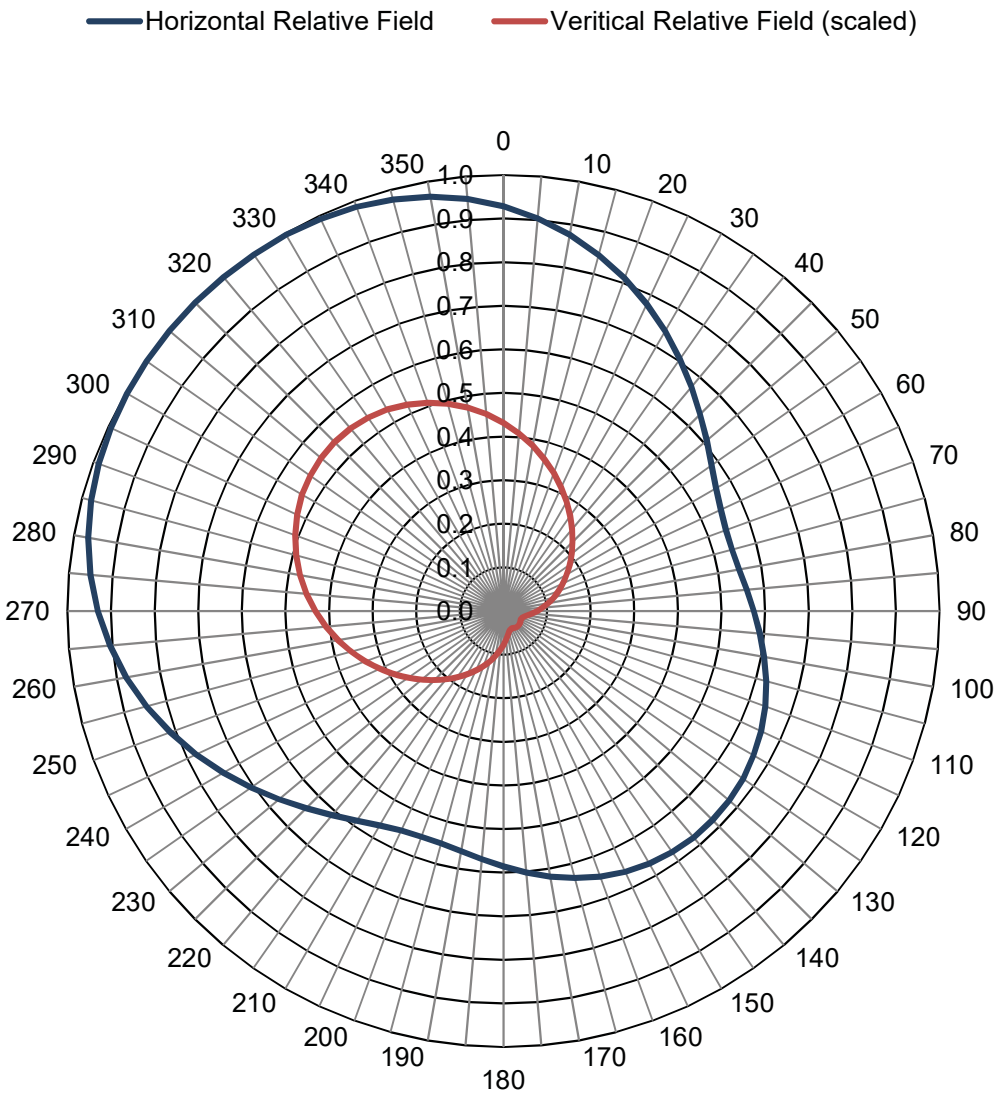
Composite Azimuth Patterns

Type:	ATW-OX		**Polarization:**	Elliptical
Directivity (H-Pol):	1.71 numeric	(2.33 dB)	**Frequency:**	30 (ATSC)
Directivity (V-Pol):	3.05 numeric	(4.84 dB)	**Location:**	Zanesville, OH
Percent Horizontal:	82.83%		NOTE: Pattern shape and directivity may vary with channel and mounting	
Percent Vertical:	17.17%			
Power Ratio:	20.73%			
ERP V/H Ratio::	30.00%			

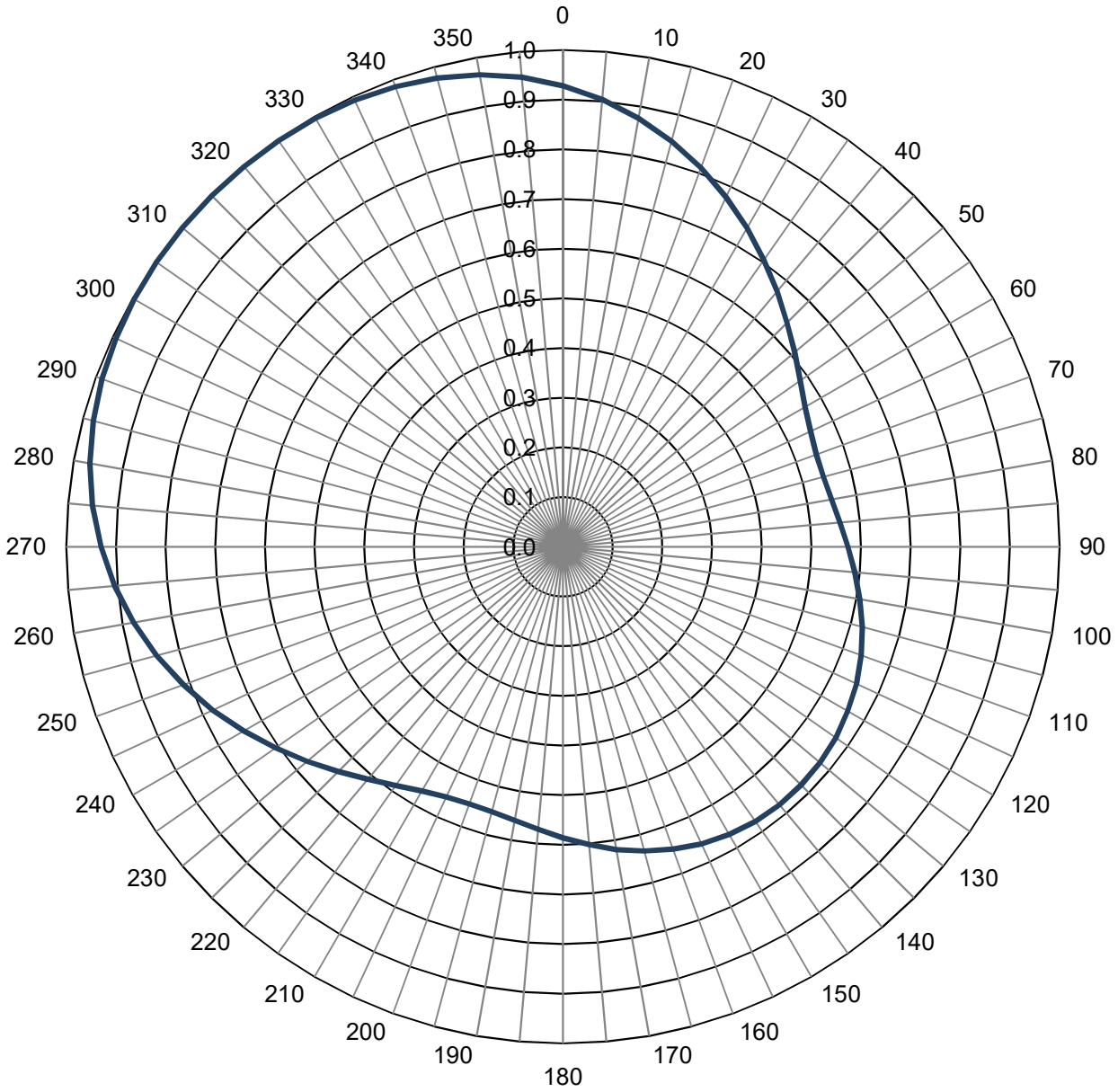


Azimuth Pattern

Type:	ATW-OX	**Polarization:**	Horizontal
Directivity:	1.71 numeric (2.33 dB)	**Frequency:**	30 (ATSC)
Peak(s) at:		**Location:**	Zanesville, OH

NOTE: Pattern shape and directivity may vary with channel and mounting configuration.

Relative Field



Tabulated Data for Azimuth Pattern

Type: ATW-OX

Angle	Field	dB
0	0.928	-0.65
2	0.919	-0.73
4	0.909	-0.83
6	0.899	-0.92
8	0.888	-1.03
10	0.876	-1.15
12	0.864	-1.27
14	0.852	-1.39
16	0.839	-1.52
18	0.825	-1.67
20	0.812	-1.81
22	0.798	-1.96
24	0.784	-2.11
26	0.770	-2.27
28	0.755	-2.44
30	0.741	-2.60
32	0.727	-2.77
34	0.712	-2.95
36	0.698	-3.12
38	0.684	-3.30
40	0.671	-3.47
42	0.657	-3.65
44	0.644	-3.82
46	0.632	-3.99
48	0.620	-4.15
50	0.609	-4.31
52	0.598	-4.47
54	0.588	-4.61
56	0.579	-4.75
58	0.571	-4.87
60	0.563	-4.99
62	0.557	-5.08
64	0.552	-5.16
66	0.548	-5.22
68	0.545	-5.27
70	0.543	-5.30
72	0.542	-5.32
74	0.542	-5.32
76	0.543	-5.30
78	0.546	-5.26
80	0.549	-5.21
82	0.553	-5.15
84	0.557	-5.08
86	0.562	-5.01
88	0.568	-4.91
90	0.574	-4.82
92	0.580	-4.73
94	0.587	-4.63
96	0.594	-4.52
98	0.601	-4.42

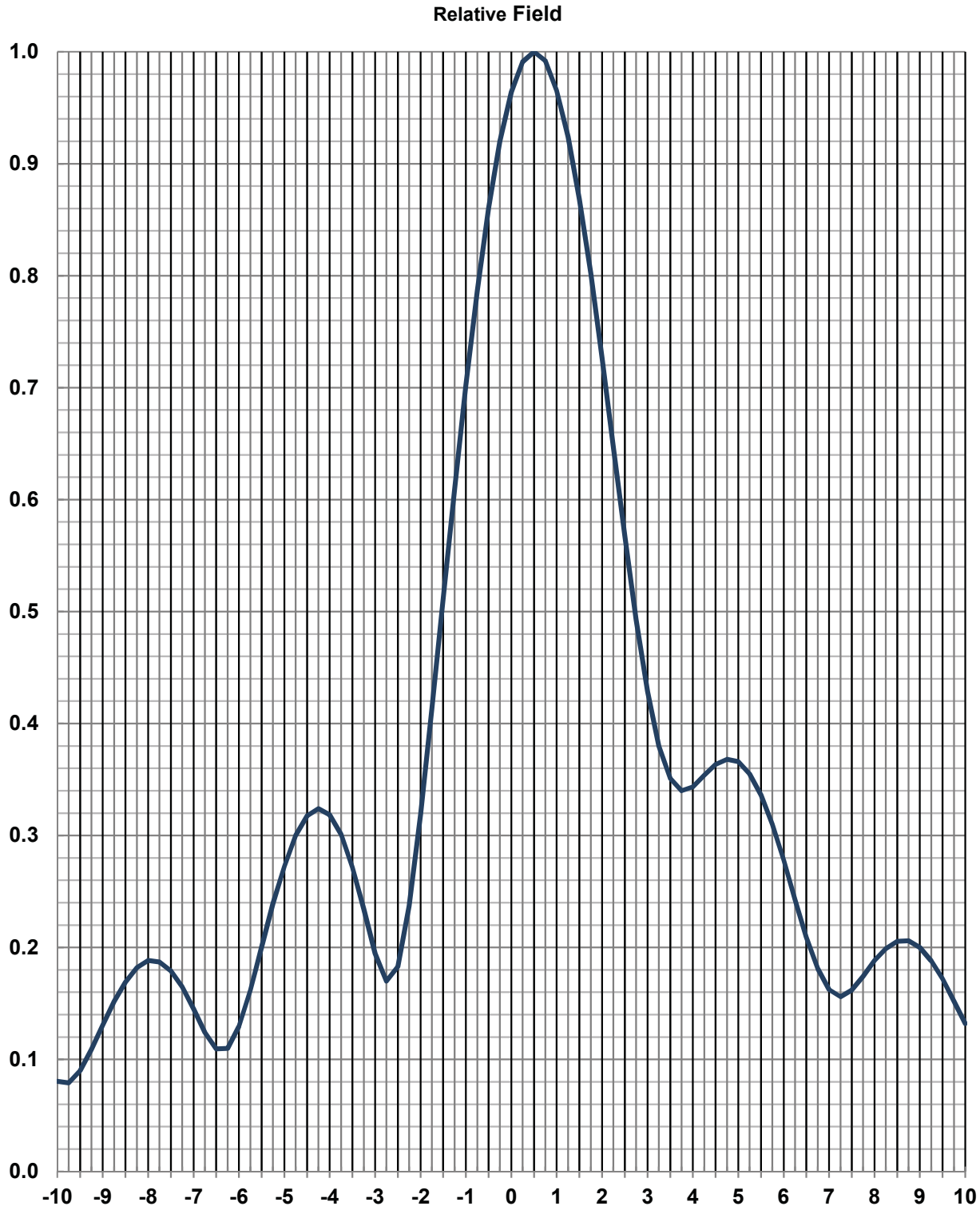
Angle	Field	dB
100	0.607	-4.34
102	0.614	-4.24
104	0.620	-4.15
106	0.627	-4.05
108	0.633	-3.97
110	0.639	-3.89
112	0.644	-3.82
114	0.649	-3.76
116	0.654	-3.69
118	0.658	-3.64
120	0.662	-3.58
122	0.666	-3.53
124	0.669	-3.49
126	0.672	-3.45
128	0.674	-3.43
130	0.676	-3.40
132	0.677	-3.39
134	0.678	-3.38
136	0.679	-3.36
138	0.679	-3.36
140	0.678	-3.38
142	0.677	-3.39
144	0.676	-3.40
146	0.674	-3.43
148	0.671	-3.47
150	0.669	-3.49
152	0.665	-3.54
154	0.662	-3.58
156	0.657	-3.65
158	0.653	-3.70
160	0.648	-3.77
162	0.643	-3.84
164	0.637	-3.92
166	0.631	-4.00
168	0.625	-4.08
170	0.619	-4.17
172	0.612	-4.26
174	0.605	-4.36
176	0.599	-4.45
178	0.592	-4.55
180	0.586	-4.64
182	0.580	-4.73
184	0.574	-4.82
186	0.568	-4.91
188	0.563	-4.99
190	0.559	-5.05
192	0.556	-5.10
194	0.553	-5.15
196	0.551	-5.18
198	0.550	-5.19

Angle	Field	dB
200	0.551	-5.18
202	0.552	-5.16
204	0.554	-5.13
206	0.558	-5.07
208	0.562	-5.01
210	0.568	-4.91
212	0.575	-4.81
214	0.583	-4.69
216	0.591	-4.57
218	0.601	-4.42
220	0.611	-4.28
222	0.622	-4.12
224	0.634	-3.96
226	0.646	-3.80
228	0.659	-3.62
230	0.672	-3.45
232	0.685	-3.29
234	0.699	-3.11
236	0.713	-2.94
238	0.727	-2.77
240	0.742	-2.59
242	0.756	-2.43
244	0.770	-2.27
246	0.785	-2.10
248	0.799	-1.95
250	0.813	-1.80
252	0.827	-1.65
254	0.840	-1.51
256	0.853	-1.38
258	0.866	-1.25
260	0.878	-1.13
262	0.889	-1.02
264	0.901	-0.91
266	0.911	-0.81
268	0.921	-0.71
270	0.930	-0.63
272	0.939	-0.55
274	0.947	-0.47
276	0.954	-0.41
278	0.961	-0.35
280	0.967	-0.29
282	0.972	-0.25
284	0.977	-0.20
286	0.981	-0.17
288	0.985	-0.13
290	0.988	-0.10
292	0.990	-0.09
294	0.993	-0.06
296	0.994	-0.05
298	0.996	-0.03

Angle	Field	dB
300	0.997	-0.03
302	0.998	-0.02
304	0.999	-0.01
306	0.999	-0.01
308	1.000	0.00
310	1.000	0.00
312	1.000	0.00
314	1.000	0.00
316	1.000	0.00
318	1.000	0.00
320	0.999	-0.01
322	0.999	-0.01
324	0.999	-0.01
326	0.998	-0.02
328	0.997	-0.03
330	0.996	-0.03
332	0.995	-0.04
334	0.993	-0.06
336	0.991	-0.08
338	0.989	-0.10
340	0.986	-0.12
342	0.983	-0.15
344	0.979	-0.18
346	0.975	-0.22
348	0.970	-0.26
350	0.965	-0.31
352	0.959	-0.36
354	0.952	-0.43
356	0.945	-0.49
358	0.937	-0.57
360	0.928	-0.65

Elevation Pattern

Type:	ATW16H2H		**Polarization:**	Horizontal
Directivity:			**Frequency:**	30 (ATSC)
Main Lobe:	16.00 numeric	(12.04 dB)	**Location:**	Zanesville, OH
Horizontal:	14.87 numeric	(11.72 dB)	**Beam Tilt:**	0.50 degrees



Tabulated Data for Elevation Pattern

Type: ATW16H2H

-10 to 10 degrees in 0.25 degree increments.
10 to 90 degrees in 0.50 degree increments.

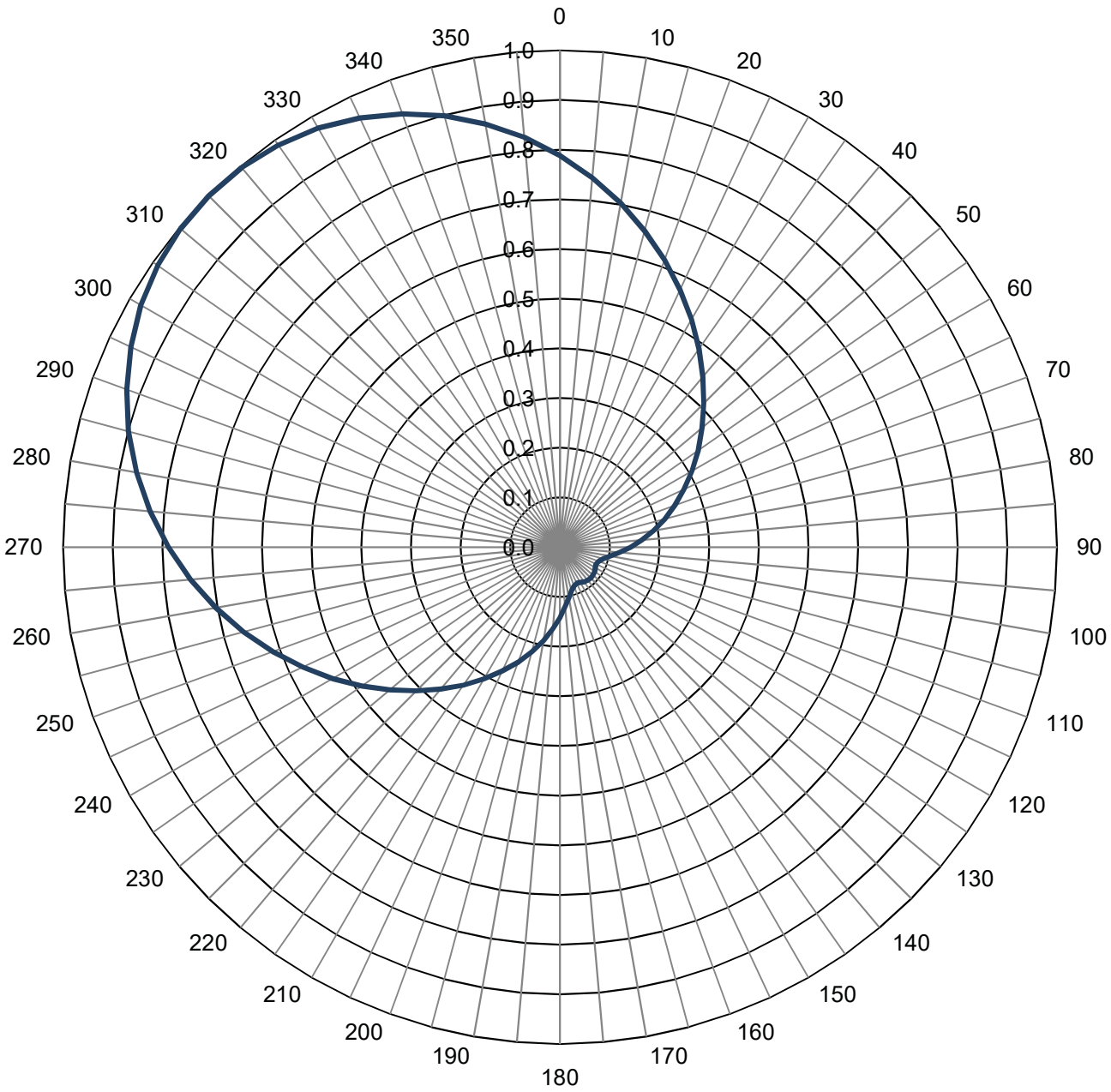
Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-10.00	0.081	-21.88	2.25	0.647	-3.78	19.00	0.090	-20.92	43.50	0.062	-24.22	68.00	0.074	-22.62
-9.75	0.079	-22.05	2.50	0.568	-4.92	19.50	0.095	-20.45	44.00	0.063	-24.01	68.50	0.080	-21.99
-9.50	0.090	-20.92	2.75	0.493	-6.14	20.00	0.089	-21.06	44.50	0.061	-24.36	69.00	0.084	-21.57
-9.25	0.109	-19.25	3.00	0.429	-7.36	20.50	0.073	-22.73	45.00	0.053	-25.60	69.50	0.086	-21.31
-9.00	0.131	-17.69	3.25	0.380	-8.40	21.00	0.056	-25.11	45.50	0.042	-27.54	70.00	0.086	-21.31
-8.75	0.152	-16.36	3.50	0.351	-9.09	21.50	0.050	-26.11	46.00	0.033	-29.63	70.50	0.085	-21.41
-8.50	0.169	-15.44	3.75	0.340	-9.37	22.00	0.060	-24.51	46.50	0.031	-30.31	71.00	0.082	-21.78
-8.25	0.182	-14.80	4.00	0.344	-9.28	22.50	0.074	-22.62	47.00	0.037	-28.64	71.50	0.078	-22.21
-8.00	0.189	-14.49	4.25	0.354	-9.02	23.00	0.082	-21.72	47.50	0.047	-26.56	72.00	0.072	-22.91
-7.75	0.187	-14.56	4.50	0.364	-8.79	23.50	0.081	-21.88	48.00	0.056	-25.04	72.50	0.066	-23.68
-7.50	0.179	-14.94	4.75	0.368	-8.68	24.00	0.070	-23.16	48.50	0.063	-24.08	73.00	0.058	-24.73
-7.25	0.165	-15.65	5.00	0.366	-8.73	24.50	0.055	-25.27	49.00	0.064	-23.88	73.50	0.050	-26.02
-7.00	0.145	-16.77	5.25	0.355	-9.00	25.00	0.044	-27.23	49.50	0.062	-24.22	74.00	0.042	-27.54
-6.75	0.124	-18.13	5.50	0.336	-9.47	25.50	0.047	-26.56	50.00	0.055	-25.19	74.50	0.034	-29.50
-6.50	0.110	-19.21	5.75	0.310	-10.17	26.00	0.060	-24.51	50.50	0.046	-26.74	75.00	0.026	-31.87
-6.25	0.110	-19.17	6.00	0.278	-11.12	26.50	0.071	-22.97	51.00	0.036	-28.87	75.50	0.018	-34.89
-6.00	0.130	-17.75	6.25	0.243	-12.29	27.00	0.075	-22.56	51.50	0.030	-30.60	76.00	0.012	-38.79
-5.75	0.162	-15.81	6.50	0.210	-13.58	27.50	0.070	-23.10	52.00	0.032	-30.03	76.50	0.009	-40.92
-5.50	0.201	-13.96	6.75	0.181	-14.85	28.00	0.058	-24.73	52.50	0.040	-27.96	77.00	0.013	-38.06
-5.25	0.239	-12.43	7.00	0.163	-15.78	28.50	0.045	-27.03	53.00	0.050	-26.02	77.50	0.018	-35.14
-5.00	0.273	-11.29	7.25	0.156	-16.14	29.00	0.038	-28.40	53.50	0.059	-24.58	78.00	0.023	-32.96
-4.75	0.300	-10.46	7.50	0.162	-15.81	29.50	0.046	-26.84	54.00	0.065	-23.81	78.50	0.028	-31.21
-4.50	0.318	-9.97	7.75	0.174	-15.19	30.00	0.058	-24.81	54.50	0.067	-23.48	79.00	0.032	-30.03
-4.25	0.324	-9.79	8.00	0.189	-14.49	30.50	0.067	-23.54	55.00	0.066	-23.68	79.50	0.036	-29.00
-4.00	0.319	-9.94	8.25	0.199	-14.02	31.00	0.069	-23.22	55.50	0.061	-24.36	80.00	0.039	-28.29
-3.75	0.301	-10.43	8.50	0.206	-13.74	31.50	0.064	-23.88	56.00	0.053	-25.51	80.50	0.041	-27.74
-3.50	0.272	-11.32	8.75	0.206	-13.72	32.00	0.053	-25.51	56.50	0.043	-27.33	81.00	0.043	-27.43
-3.25	0.234	-12.62	9.00	0.200	-13.98	32.50	0.041	-27.74	57.00	0.034	-29.50	81.50	0.044	-27.13
-3.00	0.195	-14.22	9.25	0.188	-14.52	33.00	0.036	-29.00	57.50	0.028	-31.06	82.00	0.044	-27.13
-2.75	0.170	-15.39	9.50	0.172	-15.29	33.50	0.042	-27.54	58.00	0.030	-30.46	82.50	0.044	-27.13
-2.50	0.183	-14.75	9.75	0.152	-16.36	34.00	0.053	-25.51	58.50	0.038	-28.40	83.00	0.043	-27.33
-2.25	0.237	-12.51	10.00	0.132	-17.59	34.50	0.063	-24.08	59.00	0.049	-26.20	83.50	0.042	-27.54
-2.00	0.319	-9.92	10.50	0.103	-19.79	35.00	0.066	-23.61	59.50	0.059	-24.66	84.00	0.041	-27.85
-1.75	0.413	-7.68	11.00	0.105	-19.62	35.50	0.063	-24.08	60.00	0.067	-23.54	84.50	0.038	-28.40
-1.50	0.511	-5.83	11.50	0.127	-17.96	36.00	0.054	-25.43	60.50	0.072	-22.91	85.00	0.036	-29.00
-1.25	0.609	-4.31	12.00	0.143	-16.89	36.50	0.042	-27.54	61.00	0.074	-22.62	85.50	0.033	-29.63
-1.00	0.702	-3.07	12.50	0.143	-16.89	37.00	0.034	-29.50	61.50	0.073	-22.73	86.00	0.030	-30.60
-0.75	0.787	-2.08	13.00	0.126	-18.03	37.50	0.036	-29.00	62.00	0.070	-23.16	86.50	0.027	-31.54
-0.50	0.861	-1.30	13.50	0.098	-20.22	38.00	0.046	-26.74	62.50	0.063	-24.01	87.00	0.023	-32.96
-0.25	0.920	-0.72	14.00	0.076	-22.44	38.50	0.056	-25.04	63.00	0.054	-25.35	87.50	0.019	-34.66
0.00	0.964	-0.32	14.50	0.078	-22.21	39.00	0.063	-24.08	63.50	0.044	-27.13	88.00	0.015	-36.77
0.25	0.991	-0.08	15.00	0.096	-20.40	39.50	0.064	-23.94	64.00	0.034	-29.37	88.50	0.011	-39.58
0.50	1.000	0.00	15.50	0.111	-19.09	40.00	0.059	-24.58	64.50	0.026	-31.87	89.00	0.007	-43.74
0.75	0.992	-0.07	16.00	0.113	-18.98	40.50	0.050	-26.11	65.00	0.022	-33.15	89.50	0.003	-52.04
1.00	0.966	-0.30	16.50	0.102	-19.87	41.00	0.039	-28.18	65.50	0.027	-31.37	90.00	0.000	---
1.25	0.924	-0.69	17.00	0.081	-21.88	41.50	0.032	-29.90	66.00	0.037	-28.64			
1.50	0.869	-1.22	17.50	0.062	-24.22	42.00	0.035	-29.24	66.50	0.047	-26.56			
1.75	0.802	-1.92	18.00	0.061	-24.29	42.50	0.044	-27.13	67.00	0.058	-24.81			
2.00	0.727	-2.78	18.50	0.076	-22.44	43.00	0.054	-25.35	67.50	0.067	-23.54			

Azimuth Pattern

Type:	ATW-OX-V	**Polarization:**	Vertical
Directivity:	3.05 numeric (4.84 dB)	**Frequency:**	30 (ATSC)
Peak(s) at:		**Location:**	Zanesville, OH

NOTE: Pattern shape and directivity may vary with channel and mounting configuration.

Relative Field



Tabulated Data for Azimuth Pattern

Type: ATW-OX-V

Angle	Field	dB
0	0.788	-2.07
2	0.772	-2.25
4	0.755	-2.44
6	0.738	-2.64
8	0.721	-2.84
10	0.703	-3.06
12	0.686	-3.27
14	0.668	-3.50
16	0.650	-3.74
18	0.633	-3.97
20	0.615	-4.22
22	0.597	-4.48
24	0.580	-4.73
26	0.563	-4.99
28	0.546	-5.26
30	0.529	-5.53
32	0.512	-5.81
34	0.495	-6.11
36	0.479	-6.39
38	0.463	-6.69
40	0.447	-6.99
42	0.432	-7.29
44	0.417	-7.60
46	0.402	-7.92
48	0.387	-8.25
50	0.373	-8.57
52	0.359	-8.90
54	0.345	-9.24
56	0.332	-9.58
58	0.319	-9.92
60	0.306	-10.29
62	0.294	-10.63
64	0.281	-11.03
66	0.269	-11.40
68	0.258	-11.77
70	0.246	-12.18
72	0.235	-12.58
74	0.223	-13.03
76	0.212	-13.47
78	0.201	-13.94
80	0.191	-14.38
82	0.180	-14.89
84	0.170	-15.39
86	0.160	-15.92
88	0.151	-16.42
90	0.142	-16.95
92	0.133	-17.52
94	0.124	-18.13
96	0.117	-18.64
98	0.109	-19.25

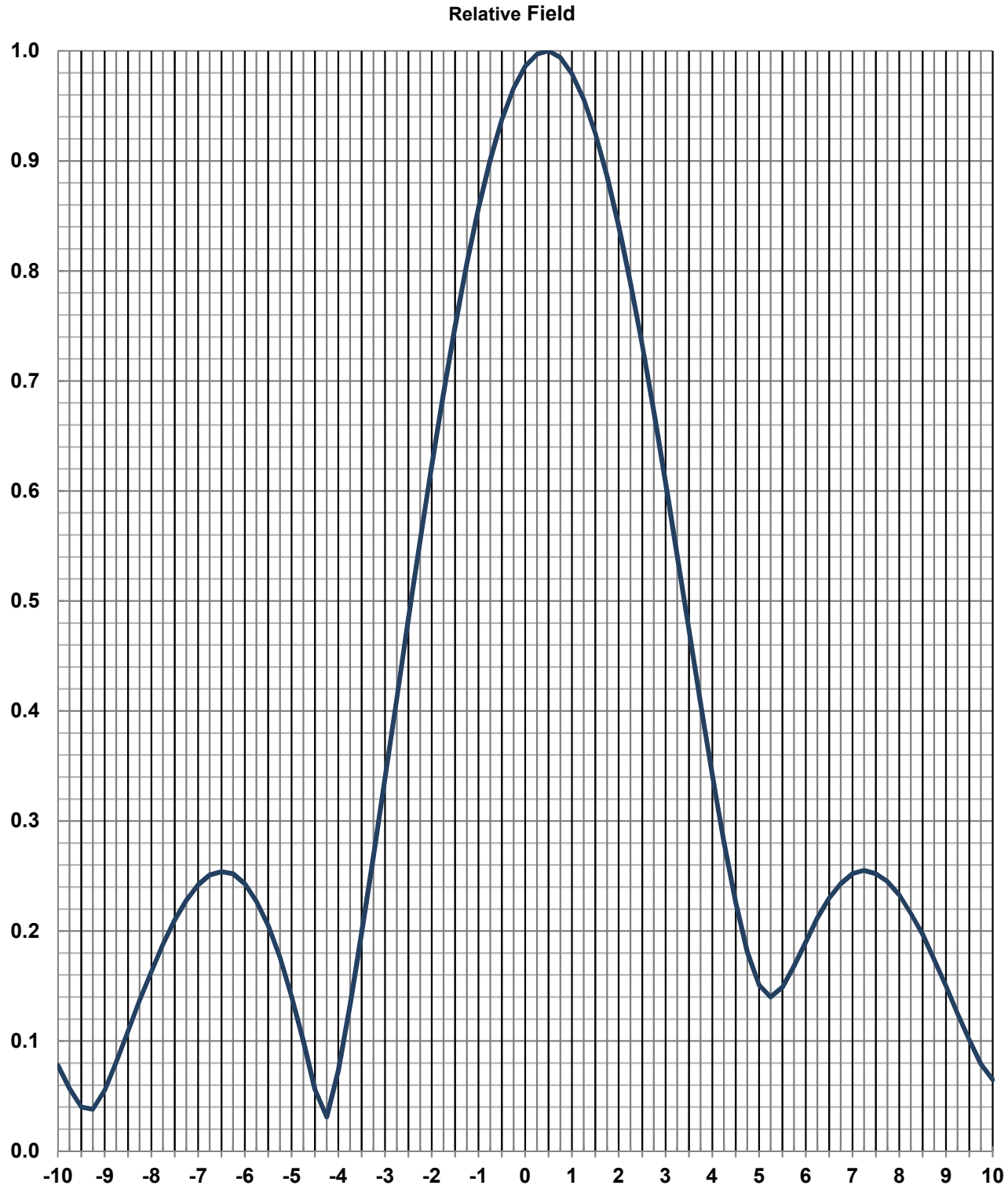
Angle	Field	dB
100	0.103	-19.74
102	0.097	-20.26
104	0.092	-20.72
106	0.088	-21.11
108	0.085	-21.41
110	0.083	-21.62
112	0.081	-21.83
114	0.081	-21.83
116	0.081	-21.83
118	0.081	-21.83
120	0.082	-21.72
122	0.083	-21.62
124	0.084	-21.51
126	0.085	-21.41
128	0.086	-21.31
130	0.087	-21.21
132	0.087	-21.21
134	0.088	-21.11
136	0.088	-21.11
138	0.087	-21.21
140	0.087	-21.21
142	0.086	-21.31
144	0.085	-21.41
146	0.084	-21.51
148	0.083	-21.62
150	0.082	-21.72
152	0.081	-21.83
154	0.080	-21.94
156	0.081	-21.83
158	0.081	-21.83
160	0.083	-21.62
162	0.085	-21.41
164	0.088	-21.11
166	0.092	-20.72
168	0.097	-20.26
170	0.103	-19.74
172	0.109	-19.25
174	0.117	-18.64
176	0.124	-18.13
178	0.133	-17.52
180	0.142	-16.95
182	0.151	-16.42
184	0.160	-15.92
186	0.170	-15.39
188	0.180	-14.89
190	0.191	-14.38
192	0.201	-13.94
194	0.212	-13.47
196	0.223	-13.03
198	0.235	-12.58

Angle	Field	dB
200	0.246	-12.18
202	0.258	-11.77
204	0.269	-11.40
206	0.281	-11.03
208	0.294	-10.63
210	0.306	-10.29
212	0.319	-9.92
214	0.332	-9.58
216	0.345	-9.24
218	0.359	-8.90
220	0.373	-8.57
222	0.387	-8.25
224	0.402	-7.92
226	0.417	-7.60
228	0.432	-7.29
230	0.447	-6.99
232	0.463	-6.69
234	0.479	-6.39
236	0.495	-6.11
238	0.512	-5.81
240	0.529	-5.53
242	0.546	-5.26
244	0.563	-4.99
246	0.580	-4.73
248	0.597	-4.48
250	0.615	-4.22
252	0.633	-3.97
254	0.650	-3.74
256	0.668	-3.50
258	0.686	-3.27
260	0.703	-3.06
262	0.721	-2.84
264	0.738	-2.64
266	0.755	-2.44
268	0.772	-2.25
270	0.788	-2.07
272	0.804	-1.89
274	0.820	-1.72
276	0.836	-1.56
278	0.851	-1.40
280	0.865	-1.26
282	0.879	-1.12
284	0.892	-0.99
286	0.905	-0.87
288	0.917	-0.75
290	0.928	-0.65
292	0.939	-0.55
294	0.949	-0.45
296	0.958	-0.37
298	0.966	-0.30

Angle	Field	dB
300	0.974	-0.23
302	0.980	-0.18
304	0.986	-0.12
306	0.990	-0.09
308	0.994	-0.05
310	0.997	-0.03
312	0.999	-0.01
314	1.000	0.00
316	1.000	0.00
318	0.999	-0.01
320	0.997	-0.03
322	0.994	-0.05
324	0.990	-0.09
326	0.986	-0.12
328	0.980	-0.18
330	0.974	-0.23
332	0.966	-0.30
334	0.958	-0.37
336	0.949	-0.45
338	0.939	-0.55
340	0.928	-0.65
342	0.917	-0.75
344	0.905	-0.87
346	0.892	-0.99
348	0.879	-1.12
350	0.865	-1.26
352	0.851	-1.40
354	0.836	-1.56
356	0.820	-1.72
358	0.804	-1.89
360	0.788	-2.07

Elevation Pattern

Type:	ATW13H2H		**Polarization:**	Vertical
Directivity:			**Frequency:**	30 (ATSC)
Main Lobe:	13.00 numeric	(11.14 dB)	**Location:**	Zanesville, OH
Horizontal:	12.64 numeric	(11.02 dB)	**Beam Tilt:**	0.50 degrees



Tabulated Data for Elevation Pattern

Type: ATW13H2H

-10 to 10 degrees in 0.25 degree increments.
10 to 90 degrees in 0.50 degree increments.

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-10.00	0.078	-22.16	2.25	0.789	-2.06	19.00	0.081	-21.83	43.50	0.019	-34.42	68.00	0.071	-22.97
-9.75	0.057	-24.88	2.50	0.733	-2.70	19.50	0.059	-24.58	44.00	0.017	-35.39	68.50	0.065	-23.74
-9.50	0.040	-27.96	2.75	0.672	-3.45	20.00	0.037	-28.64	44.50	0.027	-31.37	69.00	0.059	-24.58
-9.25	0.038	-28.40	3.00	0.607	-4.34	20.50	0.029	-30.75	45.00	0.039	-28.18	69.50	0.052	-25.68
-9.00	0.055	-25.19	3.25	0.541	-5.34	21.00	0.043	-27.33	45.50	0.050	-26.02	70.00	0.045	-26.94
-8.75	0.081	-21.83	3.50	0.474	-6.48	21.50	0.063	-24.01	46.00	0.059	-24.58	70.50	0.037	-28.64
-8.50	0.109	-19.25	3.75	0.407	-7.81	22.00	0.078	-22.16	46.50	0.066	-23.61	71.00	0.029	-30.75
-8.25	0.137	-17.27	4.00	0.342	-9.32	22.50	0.088	-21.11	47.00	0.070	-23.10	71.50	0.022	-33.15
-8.00	0.163	-15.76	4.25	0.281	-11.03	23.00	0.091	-20.82	47.50	0.071	-22.97	72.00	0.014	-37.08
-7.75	0.188	-14.52	4.50	0.226	-12.92	23.50	0.086	-21.31	48.00	0.068	-23.35	72.50	0.006	-44.44
-7.50	0.210	-13.56	4.75	0.181	-14.85	24.00	0.075	-22.50	48.50	0.063	-24.01	73.00	0.002	-53.98
-7.25	0.228	-12.84	5.00	0.151	-16.42	24.50	0.059	-24.58	49.00	0.055	-25.19	73.50	0.009	-40.92
-7.00	0.242	-12.32	5.25	0.140	-17.08	25.00	0.041	-27.74	49.50	0.046	-26.74	74.00	0.016	-35.92
-6.75	0.251	-12.01	5.50	0.149	-16.54	25.50	0.025	-32.04	50.00	0.034	-29.37	74.50	0.022	-33.15
-6.50	0.254	-11.90	5.75	0.168	-15.49	26.00	0.026	-31.70	50.50	0.023	-32.77	75.00	0.028	-31.06
-6.25	0.252	-11.97	6.00	0.190	-14.42	26.50	0.041	-27.74	51.00	0.015	-36.48	75.50	0.033	-29.63
-6.00	0.243	-12.29	6.25	0.212	-13.47	27.00	0.057	-24.88	51.50	0.018	-34.89	76.00	0.038	-28.40
-5.75	0.227	-12.88	6.50	0.230	-12.77	27.50	0.070	-23.10	52.00	0.027	-31.37	76.50	0.042	-27.54
-5.50	0.205	-13.76	6.75	0.243	-12.29	28.00	0.077	-22.27	52.50	0.039	-28.18	77.00	0.046	-26.74
-5.25	0.176	-15.09	7.00	0.252	-11.97	28.50	0.079	-22.05	53.00	0.049	-26.20	77.50	0.049	-26.20
-5.00	0.141	-17.02	7.25	0.255	-11.87	29.00	0.076	-22.38	53.50	0.058	-24.73	78.00	0.052	-25.68
-4.75	0.100	-20.00	7.50	0.252	-11.97	29.50	0.067	-23.48	54.00	0.066	-23.61	78.50	0.054	-25.35
-4.50	0.056	-25.04	7.75	0.245	-12.22	30.00	0.054	-25.35	54.50	0.071	-22.97	79.00	0.055	-25.19
-4.25	0.031	-30.17	8.00	0.233	-12.65	30.50	0.038	-28.40	55.00	0.074	-22.62	79.50	0.056	-25.04
-4.00	0.073	-22.73	8.25	0.216	-13.31	31.00	0.024	-32.40	55.50	0.074	-22.62	80.00	0.056	-25.04
-3.75	0.133	-17.52	8.50	0.197	-14.11	31.50	0.021	-33.56	56.00	0.073	-22.73	80.50	0.056	-25.04
-3.50	0.199	-14.02	8.75	0.174	-15.19	32.00	0.032	-29.90	56.50	0.069	-23.22	81.00	0.056	-25.04
-3.25	0.268	-11.44	9.00	0.150	-16.48	32.50	0.047	-26.56	57.00	0.063	-24.01	81.50	0.055	-25.19
-3.00	0.339	-9.40	9.25	0.125	-18.06	33.00	0.059	-24.58	57.50	0.056	-25.04	82.00	0.053	-25.51
-2.75	0.411	-7.72	9.50	0.101	-19.91	33.50	0.068	-23.35	58.00	0.047	-26.56	82.50	0.051	-25.85
-2.50	0.484	-6.30	9.75	0.079	-22.05	34.00	0.073	-22.73	58.50	0.037	-28.64	83.00	0.049	-26.20
-2.25	0.555	-5.11	10.00	0.065	-23.74	34.50	0.072	-22.85	59.00	0.026	-31.70	83.50	0.047	-26.56
-2.00	0.623	-4.11	10.50	0.069	-23.22	35.00	0.068	-23.35	59.50	0.017	-35.39	84.00	0.044	-27.13
-1.75	0.689	-3.24	11.00	0.099	-20.09	35.50	0.059	-24.58	60.00	0.012	-38.42	84.50	0.041	-27.74
-1.50	0.750	-2.50	11.50	0.128	-17.86	36.00	0.047	-26.56	60.50	0.018	-34.89	85.00	0.037	-28.64
-1.25	0.807	-1.86	12.00	0.147	-16.65	36.50	0.033	-29.63	61.00	0.027	-31.37	85.50	0.034	-29.37
-1.00	0.857	-1.34	12.50	0.153	-16.31	37.00	0.021	-33.56	61.50	0.038	-28.40	86.00	0.030	-30.46
-0.75	0.901	-0.91	13.00	0.145	-16.77	37.50	0.019	-34.42	62.00	0.047	-26.56	86.50	0.026	-31.70
-0.50	0.937	-0.57	13.50	0.127	-17.92	38.00	0.030	-30.46	62.50	0.056	-25.04	87.00	0.022	-33.15
-0.25	0.966	-0.30	14.00	0.099	-20.09	38.50	0.043	-27.33	63.00	0.064	-23.88	87.50	0.018	-34.89
0.00	0.986	-0.12	14.50	0.068	-23.35	39.00	0.054	-25.35	63.50	0.071	-22.97	88.00	0.013	-37.72
0.25	0.997	-0.03	15.00	0.042	-27.54	39.50	0.063	-24.01	64.00	0.076	-22.38	88.50	0.009	-40.92
0.50	1.000	0.00	15.50	0.043	-27.33	40.00	0.069	-23.22	64.50	0.080	-21.94	89.00	0.004	-47.96
0.75	0.994	-0.05	16.00	0.065	-23.74	40.50	0.070	-23.10	65.00	0.083	-21.62	89.50	0.000	---
1.00	0.979	-0.18	16.50	0.088	-21.11	41.00	0.068	-23.35	65.50	0.084	-21.51	90.00	0.003	-50.46
1.25	0.956	-0.39	17.00	0.105	-19.58	41.50	0.063	-24.01	66.00	0.084	-21.51			
1.50	0.925	-0.68	17.50	0.112	-19.02	42.00	0.054	-25.35	66.50	0.082	-21.72			
1.75	0.886	-1.05	18.00	0.110	-19.17	42.50	0.042	-27.54	67.00	0.079	-22.05			
2.00	0.841	-1.50	18.50	0.099	-20.09	43.00	0.030	-30.46	67.50	0.076	-22.38			