

Theta [deg.]	Phi [deg.]	Abs(Grlz)[dB]	Abs(Theta)[dB]	Phase(Theta)
[deg.]	Abs(Phi) [dB]	Phase(Phi) [deg.]	Ax.Ratio [dB]	
0.000	90.000	-1.987e+000	-2.025e+000	
279.273	-2.253e+001	159.445	2.176e+001	
1.000	90.000	-2.057e+000	-2.095e+000	
278.891	-2.258e+001	157.729	2.186e+001	
2.000	90.000	-2.264e+000	-2.304e+000	
278.494	-2.261e+001	155.862	2.182e+001	
3.000	90.000	-2.612e+000	-2.656e+000	
278.064	-2.260e+001	153.864	2.162e+001	
4.000	90.000	-3.112e+000	-3.161e+000	
277.582	-2.257e+001	151.761	2.126e+001	
5.000	90.000	-3.778e+000	-3.836e+000	
277.018	-2.250e+001	149.582	2.071e+001	
6.000	90.000	-4.633e+000	-4.706e+000	
276.330	-2.241e+001	147.355	1.995e+001	
7.000	90.000	-5.711e+000	-5.808e+000	
275.448	-2.229e+001	145.109	1.892e+001	
8.000	90.000	-7.066e+000	-7.203e+000	
274.251	-2.215e+001	142.869	1.756e+001	
9.000	90.000	-8.778e+000	-8.991e+000	
272.498	-2.198e+001	140.659	1.574e+001	
10.000	90.000	-1.098e+001	-1.135e+001	
269.644	-2.180e+001	138.494	1.326e+001	
11.000	90.000	-1.386e+001	-1.466e+001	
264.138	-2.161e+001	136.389	9.702e+000	
12.000	90.000	-1.750e+001	-1.976e+001	
249.593	-2.141e+001	134.352	4.310e+000	
13.000	90.000	-1.983e+001	-2.549e+001	
190.263	-2.121e+001	132.387	6.841e+000	
14.000	90.000	-1.740e+001	-1.987e+001	
132.140	-2.101e+001	130.493	3.692e+001	
15.000	90.000	-1.402e+001	-1.504e+001	
117.926	-2.082e+001	128.670	2.235e+001	
16.000	90.000	-1.142e+001	-1.198e+001	
112.540	-2.063e+001	126.911	2.181e+001	
17.000	90.000	-9.487e+000	-9.850e+000	
109.778	-2.045e+001	125.210	2.278e+001	
18.000	90.000	-8.029e+000	-8.295e+000	
108.125	-2.029e+001	123.561	2.399e+001	
19.000	90.000	-6.920e+000	-7.132e+000	
107.045	-2.014e+001	121.954	2.519e+001	
20.000	90.000	-6.084e+000	-6.264e+000	
106.304	-2.000e+001	120.382	2.636e+001	
21.000	90.000	-5.470e+000	-5.630e+000	
105.786	-1.988e+001	118.835	2.748e+001	
22.000	90.000	-5.046e+000	-5.195e+000	
105.426	-1.978e+001	117.306	2.860e+001	
23.000	90.000	-4.791e+000	-4.934e+000	
105.191	-1.970e+001	115.786	2.975e+001	
24.000	90.000	-4.692e+000	-4.834e+000	
105.059	-1.963e+001	114.267	3.099e+001	
25.000	90.000	-4.742e+000	-4.887e+000	
105.024	-1.958e+001	112.742	3.242e+001	
26.000	90.000	-4.938e+000	-5.091e+000	
105.086	-1.955e+001	111.205	3.421e+001	
27.000	90.000	-5.284e+000	-5.451e+000	
105.254	-1.954e+001	109.650	3.673e+001	
28.000	90.000	-5.789e+000	-5.976e+000	
105.549	-1.955e+001	108.069	4.000e+001	
29.000	90.000	-6.466e+000	-6.684e+000	
106.007	-1.957e+001	106.460	4.000e+001	

30.000	90.000	-7.340e+000	-7.605e+000
106.692	-1.960e+001	104.816	4.000e+001
31.000	90.000	-8.444e+000	-8.786e+000
107.715	-1.965e+001	103.135	3.350e+001
32.000	90.000	-9.832e+000	-1.030e+001
109.291	-1.972e+001	101.414	2.760e+001
33.000	90.000	-1.158e+001	-1.229e+001
111.876	-1.979e+001	99.650	2.236e+001
34.000	90.000	-1.377e+001	-1.499e+001
116.626	-1.988e+001	97.841	1.700e+001
35.000	90.000	-1.640e+001	-1.891e+001
127.346	-1.998e+001	95.987	1.111e+001
36.000	90.000	-1.869e+001	-2.431e+001
161.407	-2.009e+001	94.089	5.594e+000
37.000	90.000	-1.840e+001	-2.310e+001
228.173	-2.020e+001	92.147	8.524e+000
38.000	90.000	-1.588e+001	-1.781e+001
253.838	-2.032e+001	90.163	1.724e+001
39.000	90.000	-1.325e+001	-1.417e+001
262.573	-2.045e+001	88.140	2.837e+001
40.000	90.000	-1.107e+001	-1.159e+001
266.685	-2.058e+001	86.081	4.000e+001
41.000	90.000	-9.316e+000	-9.643e+000
269.009	-2.071e+001	83.991	3.288e+001
42.000	90.000	-7.887e+000	-8.112e+000
270.469	-2.085e+001	81.874	2.969e+001
43.000	90.000	-6.710e+000	-6.876e+000
271.448	-2.098e+001	79.735	2.828e+001
44.000	90.000	-5.732e+000	-5.859e+000
272.132	-2.112e+001	77.581	2.750e+001
45.000	90.000	-4.914e+000	-5.016e+000
272.622	-2.126e+001	75.417	2.701e+001
46.000	90.000	-4.229e+000	-4.313e+000
272.977	-2.140e+001	73.249	2.667e+001
47.000	90.000	-3.656e+000	-3.727e+000
273.236	-2.154e+001	71.083	2.640e+001
48.000	90.000	-3.180e+000	-3.241e+000
273.422	-2.167e+001	68.924	2.618e+001
49.000	90.000	-2.787e+000	-2.842e+000
273.553	-2.181e+001	66.778	2.598e+001
50.000	90.000	-2.469e+000	-2.518e+000
273.640	-2.195e+001	64.649	2.580e+001
51.000	90.000	-2.218e+000	-2.263e+000
273.692	-2.209e+001	62.541	2.561e+001
52.000	90.000	-2.026e+000	-2.068e+000
273.715	-2.222e+001	60.457	2.543e+001
53.000	90.000	-1.889e+000	-1.928e+000
273.715	-2.236e+001	58.400	2.525e+001
54.000	90.000	-1.802e+000	-1.839e+000
273.696	-2.250e+001	56.372	2.505e+001
55.000	90.000	-1.761e+000	-1.796e+000
273.660	-2.264e+001	54.375	2.486e+001
56.000	90.000	-1.762e+000	-1.796e+000
273.610	-2.279e+001	52.407	2.465e+001
57.000	90.000	-1.802e+000	-1.836e+000
273.549	-2.293e+001	50.470	2.444e+001
58.000	90.000	-1.879e+000	-1.912e+000
273.477	-2.308e+001	48.562	2.423e+001
59.000	90.000	-1.991e+000	-2.023e+000
273.396	-2.323e+001	46.682	2.400e+001
60.000	90.000	-2.134e+000	-2.167e+000
273.307	-2.339e+001	44.829	2.377e+001
61.000	90.000	-2.308e+000	-2.340e+000
273.212	-2.355e+001	42.999	2.353e+001

62.000	90.000	-2.509e+000	-2.542e+000
273.110	-2.372e+001	41.191	2.328e+001
63.000	90.000	-2.738e+000	-2.771e+000
273.004	-2.390e+001	39.401	2.303e+001
64.000	90.000	-2.991e+000	-3.025e+000
272.892	-2.407e+001	37.627	2.278e+001
65.000	90.000	-3.267e+000	-3.302e+000
272.775	-2.426e+001	35.865	2.251e+001
66.000	90.000	-3.566e+000	-3.601e+000
272.654	-2.445e+001	34.112	2.225e+001
67.000	90.000	-3.884e+000	-3.921e+000
272.527	-2.465e+001	32.365	2.198e+001
68.000	90.000	-4.222e+000	-4.259e+000
272.395	-2.485e+001	30.619	2.171e+001
69.000	90.000	-4.577e+000	-4.616e+000
272.257	-2.506e+001	28.872	2.144e+001
70.000	90.000	-4.947e+000	-4.988e+000
272.112	-2.528e+001	27.120	2.117e+001
71.000	90.000	-5.332e+000	-5.374e+000
271.958	-2.551e+001	25.360	2.089e+001
72.000	90.000	-5.730e+000	-5.773e+000
271.793	-2.574e+001	23.587	2.063e+001
73.000	90.000	-6.138e+000	-6.183e+000
271.616	-2.598e+001	21.799	2.036e+001
74.000	90.000	-6.555e+000	-6.602e+000
271.423	-2.623e+001	19.993	2.010e+001
75.000	90.000	-6.979e+000	-7.028e+000
271.212	-2.649e+001	18.164	1.986e+001
76.000	90.000	-7.408e+000	-7.459e+000
270.977	-2.675e+001	16.310	1.962e+001
77.000	90.000	-7.838e+000	-7.891e+000
270.715	-2.703e+001	14.426	1.939e+001
78.000	90.000	-8.267e+000	-8.322e+000
270.420	-2.731e+001	12.511	1.919e+001
79.000	90.000	-8.693e+000	-8.749e+000
270.087	-2.760e+001	10.561	1.900e+001
80.000	90.000	-9.110e+000	-9.168e+000
269.710	-2.790e+001	8.571	1.883e+001
81.000	90.000	-9.516e+000	-9.575e+000
269.281	-2.820e+001	6.539	1.870e+001
82.000	90.000	-9.906e+000	-9.966e+000
268.795	-2.852e+001	4.461	1.860e+001
83.000	90.000	-1.028e+001	-1.034e+001
268.245	-2.884e+001	2.333	1.853e+001
84.000	90.000	-1.062e+001	-1.068e+001
267.627	-2.918e+001	0.151	1.851e+001
85.000	90.000	-1.093e+001	-1.099e+001
266.936	-2.953e+001	357.912	1.853e+001
86.000	90.000	-1.121e+001	-1.127e+001
266.171	-2.988e+001	355.610	1.861e+001
87.000	90.000	-1.145e+001	-1.151e+001
265.333	-3.025e+001	353.240	1.875e+001
88.000	90.000	-1.164e+001	-1.170e+001
264.427	-3.063e+001	350.796	1.895e+001
89.000	90.000	-1.178e+001	-1.183e+001
263.459	-3.102e+001	348.273	1.923e+001
90.000	90.000	-1.187e+001	-1.192e+001
262.442	-3.143e+001	345.662	1.957e+001
91.000	90.000	-1.190e+001	-1.194e+001
261.390	-3.185e+001	342.955	2.000e+001
92.000	90.000	-1.187e+001	-1.191e+001
260.320	-3.228e+001	340.142	2.051e+001
93.000	90.000	-1.179e+001	-1.182e+001
259.250	-3.273e+001	337.211	2.111e+001

94.000	90.000	-1.164e+001	-1.167e+001
258.198	-3.320e+001	334.148	2.179e+001
95.000	90.000	-1.144e+001	-1.147e+001
257.181	-3.368e+001	330.936	2.257e+001
96.000	90.000	-1.119e+001	-1.122e+001
256.215	-3.419e+001	327.555	2.345e+001
97.000	90.000	-1.090e+001	-1.092e+001
255.312	-3.471e+001	323.981	2.442e+001
98.000	90.000	-1.056e+001	-1.057e+001
254.480	-3.526e+001	320.184	2.550e+001
99.000	90.000	-1.018e+001	-1.019e+001
253.727	-3.582e+001	316.129	2.668e+001
100.000	90.000	-9.775e+000	-9.785e+000
253.053	-3.641e+001	311.772	2.800e+001
101.000	90.000	-9.342e+000	-9.350e+000
252.461	-3.702e+001	307.063	2.945e+001
102.000	90.000	-8.889e+000	-8.894e+000
251.947	-3.764e+001	301.940	3.107e+001
103.000	90.000	-8.419e+000	-8.424e+000
251.508	-3.828e+001	296.335	3.289e+001
104.000	90.000	-7.939e+000	-7.942e+000
251.141	-3.891e+001	290.171	3.499e+001
105.000	90.000	-7.451e+000	-7.454e+000
250.839	-3.954e+001	283.372	3.748e+001
106.000	90.000	-6.961e+000	-6.963e+000
250.598	-4.014e+001	275.872	4.000e+001
107.000	90.000	-6.471e+000	-6.472e+000
250.413	-4.067e+001	267.638	4.000e+001
108.000	90.000	-5.984e+000	-5.985e+000
250.279	-4.112e+001	258.700	4.000e+001
109.000	90.000	-5.503e+000	-5.504e+000
250.191	-4.145e+001	249.170	4.000e+001
110.000	90.000	-5.030e+000	-5.031e+000
250.144	-4.162e+001	239.262	4.000e+001
111.000	90.000	-4.569e+000	-4.569e+000
250.136	-4.163e+001	229.266	4.000e+001
112.000	90.000	-4.120e+000	-4.121e+000
250.163	-4.148e+001	219.490	4.000e+001
113.000	90.000	-3.686e+000	-3.686e+000
250.221	-4.119e+001	210.194	4.000e+001
114.000	90.000	-3.268e+000	-3.269e+000
250.309	-4.080e+001	201.549	4.000e+001
115.000	90.000	-2.868e+000	-2.869e+000
250.424	-4.034e+001	193.627	3.902e+001
116.000	90.000	-2.489e+000	-2.489e+000
250.564	-3.983e+001	186.425	3.826e+001
117.000	90.000	-2.130e+000	-2.131e+000
250.727	-3.931e+001	179.890	3.768e+001
118.000	90.000	-1.795e+000	-1.796e+000
250.913	-3.880e+001	173.949	3.723e+001
119.000	90.000	-1.484e+000	-1.485e+000
251.120	-3.830e+001	168.522	3.689e+001
120.000	90.000	-1.200e+000	-1.201e+000
251.347	-3.783e+001	163.534	3.663e+001
121.000	90.000	-9.434e-001	-9.444e-001
251.594	-3.738e+001	158.916	3.645e+001
122.000	90.000	-7.172e-001	-7.182e-001
251.858	-3.697e+001	154.609	3.632e+001
123.000	90.000	-5.231e-001	-5.242e-001
252.141	-3.659e+001	150.564	3.625e+001
124.000	90.000	-3.637e-001	-3.648e-001
252.442	-3.625e+001	146.737	3.622e+001
125.000	90.000	-2.414e-001	-2.425e-001
252.759	-3.595e+001	143.093	3.623e+001

126.000	90.000	-1.592e-001	-1.604e-001
253.093	-3.568e+001	139.603	3.627e+001
127.000	90.000	-1.206e-001	-1.219e-001
253.442	-3.544e+001	136.242	3.634e+001
128.000	90.000	-1.297e-001	-1.311e-001
253.806	-3.525e+001	132.988	3.644e+001
129.000	90.000	-1.913e-001	-1.927e-001
254.185	-3.509e+001	129.824	3.656e+001
130.000	90.000	-3.110e-001	-3.125e-001
254.576	-3.496e+001	126.735	3.670e+001
131.000	90.000	-4.960e-001	-4.976e-001
254.979	-3.488e+001	123.708	3.686e+001
132.000	90.000	-7.552e-001	-7.569e-001
255.392	-3.483e+001	120.735	3.703e+001
133.000	90.000	-1.100e+000	-1.101e+000
255.810	-3.482e+001	117.806	3.721e+001
134.000	90.000	-1.544e+000	-1.546e+000
256.231	-3.484e+001	114.917	3.738e+001
135.000	90.000	-2.108e+000	-2.111e+000
256.646	-3.491e+001	112.062	3.754e+001
136.000	90.000	-2.820e+000	-2.822e+000
257.045	-3.503e+001	109.241	3.768e+001
137.000	90.000	-3.718e+000	-3.721e+000
257.411	-3.518e+001	106.452	3.775e+001
138.000	90.000	-4.864e+000	-4.868e+000
257.711	-3.539e+001	103.701	3.770e+001
139.000	90.000	-6.357e+000	-6.363e+000
257.883	-3.565e+001	100.991	3.742e+001
140.000	90.000	-8.382e+000	-8.390e+000
257.782	-3.597e+001	98.332	3.669e+001
141.000	90.000	-1.133e+001	-1.134e+001
257.004	-3.636e+001	95.738	3.490e+001
142.000	90.000	-1.634e+001	-1.637e+001
253.753	-3.682e+001	93.229	3.005e+001
143.000	90.000	-2.938e+001	-3.013e+001
214.280	-3.737e+001	90.833	9.360e+000
144.000	90.000	-1.830e+001	-1.835e+001
95.333	-3.803e+001	88.591	3.838e+001
145.000	90.000	-1.143e+001	-1.144e+001
89.905	-3.882e+001	86.565	4.000e+001
146.000	90.000	-7.435e+000	-7.438e+000
88.817	-3.977e+001	84.853	4.000e+001
147.000	90.000	-4.581e+000	-4.582e+000
88.721	-4.095e+001	83.623	4.000e+001
148.000	90.000	-2.344e+000	-2.344e+000
89.017	-4.242e+001	83.186	4.000e+001
149.000	90.000	-4.985e-001	-4.987e-001
89.514	-4.434e+001	84.203	4.000e+001
150.000	90.000	1.075e+000	1.075e+000
90.131	-4.694e+001	88.338	4.000e+001
151.000	90.000	2.446e+000	2.446e+000
90.827	-5.058e+001	100.875	4.000e+001
152.000	90.000	3.660e+000	3.660e+000
91.580	-5.424e+001	138.760	4.000e+001
153.000	90.000	4.748e+000	4.748e+000
92.375	-5.169e+001	188.112	4.000e+001
154.000	90.000	5.731e+000	5.731e+000
93.202	-4.712e+001	207.319	4.000e+001
155.000	90.000	6.626e+000	6.626e+000
94.054	-4.363e+001	213.874	4.000e+001
156.000	90.000	7.445e+000	7.445e+000
94.925	-4.095e+001	216.229	4.000e+001
157.000	90.000	8.196e+000	8.196e+000
95.810	-3.878e+001	216.845	4.000e+001

158.000	90.000	8.888e+000	8.888e+000
96.703	-3.698e+001	216.622	4.000e+001
159.000	90.000	9.527e+000	9.527e+000
97.600	-3.542e+001	215.958	4.000e+001
160.000	90.000	1.012e+001	1.012e+001
98.497	-3.406e+001	215.054	4.000e+001
161.000	90.000	1.066e+001	1.066e+001
99.389	-3.285e+001	214.024	4.000e+001
162.000	90.000	1.117e+001	1.117e+001
100.272	-3.178e+001	212.933	4.000e+001
163.000	90.000	1.164e+001	1.164e+001
101.142	-3.080e+001	211.825	4.000e+001
164.000	90.000	1.207e+001	1.207e+001
101.994	-2.992e+001	210.727	4.000e+001
165.000	90.000	1.247e+001	1.247e+001
102.824	-2.913e+001	209.658	4.000e+001
166.000	90.000	1.283e+001	1.283e+001
103.628	-2.840e+001	208.630	4.000e+001
167.000	90.000	1.317e+001	1.317e+001
104.402	-2.775e+001	207.652	4.000e+001
168.000	90.000	1.347e+001	1.347e+001
105.141	-2.715e+001	206.731	4.000e+001
169.000	90.000	1.375e+001	1.375e+001
105.842	-2.662e+001	205.871	4.000e+001
170.000	90.000	1.400e+001	1.400e+001
106.500	-2.614e+001	205.075	4.000e+001
171.000	90.000	1.423e+001	1.423e+001
107.113	-2.572e+001	204.346	4.000e+001
172.000	90.000	1.443e+001	1.443e+001
107.675	-2.535e+001	203.684	3.982e+001
173.000	90.000	1.460e+001	1.460e+001
108.185	-2.503e+001	203.091	3.966e+001
174.000	90.000	1.475e+001	1.475e+001
108.640	-2.475e+001	202.569	3.952e+001
175.000	90.000	1.487e+001	1.487e+001
109.035	-2.453e+001	202.117	3.941e+001
176.000	90.000	1.497e+001	1.497e+001
109.370	-2.435e+001	201.737	3.932e+001
177.000	90.000	1.504e+001	1.504e+001
109.642	-2.422e+001	201.430	3.926e+001
178.000	90.000	1.509e+001	1.509e+001
109.849	-2.413e+001	201.196	3.922e+001
179.000	90.000	1.511e+001	1.511e+001
109.989	-2.409e+001	201.037	3.921e+001
180.000	90.000	1.511e+001	1.511e+001
110.062	-2.410e+001	200.954	3.921e+001
-179.000	90.000	1.509e+001	1.509e+001
110.066	-2.415e+001	200.950	3.924e+001
-178.000	90.000	1.504e+001	1.504e+001
110.001	-2.425e+001	201.026	3.929e+001
-177.000	90.000	1.496e+001	1.496e+001
109.866	-2.440e+001	201.186	3.937e+001
-176.000	90.000	1.486e+001	1.486e+001
109.661	-2.460e+001	201.432	3.946e+001
-175.000	90.000	1.474e+001	1.474e+001
109.387	-2.484e+001	201.769	3.959e+001
-174.000	90.000	1.459e+001	1.459e+001
109.044	-2.514e+001	202.203	3.974e+001
-173.000	90.000	1.441e+001	1.441e+001
108.632	-2.549e+001	202.740	3.992e+001
-172.000	90.000	1.421e+001	1.421e+001
108.152	-2.589e+001	203.388	4.000e+001
-171.000	90.000	1.398e+001	1.398e+001
107.605	-2.635e+001	204.157	4.000e+001

-170.000	90.000	1.372e+001	1.372e+001
106.992	-2.687e+001	205.059	4.000e+001
-169.000	90.000	1.343e+001	1.343e+001
106.314	-2.745e+001	206.110	4.000e+001
-168.000	90.000	1.312e+001	1.312e+001
105.572	-2.810e+001	207.330	4.000e+001
-167.000	90.000	1.277e+001	1.277e+001
104.766	-2.882e+001	208.745	4.000e+001
-166.000	90.000	1.239e+001	1.239e+001
103.897	-2.962e+001	210.391	4.000e+001
-165.000	90.000	1.197e+001	1.197e+001
102.965	-3.050e+001	212.312	4.000e+001
-164.000	90.000	1.153e+001	1.153e+001
101.969	-3.148e+001	214.574	4.000e+001
-163.000	90.000	1.104e+001	1.104e+001
100.907	-3.257e+001	217.265	4.000e+001
-162.000	90.000	1.051e+001	1.051e+001
99.777	-3.377e+001	220.519	4.000e+001
-161.000	90.000	9.939e+000	9.939e+000
98.575	-3.511e+001	224.529	4.000e+001
-160.000	90.000	9.320e+000	9.320e+000
97.293	-3.660e+001	229.598	4.000e+001
-159.000	90.000	8.649e+000	8.649e+000
95.922	-3.825e+001	236.201	4.000e+001
-158.000	90.000	7.920e+000	7.920e+000
94.449	-4.004e+001	245.085	4.000e+001
-157.000	90.000	7.127e+000	7.127e+000
92.854	-4.189e+001	257.328	4.000e+001
-156.000	90.000	6.261e+000	6.261e+000
91.109	-4.354e+001	274.005	4.000e+001
-155.000	90.000	5.312e+000	5.311e+000
89.173	-4.452e+001	294.684	4.000e+001
-154.000	90.000	4.265e+000	4.265e+000
86.987	-4.449e+001	315.877	4.000e+001
-153.000	90.000	3.104e+000	3.104e+000
84.463	-4.369e+001	333.672	4.000e+001
-152.000	90.000	1.808e+000	1.807e+000
81.460	-4.262e+001	347.118	4.000e+001
-151.000	90.000	3.454e-001	3.451e-001
77.755	-4.157e+001	357.169	4.000e+001
-150.000	90.000	-1.318e+000	-1.319e+000
72.964	-4.065e+001	4.950	3.999e+001
-149.000	90.000	-3.222e+000	-3.223e+000
66.407	-3.988e+001	11.271	3.838e+001
-148.000	90.000	-5.384e+000	-5.385e+000
56.822	-3.927e+001	16.647	3.769e+001
-147.000	90.000	-7.684e+000	-7.688e+000
41.972	-3.878e+001	21.407	4.000e+001
-146.000	90.000	-9.555e+000	-9.560e+000
19.344	-3.840e+001	25.762	4.000e+001
-145.000	90.000	-9.906e+000	-9.912e+000
351.616	-3.813e+001	29.853	3.239e+001
-144.000	90.000	-8.658e+000	-8.663e+000
328.298	-3.793e+001	33.775	3.009e+001
-143.000	90.000	-6.893e+000	-6.896e+000
312.895	-3.782e+001	37.595	3.096e+001
-142.000	90.000	-5.241e+000	-5.243e+000
303.050	-3.777e+001	41.361	3.261e+001
-141.000	90.000	-3.845e+000	-3.846e+000
296.433	-3.777e+001	45.107	3.440e+001
-140.000	90.000	-2.693e+000	-2.694e+000
291.704	-3.784e+001	48.857	3.616e+001
-139.000	90.000	-1.747e+000	-1.748e+000
288.141	-3.794e+001	52.632	3.788e+001

-138.000	90.000	-9.713e-001	-9.722e-001
285.342	-3.810e+001	56.445	3.958e+001
-137.000	90.000	-3.353e-001	-3.360e-001
283.067	-3.829e+001	60.306	4.000e+001
-136.000	90.000	1.833e-001	1.827e-001
281.170	-3.852e+001	64.223	4.000e+001
-135.000	90.000	6.021e-001	6.016e-001
279.553	-3.879e+001	68.205	4.000e+001
-134.000	90.000	9.348e-001	9.343e-001
278.154	-3.909e+001	72.259	4.000e+001
-133.000	90.000	1.192e+000	1.192e+000
276.926	-3.943e+001	76.391	4.000e+001
-132.000	90.000	1.382e+000	1.382e+000
275.837	-3.980e+001	80.613	4.000e+001
-131.000	90.000	1.513e+000	1.513e+000
274.862	-4.021e+001	84.936	4.000e+001
-130.000	90.000	1.590e+000	1.589e+000
273.985	-4.065e+001	89.378	4.000e+001
-129.000	90.000	1.617e+000	1.617e+000
273.191	-4.114e+001	93.962	4.000e+001
-128.000	90.000	1.599e+000	1.599e+000
272.468	-4.166e+001	98.717	4.000e+001
-127.000	90.000	1.539e+000	1.539e+000
271.809	-4.223e+001	103.687	4.000e+001
-126.000	90.000	1.440e+000	1.440e+000
271.205	-4.285e+001	108.923	4.000e+001
-125.000	90.000	1.305e+000	1.305e+000
270.652	-4.351e+001	114.502	4.000e+001
-124.000	90.000	1.137e+000	1.136e+000
270.143	-4.423e+001	120.519	4.000e+001
-123.000	90.000	9.357e-001	9.356e-001
269.676	-4.500e+001	127.104	4.000e+001
-122.000	90.000	7.046e-001	7.045e-001
269.246	-4.581e+001	134.425	4.000e+001
-121.000	90.000	4.451e-001	4.450e-001
268.850	-4.666e+001	142.694	4.000e+001
-120.000	90.000	1.586e-001	1.585e-001
268.485	-4.751e+001	152.151	4.000e+001
-119.000	90.000	-1.534e-001	-1.535e-001
268.149	-4.831e+001	163.028	4.000e+001
-118.000	90.000	-4.896e-001	-4.897e-001
267.840	-4.897e+001	175.431	4.000e+001
-117.000	90.000	-8.487e-001	-8.488e-001
267.555	-4.940e+001	189.165	4.000e+001
-116.000	90.000	-1.229e+000	-1.229e+000
267.293	-4.949e+001	203.606	4.000e+001
-115.000	90.000	-1.630e+000	-1.631e+000
267.052	-4.923e+001	217.822	4.000e+001
-114.000	90.000	-2.051e+000	-2.051e+000
266.831	-4.867e+001	230.968	4.000e+001
-113.000	90.000	-2.489e+000	-2.489e+000
266.626	-4.791e+001	242.589	4.000e+001
-112.000	90.000	-2.943e+000	-2.943e+000
266.438	-4.704e+001	252.632	4.000e+001
-111.000	90.000	-3.412e+000	-3.412e+000
266.265	-4.616e+001	261.268	4.000e+001
-110.000	90.000	-3.895e+000	-3.895e+000
266.105	-4.528e+001	268.743	4.000e+001
-109.000	90.000	-4.389e+000	-4.390e+000
265.957	-4.445e+001	275.291	4.000e+001
-108.000	90.000	-4.894e+000	-4.894e+000
265.819	-4.366e+001	281.106	4.000e+001
-107.000	90.000	-5.406e+000	-5.406e+000
265.691	-4.292e+001	286.344	4.000e+001

-106.000	90.000	-5.923e+000	-5.924e+000
265.571	-4.223e+001	291.120	4.000e+001
-105.000	90.000	-6.443e+000	-6.444e+000
265.458	-4.158e+001	295.526	4.000e+001
-104.000	90.000	-6.963e+000	-6.964e+000
265.351	-4.098e+001	299.630	3.900e+001
-103.000	90.000	-7.479e+000	-7.481e+000
265.249	-4.041e+001	303.484	3.710e+001
-102.000	90.000	-7.988e+000	-7.990e+000
265.151	-3.988e+001	307.130	3.539e+001
-101.000	90.000	-8.485e+000	-8.488e+000
265.057	-3.938e+001	310.599	3.383e+001
-100.000	90.000	-8.966e+000	-8.971e+000
264.966	-3.891e+001	313.916	3.240e+001
-99.000	90.000	-9.427e+000	-9.433e+000
264.878	-3.847e+001	317.099	3.109e+001
-98.000	90.000	-9.862e+000	-9.869e+000
264.793	-3.805e+001	320.166	2.988e+001
-97.000	90.000	-1.027e+001	-1.027e+001
264.712	-3.766e+001	323.128	2.878e+001
-96.000	90.000	-1.063e+001	-1.064e+001
264.635	-3.728e+001	325.995	2.778e+001
-95.000	90.000	-1.096e+001	-1.097e+001
264.563	-3.693e+001	328.775	2.687e+001
-94.000	90.000	-1.124e+001	-1.125e+001
264.499	-3.659e+001	331.475	2.606e+001
-93.000	90.000	-1.146e+001	-1.148e+001
264.444	-3.627e+001	334.100	2.535e+001
-92.000	90.000	-1.164e+001	-1.165e+001
264.399	-3.596e+001	336.654	2.473e+001
-91.000	90.000	-1.175e+001	-1.177e+001
264.367	-3.567e+001	339.141	2.421e+001
-90.000	90.000	-1.181e+001	-1.183e+001
264.350	-3.539e+001	341.563	2.378e+001
-89.000	90.000	-1.181e+001	-1.183e+001
264.348	-3.512e+001	343.925	2.344e+001
-88.000	90.000	-1.176e+001	-1.178e+001
264.363	-3.487e+001	346.228	2.318e+001
-87.000	90.000	-1.165e+001	-1.167e+001
264.396	-3.463e+001	348.475	2.301e+001
-86.000	90.000	-1.148e+001	-1.151e+001
264.445	-3.441e+001	350.668	2.292e+001
-85.000	90.000	-1.128e+001	-1.130e+001
264.512	-3.419e+001	352.809	2.290e+001
-84.000	90.000	-1.103e+001	-1.105e+001
264.594	-3.399e+001	354.902	2.294e+001
-83.000	90.000	-1.074e+001	-1.076e+001
264.691	-3.380e+001	356.948	2.305e+001
-82.000	90.000	-1.042e+001	-1.045e+001
264.801	-3.363e+001	358.952	2.321e+001
-81.000	90.000	-1.008e+001	-1.010e+001
264.922	-3.347e+001	0.915	2.341e+001
-80.000	90.000	-9.721e+000	-9.740e+000
265.053	-3.332e+001	2.843	2.366e+001
-79.000	90.000	-9.344e+000	-9.362e+000
265.192	-3.318e+001	4.739	2.394e+001
-78.000	90.000	-8.956e+000	-8.973e+000
265.338	-3.306e+001	6.608	2.426e+001
-77.000	90.000	-8.562e+000	-8.577e+000
265.490	-3.296e+001	8.456	2.461e+001
-76.000	90.000	-8.165e+000	-8.180e+000
265.645	-3.287e+001	10.289	2.498e+001
-75.000	90.000	-7.769e+000	-7.783e+000
265.803	-3.280e+001	12.114	2.537e+001

-74.000	90.000	-7.378e+000	-7.391e+000
265.962	-3.274e+001	13.940	2.579e+001
-73.000	90.000	-6.994e+000	-7.006e+000
266.122	-3.271e+001	15.776	2.623e+001
-72.000	90.000	-6.620e+000	-6.631e+000
266.281	-3.269e+001	17.632	2.668e+001
-71.000	90.000	-6.258e+000	-6.268e+000
266.438	-3.269e+001	19.522	2.715e+001
-70.000	90.000	-5.911e+000	-5.920e+000
266.593	-3.271e+001	21.460	2.764e+001
-69.000	90.000	-5.580e+000	-5.588e+000
266.744	-3.276e+001	23.464	2.815e+001
-68.000	90.000	-5.267e+000	-5.275e+000
266.890	-3.282e+001	25.553	2.869e+001
-67.000	90.000	-4.975e+000	-4.982e+000
267.031	-3.291e+001	27.752	2.925e+001
-66.000	90.000	-4.705e+000	-4.712e+000
267.165	-3.302e+001	30.086	2.983e+001
-65.000	90.000	-4.460e+000	-4.466e+000
267.292	-3.316e+001	32.590	3.046e+001
-64.000	90.000	-4.241e+000	-4.246e+000
267.409	-3.332e+001	35.300	3.113e+001
-63.000	90.000	-4.050e+000	-4.055e+000
267.515	-3.350e+001	38.259	3.186e+001
-62.000	90.000	-3.889e+000	-3.893e+000
267.610	-3.370e+001	41.519	3.266e+001
-61.000	90.000	-3.761e+000	-3.765e+000
267.691	-3.391e+001	45.134	3.355e+001
-60.000	90.000	-3.667e+000	-3.671e+000
267.755	-3.413e+001	49.164	3.456e+001
-59.000	90.000	-3.612e+000	-3.616e+000
267.802	-3.435e+001	53.670	3.576e+001
-58.000	90.000	-3.598e+000	-3.602e+000
267.827	-3.455e+001	58.703	3.721e+001
-57.000	90.000	-3.629e+000	-3.632e+000
267.828	-3.472e+001	64.296	3.907e+001
-56.000	90.000	-3.708e+000	-3.711e+000
267.800	-3.483e+001	70.445	4.000e+001
-55.000	90.000	-3.840e+000	-3.844e+000
267.737	-3.485e+001	77.093	4.000e+001
-54.000	90.000	-4.032e+000	-4.036e+000
267.633	-3.477e+001	84.116	4.000e+001
-53.000	90.000	-4.290e+000	-4.294e+000
267.479	-3.456e+001	91.327	4.000e+001
-52.000	90.000	-4.622e+000	-4.627e+000
267.262	-3.422e+001	98.505	4.000e+001
-51.000	90.000	-5.040e+000	-5.045e+000
266.967	-3.376e+001	105.426	3.871e+001
-50.000	90.000	-5.555e+000	-5.563e+000
266.569	-3.319e+001	111.910	3.501e+001
-49.000	90.000	-6.186e+000	-6.196e+000
266.035	-3.255e+001	117.840	3.193e+001
-48.000	90.000	-6.956e+000	-6.970e+000
265.313	-3.185e+001	123.163	2.914e+001
-47.000	90.000	-7.898e+000	-7.919e+000
264.319	-3.112e+001	127.880	2.646e+001
-46.000	90.000	-9.057e+000	-9.089e+000
262.912	-3.038e+001	132.025	2.375e+001
-45.000	90.000	-1.050e+001	-1.056e+001
260.826	-2.964e+001	135.653	2.087e+001
-44.000	90.000	-1.235e+001	-1.244e+001
257.517	-2.892e+001	138.822	1.766e+001
-43.000	90.000	-1.475e+001	-1.495e+001
251.666	-2.822e+001	141.593	1.386e+001

-42.000	90.000	-1.792e+001	-1.842e+001
239.339	-2.754e+001	144.019	9.164e+000
-41.000	90.000	-2.120e+001	-2.256e+001
207.129	-2.689e+001	146.152	6.453e+000
-40.000	90.000	-2.052e+001	-2.187e+001
152.512	-2.628e+001	148.033	2.923e+001
-39.000	90.000	-1.685e+001	-1.746e+001
125.024	-2.569e+001	149.700	1.686e+001
-38.000	90.000	-1.364e+001	-1.396e+001
114.221	-2.514e+001	151.184	1.603e+001
-37.000	90.000	-1.117e+001	-1.137e+001
108.886	-2.463e+001	152.512	1.670e+001
-36.000	90.000	-9.227e+000	-9.369e+000
105.769	-2.414e+001	153.706	1.749e+001
-35.000	90.000	-7.666e+000	-7.776e+000
103.740	-2.369e+001	154.787	1.819e+001
-34.000	90.000	-6.389e+000	-6.479e+000
102.318	-2.327e+001	155.772	1.875e+001
-33.000	90.000	-5.335e+000	-5.412e+000
101.263	-2.288e+001	156.673	1.920e+001
-32.000	90.000	-4.464e+000	-4.532e+000
100.447	-2.252e+001	157.504	1.955e+001
-31.000	90.000	-3.749e+000	-3.812e+000
99.791	-2.219e+001	158.275	1.980e+001
-30.000	90.000	-3.172e+000	-3.231e+000
99.245	-2.189e+001	158.996	1.996e+001
-29.000	90.000	-2.721e+000	-2.778e+000
98.777	-2.162e+001	159.672	2.004e+001
-28.000	90.000	-2.388e+000	-2.443e+000
98.361	-2.138e+001	160.312	2.005e+001
-27.000	90.000	-2.167e+000	-2.222e+000
97.982	-2.117e+001	160.920	1.998e+001
-26.000	90.000	-2.058e+000	-2.114e+000
97.623	-2.098e+001	161.501	1.983e+001
-25.000	90.000	-2.060e+000	-2.118e+000
97.271	-2.083e+001	162.058	1.960e+001
-24.000	90.000	-2.177e+000	-2.238e+000
96.916	-2.070e+001	162.594	1.929e+001
-23.000	90.000	-2.415e+000	-2.482e+000
96.542	-2.059e+001	163.112	1.888e+001
-22.000	90.000	-2.784e+000	-2.858e+000
96.135	-2.052e+001	163.611	1.837e+001
-21.000	90.000	-3.298e+000	-3.382e+000
95.674	-2.046e+001	164.093	1.773e+001
-20.000	90.000	-3.977e+000	-4.076e+000
95.130	-2.043e+001	164.556	1.695e+001
-19.000	90.000	-4.851e+000	-4.974e+000
94.458	-2.042e+001	164.998	1.599e+001
-18.000	90.000	-5.965e+000	-6.123e+000
93.581	-2.044e+001	165.418	1.479e+001
-17.000	90.000	-7.386e+000	-7.605e+000
92.361	-2.048e+001	165.811	1.328e+001
-16.000	90.000	-9.223e+000	-9.557e+000
90.501	-2.053e+001	166.171	1.130e+001
-15.000	90.000	-1.166e+001	-1.225e+001
87.252	-2.061e+001	166.494	8.561e+000
-14.000	90.000	-1.496e+001	-1.631e+001
80.043	-2.070e+001	166.771	4.418e+000
-13.000	90.000	-1.886e+001	-2.329e+001
53.115	-2.080e+001	166.993	4.522e+000
-12.000	90.000	-1.888e+001	-2.313e+001
322.653	-2.092e+001	167.151	1.357e+001
-11.000	90.000	-1.495e+001	-1.617e+001
296.462	-2.106e+001	167.233	8.363e+000

-10.000	90.000	-1.160e+001	-1.211e+001
289.361	-2.120e+001	167.226	1.086e+001
-9.000	90.000	-9.131e+000	-9.400e+000
286.142	-2.135e+001	167.118	1.325e+001
-8.000	90.000	-7.261e+000	-7.428e+000
284.289	-2.150e+001	166.893	1.518e+001
-7.000	90.000	-5.814e+000	-5.929e+000
283.068	-2.166e+001	166.538	1.674e+001
-6.000	90.000	-4.681e+000	-4.766e+000
282.186	-2.181e+001	166.038	1.802e+001
-5.000	90.000	-3.794e+000	-3.861e+000
281.505	-2.196e+001	165.380	1.906e+001
-4.000	90.000	-3.112e+000	-3.167e+000
280.949	-2.210e+001	164.554	1.992e+001
-3.000	90.000	-2.605e+000	-2.653e+000
280.473	-2.224e+001	163.549	2.060e+001
-2.000	90.000	-2.256e+000	-2.299e+000
280.048	-2.235e+001	162.363	2.113e+001
-1.000	90.000	-2.052e+000	-2.092e+000
279.654	-2.245e+001	160.993	2.151e+001