

Theta [deg.] [deg.]	Phi [deg.] Abs(Phi) [dBi]	Abs(Dir.) [dBi] Phase(Phi) [deg.]	Abs(Theta) [dBi] Ax.Ratio [dB]	Phase(Theta)
0.000	0.000	1.652e+01	1.652e+01	
176.673	-1.521e+01	263.240	3.174e+01	
1.000	0.000	1.645e+01	1.645e+01	
176.639	-1.451e+01	257.849	3.106e+01	
2.000	0.000	1.634e+01	1.634e+01	
176.635	-1.385e+01	253.261	3.043e+01	
3.000	0.000	1.620e+01	1.619e+01	
176.665	-1.322e+01	249.334	2.982e+01	
4.000	0.000	1.601e+01	1.601e+01	
176.730	-1.265e+01	245.947	2.924e+01	
5.000	0.000	1.579e+01	1.578e+01	
176.835	-1.212e+01	243.000	2.868e+01	
6.000	0.000	1.552e+01	1.551e+01	
176.985	-1.165e+01	240.412	2.813e+01	
7.000	0.000	1.521e+01	1.520e+01	
177.186	-1.123e+01	238.119	2.760e+01	
8.000	0.000	1.485e+01	1.484e+01	
177.446	-1.085e+01	236.070	2.707e+01	
9.000	0.000	1.445e+01	1.443e+01	
177.774	-1.052e+01	234.225	2.655e+01	
10.000	0.000	1.400e+01	1.398e+01	
178.181	-1.024e+01	232.551	2.603e+01	
11.000	0.000	1.350e+01	1.348e+01	
178.682	-1.000e+01	231.021	2.552e+01	
12.000	0.000	1.294e+01	1.292e+01	
179.297	-9.800e+00	229.614	2.501e+01	
13.000	0.000	1.233e+01	1.230e+01	
180.048	-9.640e+00	228.312	2.451e+01	
14.000	0.000	1.166e+01	1.162e+01	
180.967	-9.517e+00	227.101	2.402e+01	
15.000	0.000	1.092e+01	1.088e+01	
182.094	-9.431e+00	225.968	2.354e+01	
16.000	0.000	1.011e+01	1.006e+01	
183.483	-9.379e+00	224.905	2.309e+01	
17.000	0.000	9.232e+00	9.171e+00	
185.206	-9.360e+00	223.901	2.269e+01	
18.000	0.000	8.269e+00	8.194e+00	
187.363	-9.374e+00	222.951	2.237e+01	
19.000	0.000	7.222e+00	7.126e+00	
190.092	-9.419e+00	222.048	2.221e+01	
20.000	0.000	6.087e+00	5.966e+00	
193.588	-9.494e+00	221.186	2.234e+01	
21.000	0.000	4.872e+00	4.714e+00	
198.124	-9.599e+00	220.362	2.302e+01	
22.000	0.000	3.595e+00	3.388e+00	
204.073	-9.732e+00	219.571	2.497e+01	
23.000	0.000	2.307e+00	2.037e+00	
211.903	-9.892e+00	218.811	3.086e+01	
24.000	0.000	1.109e+00	7.652e-01	
222.067	-1.008e+01	218.077	3.468e+01	
25.000	0.000	1.608e-01	-2.489e-01	
234.664	-1.029e+01	217.369	2.134e+01	
26.000	0.000	-3.625e-01	-8.013e-01	
248.908	-1.054e+01	216.683	1.585e+01	
27.000	0.000	-3.853e-01	-7.991e-01	
263.083	-1.080e+01	216.018	1.312e+01	
28.000	0.000	4.792e-03	-3.465e-01	
275.514	-1.109e+01	215.372	1.217e+01	
29.000	0.000	6.314e-01	3.508e-01	
285.488	-1.141e+01	214.743	1.232e+01	

30.000	0.000	1.339e+00	1.120e+00
293.136	-1.174e+01	214.131	1.304e+01
31.000	0.000	2.031e+00	1.860e+00
298.925	-1.211e+01	213.534	1.400e+01
32.000	0.000	2.661e+00	2.527e+00
303.318	-1.249e+01	212.951	1.502e+01
33.000	0.000	3.212e+00	3.104e+00
306.682	-1.290e+01	212.382	1.603e+01
34.000	0.000	3.678e+00	3.591e+00
309.282	-1.333e+01	211.824	1.700e+01
35.000	0.000	4.063e+00	3.991e+00
311.310	-1.378e+01	211.278	1.791e+01
36.000	0.000	4.370e+00	4.311e+00
312.902	-1.426e+01	210.743	1.877e+01
37.000	0.000	4.608e+00	4.557e+00
314.155	-1.476e+01	210.217	1.958e+01
38.000	0.000	4.779e+00	4.736e+00
315.141	-1.528e+01	209.701	2.034e+01
39.000	0.000	4.891e+00	4.854e+00
315.913	-1.582e+01	209.194	2.105e+01
40.000	0.000	4.948e+00	4.916e+00
316.512	-1.638e+01	208.694	2.173e+01
41.000	0.000	4.953e+00	4.925e+00
316.968	-1.697e+01	208.203	2.237e+01
42.000	0.000	4.911e+00	4.886e+00
317.305	-1.757e+01	207.718	2.298e+01
43.000	0.000	4.824e+00	4.802e+00
317.543	-1.820e+01	207.240	2.357e+01
44.000	0.000	4.695e+00	4.676e+00
317.697	-1.886e+01	206.769	2.413e+01
45.000	0.000	4.527e+00	4.509e+00
317.779	-1.953e+01	206.303	2.467e+01
46.000	0.000	4.321e+00	4.306e+00
317.800	-2.023e+01	205.843	2.520e+01
47.000	0.000	4.080e+00	4.067e+00
317.768	-2.096e+01	205.389	2.571e+01
48.000	0.000	3.806e+00	3.793e+00
317.691	-2.171e+01	204.941	2.621e+01
49.000	0.000	3.498e+00	3.487e+00
317.575	-2.249e+01	204.500	2.671e+01
50.000	0.000	3.160e+00	3.150e+00
317.425	-2.330e+01	204.066	2.720e+01
51.000	0.000	2.792e+00	2.783e+00
317.246	-2.414e+01	203.642	2.768e+01
52.000	0.000	2.394e+00	2.386e+00
317.043	-2.501e+01	203.229	2.817e+01
53.000	0.000	1.969e+00	1.961e+00
316.818	-2.592e+01	202.833	2.867e+01
54.000	0.000	1.515e+00	1.508e+00
316.579	-2.687e+01	202.455	2.918e+01
55.000	0.000	1.034e+00	1.028e+00
316.326	-2.787e+01	202.104	2.970e+01
56.000	0.000	5.258e-01	5.208e-01
316.065	-2.891e+01	201.788	3.024e+01
57.000	0.000	-8.406e-03	-1.274e-02
315.797	-3.002e+01	201.519	3.081e+01
58.000	0.000	-5.688e-01	-5.725e-01
315.526	-3.119e+01	201.318	3.142e+01
59.000	0.000	-1.155e+00	-1.158e+00
315.257	-3.245e+01	201.209	3.208e+01
60.000	0.000	-1.768e+00	-1.770e+00
314.992	-3.380e+01	201.232	3.280e+01
61.000	0.000	-2.406e+00	-2.409e+00
314.735	-3.527e+01	201.449	3.360e+01

62.000	0.000	-3.071e+00	-3.073e+00
314.492	-3.690e+01	201.960	3.452e+01
63.000	0.000	-3.763e+00	-3.765e+00
314.266	-3.873e+01	202.934	3.558e+01
64.000	0.000	-4.482e+00	-4.483e+00
314.063	-4.083e+01	204.691	3.685e+01
65.000	0.000	-5.229e+00	-5.230e+00
313.889	-4.332e+01	207.894	3.844e+01
66.000	0.000	-6.005e+00	-6.005e+00
313.752	-4.640e+01	214.130	4.000e+01
67.000	0.000	-6.810e+00	-6.810e+00
313.659	-5.028e+01	227.941	4.000e+01
68.000	0.000	-7.646e+00	-7.646e+00
313.621	-5.411e+01	261.589	4.000e+01
69.000	0.000	-8.514e+00	-8.514e+00
313.649	-5.328e+01	308.123	4.000e+01
70.000	0.000	-9.415e+00	-9.416e+00
313.759	-4.983e+01	331.587	4.000e+01
71.000	0.000	-1.035e+01	-1.035e+01
313.968	-4.703e+01	341.243	4.000e+01
72.000	0.000	-1.133e+01	-1.133e+01
314.299	-4.496e+01	345.771	3.928e+01
73.000	0.000	-1.234e+01	-1.234e+01
314.767	-4.337e+01	348.029	3.625e+01
74.000	0.000	-1.339e+01	-1.340e+01
315.434	-4.212e+01	349.169	3.384e+01
75.000	0.000	-1.449e+01	-1.450e+01
316.332	-4.110e+01	349.637	3.183e+01
76.000	0.000	-1.563e+01	-1.564e+01
317.519	-4.026e+01	349.681	3.012e+01
77.000	0.000	-1.681e+01	-1.684e+01
319.072	-3.956e+01	349.437	2.868e+01
78.000	0.000	-1.804e+01	-1.808e+01
321.086	-3.896e+01	348.989	2.754e+01
79.000	0.000	-1.930e+01	-1.936e+01
323.686	-3.844e+01	348.391	2.676e+01
80.000	0.000	-2.059e+01	-2.067e+01
327.021	-3.800e+01	347.679	2.652e+01
81.000	0.000	-2.187e+01	-2.199e+01
331.266	-3.761e+01	346.878	2.724e+01
82.000	0.000	-2.311e+01	-2.328e+01
336.592	-3.727e+01	346.007	3.005e+01
83.000	0.000	-2.425e+01	-2.449e+01
343.107	-3.697e+01	345.080	4.000e+01
84.000	0.000	-2.522e+01	-2.554e+01
350.755	-3.671e+01	344.109	3.053e+01
85.000	0.000	-2.595e+01	-2.636e+01
359.206	-3.648e+01	343.101	2.201e+01
86.000	0.000	-2.641e+01	-2.688e+01
7.841	-3.627e+01	342.064	1.741e+01
87.000	0.000	-2.660e+01	-2.712e+01
15.921	-3.609e+01	341.005	1.455e+01
88.000	0.000	-2.659e+01	-2.713e+01
22.854	-3.593e+01	339.927	1.277e+01
89.000	0.000	-2.644e+01	-2.698e+01
28.339	-3.579e+01	338.837	1.169e+01
90.000	0.000	-2.623e+01	-2.675e+01
32.337	-3.567e+01	337.737	1.109e+01
91.000	0.000	-2.598e+01	-2.649e+01
34.962	-3.556e+01	336.632	1.079e+01
92.000	0.000	-2.574e+01	-2.623e+01
36.375	-3.547e+01	335.524	1.069e+01
93.000	0.000	-2.551e+01	-2.598e+01
36.738	-3.540e+01	334.417	1.070e+01

94.000	0.000	-2.530e+01	-2.575e+01
36.190	-3.534e+01	333.314	1.081e+01
95.000	0.000	-2.510e+01	-2.554e+01
34.847	-3.529e+01	332.217	1.099e+01
96.000	0.000	-2.492e+01	-2.534e+01
32.808	-3.525e+01	331.128	1.123e+01
97.000	0.000	-2.473e+01	-2.514e+01
30.159	-3.523e+01	330.050	1.156e+01
98.000	0.000	-2.454e+01	-2.493e+01
26.984	-3.522e+01	328.985	1.196e+01
99.000	0.000	-2.433e+01	-2.470e+01
23.369	-3.522e+01	327.936	1.247e+01
100.000	0.000	-2.409e+01	-2.444e+01
19.404	-3.524e+01	326.904	1.309e+01
101.000	0.000	-2.382e+01	-2.414e+01
15.186	-3.527e+01	325.893	1.382e+01
102.000	0.000	-2.351e+01	-2.381e+01
10.812	-3.531e+01	324.903	1.467e+01
103.000	0.000	-2.317e+01	-2.344e+01
6.375	-3.536e+01	323.937	1.565e+01
104.000	0.000	-2.279e+01	-2.303e+01
1.963	-3.543e+01	322.998	1.673e+01
105.000	0.000	-2.237e+01	-2.259e+01
357.647	-3.551e+01	322.088	1.793e+01
106.000	0.000	-2.193e+01	-2.212e+01
353.482	-3.561e+01	321.209	1.922e+01
107.000	0.000	-2.147e+01	-2.163e+01
349.507	-3.572e+01	320.364	2.059e+01
108.000	0.000	-2.099e+01	-2.113e+01
345.727	-3.585e+01	319.560	2.206e+01
109.000	0.000	-2.051e+01	-2.064e+01
342.186	-3.599e+01	318.791	2.359e+01
110.000	0.000	-2.003e+01	-2.014e+01
338.865	-3.615e+01	318.064	2.519e+01
111.000	0.000	-1.956e+01	-1.966e+01
335.757	-3.633e+01	317.384	2.687e+01
112.000	0.000	-1.911e+01	-1.919e+01
332.847	-3.654e+01	316.754	2.864e+01
113.000	0.000	-1.867e+01	-1.873e+01
330.120	-3.676e+01	316.177	3.051e+01
114.000	0.000	-1.825e+01	-1.831e+01
327.559	-3.700e+01	315.660	3.252e+01
115.000	0.000	-1.785e+01	-1.790e+01
325.144	-3.727e+01	315.207	3.472e+01
116.000	0.000	-1.748e+01	-1.753e+01
322.859	-3.756e+01	314.825	3.721e+01
117.000	0.000	-1.714e+01	-1.718e+01
320.686	-3.789e+01	314.521	4.000e+01
118.000	0.000	-1.683e+01	-1.687e+01
318.609	-3.824e+01	314.305	4.000e+01
119.000	0.000	-1.656e+01	-1.658e+01
316.612	-3.862e+01	314.186	4.000e+01
120.000	0.000	-1.631e+01	-1.634e+01
314.680	-3.904e+01	314.179	4.000e+01
121.000	0.000	-1.610e+01	-1.612e+01
312.798	-3.950e+01	314.298	4.000e+01
122.000	0.000	-1.593e+01	-1.595e+01
310.951	-4.001e+01	314.565	4.000e+01
123.000	0.000	-1.579e+01	-1.581e+01
309.124	-4.056e+01	315.005	4.000e+01
124.000	0.000	-1.570e+01	-1.571e+01
307.302	-4.116e+01	315.652	4.000e+01
125.000	0.000	-1.564e+01	-1.565e+01
305.469	-4.183e+01	316.550	4.000e+01

126.000	0.000	-1.563e+01	-1.563e+01
303.607	-4.256e+01	317.760	3.918e+01
127.000	0.000	-1.565e+01	-1.566e+01
301.696	-4.337e+01	319.365	3.808e+01
128.000	0.000	-1.573e+01	-1.573e+01
299.705	-4.427e+01	321.487	3.716e+01
129.000	0.000	-1.584e+01	-1.585e+01
297.623	-4.527e+01	324.290	3.639e+01
130.000	0.000	-1.601e+01	-1.602e+01
295.414	-4.638e+01	328.031	3.573e+01
131.000	0.000	-1.623e+01	-1.623e+01
293.040	-4.759e+01	333.084	3.520e+01
132.000	0.000	-1.649e+01	-1.649e+01
290.459	-4.891e+01	340.002	3.479e+01
133.000	0.000	-1.680e+01	-1.681e+01
287.619	-5.024e+01	349.524	3.452e+01
134.000	0.000	-1.717e+01	-1.717e+01
284.458	-5.143e+01	2.366	3.446e+01
135.000	0.000	-1.757e+01	-1.757e+01
280.904	-5.217e+01	18.443	3.467e+01
136.000	0.000	-1.801e+01	-1.802e+01
276.873	-5.217e+01	35.868	3.531e+01
137.000	0.000	-1.848e+01	-1.849e+01
272.274	-5.146e+01	51.718	3.671e+01
138.000	0.000	-1.896e+01	-1.896e+01
267.022	-5.034e+01	64.335	3.965e+01
139.000	0.000	-1.942e+01	-1.943e+01
261.049	-4.910e+01	73.794	4.000e+01
140.000	0.000	-1.983e+01	-1.984e+01
254.343	-4.790e+01	80.843	4.000e+01
141.000	0.000	-2.015e+01	-2.016e+01
246.978	-4.681e+01	86.200	3.632e+01
142.000	0.000	-2.034e+01	-2.035e+01
239.149	-4.584e+01	90.401	3.121e+01
143.000	0.000	-2.038e+01	-2.039e+01
231.164	-4.498e+01	93.805	2.799e+01
144.000	0.000	-2.026e+01	-2.028e+01
223.389	-4.423e+01	96.655	2.589e+01
145.000	0.000	-2.001e+01	-2.003e+01
216.165	-4.358e+01	99.118	2.457e+01
146.000	0.000	-1.965e+01	-1.967e+01
209.733	-4.301e+01	101.312	2.380e+01
147.000	0.000	-1.924e+01	-1.926e+01
204.216	-4.253e+01	103.321	2.343e+01
148.000	0.000	-1.881e+01	-1.883e+01
199.634	-4.212e+01	105.208	2.331e+01
149.000	0.000	-1.839e+01	-1.841e+01
195.946	-4.177e+01	107.022	2.337e+01
150.000	0.000	-1.799e+01	-1.801e+01
193.082	-4.149e+01	108.802	2.352e+01
151.000	0.000	-1.764e+01	-1.766e+01
190.968	-4.127e+01	110.579	2.373e+01
152.000	0.000	-1.735e+01	-1.737e+01
189.537	-4.110e+01	112.380	2.395e+01
153.000	0.000	-1.712e+01	-1.714e+01
188.734	-4.098e+01	114.228	2.417e+01
154.000	0.000	-1.695e+01	-1.697e+01
188.522	-4.092e+01	116.143	2.437e+01
155.000	0.000	-1.684e+01	-1.686e+01
188.881	-4.089e+01	118.143	2.454e+01
156.000	0.000	-1.680e+01	-1.682e+01
189.804	-4.092e+01	120.243	2.467e+01
157.000	0.000	-1.682e+01	-1.684e+01
191.301	-4.098e+01	122.458	2.475e+01

158.000	0.000	-1.690e+01	-1.691e+01
193.393	-4.108e+01	124.799	2.479e+01
159.000	0.000	-1.702e+01	-1.704e+01
196.114	-4.121e+01	127.273	2.479e+01
160.000	0.000	-1.718e+01	-1.720e+01
199.503	-4.138e+01	129.887	2.474e+01
161.000	0.000	-1.737e+01	-1.739e+01
203.600	-4.157e+01	132.640	2.468e+01
162.000	0.000	-1.756e+01	-1.758e+01
208.432	-4.179e+01	135.533	2.460e+01
163.000	0.000	-1.774e+01	-1.776e+01
214.000	-4.203e+01	138.551	2.455e+01
164.000	0.000	-1.788e+01	-1.789e+01
220.256	-4.228e+01	141.679	2.457e+01
165.000	0.000	-1.794e+01	-1.795e+01
227.086	-4.255e+01	144.897	2.468e+01
166.000	0.000	-1.791e+01	-1.793e+01
234.310	-4.283e+01	148.176	2.493e+01
167.000	0.000	-1.778e+01	-1.779e+01
241.695	-4.313e+01	151.482	2.533e+01
168.000	0.000	-1.755e+01	-1.756e+01
248.996	-4.343e+01	154.777	2.589e+01
169.000	0.000	-1.723e+01	-1.724e+01
255.999	-4.374e+01	158.018	2.658e+01
170.000	0.000	-1.686e+01	-1.687e+01
262.553	-4.406e+01	161.164	2.737e+01
171.000	0.000	-1.645e+01	-1.646e+01
268.580	-4.440e+01	164.180	2.822e+01
172.000	0.000	-1.603e+01	-1.604e+01
274.062	-4.475e+01	167.013	2.911e+01
173.000	0.000	-1.563e+01	-1.563e+01
279.024	-4.513e+01	169.631	3.000e+01
174.000	0.000	-1.525e+01	-1.526e+01
283.518	-4.552e+01	171.999	3.090e+01
175.000	0.000	-1.492e+01	-1.492e+01
287.603	-4.595e+01	174.084	3.178e+01
176.000	0.000	-1.464e+01	-1.464e+01
291.343	-4.640e+01	175.858	3.265e+01
177.000	0.000	-1.442e+01	-1.442e+01
294.798	-4.689e+01	177.292	3.351e+01
178.000	0.000	-1.426e+01	-1.427e+01
298.023	-4.740e+01	178.362	3.436e+01
179.000	0.000	-1.417e+01	-1.418e+01
301.068	-4.795e+01	179.046	3.520e+01
180.000	0.000	-1.415e+01	-1.416e+01
303.979	-4.851e+01	179.333	3.605e+01
-179.000	180.000	-1.421e+01	-1.421e+01
126.795	-4.908e+01	359.205	3.690e+01
-178.000	180.000	-1.434e+01	-1.434e+01
129.556	-4.965e+01	358.680	3.774e+01
-177.000	180.000	-1.454e+01	-1.455e+01
132.300	-5.020e+01	357.797	3.860e+01
-176.000	180.000	-1.483e+01	-1.484e+01
135.067	-5.071e+01	356.629	3.944e+01
-175.000	180.000	-1.521e+01	-1.521e+01
137.896	-5.116e+01	355.292	4.000e+01
-174.000	180.000	-1.568e+01	-1.568e+01
140.836	-5.154e+01	353.944	4.000e+01
-173.000	180.000	-1.625e+01	-1.625e+01
143.939	-5.181e+01	352.772	4.000e+01
-172.000	180.000	-1.692e+01	-1.692e+01
147.275	-5.199e+01	351.966	4.000e+01
-171.000	180.000	-1.771e+01	-1.771e+01
150.932	-5.206e+01	351.691	4.000e+01

-170.000	180.000	-1.862e+01	-1.863e+01
155.030	-5.203e+01	352.055	4.000e+01
-169.000	180.000	-1.968e+01	-1.968e+01
159.740	-5.190e+01	353.109	4.000e+01
-168.000	180.000	-2.089e+01	-2.089e+01
165.312	-5.169e+01	354.839	4.000e+01
-167.000	180.000	-2.227e+01	-2.227e+01
172.127	-5.139e+01	357.168	4.000e+01
-166.000	180.000	-2.380e+01	-2.381e+01
180.761	-5.102e+01	359.976	4.000e+01
-165.000	180.000	-2.545e+01	-2.546e+01
192.062	-5.059e+01	3.123	4.000e+01
-164.000	180.000	-2.706e+01	-2.708e+01
207.049	-5.011e+01	6.465	3.215e+01
-163.000	180.000	-2.829e+01	-2.832e+01
226.157	-4.960e+01	9.874	2.588e+01
-162.000	180.000	-2.874e+01	-2.878e+01
247.665	-4.907e+01	13.247	2.211e+01
-161.000	180.000	-2.836e+01	-2.840e+01
267.910	-4.853e+01	16.511	2.060e+01
-160.000	180.000	-2.751e+01	-2.755e+01
284.549	-4.800e+01	19.611	2.048e+01
-159.000	180.000	-2.657e+01	-2.661e+01
297.666	-4.750e+01	22.530	2.093e+01
-158.000	180.000	-2.573e+01	-2.576e+01
308.287	-4.702e+01	25.262	2.149e+01
-157.000	180.000	-2.504e+01	-2.507e+01
317.373	-4.659e+01	27.811	2.204e+01
-156.000	180.000	-2.453e+01	-2.456e+01
325.632	-4.620e+01	30.191	2.253e+01
-155.000	180.000	-2.418e+01	-2.421e+01
333.571	-4.586e+01	32.422	2.302e+01
-154.000	180.000	-2.396e+01	-2.399e+01
341.573	-4.557e+01	34.525	2.357e+01
-153.000	180.000	-2.384e+01	-2.387e+01
349.947	-4.535e+01	36.523	2.428e+01
-152.000	180.000	-2.379e+01	-2.383e+01
358.944	-4.518e+01	38.443	2.532e+01
-151.000	180.000	-2.376e+01	-2.379e+01
8.741	-4.507e+01	40.312	2.694e+01
-150.000	180.000	-2.368e+01	-2.372e+01
19.386	-4.503e+01	42.155	2.961e+01
-149.000	180.000	-2.349e+01	-2.352e+01
30.752	-4.505e+01	44.006	3.438e+01
-148.000	180.000	-2.314e+01	-2.317e+01
42.495	-4.514e+01	45.899	4.000e+01
-147.000	180.000	-2.259e+01	-2.262e+01
54.128	-4.530e+01	47.873	4.000e+01
-146.000	180.000	-2.188e+01	-2.189e+01
65.164	-4.554e+01	49.979	3.532e+01
-145.000	180.000	-2.103e+01	-2.104e+01
75.265	-4.586e+01	52.275	3.301e+01
-144.000	180.000	-2.011e+01	-2.012e+01
84.293	-4.627e+01	54.841	3.233e+01
-143.000	180.000	-1.917e+01	-1.918e+01
92.264	-4.677e+01	57.780	3.254e+01
-142.000	180.000	-1.824e+01	-1.825e+01
99.287	-4.737e+01	61.235	3.333e+01
-141.000	180.000	-1.735e+01	-1.736e+01
105.500	-4.808e+01	65.406	3.455e+01
-140.000	180.000	-1.651e+01	-1.651e+01
111.044	-4.890e+01	70.586	3.615e+01
-139.000	180.000	-1.572e+01	-1.572e+01
116.035	-4.983e+01	77.189	3.816e+01

-138.000	180.000	-1.499e+01	-1.499e+01
120.578	-5.082e+01	85.787	4.000e+01
-137.000	180.000	-1.432e+01	-1.432e+01
124.757	-5.178e+01	97.046	4.000e+01
-136.000	180.000	-1.370e+01	-1.370e+01
128.640	-5.249e+01	111.371	4.000e+01
-135.000	180.000	-1.314e+01	-1.314e+01
132.280	-5.269e+01	128.094	4.000e+01
-134.000	180.000	-1.262e+01	-1.262e+01
135.720	-5.220e+01	145.069	4.000e+01
-133.000	180.000	-1.216e+01	-1.216e+01
138.994	-5.114e+01	159.976	4.000e+01
-132.000	180.000	-1.173e+01	-1.173e+01
142.132	-4.979e+01	171.880	4.000e+01
-131.000	180.000	-1.135e+01	-1.135e+01
145.155	-4.838e+01	181.063	4.000e+01
-130.000	180.000	-1.101e+01	-1.101e+01
148.082	-4.701e+01	188.180	3.982e+01
-129.000	180.000	-1.070e+01	-1.070e+01
150.927	-4.574e+01	193.825	3.838e+01
-128.000	180.000	-1.043e+01	-1.043e+01
153.704	-4.457e+01	198.433	3.719e+01
-127.000	180.000	-1.019e+01	-1.019e+01
156.426	-4.350e+01	202.310	3.619e+01
-126.000	180.000	-9.978e+00	-9.981e+00
159.091	-4.253e+01	205.653	3.533e+01
-125.000	180.000	-9.795e+00	-9.798e+00
161.711	-4.163e+01	208.611	3.457e+01
-124.000	180.000	-9.637e+00	-9.640e+00
164.293	-4.081e+01	211.283	3.389e+01
-123.000	180.000	-9.504e+00	-9.508e+00
166.839	-4.005e+01	213.739	3.328e+01
-122.000	180.000	-9.393e+00	-9.398e+00
169.355	-3.935e+01	216.033	3.272e+01
-121.000	180.000	-9.304e+00	-9.309e+00
171.842	-3.870e+01	218.201	3.221e+01
-120.000	180.000	-9.235e+00	-9.241e+00
174.302	-3.810e+01	220.271	3.173e+01
-119.000	180.000	-9.185e+00	-9.191e+00
176.738	-3.754e+01	222.265	3.128e+01
-118.000	180.000	-9.152e+00	-9.159e+00
179.150	-3.702e+01	224.198	3.087e+01
-117.000	180.000	-9.137e+00	-9.145e+00
181.538	-3.653e+01	226.082	3.047e+01
-116.000	180.000	-9.137e+00	-9.145e+00
183.903	-3.607e+01	227.927	3.009e+01
-115.000	180.000	-9.151e+00	-9.161e+00
186.245	-3.564e+01	229.739	2.974e+01
-114.000	180.000	-9.180e+00	-9.191e+00
188.564	-3.524e+01	231.522	2.939e+01
-113.000	180.000	-9.222e+00	-9.234e+00
190.860	-3.486e+01	233.280	2.906e+01
-112.000	180.000	-9.276e+00	-9.289e+00
193.130	-3.450e+01	235.016	2.873e+01
-111.000	180.000	-9.342e+00	-9.357e+00
195.375	-3.416e+01	236.730	2.842e+01
-110.000	180.000	-9.420e+00	-9.436e+00
197.593	-3.384e+01	238.424	2.811e+01
-109.000	180.000	-9.508e+00	-9.525e+00
199.783	-3.353e+01	240.096	2.781e+01
-108.000	180.000	-9.607e+00	-9.626e+00
201.942	-3.324e+01	241.746	2.751e+01
-107.000	180.000	-9.715e+00	-9.736e+00
204.076	-3.296e+01	243.371	2.722e+01

-106.000	180.000	-9.833e+00	-9.856e+00
206.170	-3.269e+01	244.974	2.693e+01
-105.000	180.000	-9.960e+00	-9.985e+00
208.227	-3.244e+01	246.550	2.663e+01
-104.000	180.000	-1.010e+01	-1.012e+01
210.245	-3.219e+01	248.098	2.634e+01
-103.000	180.000	-1.024e+01	-1.027e+01
212.222	-3.195e+01	249.614	2.605e+01
-102.000	180.000	-1.040e+01	-1.043e+01
214.153	-3.171e+01	251.096	2.575e+01
-101.000	180.000	-1.056e+01	-1.059e+01
216.035	-3.148e+01	252.540	2.545e+01
-100.000	180.000	-1.073e+01	-1.077e+01
217.863	-3.126e+01	253.945	2.514e+01
-99.000	180.000	-1.091e+01	-1.095e+01
219.632	-3.104e+01	255.305	2.483e+01
-98.000	180.000	-1.110e+01	-1.114e+01
221.337	-3.082e+01	256.619	2.451e+01
-97.000	180.000	-1.129e+01	-1.135e+01
222.971	-3.061e+01	257.883	2.418e+01
-96.000	180.000	-1.150e+01	-1.156e+01
224.526	-3.039e+01	259.092	2.383e+01
-95.000	180.000	-1.172e+01	-1.178e+01
225.993	-3.018e+01	260.244	2.348e+01
-94.000	180.000	-1.194e+01	-1.201e+01
227.362	-2.996e+01	261.336	2.310e+01
-93.000	180.000	-1.218e+01	-1.226e+01
228.621	-2.975e+01	262.363	2.270e+01
-92.000	180.000	-1.243e+01	-1.252e+01
229.754	-2.953e+01	263.322	2.228e+01
-91.000	180.000	-1.269e+01	-1.279e+01
230.745	-2.931e+01	264.211	2.183e+01
-90.000	180.000	-1.296e+01	-1.307e+01
231.574	-2.909e+01	265.025	2.135e+01
-89.000	180.000	-1.325e+01	-1.337e+01
232.217	-2.887e+01	265.764	2.082e+01
-88.000	180.000	-1.354e+01	-1.368e+01
232.645	-2.864e+01	266.423	2.025e+01
-87.000	180.000	-1.385e+01	-1.401e+01
232.824	-2.841e+01	267.000	1.963e+01
-86.000	180.000	-1.418e+01	-1.435e+01
232.713	-2.818e+01	267.494	1.895e+01
-85.000	180.000	-1.451e+01	-1.471e+01
232.263	-2.794e+01	267.902	1.819e+01
-84.000	180.000	-1.485e+01	-1.508e+01
231.417	-2.770e+01	268.223	1.737e+01
-83.000	180.000	-1.520e+01	-1.546e+01
230.109	-2.745e+01	268.457	1.647e+01
-82.000	180.000	-1.554e+01	-1.584e+01
228.263	-2.720e+01	268.601	1.551e+01
-81.000	180.000	-1.586e+01	-1.622e+01
225.801	-2.694e+01	268.657	1.447e+01
-80.000	180.000	-1.616e+01	-1.657e+01
222.647	-2.668e+01	268.624	1.339e+01
-79.000	180.000	-1.641e+01	-1.687e+01
218.745	-2.641e+01	268.503	1.230e+01
-78.000	180.000	-1.658e+01	-1.709e+01
214.081	-2.613e+01	268.295	1.125e+01
-77.000	180.000	-1.665e+01	-1.721e+01
208.711	-2.585e+01	268.001	1.029e+01
-76.000	180.000	-1.660e+01	-1.719e+01
202.786	-2.556e+01	267.624	9.492e+00
-75.000	180.000	-1.639e+01	-1.700e+01
196.549	-2.526e+01	267.165	8.932e+00

-74.000	180.000	-1.604e+01	-1.664e+01
190.301	-2.496e+01	266.627	8.649e+00
-73.000	180.000	-1.555e+01	-1.612e+01
184.332	-2.465e+01	266.013	8.644e+00
-72.000	180.000	-1.494e+01	-1.548e+01
178.891	-2.433e+01	265.329	8.877e+00
-71.000	180.000	-1.425e+01	-1.473e+01
174.066	-2.401e+01	264.575	9.276e+00
-70.000	180.000	-1.349e+01	-1.392e+01
169.915	-2.368e+01	263.756	9.777e+00
-69.000	180.000	-1.269e+01	-1.308e+01
166.413	-2.334e+01	262.878	1.032e+01
-68.000	180.000	-1.188e+01	-1.223e+01
163.500	-2.300e+01	261.944	1.088e+01
-67.000	180.000	-1.106e+01	-1.138e+01
161.100	-2.265e+01	260.959	1.142e+01
-66.000	180.000	-1.026e+01	-1.054e+01
159.134	-2.229e+01	259.929	1.193e+01
-65.000	180.000	-9.468e+00	-9.721e+00
157.530	-2.193e+01	258.857	1.240e+01
-64.000	180.000	-8.700e+00	-8.931e+00
156.227	-2.156e+01	257.750	1.282e+01
-63.000	180.000	-7.957e+00	-8.169e+00
155.168	-2.118e+01	256.611	1.321e+01
-62.000	180.000	-7.242e+00	-7.438e+00
154.309	-2.081e+01	255.445	1.355e+01
-61.000	180.000	-6.556e+00	-6.738e+00
153.611	-2.043e+01	254.256	1.385e+01
-60.000	180.000	-5.899e+00	-6.070e+00
153.041	-2.004e+01	253.050	1.411e+01
-59.000	180.000	-5.273e+00	-5.435e+00
152.572	-1.965e+01	251.830	1.434e+01
-58.000	180.000	-4.679e+00	-4.833e+00
152.182	-1.926e+01	250.599	1.453e+01
-57.000	180.000	-4.116e+00	-4.264e+00
151.850	-1.887e+01	249.362	1.469e+01
-56.000	180.000	-3.586e+00	-3.729e+00
151.558	-1.848e+01	248.121	1.481e+01
-55.000	180.000	-3.089e+00	-3.228e+00
151.292	-1.809e+01	246.879	1.490e+01
-54.000	180.000	-2.625e+00	-2.763e+00
151.038	-1.769e+01	245.639	1.496e+01
-53.000	180.000	-2.197e+00	-2.333e+00
150.783	-1.730e+01	244.403	1.499e+01
-52.000	180.000	-1.806e+00	-1.942e+00
150.520	-1.692e+01	243.174	1.499e+01
-51.000	180.000	-1.451e+00	-1.588e+00
150.227	-1.653e+01	241.951	1.495e+01
-50.000	180.000	-1.136e+00	-1.275e+00
149.895	-1.615e+01	240.737	1.488e+01
-49.000	180.000	-8.608e-01	-1.003e+00
149.511	-1.578e+01	239.533	1.478e+01
-48.000	180.000	-6.289e-01	-7.757e-01
149.060	-1.541e+01	238.339	1.464e+01
-47.000	180.000	-4.424e-01	-5.954e-01
148.525	-1.505e+01	237.155	1.446e+01
-46.000	180.000	-3.042e-01	-4.652e-01
147.885	-1.469e+01	235.983	1.423e+01
-45.000	180.000	-2.176e-01	-3.886e-01
147.117	-1.435e+01	234.821	1.397e+01
-44.000	180.000	-1.864e-01	-3.701e-01
146.188	-1.401e+01	233.670	1.365e+01
-43.000	180.000	-2.149e-01	-4.146e-01
145.060	-1.369e+01	232.528	1.328e+01

-42.000	180.000	-3.081e-01	-5.279e-01
143.680	-1.337e+01	231.396	1.285e+01
-41.000	180.000	-4.712e-01	-7.166e-01
141.980	-1.307e+01	230.271	1.236e+01
-40.000	180.000	-7.097e-01	-9.879e-01
139.865	-1.278e+01	229.154	1.179e+01
-39.000	180.000	-1.030e+00	-1.350e+00
137.203	-1.251e+01	228.043	1.116e+01
-38.000	180.000	-1.432e+00	-1.808e+00
133.810	-1.225e+01	226.935	1.045e+01
-37.000	180.000	-1.915e+00	-2.363e+00
129.421	-1.200e+01	225.829	9.708e+00
-36.000	180.000	-2.464e+00	-3.005e+00
123.665	-1.178e+01	224.724	8.982e+00
-35.000	180.000	-3.039e+00	-3.696e+00
116.051	-1.157e+01	223.616	8.435e+00
-34.000	180.000	-3.558e+00	-4.342e+00
106.038	-1.138e+01	222.503	8.388e+00
-33.000	180.000	-3.880e+00	-4.769e+00
93.341	-1.120e+01	221.383	9.330e+00
-32.000	180.000	-3.831e+00	-4.743e+00
78.543	-1.105e+01	220.251	1.173e+01
-31.000	180.000	-3.298e+00	-4.121e+00
63.394	-1.093e+01	219.105	1.595e+01
-30.000	180.000	-2.321e+00	-2.982e+00
49.878	-1.082e+01	217.940	2.280e+01
-29.000	180.000	-1.056e+00	-1.550e+00
38.968	-1.074e+01	216.752	3.843e+01
-28.000	180.000	3.297e-01	-2.823e-02
30.584	-1.069e+01	215.536	3.265e+01
-27.000	180.000	1.724e+00	1.466e+00
24.220	-1.066e+01	214.284	2.778e+01
-26.000	180.000	3.068e+00	2.880e+00
19.352	-1.066e+01	212.990	2.645e+01
-25.000	180.000	4.335e+00	4.197e+00
15.572	-1.069e+01	211.647	2.630e+01
-24.000	180.000	5.518e+00	5.414e+00
12.584	-1.076e+01	210.244	2.672e+01
-23.000	180.000	6.615e+00	6.537e+00
10.182	-1.085e+01	208.770	2.746e+01
-22.000	180.000	7.632e+00	7.572e+00
8.221	-1.098e+01	207.212	2.841e+01
-21.000	180.000	8.573e+00	8.527e+00
6.596	-1.115e+01	205.554	2.953e+01
-20.000	180.000	9.444e+00	9.408e+00
5.233	-1.136e+01	203.776	3.078e+01
-19.000	180.000	1.025e+01	1.022e+01
4.076	-1.160e+01	201.854	3.218e+01
-18.000	180.000	1.099e+01	1.097e+01
3.086	-1.190e+01	199.758	3.375e+01
-17.000	180.000	1.168e+01	1.166e+01
2.231	-1.223e+01	197.454	3.554e+01
-16.000	180.000	1.231e+01	1.230e+01
1.486	-1.262e+01	194.894	3.764e+01
-15.000	180.000	1.289e+01	1.288e+01
0.833	-1.305e+01	192.023	4.000e+01
-14.000	180.000	1.343e+01	1.342e+01
0.258	-1.353e+01	188.769	4.000e+01
-13.000	180.000	1.391e+01	1.390e+01
359.749	-1.407e+01	185.042	4.000e+01
-12.000	180.000	1.435e+01	1.435e+01
359.296	-1.464e+01	180.733	4.000e+01
-11.000	180.000	1.475e+01	1.475e+01
358.893	-1.525e+01	175.709	4.000e+01

-10.000	180.000	1.511e+01	1.510e+01
358.534	-1.588e+01	169.822	4.000e+01
-9.000	180.000	1.542e+01	1.542e+01
358.213	-1.650e+01	162.926	4.000e+01
-8.000	180.000	1.570e+01	1.570e+01
357.928	-1.706e+01	154.919	4.000e+01
-7.000	180.000	1.593e+01	1.593e+01
357.674	-1.750e+01	145.819	3.899e+01
-6.000	180.000	1.613e+01	1.613e+01
357.450	-1.776e+01	135.841	3.745e+01
-5.000	180.000	1.629e+01	1.629e+01
357.254	-1.779e+01	125.428	3.617e+01
-4.000	180.000	1.641e+01	1.641e+01
357.085	-1.757e+01	115.162	3.507e+01
-3.000	180.000	1.649e+01	1.649e+01
356.942	-1.715e+01	105.579	3.411e+01
-2.000	180.000	1.654e+01	1.654e+01
356.826	-1.657e+01	97.016	3.325e+01
-1.000	180.000	1.655e+01	1.655e+01
356.736	-1.591e+01	89.586	3.246e+01