

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	1.655e+01	-1.922e+01	
71.311	1.655e+01	341.186	3.577e+01	
1.000	0.000	1.652e+01	-1.864e+01	
77.250	1.652e+01	341.170	3.521e+01	
2.000	0.000	1.645e+01	-1.807e+01	
82.418	1.645e+01	341.159	3.469e+01	
3.000	0.000	1.634e+01	-1.752e+01	
86.889	1.634e+01	341.154	3.419e+01	
4.000	0.000	1.619e+01	-1.701e+01	
90.755	1.618e+01	341.154	3.372e+01	
5.000	0.000	1.599e+01	-1.656e+01	
94.108	1.599e+01	341.161	3.326e+01	
6.000	0.000	1.575e+01	-1.616e+01	
97.032	1.575e+01	341.172	3.283e+01	
7.000	0.000	1.547e+01	-1.582e+01	
99.598	1.547e+01	341.189	3.241e+01	
8.000	0.000	1.514e+01	-1.555e+01	
101.870	1.514e+01	341.211	3.200e+01	
9.000	0.000	1.477e+01	-1.535e+01	
103.897	1.476e+01	341.239	3.161e+01	
10.000	0.000	1.434e+01	-1.522e+01	
105.724	1.434e+01	341.272	3.123e+01	
11.000	0.000	1.386e+01	-1.515e+01	
107.391	1.385e+01	341.310	3.086e+01	
12.000	0.000	1.332e+01	-1.515e+01	
108.931	1.332e+01	341.354	3.049e+01	
13.000	0.000	1.272e+01	-1.522e+01	
110.374	1.271e+01	341.404	3.013e+01	
14.000	0.000	1.205e+01	-1.537e+01	
111.748	1.205e+01	341.460	2.978e+01	
15.000	0.000	1.131e+01	-1.560e+01	
113.083	1.130e+01	341.523	2.942e+01	
16.000	0.000	1.048e+01	-1.590e+01	
114.408	1.047e+01	341.593	2.907e+01	
17.000	0.000	9.554e+00	-1.629e+01	
115.758	9.543e+00	341.672	2.872e+01	
18.000	0.000	8.513e+00	-1.678e+01	
117.173	8.500e+00	341.762	2.836e+01	
19.000	0.000	7.334e+00	-1.736e+01	
118.705	7.319e+00	341.866	2.800e+01	
20.000	0.000	5.983e+00	-1.806e+01	
120.422	5.966e+00	341.989	2.761e+01	
21.000	0.000	4.412e+00	-1.889e+01	
122.422	4.392e+00	342.138	2.720e+01	
22.000	0.000	2.540e+00	-1.987e+01	
124.853	2.515e+00	342.330	2.673e+01	
23.000	0.000	2.265e-01	-2.102e+01	
127.944	1.938e-01	342.599	2.616e+01	
24.000	0.000	-2.805e+00	-2.239e+01	
132.080	-2.853e+00	343.030	2.538e+01	
25.000	0.000	-7.246e+00	-2.400e+01	
137.936	-7.338e+00	343.929	2.398e+01	
26.000	0.000	-1.586e+01	-2.587e+01	
146.745	-1.632e+01	347.725	1.928e+01	
27.000	0.000	-1.849e+01	-2.788e+01	
160.655	-1.902e+01	154.143	2.882e+01	
28.000	0.000	-8.857e+00	-2.948e+01	
182.039	-8.895e+00	159.658	2.903e+01	
29.000	0.000	-4.553e+00	-2.963e+01	
208.423	-4.567e+00	160.702	2.769e+01	

30.000	0.000	-1.854e+00	-2.823e+01
230.796	-1.864e+00	161.185	2.693e+01
31.000	0.000	6.253e-02	-2.628e+01
245.493	5.245e-02	161.488	2.638e+01
32.000	0.000	1.512e+00	-2.443e+01
254.640	1.501e+00	161.711	2.595e+01
33.000	0.000	2.648e+00	-2.283e+01
260.515	2.635e+00	161.894	2.557e+01
34.000	0.000	3.558e+00	-2.147e+01
264.458	3.544e+00	162.053	2.522e+01
35.000	0.000	4.296e+00	-2.032e+01
267.202	4.281e+00	162.197	2.490e+01
36.000	0.000	4.899e+00	-1.934e+01
269.158	4.882e+00	162.332	2.460e+01
37.000	0.000	5.391e+00	-1.849e+01
270.570	5.374e+00	162.461	2.431e+01
38.000	0.000	5.792e+00	-1.777e+01
271.590	5.773e+00	162.586	2.403e+01
39.000	0.000	6.116e+00	-1.715e+01
272.316	6.095e+00	162.708	2.376e+01
40.000	0.000	6.373e+00	-1.661e+01
272.815	6.351e+00	162.826	2.350e+01
41.000	0.000	6.571e+00	-1.614e+01
273.134	6.548e+00	162.944	2.325e+01
42.000	0.000	6.718e+00	-1.574e+01
273.308	6.694e+00	163.061	2.299e+01
43.000	0.000	6.820e+00	-1.540e+01
273.360	6.794e+00	163.176	2.275e+01
44.000	0.000	6.882e+00	-1.510e+01
273.311	6.854e+00	163.289	2.251e+01
45.000	0.000	6.907e+00	-1.486e+01
273.175	6.878e+00	163.400	2.227e+01
46.000	0.000	6.899e+00	-1.465e+01
272.964	6.869e+00	163.509	2.203e+01
47.000	0.000	6.862e+00	-1.448e+01
272.689	6.830e+00	163.615	2.181e+01
48.000	0.000	6.798e+00	-1.434e+01
272.358	6.764e+00	163.717	2.158e+01
49.000	0.000	6.709e+00	-1.423e+01
271.976	6.674e+00	163.815	2.136e+01
50.000	0.000	6.598e+00	-1.415e+01
271.552	6.561e+00	163.908	2.114e+01
51.000	0.000	6.466e+00	-1.410e+01
271.090	6.428e+00	163.994	2.092e+01
52.000	0.000	6.315e+00	-1.406e+01
270.595	6.275e+00	164.073	2.071e+01
53.000	0.000	6.148e+00	-1.405e+01
270.072	6.106e+00	164.141	2.050e+01
54.000	0.000	5.965e+00	-1.405e+01
269.526	5.921e+00	164.202	2.029e+01
55.000	0.000	5.767e+00	-1.407e+01
268.960	5.722e+00	164.252	2.009e+01
56.000	0.000	5.556e+00	-1.410e+01
268.379	5.509e+00	164.288	1.988e+01
57.000	0.000	5.333e+00	-1.415e+01
267.786	5.284e+00	164.310	1.968e+01
58.000	0.000	5.099e+00	-1.421e+01
267.186	5.048e+00	164.316	1.948e+01
59.000	0.000	4.855e+00	-1.428e+01
266.582	4.802e+00	164.303	1.928e+01
60.000	0.000	4.602e+00	-1.435e+01
265.977	4.547e+00	164.270	1.909e+01
61.000	0.000	4.341e+00	-1.444e+01
265.375	4.283e+00	164.216	1.889e+01

62.000	0.000	4.072e+00	-1.453e+01
264.780	4.011e+00	164.137	1.869e+01
63.000	0.000	3.795e+00	-1.462e+01
264.194	3.732e+00	164.031	1.849e+01
64.000	0.000	3.513e+00	-1.472e+01
263.620	3.447e+00	163.897	1.830e+01
65.000	0.000	3.225e+00	-1.482e+01
263.062	3.156e+00	163.732	1.810e+01
66.000	0.000	2.931e+00	-1.493e+01
262.521	2.859e+00	163.533	1.790e+01
67.000	0.000	2.633e+00	-1.503e+01
262.001	2.558e+00	163.298	1.769e+01
68.000	0.000	2.331e+00	-1.514e+01
261.502	2.252e+00	163.025	1.749e+01
69.000	0.000	2.024e+00	-1.524e+01
261.028	1.942e+00	162.710	1.728e+01
70.000	0.000	1.715e+00	-1.535e+01
260.579	1.629e+00	162.351	1.707e+01
71.000	0.000	1.402e+00	-1.545e+01
260.156	1.312e+00	161.945	1.686e+01
72.000	0.000	1.087e+00	-1.556e+01
259.760	9.916e-01	161.489	1.664e+01
73.000	0.000	7.686e-01	-1.566e+01
259.391	6.686e-01	160.978	1.642e+01
74.000	0.000	4.487e-01	-1.576e+01
259.051	3.434e-01	160.414	1.620e+01
75.000	0.000	1.269e-01	-1.585e+01
258.738	1.589e-02	159.790	1.598e+01
76.000	0.000	-1.965e-01	-1.595e+01
258.452	-3.137e-01	159.104	1.576e+01
77.000	0.000	-5.214e-01	-1.604e+01
258.192	-6.451e-01	158.352	1.553e+01
78.000	0.000	-8.475e-01	-1.613e+01
257.956	-9.783e-01	157.531	1.530e+01
79.000	0.000	-1.175e+00	-1.621e+01
257.743	-1.313e+00	156.637	1.508e+01
80.000	0.000	-1.503e+00	-1.630e+01
257.552	-1.649e+00	155.666	1.485e+01
81.000	0.000	-1.831e+00	-1.638e+01
257.381	-1.987e+00	154.614	1.462e+01
82.000	0.000	-2.161e+00	-1.646e+01
257.227	-2.325e+00	153.478	1.440e+01
83.000	0.000	-2.490e+00	-1.653e+01
257.089	-2.665e+00	152.253	1.419e+01
84.000	0.000	-2.820e+00	-1.661e+01
256.964	-3.005e+00	150.934	1.398e+01
85.000	0.000	-3.150e+00	-1.668e+01
256.850	-3.347e+00	149.517	1.378e+01
86.000	0.000	-3.479e+00	-1.676e+01
256.744	-3.688e+00	147.998	1.359e+01
87.000	0.000	-3.808e+00	-1.683e+01
256.645	-4.030e+00	146.371	1.341e+01
88.000	0.000	-4.136e+00	-1.690e+01
256.549	-4.372e+00	144.631	1.325e+01
89.000	0.000	-4.463e+00	-1.698e+01
256.455	-4.713e+00	142.772	1.311e+01
90.000	0.000	-4.788e+00	-1.705e+01
256.361	-5.054e+00	140.789	1.300e+01
91.000	0.000	-5.111e+00	-1.713e+01
256.264	-5.393e+00	138.677	1.291e+01
92.000	0.000	-5.431e+00	-1.721e+01
256.163	-5.730e+00	136.430	1.286e+01
93.000	0.000	-5.748e+00	-1.729e+01
256.055	-6.064e+00	134.043	1.285e+01

94.000	0.000	-6.060e+00	-1.738e+01
255.939	-6.393e+00	131.510	1.289e+01
95.000	0.000	-6.367e+00	-1.747e+01
255.813	-6.718e+00	128.827	1.298e+01
96.000	0.000	-6.667e+00	-1.757e+01
255.677	-7.036e+00	125.990	1.313e+01
97.000	0.000	-6.960e+00	-1.767e+01
255.528	-7.345e+00	122.997	1.335e+01
98.000	0.000	-7.243e+00	-1.778e+01
255.365	-7.645e+00	119.846	1.366e+01
99.000	0.000	-7.516e+00	-1.790e+01
255.188	-7.933e+00	116.538	1.407e+01
100.000	0.000	-7.777e+00	-1.803e+01
254.995	-8.207e+00	113.077	1.459e+01
101.000	0.000	-8.023e+00	-1.817e+01
254.786	-8.465e+00	109.467	1.523e+01
102.000	0.000	-8.254e+00	-1.832e+01
254.559	-8.704e+00	105.717	1.603e+01
103.000	0.000	-8.468e+00	-1.849e+01
254.316	-8.923e+00	101.840	1.701e+01
104.000	0.000	-8.663e+00	-1.867e+01
254.054	-9.119e+00	97.851	1.822e+01
105.000	0.000	-8.838e+00	-1.887e+01
253.773	-9.292e+00	93.767	1.971e+01
106.000	0.000	-8.992e+00	-1.908e+01
253.474	-9.439e+00	89.611	2.160e+01
107.000	0.000	-9.124e+00	-1.931e+01
253.156	-9.562e+00	85.405	2.406e+01
108.000	0.000	-9.235e+00	-1.957e+01
252.818	-9.657e+00	81.176	2.749e+01
109.000	0.000	-9.325e+00	-1.985e+01
252.461	-9.729e+00	76.944	3.306e+01
110.000	0.000	-9.395e+00	-2.015e+01
252.084	-9.777e+00	72.735	4.000e+01
111.000	0.000	-9.447e+00	-2.048e+01
251.688	-9.803e+00	68.572	3.668e+01
112.000	0.000	-9.481e+00	-2.084e+01
251.272	-9.811e+00	64.474	3.022e+01
113.000	0.000	-9.500e+00	-2.124e+01
250.837	-9.801e+00	60.458	2.691e+01
114.000	0.000	-9.507e+00	-2.168e+01
250.381	-9.779e+00	56.538	2.484e+01
115.000	0.000	-9.504e+00	-2.216e+01
249.906	-9.746e+00	52.723	2.345e+01
116.000	0.000	-9.493e+00	-2.268e+01
249.410	-9.707e+00	49.021	2.251e+01
117.000	0.000	-9.478e+00	-2.327e+01
248.894	-9.663e+00	45.437	2.192e+01
118.000	0.000	-9.461e+00	-2.391e+01
248.357	-9.619e+00	41.970	2.159e+01
119.000	0.000	-9.444e+00	-2.463e+01
247.799	-9.578e+00	38.620	2.150e+01
120.000	0.000	-9.430e+00	-2.543e+01
247.220	-9.541e+00	35.384	2.160e+01
121.000	0.000	-9.422e+00	-2.633e+01
246.619	-9.512e+00	32.257	2.191e+01
122.000	0.000	-9.421e+00	-2.735e+01
245.994	-9.492e+00	29.236	2.241e+01
123.000	0.000	-9.430e+00	-2.852e+01
245.346	-9.483e+00	26.311	2.311e+01
124.000	0.000	-9.449e+00	-2.987e+01
244.674	-9.489e+00	23.477	2.405e+01
125.000	0.000	-9.481e+00	-3.148e+01
243.977	-9.509e+00	20.724	2.528e+01

126.000	0.000	-9.528e+00	-3.343e+01
243.257	-9.546e+00	18.045	2.688e+01
127.000	0.000	-9.590e+00	-3.593e+01
242.518	-9.600e+00	15.429	2.904e+01
128.000	0.000	-9.668e+00	-3.934e+01
241.769	-9.673e+00	12.870	3.213e+01
129.000	0.000	-9.764e+00	-4.484e+01
241.103	-9.765e+00	10.353	3.729e+01
130.000	0.000	-9.879e+00	-6.130e+01
242.482	-9.879e+00	7.869	4.000e+01
131.000	0.000	-1.001e+01	-4.844e+01
58.234	-1.001e+01	5.406	4.000e+01
132.000	0.000	-1.017e+01	-4.176e+01
57.548	-1.017e+01	2.952	3.337e+01
133.000	0.000	-1.034e+01	-3.824e+01
56.561	-1.035e+01	0.494	2.952e+01
134.000	0.000	-1.053e+01	-3.593e+01
55.444	-1.054e+01	358.018	2.688e+01
135.000	0.000	-1.075e+01	-3.427e+01
54.215	-1.076e+01	355.507	2.489e+01
136.000	0.000	-1.098e+01	-3.304e+01
52.867	-1.101e+01	352.948	2.331e+01
137.000	0.000	-1.123e+01	-3.212e+01
51.382	-1.127e+01	350.322	2.203e+01
138.000	0.000	-1.150e+01	-3.143e+01
49.735	-1.155e+01	347.612	2.097e+01
139.000	0.000	-1.179e+01	-3.094e+01
47.891	-1.184e+01	344.800	2.011e+01
140.000	0.000	-1.209e+01	-3.062e+01
45.807	-1.215e+01	341.870	1.942e+01
141.000	0.000	-1.240e+01	-3.045e+01
43.423	-1.247e+01	338.805	1.889e+01
142.000	0.000	-1.272e+01	-3.043e+01
40.661	-1.279e+01	335.594	1.851e+01
143.000	0.000	-1.304e+01	-3.054e+01
37.414	-1.312e+01	332.227	1.829e+01
144.000	0.000	-1.336e+01	-3.077e+01
33.541	-1.344e+01	328.703	1.823e+01
145.000	0.000	-1.367e+01	-3.113e+01
28.853	-1.374e+01	325.028	1.835e+01
146.000	0.000	-1.396e+01	-3.158e+01
23.102	-1.403e+01	321.222	1.867e+01
147.000	0.000	-1.422e+01	-3.209e+01
15.991	-1.429e+01	317.315	1.921e+01
148.000	0.000	-1.446e+01	-3.261e+01
7.215	-1.453e+01	313.351	1.999e+01
149.000	0.000	-1.466e+01	-3.303e+01
356.604	-1.472e+01	309.387	2.105e+01
150.000	0.000	-1.481e+01	-3.321e+01
344.377	-1.487e+01	305.488	2.245e+01
151.000	0.000	-1.492e+01	-3.303e+01
331.337	-1.499e+01	301.724	2.427e+01
152.000	0.000	-1.499e+01	-3.248e+01
318.682	-1.507e+01	298.163	2.666e+01
153.000	0.000	-1.501e+01	-3.164e+01
307.423	-1.511e+01	294.872	2.997e+01
154.000	0.000	-1.500e+01	-3.065e+01
297.993	-1.512e+01	291.903	3.525e+01
155.000	0.000	-1.496e+01	-2.961e+01
290.340	-1.511e+01	289.299	4.000e+01
156.000	0.000	-1.490e+01	-2.860e+01
284.189	-1.509e+01	287.090	3.980e+01
157.000	0.000	-1.482e+01	-2.767e+01
279.229	-1.505e+01	285.295	3.259e+01

158.000	0.000	-1.473e+01	-2.683e+01
275.191	-1.501e+01	283.923	2.873e+01
159.000	0.000	-1.464e+01	-2.609e+01
271.864	-1.497e+01	282.974	2.605e+01
160.000	0.000	-1.456e+01	-2.545e+01
269.088	-1.493e+01	282.441	2.396e+01
161.000	0.000	-1.447e+01	-2.491e+01
266.744	-1.488e+01	282.312	2.222e+01
162.000	0.000	-1.439e+01	-2.447e+01
264.743	-1.484e+01	282.573	2.073e+01
163.000	0.000	-1.432e+01	-2.412e+01
263.017	-1.481e+01	283.190	1.943e+01
164.000	0.000	-1.426e+01	-2.387e+01
261.515	-1.476e+01	284.139	1.828e+01
165.000	0.000	-1.420e+01	-2.372e+01
260.195	-1.472e+01	285.383	1.729e+01
166.000	0.000	-1.415e+01	-2.366e+01
259.027	-1.467e+01	286.879	1.644e+01
167.000	0.000	-1.410e+01	-2.369e+01
257.983	-1.461e+01	288.579	1.573e+01
168.000	0.000	-1.405e+01	-2.383e+01
257.042	-1.454e+01	290.429	1.519e+01
169.000	0.000	-1.400e+01	-2.408e+01
256.182	-1.445e+01	292.372	1.482e+01
170.000	0.000	-1.396e+01	-2.444e+01
255.385	-1.436e+01	294.350	1.463e+01
171.000	0.000	-1.390e+01	-2.494e+01
254.631	-1.426e+01	296.315	1.464e+01
172.000	0.000	-1.385e+01	-2.558e+01
253.897	-1.415e+01	298.202	1.487e+01
173.000	0.000	-1.380e+01	-2.639e+01
253.151	-1.404e+01	299.973	1.534e+01
174.000	0.000	-1.374e+01	-2.742e+01
252.348	-1.393e+01	301.587	1.607e+01
175.000	0.000	-1.369e+01	-2.872e+01
251.412	-1.383e+01	303.014	1.711e+01
176.000	0.000	-1.364e+01	-3.038e+01
250.199	-1.374e+01	304.228	1.854e+01
177.000	0.000	-1.360e+01	-3.258e+01
248.390	-1.366e+01	305.213	2.050e+01
178.000	0.000	-1.357e+01	-3.568e+01
245.105	-1.359e+01	305.955	2.328e+01
179.000	0.000	-1.354e+01	-4.065e+01
236.699	-1.355e+01	306.446	2.766e+01
180.000	0.000	-1.353e+01	-4.976e+01
188.112	-1.353e+01	306.681	3.736e+01
-179.000	180.000	-1.352e+01	-4.309e+01
281.042	-1.353e+01	126.662	3.685e+01
-178.000	180.000	-1.353e+01	-3.697e+01
268.025	-1.355e+01	126.388	2.759e+01
-177.000	180.000	-1.354e+01	-3.338e+01
264.034	-1.359e+01	125.863	2.335e+01
-176.000	180.000	-1.357e+01	-3.090e+01
262.274	-1.365e+01	125.094	2.069e+01
-175.000	180.000	-1.360e+01	-2.905e+01
261.421	-1.373e+01	124.092	1.884e+01
-174.000	180.000	-1.364e+01	-2.761e+01
261.048	-1.381e+01	122.875	1.752e+01
-173.000	180.000	-1.368e+01	-2.646e+01
260.979	-1.391e+01	121.462	1.658e+01
-172.000	180.000	-1.372e+01	-2.554e+01
261.130	-1.401e+01	119.882	1.597e+01
-171.000	180.000	-1.376e+01	-2.480e+01
261.459	-1.411e+01	118.169	1.563e+01

-170.000	180.000	-1.380e+01	-2.421e+01
261.945	-1.421e+01	116.359	1.554e+01
-169.000	180.000	-1.384e+01	-2.375e+01
262.576	-1.430e+01	114.509	1.568e+01
-168.000	180.000	-1.387e+01	-2.341e+01
263.353	-1.439e+01	112.665	1.604e+01
-167.000	180.000	-1.391e+01	-2.317e+01
264.278	-1.446e+01	110.880	1.660e+01
-166.000	180.000	-1.395e+01	-2.303e+01
265.361	-1.452e+01	109.210	1.736e+01
-165.000	180.000	-1.399e+01	-2.298e+01
266.615	-1.457e+01	107.707	1.832e+01
-164.000	180.000	-1.403e+01	-2.301e+01
268.060	-1.462e+01	106.420	1.950e+01
-163.000	180.000	-1.408e+01	-2.312e+01
269.719	-1.466e+01	105.393	2.091e+01
-162.000	180.000	-1.414e+01	-2.331e+01
271.620	-1.470e+01	104.663	2.261e+01
-161.000	180.000	-1.420e+01	-2.357e+01
273.801	-1.474e+01	104.257	2.470e+01
-160.000	180.000	-1.427e+01	-2.391e+01
276.306	-1.477e+01	104.211	2.735e+01
-159.000	180.000	-1.435e+01	-2.431e+01
279.186	-1.481e+01	104.539	3.102e+01
-158.000	180.000	-1.443e+01	-2.477e+01
282.501	-1.485e+01	105.256	3.713e+01
-157.000	180.000	-1.451e+01	-2.528e+01
286.321	-1.489e+01	106.370	4.000e+01
-156.000	180.000	-1.458e+01	-2.583e+01
290.716	-1.492e+01	107.885	3.772e+01
-155.000	180.000	-1.465e+01	-2.641e+01
295.754	-1.495e+01	109.796	3.173e+01
-154.000	180.000	-1.470e+01	-2.699e+01
301.484	-1.496e+01	112.090	2.829e+01
-153.000	180.000	-1.472e+01	-2.754e+01
307.913	-1.496e+01	114.745	2.587e+01
-152.000	180.000	-1.472e+01	-2.803e+01
314.981	-1.493e+01	117.727	2.404e+01
-151.000	180.000	-1.469e+01	-2.843e+01
322.544	-1.488e+01	120.997	2.258e+01
-150.000	180.000	-1.462e+01	-2.872e+01
330.368	-1.479e+01	124.497	2.142e+01
-149.000	180.000	-1.451e+01	-2.890e+01
338.166	-1.467e+01	128.172	2.050e+01
-148.000	180.000	-1.436e+01	-2.896e+01
345.655	-1.451e+01	131.959	1.979e+01
-147.000	180.000	-1.417e+01	-2.895e+01
352.611	-1.432e+01	135.795	1.927e+01
-146.000	180.000	-1.395e+01	-2.888e+01
358.900	-1.409e+01	139.627	1.894e+01
-145.000	180.000	-1.371e+01	-2.881e+01
4.469	-1.384e+01	143.405	1.877e+01
-144.000	180.000	-1.344e+01	-2.874e+01
9.327	-1.357e+01	147.094	1.877e+01
-143.000	180.000	-1.316e+01	-2.872e+01
13.522	-1.328e+01	150.668	1.893e+01
-142.000	180.000	-1.287e+01	-2.876e+01
17.111	-1.298e+01	154.112	1.923e+01
-141.000	180.000	-1.258e+01	-2.888e+01
20.153	-1.268e+01	157.420	1.968e+01
-140.000	180.000	-1.229e+01	-2.909e+01
22.699	-1.238e+01	160.597	2.028e+01
-139.000	180.000	-1.201e+01	-2.940e+01
24.781	-1.209e+01	163.648	2.104e+01

-138.000	180.000	-1.173e+01	-2.983e+01
26.414	-1.180e+01	166.586	2.198e+01
-137.000	180.000	-1.147e+01	-3.041e+01
27.585	-1.153e+01	169.424	2.313e+01
-136.000	180.000	-1.123e+01	-3.115e+01
28.241	-1.127e+01	172.178	2.453e+01
-135.000	180.000	-1.100e+01	-3.209e+01
28.269	-1.103e+01	174.864	2.628e+01
-134.000	180.000	-1.079e+01	-3.328e+01
27.440	-1.081e+01	177.498	2.854e+01
-133.000	180.000	-1.060e+01	-3.480e+01
25.292	-1.061e+01	180.094	3.163e+01
-132.000	180.000	-1.042e+01	-3.675e+01
20.822	-1.043e+01	182.669	3.647e+01
-131.000	180.000	-1.027e+01	-3.928e+01
11.612	-1.027e+01	185.236	4.000e+01
-130.000	180.000	-1.013e+01	-4.223e+01
351.606	-1.013e+01	187.807	4.000e+01
-129.000	180.000	-1.001e+01	-4.356e+01
314.384	-1.001e+01	190.396	3.518e+01
-128.000	180.000	-9.903e+00	-4.113e+01
280.781	-9.906e+00	193.014	3.123e+01
-127.000	180.000	-9.817e+00	-3.785e+01
264.031	-9.823e+00	195.670	2.867e+01
-126.000	180.000	-9.745e+00	-3.511e+01
255.967	-9.757e+00	198.379	2.683e+01
-125.000	180.000	-9.687e+00	-3.290e+01
251.676	-9.708e+00	201.147	2.546e+01
-124.000	180.000	-9.643e+00	-3.109e+01
249.214	-9.674e+00	203.984	2.442e+01
-123.000	180.000	-9.610e+00	-2.957e+01
247.745	-9.654e+00	206.898	2.365e+01
-122.000	180.000	-9.587e+00	-2.827e+01
246.862	-9.646e+00	209.897	2.312e+01
-121.000	180.000	-9.572e+00	-2.714e+01
246.349	-9.649e+00	212.986	2.279e+01
-120.000	180.000	-9.564e+00	-2.615e+01
246.077	-9.660e+00	216.174	2.268e+01
-119.000	180.000	-9.560e+00	-2.527e+01
245.972	-9.678e+00	219.462	2.279e+01
-118.000	180.000	-9.557e+00	-2.449e+01
245.983	-9.699e+00	222.855	2.315e+01
-117.000	180.000	-9.555e+00	-2.379e+01
246.076	-9.722e+00	226.355	2.380e+01
-116.000	180.000	-9.550e+00	-2.315e+01
246.227	-9.744e+00	229.961	2.482e+01
-115.000	180.000	-9.540e+00	-2.258e+01
246.420	-9.761e+00	233.671	2.636e+01
-114.000	180.000	-9.522e+00	-2.206e+01
246.644	-9.771e+00	237.480	2.873e+01
-113.000	180.000	-9.494e+00	-2.158e+01
246.888	-9.771e+00	241.379	3.272e+01
-112.000	180.000	-9.453e+00	-2.115e+01
247.147	-9.758e+00	245.358	4.000e+01
-111.000	180.000	-9.399e+00	-2.076e+01
247.414	-9.729e+00	249.403	4.000e+01
-110.000	180.000	-9.328e+00	-2.040e+01
247.686	-9.682e+00	253.499	3.131e+01
-109.000	180.000	-9.240e+00	-2.007e+01
247.959	-9.615e+00	257.625	2.668e+01
-108.000	180.000	-9.133e+00	-1.976e+01
248.231	-9.526e+00	261.762	2.360e+01
-107.000	180.000	-9.008e+00	-1.949e+01
248.500	-9.416e+00	265.885	2.131e+01

-106.000	180.000	-8.863e+00	-1.923e+01
248.764	-9.281e+00	269.977	1.952e+01
-105.000	180.000	-8.698e+00	-1.900e+01
249.022	-9.124e+00	274.015	1.807e+01
-104.000	180.000	-8.515e+00	-1.878e+01
249.274	-8.944e+00	277.977	1.689e+01
-103.000	180.000	-8.315e+00	-1.859e+01
249.519	-8.743e+00	281.846	1.592e+01
-102.000	180.000	-8.097e+00	-1.840e+01
249.757	-8.522e+00	285.606	1.511e+01
-101.000	180.000	-7.865e+00	-1.824e+01
249.987	-8.283e+00	289.243	1.446e+01
-100.000	180.000	-7.618e+00	-1.808e+01
250.210	-8.027e+00	292.748	1.393e+01
-99.000	180.000	-7.360e+00	-1.794e+01
250.426	-7.757e+00	296.113	1.351e+01
-98.000	180.000	-7.090e+00	-1.781e+01
250.636	-7.474e+00	299.332	1.318e+01
-97.000	180.000	-6.811e+00	-1.769e+01
250.840	-7.181e+00	302.403	1.294e+01
-96.000	180.000	-6.523e+00	-1.757e+01
251.040	-6.878e+00	305.326	1.277e+01
-95.000	180.000	-6.229e+00	-1.747e+01
251.237	-6.568e+00	308.102	1.266e+01
-94.000	180.000	-5.929e+00	-1.737e+01
251.431	-6.252e+00	310.732	1.261e+01
-93.000	180.000	-5.624e+00	-1.728e+01
251.625	-5.931e+00	313.219	1.261e+01
-92.000	180.000	-5.315e+00	-1.719e+01
251.821	-5.606e+00	315.569	1.266e+01
-91.000	180.000	-5.002e+00	-1.711e+01
252.019	-5.278e+00	317.785	1.274e+01
-90.000	180.000	-4.688e+00	-1.703e+01
252.222	-4.948e+00	319.871	1.285e+01
-89.000	180.000	-4.371e+00	-1.696e+01
252.433	-4.617e+00	321.834	1.298e+01
-88.000	180.000	-4.052e+00	-1.689e+01
252.653	-4.284e+00	323.677	1.314e+01
-87.000	180.000	-3.733e+00	-1.682e+01
252.884	-3.951e+00	325.406	1.332e+01
-86.000	180.000	-3.412e+00	-1.676e+01
253.129	-3.618e+00	327.026	1.352e+01
-85.000	180.000	-3.091e+00	-1.669e+01
253.392	-3.285e+00	328.541	1.373e+01
-84.000	180.000	-2.770e+00	-1.663e+01
253.673	-2.952e+00	329.955	1.395e+01
-83.000	180.000	-2.449e+00	-1.657e+01
253.975	-2.620e+00	331.274	1.418e+01
-82.000	180.000	-2.128e+00	-1.650e+01
254.302	-2.289e+00	332.502	1.441e+01
-81.000	180.000	-1.807e+00	-1.644e+01
254.655	-1.959e+00	333.642	1.466e+01
-80.000	180.000	-1.487e+00	-1.638e+01
255.037	-1.630e+00	334.699	1.490e+01
-79.000	180.000	-1.167e+00	-1.632e+01
255.450	-1.302e+00	335.676	1.515e+01
-78.000	180.000	-8.485e-01	-1.625e+01
255.895	-9.754e-01	336.577	1.540e+01
-77.000	180.000	-5.309e-01	-1.619e+01
256.376	-6.505e-01	337.406	1.565e+01
-76.000	180.000	-2.146e-01	-1.612e+01
256.893	-3.274e-01	338.166	1.590e+01
-75.000	180.000	1.002e-01	-1.606e+01
257.447	-6.215e-03	338.860	1.616e+01

-74.000	180.000	4.133e-01	-1.599e+01
258.040	3.128e-01	339.492	1.641e+01
-73.000	180.000	7.245e-01	-1.593e+01
258.673	6.295e-01	340.064	1.666e+01
-72.000	180.000	1.034e+00	-1.586e+01
259.346	9.439e-01	340.583	1.691e+01
-71.000	180.000	1.340e+00	-1.579e+01
260.058	1.255e+00	341.046	1.716e+01
-70.000	180.000	1.644e+00	-1.573e+01
260.810	1.563e+00	341.458	1.741e+01
-69.000	180.000	1.944e+00	-1.566e+01
261.600	1.868e+00	341.824	1.766e+01
-68.000	180.000	2.241e+00	-1.560e+01
262.427	2.168e+00	342.144	1.791e+01
-67.000	180.000	2.533e+00	-1.553e+01
263.291	2.465e+00	342.422	1.816e+01
-66.000	180.000	2.822e+00	-1.547e+01
264.188	2.757e+00	342.660	1.841e+01
-65.000	180.000	3.105e+00	-1.541e+01
265.117	3.043e+00	342.862	1.866e+01
-64.000	180.000	3.383e+00	-1.535e+01
266.076	3.324e+00	343.028	1.891e+01
-63.000	180.000	3.655e+00	-1.529e+01
267.061	3.599e+00	343.163	1.916e+01
-62.000	180.000	3.920e+00	-1.524e+01
268.069	3.867e+00	343.267	1.941e+01
-61.000	180.000	4.178e+00	-1.520e+01
269.097	4.128e+00	343.344	1.967e+01
-60.000	180.000	4.428e+00	-1.516e+01
270.142	4.380e+00	343.395	1.993e+01
-59.000	180.000	4.669e+00	-1.513e+01
271.200	4.623e+00	343.423	2.019e+01
-58.000	180.000	4.900e+00	-1.511e+01
272.266	4.857e+00	343.429	2.045e+01
-57.000	180.000	5.121e+00	-1.510e+01
273.338	5.080e+00	343.415	2.072e+01
-56.000	180.000	5.331e+00	-1.509e+01
274.410	5.291e+00	343.383	2.099e+01
-55.000	180.000	5.528e+00	-1.511e+01
275.479	5.490e+00	343.335	2.127e+01
-54.000	180.000	5.710e+00	-1.513e+01
276.540	5.674e+00	343.271	2.155e+01
-53.000	180.000	5.878e+00	-1.517e+01
277.590	5.844e+00	343.194	2.184e+01
-52.000	180.000	6.029e+00	-1.523e+01
278.623	5.997e+00	343.108	2.213e+01
-51.000	180.000	6.163e+00	-1.531e+01
279.636	6.131e+00	343.008	2.243e+01
-50.000	180.000	6.276e+00	-1.541e+01
280.623	6.246e+00	342.898	2.273e+01
-49.000	180.000	6.368e+00	-1.554e+01
281.579	6.339e+00	342.779	2.304e+01
-48.000	180.000	6.435e+00	-1.569e+01
282.500	6.409e+00	342.650	2.335e+01
-47.000	180.000	6.477e+00	-1.588e+01
283.379	6.452e+00	342.514	2.367e+01
-46.000	180.000	6.490e+00	-1.610e+01
284.208	6.466e+00	342.369	2.399e+01
-45.000	180.000	6.471e+00	-1.635e+01
284.980	6.448e+00	342.216	2.432e+01
-44.000	180.000	6.417e+00	-1.665e+01
285.686	6.395e+00	342.055	2.465e+01
-43.000	180.000	6.323e+00	-1.699e+01
286.313	6.303e+00	341.884	2.498e+01

-42.000	180.000	6.185e+00	-1.739e+01
286.847	6.166e+00	341.704	2.532e+01
-41.000	180.000	5.997e+00	-1.785e+01
287.267	5.979e+00	341.511	2.565e+01
-40.000	180.000	5.753e+00	-1.837e+01
287.549	5.736e+00	341.304	2.599e+01
-39.000	180.000	5.443e+00	-1.897e+01
287.655	5.428e+00	341.081	2.631e+01
-38.000	180.000	5.059e+00	-1.966e+01
287.538	5.044e+00	340.834	2.663e+01
-37.000	180.000	4.585e+00	-2.045e+01
287.125	4.571e+00	340.556	2.694e+01
-36.000	180.000	4.004e+00	-2.137e+01
286.310	3.991e+00	340.238	2.722e+01
-35.000	180.000	3.293e+00	-2.243e+01
284.926	3.281e+00	339.862	2.746e+01
-34.000	180.000	2.416e+00	-2.367e+01
282.701	2.405e+00	339.401	2.764e+01
-33.000	180.000	1.323e+00	-2.512e+01
279.174	1.313e+00	338.810	2.772e+01
-32.000	180.000	-6.612e-02	-2.681e+01
273.523	-7.533e-02	338.000	2.763e+01
-31.000	180.000	-1.892e+00	-2.872e+01
264.268	-1.901e+00	336.789	2.723e+01
-30.000	180.000	-4.428e+00	-3.063e+01
249.103	-4.438e+00	334.707	2.621e+01
-29.000	180.000	-8.337e+00	-3.178e+01
226.767	-8.357e+00	330.124	2.367e+01
-28.000	180.000	-1.586e+01	-3.135e+01
202.515	-1.598e+01	311.609	1.588e+01
-27.000	180.000	-1.680e+01	-2.972e+01
184.211	-1.702e+01	197.205	2.610e+01
-26.000	180.000	-8.128e+00	-2.785e+01
172.819	-8.174e+00	174.018	4.000e+01
-25.000	180.000	-3.499e+00	-2.615e+01
165.994	-3.522e+00	168.925	4.000e+01
-24.000	180.000	-3.608e-01	-2.470e+01
161.885	-3.768e-01	166.708	4.000e+01
-23.000	180.000	2.022e+00	-2.349e+01
159.435	2.010e+00	165.451	4.000e+01
-22.000	180.000	3.946e+00	-2.249e+01
158.064	3.936e+00	164.631	4.000e+01
-21.000	180.000	5.557e+00	-2.166e+01
157.444	5.549e+00	164.046	4.000e+01
-20.000	180.000	6.941e+00	-2.098e+01
157.383	6.934e+00	163.603	4.000e+01
-19.000	180.000	8.150e+00	-2.044e+01
157.771	8.144e+00	163.252	4.000e+01
-18.000	180.000	9.217e+00	-2.001e+01
158.544	9.212e+00	162.966	4.000e+01
-17.000	180.000	1.017e+01	-1.969e+01
159.670	1.016e+01	162.725	4.000e+01
-16.000	180.000	1.102e+01	-1.947e+01
161.141	1.102e+01	162.520	4.000e+01
-15.000	180.000	1.179e+01	-1.934e+01
162.968	1.178e+01	162.342	4.000e+01
-14.000	180.000	1.247e+01	-1.930e+01
165.177	1.247e+01	162.186	4.000e+01
-13.000	180.000	1.309e+01	-1.934e+01
167.810	1.309e+01	162.047	4.000e+01
-12.000	180.000	1.365e+01	-1.945e+01
170.925	1.365e+01	161.924	4.000e+01
-11.000	180.000	1.415e+01	-1.962e+01
174.593	1.415e+01	161.815	4.000e+01

-10.000	180.000	1.460e+01	-1.985e+01
178.897	1.460e+01	161.716	4.000e+01
-9.000	180.000	1.499e+01	-2.011e+01
183.922	1.499e+01	161.628	4.000e+01
-8.000	180.000	1.534e+01	-2.038e+01
189.744	1.534e+01	161.549	4.000e+01
-7.000	180.000	1.564e+01	-2.062e+01
196.399	1.564e+01	161.478	4.000e+01
-6.000	180.000	1.589e+01	-2.080e+01
203.847	1.589e+01	161.416	4.000e+01
-5.000	180.000	1.611e+01	-2.087e+01
211.939	1.611e+01	161.360	3.922e+01
-4.000	180.000	1.628e+01	-2.081e+01
220.403	1.628e+01	161.313	3.841e+01
-3.000	180.000	1.641e+01	-2.059e+01
228.884	1.641e+01	161.271	3.768e+01
-2.000	180.000	1.650e+01	-2.023e+01
237.027	1.650e+01	161.237	3.699e+01
-1.000	180.000	1.655e+01	-1.976e+01
244.554	1.654e+01	161.208	3.636e+01