

Theta [deg.]	Phi [deg.]	Abs(Grlz)[dB]	Abs(Theta)[dB]	Phase(Theta)
[deg.]	Abs(Phi ) [dB]	Phase(Phi ) [deg.]	Ax.Ratio [dB]	
0.000	0.000	-7.918e+000	-6.841e+001	
59.241	-7.918e+000	246.296	4.000e+001	
1.000	0.000	-8.012e+000	-6.906e+001	
61.928	-8.012e+000	246.342	4.000e+001	
2.000	0.000	-8.295e+000	-7.024e+001	
67.911	-8.295e+000	246.487	4.000e+001	
3.000	0.000	-8.774e+000	-7.184e+001	
79.016	-8.774e+000	246.745	4.000e+001	
4.000	0.000	-9.459e+000	-7.341e+001	
97.736	-9.459e+000	247.141	4.000e+001	
5.000	0.000	-1.037e+001	-7.392e+001	
122.856	-1.037e+001	247.723	4.000e+001	
6.000	0.000	-1.152e+001	-7.297e+001	
145.482	-1.152e+001	248.565	4.000e+001	
7.000	0.000	-1.297e+001	-7.157e+001	
160.386	-1.297e+001	249.803	4.000e+001	
8.000	0.000	-1.475e+001	-7.049e+001	
169.270	-1.475e+001	251.679	4.000e+001	
9.000	0.000	-1.698e+001	-6.999e+001	
174.535	-1.698e+001	254.683	4.000e+001	
10.000	0.000	-1.980e+001	-7.014e+001	
177.570	-1.980e+001	259.918	4.000e+001	
11.000	0.000	-2.343e+001	-7.105e+001	
178.993	-2.343e+001	270.312	4.000e+001	
12.000	0.000	-2.775e+001	-7.297e+001	
178.781	-2.775e+001	294.469	4.000e+001	
13.000	0.000	-2.950e+001	-7.654e+001	
175.571	-2.950e+001	340.525	4.000e+001	
14.000	0.000	-2.690e+001	-8.419e+001	
157.799	-2.690e+001	13.637	4.000e+001	
15.000	0.000	-2.433e+001	-8.489e+001	
42.068	-2.433e+001	27.423	4.000e+001	
16.000	0.000	-2.264e+001	-7.635e+001	
20.726	-2.264e+001	33.562	4.000e+001	
17.000	0.000	-2.161e+001	-7.221e+001	
16.188	-2.161e+001	36.466	4.000e+001	
18.000	0.000	-2.107e+001	-6.978e+001	
14.247	-2.107e+001	37.676	4.000e+001	
19.000	0.000	-2.090e+001	-6.832e+001	
13.121	-2.090e+001	37.815	4.000e+001	
20.000	0.000	-2.103e+001	-6.756e+001	
12.325	-2.103e+001	37.136	4.000e+001	
21.000	0.000	-2.143e+001	-6.738e+001	
11.681	-2.143e+001	35.739	4.000e+001	
22.000	0.000	-2.205e+001	-6.777e+001	
11.113	-2.205e+001	33.627	4.000e+001	
23.000	0.000	-2.289e+001	-6.874e+001	
10.586	-2.289e+001	30.740	4.000e+001	
24.000	0.000	-2.391e+001	-7.045e+001	
10.096	-2.391e+001	26.954	4.000e+001	
25.000	0.000	-2.512e+001	-7.319e+001	
9.677	-2.512e+001	22.092	4.000e+001	
26.000	0.000	-2.648e+001	-7.792e+001	
9.526	-2.648e+001	15.920	4.000e+001	
27.000	0.000	-2.797e+001	-9.001e+001	
12.380	-2.797e+001	8.164	4.000e+001	
28.000	0.000	-2.953e+001	-8.425e+001	
184.480	-2.953e+001	358.563	4.000e+001	
29.000	0.000	-3.108e+001	-7.678e+001	
185.027	-3.108e+001	347.016	4.000e+001	

30.000	0.000	-3.254e+001	-7.339e+001
184.391	-3.254e+001	333.723	4.000e+001
31.000	0.000	-3.387e+001	-7.154e+001
183.393	-3.387e+001	319.237	4.000e+001
32.000	0.000	-3.510e+001	-7.062e+001
182.084	-3.510e+001	304.169	3.695e+001
33.000	0.000	-3.639e+001	-7.040e+001
180.375	-3.640e+001	288.624	3.446e+001
34.000	0.000	-3.792e+001	-7.083e+001
178.045	-3.793e+001	271.566	3.292e+001
35.000	0.000	-3.978e+001	-7.195e+001
174.614	-3.978e+001	250.029	3.245e+001
36.000	0.000	-4.141e+001	-7.391e+001
168.913	-4.141e+001	218.784	3.483e+001
37.000	0.000	-4.096e+001	-7.704e+001
157.415	-4.096e+001	179.522	4.000e+001
38.000	0.000	-3.827e+001	-8.133e+001
127.016	-3.827e+001	148.688	4.000e+001
39.000	0.000	-3.529e+001	-8.115e+001
68.527	-3.529e+001	129.776	4.000e+001
40.000	0.000	-3.275e+001	-7.655e+001
38.388	-3.275e+001	117.616	4.000e+001
41.000	0.000	-3.068e+001	-7.308e+001
27.036	-3.068e+001	108.925	4.000e+001
42.000	0.000	-2.901e+001	-7.071e+001
21.483	-2.901e+001	102.130	4.000e+001
43.000	0.000	-2.768e+001	-6.908e+001
18.240	-2.768e+001	96.433	4.000e+001
44.000	0.000	-2.662e+001	-6.798e+001
16.155	-2.662e+001	91.378	4.000e+001
45.000	0.000	-2.581e+001	-6.729e+001
14.765	-2.581e+001	86.671	4.000e+001
46.000	0.000	-2.521e+001	-6.695e+001
13.862	-2.521e+001	82.097	4.000e+001
47.000	0.000	-2.481e+001	-6.692e+001
13.363	-2.481e+001	77.479	4.000e+001
48.000	0.000	-2.457e+001	-6.717e+001
13.255	-2.457e+001	72.650	4.000e+001
49.000	0.000	-2.449e+001	-6.772e+001
13.592	-2.449e+001	67.440	4.000e+001
50.000	0.000	-2.455e+001	-6.856e+001
14.503	-2.455e+001	61.668	4.000e+001
51.000	0.000	-2.470e+001	-6.973e+001
16.240	-2.470e+001	55.143	4.000e+001
52.000	0.000	-2.493e+001	-7.129e+001
19.299	-2.493e+001	47.683	4.000e+001
53.000	0.000	-2.515e+001	-7.331e+001
24.702	-2.515e+001	39.166	4.000e+001
54.000	0.000	-2.531e+001	-7.584e+001
34.715	-2.531e+001	29.611	4.000e+001
55.000	0.000	-2.533e+001	-7.864e+001
54.175	-2.533e+001	19.274	4.000e+001
56.000	0.000	-2.515e+001	-8.008e+001
86.688	-2.515e+001	8.664	4.000e+001
57.000	0.000	-2.477e+001	-7.862e+001
117.359	-2.477e+001	358.416	4.000e+001
58.000	0.000	-2.422e+001	-7.621e+001
134.737	-2.422e+001	349.075	4.000e+001
59.000	0.000	-2.357e+001	-7.414e+001
143.744	-2.357e+001	340.942	4.000e+001
60.000	0.000	-2.288e+001	-7.255e+001
148.709	-2.288e+001	334.083	4.000e+001
61.000	0.000	-2.221e+001	-7.135e+001
151.613	-2.221e+001	328.401	4.000e+001

62.000	0.000	-2.158e+001	-7.047e+001
153.367	-2.158e+001	323.737	4.000e+001
63.000	0.000	-2.102e+001	-6.983e+001
154.435	-2.102e+001	319.923	4.000e+001
64.000	0.000	-2.053e+001	-6.939e+001
155.075	-2.053e+001	316.804	4.000e+001
65.000	0.000	-2.012e+001	-6.910e+001
155.448	-2.012e+001	314.255	4.000e+001
66.000	0.000	-1.978e+001	-6.896e+001
155.662	-1.978e+001	312.168	4.000e+001
67.000	0.000	-1.951e+001	-6.893e+001
155.797	-1.951e+001	310.459	4.000e+001
68.000	0.000	-1.930e+001	-6.899e+001
155.920	-1.930e+001	309.057	4.000e+001
69.000	0.000	-1.915e+001	-6.914e+001
156.092	-1.915e+001	307.904	4.000e+001
70.000	0.000	-1.906e+001	-6.936e+001
156.370	-1.906e+001	306.950	4.000e+001
71.000	0.000	-1.901e+001	-6.962e+001
156.815	-1.901e+001	306.151	4.000e+001
72.000	0.000	-1.900e+001	-6.993e+001
157.487	-1.900e+001	305.467	4.000e+001
73.000	0.000	-1.902e+001	-7.027e+001
158.449	-1.902e+001	304.860	4.000e+001
74.000	0.000	-1.907e+001	-7.062e+001
159.766	-1.907e+001	304.296	4.000e+001
75.000	0.000	-1.913e+001	-7.096e+001
161.493	-1.913e+001	303.738	4.000e+001
76.000	0.000	-1.920e+001	-7.126e+001
163.673	-1.920e+001	303.152	4.000e+001
77.000	0.000	-1.928e+001	-7.152e+001
166.323	-1.928e+001	302.506	4.000e+001
78.000	0.000	-1.934e+001	-7.170e+001
169.421	-1.934e+001	301.769	4.000e+001
79.000	0.000	-1.939e+001	-7.177e+001
172.897	-1.939e+001	300.912	4.000e+001
80.000	0.000	-1.941e+001	-7.173e+001
176.631	-1.941e+001	299.913	4.000e+001
81.000	0.000	-1.939e+001	-7.156e+001
180.464	-1.939e+001	298.759	4.000e+001
82.000	0.000	-1.933e+001	-7.125e+001
184.229	-1.933e+001	297.445	4.000e+001
83.000	0.000	-1.921e+001	-7.083e+001
187.770	-1.921e+001	295.978	4.000e+001
84.000	0.000	-1.903e+001	-7.030e+001
190.974	-1.903e+001	294.377	4.000e+001
85.000	0.000	-1.878e+001	-6.968e+001
193.773	-1.878e+001	292.676	4.000e+001
86.000	0.000	-1.846e+001	-6.900e+001
196.146	-1.846e+001	290.914	4.000e+001
87.000	0.000	-1.808e+001	-6.828e+001
198.104	-1.808e+001	289.137	4.000e+001
88.000	0.000	-1.762e+001	-6.753e+001
199.681	-1.762e+001	287.394	4.000e+001
89.000	0.000	-1.711e+001	-6.676e+001
200.921	-1.711e+001	285.727	4.000e+001
90.000	0.000	-1.654e+001	-6.599e+001
201.871	-1.654e+001	284.173	4.000e+001
91.000	0.000	-1.592e+001	-6.522e+001
202.576	-1.592e+001	282.758	4.000e+001
92.000	0.000	-1.526e+001	-6.445e+001
203.077	-1.526e+001	281.501	4.000e+001
93.000	0.000	-1.458e+001	-6.370e+001
203.410	-1.458e+001	280.409	4.000e+001

94.000	0.000	-1.387e+001	-6.295e+001
203.606	-1.387e+001	279.483	4.000e+001
95.000	0.000	-1.316e+001	-6.223e+001
203.691	-1.316e+001	278.718	4.000e+001
96.000	0.000	-1.243e+001	-6.153e+001
203.684	-1.243e+001	278.106	4.000e+001
97.000	0.000	-1.171e+001	-6.085e+001
203.603	-1.171e+001	277.635	4.000e+001
98.000	0.000	-1.099e+001	-6.019e+001
203.463	-1.099e+001	277.292	4.000e+001
99.000	0.000	-1.028e+001	-5.956e+001
203.275	-1.028e+001	277.065	4.000e+001
100.000	0.000	-9.591e+000	-5.896e+001
203.047	-9.591e+000	276.940	4.000e+001
101.000	0.000	-8.917e+000	-5.839e+001
202.788	-8.917e+000	276.907	4.000e+001
102.000	0.000	-8.265e+000	-5.785e+001
202.503	-8.265e+000	276.952	4.000e+001
103.000	0.000	-7.639e+000	-5.736e+001
202.198	-7.639e+000	277.066	4.000e+001
104.000	0.000	-7.040e+000	-5.690e+001
201.878	-7.040e+000	277.240	4.000e+001
105.000	0.000	-6.473e+000	-5.649e+001
201.544	-6.473e+000	277.463	4.000e+001
106.000	0.000	-5.939e+000	-5.612e+001
201.202	-5.939e+000	277.729	4.000e+001
107.000	0.000	-5.443e+000	-5.581e+001
200.854	-5.443e+000	278.028	4.000e+001
108.000	0.000	-4.986e+000	-5.556e+001
200.503	-4.986e+000	278.355	4.000e+001
109.000	0.000	-4.572e+000	-5.537e+001
200.150	-4.572e+000	278.700	4.000e+001
110.000	0.000	-4.204e+000	-5.526e+001
199.800	-4.204e+000	279.058	4.000e+001
111.000	0.000	-3.885e+000	-5.523e+001
199.454	-3.885e+000	279.419	4.000e+001
112.000	0.000	-3.619e+000	-5.530e+001
199.115	-3.619e+000	279.776	4.000e+001
113.000	0.000	-3.411e+000	-5.547e+001
198.788	-3.411e+000	280.119	4.000e+001
114.000	0.000	-3.264e+000	-5.578e+001
198.475	-3.264e+000	280.438	4.000e+001
115.000	0.000	-3.185e+000	-5.623e+001
198.183	-3.185e+000	280.718	4.000e+001
116.000	0.000	-3.179e+000	-5.687e+001
197.918	-3.179e+000	280.944	4.000e+001
117.000	0.000	-3.252e+000	-5.775e+001
197.692	-3.252e+000	281.096	4.000e+001
118.000	0.000	-3.414e+000	-5.895e+001
197.524	-3.414e+000	281.147	4.000e+001
119.000	0.000	-3.673e+000	-6.060e+001
197.450	-3.673e+000	281.063	4.000e+001
120.000	0.000	-4.040e+000	-6.296e+001
197.558	-4.040e+000	280.794	4.000e+001
121.000	0.000	-4.529e+000	-6.668e+001
198.139	-4.529e+000	280.276	4.000e+001
122.000	0.000	-5.156e+000	-7.419e+001
201.143	-5.156e+000	279.412	4.000e+001
123.000	0.000	-5.941e+000	-8.057e+001
3.855	-5.941e+000	278.058	4.000e+001
124.000	0.000	-6.908e+000	-6.818e+001
12.558	-6.908e+000	275.994	4.000e+001
125.000	0.000	-8.082e+000	-6.320e+001
13.688	-8.082e+000	272.866	4.000e+001

126.000	0.000	-9.482e+000	-6.007e+001
14.137	-9.482e+000	268.096	4.000e+001
127.000	0.000	-1.110e+001	-5.786e+001
14.428	-1.110e+001	260.727	4.000e+001
128.000	0.000	-1.281e+001	-5.621e+001
14.701	-1.281e+001	249.330	4.000e+001
129.000	0.000	-1.426e+001	-5.497e+001
15.021	-1.426e+001	232.628	4.000e+001
130.000	0.000	-1.480e+001	-5.405e+001
15.432	-1.480e+001	212.061	4.000e+001
131.000	0.000	-1.424e+001	-5.341e+001
15.979	-1.424e+001	192.967	4.000e+001
132.000	0.000	-1.312e+001	-5.303e+001
16.713	-1.312e+001	179.078	4.000e+001
133.000	0.000	-1.200e+001	-5.288e+001
17.699	-1.200e+001	170.079	4.000e+001
134.000	0.000	-1.114e+001	-5.298e+001
19.034	-1.114e+001	164.453	4.000e+001
135.000	0.000	-1.062e+001	-5.334e+001
20.860	-1.062e+001	161.025	4.000e+001
136.000	0.000	-1.049e+001	-5.396e+001
23.399	-1.049e+001	159.090	4.000e+001
137.000	0.000	-1.077e+001	-5.488e+001
27.016	-1.077e+001	158.279	4.000e+001
138.000	0.000	-1.155e+001	-5.612e+001
32.338	-1.155e+001	158.483	4.000e+001
139.000	0.000	-1.298e+001	-5.768e+001
40.450	-1.298e+001	159.905	4.000e+001
140.000	0.000	-1.540e+001	-5.945e+001
53.113	-1.540e+001	163.490	4.000e+001
141.000	0.000	-1.966e+001	-6.096e+001
72.085	-1.966e+001	173.395	4.000e+001
142.000	0.000	-2.684e+001	-6.142e+001
95.487	-2.684e+001	221.186	3.639e+001
143.000	0.000	-2.127e+001	-6.065e+001
116.284	-2.127e+001	299.114	4.000e+001
144.000	0.000	-1.525e+001	-5.941e+001
130.551	-1.525e+001	314.926	4.000e+001
145.000	0.000	-1.162e+001	-5.836e+001
139.380	-1.162e+001	320.156	4.000e+001
146.000	0.000	-9.188e+000	-5.771e+001
144.622	-9.188e+000	322.620	4.000e+001
147.000	0.000	-7.515e+000	-5.756e+001
147.409	-7.515e+000	323.880	4.000e+001
148.000	0.000	-6.410e+000	-5.796e+001
148.187	-6.410e+000	324.381	4.000e+001
149.000	0.000	-5.789e+000	-5.901e+001
146.733	-5.789e+000	324.214	4.000e+001
150.000	0.000	-5.628e+000	-6.091e+001
141.687	-5.628e+000	323.268	4.000e+001
151.000	0.000	-5.947e+000	-6.392e+001
128.307	-5.947e+000	321.208	4.000e+001
152.000	0.000	-6.812e+000	-6.711e+001
92.233	-6.812e+000	317.281	4.000e+001
153.000	0.000	-8.317e+000	-6.507e+001
43.494	-8.317e+000	309.766	4.000e+001
154.000	0.000	-1.044e+001	-6.084e+001
21.397	-1.044e+001	294.487	4.000e+001
155.000	0.000	-1.211e+001	-5.766e+001
12.588	-1.211e+001	264.359	4.000e+001
156.000	0.000	-1.068e+001	-5.544e+001
8.414	-1.068e+001	227.964	4.000e+001
157.000	0.000	-7.424e+000	-5.392e+001
6.216	-7.424e+000	206.091	4.000e+001

158.000	0.000	-4.511e+000	-5.297e+001
5.009	-4.511e+000	195.508	4.000e+001
159.000	0.000	-2.269e+000	-5.250e+001
4.353	-2.269e+000	190.127	4.000e+001
160.000	0.000	-6.172e-001	-5.252e+001
3.994	-6.172e-001	187.300	4.000e+001
161.000	0.000	5.282e-001	-5.307e+001
3.732	5.281e-001	185.924	4.000e+001
162.000	0.000	1.210e+000	-5.428e+001
3.301	1.210e+000	185.529	4.000e+001
163.000	0.000	1.432e+000	-5.644e+001
2.128	1.432e+000	185.959	4.000e+001
164.000	0.000	1.148e+000	-6.038e+001
358.085	1.148e+000	187.294	4.000e+001
165.000	0.000	2.477e-001	-6.943e+001
331.116	2.477e-001	189.957	4.000e+001
166.000	0.000	-1.502e+000	-6.486e+001
217.453	-1.502e+000	195.205	4.000e+001
167.000	0.000	-4.559e+000	-5.707e+001
205.098	-4.559e+000	207.346	4.000e+001
168.000	0.000	-8.745e+000	-5.273e+001
203.176	-8.745e+000	244.465	4.000e+001
169.000	0.000	-6.282e+000	-4.974e+001
203.398	-6.282e+000	306.000	4.000e+001
170.000	0.000	-7.794e-001	-4.748e+001
204.436	-7.795e-001	329.923	4.000e+001
171.000	0.000	3.188e+000	-4.569e+001
205.863	3.188e+000	338.692	4.000e+001
172.000	0.000	6.088e+000	-4.423e+001
207.479	6.088e+000	342.991	4.000e+001
173.000	0.000	8.301e+000	-4.302e+001
209.162	8.301e+000	345.492	4.000e+001
174.000	0.000	1.003e+001	-4.202e+001
210.823	1.003e+001	347.097	4.000e+001
175.000	0.000	1.138e+001	-4.119e+001
212.390	1.138e+001	348.186	4.000e+001
176.000	0.000	1.242e+001	-4.052e+001
213.805	1.242e+001	348.941	4.000e+001
177.000	0.000	1.320e+001	-3.999e+001
215.022	1.320e+001	349.463	4.000e+001
178.000	0.000	1.374e+001	-3.959e+001
216.001	1.374e+001	349.806	4.000e+001
179.000	0.000	1.406e+001	-3.933e+001
216.716	1.406e+001	350.001	4.000e+001
180.000	0.000	1.417e+001	-3.920e+001
217.146	1.417e+001	350.065	4.000e+001
-179.000	0.000	1.406e+001	-3.922e+001
217.275	1.406e+001	350.001	4.000e+001
-178.000	0.000	1.374e+001	-3.938e+001
217.091	1.374e+001	349.806	4.000e+001
-177.000	0.000	1.320e+001	-3.970e+001
216.580	1.320e+001	349.464	4.000e+001
-176.000	0.000	1.242e+001	-4.020e+001
215.725	1.242e+001	348.942	4.000e+001
-175.000	0.000	1.138e+001	-4.090e+001
214.493	1.138e+001	348.187	4.000e+001
-174.000	0.000	1.003e+001	-4.183e+001
212.828	1.003e+001	347.099	4.000e+001
-173.000	0.000	8.301e+000	-4.302e+001
210.623	8.301e+000	345.494	4.000e+001
-172.000	0.000	6.087e+000	-4.456e+001
207.673	6.087e+000	342.994	4.000e+001
-171.000	0.000	3.188e+000	-4.653e+001
203.552	3.188e+000	338.695	4.000e+001

-170.000	0.000	-7.801e-001	-4.912e+001
197.262	-7.802e-001	329.927	4.000e+001
-169.000	0.000	-6.284e+000	-5.262e+001
186.021	-6.284e+000	306.003	4.000e+001
-168.000	0.000	-8.746e+000	-5.713e+001
160.516	-8.746e+000	244.452	4.000e+001
-167.000	0.000	-4.559e+000	-5.906e+001
107.178	-4.559e+000	207.336	4.000e+001
-166.000	0.000	-1.502e+000	-5.567e+001
69.195	-1.502e+000	195.199	4.000e+001
-165.000	0.000	2.483e-001	-5.262e+001
53.302	2.483e-001	189.952	4.000e+001
-164.000	0.000	1.148e+000	-5.065e+001
44.858	1.148e+000	187.290	4.000e+001
-163.000	0.000	1.432e+000	-4.946e+001
39.190	1.432e+000	185.956	4.000e+001
-162.000	0.000	1.211e+000	-4.885e+001
34.731	1.211e+000	185.527	4.000e+001
-161.000	0.000	5.291e-001	-4.873e+001
30.803	5.290e-001	185.921	4.000e+001
-160.000	0.000	-6.161e-001	-4.904e+001
27.018	-6.162e-001	187.298	4.000e+001
-159.000	0.000	-2.267e+000	-4.979e+001
23.059	-2.267e+000	190.124	4.000e+001
-158.000	0.000	-4.509e+000	-5.101e+001
18.544	-4.509e+000	195.503	4.000e+001
-157.000	0.000	-7.422e+000	-5.279e+001
12.828	-7.422e+000	206.082	4.000e+001
-156.000	0.000	-1.068e+001	-5.529e+001
4.514	-1.068e+001	227.943	4.000e+001
-155.000	0.000	-1.211e+001	-5.871e+001
349.868	-1.211e+001	264.325	4.000e+001
-154.000	0.000	-1.045e+001	-6.262e+001
318.412	-1.045e+001	294.461	4.000e+001
-153.000	0.000	-8.319e+000	-6.296e+001
268.823	-8.319e+000	309.748	4.000e+001
-152.000	0.000	-6.815e+000	-5.996e+001
238.332	-6.815e+000	317.268	4.000e+001
-151.000	0.000	-5.950e+000	-5.754e+001
223.845	-5.950e+000	321.197	4.000e+001
-150.000	0.000	-5.630e+000	-5.608e+001
215.208	-5.630e+000	323.258	4.000e+001
-149.000	0.000	-5.791e+000	-5.541e+001
208.741	-5.791e+000	324.204	4.000e+001
-148.000	0.000	-6.413e+000	-5.541e+001
202.875	-6.413e+000	324.370	4.000e+001
-147.000	0.000	-7.518e+000	-5.604e+001
196.527	-7.518e+000	323.868	4.000e+001
-146.000	0.000	-9.191e+000	-5.736e+001
188.319	-9.191e+000	322.605	4.000e+001
-145.000	0.000	-1.162e+001	-5.945e+001
175.491	-1.162e+001	320.136	4.000e+001
-144.000	0.000	-1.526e+001	-6.202e+001
151.663	-1.526e+001	314.893	4.000e+001
-143.000	0.000	-2.128e+001	-6.288e+001
111.840	-2.128e+001	299.027	4.000e+001
-142.000	0.000	-2.682e+001	-6.032e+001
77.815	-2.682e+001	221.027	3.795e+001
-141.000	0.000	-1.964e+001	-5.723e+001
59.955	-1.964e+001	173.390	3.833e+001
-140.000	0.000	-1.540e+001	-5.478e+001
50.325	-1.540e+001	163.496	4.000e+001
-139.000	0.000	-1.298e+001	-5.295e+001
44.388	-1.298e+001	159.912	4.000e+001

-138.000	0.000	-1.154e+001	-5.162e+001
40.310	-1.154e+001	158.489	4.000e+001
-137.000	0.000	-1.076e+001	-5.068e+001
37.280	-1.076e+001	158.285	4.000e+001
-136.000	0.000	-1.048e+001	-5.008e+001
34.891	-1.048e+001	159.095	4.000e+001
-135.000	0.000	-1.062e+001	-4.976e+001
32.919	-1.062e+001	161.030	4.000e+001
-134.000	0.000	-1.114e+001	-4.970e+001
31.224	-1.114e+001	164.457	4.000e+001
-133.000	0.000	-1.200e+001	-4.989e+001
29.713	-1.200e+001	170.082	4.000e+001
-132.000	0.000	-1.311e+001	-5.034e+001
28.313	-1.311e+001	179.079	4.000e+001
-131.000	0.000	-1.423e+001	-5.104e+001
26.961	-1.423e+001	192.966	4.000e+001
-130.000	0.000	-1.480e+001	-5.204e+001
25.582	-1.480e+001	212.056	4.000e+001
-129.000	0.000	-1.425e+001	-5.338e+001
24.076	-1.425e+001	232.622	4.000e+001
-128.000	0.000	-1.281e+001	-5.516e+001
22.265	-1.281e+001	249.324	4.000e+001
-127.000	0.000	-1.110e+001	-5.756e+001
19.764	-1.110e+001	260.723	4.000e+001
-126.000	0.000	-9.482e+000	-6.099e+001
15.486	-9.482e+000	268.094	4.000e+001
-125.000	0.000	-8.081e+000	-6.654e+001
4.606	-8.081e+000	272.865	4.000e+001
-124.000	0.000	-6.908e+000	-7.528e+001
299.652	-6.908e+000	275.993	4.000e+001
-123.000	0.000	-5.941e+000	-6.737e+001
228.645	-5.941e+000	278.057	4.000e+001
-122.000	0.000	-5.156e+000	-6.209e+001
217.138	-5.156e+000	279.412	4.000e+001
-121.000	0.000	-4.528e+000	-5.901e+001
212.908	-4.528e+000	280.276	4.000e+001
-120.000	0.000	-4.039e+000	-5.697e+001
210.645	-4.039e+000	280.795	4.000e+001
-119.000	0.000	-3.672e+000	-5.553e+001
209.198	-3.672e+000	281.063	4.000e+001
-118.000	0.000	-3.414e+000	-5.449e+001
208.175	-3.414e+000	281.148	4.000e+001
-117.000	0.000	-3.252e+000	-5.375e+001
207.407	-3.252e+000	281.097	4.000e+001
-116.000	0.000	-3.179e+000	-5.323e+001
206.809	-3.179e+000	280.945	4.000e+001
-115.000	0.000	-3.185e+000	-5.289e+001
206.335	-3.185e+000	280.719	4.000e+001
-114.000	0.000	-3.264e+000	-5.270e+001
205.958	-3.264e+000	280.439	4.000e+001
-113.000	0.000	-3.411e+000	-5.265e+001
205.661	-3.411e+000	280.120	4.000e+001
-112.000	0.000	-3.619e+000	-5.270e+001
205.433	-3.619e+000	279.777	4.000e+001
-111.000	0.000	-3.885e+000	-5.286e+001
205.270	-3.885e+000	279.420	4.000e+001
-110.000	0.000	-4.204e+000	-5.310e+001
205.168	-4.204e+000	279.059	4.000e+001
-109.000	0.000	-4.572e+000	-5.343e+001
205.126	-4.572e+000	278.701	4.000e+001
-108.000	0.000	-4.986e+000	-5.383e+001
205.147	-4.986e+000	278.356	4.000e+001
-107.000	0.000	-5.443e+000	-5.429e+001
205.233	-5.443e+000	278.030	4.000e+001



-106.000	0.000	-5.940e+000	-5.482e+001
205.388	-5.940e+000	277.730	4.000e+001
-105.000	0.000	-6.473e+000	-5.541e+001
205.619	-6.473e+000	277.464	4.000e+001
-104.000	0.000	-7.041e+000	-5.605e+001
205.933	-7.041e+000	277.241	4.000e+001
-103.000	0.000	-7.639e+000	-5.674e+001
206.338	-7.639e+000	277.068	4.000e+001
-102.000	0.000	-8.266e+000	-5.748e+001
206.844	-8.266e+000	276.954	4.000e+001
-101.000	0.000	-8.918e+000	-5.826e+001
207.462	-8.918e+000	276.908	4.000e+001
-100.000	0.000	-9.592e+000	-5.908e+001
208.204	-9.592e+000	276.943	4.000e+001
-99.000	0.000	-1.028e+001	-5.994e+001
209.082	-1.028e+001	277.067	4.000e+001
-98.000	0.000	-1.099e+001	-6.083e+001
210.107	-1.099e+001	277.295	4.000e+001
-97.000	0.000	-1.171e+001	-6.175e+001
211.290	-1.171e+001	277.638	4.000e+001
-96.000	0.000	-1.243e+001	-6.269e+001
212.636	-1.243e+001	278.110	4.000e+001
-95.000	0.000	-1.316e+001	-6.365e+001
214.144	-1.316e+001	278.723	4.000e+001
-94.000	0.000	-1.388e+001	-6.461e+001
215.804	-1.388e+001	279.488	4.000e+001
-93.000	0.000	-1.458e+001	-6.557e+001
217.588	-1.458e+001	280.415	4.000e+001
-92.000	0.000	-1.526e+001	-6.652e+001
219.453	-1.526e+001	281.508	4.000e+001
-91.000	0.000	-1.592e+001	-6.744e+001
221.325	-1.592e+001	282.766	4.000e+001
-90.000	0.000	-1.654e+001	-6.833e+001
223.105	-1.654e+001	284.182	4.000e+001
-89.000	0.000	-1.711e+001	-6.917e+001
224.663	-1.711e+001	285.737	4.000e+001
-88.000	0.000	-1.762e+001	-6.997e+001
225.844	-1.762e+001	287.405	4.000e+001
-87.000	0.000	-1.808e+001	-7.070e+001
226.474	-1.808e+001	289.150	4.000e+001
-86.000	0.000	-1.846e+001	-7.136e+001
226.372	-1.846e+001	290.927	4.000e+001
-85.000	0.000	-1.878e+001	-7.194e+001
225.372	-1.878e+001	292.690	4.000e+001
-84.000	0.000	-1.903e+001	-7.243e+001
223.342	-1.903e+001	294.392	4.000e+001
-83.000	0.000	-1.921e+001	-7.279e+001
220.222	-1.921e+001	295.992	4.000e+001
-82.000	0.000	-1.933e+001	-7.301e+001
216.054	-1.933e+001	297.460	4.000e+001
-81.000	0.000	-1.939e+001	-7.306e+001
211.013	-1.939e+001	298.774	4.000e+001
-80.000	0.000	-1.941e+001	-7.292e+001
205.396	-1.941e+001	299.927	4.000e+001
-79.000	0.000	-1.939e+001	-7.260e+001
199.567	-1.939e+001	300.925	4.000e+001
-78.000	0.000	-1.934e+001	-7.212e+001
193.871	-1.934e+001	301.781	4.000e+001
-77.000	0.000	-1.928e+001	-7.152e+001
188.562	-1.928e+001	302.518	4.000e+001
-76.000	0.000	-1.920e+001	-7.086e+001
183.774	-1.920e+001	303.163	4.000e+001
-75.000	0.000	-1.913e+001	-7.016e+001
179.541	-1.913e+001	303.747	4.000e+001

-74.000	0.000	-1.907e+001	-6.947e+001
175.826	-1.907e+001	304.304	4.000e+001
-73.000	0.000	-1.902e+001	-6.882e+001
172.558	-1.902e+001	304.867	4.000e+001
-72.000	0.000	-1.900e+001	-6.822e+001
169.649	-1.900e+001	305.473	4.000e+001
-71.000	0.000	-1.901e+001	-6.769e+001
167.013	-1.901e+001	306.155	4.000e+001
-70.000	0.000	-1.906e+001	-6.723e+001
164.566	-1.906e+001	306.953	4.000e+001
-69.000	0.000	-1.915e+001	-6.686e+001
162.227	-1.915e+001	307.906	4.000e+001
-68.000	0.000	-1.930e+001	-6.659e+001
159.912	-1.930e+001	309.058	4.000e+001
-67.000	0.000	-1.951e+001	-6.643e+001
157.542	-1.951e+001	310.459	4.000e+001
-66.000	0.000	-1.978e+001	-6.637e+001
155.022	-1.978e+001	312.166	4.000e+001
-65.000	0.000	-2.012e+001	-6.643e+001
152.242	-2.012e+001	314.252	4.000e+001
-64.000	0.000	-2.053e+001	-6.662e+001
149.066	-2.053e+001	316.800	4.000e+001
-63.000	0.000	-2.102e+001	-6.694e+001
145.312	-2.102e+001	319.917	4.000e+001
-62.000	0.000	-2.158e+001	-6.739e+001
140.739	-2.158e+001	323.730	4.000e+001
-61.000	0.000	-2.221e+001	-6.797e+001
135.021	-2.221e+001	328.393	4.000e+001
-60.000	0.000	-2.288e+001	-6.866e+001
127.735	-2.288e+001	334.074	4.000e+001
-59.000	0.000	-2.357e+001	-6.936e+001
118.415	-2.357e+001	340.933	4.000e+001
-58.000	0.000	-2.422e+001	-6.997e+001
106.753	-2.422e+001	349.067	4.000e+001
-57.000	0.000	-2.477e+001	-7.027e+001
93.056	-2.477e+001	358.410	4.000e+001
-56.000	0.000	-2.515e+001	-7.012e+001
78.591	-2.515e+001	8.662	4.000e+001
-55.000	0.000	-2.533e+001	-6.954e+001
65.114	-2.533e+001	19.277	4.000e+001
-54.000	0.000	-2.532e+001	-6.870e+001
53.807	-2.532e+001	29.618	4.000e+001
-53.000	0.000	-2.515e+001	-6.779e+001
44.897	-2.515e+001	39.176	4.000e+001
-52.000	0.000	-2.493e+001	-6.697e+001
38.053	-2.493e+001	47.696	4.000e+001
-51.000	0.000	-2.470e+001	-6.630e+001
32.811	-2.470e+001	55.156	4.000e+001
-50.000	0.000	-2.455e+001	-6.583e+001
28.765	-2.455e+001	61.681	4.000e+001
-49.000	0.000	-2.449e+001	-6.560e+001
25.605	-2.449e+001	67.453	4.000e+001
-48.000	0.000	-2.457e+001	-6.561e+001
23.108	-2.457e+001	72.661	4.000e+001
-47.000	0.000	-2.480e+001	-6.592e+001
21.113	-2.480e+001	77.489	4.000e+001
-46.000	0.000	-2.521e+001	-6.655e+001
19.503	-2.521e+001	82.106	4.000e+001
-45.000	0.000	-2.581e+001	-6.759e+001
18.191	-2.581e+001	86.678	4.000e+001
-44.000	0.000	-2.662e+001	-6.916e+001
17.117	-2.662e+001	91.382	4.000e+001
-43.000	0.000	-2.767e+001	-7.153e+001
16.233	-2.767e+001	96.435	4.000e+001

-42.000	0.000	-2.901e+001	-7.531e+001
15.506	-2.901e+001	102.128	4.000e+001
-41.000	0.000	-3.067e+001	-8.292e+001
14.945	-3.067e+001	108.918	4.000e+001
-40.000	0.000	-3.274e+001	-9.035e+001
194.041	-3.274e+001	117.602	4.000e+001
-39.000	0.000	-3.528e+001	-7.782e+001
193.775	-3.529e+001	129.750	4.000e+001
-38.000	0.000	-3.826e+001	-7.324e+001
193.383	-3.827e+001	148.639	3.802e+001
-37.000	0.000	-4.096e+001	-7.067e+001
193.005	-4.096e+001	179.443	4.000e+001
-36.000	0.000	-4.141e+001	-6.914e+001
192.625	-4.142e+001	218.714	3.487e+001
-35.000	0.000	-3.978e+001	-6.835e+001
192.217	-3.979e+001	249.994	3.001e+001
-34.000	0.000	-3.793e+001	-6.816e+001
191.734	-3.793e+001	271.554	3.036e+001
-33.000	0.000	-3.640e+001	-6.857e+001
191.099	-3.640e+001	288.625	3.225e+001
-32.000	0.000	-3.511e+001	-6.967e+001
190.154	-3.511e+001	304.180	3.535e+001
-31.000	0.000	-3.387e+001	-7.168e+001
188.514	-3.387e+001	319.257	4.000e+001
-30.000	0.000	-3.255e+001	-7.522e+001
184.860	-3.255e+001	333.747	4.000e+001
-29.000	0.000	-3.109e+001	-8.257e+001
170.299	-3.109e+001	347.042	4.000e+001
-28.000	0.000	-2.953e+001	-8.539e+001
50.500	-2.953e+001	358.588	4.000e+001
-27.000	0.000	-2.797e+001	-7.597e+001
26.266	-2.797e+001	8.187	4.000e+001
-26.000	0.000	-2.648e+001	-7.159e+001
21.706	-2.648e+001	15.939	4.000e+001
-25.000	0.000	-2.512e+001	-6.900e+001
19.913	-2.512e+001	22.109	4.000e+001
-24.000	0.000	-2.391e+001	-6.742e+001
19.038	-2.391e+001	26.967	4.000e+001
-23.000	0.000	-2.288e+001	-6.653e+001
18.606	-2.288e+001	30.750	4.000e+001
-22.000	0.000	-2.205e+001	-6.623e+001
18.459	-2.205e+001	33.635	4.000e+001
-21.000	0.000	-2.143e+001	-6.647e+001
18.565	-2.143e+001	35.744	4.000e+001
-20.000	0.000	-2.103e+001	-6.729e+001
18.981	-2.103e+001	37.140	4.000e+001
-19.000	0.000	-2.090e+001	-6.878e+001
19.909	-2.090e+001	37.817	4.000e+001
-18.000	0.000	-2.106e+001	-7.119e+001
21.925	-2.106e+001	37.676	4.000e+001
-17.000	0.000	-2.161e+001	-7.515e+001
27.095	-2.161e+001	36.465	4.000e+001
-16.000	0.000	-2.263e+001	-8.247e+001
48.647	-2.263e+001	33.560	4.000e+001
-15.000	0.000	-2.433e+001	-8.376e+001
146.168	-2.433e+001	27.421	4.000e+001
-14.000	0.000	-2.690e+001	-7.655e+001
171.910	-2.690e+001	13.635	4.000e+001
-13.000	0.000	-2.950e+001	-7.301e+001
176.652	-2.950e+001	340.532	4.000e+001
-12.000	0.000	-2.774e+001	-7.115e+001
177.085	-2.774e+001	294.482	4.000e+001
-11.000	0.000	-2.343e+001	-7.032e+001
175.330	-2.343e+001	270.320	4.000e+001

-10.000	0.000	-1.980e+001	-7.026e+001
171.520	-1.980e+001	259.922	4.000e+001
-9.000	0.000	-1.698e+001	-7.085e+001
164.942	-1.698e+001	254.686	4.000e+001
-8.000	0.000	-1.475e+001	-7.193e+001
154.021	-1.475e+001	251.681	4.000e+001
-7.000	0.000	-1.297e+001	-7.310e+001
136.614	-1.297e+001	249.804	4.000e+001
-6.000	0.000	-1.152e+001	-7.348e+001
113.200	-1.152e+001	248.566	4.000e+001
-5.000	0.000	-1.037e+001	-7.254e+001
90.848	-1.037e+001	247.723	4.000e+001
-4.000	0.000	-9.459e+000	-7.099e+001
75.364	-9.459e+000	247.141	4.000e+001
-3.000	0.000	-8.774e+000	-6.962e+001
66.165	-8.774e+000	246.745	4.000e+001
-2.000	0.000	-8.295e+000	-6.870e+001
61.158	-8.295e+000	246.487	4.000e+001
-1.000	0.000	-8.012e+000	-6.829e+001
59.023	-8.012e+000	246.342	4.000e+001