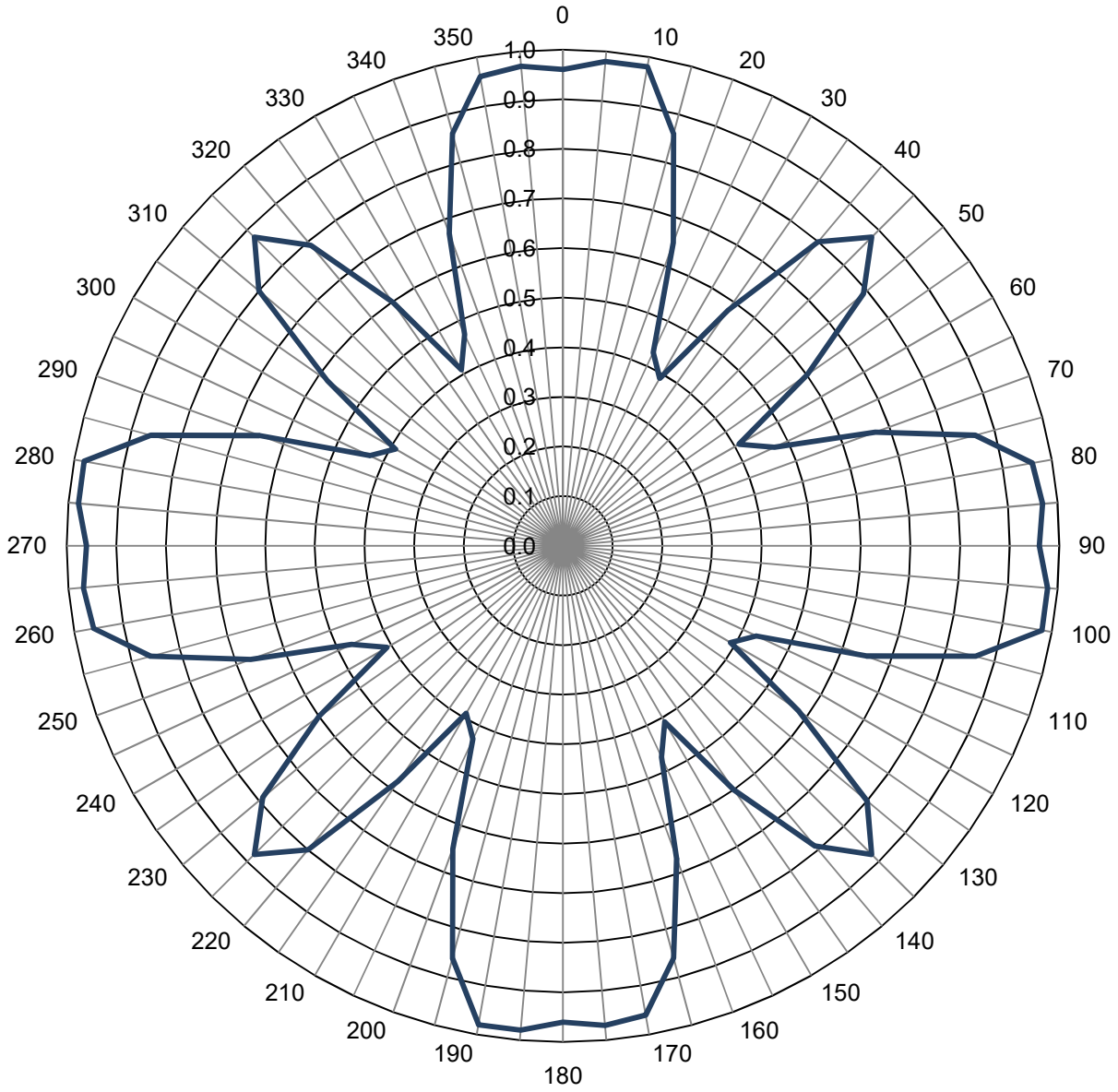
Azimuth Pattern

Type:	ETVP4O-H	**Polarization:**	Horizontal
Directivity:	1.70 numeric (2.31 dB)	**Frequency:**	9 (ATSC)
Peak(s) at:		**Location:**	Charlotte, NC

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

Relative Field



Tabulated Data for Azimuth Pattern

Type: ETVP4O-H

Angle	Field	dB
0	0.960	-0.35
2	0.970	-0.26
4	0.980	-0.18
6	1.000	0.00
8	1.000	0.00
10	0.980	-0.18
12	0.940	-0.54
14	0.900	-0.92
16	0.820	-1.72
18	0.740	-2.62
20	0.650	-3.74
22	0.560	-5.04
24	0.480	-6.38
26	0.410	-7.74
28	0.380	-8.40
30	0.390	-8.18
32	0.450	-6.94
34	0.540	-5.35
36	0.640	-3.88
38	0.730	-2.73
40	0.800	-1.94
42	0.850	-1.41
44	0.880	-1.11
46	0.880	-1.11
48	0.840	-1.51
50	0.790	-2.05
52	0.730	-2.73
54	0.640	-3.88
56	0.550	-5.19
58	0.480	-6.38
60	0.410	-7.74
62	0.410	-7.74
64	0.440	-7.13
66	0.500	-6.02
68	0.590	-4.58
70	0.670	-3.48
72	0.760	-2.38
74	0.830	-1.62
76	0.890	-1.01
78	0.930	-0.63
80	0.960	-0.35
82	0.970	-0.26
84	0.980	-0.18
86	0.970	-0.26
88	0.960	-0.35
90	0.960	-0.35
92	0.970	-0.26
94	0.980	-0.18
96	1.000	0.00
98	1.000	0.00

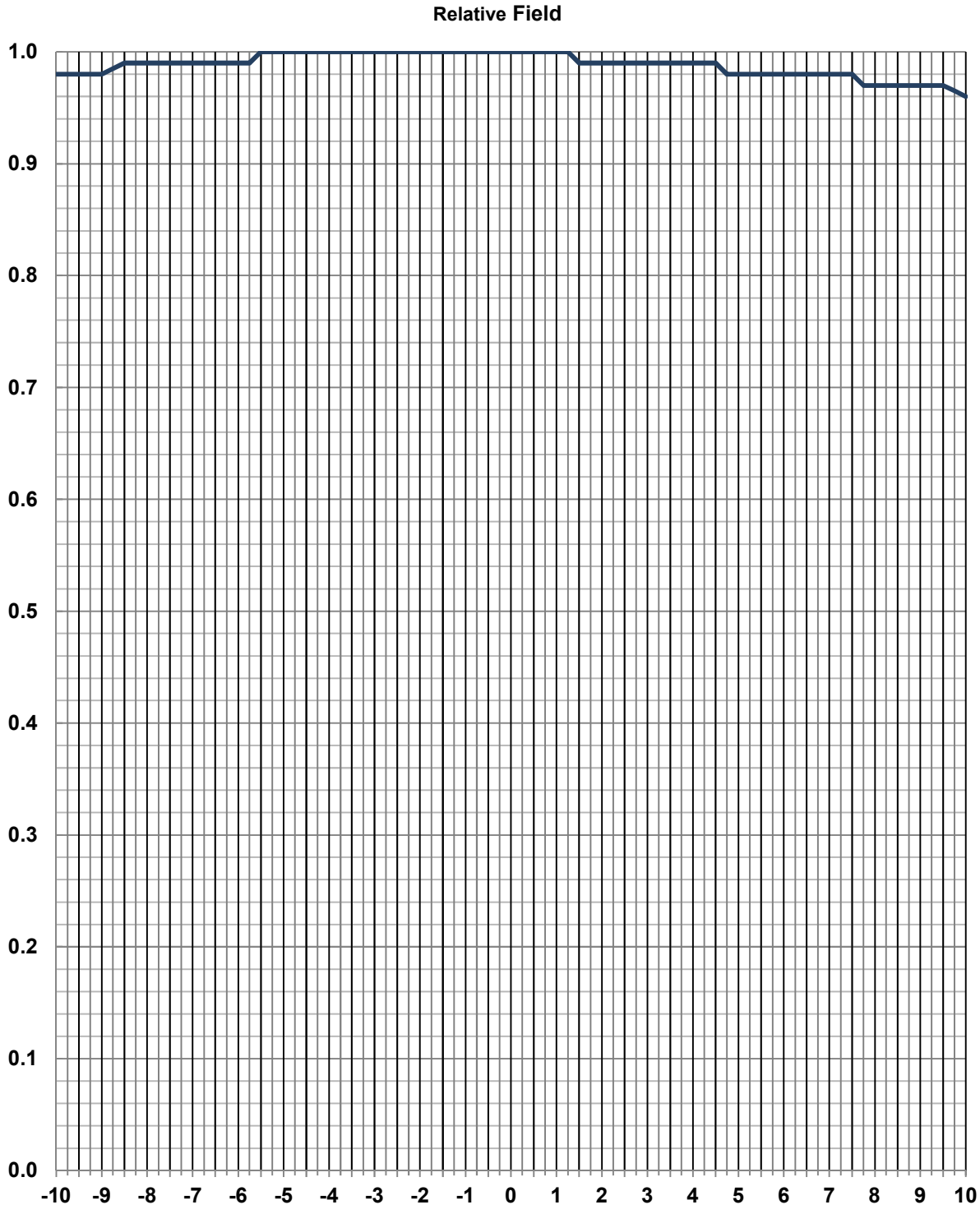
Angle	Field	dB
100	0.980	-0.18
102	0.940	-0.54
104	0.900	-0.92
106	0.820	-1.72
108	0.740	-2.62
110	0.650	-3.74
112	0.560	-5.04
114	0.480	-6.38
116	0.410	-7.74
118	0.380	-8.40
120	0.390	-8.18
122	0.450	-6.94
124	0.540	-5.35
126	0.640	-3.88
128	0.730	-2.73
130	0.800	-1.94
132	0.850	-1.41
134	0.880	-1.11
136	0.880	-1.11
138	0.840	-1.51
140	0.790	-2.05
142	0.730	-2.73
144	0.640	-3.88
146	0.550	-5.19
148	0.480	-6.38
150	0.410	-7.74
152	0.410	-7.74
154	0.440	-7.13
156	0.500	-6.02
158	0.590	-4.58
160	0.670	-3.48
162	0.760	-2.38
164	0.830	-1.62
166	0.890	-1.01
168	0.930	-0.63
170	0.960	-0.35
172	0.970	-0.26
174	0.980	-0.18
176	0.970	-0.26
178	0.960	-0.35
180	0.960	-0.35
182	0.970	-0.26
184	0.980	-0.18
186	1.000	0.00
188	1.000	0.00
190	0.980	-0.18
192	0.940	-0.54
194	0.900	-0.92
196	0.820	-1.72
198	0.740	-2.62

Angle	Field	dB
200	0.650	-3.74
202	0.560	-5.04
204	0.480	-6.38
206	0.410	-7.74
208	0.380	-8.40
210	0.390	-8.18
212	0.450	-6.94
214	0.540	-5.35
216	0.640	-3.88
218	0.730	-2.73
220	0.800	-1.94
222	0.850	-1.41
224	0.880	-1.11
226	0.880	-1.11
228	0.840	-1.51
230	0.790	-2.05
232	0.730	-2.73
234	0.640	-3.88
236	0.550	-5.19
238	0.480	-6.38
240	0.410	-7.74
242	0.410	-7.74
244	0.440	-7.13
246	0.500	-6.02
248	0.590	-4.58
250	0.670	-3.48
252	0.760	-2.38
254	0.830	-1.62
256	0.890	-1.01
258	0.930	-0.63
260	0.960	-0.35
262	0.970	-0.26
264	0.980	-0.18
266	0.970	-0.26
268	0.960	-0.35
270	0.960	-0.35
272	0.970	-0.26
274	0.980	-0.18
276	1.000	0.00
278	1.000	0.00
280	0.980	-0.18
282	0.940	-0.54
284	0.900	-0.92
286	0.820	-1.72
288	0.740	-2.62
290	0.650	-3.74
292	0.560	-5.04
294	0.480	-6.38
296	0.410	-7.74
298	0.380	-8.40

Angle	Field	dB
300	0.390	-8.18
302	0.450	-6.94
304	0.540	-5.35
306	0.640	-3.88
308	0.730	-2.73
310	0.800	-1.94
312	0.850	-1.41
314	0.880	-1.11
316	0.880	-1.11
318	0.840	-1.51
320	0.790	-2.05
322	0.730	-2.73
324	0.640	-3.88
326	0.550	-5.19
328	0.480	-6.38
330	0.410	-7.74
332	0.410	-7.74
334	0.440	-7.13
336	0.500	-6.02
338	0.590	-4.58
340	0.670	-3.48
342	0.760	-2.38
344	0.830	-1.62
346	0.890	-1.01
348	0.930	-0.63
350	0.960	-0.35
352	0.970	-0.26
354	0.980	-0.18
356	0.970	-0.26
358	0.960	-0.35
360	0.960	-0.35

Elevation Pattern

Type:	ETV-1U1-H		**Polarization:**	Horizontal
Directivity:			**Frequency:**	9 (ATSC)
Main Lobe:	1.03 numeric	(0.14 dB)	**Location:**	Charlotte, NC
Horizontal:	1.03 numeric	(0.14 dB)	**Beam Tilt:**	0.00 degrees



Tabulated Data for Elevation Pattern

Type: ETV-1U1-H

-5 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	0.980	-0.18	2.25	0.990	-0.09	19.00	0.860	-1.31	43.50	0.370	-8.64	68.00	0.190	-14.42
-9.75	0.980	-0.18	2.50	0.990	-0.09	19.50	0.850	-1.41	44.00	0.370	-8.64	68.50	0.180	-14.89
-9.50	0.980	-0.18	2.75	0.990	-0.09	20.00	0.840	-1.51	44.50	0.360	-8.87	69.00	0.180	-14.89
-9.25	0.980	-0.18	3.00	0.990	-0.09	20.50	0.840	-1.51	45.00	0.350	-9.12	69.50	0.170	-15.39
-9.00	0.980	-0.18	3.25	0.990	-0.09	21.00	0.830	-1.62	45.50	0.340	-9.37	70.00	0.170	-15.39
-8.75	0.985	-0.13	3.50	0.990	-0.09	21.50	0.820	-1.72	46.00	0.340	-9.37	70.50	0.160	-15.92
-8.50	0.990	-0.09	3.75	0.990	-0.09	22.00	0.820	-1.72	46.50	0.330	-9.63	71.00	0.160	-15.92
-8.25	0.990	-0.09	4.00	0.990	-0.09	22.50	0.800	-1.94	47.00	0.320	-9.90	71.50	0.160	-15.92
-8.00	0.990	-0.09	4.25	0.990	-0.09	23.00	0.790	-2.05	47.50	0.320	-9.90	72.00	0.160	-15.92
-7.75	0.990	-0.09	4.50	0.990	-0.09	23.50	0.780	-2.16	48.00	0.320	-9.90	72.50	0.160	-15.92
-7.50	0.990	-0.09	4.75	0.980	-0.18	24.00	0.780	-2.16	48.50	0.310	-10.17	73.00	0.160	-15.92
-7.25	0.990	-0.09	5.00	0.980	-0.18	24.50	0.770	-2.27	49.00	0.310	-10.17	73.50	0.160	-15.92
-7.00	0.990	-0.09	5.25	0.980	-0.18	25.00	0.760	-2.38	49.50	0.310	-10.17	74.00	0.160	-15.92
-6.75	0.990	-0.09	5.50	0.980	-0.18	25.50	0.750	-2.50	50.00	0.310	-10.17	74.50	0.150	-16.48
-6.50	0.990	-0.09	5.75	0.980	-0.18	26.00	0.750	-2.50	50.50	0.300	-10.46	75.00	0.150	-16.48
-6.25	0.990	-0.09	6.00	0.980	-0.18	26.50	0.730	-2.73	51.00	0.300	-10.46	75.50	0.150	-16.48
-6.00	0.990	-0.09	6.25	0.980	-0.18	27.00	0.720	-2.85	51.50	0.290	-10.75	76.00	0.150	-16.48
-5.75	0.990	-0.09	6.50	0.980	-0.18	27.50	0.710	-2.97	52.00	0.290	-10.75	76.50	0.150	-16.48
-5.50	1.000	0.00	6.75	0.980	-0.18	28.00	0.700	-3.10	52.50	0.290	-10.75	77.00	0.150	-16.48
-5.25	1.000	0.00	7.00	0.980	-0.18	28.50	0.690	-3.22	53.00	0.280	-11.06	77.50	0.150	-16.48
-5.00	1.000	0.00	7.25	0.980	-0.18	29.00	0.680	-3.35	53.50	0.280	-11.06	78.00	0.150	-16.48
-4.75	1.000	0.00	7.50	0.980	-0.18	29.50	0.660	-3.61	54.00	0.280	-11.06	78.50	0.150	-16.48
-4.50	1.000	0.00	7.75	0.970	-0.26	30.00	0.650	-3.74	54.50	0.280	-11.06	79.00	0.150	-16.48
-4.25	1.000	0.00	8.00	0.970	-0.26	30.50	0.640	-3.88	55.00	0.270	-11.37	79.50	0.150	-16.48
-4.00	1.000	0.00	8.25	0.970	-0.26	31.00	0.630	-4.01	55.50	0.270	-11.37	80.00	0.150	-16.48
-3.75	1.000	0.00	8.50	0.970	-0.26	31.50	0.620	-4.15	56.00	0.270	-11.37	80.50	0.160	-15.92
-3.50	1.000	0.00	8.75	0.970	-0.26	32.00	0.610	-4.29	56.50	0.270	-11.37	81.00	0.160	-15.92
-3.25	1.000	0.00	9.00	0.970	-0.26	32.50	0.600	-4.44	57.00	0.260	-11.70	81.50	0.160	-15.92
-3.00	1.000	0.00	9.25	0.970	-0.26	33.00	0.590	-4.58	57.50	0.260	-11.70	82.00	0.160	-15.92
-2.75	1.000	0.00	9.50	0.970	-0.26	33.50	0.580	-4.73	58.00	0.260	-11.70	82.50	0.160	-15.92
-2.50	1.000	0.00	9.75	0.965	-0.31	34.00	0.570	-4.88	58.50	0.260	-11.70	83.00	0.170	-15.39
-2.25	1.000	0.00	10.00	0.960	-0.35	34.50	0.550	-5.19	59.00	0.250	-12.04	83.50	0.170	-15.39
-2.00	1.000	0.00	10.50	0.960	-0.35	35.00	0.540	-5.35	59.50	0.250	-12.04	84.00	0.180	-14.89
-1.75	1.000	0.00	11.00	0.950	-0.45	35.50	0.530	-5.51	60.00	0.250	-12.04	84.50	0.180	-14.89
-1.50	1.000	0.00	11.50	0.950	-0.45	36.00	0.510	-5.85	60.50	0.240	-12.40	85.00	0.190	-14.42
-1.25	1.000	0.00	12.00	0.940	-0.54	36.50	0.500	-6.02	61.00	0.240	-12.40	85.50	0.200	-13.98
-1.00	1.000	0.00	12.50	0.940	-0.54	37.00	0.490	-6.20	61.50	0.240	-12.40	86.00	0.200	-13.98
-0.75	1.000	0.00	13.00	0.930	-0.63	37.50	0.490	-6.20	62.00	0.240	-12.40	86.50	0.210	-13.56
-0.50	1.000	0.00	13.50	0.930	-0.63	38.00	0.480	-6.38	62.50	0.230	-12.77	87.00	0.210	-13.56
-0.25	1.000	0.00	14.00	0.920	-0.72	38.50	0.460	-6.74	63.00	0.230	-12.77	87.50	0.220	-13.15
0.00	1.000	0.00	14.50	0.920	-0.72	39.00	0.450	-6.94	63.50	0.220	-13.15	88.00	0.230	-12.77
0.25	1.000	0.00	15.00	0.910	-0.82	39.50	0.440	-7.13	64.00	0.220	-13.15	88.50	0.230	-12.77
0.50	1.000	0.00	15.50	0.910	-0.82	40.00	0.440	-7.13	64.50	0.210	-13.56	89.00	0.230	-12.77
0.75	1.000	0.00	16.00	0.900	-0.92	40.50	0.420	-7.54	65.00	0.210	-13.56	89.50	0.240	-12.40
1.00	1.000	0.00	16.50	0.900	-0.92	41.00	0.410	-7.74	65.50	0.200	-13.98	90.00	0.240	-12.40
1.25	1.000	0.00	17.00	0.890	-1.01	41.50	0.400	-7.96	66.00	0.200	-13.98			
1.50	0.990	-0.09	17.50	0.880	-1.11	42.00	0.390	-8.18	66.50	0.200	-13.98			
1.75	0.990	-0.09	18.00	0.870	-1.21	42.50	0.380	-8.40	67.00	0.200	-13.98			
2.00	0.990	-0.09	18.50	0.860	-1.31	43.00	0.380	-8.40	67.50	0.190	-14.42			