576	0.002527	0.999954
1823	8.918069	1.767097	0.000000	8.918069	7.485544	-25.224110	0.002458	0.001839	0.002484	0.999961
1824	3.670891	0.589032	7.343601	10.922313	2.495181	-20.637908	0.002454	0.001622	0.000632	0.999998
1825	1.430079	0.139052	8.812322	5.055790	-10.569758	-9.172403	0.002449	0.001519	0.000820	0.999996
1826	8.563216	0.224990	1.468720	-7.752483	6.532470	-1.146550	0.002444	0.001708	0.001442	0.999993
1827	5.984808	1.542107	7.343601	7.797663	0.953074	-19.491357	0.002443	0.001890	0.000012	1.000000
1828	2.550485	0.224990	5.874881	7.989051	6.532470	-14.905156	0.002435	0.001580	0.002463	0.999988
1829	8.371828	2.720172	0.000000	-4.318160	5.943437	-5.732752	0.002432	0.002079	0.002445	0.999990
1830	3.006365	-0.000000	5.874881	-7.870767	0.000000	6.879303	0.002431	0.001674	0.001272	0.999998
1831	9.064277	0.589032	1.468720	-9.064277	2.495181	0.000000	0.002430	0.001626	0.001772	0.999990
1832	9.920191	0.589032	1.468720	6.294480	2.495181	-22.931009	0.002427	0.001766	0.000354	1.000000
1833	4.245056	0.728084	7.343601	0.619345	-8.074577	-6.879303	0.002424	0.001837	0.001703	0.999995
1834	3.006365	0.728084	7.343601	-7.870767	-8.074577	6.879303	0.002423	0.001725	0.002499	0.999974

1835	4.363341	0.814023	2.937441	6.176196	9.027651	-14.905156	0.002423	0.001493	0.003009	0.999985
1836	2.359097	0.364042	5.874881	11.423374	-4.037288	-19.491357	0.002416	0.001433	0.002421	0.999979
1837	2.860158	-0.000000	1.468720	10.111580	-0.000000	-18.344807	0.002415	0.001491	0.003370	0.999995
1838	8.062155	0.139052	5.874881	-6.440688	-10.569758	-2.293101	0.002405	0.001845	0.000274	0.999999
1839	7.105214	1.906149	5.874881	10.730925	-3.084214	-25.224110	0.002402	0.001461	0.002843	0.999953
1840	8.180440	1.681159	0.000000	-0.883837	-9.616684	-10.318954	0.002391	0.001688	0.002481	0.999983
1841	6.294480	0.589032	5.874881	9.920191	2.495181	-22.931009	0.002391	0.001461	0.001296	0.999994
1842	6.986930	0.364042	4.406161	5.174074	-4.037288	-17.198257	0.002390	0.001704	0.002252	0.999994
1843	9.419130	2.131139	2.937441	7.606275	3.448256	-24.077559	0.002389	0.001857	0.001383	0.999995
1844	7.606275	1.542107	0.000000	9.419130	0.953074	-24.077559	0.002388	0.001559	0.000368	1.000000
1845	9.801907	1.403055	0.000000	0.737630	11.522833	-14.905156	0.002385	0.001891	0.000350	0.999999
1846	1.193510	0.139052	5.874881	-6.057912	-10.569758	6.879303	0.002381	0.001628	0.002095	0.999986
1847	8.799785	1.403055	1.468720	3.361219	11.522833	-17.198257	0.002375	0.001743	0.003833	0.999895
1848	7.606275	2.270191	5.874881	9.419130	-7.121502	-24.077559	0.002373	0.001577	0.000333	0.999999
1849	9.300846	0.139052	2.937441	2.049424	-10.569758	-16.051706	0.002370	0.001627	0.000221	1.000000
1850	6.795541	0.224990	1.468720	8.608397	6.532470	-21.784458	0.002367	0.001672	0.001093	0.999997
1851	6.176196	0.224990	5.874881	4.363341	6.532470	-14.905156	0.002365	0.001879	0.000926	0.999998
1852	4.171952	0.224990	8.812322	9.610519	6.532470	-19.491357	0.002363	0.001531	0.001096	0.999991
1853	4.864402	1.178065	4.406161	4.864402	4.990363	-13.758605	0.002357	0.001794	0.001101	0.999999
1854	5.483747	0.728084	0.000000	9.109458	-8.074577	-20.637908	0.002354	0.001640	0.000046	1.000000
1855	2.359097	0.364042	8.812322	11.423374	-4.037288	-19.491357	0.002352	0.001670	0.001993	0.999970
1856	6.176196	0.224990	2.937441	4.363341	6.532470	-14.905156	0.002349	0.001836	0.000888	0.999999
1857	7.606275	2.270191	0.000000	9.419130	-7.121502	-24.077559	0.002345	0.001652	0.002115	0.999977
1858	4.008487	-0.000000	8.812322	-10.494356	0.000000	9.172403	0.002343	0.001649	0.002048	0.999979
1859	3.862280	0.728084	5.874881	7.487991	-8.074577	-16.051706	0.002342	0.001709	0.001694	0.999991
1860	3.051546	0.589032	1.468720	6.677257	2.495181	-13.758605	0.002335	0.001525	0.001816	0.999999
1861	6.795541	2.131139	0.000000	8.608397	3.448256	-21.784458	0.002333	0.001642	0.000516	1.000000
1862	4.126772	0.814023	8.812322	-4.937505	9.027651	1.146550	0.002329	0.001537	0.001116	0.999994
1863	8.918069	1.317117	2.937441	8.918069	-5.579395	-25.224110	0.002329	0.001816	0.000016	1.000000
1864	2.623589	0.728084	4.406161	-1.002122	-8.074577	-2.293101	0.002325	0.001901	0.000682	1.000000
1865	3.743995	0.364042	7.343601	1.931140	-4.037288	-8.025853	0.002321	0.002206	0.001851	0.999997
1866	8.872889	1.906149	2.937441	-5.629954	-3.084214	-4.586202	0.002316	0.001954	0.000804	0.999999
1867	4.673013	0.589032	8.812322	8.298724	2.495181	-18.344807	0.002311	0.002195	0.002168	0.999986
1868	9.109458	2.356130	2.937441	5.483747	9.980726	-20.637908	0.002303	0.001514	0.001238	0.999989
1869	9.419130	2.859223	1.468720	7.606275	-4.626321	-24.077559	0.002302	0.001886	0.004262	0.999942
1870	5.629954	0.728084	5.874881	-8.872889	-8.074577	4.586202	0.002302	0.001481	0.001043	0.999994
1871	5.675135	0.139052	5.874881	5.675135	-10.569758	-16.051706	0.002294	0.001590	0.002786	0.999955
1872	6.558973	1.403055	4.406161	-2.505305	11.522833	-5.732752	0.002293	0.001544	0.003448	0.999939
1873	6.677257	0.139052	4.406161	3.051546	-10.569758	-13.758605	0.002290	0.001621	0.001906	0.999986
1874	0.692449	0.224990	8.812322	-4.746117	6.532470	5.732752	0.002288	0.001944	0.000916	0.999998
1875	5.128894	1.542107	7.343601	-7.561094	0.953074	3.439651	0.002288	0.002234	0.002399	0.999989
1876	9.300846	0.139052	0.000000	2.049424	-10.569758	-16.051706	0.002285	0.001622	0.000922	0.999996
1877	8.490112	0.728084	4.406161	1.238691	-8.074577	-13.758605	0.002285	0.001722	0.001836	0.999992
1878	4.673013	0.589032	5.874881	8.298724	2.495181	-18.344807	0.002284	0.001976	0.001075	0.999998
1879	2.387020	-0.000000	8.812322	-12.115823	0.000000	13.758605	0.002283	0.001525	0.002401	0.999956
1880	7.989051	0.814023	1.468720	2.550485	9.027651	-14.905156	0.002282	0.001933	0.002176	0.999989
1881	5.438566	1.317117	1.468720	-5.438566	-5.579395	0.000000	0.002282	0.001774	0.004359	0.999985
1882	7.797663	2.131139	2.937441	5.984808	3.448256	-19.491357	0.002278	0.001796	0.001404	0.999997
1883	4.245056	0.728084	1.468720	0.619345	-8.074577	-6.879303	0.002275	0.001597	0.001849	0.999998
1884	5.556851	0.224990	5.874881	0.118284	6.532470	-8.025853	0.002270	0.002151	0.002943	0.999990
1885	8.608397	0.814023	2.937441	6.795541	9.027651	-21.784458	0.002264	0.001500	0.002544	0.999963
1886	6.677257	1.767097	4.406161	3.051546	7.485544	-13.758605	0.002263	0.001755	0.001393	0.999997
1887	8.608397	0.814023	0.000000	6.795541	9.027651	-21.784458	0.002262	0.001921	0.003373	0.999943
1888	4.673013	0.589032	2.937441	8.298724	2.495181	-18.344807	0.002258	0.001743	0.002909	0.999993
1889	4.245056	0.728084	8.812322	0.619345	-8.074577	-6.879303	0.002256	0.001651	0.000341	1.000000
1890	6.176196	1.681159	1.468720	4.363341	-9.616684	-14.905156	0.002244	0.001669	0.000373	1.000000
1891	8.062155	1.767097	1.468720	-6.440688	7.485544	-2.293101	0.002239	0.001597	0.002079	0.999987
1892	3.361219	0.364042	0.000000	8.799785	-4.037288	-17.198257	0.002237	0.001370	0.003363	0.999995
1893	5.365462	0.814023	5.874881	3.552607	9.027651	-12.612055	0.002234	0.001779	0.002993	0.999977
1894	8.991173	0.814023	1.468720	-0.073104	9.027651	-12.612055	0.002234	0.001619	0.002926	0.999976
1895	7.178318	0.224990	5.874881	1.739752	6.532470	-12.612055	0.002233	0.001813	0.002777	0.999987
1896	1.694571	0.224990	8.812322	-7.369706	6.532470	8.025853	0.002230	0.001547	0.001434	0.999993
1897	9.182562	0.224990	0.000000	-3.507426	6.532470	-8.025853	0.002226	0.002057	0.000578	0.999999
1898	7.561094	0.224990	0.000000	-5.128894	6.532470	-3.439651	0.002223	0.001726	0.003982	0.999976
1899	7.442810	1.317117	0.000000	-10.685744	-5.579395	4.586202	0.002219	0.001897	0.001960	0.999981
1900	7.752483	0.814023	4.406161	-8.563216	9.027651	1.146550	0.002218	0.001591	0.000476	0.999998
1901	6.632076	-0.000000	4.406161	-11.496478	0.000000	6.879303	0.002216	0.001373	0.000750	0.999997
1902	9.920191	1.317117	0.000000	6.294480	-5.579395	-22.931009	0.002210	0.002031	0.001693	0.999992
1903	3.316038	0.953074	4.406161	-5.748239	-1.542107	3.439651	0.002205	0.001878	0.000818	1.000000

1904	2.696693	0.224990	7.343601	-9.993295	6.532470	10.318954	0.002205	0.001573	0.003600	0.999934
1905	6.632076	1.178065	1.468720	-11.496478	4.990363	6.879303	0.002204	0.001379	0.000599	0.999998
1906	7.296602	0.589032	5.874881	7.296602	2.495181	-20.637908	0.002194	0.002050	0.001275	0.999997
1907	9.182562	1.681159	1.468720	-3.507426	-9.616684	-8.025853	0.002194	0.001643	0.004410	0.999917
1908	5.984808	0.364042	7.343601	7.797663	-4.037288	-19.491357	0.002192	0.001757	0.001780	0.999991
1909	5.438566	1.767097	0.000000	-5.438566	7.485544	0.000000	0.002191	0.001543	0.004114	0.999981
1910	6.367584	0.814023	1.468720	0.929018	9.027651	-10.318954	0.002191	0.001735	0.001597	0.999996
1911	4.171952	0.224990	4.406161	9.610519	6.532470	-19.491357	0.002190	0.001552	0.002533	0.999983
1912	9.109458	1.906149	1.468720	5.483747	-3.084214	-20.637908	0.002190	0.001648	0.001926	0.999994
1913	8.298724	0.139052	5.874881	4.673013	-10.569758	-18.344807	0.002187	0.001843	0.003325	0.999913
1914	7.606275	2.270191	2.937441	9.419130	-7.121502	-24.077559	0.002178	0.001687	0.000534	0.999998
1915	5.128894	0.814023	2.937441	-7.561094	9.027651	3.439651	0.002177	0.001433	0.001135	0.999996
1916	5.320282	0.953074	5.874881	-10.995417	-1.542107	8.025853	0.002174	0.001435	0.001243	0.999994
1917	5.438566	1.317117	2.937441	-5.438566	-5.579395	0.000000	0.002166	0.001699	0.001688	0.999997
1918	4.363341	0.364042	7.343601	6.176196	-4.037288	-14.905156	0.002166	0.001919	0.002131	0.999993
1919	5.128894	0.364042	1.468720	-7.561094	-4.037288	3.439651	0.002157	0.001581	0.000634	1.000000
1920	7.915948	2.495181	4.406161	11.541658	-0.589032	-27.517210	0.002155	0.001622	0.004083	0.999890
1921	6.057912	0.139052	4.406161	-1.193510	-10.569758	-6.879303	0.002153	0.001407	0.000165	1.000000
1922	6.632076	1.906149	0.000000	-11.496478	-3.084214	6.879303	0.002153	0.001649	0.001975	0.999985
1923	8.298724	0.139052	1.468720	4.673013	-10.569758	-18.344807	0.002152	0.001531	0.002167	0.999975
1924	1.193510	0.139052	4.406161	-6.057912	-10.569758	6.879303	0.002150	0.001480	0.001423	0.999996
1925	3.361219	0.364042	7.343601	8.799785	-4.037288	-17.198257	0.002139	0.001520	0.000920	0.999998
1926	3.197754	0.589032	8.812322	-11.305090	2.495181	11.465504	0.002131	0.001716	0.002643	0.999954
1927	8.298724	1.317117	4.406161	4.673013	-5.579395	-18.344807	0.002127	0.001789	0.000831	0.999999
1928	7.105214	1.178065	4.406161	10.730925	4.990363	-25.224110	0.002127	0.001540	0.002297	0.999969
1929	4.171952	0.224990	5.874881	9.610519	6.532470	-19.491357	0.002121	0.001543	0.001786	0.999988
1930	6.485869	1.178065	0.000000	6.485869	4.990363	-18.344807	0.002121	0.001753	0.002619	0.999992
1931	6.176196	1.403055	1.468720	4.363341	11.522833	-14.905156	0.002119	0.001532	0.000959	0.999996
1932	8.563216	0.224990	0.000000	-7.752483	6.532470	-1.146550	0.002109	0.001726	0.002300	0.999982
1933	8.062155	1.317117	1.468720	-6.440688	-5.579395	-2.293101	0.002109	0.001790	0.001555	0.999995
1934	6.294480	1.317117	2.937441	9.920191	-5.579395	-22.931009	0.002105	0.001398	0.001981	0.999987
1935	7.178318	1.403055	5.874881	1.739752	11.522833	-12.612055	0.002103	0.001561	0.000572	0.999998
1936	5.629954	1.178065	0.000000	-8.872889	4.990363	4.586202	0.002102	0.001532	0.000164	1.000000
1937	4.627833	-0.000000	4.406161	-6.249300	0.000000	2.293101	0.002101	0.001916	0.001745	0.999998
1938	8.872889	-0.000000	1.468720	-5.629954	0.000000	-4.586202	0.002100	0.001805	0.002169	0.999994
1939	7.561094	0.224990	1.468720	-5.128894	6.532470	-3.439651	0.002100	0.001817	0.000230	1.000000
1940	7.797663	2.131139	5.874881	5.984808	3.448256	-19.491357	0.002094	0.001773	0.000651	0.999999
1941	5.866523	0.728084	0.000000	2.240813	-8.074577	-11.465504	0.002090	0.001647	0.001434	0.999998
1942	0.929018	0.224990	8.812322	6.367584	6.532470	-10.318954	0.002089	0.001776	0.000587	0.999999
1943	4.008487	1.178065	1.468720	-10.494356	4.990363	9.172403	0.002089	0.001273	0.002918	0.999988
1944	8.062155	1.317117	4.406161	-6.440688	-5.579395	-2.293101	0.002087	0.001856	0.000766	0.999999
1945	2.432201	0.139052	5.874881	2.432201	-10.569758	-6.879303	0.002083	0.001566	0.000699	0.999999
1946	6.868645	0.728084	7.343601	-0.382776	-8.074577	-9.172403	0.002078	0.001669	0.000559	0.999999
1947	4.008487	1.178065	7.343601	-10.494356	4.990363	9.172403	0.002077	0.001591	0.000853	0.999996
1948	8.799785	1.403055	2.937441	3.361219	11.522833	-17.198257	0.002075	0.001706	0.000521	0.999998
1949	6.677257	1.767097	1.468720	3.051546	7.485544	-13.758605	0.002073	0.001710	0.001955	0.999995
1950	7.606275	1.542107	2.937441	9.419130	0.953074	-24.077559	0.002072	0.001597	0.000993	0.999997
1951	0.236569	0.000000	1.468720	11.113701	-0.000000	-16.051706	0.002070	0.001010	0.001638	1.000000
1952	7.752483	2.270191	1.468720	-8.563216	-7.121502	1.146550	0.002066	0.001857	0.001792	0.999986
1953	7.943871	2.131139	5.874881	-11.997539	3.448256	5.732752	0.002062	0.001998	0.000954	0.999990
1954	6.440688	1.317117	7.343601	-8.062155	-5.579395	2.293101	0.002061	0.001594	0.003377	0.999953
1955	4.053668	0.139052	7.343601	4.053668	-10.569758	-11.465504	0.002059	0.001763	0.001284	0.999992
1956	9.728803	0.000000	1.468720	9.728803	0.000000	-27.517210	0.002058	0.001768	0.002089	0.999983
1957	5.939627	1.681159	7.343601	-6.750361	-9.616684	1.146550	0.002053	0.001739	0.000347	0.999999
1958	1.885959	0.364042	8.812322	-10.804029	-4.037288	12.612055	0.002047	0.001639	0.000429	0.999999
1959	8.872889	2.634233	0.000000	-5.629954	-11.158791	-4.586202	0.002047	0.001619	0.002938	0.999922
1960	2.387020	-0.000000	2.937441	-12.115823	0.000000	13.758605	0.002044	0.001377	0.003034	0.999989
1961	7.105214	1.906149	0.000000	10.730925	-3.084214	-25.224110	0.002041	0.001454	0.002759	0.999974
1962	6.249300	0.728084	4.406161	-4.627833	-8.074577	-2.293101	0.002040	0.001698	0.001210	0.999997
1963	9.227742	2.720172	0.000000	11.040598	5.943437	-28.663761	0.002037	0.001970	0.003514	0.999876
1964	8.799785	0.224990	4.406161	3.361219	6.532470	-17.198257	0.002036	0.001803	0.001363	0.999996
1965	8.799785	0.224990	1.468720	3.361219	6.532470	-17.198257	0.002036	0.001744	0.000577	0.999999
1966	4.982686	1.542107	5.874881	10.421252	0.953074	-21.784458	0.002030	0.001761	0.001931	0.999988
1967	3.862280	0.728084	8.812322	7.487991	-8.074577	-16.051706	0.002029	0.001631	0.000362	0.999999
1968	6.294480	1.317117	4.406161	9.920191	-5.579395	-22.931009	0.002020	0.001697	0.001649	0.999989
1969	8.298724	1.317117	1.468720	4.673013	-5.579395	-18.344807	0.002011	0.001862	0.001845	0.999995
1970	9.373950	1.542107	0.000000	-6.941749	0.953074	-3.439651	0.002010	0.001809	0.000481	1.000000
1971	5.675135	0.139052	7.343601	5.675135	-10.569758	-16.051706	0.002010	0.001589	0.000768	0.999996
1972	8.608397	0.364042	4.406161	6.795541	-4.037288	-21.784458	0.002007	0.001726	0.000987	0.999998

1973	9.064277	1.767097	1.468720	-9.064277	7.485544	0.000000	0.002005	0.001966	0.000402	0.999999
1974	4.627833	0.728084	8.812322	-6.249300	-8.074577	2.293101	0.001996	0.001721	0.001478	0.999990
1975	8.872889	2.634233	2.937441	-5.629954	-11.158791	-4.586202	0.001996	0.001747	0.001267	0.999984
1976	4.126772	0.814023	2.937441	-4.937505	9.027651	1.146550	0.001993	0.001778	0.000593	1.000000
1977	5.055790	0.139052	4.406161	1.430079	-10.569758	-9.172403	0.001987	0.001560	0.000267	1.000000
1978	1.694571	0.224990	2.937441	-7.369706	6.532470	8.025853	0.001978	0.001396	0.004006	0.999993
1979	9.109458	0.728084	0.000000	5.483747	-8.074577	-20.637908	0.001973	0.001666	0.001707	0.999990
1980	5.629954	1.178065	2.937441	-8.872889	4.990363	4.586202	0.001972	0.001496	0.001524	0.999996
1981	0.810734	0.139052	0.000000	0.810734	-10.569758	-2.293101	0.001968	0.000967	0.001519	1.000000
1982	7.105214	1.906149	1.468720	10.730925	-3.084214	-25.224110	0.001965	0.001715	0.002488	0.999978
1983	3.051546	0.589032	4.406161	6.677257	2.495181	-13.758605	0.001958	0.001767	0.001669	0.999998
1984	9.182562	1.403055	1.468720	-3.507426	11.522833	-8.025853	0.001958	0.001709	0.000906	0.999994
1985	5.793420	0.953074	0.000000	11.231986	-1.542107	-24.077559	0.001954	0.001600	0.001123	0.999997
1986	6.941749	0.224990	0.000000	-9.373950	6.532470	3.439651	0.001952	0.001449	0.000127	1.000000
1987	6.941749	0.224990	2.937441	-9.373950	6.532470	3.439651	0.001949	0.001578	0.001976	0.999985
1988	9.728803	1.178065	0.000000	9.728803	4.990363	-27.517210	0.001949	0.001867	0.001443	0.999988
1989	6.485869	0.728084	7.343601	6.485869	-8.074577	-18.344807	0.001945	0.001762	0.002198	0.999977
1990	7.060033	0.139052	5.874881	-3.817099	-10.569758	-4.586202	0.001945	0.001685	0.001934	0.999979
1991	8.563216	2.131139	2.937441	-7.752483	3.448256	-1.146550	0.001941	0.001909	0.000170	1.000000
1992	5.939627	0.224990	4.406161	-6.750361	6.532470	1.146550	0.001940	0.001697	0.001926	0.999993
1993	1.812855	0.139052	8.812322	-1.812855	-10.569758	0.000000	0.001939	0.001691	0.002436	0.999973
1994	6.485869	1.178065	2.937441	6.485869	4.990363	-18.344807	0.001929	0.001900	0.001107	0.999998
1995	5.483747	0.728084	5.874881	9.109458	-8.074577	-20.637908	0.001926	0.001600	0.000751	0.999997
1996	6.558973	1.403055	0.000000	-2.505305	11.522833	-5.732752	0.001925	0.001510	0.000694	0.999998
1997	9.419130	2.859223	0.000000	7.606275	-4.626321	-24.077559	0.001915	0.001494	0.000348	1.000000
1998	8.371828	2.270191	2.937441	-4.318160	-7.121502	-5.732752	0.001914	0.001608	0.000378	1.000000
1999	3.051546	0.139052	8.812322	6.677257	-10.569758	-13.758605	0.001910	0.001508	0.001495	0.999979
2000	7.105214	0.000000	1.468720	10.730925	-0.000000	-25.224110	0.001904	0.001507	0.000509	0.999999
2001	7.915948	0.589032	4.406161	11.541658	2.495181	-27.517210	0.001903	0.001426	0.000586	0.999998
2002	8.754604	0.364042	2.937441	-11.186805	-4.037288	3.439651	0.001902	0.001475	0.002983	0.999936
2003	6.986930	0.364042	5.874881	5.174074	-4.037288	-17.198257	0.001901	0.001892	0.000160	1.000000
2004	2.049424	0.589032	8.812322	9.300846	2.495181	-16.051706	0.001900	0.001612	0.003825	0.999953
2005	4.053668	0.139052	5.874881	4.053668	-10.569758	-11.465504	0.001895	0.001628	0.000624	0.999999
2006	9.565338	0.953074	2.937441	-10.376072	-1.542107	1.146550	0.001894	0.001617	0.001124	0.999993
2007	7.251422	1.906149	2.937441	-7.251422	-3.084214	0.000000	0.001881	0.001773	0.000373	1.000000
2008	8.872889	0.728084	4.406161	-5.629954	-8.074577	-4.586202	0.001881	0.001794	0.002500	0.999974
2009	0.810734	0.139052	4.406161	0.810734	-10.569758	-2.293101	0.001880	0.001456	0.002005	0.999996
2010	8.563216	2.131139	0.000000	-7.752483	3.448256	-1.146550	0.001879	0.001769	0.001603	0.999994
2011	4.982686	1.542107	1.468720	10.421252	0.953074	-21.784458	0.001872	0.001621	0.000787	0.999999
2012	6.677257	1.317117	0.000000	3.051546	-5.579395	-13.758605	0.001872	0.001778	0.001855	0.999997
2013	1.430079	0.139052	7.343601	5.055790	-10.569758	-9.172403	0.001870	0.001432	0.000300	1.000000
2014	8.490112	0.728084	1.468720	1.238691	-8.074577	-13.758605	0.001868	0.001807	0.000270	1.000000
2015	3.625711	1.178065	0.000000	-3.625711	4.990363	0.000000	0.001867	0.001414	0.000110	1.000000
2016	5.556851	0.224990	0.000000	0.118284	6.532470	-8.025853	0.001863	0.001842	0.000740	1.000000
2017	7.989051	1.092126	5.874881	2.550485	-12.111865	-14.905156	0.001860	0.001582	0.001655	0.999972
2018	5.055790	0.139052	1.468720	1.430079	-10.569758	-9.172403	0.001858	0.001680	0.002707	0.999989
2019	2.623589	0.728084	7.343601	-1.002122	-8.074577	-2.293101	0.001856	0.001690	0.000480	1.000000
2020	4.436444	0.139052	8.812322	-2.814977	-10.569758	-2.293101	0.001855	0.001626	0.001516	0.999986
2021	8.754604	1.542107	2.937441	-11.186805	0.953074	3.439651	0.001853	0.001785	0.002124	0.999974
2022	3.434323	0.139052	8.812322	-0.191388	-10.569758	-4.586202	0.001851	0.001607	0.000335	0.999999
2023	7.251422	1.906149	0.000000	-7.251422	-3.084214	0.000000	0.001845	0.001657	0.001803	0.999996
2024	5.984808	0.814023	4.406161	7.797663	9.027651	-19.491357	0.001843	0.001471	0.000258	1.000000
2025	4.008487	1.178065	0.000000	-10.494356	4.990363	9.172403	0.001841	0.001461	0.000687	0.999999
2026	5.483747	1.178065	5.874881	9.109458	4.990363	-20.637908	0.001832	0.001481	0.001391	0.999994
2027	8.062155	0.139052	0.000000	-6.440688	-10.569758	-2.293101	0.001828	0.001742	0.000285	0.999999
2028	9.227742	1.542107	1.468720	11.040598	0.953074	-28.663761	0.001828	0.001555	0.001487	0.999987
2029	8.490112	0.728084	2.937441	1.238691	-8.074577	-13.758605	0.001826	0.001644	0.001397	0.999996
2030	4.746117	1.092126	7.343601	-0.692449	-12.111865	-5.732752	0.001825	0.001540	0.003590	0.999909
2031	7.442810	0.589032	1.468720	-10.685744	2.495181	4.586202	0.001824	0.001590	0.000141	1.000000
2032	9.920191	0.139052	0.000000	6.294480	-10.569758	-22.931009	0.001822	0.001638	0.003050	0.999909
2033	7.178318	1.681159	5.874881	1.739752	-9.616684	-12.612055	0.001817	0.001718	0.000757	0.999998
2034	3.316038	0.224990	0.000000	-5.748239	6.532470	3.439651	0.001816	0.001612	0.004268	0.999994
2035	6.440688	1.767097	1.468720	-8.062155	7.485544	2.293101	0.001815	0.001527	0.001716	0.999992
2036	9.182562	0.224990	2.937441	-3.507426	6.532470	-8.025853	0.001812	0.001633	0.001130	0.999997
2037	1.885959	0.364042	5.874881	-10.804029	-4.037288	12.612055	0.001798	0.001486	0.001133	0.999997
2038	1.193510	0.139052	7.343601	-6.057912	-10.569758	6.879303	0.001798	0.001495	0.003025	0.999954
2039	6.632076	1.906149	4.406161	-11.496478	-3.084214	6.879303	0.001793	0.001573	0.002455	0.999966
2040	0.929018	0.224990	5.874881	6.367584	6.532470	-10.318954	0.001789	0.001747	0.000443	1.000000
2041	7.943871	0.953074	4.406161	-11.997539	-1.542107	5.732752	0.001789	0.001658	0.000670	0.999997

2042	5.793420	0.953074	4.406161	11.231986	-1.542107	-24.077559	0.001788	0.001503	0.000154	1.000000
2043	4.126772	0.814023	4.406161	-4.937505	9.027651	1.146550	0.001787	0.001721	0.000807	0.999999
2044	4.171952	0.953074	0.000000	9.610519	-1.542107	-19.491357	0.001785	0.001534	0.005410	0.999979
2045	2.432201	0.139052	7.343601	2.432201	-10.569758	-6.879303	0.001773	0.001565	0.002138	0.999984
2046	8.799785	1.403055	0.000000	3.361219	11.522833	-17.198257	0.001762	0.001621	0.000478	0.999998
2047	4.363341	0.814023	0.000000	6.176196	9.027651	-14.905156	0.001758	0.001585	0.001214	0.999998
2048	2.195632	0.589032	8.812322	-8.681501	2.495181	9.172403	0.001757	0.001609	0.000163	1.000000
2049	7.943871	2.131139	2.937441	-11.997539	3.448256	5.732752	0.001744	0.001576	0.000961	0.999993
2050	5.629954	1.178065	5.874881	-8.872889	4.990363	4.586202	0.001743	0.001728	0.000235	1.000000
2051	2.860158	-0.000000	7.343601	10.111580	-0.000000	-18.344807	0.001737	0.001636	0.001866	0.999990
2052	7.251422	-0.000000	4.406161	-7.251422	0.000000	0.000000	0.001723	0.001708	0.000388	1.000000
2053	7.679379	1.317117	4.406161	0.427957	-5.579395	-11.465504	0.001722	0.001704	0.000778	0.999999
2054	3.051546	0.139052	4.406161	6.677257	-10.569758	-13.758605	0.001709	0.001557	0.001793	0.999991
2055	4.554729	1.403055	4.406161	2.741873	11.522833	-10.318954	0.001701	0.001466	0.000815	0.999998
2056	6.632076	1.906149	5.874881	-11.496478	-3.084214	6.879303	0.001700	0.001637	0.001460	0.999985
2057	4.509548	0.364042	5.874881	-11.806151	-4.037288	10.318954	0.001696	0.001473	0.000456	0.999999
2058	3.507426	0.364042	2.937441	-9.182562	-4.037288	8.025853	0.001672	0.001530	0.002746	0.999993
2059	7.606275	0.364042	1.468720	9.419130	-4.037288	-24.077559	0.001670	0.001525	0.002285	0.999985
2060	7.369706	1.092126	5.874881	-1.694571	-12.111865	-8.025853	0.001665	0.001640	0.000442	0.999998
2061	1.931140	0.224990	4.406161	3.743995	6.532470	-8.025853	0.001658	0.001652	0.001638	0.999999
2062	1.430079	0.139052	4.406161	5.055790	-10.569758	-9.172403	0.001655	0.001493	0.005356	0.999954
2063	7.943871	0.953074	2.937441	-11.997539	-1.542107	5.732752	0.001650	0.001581	0.001091	0.999992
2064	4.008487	1.178065	4.406161	-10.494356	4.990363	9.172403	0.001647	0.001511	0.001962	0.999990
2065	6.632076	1.906149	1.468720	-11.496478	-3.084214	6.879303	0.001645	0.001340	0.001837	0.999986
2066	6.440688	1.767097	7.343601	-8.062155	7.485544	2.293101	0.001643	0.001576	0.001161	0.999992
2067	2.432201	0.139052	4.406161	2.432201	-10.569758	-6.879303	0.001642	0.001553	0.002931	0.999988
2068	4.008487	1.178065	5.874881	-10.494356	4.990363	9.172403	0.001629	0.001561	0.001698	0.999989
2069	0.810734	0.139052	5.874881	0.810734	-10.569758	-2.293101	0.001623	0.001427	0.003653	0.999976
2070	5.055790	0.139052	5.874881	1.430079	-10.569758	-9.172403	0.001612	0.001567	0.000561	0.999999
2071	9.182562	1.403055	2.937441	-3.507426	11.522833	-8.025853	0.001608	0.001540	0.002994	0.999923
2072	5.675135	0.139052	4.406161	5.675135	-10.569758	-16.051706	0.001601	0.001564	0.000139	1.000000
2073	2.049424	0.589032	4.406161	9.300846	2.495181	-16.051706	0.001601	0.001589	0.000670	1.000000
2074	3.316038	0.953074	1.468720	-5.748239	-1.542107	3.439651	0.001593	0.001547	0.001405	1.000000
2075	4.982686	1.542107	7.343601	10.421252	0.953074	-21.784458	0.001591	0.001577	0.000347	1.000000
2076	4.008487	-0.000000	1.468720	-10.494356	0.000000	9.172403	0.001581	0.001381	0.002070	0.999996
2077	8.608397	2.720172	0.000000	6.795541	5.943437	-21.784458	0.001569	0.001532	0.001495	0.999994
2078	7.797663	1.681159	5.874881	5.984808	-9.616684	-19.491357	0.001561	0.001407	0.000537	0.999998
2079	6.986930	0.814023	1.468720	5.174074	9.027651	-17.198257	0.001559	0.001445	0.002542	0.999984
2080	4.053668	0.139052	4.406161	4.053668	-10.569758	-11.465504	0.001557	0.001386	0.000756	0.999999
2081	1.885959	0.364042	0.000000	-10.804029	-4.037288	12.612055	0.001550	0.001055	0.000118	1.000000
2082	5.984808	0.814023	7.343601	7.797663	9.027651	-19.491357	0.001547	0.001512	0.000582	0.999997
2083	5.483747	1.178065	0.000000	9.109458	4.990363	-20.637908	0.001542	0.001511	0.002409	0.999991
2084	1.430079	0.139052	5.874881	5.055790	-10.569758	-9.172403	0.001515	0.001464	0.000926	0.999998
2085	4.008487	1.178065	2.937441	-10.494356	4.990363	9.172403	0.001468	0.001448	0.002521	0.999988
2086	7.989051	1.092126	1.468720	2.550485	-12.111865	-14.905156	0.001436	0.001371	0.001273	0.999989
2087	1.931140	0.224990	1.468720	3.743995	6.532470	-8.025853	0.001434	0.001229	0.002433	0.999999
2088	1.193510	0.139052	0.000000	-6.057912	-10.569758	6.879303	0.001364	0.001009	0.003086	0.999999
2089	1.193510	0.139052	2.937441	-6.057912	-10.569758	6.879303	0.001359	0.001304	0.001253	0.999999
2090	3.434323	0.139052	1.468720	-0.191388	-10.569758	-4.586202	0.001336	0.001196	0.001293	0.999999
2091	0.810734	0.139052	1.468720	0.810734	-10.569758	-2.293101	0.001259	0.001124	0.000122	1.000000
2092	2.550485	0.224990	0.000000	7.989051	6.532470	-14.905156	0.001183	0.001176	0.002709	0.999998

Table S2. Atomic structure of *d*-Al-Cu-Rh. List of atomic positions (*x,y,z*) concentrations of elements (p_{Al} , p_{Cu} , p_{Rh}), site occupation (sof), ADPs (d_{xy} , d_{zz}), and atomic fraction in unit rhomb (fraction). The last row shows the phasonic ADP (b_{phas}).

no.	unit rhomb	<i>x</i>	<i>y</i>	<i>z</i>	p_{Al}	p_{Cu}	p_{Rh}	sof	d_{xy}	d_{zz}	fraction
1	thick	0.000000	0.000000	1.069500	0.000000	0.000000	1.000000	1.000000	0.157905	5.099717	0.200000
2	thick	0.230389	0.228969	2.336699	0.000000	0.000000	1.000000	0.349549	0.201980	1.223862	1.000000
3	thick	0.316997	0.316708	1.069500	1.000000	0.000000	0.000000	1.000000	1.469343	3.260871	1.000000
4	thick	0.532501	0.532294	1.069500	0.000000	0.000000	1.000000	1.000000	1.912370	0.983659	1.000000
5	thick	0.765005	0.764936	1.221443	1.000000	0.000000	0.000000	1.000000	3.418922	6.700046	1.000000
6	thick	0.851265	0.851688	1.069500	0.000000	0.000000	1.000000	1.000000	5.658769	0.081974	1.000000
7	thick	0.149878	-0.001617	1.217418	1.000000	0.000000	0.000000	1.000000	6.632970	0.102061	1.000000
8	thick	0.459000	-0.000075	1.069500	1.000000	0.000000	0.000000	1.000000	2.385396	1.574038	0.500000
9	thick	0.860089	-0.000002	1.069500	0.000000	1.000000	0.000000	1.000000	3.842954	0.386642	0.500000
10	thick	1.000000	-0.000001	2.286637	0.000000	1.000000	0.000000	0.782550	4.086865	1.336254	0.300000
11	thick	0.999999	0.377789	1.069500	0.000000	0.000000	1.000000	1.000000	0.048433	4.722199	0.500000
12	thick	1.000005	0.850905	1.069500	1.000000	0.000000	0.000000	1.000000	1.216117	2.363321	0.500000
13	thick	0.272191	0.062148	1.069500	0.000000	1.000000	0.000000	0.572133	4.649106	3.012544	1.000000
14	thick	0.379064	0.146820	1.069500	0.000000	0.000000	1.000000	1.000000	3.760424	0.076309	1.000000
15	thick	0.523479	0.149701	1.069500	1.000000	0.000000	0.000000	1.000000	2.504948	0.407973	1.000000
16	thick	0.709297	0.085080	1.243373	1.000000	0.000000	0.000000	1.000000	2.483016	2.538705	1.000000
17	thick	0.616840	0.241543	1.069500	0.000000	0.000000	1.000000	1.000000	0.314139	4.522173	1.000000
18	thick	0.777170	0.227423	1.069500	1.000000	0.000000	0.000000	1.000000	1.794963	0.507755	1.000000
19	thick	0.620576	0.381681	1.453969	1.000000	0.000000	0.000000	1.000000	3.591780	5.360392	1.000000
20	thick	0.917062	0.134546	1.069500	0.000000	1.000000	0.000000	1.000000	0.332551	4.254820	1.000000
21	thick	0.910997	0.285506	1.069500	1.000000	0.000000	0.000000	1.000000	0.310482	4.800352	1.000000
22	thick	0.852590	0.475603	1.069500	1.000000	0.000000	0.000000	1.000000	0.476045	5.151422	1.000000
23	thick	0.755011	0.623739	1.069500	0.000000	1.000000	0.000000	1.000000	0.110277	5.182082	1.000000
24	thick	0.149775	0.149746	2.938696	1.000000	0.000000	0.000000	1.000000	0.659233	1.347051	1.000000
25	thick	0.380722	0.381070	3.208500	0.000000	0.000000	1.000000	1.000000	4.858019	0.052889	1.000000
26	thick	0.473213	0.474623	2.927106	1.000000	0.000000	0.000000	1.000000	5.426326	2.203239	1.000000
27	thick	0.679929	0.679885	3.039587	1.000000	0.000000	0.000000	1.000000	3.183257	3.751364	1.000000
28	thick	0.917461	0.917546	3.107539	0.000000	1.000000	0.000000	1.000000	5.393504	0.229815	1.000000
29	thick	1.000003	1.000003	1.928488	0.000000	1.000000	0.000000	0.772990	1.938903	1.957100	0.200000
30	thick	0.237912	-0.000002	3.208500	0.000000	0.000000	1.000000	1.000000	0.079372	5.525705	0.500000
31	thick	0.621144	-0.000002	2.586123	1.000000	0.000000	0.000000	1.000000	0.402268	6.021372	0.500000
32	thick	0.760195	-0.000000	3.208500	0.000000	1.000000	0.000000	1.000000	0.069223	5.302253	0.500000
33	thick	1.000001	0.162918	3.208500	1.000000	0.000000	0.000000	1.000000	2.388573	2.709766	0.500000
34	thick	1.000000	0.472616	3.005487	1.000000	0.000000	0.000000	1.000000	3.003449	5.155468	0.500000
35	thick	0.999997	0.619357	3.208500	0.000000	0.000000	1.000000	1.000000	3.954193	0.088647	0.500000
36	thick	0.342786	0.082352	3.084092	1.000000	0.000000	0.000000	1.000000	2.614840	3.083160	1.000000
37	thick	0.486769	0.088790	3.208500	0.000000	1.000000	0.000000	1.000000	0.067522	4.112377	1.000000
38	thick	0.392847	0.228801	3.208500	1.000000	0.000000	0.000000	1.000000	2.316149	2.306921	1.000000
39	thick	0.630517	0.135392	3.208500	1.000000	0.000000	0.000000	1.000000	1.206392	1.469506	1.000000
40	thick	0.527319	0.290059	2.863242	1.000000	0.000000	0.000000	1.000000	6.802673	4.200091	1.000000
41	thick	0.850973	0.089447	3.208500	1.000000	0.000000	0.000000	1.000000	4.243930	4.649138	1.000000
42	thick	0.846318	0.234399	3.208500	0.000000	0.000000	1.000000	1.000000	0.040029	4.244571	1.000000
43	thick	0.624129	0.467852	3.208500	1.000000	0.000000	0.000000	0.898549	6.928504	3.505672	1.000000
44	thick	0.773629	0.383350	3.008147	1.000000	0.000000	0.000000	1.000000	3.360144	1.730916	1.000000
45	thick	0.938877	0.343322	3.208500	0.000000	1.000000	0.000000	0.657128	4.922859	2.551535	1.000000

46	thick	0.770359	0.518273	3.208500	0.000000	0.000000	1.000000	1.000000	1.058759	3.606616	1.000000
47	thick	0.854098	0.616733	3.208500	1.000000	0.000000	0.000000	1.000000	1.691805	5.136099	1.000000
48	thick	0.906596	0.769320	3.208500	1.000000	0.000000	0.000000	1.000000	2.117605	5.997348	1.000000
49	thick	0.897263	0.677563	1.069500	1.000000	0.000000	0.000000	1.000000	0.461394	0.774783	1.000000
50	thick	0.056685	0.056692	3.208500	1.000000	0.000000	0.000000	0.751673	3.222183	3.683092	1.000000
51	thick	0.441074	0.441074	1.205113	1.000000	0.000000	0.000000	1.000000	6.895710	1.985937	1.000000
52	thick	0.678402	0.532626	1.069500	1.000000	0.000000	0.000000	1.000000	3.693121	2.338765	1.000000
53	thick	0.682369	0.284264	3.208500	1.000000	0.000000	0.000000	1.000000	2.696463	2.448805	1.000000
54	thick	0.233878	0.233161	1.441415	0.000000	0.000000	1.000000	0.073274	0.681742	1.345263	1.000000
55	thick	1.000000	-0.000001	1.328275	0.000000	1.000000	0.000000	0.250384	3.891646	3.321390	0.300000
56	thick	1.000003	1.000003	2.659711	0.000000	1.000000	0.000000	0.437658	5.690461	4.669743	0.200000
57	thin	0.000000	0.000000	1.069500	0.000000	0.000000	1.000000	1.000000	0.089819	5.760347	0.400000
58	thin	0.239215	0.238694	1.414403	1.000000	0.000000	0.000000	1.000000	3.593704	0.368821	1.000000
59	thin	0.756681	0.757325	1.069500	1.000000	0.000000	0.000000	1.000000	1.012820	2.174981	1.000000
60	thin	0.000002	0.149964	1.220188	1.000000	0.000000	0.000000	1.000000	0.647713	2.025447	0.500000
61	thin	0.001499	0.468523	1.233248	1.000000	0.000000	0.000000	1.000000	4.585498	0.586314	1.000000
62	thin	-0.000003	0.860102	1.069500	0.000000	1.000000	0.000000	1.000000	2.517476	4.118375	0.500000
63	thin	-0.000005	0.999999	2.177351	0.000000	1.000000	0.000000	0.537727	3.565279	2.033812	0.100000
64	thin	0.380692	1.000000	1.069500	0.000000	0.000000	1.000000	1.000000	3.524559	0.166393	0.500000
65	thin	0.837032	0.999996	1.069500	1.000000	0.000000	0.000000	1.000000	2.339034	2.671500	0.500000
66	thin	0.169365	0.399583	1.069500	0.000000	1.000000	0.000000	1.000000	5.278735	0.089745	1.000000
67	thin	0.246434	0.614097	1.069500	0.000000	0.000000	1.000000	1.000000	0.562729	2.957003	1.000000
68	thin	0.374109	0.473442	1.069500	1.000000	0.000000	0.000000	1.000000	0.549065	0.811657	1.000000
69	thin	0.138269	0.849203	1.290687	1.000000	0.000000	0.000000	1.000000	3.152224	0.598794	1.000000
70	thin	0.240419	0.763421	1.069500	1.000000	0.000000	0.000000	1.000000	0.919032	2.021681	1.000000
71	thin	0.379805	0.618415	2.325512	0.000000	0.000000	1.000000	1.000000	2.218268	1.682519	1.000000
72	thin	0.514838	0.845990	1.069500	0.000000	1.000000	0.000000	1.000000	4.836156	1.594725	1.000000
73	thin	0.617629	0.772524	1.069500	0.000000	0.000000	1.000000	1.000000	2.435633	1.456958	1.000000
74	thin	0.400684	0.400808	3.208500	0.000000	1.000000	0.000000	1.000000	3.826258	0.679065	1.000000
75	thin	1.000004	1.000004	1.895166	0.000000	1.000000	0.000000	0.729771	3.926707	3.522566	0.400000
76	thin	0.000004	0.237936	3.208500	0.000000	0.000000	1.000000	1.000000	1.713101	1.729959	0.500000
77	thin	-0.000006	0.621615	2.925042	1.000000	0.000000	0.000000	1.000000	1.560106	2.919604	0.500000
78	thin	0.000004	0.759999	3.208500	0.000000	1.000000	0.000000	1.000000	0.230316	2.971460	0.500000
79	thin	0.149005	1.000004	3.208500	1.000000	0.000000	0.000000	1.000000	1.800400	2.674649	0.500000
80	thin	0.470275	0.997764	2.953153	1.000000	0.000000	0.000000	1.000000	0.318662	3.700663	1.000000
81	thin	0.622249	1.000001	3.208500	0.000000	0.000000	1.000000	1.000000	0.110950	2.514671	0.500000
82	thin	0.151424	0.480401	3.208500	1.000000	0.000000	0.000000	1.000000	0.173466	2.973843	1.000000
83	thin	0.236772	0.382630	3.208500	1.000000	0.000000	0.000000	1.000000	3.560883	5.844607	1.000000
84	thin	0.124554	0.598926	3.208500	0.000000	1.000000	0.000000	1.000000	0.084885	3.442846	1.000000
85	thin	0.242652	0.864908	3.208500	1.000000	0.000000	0.000000	0.763771	2.907150	1.746981	1.000000
86	thin	0.373084	0.761701	3.096607	1.000000	0.000000	0.000000	1.000000	1.020370	3.259393	1.000000
87	thin	0.528560	0.627887	3.208500	1.000000	0.000000	0.000000	1.000000	0.292552	4.033926	1.000000
88	thin	0.627034	0.857525	3.208500	1.000000	0.000000	0.000000	1.000000	6.788883	1.409209	1.000000
89	thin	0.776577	0.861100	3.208500	0.000000	1.000000	0.000000	1.000000	0.158603	5.555021	1.000000
90	thin	0.097162	0.144617	3.043078	1.000000	0.000000	0.000000	0.506659	6.567222	2.711150	1.000000
91	thin	-0.000005	0.999999	1.530375	0.000000	1.000000	0.000000	0.384975	3.808277	3.524776	0.100000
92	thin	1.000004	1.000004	2.718028	0.000000	1.000000	0.000000	0.515149	2.765373	3.073540	0.400000