

Theta [deg.] [deg.]	Phi [deg.] Abs(Phi ) [dB ]	Abs(Grlz) [dB ] Phase(Phi ) [deg.]	Abs(Theta) [dB ] Ax.Ratio [dB ]	Phase(Theta)
0.000	90.000	-1.807e+001	-3.283e+001	
343.935	-1.822e+001	71.854	1.462e+001	
1.000	90.000	-1.818e+001	-3.290e+001	
343.927	-1.833e+001	72.061	1.458e+001	
2.000	90.000	-1.850e+001	-3.312e+001	
343.909	-1.865e+001	72.724	1.447e+001	
3.000	90.000	-1.906e+001	-3.349e+001	
343.878	-1.922e+001	73.925	1.427e+001	
4.000	90.000	-1.988e+001	-3.402e+001	
343.829	-2.005e+001	75.841	1.397e+001	
5.000	90.000	-2.103e+001	-3.474e+001	
343.755	-2.122e+001	78.814	1.356e+001	
6.000	90.000	-2.258e+001	-3.569e+001	
343.644	-2.280e+001	83.562	1.303e+001	
7.000	90.000	-2.467e+001	-3.691e+001	
343.472	-2.494e+001	91.719	1.248e+001	
8.000	90.000	-2.735e+001	-3.851e+001	
343.192	-2.769e+001	107.433	1.271e+001	
9.000	90.000	-2.974e+001	-4.066e+001	
342.698	-3.011e+001	139.108	1.913e+001	
10.000	90.000	-2.894e+001	-4.372e+001	
341.688	-2.908e+001	179.928	2.499e+001	
11.000	90.000	-2.575e+001	-4.878e+001	
338.878	-2.577e+001	204.813	2.590e+001	
12.000	90.000	-2.274e+001	-6.220e+001	
313.077	-2.274e+001	217.341	3.950e+001	
13.000	90.000	-2.032e+001	-5.248e+001	
175.801	-2.032e+001	224.558	3.463e+001	
14.000	90.000	-1.837e+001	-4.544e+001	
170.330	-1.837e+001	229.374	2.841e+001	
15.000	90.000	-1.677e+001	-4.165e+001	
168.920	-1.678e+001	232.983	2.579e+001	
16.000	90.000	-1.544e+001	-3.908e+001	
168.392	-1.546e+001	235.937	2.431e+001	
17.000	90.000	-1.432e+001	-3.719e+001	
168.204	-1.434e+001	238.526	2.337e+001	
18.000	90.000	-1.337e+001	-3.572e+001	
168.206	-1.340e+001	240.917	2.273e+001	
19.000	90.000	-1.256e+001	-3.455e+001	
168.335	-1.259e+001	243.213	2.227e+001	
20.000	90.000	-1.187e+001	-3.362e+001	
168.565	-1.190e+001	245.484	2.195e+001	
21.000	90.000	-1.129e+001	-3.287e+001	
168.886	-1.132e+001	247.779	2.172e+001	
22.000	90.000	-1.079e+001	-3.228e+001	
169.296	-1.083e+001	250.134	2.157e+001	
23.000	90.000	-1.038e+001	-3.182e+001	
169.798	-1.041e+001	252.579	2.148e+001	
24.000	90.000	-1.004e+001	-3.149e+001	
170.402	-1.007e+001	255.139	2.146e+001	
25.000	90.000	-9.753e+000	-3.125e+001	
171.119	-9.784e+000	257.834	2.148e+001	
26.000	90.000	-9.527e+000	-3.112e+001	
171.967	-9.557e+000	260.682	2.157e+001	
27.000	90.000	-9.348e+000	-3.108e+001	
172.967	-9.377e+000	263.700	2.171e+001	
28.000	90.000	-9.212e+000	-3.114e+001	
174.145	-9.240e+000	266.901	2.190e+001	
29.000	90.000	-9.113e+000	-3.127e+001	
175.538	-9.139e+000	270.296	2.216e+001	

30.000	90.000	-9.043e+000	-3.149e+001
177.188	-9.068e+000	273.894	2.249e+001
31.000	90.000	-8.997e+000	-3.180e+001
179.151	-9.020e+000	277.700	2.288e+001
32.000	90.000	-8.970e+000	-3.218e+001
181.500	-8.991e+000	281.715	2.333e+001
33.000	90.000	-8.954e+000	-3.264e+001
184.325	-8.973e+000	285.941	2.385e+001
34.000	90.000	-8.946e+000	-3.318e+001
187.738	-8.962e+000	290.359	2.443e+001
35.000	90.000	-8.938e+000	-3.377e+001
191.883	-8.953e+000	294.965	2.505e+001
36.000	90.000	-8.927e+000	-3.441e+001
196.928	-8.939e+000	299.741	2.569e+001
37.000	90.000	-8.907e+000	-3.507e+001
203.050	-8.918e+000	304.664	2.633e+001
38.000	90.000	-8.876e+000	-3.569e+001
210.399	-8.885e+000	309.711	2.693e+001
39.000	90.000	-8.830e+000	-3.622e+001
219.015	-8.838e+000	314.854	2.743e+001
40.000	90.000	-8.769e+000	-3.657e+001
228.721	-8.776e+000	320.067	2.780e+001
41.000	90.000	-8.691e+000	-3.668e+001
239.056	-8.698e+000	325.323	2.800e+001
42.000	90.000	-8.597e+000	-3.651e+001
249.351	-8.604e+000	330.599	2.801e+001
43.000	90.000	-8.488e+000	-3.611e+001
258.959	-8.495e+000	335.876	2.785e+001
44.000	90.000	-8.364e+000	-3.554e+001
267.465	-8.372e+000	341.138	2.753e+001
45.000	90.000	-8.226e+000	-3.488e+001
274.734	-8.236e+000	346.373	2.710e+001
46.000	90.000	-8.077e+000	-3.418e+001
280.832	-8.088e+000	351.574	2.660e+001
47.000	90.000	-7.917e+000	-3.350e+001
285.918	-7.929e+000	356.737	2.607e+001
48.000	90.000	-7.747e+000	-3.284e+001
290.171	-7.761e+000	1.861	2.554e+001
49.000	90.000	-7.569e+000	-3.224e+001
293.758	-7.583e+000	6.943	2.503e+001
50.000	90.000	-7.381e+000	-3.168e+001
296.816	-7.397e+000	11.986	2.458e+001
51.000	90.000	-7.184e+000	-3.118e+001
299.460	-7.201e+000	16.988	2.418e+001
52.000	90.000	-6.977e+000	-3.072e+001
301.777	-6.996e+000	21.951	2.386e+001
53.000	90.000	-6.761e+000	-3.032e+001
303.840	-6.780e+000	26.871	2.361e+001
54.000	90.000	-6.534e+000	-2.997e+001
305.704	-6.554e+000	31.745	2.344e+001
55.000	90.000	-6.296e+000	-2.966e+001
307.414	-6.316e+000	36.566	2.334e+001
56.000	90.000	-6.045e+000	-2.938e+001
309.009	-6.066e+000	41.331	2.333e+001
57.000	90.000	-5.783e+000	-2.915e+001
310.517	-5.803e+000	46.029	2.339e+001
58.000	90.000	-5.508e+000	-2.895e+001
311.964	-5.528e+000	50.652	2.352e+001
59.000	90.000	-5.221e+000	-2.878e+001
313.371	-5.240e+000	55.190	2.372e+001
60.000	90.000	-4.922e+000	-2.863e+001
314.755	-4.941e+000	59.633	2.399e+001
61.000	90.000	-4.612e+000	-2.851e+001
316.131	-4.630e+000	63.973	2.432e+001

62.000	90.000	-4.291e+000	-2.842e+001
317.511	-4.308e+000	68.202	2.469e+001
63.000	90.000	-3.961e+000	-2.834e+001
318.907	-3.977e+000	72.312	2.512e+001
64.000	90.000	-3.623e+000	-2.828e+001
320.328	-3.638e+000	76.298	2.557e+001
65.000	90.000	-3.278e+000	-2.824e+001
321.781	-3.292e+000	80.157	2.606e+001
66.000	90.000	-2.927e+000	-2.821e+001
323.272	-2.940e+000	83.886	2.658e+001
67.000	90.000	-2.572e+000	-2.818e+001
324.806	-2.584e+000	87.484	2.710e+001
68.000	90.000	-2.214e+000	-2.817e+001
326.386	-2.225e+000	90.952	2.764e+001
69.000	90.000	-1.854e+000	-2.816e+001
328.013	-1.864e+000	94.290	2.817e+001
70.000	90.000	-1.494e+000	-2.815e+001
329.688	-1.503e+000	97.501	2.871e+001
71.000	90.000	-1.133e+000	-2.815e+001
331.410	-1.142e+000	100.589	2.923e+001
72.000	90.000	-7.736e-001	-2.814e+001
333.175	-7.816e-001	103.556	2.973e+001
73.000	90.000	-4.158e-001	-2.813e+001
334.978	-4.232e-001	106.406	3.022e+001
74.000	90.000	-6.037e-002	-2.812e+001
336.815	-6.717e-002	109.143	3.068e+001
75.000	90.000	2.922e-001	-2.809e+001
338.677	2.859e-001	111.771	3.112e+001
76.000	90.000	6.415e-001	-2.806e+001
340.556	6.357e-001	114.295	3.153e+001
77.000	90.000	9.872e-001	-2.803e+001
342.443	9.817e-001	116.717	3.191e+001
78.000	90.000	1.329e+000	-2.798e+001
344.326	1.324e+000	119.042	3.227e+001
79.000	90.000	1.667e+000	-2.792e+001
346.196	1.662e+000	121.273	3.260e+001
80.000	90.000	2.000e+000	-2.784e+001
348.042	1.995e+000	123.412	3.291e+001
81.000	90.000	2.329e+000	-2.776e+001
349.852	2.325e+000	125.464	3.320e+001
82.000	90.000	2.653e+000	-2.767e+001
351.617	2.649e+000	127.430	3.346e+001
83.000	90.000	2.973e+000	-2.757e+001
353.327	2.969e+000	129.313	3.370e+001
84.000	90.000	3.288e+000	-2.745e+001
354.973	3.285e+000	131.114	3.393e+001
85.000	90.000	3.599e+000	-2.733e+001
356.547	3.595e+000	132.836	3.414e+001
86.000	90.000	3.904e+000	-2.720e+001
358.043	3.901e+000	134.481	3.434e+001
87.000	90.000	4.205e+000	-2.706e+001
359.455	4.201e+000	136.049	3.453e+001
88.000	90.000	4.500e+000	-2.692e+001
0.778	4.497e+000	137.542	3.471e+001
89.000	90.000	4.791e+000	-2.677e+001
2.010	4.788e+000	138.960	3.488e+001
90.000	90.000	5.077e+000	-2.662e+001
3.148	5.074e+000	140.306	3.505e+001
91.000	90.000	5.357e+000	-2.647e+001
4.191	5.354e+000	141.578	3.521e+001
92.000	90.000	5.632e+000	-2.631e+001
5.137	5.629e+000	142.778	3.537e+001
93.000	90.000	5.902e+000	-2.616e+001
5.987	5.899e+000	143.905	3.553e+001

94.000	90.000	6.166e+000	-2.600e+001
6.742	6.163e+000	144.962	3.569e+001
95.000	90.000	6.424e+000	-2.585e+001
7.402	6.422e+000	145.946	3.586e+001
96.000	90.000	6.677e+000	-2.570e+001
7.969	6.674e+000	146.860	3.602e+001
97.000	90.000	6.923e+000	-2.555e+001
8.444	6.921e+000	147.702	3.618e+001
98.000	90.000	7.164e+000	-2.541e+001
8.829	7.161e+000	148.472	3.635e+001
99.000	90.000	7.397e+000	-2.528e+001
9.125	7.395e+000	149.170	3.652e+001
100.000	90.000	7.625e+000	-2.515e+001
9.335	7.622e+000	149.796	3.670e+001
101.000	90.000	7.845e+000	-2.503e+001
9.460	7.843e+000	150.350	3.687e+001
102.000	90.000	8.058e+000	-2.491e+001
9.501	8.056e+000	150.831	3.706e+001
103.000	90.000	8.265e+000	-2.481e+001
9.461	8.262e+000	151.238	3.724e+001
104.000	90.000	8.463e+000	-2.471e+001
9.341	8.461e+000	151.570	3.743e+001
105.000	90.000	8.654e+000	-2.463e+001
9.142	8.652e+000	151.828	3.763e+001
106.000	90.000	8.837e+000	-2.455e+001
8.865	8.835e+000	152.010	3.783e+001
107.000	90.000	9.012e+000	-2.449e+001
8.510	9.010e+000	152.114	3.804e+001
108.000	90.000	9.178e+000	-2.444e+001
8.079	9.176e+000	152.140	3.825e+001
109.000	90.000	9.335e+000	-2.440e+001
7.571	9.334e+000	152.087	3.846e+001
110.000	90.000	9.484e+000	-2.438e+001
6.986	9.482e+000	151.952	3.869e+001
111.000	90.000	9.624e+000	-2.437e+001
6.324	9.622e+000	151.734	3.892e+001
112.000	90.000	9.754e+000	-2.438e+001
5.584	9.752e+000	151.432	3.915e+001
113.000	90.000	9.875e+000	-2.441e+001
4.763	9.873e+000	151.043	3.940e+001
114.000	90.000	9.986e+000	-2.446e+001
3.860	9.984e+000	150.565	3.965e+001
115.000	90.000	1.009e+001	-2.452e+001
2.871	1.009e+001	149.995	3.992e+001
116.000	90.000	1.018e+001	-2.461e+001
1.794	1.018e+001	149.331	4.000e+001
117.000	90.000	1.026e+001	-2.472e+001
0.622	1.026e+001	148.569	4.000e+001
118.000	90.000	1.033e+001	-2.485e+001
359.350	1.033e+001	147.707	4.000e+001
119.000	90.000	1.039e+001	-2.501e+001
357.971	1.039e+001	146.741	4.000e+001
120.000	90.000	1.045e+001	-2.520e+001
356.474	1.045e+001	145.667	4.000e+001
121.000	90.000	1.049e+001	-2.541e+001
354.849	1.049e+001	144.481	4.000e+001
122.000	90.000	1.052e+001	-2.566e+001
353.082	1.052e+001	143.179	4.000e+001
123.000	90.000	1.055e+001	-2.594e+001
351.154	1.055e+001	141.757	4.000e+001
124.000	90.000	1.057e+001	-2.626e+001
349.045	1.057e+001	140.211	4.000e+001
125.000	90.000	1.058e+001	-2.661e+001
346.728	1.058e+001	138.537	4.000e+001

126.000	90.000	1.058e+001	-2.701e+001
344.166	1.058e+001	136.727	4.000e+001
127.000	90.000	1.058e+001	-2.745e+001
341.322	1.058e+001	134.783	4.000e+001
128.000	90.000	1.057e+001	-2.794e+001
338.141	1.057e+001	132.700	4.000e+001
129.000	90.000	1.056e+001	-2.847e+001
334.557	1.056e+001	130.476	4.000e+001
130.000	90.000	1.055e+001	-2.905e+001
330.487	1.055e+001	128.109	4.000e+001
131.000	90.000	1.054e+001	-2.967e+001
325.828	1.054e+001	125.600	4.000e+001
132.000	90.000	1.054e+001	-3.033e+001
320.457	1.054e+001	122.951	4.000e+001
133.000	90.000	1.053e+001	-3.101e+001
314.231	1.053e+001	120.167	4.000e+001
134.000	90.000	1.054e+001	-3.169e+001
307.003	1.054e+001	117.253	4.000e+001
135.000	90.000	1.055e+001	-3.234e+001
298.652	1.055e+001	114.220	4.000e+001
136.000	90.000	1.058e+001	-3.288e+001
289.146	1.058e+001	111.078	4.000e+001
137.000	90.000	1.061e+001	-3.328e+001
278.618	1.061e+001	107.844	4.000e+001
138.000	90.000	1.066e+001	-3.346e+001
267.419	1.066e+001	104.533	4.000e+001
139.000	90.000	1.073e+001	-3.341e+001
256.075	1.073e+001	101.166	4.000e+001
140.000	90.000	1.081e+001	-3.314e+001
245.130	1.081e+001	97.762	4.000e+001
141.000	90.000	1.091e+001	-3.270e+001
234.984	1.091e+001	94.344	4.000e+001
142.000	90.000	1.102e+001	-3.216e+001
225.812	1.102e+001	90.932	4.000e+001
143.000	90.000	1.115e+001	-3.157e+001
217.607	1.115e+001	87.547	4.000e+001
144.000	90.000	1.129e+001	-3.097e+001
210.252	1.129e+001	84.209	4.000e+001
145.000	90.000	1.144e+001	-3.040e+001
203.591	1.144e+001	80.934	4.000e+001
146.000	90.000	1.161e+001	-2.986e+001
197.464	1.160e+001	77.737	4.000e+001
147.000	90.000	1.177e+001	-2.938e+001
191.725	1.177e+001	74.629	4.000e+001
148.000	90.000	1.195e+001	-2.894e+001
186.248	1.195e+001	71.623	4.000e+001
149.000	90.000	1.213e+001	-2.854e+001
180.927	1.213e+001	68.720	4.000e+001
150.000	90.000	1.231e+001	-2.819e+001
175.674	1.231e+001	65.927	4.000e+001
151.000	90.000	1.248e+001	-2.787e+001
170.415	1.248e+001	63.247	4.000e+001
152.000	90.000	1.266e+001	-2.759e+001
165.094	1.266e+001	60.678	4.000e+001
153.000	90.000	1.283e+001	-2.732e+001
159.666	1.283e+001	58.220	4.000e+001
154.000	90.000	1.299e+001	-2.706e+001
154.109	1.299e+001	55.872	4.000e+001
155.000	90.000	1.315e+001	-2.680e+001
148.417	1.315e+001	53.631	3.998e+001
156.000	90.000	1.330e+001	-2.653e+001
142.604	1.330e+001	51.493	3.983e+001
157.000	90.000	1.344e+001	-2.623e+001
136.709	1.344e+001	49.454	3.968e+001

158.000	90.000	1.357e+001	-2.590e+001
130.787	1.357e+001	47.513	3.953e+001
159.000	90.000	1.369e+001	-2.554e+001
124.910	1.369e+001	45.664	3.939e+001
160.000	90.000	1.380e+001	-2.514e+001
119.156	1.380e+001	43.905	3.924e+001
161.000	90.000	1.390e+001	-2.471e+001
113.601	1.390e+001	42.233	3.908e+001
162.000	90.000	1.399e+001	-2.425e+001
108.313	1.399e+001	40.645	3.892e+001
163.000	90.000	1.407e+001	-2.377e+001
103.346	1.407e+001	39.140	3.875e+001
164.000	90.000	1.414e+001	-2.327e+001
98.735	1.414e+001	37.716	3.858e+001
165.000	90.000	1.421e+001	-2.277e+001
94.499	1.421e+001	36.369	3.839e+001
166.000	90.000	1.426e+001	-2.227e+001
90.643	1.426e+001	35.104	3.821e+001
167.000	90.000	1.431e+001	-2.179e+001
87.161	1.431e+001	33.917	3.802e+001
168.000	90.000	1.435e+001	-2.133e+001
84.040	1.435e+001	32.810	3.784e+001
169.000	90.000	1.438e+001	-2.089e+001
81.261	1.438e+001	31.783	3.765e+001
170.000	90.000	1.441e+001	-2.048e+001
78.805	1.441e+001	30.838	3.747e+001
171.000	90.000	1.443e+001	-2.010e+001
76.650	1.443e+001	29.974	3.730e+001
172.000	90.000	1.445e+001	-1.976e+001
74.777	1.445e+001	29.195	3.713e+001
173.000	90.000	1.447e+001	-1.945e+001
73.168	1.446e+001	28.502	3.698e+001
174.000	90.000	1.448e+001	-1.919e+001
71.806	1.447e+001	27.896	3.684e+001
175.000	90.000	1.448e+001	-1.896e+001
70.677	1.448e+001	27.380	3.672e+001
176.000	90.000	1.449e+001	-1.877e+001
69.769	1.449e+001	26.955	3.662e+001
177.000	90.000	1.450e+001	-1.863e+001
69.073	1.449e+001	26.623	3.654e+001
178.000	90.000	1.450e+001	-1.852e+001
68.582	1.450e+001	26.384	3.648e+001
179.000	90.000	1.450e+001	-1.846e+001
68.289	1.450e+001	26.241	3.644e+001
180.000	90.000	1.450e+001	-1.844e+001
68.193	1.450e+001	26.192	3.643e+001
-179.000	90.000	1.450e+001	-1.846e+001
68.291	1.450e+001	26.240	3.644e+001
-178.000	90.000	1.450e+001	-1.852e+001
68.586	1.450e+001	26.383	3.648e+001
-177.000	90.000	1.450e+001	-1.863e+001
69.079	1.449e+001	26.621	3.654e+001
-176.000	90.000	1.449e+001	-1.877e+001
69.777	1.449e+001	26.953	3.662e+001
-175.000	90.000	1.449e+001	-1.896e+001
70.687	1.448e+001	27.377	3.672e+001
-174.000	90.000	1.448e+001	-1.919e+001
71.818	1.448e+001	27.892	3.684e+001
-173.000	90.000	1.447e+001	-1.945e+001
73.182	1.446e+001	28.497	3.698e+001
-172.000	90.000	1.445e+001	-1.976e+001
74.793	1.445e+001	29.190	3.713e+001
-171.000	90.000	1.443e+001	-2.010e+001
76.668	1.443e+001	29.968	3.729e+001

-170.000	90.000	1.441e+001	-2.048e+001
78.825	1.441e+001	30.830	3.747e+001
-169.000	90.000	1.438e+001	-2.088e+001
81.283	1.438e+001	31.775	3.765e+001
-168.000	90.000	1.435e+001	-2.132e+001
84.063	1.435e+001	32.801	3.783e+001
-167.000	90.000	1.431e+001	-2.179e+001
87.185	1.431e+001	33.907	3.802e+001
-166.000	90.000	1.427e+001	-2.227e+001
90.668	1.426e+001	35.093	3.821e+001
-165.000	90.000	1.421e+001	-2.276e+001
94.524	1.421e+001	36.357	3.839e+001
-164.000	90.000	1.415e+001	-2.326e+001
98.760	1.415e+001	37.702	3.857e+001
-163.000	90.000	1.408e+001	-2.376e+001
103.370	1.408e+001	39.125	3.874e+001
-162.000	90.000	1.400e+001	-2.424e+001
108.336	1.400e+001	40.629	3.891e+001
-161.000	90.000	1.391e+001	-2.470e+001
113.621	1.390e+001	42.215	3.907e+001
-160.000	90.000	1.381e+001	-2.514e+001
119.172	1.380e+001	43.886	3.923e+001
-159.000	90.000	1.369e+001	-2.553e+001
124.923	1.369e+001	45.643	3.938e+001
-158.000	90.000	1.357e+001	-2.589e+001
130.795	1.357e+001	47.490	3.953e+001
-157.000	90.000	1.344e+001	-2.622e+001
136.712	1.344e+001	49.430	3.967e+001
-156.000	90.000	1.330e+001	-2.652e+001
142.602	1.330e+001	51.466	3.982e+001
-155.000	90.000	1.316e+001	-2.679e+001
148.409	1.316e+001	53.602	3.998e+001
-154.000	90.000	1.300e+001	-2.705e+001
154.097	1.300e+001	55.841	4.000e+001
-153.000	90.000	1.284e+001	-2.731e+001
159.649	1.284e+001	58.186	4.000e+001
-152.000	90.000	1.267e+001	-2.758e+001
165.072	1.267e+001	60.641	4.000e+001
-151.000	90.000	1.249e+001	-2.786e+001
170.390	1.249e+001	63.207	4.000e+001
-150.000	90.000	1.231e+001	-2.818e+001
175.645	1.231e+001	65.884	4.000e+001
-149.000	90.000	1.213e+001	-2.853e+001
180.895	1.213e+001	68.674	4.000e+001
-148.000	90.000	1.196e+001	-2.893e+001
186.212	1.196e+001	71.573	4.000e+001
-147.000	90.000	1.178e+001	-2.937e+001
191.686	1.178e+001	74.576	4.000e+001
-146.000	90.000	1.161e+001	-2.986e+001
197.422	1.161e+001	77.680	4.000e+001
-145.000	90.000	1.145e+001	-3.039e+001
203.545	1.145e+001	80.874	4.000e+001
-144.000	90.000	1.130e+001	-3.097e+001
210.202	1.130e+001	84.146	4.000e+001
-143.000	90.000	1.115e+001	-3.156e+001
217.553	1.115e+001	87.481	4.000e+001
-142.000	90.000	1.103e+001	-3.215e+001
225.754	1.103e+001	90.863	4.000e+001
-141.000	90.000	1.091e+001	-3.270e+001
234.923	1.091e+001	94.272	4.000e+001
-140.000	90.000	1.081e+001	-3.314e+001
245.068	1.081e+001	97.688	4.000e+001
-139.000	90.000	1.073e+001	-3.341e+001
256.013	1.073e+001	101.090	4.000e+001

-138.000	90.000	1.067e+001	-3.346e+001
267.361	1.067e+001	104.456	4.000e+001
-137.000	90.000	1.061e+001	-3.328e+001
278.567	1.061e+001	107.766	4.000e+001
-136.000	90.000	1.058e+001	-3.289e+001
289.103	1.058e+001	110.999	4.000e+001
-135.000	90.000	1.055e+001	-3.234e+001
298.617	1.055e+001	114.141	4.000e+001
-134.000	90.000	1.054e+001	-3.170e+001
306.975	1.054e+001	117.174	4.000e+001
-133.000	90.000	1.053e+001	-3.102e+001
314.210	1.053e+001	120.089	4.000e+001
-132.000	90.000	1.054e+001	-3.033e+001
320.440	1.054e+001	122.874	4.000e+001
-131.000	90.000	1.054e+001	-2.967e+001
325.815	1.054e+001	125.524	4.000e+001
-130.000	90.000	1.055e+001	-2.905e+001
330.477	1.055e+001	128.034	4.000e+001
-129.000	90.000	1.056e+001	-2.847e+001
334.549	1.056e+001	130.402	4.000e+001
-128.000	90.000	1.057e+001	-2.794e+001
338.135	1.057e+001	132.628	4.000e+001
-127.000	90.000	1.058e+001	-2.745e+001
341.318	1.058e+001	134.713	4.000e+001
-126.000	90.000	1.058e+001	-2.701e+001
344.163	1.058e+001	136.658	4.000e+001
-125.000	90.000	1.057e+001	-2.661e+001
346.726	1.057e+001	138.469	4.000e+001
-124.000	90.000	1.056e+001	-2.626e+001
349.045	1.056e+001	140.145	4.000e+001
-123.000	90.000	1.055e+001	-2.594e+001
351.155	1.055e+001	141.693	4.000e+001
-122.000	90.000	1.052e+001	-2.566e+001
353.083	1.052e+001	143.116	4.000e+001
-121.000	90.000	1.049e+001	-2.541e+001
354.851	1.049e+001	144.420	4.000e+001
-120.000	90.000	1.044e+001	-2.520e+001
356.477	1.044e+001	145.607	4.000e+001
-119.000	90.000	1.039e+001	-2.501e+001
357.974	1.039e+001	146.682	4.000e+001
-118.000	90.000	1.033e+001	-2.485e+001
359.354	1.033e+001	147.650	4.000e+001
-117.000	90.000	1.026e+001	-2.472e+001
0.626	1.026e+001	148.513	4.000e+001
-116.000	90.000	1.018e+001	-2.461e+001
1.799	1.017e+001	149.276	4.000e+001
-115.000	90.000	1.008e+001	-2.452e+001
2.877	1.008e+001	149.941	3.990e+001
-114.000	90.000	9.983e+000	-2.446e+001
3.866	9.982e+000	150.512	3.963e+001
-113.000	90.000	9.872e+000	-2.441e+001
4.770	9.870e+000	150.991	3.938e+001
-112.000	90.000	9.751e+000	-2.438e+001
5.591	9.750e+000	151.381	3.914e+001
-111.000	90.000	9.621e+000	-2.437e+001
6.332	9.619e+000	151.684	3.890e+001
-110.000	90.000	9.481e+000	-2.438e+001
6.995	9.480e+000	151.903	3.867e+001
-109.000	90.000	9.333e+000	-2.440e+001
7.580	9.331e+000	152.038	3.845e+001
-108.000	90.000	9.175e+000	-2.444e+001
8.088	9.173e+000	152.092	3.823e+001
-107.000	90.000	9.009e+000	-2.449e+001
8.520	9.007e+000	152.067	3.802e+001



-106.000	90.000	8.834e+000	-2.455e+001
8.875	8.832e+000	151.963	3.781e+001
-105.000	90.000	8.652e+000	-2.463e+001
9.153	8.649e+000	151.782	3.761e+001
-104.000	90.000	8.461e+000	-2.471e+001
9.352	8.459e+000	151.525	3.742e+001
-103.000	90.000	8.262e+000	-2.481e+001
9.473	8.260e+000	151.193	3.723e+001
-102.000	90.000	8.056e+000	-2.491e+001
9.514	8.054e+000	150.786	3.704e+001
-101.000	90.000	7.843e+000	-2.503e+001
9.472	7.841e+000	150.306	3.686e+001
-100.000	90.000	7.622e+000	-2.515e+001
9.348	7.620e+000	149.753	3.668e+001
-99.000	90.000	7.395e+000	-2.528e+001
9.139	7.393e+000	149.127	3.651e+001
-98.000	90.000	7.161e+000	-2.541e+001
8.843	7.159e+000	148.429	3.634e+001
-97.000	90.000	6.921e+000	-2.555e+001
8.459	6.919e+000	147.659	3.617e+001
-96.000	90.000	6.675e+000	-2.570e+001
7.985	6.672e+000	146.817	3.600e+001
-95.000	90.000	6.422e+000	-2.585e+001
7.418	6.420e+000	145.904	3.584e+001
-94.000	90.000	6.164e+000	-2.600e+001
6.759	6.161e+000	144.919	3.568e+001
-93.000	90.000	5.900e+000	-2.615e+001
6.005	5.897e+000	143.863	3.552e+001
-92.000	90.000	5.630e+000	-2.631e+001
5.155	5.627e+000	142.736	3.536e+001
-91.000	90.000	5.355e+000	-2.646e+001
4.209	5.352e+000	141.536	3.520e+001
-90.000	90.000	5.075e+000	-2.662e+001
3.167	5.072e+000	140.264	3.503e+001
-89.000	90.000	4.789e+000	-2.677e+001
2.030	4.786e+000	138.919	3.486e+001
-88.000	90.000	4.499e+000	-2.692e+001
0.799	4.495e+000	137.500	3.469e+001
-87.000	90.000	4.203e+000	-2.706e+001
359.476	4.200e+000	136.007	3.451e+001
-86.000	90.000	3.902e+000	-2.720e+001
358.064	3.899e+000	134.439	3.432e+001
-85.000	90.000	3.597e+000	-2.733e+001
356.569	3.593e+000	132.795	3.413e+001
-84.000	90.000	3.286e+000	-2.745e+001
354.995	3.283e+000	131.073	3.391e+001
-83.000	90.000	2.971e+000	-2.756e+001
353.350	2.967e+000	129.271	3.369e+001
-82.000	90.000	2.652e+000	-2.767e+001
351.640	2.648e+000	127.388	3.344e+001
-81.000	90.000	2.327e+000	-2.776e+001
349.876	2.323e+000	125.422	3.318e+001
-80.000	90.000	1.998e+000	-2.784e+001
348.065	1.994e+000	123.370	3.290e+001
-79.000	90.000	1.665e+000	-2.791e+001
346.220	1.660e+000	121.230	3.259e+001
-78.000	90.000	1.327e+000	-2.797e+001
344.350	1.322e+000	118.999	3.226e+001
-77.000	90.000	9.855e-001	-2.802e+001
342.466	9.800e-001	116.674	3.190e+001
-76.000	90.000	6.398e-001	-2.806e+001
340.579	6.340e-001	114.252	3.152e+001
-75.000	90.000	2.906e-001	-2.809e+001
338.700	2.843e-001	111.728	3.110e+001

-74.000	90.000	-6.200e-002	-2.812e+001
336.837	-6.880e-002	109.099	3.067e+001
-73.000	90.000	-4.174e-001	-2.813e+001
335.000	-4.248e-001	106.362	3.020e+001
-72.000	90.000	-7.752e-001	-2.814e+001
333.196	-7.831e-001	103.511	2.972e+001
-71.000	90.000	-1.135e+000	-2.815e+001
331.430	-1.143e+000	100.544	2.922e+001
-70.000	90.000	-1.495e+000	-2.815e+001
329.708	-1.505e+000	97.456	2.870e+001
-69.000	90.000	-1.856e+000	-2.816e+001
328.032	-1.866e+000	94.244	2.816e+001
-68.000	90.000	-2.216e+000	-2.817e+001
326.404	-2.227e+000	90.906	2.763e+001
-67.000	90.000	-2.574e+000	-2.818e+001
324.823	-2.585e+000	87.438	2.710e+001
-66.000	90.000	-2.928e+000	-2.821e+001
323.288	-2.941e+000	83.839	2.657e+001
-65.000	90.000	-3.279e+000	-2.824e+001
321.796	-3.293e+000	80.110	2.606e+001
-64.000	90.000	-3.624e+000	-2.828e+001
320.342	-3.639e+000	76.250	2.557e+001
-63.000	90.000	-3.962e+000	-2.834e+001
318.920	-3.978e+000	72.263	2.511e+001
-62.000	90.000	-4.292e+000	-2.842e+001
317.523	-4.309e+000	68.153	2.469e+001
-61.000	90.000	-4.613e+000	-2.851e+001
316.142	-4.631e+000	63.924	2.431e+001
-60.000	90.000	-4.923e+000	-2.863e+001
314.765	-4.941e+000	59.583	2.399e+001
-59.000	90.000	-5.222e+000	-2.877e+001
313.380	-5.241e+000	55.140	2.372e+001
-58.000	90.000	-5.509e+000	-2.895e+001
311.972	-5.528e+000	50.601	2.352e+001
-57.000	90.000	-5.783e+000	-2.915e+001
310.523	-5.803e+000	45.978	2.338e+001
-56.000	90.000	-6.046e+000	-2.938e+001
309.013	-6.066e+000	41.280	2.332e+001
-55.000	90.000	-6.296e+000	-2.965e+001
307.417	-6.316e+000	36.515	2.334e+001
-54.000	90.000	-6.534e+000	-2.997e+001
305.706	-6.554e+000	31.694	2.343e+001
-53.000	90.000	-6.761e+000	-3.032e+001
303.840	-6.780e+000	26.819	2.361e+001
-52.000	90.000	-6.977e+000	-3.072e+001
301.776	-6.996e+000	21.899	2.386e+001
-51.000	90.000	-7.184e+000	-3.117e+001
299.458	-7.201e+000	16.937	2.418e+001
-50.000	90.000	-7.380e+000	-3.168e+001
296.813	-7.397e+000	11.934	2.458e+001
-49.000	90.000	-7.568e+000	-3.223e+001
293.753	-7.583e+000	6.891	2.503e+001
-48.000	90.000	-7.747e+000	-3.284e+001
290.165	-7.760e+000	1.808	2.554e+001
-47.000	90.000	-7.916e+000	-3.349e+001
285.911	-7.928e+000	356.685	2.607e+001
-46.000	90.000	-8.076e+000	-3.418e+001
280.825	-8.087e+000	351.522	2.660e+001
-45.000	90.000	-8.225e+000	-3.488e+001
274.727	-8.234e+000	346.321	2.710e+001
-44.000	90.000	-8.362e+000	-3.554e+001
267.460	-8.370e+000	341.086	2.753e+001
-43.000	90.000	-8.486e+000	-3.611e+001
258.958	-8.494e+000	335.824	2.784e+001

-42.000	90.000	-8.596e+000	-3.651e+001
249.354	-8.603e+000	330.548	2.801e+001
-41.000	90.000	-8.689e+000	-3.667e+001
239.065	-8.696e+000	325.272	2.799e+001
-40.000	90.000	-8.767e+000	-3.656e+001
228.735	-8.774e+000	320.017	2.779e+001
-39.000	90.000	-8.828e+000	-3.621e+001
219.033	-8.836e+000	314.806	2.742e+001
-38.000	90.000	-8.873e+000	-3.569e+001
210.419	-8.882e+000	309.664	2.692e+001
-37.000	90.000	-8.904e+000	-3.507e+001
203.070	-8.915e+000	304.619	2.633e+001
-36.000	90.000	-8.924e+000	-3.441e+001
196.947	-8.936e+000	299.698	2.569e+001
-35.000	90.000	-8.935e+000	-3.377e+001
191.901	-8.949e+000	294.924	2.505e+001
-34.000	90.000	-8.943e+000	-3.317e+001
187.754	-8.959e+000	290.321	2.443e+001
-33.000	90.000	-8.951e+000	-3.264e+001
184.339	-8.970e+000	285.904	2.385e+001
-32.000	90.000	-8.967e+000	-3.218e+001
181.512	-8.988e+000	281.681	2.333e+001
-31.000	90.000	-8.994e+000	-3.179e+001
179.161	-9.017e+000	277.667	2.287e+001
-30.000	90.000	-9.040e+000	-3.149e+001
177.196	-9.065e+000	273.863	2.249e+001
-29.000	90.000	-9.110e+000	-3.127e+001
175.543	-9.136e+000	270.267	2.216e+001
-28.000	90.000	-9.210e+000	-3.113e+001
174.149	-9.238e+000	266.874	2.190e+001
-27.000	90.000	-9.346e+000	-3.108e+001
172.968	-9.375e+000	263.675	2.171e+001
-26.000	90.000	-9.524e+000	-3.112e+001
171.967	-9.555e+000	260.659	2.157e+001
-25.000	90.000	-9.752e+000	-3.125e+001
171.117	-9.782e+000	257.811	2.148e+001
-24.000	90.000	-1.003e+001	-3.148e+001
170.397	-1.007e+001	255.117	2.145e+001
-23.000	90.000	-1.038e+001	-3.182e+001
169.790	-1.041e+001	252.558	2.148e+001
-22.000	90.000	-1.079e+001	-3.228e+001
169.285	-1.082e+001	250.114	2.157e+001
-21.000	90.000	-1.129e+001	-3.287e+001
168.872	-1.132e+001	247.759	2.172e+001
-20.000	90.000	-1.187e+001	-3.362e+001
168.548	-1.190e+001	245.465	2.195e+001
-19.000	90.000	-1.256e+001	-3.455e+001
168.313	-1.259e+001	243.194	2.227e+001
-18.000	90.000	-1.337e+001	-3.571e+001
168.178	-1.340e+001	240.897	2.272e+001
-17.000	90.000	-1.432e+001	-3.718e+001
168.169	-1.434e+001	238.505	2.336e+001
-16.000	90.000	-1.544e+001	-3.907e+001
168.345	-1.546e+001	235.915	2.430e+001
-15.000	90.000	-1.677e+001	-4.164e+001
168.855	-1.678e+001	232.958	2.578e+001
-14.000	90.000	-1.837e+001	-4.543e+001
170.223	-1.838e+001	229.346	2.838e+001
-13.000	90.000	-2.032e+001	-5.245e+001
175.542	-2.032e+001	224.522	3.457e+001
-12.000	90.000	-2.275e+001	-6.234e+001
313.326	-2.275e+001	217.291	3.964e+001
-11.000	90.000	-2.576e+001	-4.880e+001
339.007	-2.578e+001	204.735	2.594e+001

-10.000	90.000	-2.894e+001	-4.373e+001
341.761	-2.909e+001	179.800	2.510e+001
-9.000	90.000	-2.974e+001	-4.066e+001
342.748	-3.010e+001	138.985	1.908e+001
-8.000	90.000	-2.733e+001	-3.851e+001
343.229	-2.768e+001	107.381	1.272e+001
-7.000	90.000	-2.466e+001	-3.691e+001
343.500	-2.493e+001	91.699	1.249e+001
-6.000	90.000	-2.258e+001	-3.569e+001
343.666	-2.280e+001	83.553	1.304e+001
-5.000	90.000	-2.102e+001	-3.474e+001
343.772	-2.121e+001	78.810	1.357e+001
-4.000	90.000	-1.988e+001	-3.402e+001
343.841	-2.005e+001	75.838	1.398e+001
-3.000	90.000	-1.905e+001	-3.349e+001
343.887	-1.921e+001	73.924	1.427e+001
-2.000	90.000	-1.850e+001	-3.312e+001
343.915	-1.865e+001	72.723	1.447e+001
-1.000	90.000	-1.818e+001	-3.290e+001
343.930	-1.832e+001	72.061	1.458e+001