

Theta [deg.] [deg.]	Phi [deg.] Abs(Phi) [dB]	Abs(Grlz) [dB] Phase(Phi) [deg.]	Abs(Theta) [dB] Ax.Ratio [dB]	Phase(Theta)
0.000	0.000	-1.807e+001	-1.822e+001	
251.854	-3.283e+001	343.935	1.462e+001	
1.000	0.000	-1.820e+001	-1.835e+001	
253.192	-3.283e+001	344.535	1.448e+001	
2.000	0.000	-1.855e+001	-1.871e+001	
257.303	-3.282e+001	346.227	1.411e+001	
3.000	0.000	-1.904e+001	-1.922e+001	
264.373	-3.280e+001	348.860	1.362e+001	
4.000	0.000	-1.951e+001	-1.972e+001	
274.379	-3.274e+001	352.191	1.324e+001	
5.000	0.000	-1.978e+001	-2.001e+001	
286.583	-3.264e+001	355.909	1.327e+001	
6.000	0.000	-1.976e+001	-1.999e+001	
299.359	-3.251e+001	359.680	1.387e+001	
7.000	0.000	-1.951e+001	-1.974e+001	
310.970	-3.237e+001	3.204	1.485e+001	
8.000	0.000	-1.925e+001	-1.948e+001	
320.511	-3.223e+001	6.253	1.587e+001	
9.000	0.000	-1.918e+001	-1.940e+001	
327.973	-3.212e+001	8.693	1.669e+001	
10.000	0.000	-1.944e+001	-1.968e+001	
333.767	-3.206e+001	10.466	1.717e+001	
11.000	0.000	-2.017e+001	-2.046e+001	
338.390	-3.208e+001	11.583	1.726e+001	
12.000	0.000	-2.154e+001	-2.194e+001	
342.347	-3.217e+001	12.100	1.693e+001	
13.000	0.000	-2.381e+001	-2.446e+001	
346.315	-3.234e+001	12.113	1.621e+001	
14.000	0.000	-2.743e+001	-2.902e+001	
352.170	-3.258e+001	11.753	1.601e+001	
15.000	0.000	-3.219e+001	-4.045e+001	
21.715	-3.289e+001	11.188	2.369e+001	
16.000	0.000	-3.029e+001	-3.336e+001	
150.236	-3.324e+001	10.624	8.689e+000	
17.000	0.000	-2.561e+001	-2.636e+001	
159.993	-3.363e+001	10.302	1.439e+001	
18.000	0.000	-2.255e+001	-2.287e+001	
163.195	-3.404e+001	10.481	1.846e+001	
19.000	0.000	-2.065e+001	-2.084e+001	
164.966	-3.444e+001	11.422	2.093e+001	
20.000	0.000	-1.958e+001	-1.971e+001	
166.152	-3.482e+001	13.339	2.213e+001	
21.000	0.000	-1.915e+001	-1.926e+001	
167.035	-3.515e+001	16.358	2.225e+001	
22.000	0.000	-1.933e+001	-1.944e+001	
167.749	-3.538e+001	20.456	2.144e+001	
23.000	0.000	-2.013e+001	-2.026e+001	
168.385	-3.548e+001	25.418	1.979e+001	
24.000	0.000	-2.166e+001	-2.184e+001	
169.044	-3.544e+001	30.865	1.733e+001	
25.000	0.000	-2.420e+001	-2.455e+001	
169.926	-3.527e+001	36.346	1.388e+001	
26.000	0.000	-2.838e+001	-2.945e+001	
171.811	-3.501e+001	41.468	9.025e+000	
27.000	0.000	-3.422e+001	-4.392e+001	
188.972	-3.472e+001	45.980	1.428e+001	
28.000	0.000	-3.073e+001	-3.314e+001	
342.315	-3.445e+001	49.783	3.755e+000	
29.000	0.000	-2.569e+001	-2.634e+001	
345.597	-3.424e+001	52.886	8.838e+000	

30.000	0.000	-2.265e+001	-2.297e+001
346.500	-3.413e+001	55.359	1.186e+001
31.000	0.000	-2.079e+001	-2.099e+001
346.876	-3.415e+001	57.293	1.373e+001
32.000	0.000	-1.971e+001	-1.986e+001
347.026	-3.431e+001	58.781	1.493e+001
33.000	0.000	-1.923e+001	-1.936e+001
347.040	-3.461e+001	59.909	1.567e+001
34.000	0.000	-1.929e+001	-1.941e+001
346.938	-3.506e+001	60.754	1.602e+001
35.000	0.000	-1.988e+001	-1.999e+001
346.704	-3.566e+001	61.394	1.600e+001
36.000	0.000	-2.105e+001	-2.118e+001
346.271	-3.641e+001	61.910	1.552e+001
37.000	0.000	-2.297e+001	-2.313e+001
345.461	-3.729e+001	62.398	1.440e+001
38.000	0.000	-2.604e+001	-2.631e+001
343.704	-3.829e+001	62.984	1.216e+001
39.000	0.000	-3.137e+001	-3.212e+001
338.123	-3.938e+001	63.838	7.298e+000
40.000	0.000	-3.943e+001	-4.599e+001
252.266	-4.051e+001	65.179	2.580e+001
41.000	0.000	-3.133e+001	-3.175e+001
181.137	-4.162e+001	67.273	1.081e+001
42.000	0.000	-2.613e+001	-2.622e+001
176.174	-4.261e+001	70.356	1.673e+001
43.000	0.000	-2.313e+001	-2.317e+001
174.822	-4.334e+001	74.496	2.032e+001
44.000	0.000	-2.122e+001	-2.125e+001
174.518	-4.371e+001	79.423	2.250e+001
45.000	0.000	-2.000e+001	-2.002e+001
174.765	-4.365e+001	84.532	2.363e+001
46.000	0.000	-1.927e+001	-1.929e+001
175.438	-4.320e+001	89.134	2.393e+001
47.000	0.000	-1.894e+001	-1.896e+001
176.541	-4.247e+001	92.818	2.356e+001
48.000	0.000	-1.896e+001	-1.898e+001
178.161	-4.158e+001	95.518	2.267e+001
49.000	0.000	-1.929e+001	-1.932e+001
180.467	-4.064e+001	97.396	2.138e+001
50.000	0.000	-1.993e+001	-1.998e+001
183.744	-3.971e+001	98.679	1.977e+001
51.000	0.000	-2.086e+001	-2.093e+001
188.475	-3.885e+001	99.578	1.792e+001
52.000	0.000	-2.207e+001	-2.218e+001
195.462	-3.808e+001	100.248	1.594e+001
53.000	0.000	-2.345e+001	-2.363e+001
205.973	-3.741e+001	100.807	1.412e+001
54.000	0.000	-2.471e+001	-2.499e+001
221.499	-3.686e+001	101.332	1.328e+001
55.000	0.000	-2.532e+001	-2.567e+001
241.897	-3.641e+001	101.877	1.501e+001
56.000	0.000	-2.488e+001	-2.522e+001
262.859	-3.608e+001	102.479	2.095e+001
57.000	0.000	-2.369e+001	-2.396e+001
279.441	-3.585e+001	103.165	3.618e+001
58.000	0.000	-2.229e+001	-2.249e+001
290.822	-3.573e+001	103.955	3.209e+001
59.000	0.000	-2.100e+001	-2.115e+001
298.402	-3.572e+001	104.869	2.747e+001
60.000	0.000	-1.991e+001	-2.002e+001
303.537	-3.581e+001	105.922	2.638e+001
61.000	0.000	-1.903e+001	-1.912e+001
307.122	-3.600e+001	107.133	2.636e+001

62.000	0.000	-1.834e+001	-1.841e+001
309.699	-3.629e+001	108.523	2.685e+001
63.000	0.000	-1.782e+001	-1.788e+001
311.600	-3.668e+001	110.119	2.762e+001
64.000	0.000	-1.746e+001	-1.750e+001
313.040	-3.717e+001	111.952	2.863e+001
65.000	0.000	-1.722e+001	-1.726e+001
314.160	-3.776e+001	114.064	2.985e+001
66.000	0.000	-1.710e+001	-1.713e+001
315.062	-3.845e+001	116.511	3.133e+001
67.000	0.000	-1.708e+001	-1.710e+001
315.818	-3.925e+001	119.366	3.316e+001
68.000	0.000	-1.714e+001	-1.717e+001
316.490	-4.017e+001	122.735	3.552e+001
69.000	0.000	-1.729e+001	-1.731e+001
317.128	-4.121e+001	126.767	3.883e+001
70.000	0.000	-1.751e+001	-1.752e+001
317.773	-4.237e+001	131.676	4.000e+001
71.000	0.000	-1.778e+001	-1.779e+001
318.470	-4.367e+001	137.784	4.000e+001
72.000	0.000	-1.810e+001	-1.811e+001
319.261	-4.508e+001	145.566	4.000e+001
73.000	0.000	-1.846e+001	-1.847e+001
320.189	-4.657e+001	155.690	3.957e+001
74.000	0.000	-1.885e+001	-1.886e+001
321.298	-4.800e+001	168.936	3.582e+001
75.000	0.000	-1.925e+001	-1.926e+001
322.632	-4.912e+001	185.693	3.318e+001
76.000	0.000	-1.965e+001	-1.966e+001
324.234	-4.960e+001	204.888	3.114e+001
77.000	0.000	-2.004e+001	-2.004e+001
326.137	-4.931e+001	223.767	2.947e+001
78.000	0.000	-2.038e+001	-2.039e+001
328.366	-4.845e+001	239.926	2.807e+001
79.000	0.000	-2.066e+001	-2.067e+001
330.921	-4.735e+001	252.811	2.687e+001
80.000	0.000	-2.087e+001	-2.088e+001
333.775	-4.623e+001	263.003	2.585e+001
81.000	0.000	-2.097e+001	-2.098e+001
336.868	-4.516e+001	271.268	2.500e+001
82.000	0.000	-2.095e+001	-2.097e+001
340.103	-4.418e+001	278.205	2.431e+001
83.000	0.000	-2.081e+001	-2.083e+001
343.364	-4.329e+001	284.226	2.380e+001
84.000	0.000	-2.053e+001	-2.056e+001
346.527	-4.246e+001	289.600	2.345e+001
85.000	0.000	-2.014e+001	-2.017e+001
349.480	-4.170e+001	294.500	2.329e+001
86.000	0.000	-1.964e+001	-1.967e+001
352.143	-4.099e+001	299.041	2.328e+001
87.000	0.000	-1.905e+001	-1.908e+001
354.469	-4.031e+001	303.292	2.342e+001
88.000	0.000	-1.838e+001	-1.841e+001
356.446	-3.966e+001	307.300	2.370e+001
89.000	0.000	-1.765e+001	-1.768e+001
358.088	-3.903e+001	311.092	2.409e+001
90.000	0.000	-1.688e+001	-1.692e+001
359.428	-3.841e+001	314.682	2.458e+001
91.000	0.000	-1.609e+001	-1.612e+001
0.505	-3.780e+001	318.079	2.514e+001
92.000	0.000	-1.527e+001	-1.530e+001
1.363	-3.720e+001	321.286	2.576e+001
93.000	0.000	-1.444e+001	-1.447e+001
2.044	-3.660e+001	324.304	2.643e+001

94.000	0.000	-1.362e+001	-1.364e+001
2.584	-3.601e+001	327.132	2.713e+001
95.000	0.000	-1.279e+001	-1.282e+001
3.017	-3.541e+001	329.771	2.785e+001
96.000	0.000	-1.198e+001	-1.201e+001
3.369	-3.482e+001	332.220	2.858e+001
97.000	0.000	-1.118e+001	-1.121e+001
3.662	-3.423e+001	334.482	2.930e+001
98.000	0.000	-1.041e+001	-1.043e+001
3.915	-3.365e+001	336.558	3.001e+001
99.000	0.000	-9.650e+000	-9.670e+000
4.142	-3.306e+001	338.452	3.069e+001
100.000	0.000	-8.920e+000	-8.939e+000
4.354	-3.248e+001	340.167	3.133e+001
101.000	0.000	-8.220e+000	-8.239e+000
4.560	-3.191e+001	341.710	3.192e+001
102.000	0.000	-7.553e+000	-7.571e+000
4.768	-3.134e+001	343.086	3.245e+001
103.000	0.000	-6.922e+000	-6.940e+000
4.984	-3.079e+001	344.302	3.292e+001
104.000	0.000	-6.330e+000	-6.348e+000
5.212	-3.024e+001	345.362	3.330e+001
105.000	0.000	-5.783e+000	-5.801e+000
5.457	-2.970e+001	346.276	3.360e+001
106.000	0.000	-5.283e+000	-5.301e+000
5.723	-2.917e+001	347.048	3.379e+001
107.000	0.000	-4.835e+000	-4.853e+000
6.015	-2.865e+001	347.685	3.388e+001
108.000	0.000	-4.444e+000	-4.463e+000
6.337	-2.815e+001	348.194	3.386e+001
109.000	0.000	-4.116e+000	-4.135e+000
6.694	-2.767e+001	348.581	3.372e+001
110.000	0.000	-3.857e+000	-3.878e+000
7.092	-2.720e+001	348.850	3.345e+001
111.000	0.000	-3.676e+000	-3.697e+000
7.541	-2.675e+001	349.007	3.305e+001
112.000	0.000	-3.580e+000	-3.603e+000
8.048	-2.633e+001	349.054	3.251e+001
113.000	0.000	-3.582e+000	-3.607e+000
8.631	-2.592e+001	348.998	3.183e+001
114.000	0.000	-3.695e+000	-3.724e+000
9.308	-2.554e+001	348.840	3.099e+001
115.000	0.000	-3.938e+000	-3.971e+000
10.107	-2.518e+001	348.581	2.997e+001
116.000	0.000	-4.333e+000	-4.372e+000
11.072	-2.485e+001	348.223	2.876e+001
117.000	0.000	-4.914e+000	-4.962e+000
12.269	-2.455e+001	347.765	2.731e+001
118.000	0.000	-5.727e+000	-5.788e+000
13.814	-2.427e+001	347.206	2.556e+001
119.000	0.000	-6.838e+000	-6.922e+000
15.914	-2.403e+001	346.543	2.343e+001
120.000	0.000	-8.358e+000	-8.483e+000
18.993	-2.383e+001	345.772	2.075e+001
121.000	0.000	-1.047e+001	-1.068e+001
24.055	-2.366e+001	344.887	1.723e+001
122.000	0.000	-1.344e+001	-1.389e+001
34.093	-2.352e+001	343.878	1.232e+001
123.000	0.000	-1.726e+001	-1.846e+001
60.901	-2.342e+001	342.738	5.315e+000
124.000	0.000	-1.781e+001	-1.922e+001
122.486	-2.336e+001	341.454	1.021e+001
125.000	0.000	-1.364e+001	-1.413e+001
156.972	-2.335e+001	340.010	3.571e+001

126.000	0.000	-9.950e+000	-1.015e+001
169.241	-2.337e+001	338.390	2.811e+001
127.000	0.000	-7.217e+000	-7.323e+000
175.234	-2.342e+001	336.573	2.619e+001
128.000	0.000	-5.158e+000	-5.222e+000
178.926	-2.352e+001	334.538	2.609e+001
129.000	0.000	-3.578e+000	-3.621e+000
181.577	-2.365e+001	332.259	2.630e+001
130.000	0.000	-2.366e+000	-2.397e+000
183.702	-2.381e+001	329.711	2.651e+001
131.000	0.000	-1.456e+000	-1.481e+000
185.555	-2.399e+001	326.875	2.662e+001
132.000	0.000	-8.127e-001	-8.327e-001
187.284	-2.419e+001	323.733	2.662e+001
133.000	0.000	-4.145e-001	-4.319e-001
188.990	-2.439e+001	320.280	2.646e+001
134.000	0.000	-2.546e-001	-2.707e-001
190.754	-2.459e+001	316.530	2.614e+001
135.000	0.000	-3.365e-001	-3.522e-001
192.662	-2.476e+001	312.517	2.565e+001
136.000	0.000	-6.738e-001	-6.903e-001
194.813	-2.489e+001	308.309	2.496e+001
137.000	0.000	-1.293e+000	-1.312e+000
197.350	-2.497e+001	304.003	2.404e+001
138.000	0.000	-2.237e+000	-2.260e+000
200.498	-2.500e+001	299.720	2.285e+001
139.000	0.000	-3.573e+000	-3.605e+000
204.662	-2.496e+001	295.593	2.135e+001
140.000	0.000	-5.401e+000	-5.451e+000
210.651	-2.485e+001	291.753	1.951e+001
141.000	0.000	-7.855e+000	-7.946e+000
220.326	-2.469e+001	288.307	1.743e+001
142.000	0.000	-1.094e+001	-1.114e+001
238.443	-2.449e+001	285.329	1.628e+001
143.000	0.000	-1.341e+001	-1.379e+001
273.849	-2.425e+001	282.860	2.730e+001
144.000	0.000	-1.243e+001	-1.274e+001
315.106	-2.399e+001	280.900	1.669e+001
145.000	0.000	-9.806e+000	-9.986e+000
338.904	-2.371e+001	279.420	1.512e+001
146.000	0.000	-7.692e+000	-7.809e+000
351.551	-2.343e+001	278.370	1.602e+001
147.000	0.000	-6.327e+000	-6.418e+000
359.683	-2.315e+001	277.680	1.682e+001
148.000	0.000	-5.629e+000	-5.711e+000
6.030	-2.288e+001	277.270	1.717e+001
149.000	0.000	-5.544e+000	-5.630e+000
11.929	-2.263e+001	277.058	1.703e+001
150.000	0.000	-6.086e+000	-6.189e+000
18.404	-2.239e+001	276.957	1.638e+001
151.000	0.000	-7.336e+000	-7.482e+000
26.892	-2.217e+001	276.886	1.526e+001
152.000	0.000	-9.416e+000	-9.664e+000
40.582	-2.197e+001	276.768	1.408e+001
153.000	0.000	-1.200e+001	-1.248e+001
67.904	-2.181e+001	276.529	1.649e+001
154.000	0.000	-1.225e+001	-1.278e+001
114.672	-2.167e+001	276.111	1.980e+001
155.000	0.000	-8.984e+000	-9.230e+000
148.955	-2.157e+001	275.458	1.442e+001
156.000	0.000	-5.633e+000	-5.747e+000
165.479	-2.149e+001	274.528	1.626e+001
157.000	0.000	-3.077e+000	-3.141e+000
174.719	-2.144e+001	273.289	1.840e+001

158.000	0.000	-1.216e+000	-1.257e+000
180.942	-2.142e+001	271.723	2.016e+001
159.000	0.000	8.870e-002	5.776e-002
185.753	-2.140e+001	269.833	2.150e+001
160.000	0.000	9.141e-001	8.885e-001
189.871	-2.139e+001	267.640	2.248e+001
161.000	0.000	1.292e+000	1.268e+000
193.704	-2.137e+001	265.193	2.310e+001
162.000	0.000	1.208e+000	1.183e+000
197.571	-2.133e+001	262.564	2.337e+001
163.000	0.000	5.991e-001	5.706e-001
201.854	-2.126e+001	259.852	2.328e+001
164.000	0.000	-6.838e-001	-7.230e-001
207.247	-2.115e+001	257.168	2.279e+001
165.000	0.000	-2.958e+000	-3.026e+000
215.569	-2.101e+001	254.626	2.208e+001
166.000	0.000	-6.833e+000	-7.009e+000
233.810	-2.084e+001	252.331	2.411e+001
167.000	0.000	-1.040e+001	-1.083e+001
291.855	-2.064e+001	250.364	1.390e+001
168.000	0.000	-5.170e+000	-5.301e+000
346.251	-2.042e+001	248.777	1.519e+001
169.000	0.000	-6.061e-002	-1.031e-001
2.958	-2.018e+001	247.589	2.097e+001
170.000	0.000	3.519e+000	3.499e+000
10.374	-1.994e+001	246.790	2.504e+001
171.000	0.000	6.182e+000	6.171e+000
14.784	-1.970e+001	246.345	2.800e+001
172.000	0.000	8.254e+000	8.246e+000
17.833	-1.947e+001	246.201	3.025e+001
173.000	0.000	9.903e+000	9.897e+000
20.112	-1.925e+001	246.294	3.199e+001
174.000	0.000	1.123e+001	1.122e+001
21.884	-1.905e+001	246.553	3.333e+001
175.000	0.000	1.228e+001	1.228e+001
23.276	-1.887e+001	246.908	3.437e+001
176.000	0.000	1.311e+001	1.310e+001
24.360	-1.872e+001	247.295	3.516e+001
177.000	0.000	1.373e+001	1.372e+001
25.174	-1.860e+001	247.657	3.573e+001
178.000	0.000	1.416e+001	1.416e+001
25.744	-1.851e+001	247.948	3.613e+001
179.000	0.000	1.442e+001	1.441e+001
26.081	-1.846e+001	248.133	3.635e+001
180.000	0.000	1.450e+001	1.450e+001
26.192	-1.844e+001	248.193	3.643e+001
-179.000	0.000	1.442e+001	1.441e+001
26.081	-1.846e+001	248.121	3.636e+001
-178.000	0.000	1.416e+001	1.416e+001
25.745	-1.852e+001	247.923	3.614e+001
-177.000	0.000	1.373e+001	1.372e+001
25.176	-1.861e+001	247.621	3.575e+001
-176.000	0.000	1.311e+001	1.310e+001
24.362	-1.874e+001	247.249	3.519e+001
-175.000	0.000	1.228e+001	1.228e+001
23.279	-1.889e+001	246.854	3.440e+001
-174.000	0.000	1.123e+001	1.122e+001
21.887	-1.907e+001	246.494	3.337e+001
-173.000	0.000	9.904e+000	9.899e+000
20.117	-1.927e+001	246.234	3.202e+001
-172.000	0.000	8.256e+000	8.248e+000
17.839	-1.949e+001	246.144	3.028e+001
-171.000	0.000	6.185e+000	6.173e+000
14.794	-1.972e+001	246.294	2.803e+001

-170.000	0.000	3.522e+000	3.502e+000
10.389	-1.996e+001	246.749	2.507e+001
-169.000	0.000	-5.655e-002	-9.879e-002
2.983	-2.020e+001	247.562	2.100e+001
-168.000	0.000	-5.165e+000	-5.296e+000
346.306	-2.043e+001	248.766	1.521e+001
-167.000	0.000	-1.041e+001	-1.084e+001
291.956	-2.065e+001	250.369	1.388e+001
-166.000	0.000	-6.842e+000	-7.018e+000
233.819	-2.085e+001	252.351	2.410e+001
-165.000	0.000	-2.963e+000	-3.031e+000
215.563	-2.101e+001	254.658	2.207e+001
-164.000	0.000	-6.869e-001	-7.261e-001
207.241	-2.115e+001	257.207	2.277e+001
-163.000	0.000	5.971e-001	5.686e-001
201.847	-2.125e+001	259.895	2.326e+001
-162.000	0.000	1.206e+000	1.182e+000
197.565	-2.131e+001	262.606	2.336e+001
-161.000	0.000	1.291e+000	1.267e+000
193.700	-2.135e+001	265.230	2.308e+001
-160.000	0.000	9.136e-001	8.879e-001
189.867	-2.137e+001	267.671	2.246e+001
-159.000	0.000	8.850e-002	5.743e-002
185.750	-2.138e+001	269.855	2.149e+001
-158.000	0.000	-1.216e+000	-1.258e+000
180.939	-2.140e+001	271.738	2.014e+001
-157.000	0.000	-3.077e+000	-3.141e+000
174.717	-2.143e+001	273.297	1.839e+001
-156.000	0.000	-5.632e+000	-5.747e+000
165.477	-2.148e+001	274.531	1.625e+001
-155.000	0.000	-8.983e+000	-9.230e+000
148.953	-2.156e+001	275.456	1.441e+001
-154.000	0.000	-1.225e+001	-1.278e+001
114.671	-2.166e+001	276.105	1.979e+001
-153.000	0.000	-1.200e+001	-1.248e+001
67.909	-2.180e+001	276.521	1.649e+001
-152.000	0.000	-9.415e+000	-9.663e+000
40.588	-2.197e+001	276.757	1.408e+001
-151.000	0.000	-7.335e+000	-7.480e+000
26.899	-2.216e+001	276.873	1.526e+001
-150.000	0.000	-6.085e+000	-6.188e+000
18.413	-2.239e+001	276.942	1.638e+001
-149.000	0.000	-5.543e+000	-5.629e+000
11.939	-2.263e+001	277.040	1.703e+001
-148.000	0.000	-5.628e+000	-5.710e+000
6.042	-2.289e+001	277.249	1.718e+001
-147.000	0.000	-6.326e+000	-6.417e+000
359.698	-2.316e+001	277.657	1.683e+001
-146.000	0.000	-7.690e+000	-7.808e+000
351.572	-2.344e+001	278.345	1.603e+001
-145.000	0.000	-9.805e+000	-9.985e+000
338.935	-2.372e+001	279.392	1.512e+001
-144.000	0.000	-1.243e+001	-1.275e+001
315.149	-2.399e+001	280.869	1.668e+001
-143.000	0.000	-1.342e+001	-1.379e+001
273.877	-2.425e+001	282.826	2.735e+001
-142.000	0.000	-1.094e+001	-1.114e+001
238.443	-2.449e+001	285.293	1.628e+001
-141.000	0.000	-7.858e+000	-7.949e+000
220.318	-2.470e+001	288.269	1.743e+001
-140.000	0.000	-5.403e+000	-5.453e+000
210.643	-2.485e+001	291.714	1.951e+001
-139.000	0.000	-3.574e+000	-3.606e+000
204.655	-2.496e+001	295.553	2.135e+001

-138.000	0.000	-2.238e+000	-2.261e+000
200.492	-2.500e+001	299.680	2.285e+001
-137.000	0.000	-1.294e+000	-1.313e+000
197.344	-2.497e+001	303.965	2.404e+001
-136.000	0.000	-6.743e-001	-6.908e-001
194.808	-2.489e+001	308.275	2.496e+001
-135.000	0.000	-3.368e-001	-3.525e-001
192.658	-2.476e+001	312.489	2.565e+001
-134.000	0.000	-2.548e-001	-2.708e-001
190.751	-2.459e+001	316.507	2.614e+001
-133.000	0.000	-4.145e-001	-4.319e-001
188.986	-2.439e+001	320.266	2.646e+001
-132.000	0.000	-8.126e-001	-8.326e-001
187.281	-2.419e+001	323.726	2.661e+001
-131.000	0.000	-1.456e+000	-1.481e+000
185.553	-2.399e+001	326.877	2.662e+001
-130.000	0.000	-2.366e+000	-2.397e+000
183.699	-2.381e+001	329.721	2.651e+001
-129.000	0.000	-3.578e+000	-3.621e+000
181.575	-2.365e+001	332.276	2.630e+001
-128.000	0.000	-5.158e+000	-5.221e+000
178.924	-2.351e+001	334.561	2.609e+001
-127.000	0.000	-7.217e+000	-7.322e+000
175.231	-2.342e+001	336.603	2.620e+001
-126.000	0.000	-9.948e+000	-1.015e+001
169.239	-2.336e+001	338.426	2.813e+001
-125.000	0.000	-1.364e+001	-1.413e+001
156.971	-2.334e+001	340.050	3.558e+001
-124.000	0.000	-1.780e+001	-1.922e+001
122.496	-2.335e+001	341.497	1.020e+001
-123.000	0.000	-1.725e+001	-1.846e+001
60.921	-2.341e+001	342.785	5.305e+000
-122.000	0.000	-1.344e+001	-1.389e+001
34.105	-2.351e+001	343.926	1.231e+001
-121.000	0.000	-1.047e+001	-1.068e+001
24.063	-2.364e+001	344.936	1.723e+001
-120.000	0.000	-8.358e+000	-8.483e+000
18.999	-2.381e+001	345.822	2.074e+001
-119.000	0.000	-6.838e+000	-6.922e+000
15.919	-2.402e+001	346.593	2.342e+001
-118.000	0.000	-5.726e+000	-5.788e+000
13.819	-2.426e+001	347.255	2.556e+001
-117.000	0.000	-4.914e+000	-4.962e+000
12.274	-2.453e+001	347.813	2.730e+001
-116.000	0.000	-4.333e+000	-4.372e+000
11.076	-2.483e+001	348.269	2.875e+001
-115.000	0.000	-3.938e+000	-3.971e+000
10.111	-2.516e+001	348.625	2.997e+001
-114.000	0.000	-3.695e+000	-3.724e+000
9.312	-2.551e+001	348.881	3.098e+001
-113.000	0.000	-3.582e+000	-3.607e+000
8.635	-2.589e+001	349.038	3.182e+001
-112.000	0.000	-3.580e+000	-3.603e+000
8.052	-2.630e+001	349.092	3.250e+001
-111.000	0.000	-3.676e+000	-3.697e+000
7.545	-2.673e+001	349.042	3.304e+001
-110.000	0.000	-3.857e+000	-3.878e+000
7.096	-2.717e+001	348.883	3.343e+001
-109.000	0.000	-4.116e+000	-4.135e+000
6.698	-2.764e+001	348.612	3.370e+001
-108.000	0.000	-4.444e+000	-4.463e+000
6.341	-2.812e+001	348.224	3.384e+001
-107.000	0.000	-4.835e+000	-4.853e+000
6.019	-2.862e+001	347.714	3.386e+001

-106.000	0.000	-5.283e+000	-5.301e+000
5.728	-2.914e+001	347.077	3.377e+001
-105.000	0.000	-5.783e+000	-5.801e+000
5.462	-2.967e+001	346.305	3.358e+001
-104.000	0.000	-6.330e+000	-6.348e+000
5.217	-3.020e+001	345.393	3.328e+001
-103.000	0.000	-6.921e+000	-6.940e+000
4.989	-3.075e+001	344.335	3.290e+001
-102.000	0.000	-7.553e+000	-7.571e+000
4.773	-3.131e+001	343.123	3.243e+001
-101.000	0.000	-8.220e+000	-8.239e+000
4.565	-3.188e+001	341.751	3.190e+001
-100.000	0.000	-8.920e+000	-8.939e+000
4.359	-3.245e+001	340.213	3.131e+001
-99.000	0.000	-9.650e+000	-9.670e+000
4.147	-3.303e+001	338.504	3.067e+001
-98.000	0.000	-1.041e+001	-1.043e+001
3.920	-3.361e+001	336.618	2.999e+001
-97.000	0.000	-1.118e+001	-1.121e+001
3.668	-3.420e+001	334.552	2.928e+001
-96.000	0.000	-1.198e+001	-1.201e+001
3.374	-3.479e+001	332.300	2.856e+001
-95.000	0.000	-1.279e+001	-1.282e+001
3.023	-3.538e+001	329.863	2.784e+001
-94.000	0.000	-1.362e+001	-1.364e+001
2.591	-3.598e+001	327.237	2.712e+001
-93.000	0.000	-1.444e+001	-1.447e+001
2.051	-3.657e+001	324.423	2.642e+001
-92.000	0.000	-1.527e+001	-1.530e+001
1.371	-3.717e+001	321.420	2.576e+001
-91.000	0.000	-1.609e+001	-1.612e+001
0.513	-3.778e+001	318.229	2.514e+001
-90.000	0.000	-1.688e+001	-1.692e+001
359.436	-3.839e+001	314.848	2.458e+001
-89.000	0.000	-1.765e+001	-1.768e+001
358.097	-3.901e+001	311.275	2.410e+001
-88.000	0.000	-1.838e+001	-1.841e+001
356.455	-3.964e+001	307.500	2.371e+001
-87.000	0.000	-1.905e+001	-1.908e+001
354.478	-4.030e+001	303.509	2.344e+001
-86.000	0.000	-1.964e+001	-1.967e+001
352.153	-4.098e+001	299.274	2.330e+001
-85.000	0.000	-2.014e+001	-2.017e+001
349.491	-4.170e+001	294.749	2.331e+001
-84.000	0.000	-2.053e+001	-2.056e+001
346.538	-4.247e+001	289.861	2.349e+001
-83.000	0.000	-2.081e+001	-2.083e+001
343.375	-4.330e+001	284.496	2.383e+001
-82.000	0.000	-2.095e+001	-2.097e+001
340.114	-4.421e+001	278.476	2.436e+001
-81.000	0.000	-2.097e+001	-2.098e+001
336.879	-4.520e+001	271.528	2.505e+001
-80.000	0.000	-2.087e+001	-2.088e+001
333.786	-4.628e+001	263.229	2.591e+001
-79.000	0.000	-2.066e+001	-2.067e+001
330.931	-4.742e+001	252.963	2.694e+001
-78.000	0.000	-2.038e+001	-2.039e+001
328.375	-4.853e+001	239.940	2.815e+001
-77.000	0.000	-2.004e+001	-2.004e+001
326.146	-4.940e+001	223.563	2.956e+001
-76.000	0.000	-1.966e+001	-1.966e+001
324.242	-4.967e+001	204.443	3.125e+001
-75.000	0.000	-1.926e+001	-1.926e+001
322.641	-4.916e+001	185.108	3.332e+001

-74.000	0.000	-1.885e+001	-1.886e+001
321.306	-4.800e+001	168.357	3.600e+001
-73.000	0.000	-1.847e+001	-1.847e+001
320.197	-4.655e+001	155.196	3.983e+001
-72.000	0.000	-1.810e+001	-1.811e+001
319.269	-4.505e+001	145.173	4.000e+001
-71.000	0.000	-1.778e+001	-1.779e+001
318.477	-4.363e+001	137.481	4.000e+001
-70.000	0.000	-1.751e+001	-1.752e+001
317.780	-4.233e+001	131.446	4.000e+001
-69.000	0.000	-1.729e+001	-1.731e+001
317.135	-4.117e+001	126.594	3.865e+001
-68.000	0.000	-1.714e+001	-1.717e+001
316.497	-4.013e+001	122.608	3.540e+001
-67.000	0.000	-1.708e+001	-1.710e+001
315.825	-3.921e+001	119.275	3.307e+001
-66.000	0.000	-1.710e+001	-1.713e+001
315.068	-3.841e+001	116.449	3.126e+001
-65.000	0.000	-1.722e+001	-1.726e+001
314.166	-3.772e+001	114.026	2.979e+001
-64.000	0.000	-1.746e+001	-1.750e+001
313.046	-3.713e+001	111.933	2.858e+001
-63.000	0.000	-1.782e+001	-1.788e+001
311.606	-3.665e+001	110.115	2.759e+001
-62.000	0.000	-1.834e+001	-1.841e+001
309.705	-3.626e+001	108.532	2.682e+001
-61.000	0.000	-1.903e+001	-1.912e+001
307.129	-3.597e+001	107.152	2.634e+001
-60.000	0.000	-1.991e+001	-2.002e+001
303.544	-3.578e+001	105.949	2.636e+001
-59.000	0.000	-2.100e+001	-2.115e+001
298.411	-3.569e+001	104.902	2.746e+001
-58.000	0.000	-2.229e+001	-2.249e+001
290.833	-3.571e+001	103.993	3.209e+001
-57.000	0.000	-2.368e+001	-2.396e+001
279.456	-3.582e+001	103.205	3.610e+001
-56.000	0.000	-2.488e+001	-2.522e+001
262.879	-3.605e+001	102.520	2.092e+001
-55.000	0.000	-2.532e+001	-2.567e+001
241.921	-3.638e+001	101.917	1.499e+001
-54.000	0.000	-2.471e+001	-2.499e+001
221.520	-3.683e+001	101.369	1.325e+001
-53.000	0.000	-2.345e+001	-2.363e+001
205.990	-3.739e+001	100.838	1.409e+001
-52.000	0.000	-2.207e+001	-2.218e+001
195.475	-3.805e+001	100.272	1.591e+001
-51.000	0.000	-2.087e+001	-2.094e+001
188.485	-3.883e+001	99.591	1.789e+001
-50.000	0.000	-1.993e+001	-1.998e+001
183.752	-3.969e+001	98.678	1.974e+001
-49.000	0.000	-1.929e+001	-1.933e+001
180.472	-4.061e+001	97.378	2.135e+001
-48.000	0.000	-1.896e+001	-1.898e+001
178.165	-4.156e+001	95.480	2.265e+001
-47.000	0.000	-1.894e+001	-1.896e+001
176.544	-4.245e+001	92.758	2.354e+001
-46.000	0.000	-1.927e+001	-1.929e+001
175.439	-4.318e+001	89.051	2.391e+001
-45.000	0.000	-2.000e+001	-2.002e+001
174.766	-4.363e+001	84.428	2.361e+001
-44.000	0.000	-2.122e+001	-2.125e+001
174.517	-4.369e+001	79.304	2.248e+001
-43.000	0.000	-2.313e+001	-2.317e+001
174.818	-4.333e+001	74.370	2.031e+001

-42.000	0.000	-2.612e+001	-2.622e+001
176.165	-4.260e+001	70.231	1.673e+001
-41.000	0.000	-3.132e+001	-3.175e+001
181.113	-4.162e+001	67.155	1.081e+001
-40.000	0.000	-3.943e+001	-4.601e+001
252.067	-4.051e+001	65.073	2.592e+001
-39.000	0.000	-3.137e+001	-3.212e+001
338.139	-3.938e+001	63.744	7.294e+000
-38.000	0.000	-2.604e+001	-2.631e+001
343.715	-3.829e+001	62.904	1.216e+001
-37.000	0.000	-2.297e+001	-2.314e+001
345.469	-3.729e+001	62.331	1.440e+001
-36.000	0.000	-2.105e+001	-2.118e+001
346.277	-3.641e+001	61.854	1.553e+001
-35.000	0.000	-1.988e+001	-1.999e+001
346.709	-3.567e+001	61.349	1.601e+001
-34.000	0.000	-1.929e+001	-1.941e+001
346.942	-3.507e+001	60.717	1.603e+001
-33.000	0.000	-1.923e+001	-1.936e+001
347.043	-3.462e+001	59.879	1.567e+001
-32.000	0.000	-1.971e+001	-1.986e+001
347.028	-3.431e+001	58.757	1.494e+001
-31.000	0.000	-2.079e+001	-2.099e+001
346.876	-3.416e+001	57.273	1.374e+001
-30.000	0.000	-2.265e+001	-2.297e+001
346.499	-3.414e+001	55.342	1.187e+001
-29.000	0.000	-2.569e+001	-2.634e+001
345.594	-3.424e+001	52.871	8.846e+000
-28.000	0.000	-3.073e+001	-3.313e+001
342.308	-3.445e+001	49.770	3.760e+000
-27.000	0.000	-3.423e+001	-4.394e+001
189.083	-3.472e+001	45.968	1.432e+001
-26.000	0.000	-2.839e+001	-2.945e+001
171.824	-3.501e+001	41.458	9.025e+000
-25.000	0.000	-2.420e+001	-2.455e+001
169.932	-3.527e+001	36.339	1.387e+001
-24.000	0.000	-2.166e+001	-2.184e+001
169.048	-3.543e+001	30.861	1.732e+001
-23.000	0.000	-2.013e+001	-2.026e+001
168.388	-3.547e+001	25.418	1.979e+001
-22.000	0.000	-1.933e+001	-1.944e+001
167.751	-3.537e+001	20.457	2.143e+001
-21.000	0.000	-1.915e+001	-1.926e+001
167.036	-3.514e+001	16.357	2.225e+001
-20.000	0.000	-1.957e+001	-1.971e+001
166.153	-3.482e+001	13.330	2.213e+001
-19.000	0.000	-2.065e+001	-2.084e+001
164.967	-3.444e+001	11.401	2.093e+001
-18.000	0.000	-2.255e+001	-2.287e+001
163.196	-3.403e+001	10.443	1.847e+001
-17.000	0.000	-2.561e+001	-2.636e+001
159.994	-3.362e+001	10.242	1.441e+001
-16.000	0.000	-3.029e+001	-3.336e+001
150.242	-3.324e+001	10.541	8.710e+000
-15.000	0.000	-3.219e+001	-4.045e+001
21.729	-3.289e+001	11.080	2.360e+001
-14.000	0.000	-2.744e+001	-2.902e+001
352.167	-3.258e+001	11.620	1.607e+001
-13.000	0.000	-2.381e+001	-2.446e+001
346.311	-3.234e+001	11.955	1.627e+001
-12.000	0.000	-2.154e+001	-2.194e+001
342.343	-3.218e+001	11.919	1.699e+001
-11.000	0.000	-2.017e+001	-2.046e+001
338.386	-3.209e+001	11.380	1.732e+001

-10.000	0.000	-1.944e+001	-1.968e+001
333.764	-3.207e+001	10.243	1.723e+001
-9.000	0.000	-1.917e+001	-1.940e+001
327.971	-3.213e+001	8.453	1.675e+001
-8.000	0.000	-1.925e+001	-1.948e+001
320.511	-3.223e+001	6.002	1.593e+001
-7.000	0.000	-1.951e+001	-1.974e+001
310.973	-3.237e+001	2.948	1.489e+001
-6.000	0.000	-1.975e+001	-1.999e+001
299.367	-3.252e+001	359.430	1.390e+001
-5.000	0.000	-1.978e+001	-2.001e+001
286.595	-3.265e+001	355.676	1.329e+001
-4.000	0.000	-1.951e+001	-1.972e+001
274.392	-3.274e+001	351.988	1.325e+001
-3.000	0.000	-1.903e+001	-1.922e+001
264.384	-3.280e+001	348.698	1.362e+001
-2.000	0.000	-1.855e+001	-1.871e+001
257.311	-3.282e+001	346.115	1.411e+001
-1.000	0.000	-1.820e+001	-1.835e+001
253.196	-3.283e+001	344.478	1.448e+001