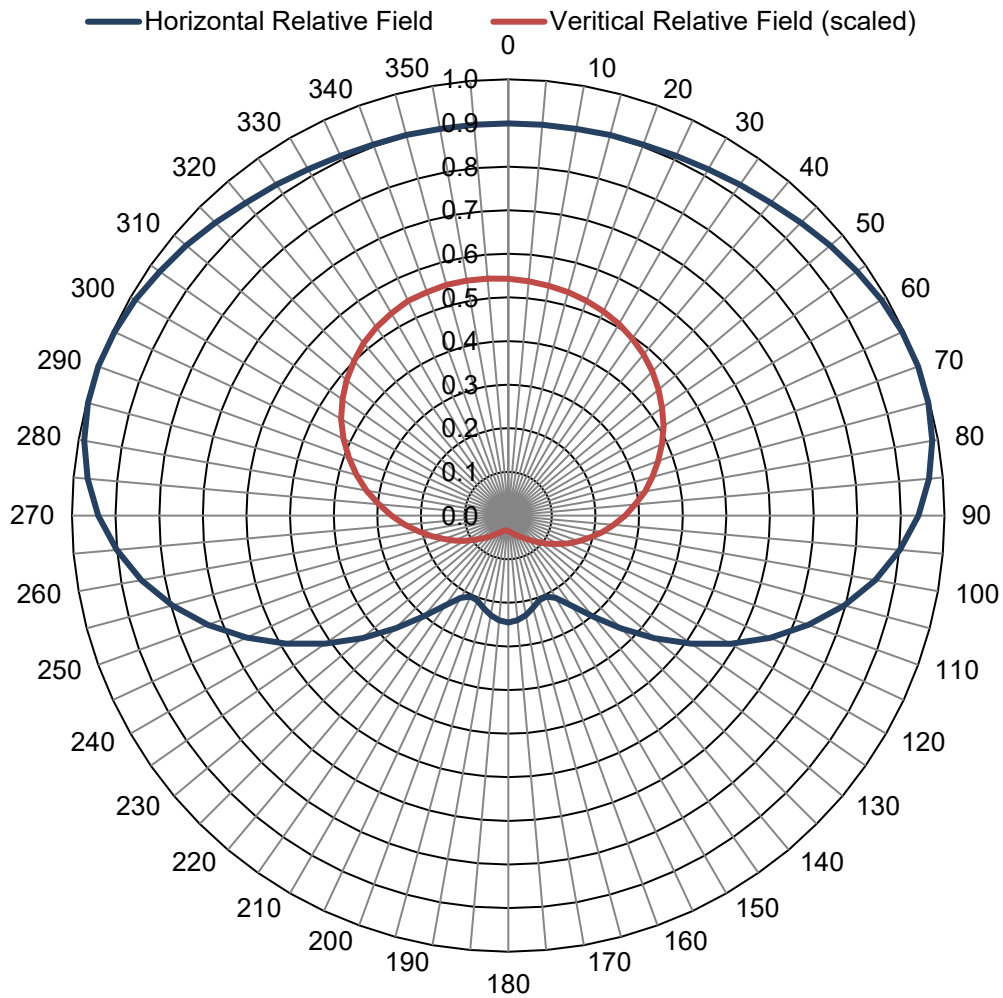
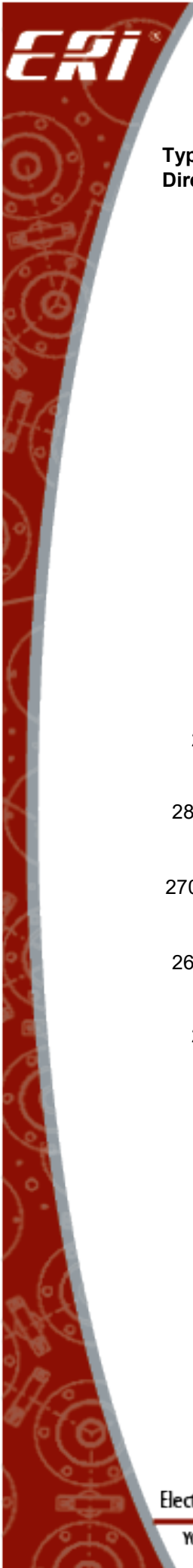


Composite Azimuth Patterns

Type:	CASCADE C170	Polarization:	Elliptical
Directivity (H-Pol):	1.70 numeric (2.30 dB)	NOTE: Pattern shape and directivity may vary with channel and mounting	
Directivity (V-Pol):	2.60 numeric (4.15 dB)		
ERP V/H Ratio::	30.00%		

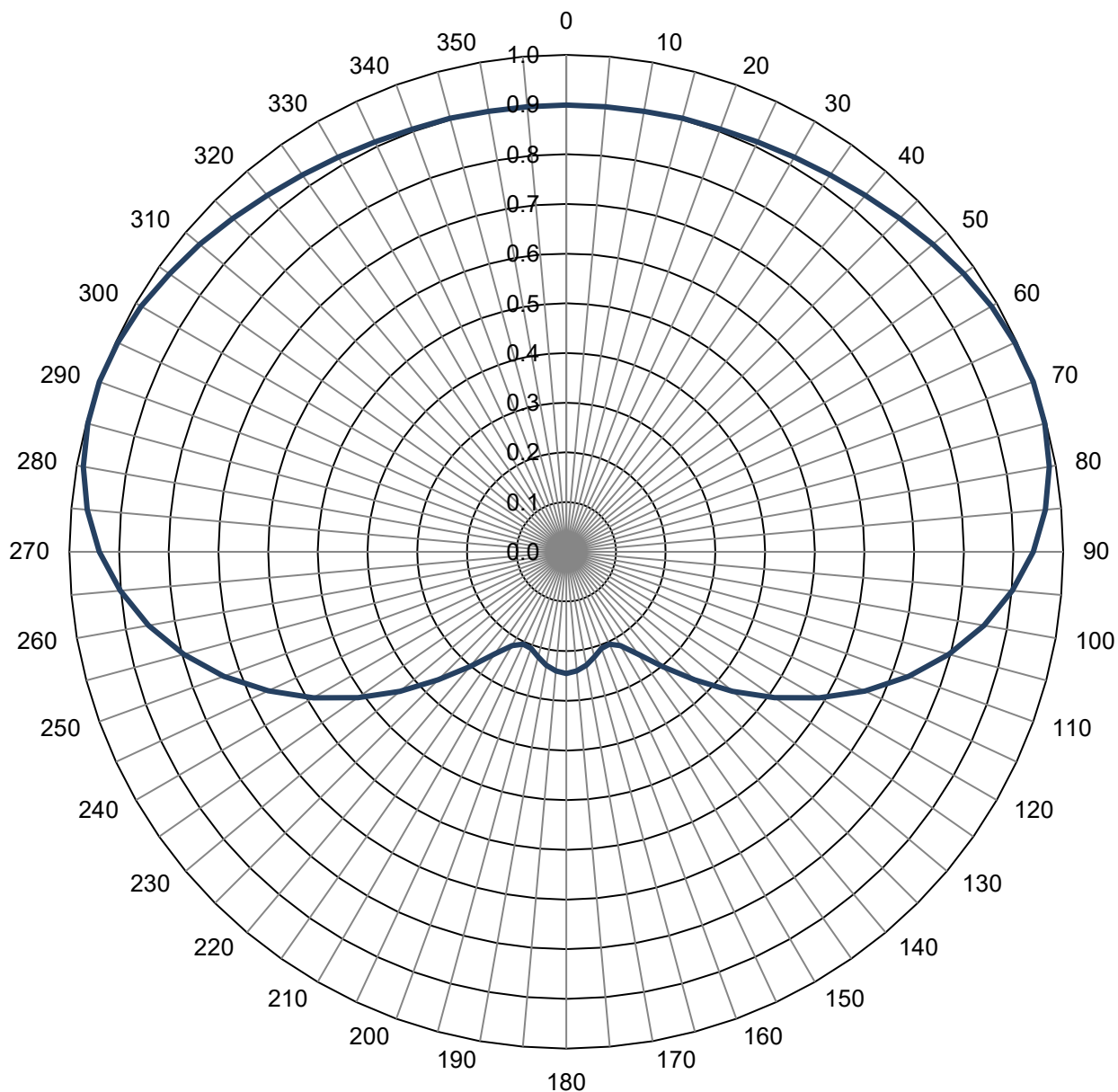




Azimuth Pattern

Type: CASCADE C170 Polarization: Horizontal
Directivity: 1.70 numeric (2.30 dB) NOTE: Pattern shape and directivity may vary with channel and mounting configuration.

Relative Field



Tabulated Data for Azimuth Pattern

Type:

CASCADE C170

Polarization:

Horizontal

Angle	Field	dB
0	0.899	-0.92
2	0.899	-0.92
4	0.899	-0.92
6	0.900	-0.92
8	0.900	-0.92
10	0.900	-0.92
12	0.901	-0.91
14	0.902	-0.90
16	0.903	-0.89
18	0.904	-0.88
20	0.905	-0.87
22	0.907	-0.85
24	0.909	-0.83
26	0.911	-0.81
28	0.914	-0.78
30	0.917	-0.75
32	0.920	-0.72
34	0.924	-0.69
36	0.928	-0.65
38	0.932	-0.61
40	0.936	-0.57
42	0.941	-0.53
44	0.946	-0.48
46	0.952	-0.43
48	0.957	-0.38
50	0.963	-0.33
52	0.968	-0.28
54	0.973	-0.24
56	0.978	-0.19
58	0.983	-0.15
60	0.988	-0.10
62	0.992	-0.07
64	0.995	-0.04
66	0.997	-0.03
68	0.999	-0.01
70	1.000	0.00
72	1.000	0.00
74	0.998	-0.02
76	0.996	-0.03
78	0.992	-0.07
80	0.987	-0.11
82	0.981	-0.17
84	0.973	-0.24
86	0.963	-0.33
88	0.952	-0.43
90	0.940	-0.54
92	0.925	-0.68
94	0.910	-0.82
96	0.893	-0.98
98	0.874	-1.17

Angle	Field	dB
100	0.854	-1.37
102	0.832	-1.60
104	0.809	-1.84
106	0.785	-2.10
108	0.760	-2.38
110	0.733	-2.70
112	0.706	-3.02
114	0.677	-3.39
116	0.648	-3.77
118	0.619	-4.17
120	0.588	-4.61
122	0.558	-5.07
124	0.527	-5.56
126	0.497	-6.07
128	0.466	-6.63
130	0.437	-7.19
132	0.407	-7.81
134	0.379	-8.43
136	0.352	-9.07
138	0.326	-9.74
140	0.302	-10.40
142	0.280	-11.06
144	0.260	-11.70
146	0.243	-12.29
148	0.229	-12.80
150	0.218	-13.23
152	0.210	-13.56
154	0.206	-13.72
156	0.204	-13.81
158	0.205	-13.76
160	0.207	-13.68
162	0.211	-13.51
164	0.216	-13.31
166	0.222	-13.07
168	0.227	-12.88
170	0.232	-12.69
172	0.236	-12.54
174	0.240	-12.40
176	0.242	-12.32
178	0.244	-12.25
180	0.245	-12.22
182	0.244	-12.25
184	0.242	-12.32
186	0.240	-12.40
188	0.236	-12.54
190	0.232	-12.69
192	0.227	-12.88
194	0.222	-13.07
196	0.216	-13.31
198	0.211	-13.51

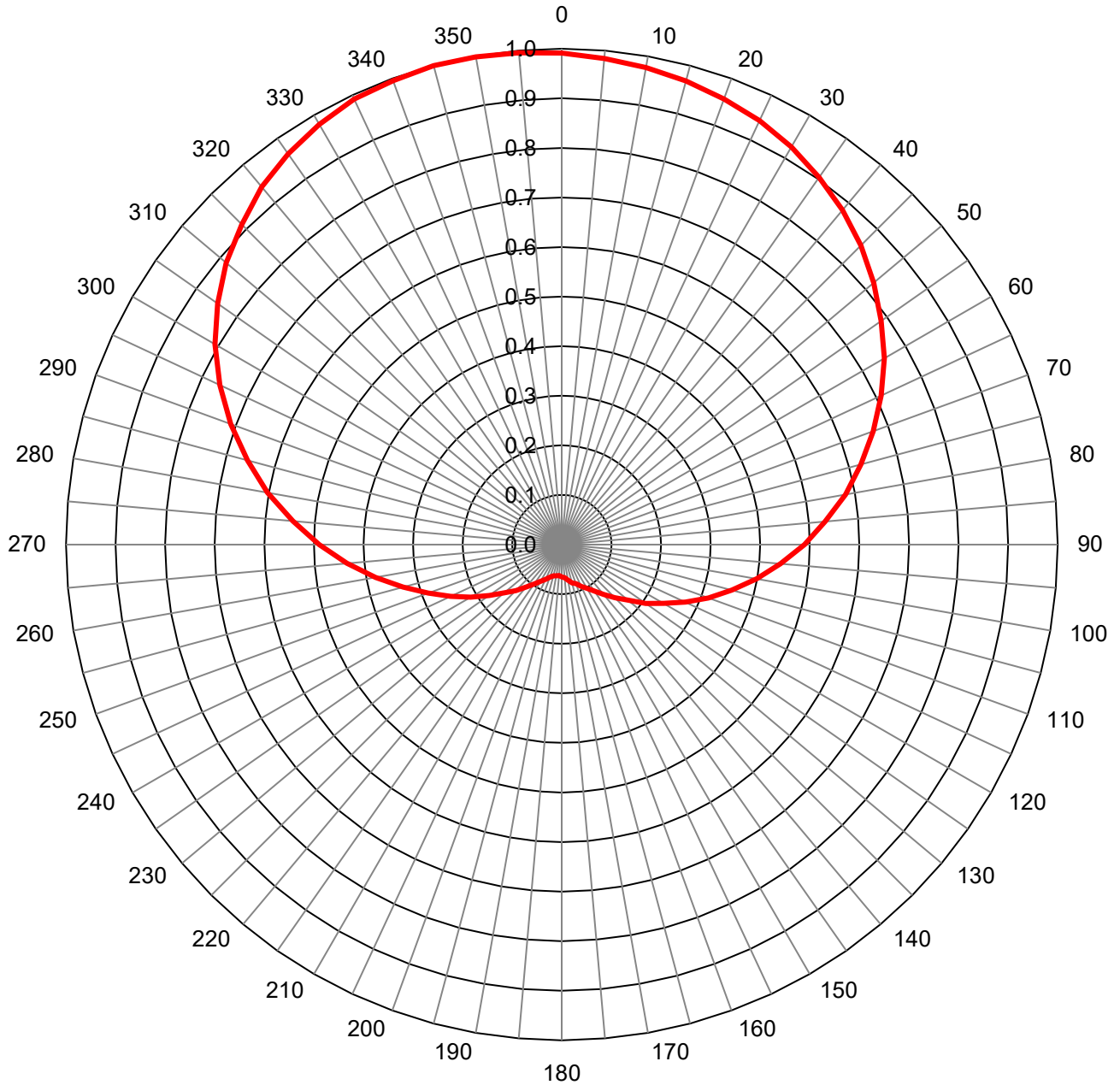
Angle	Field	dB
200	0.207	-13.68
202	0.205	-13.76
204	0.204	-13.81
206	0.206	-13.72
208	0.210	-13.56
210	0.218	-13.23
212	0.229	-12.80
214	0.243	-12.29
216	0.260	-11.70
218	0.280	-11.06
220	0.302	-10.40
222	0.326	-9.74
224	0.352	-9.07
226	0.379	-8.43
228	0.407	-7.81
230	0.437	-7.19
232	0.466	-6.63
234	0.497	-6.07
236	0.527	-5.56
238	0.558	-5.07
240	0.588	-4.61
242	0.619	-4.17
244	0.648	-3.77
246	0.677	-3.39
248	0.706	-3.02
250	0.733	-2.70
252	0.760	-2.38
254	0.785	-2.10
256	0.809	-1.84
258	0.832	-1.60
260	0.854	-1.37
262	0.874	-1.17
264	0.893	-0.98
266	0.910	-0.82
268	0.925	-0.68
270	0.940	-0.54
272	0.952	-0.43
274	0.963	-0.33
276	0.973	-0.24
278	0.981	-0.17
280	0.987	-0.11
282	0.992	-0.07
284	0.996	-0.03
286	0.998	-0.02
288	1.000	0.00
290	1.000	0.00
292	0.999	-0.01
294	0.997	-0.03
296	0.995	-0.04
298	0.992	-0.07

Angle	Field	dB
300	0.988	-0.10
302	0.983	-0.15
304	0.978	-0.19
306	0.973	-0.24
308	0.968	-0.28
310	0.963	-0.33
312	0.957	-0.38
314	0.952	-0.43
316	0.946	-0.48
318	0.941	-0.53
320	0.936	-0.57
322	0.932	-0.61
324	0.928	-0.65
326	0.924	-0.69
328	0.920	-0.72
330	0.917	-0.75
332	0.914	-0.78
334	0.911	-0.81
336	0.909	-0.83
338	0.907	-0.85
340	0.905	-0.87
342	0.904	-0.88
344	0.903	-0.89
346	0.902	-0.90
348	0.901	-0.91
350	0.900	-0.92
352	0.900	-0.92
354	0.900	-0.92
356	0.899	-0.92
358	0.899	-0.92
360	0.899	-0.92

Azimuth Pattern

Type:	CASCADE C170	Polarization:	Vertical
Directivity:	2.60 numeric (4.15 dB)	NOTE: Pattern shape and directivity may vary with channel and mounting configuration.	
Peak(s) at:			

Relative Field



Tabulated Data for Azimuth Pattern

Type:

CASCADE C170

Polarization:

Vertical

Angle	Field	dB
0	0.991	-0.08
2	0.990	-0.09
4	0.985	-0.13
6	0.984	-0.14
8	0.981	-0.17
10	0.977	-0.20
12	0.974	-0.23
14	0.969	-0.27
16	0.966	-0.30
18	0.962	-0.33
20	0.956	-0.39
22	0.950	-0.44
24	0.946	-0.48
26	0.940	-0.53
28	0.935	-0.59
30	0.926	-0.67
32	0.917	-0.75
34	0.910	-0.82
36	0.900	-0.92
38	0.891	-1.00
40	0.881	-1.10
42	0.869	-1.22
44	0.857	-1.34
46	0.846	-1.46
48	0.834	-1.58
50	0.821	-1.71
52	0.808	-1.85
54	0.795	-2.00
56	0.780	-2.16
58	0.764	-2.34
60	0.751	-2.49
62	0.735	-2.67
64	0.719	-2.86
66	0.702	-3.08
68	0.684	-3.30
70	0.668	-3.50
72	0.652	-3.71
74	0.633	-3.97
76	0.616	-4.21
78	0.597	-4.48
80	0.581	-4.72
82	0.560	-5.03
84	0.541	-5.33
86	0.525	-5.59
88	0.507	-5.91
90	0.489	-6.21
92	0.470	-6.56
94	0.451	-6.91
96	0.434	-7.25
98	0.418	-7.58

Angle	Field	dB
100	0.399	-7.98
102	0.380	-8.41
104	0.363	-8.81
106	0.345	-9.24
108	0.329	-9.66
110	0.314	-10.05
112	0.297	-10.55
114	0.282	-10.98
116	0.266	-11.49
118	0.250	-12.03
120	0.237	-12.50
122	0.224	-12.99
124	0.211	-13.51
126	0.199	-14.00
128	0.188	-14.53
130	0.175	-15.15
132	0.164	-15.68
134	0.156	-16.15
136	0.147	-16.65
138	0.138	-17.19
140	0.131	-17.65
142	0.125	-18.05
144	0.119	-18.46
146	0.114	-18.90
148	0.109	-19.24
150	0.102	-19.84
152	0.099	-20.09
154	0.095	-20.49
156	0.092	-20.75
158	0.087	-21.17
160	0.084	-21.47
162	0.081	-21.78
164	0.079	-22.10
166	0.076	-22.41
168	0.076	-22.41
170	0.073	-22.76
172	0.070	-23.12
174	0.067	-23.49
176	0.068	-23.30
178	0.065	-23.68
180	0.065	-23.68
182	0.064	-23.86
184	0.063	-24.06
186	0.064	-23.86
188	0.063	-24.06
190	0.064	-23.86
192	0.065	-23.68
194	0.065	-23.68
196	0.067	-23.49
198	0.068	-23.30

Angle	Field	dB
200	0.070	-23.12
202	0.073	-22.76
204	0.076	-22.41
206	0.079	-22.10
208	0.081	-21.78
210	0.086	-21.32
212	0.090	-20.89
214	0.095	-20.49
216	0.100	-19.96
218	0.106	-19.47
220	0.112	-19.01
222	0.119	-18.46
224	0.127	-17.95
226	0.134	-17.46
228	0.143	-16.91
230	0.151	-16.40
232	0.163	-15.75
234	0.172	-15.30
236	0.185	-14.66
238	0.199	-14.00
240	0.213	-13.45
242	0.224	-12.99
244	0.237	-12.50
246	0.255	-11.88
248	0.271	-11.35
250	0.287	-10.85
252	0.306	-10.29
254	0.323	-9.81
256	0.342	-9.32
258	0.363	-8.81
260	0.381	-8.37
262	0.403	-7.89
264	0.424	-7.46
266	0.445	-7.02
268	0.467	-6.61
270	0.489	-6.21
272	0.512	-5.81
274	0.533	-5.47
276	0.556	-5.10
278	0.579	-4.74
280	0.603	-4.40
282	0.626	-4.07
284	0.646	-3.79
286	0.668	-3.50
288	0.690	-3.22
290	0.710	-2.97
292	0.732	-2.71
294	0.753	-2.47
296	0.769	-2.29
298	0.788	-2.07

Angle	Field	dB
300	0.808	-1.85
302	0.824	-1.68
304	0.840	-1.52
306	0.854	-1.37
308	0.869	-1.22
310	0.884	-1.08
312	0.895	-0.96
314	0.908	-0.84
316	0.920	-0.72
318	0.930	-0.63
320	0.942	-0.52
322	0.950	-0.44
324	0.958	-0.37
326	0.965	-0.31
328	0.972	-0.24
330	0.978	-0.19
332	0.984	-0.14
334	0.990	-0.09
336	0.994	-0.05
338	0.996	-0.04
340	0.996	-0.04
342	0.997	-0.03
344	1.000	0.00
346	1.000	0.00
348	1.000	0.00
350	0.999	-0.01
352	0.999	-0.01
354	0.996	-0.04
356	0.996	-0.04
358	0.994	-0.05
360	0.991	-0.08