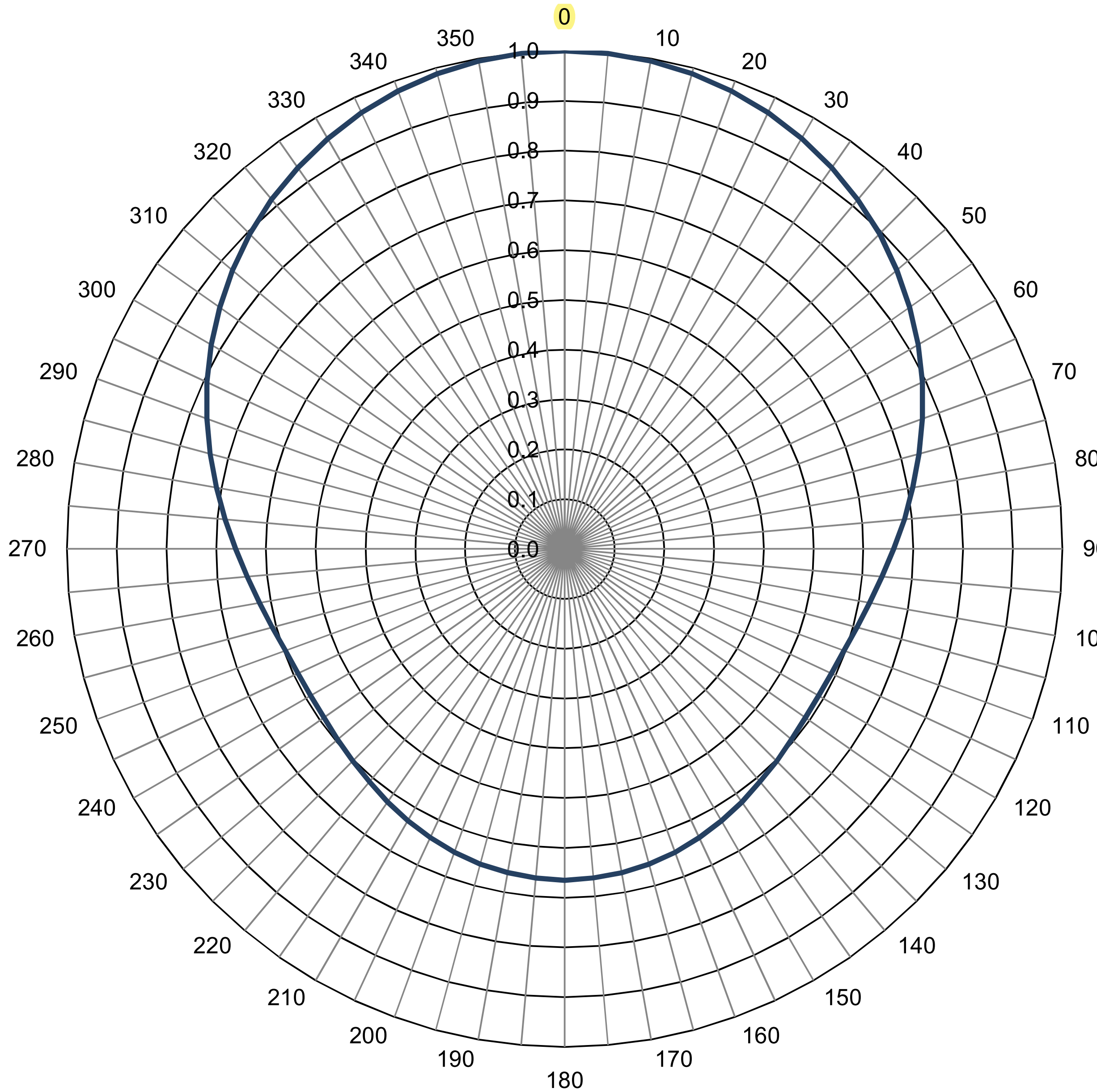
Azimuth Pattern

Type:	ALV-9-OC	**Polarization:**	Horizontal
Directivity:	1.72 numeric (2.37 dB)	**Channel:**	9 (ATSC)
Peak(s) at:		**Location:**	Charlotte, NC

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

Relative Field

Rotated to 255°True



Note: CH11 pattern will differ from CH9 pattern shown above. ERI does not warrant the final azimuth pattern for CH11.

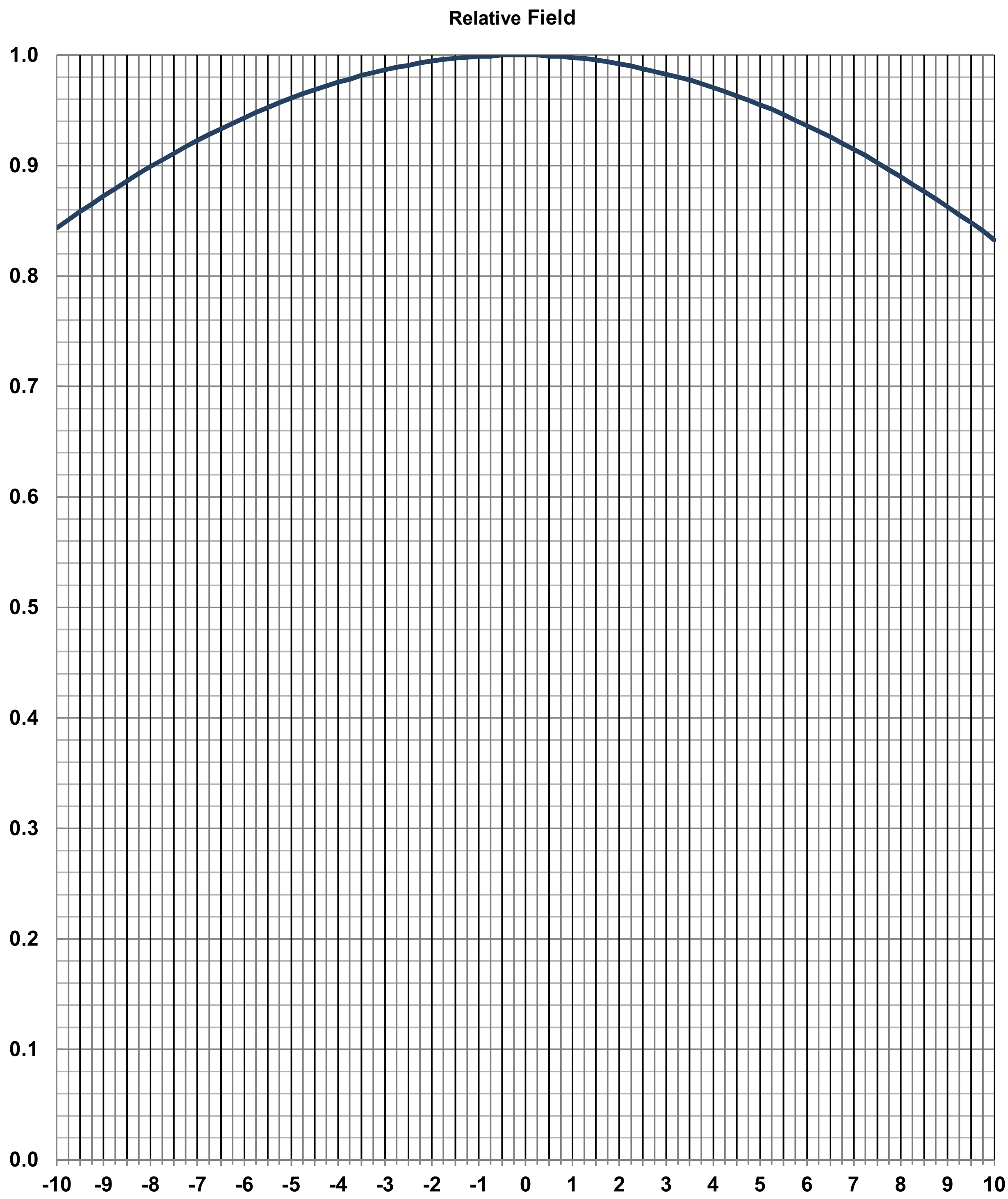
Tabulated Data for Azimuth Pattern

Type: ALV-9-OC

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	1.000	0.00	100	0.622	-4.12	200	0.648	-3.77	300	0.820	-1.72
2	1.000	0.00	102	0.616	-4.21	202	0.644	-3.82	302	0.831	-1.61
4	0.999	-0.01	104	0.610	-4.29	204	0.641	-3.86	304	0.841	-1.50
6	0.998	-0.02	106	0.605	-4.36	206	0.637	-3.92	306	0.851	-1.40
8	0.997	-0.03	108	0.601	-4.42	208	0.634	-3.96	308	0.861	-1.30
10	0.995	-0.04	110	0.597	-4.48	210	0.630	-4.01	310	0.871	-1.20
12	0.992	-0.07	112	0.595	-4.51	212	0.626	-4.07	312	0.881	-1.10
14	0.989	-0.10	114	0.592	-4.55	214	0.622	-4.12	314	0.890	-1.01
16	0.986	-0.12	116	0.591	-4.57	216	0.618	-4.18	316	0.899	-0.92
18	0.983	-0.15	118	0.589	-4.60	218	0.614	-4.24	318	0.908	-0.84
20	0.979	-0.18	120	0.589	-4.60	220	0.610	-4.29	320	0.916	-0.76
22	0.974	-0.23	122	0.589	-4.60	222	0.607	-4.34	322	0.924	-0.69
24	0.969	-0.27	124	0.590	-4.58	224	0.603	-4.39	324	0.932	-0.61
26	0.964	-0.32	126	0.591	-4.57	226	0.600	-4.44	326	0.939	-0.55
28	0.958	-0.37	128	0.593	-4.54	228	0.597	-4.48	328	0.946	-0.48
30	0.952	-0.43	130	0.595	-4.51	230	0.595	-4.51	330	0.952	-0.43
32	0.946	-0.48	132	0.597	-4.48	232	0.593	-4.54	332	0.958	-0.37
34	0.939	-0.55	134	0.600	-4.44	234	0.591	-4.57	334	0.964	-0.32
36	0.932	-0.61	136	0.603	-4.39	236	0.590	-4.58	336	0.969	-0.27
38	0.924	-0.69	138	0.607	-4.34	238	0.589	-4.60	338	0.974	-0.23
40	0.916	-0.76	140	0.610	-4.29	240	0.589	-4.60	340	0.979	-0.18
42	0.908	-0.84	142	0.614	-4.24	242	0.589	-4.60	342	0.983	-0.15
44	0.899	-0.92	144	0.618	-4.18	244	0.591	-4.57	344	0.986	-0.12
46	0.890	-1.01	146	0.622	-4.12	246	0.592	-4.55	346	0.989	-0.10
48	0.881	-1.10	148	0.626	-4.07	248	0.595	-4.51	348	0.992	-0.07
50	0.871	-1.20	150	0.630	-4.01	250	0.597	-4.48	350	0.995	-0.04
52	0.861	-1.30	152	0.634	-3.96	252	0.601	-4.42	352	0.997	-0.03
54	0.851	-1.40	154	0.637	-3.92	254	0.605	-4.36	354	0.998	-0.02
56	0.841	-1.50	156	0.641	-3.86	256	0.610	-4.29	356	0.999	-0.01
58	0.831	-1.61	158	0.644	-3.82	258	0.616	-4.21	358	1.000	0.00
60	0.820	-1.72	160	0.648	-3.77	260	0.622	-4.12	360	1.000	0.00
62	0.809	-1.84	162	0.651	-3.73	262	0.629	-4.03			
64	0.798	-1.96	164	0.654	-3.69	264	0.636	-3.93			
66	0.787	-2.08	166	0.656	-3.66	266	0.644	-3.82			
68	0.776	-2.20	168	0.658	-3.64	268	0.652	-3.72			
70	0.765	-2.33	170	0.660	-3.61	270	0.661	-3.60			
72	0.754	-2.45	172	0.662	-3.58	272	0.670	-3.48			
74	0.743	-2.58	174	0.663	-3.57	274	0.680	-3.35			
76	0.732	-2.71	176	0.664	-3.56	276	0.690	-3.22			
78	0.721	-2.84	178	0.664	-3.56	278	0.700	-3.10			
80	0.710	-2.97	180	0.665	-3.54	280	0.710	-2.97			
82	0.700	-3.10	182	0.664	-3.56	282	0.721	-2.84			
84	0.690	-3.22	184	0.664	-3.56	284	0.732	-2.71			
86	0.680	-3.35	186	0.663	-3.57	286	0.743	-2.58			
88	0.670	-3.48	188	0.662	-3.58	288	0.754	-2.45			
90	0.661	-3.60	190	0.660	-3.61	290	0.765	-2.33			
92	0.652	-3.72	192	0.658	-3.64	292	0.776	-2.20			
94	0.644	-3.82	194	0.656	-3.66	294	0.787	-2.08			
96	0.636	-3.93	196	0.654	-3.69	296	0.798	-1.96			
98	0.629	-4.03	198	0.651	-3.73	298	0.809	-1.84			

Elevation Pattern

Type:	ALV2V0		**Polarization:**	Horizontal
Directivity:			**Channel:**	9 (ATSC)
Main Lobe:	2.30 numeric	(3.62 dB)	**Location:**	Charlotte, NC
Horizontal:	2.30 numeric	(3.62 dB)	**Beam Tilt:**	0.00 degrees



Note: CH11 pattern will differ from CH9 pattern shown above. ERI does not warrant the final elevation pattern for CH11.

Tabulated Data for Elevation Pattern

Type: ALV2V0

-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	0.844	-1.48	2.25	0.990	-0.09	19.00	0.480	-6.38	43.50	0.353	-9.04	68.00	0.292	-10.71
-9.75	0.851	-1.40	2.50	0.988	-0.11	19.50	0.457	-6.80	44.00	0.360	-8.87	68.50	0.286	-10.89
-9.50	0.859	-1.33	2.75	0.985	-0.13	20.00	0.435	-7.23	44.50	0.366	-8.73	69.00	0.280	-11.07
-9.25	0.865	-1.26	3.00	0.983	-0.15	20.50	0.413	-7.69	45.00	0.372	-8.60	69.50	0.274	-11.26
-9.00	0.873	-1.18	3.25	0.980	-0.18	21.00	0.390	-8.18	45.50	0.378	-8.46	70.00	0.267	-11.47
-8.75	0.879	-1.12	3.50	0.978	-0.20	21.50	0.368	-8.69	46.00	0.383	-8.35	70.50	0.261	-11.68
-8.50	0.886	-1.05	3.75	0.974	-0.23	22.00	0.345	-9.26	46.50	0.387	-8.26	71.00	0.254	-11.90
-8.25	0.893	-0.98	4.00	0.971	-0.26	22.50	0.322	-9.84	47.00	0.391	-8.17	71.50	0.248	-12.13
-8.00	0.899	-0.92	4.25	0.967	-0.29	23.00	0.300	-10.46	47.50	0.395	-8.08	72.00	0.242	-12.34
-7.75	0.905	-0.87	4.50	0.963	-0.33	23.50	0.278	-11.13	48.00	0.398	-8.01	72.50	0.235	-12.60
-7.50	0.911	-0.81	4.75	0.959	-0.36	24.00	0.255	-11.87	48.50	0.400	-7.96	73.00	0.228	-12.84
-7.25	0.917	-0.75	5.00	0.955	-0.40	24.50	0.233	-12.65	49.00	0.403	-7.90	73.50	0.222	-13.09
-7.00	0.923	-0.70	5.25	0.951	-0.44	25.00	0.211	-13.51	49.50	0.405	-7.86	74.00	0.215	-13.37
-6.75	0.928	-0.65	5.50	0.946	-0.48	25.50	0.190	-14.45	50.00	0.406	-7.83	74.50	0.208	-13.64
-6.50	0.933	-0.60	5.75	0.941	-0.53	26.00	0.168	-15.49	50.50	0.408	-7.79	75.00	0.202	-13.91
-6.25	0.938	-0.56	6.00	0.936	-0.57	26.50	0.147	-16.68	51.00	0.409	-7.78	75.50	0.195	-14.22
-6.00	0.943	-0.51	6.25	0.931	-0.62	27.00	0.125	-18.06	51.50	0.409	-7.77	76.00	0.188	-14.52
-5.75	0.948	-0.46	6.50	0.926	-0.67	27.50	0.104	-19.66	52.00	0.409	-7.77	76.50	0.182	-14.82
-5.50	0.953	-0.42	6.75	0.920	-0.72	28.00	0.084	-21.51	52.50	0.409	-7.77	77.00	0.175	-15.16
-5.25	0.957	-0.38	7.00	0.915	-0.78	28.50	0.064	-23.94	53.00	0.409	-7.77	77.50	0.168	-15.52
-5.00	0.961	-0.35	7.25	0.909	-0.83	29.00	0.044	-27.23	53.50	0.408	-7.79	78.00	0.161	-15.86
-4.75	0.965	-0.31	7.50	0.903	-0.89	29.50	0.024	-32.40	54.00	0.407	-7.81	78.50	0.154	-16.25
-4.50	0.969	-0.28	7.75	0.896	-0.95	30.00	0.005	-46.02	54.50	0.406	-7.83	79.00	0.148	-16.62
-4.25	0.972	-0.25	8.00	0.890	-1.01	30.50	0.015	-36.77	55.00	0.404	-7.87	79.50	0.141	-17.05
-4.00	0.976	-0.22	8.25	0.883	-1.08	31.00	0.033	-29.63	55.50	0.403	-7.90	80.00	0.134	-17.49
-3.75	0.978	-0.19	8.50	0.877	-1.14	31.50	0.052	-25.76	56.00	0.400	-7.96	80.50	0.127	-17.96
-3.50	0.982	-0.16	8.75	0.870	-1.21	32.00	0.069	-23.22	56.50	0.398	-8.00	81.00	0.120	-18.42
-3.25	0.984	-0.14	9.00	0.863	-1.28	32.50	0.087	-21.26	57.00	0.395	-8.07	81.50	0.113	-18.94
-3.00	0.987	-0.12	9.25	0.855	-1.36	33.00	0.104	-19.70	57.50	0.393	-8.12	82.00	0.107	-19.45
-2.75	0.989	-0.10	9.50	0.849	-1.43	33.50	0.120	-18.42	58.00	0.390	-8.19	82.50	0.100	-20.04
-2.50	0.991	-0.08	9.75	0.841	-1.50	34.00	0.137	-17.30	58.50	0.386	-8.27	83.00	0.093	-20.68
-2.25	0.993	-0.06	10.00	0.833	-1.59	34.50	0.152	-16.39	59.00	0.383	-8.35	83.50	0.086	-21.36
-2.00	0.995	-0.05	10.50	0.817	-1.76	35.00	0.168	-15.52	59.50	0.379	-8.44	84.00	0.079	-22.10
-1.75	0.996	-0.03	11.00	0.801	-1.93	35.50	0.182	-14.82	60.00	0.375	-8.53	84.50	0.072	-22.85
-1.50	0.997	-0.03	11.50	0.784	-2.12	36.00	0.197	-14.13	60.50	0.371	-8.62	85.00	0.065	-23.74
-1.25	0.998	-0.02	12.00	0.766	-2.32	36.50	0.210	-13.56	61.00	0.367	-8.72	85.50	0.059	-24.66
-1.00	0.999	-0.01	12.50	0.748	-2.52	37.00	0.224	-13.01	61.50	0.362	-8.84	86.00	0.052	-25.76
-0.75	0.999	-0.01	13.00	0.730	-2.74	37.50	0.236	-12.54	62.00	0.358	-8.93	86.50	0.045	-27.03
-0.50	1.000	0.00	13.50	0.711	-2.97	38.00	0.249	-12.09	62.50	0.353	-9.06	87.00	0.038	-28.52
-0.25	1.000	0.00	14.00	0.691	-3.21	38.50	0.261	-11.68	63.00	0.348	-9.18	87.50	0.031	-30.17
0.00	1.000	0.00	14.50	0.671	-3.47	39.00	0.272	-11.31	63.50	0.343	-9.31	88.00	0.024	-32.40
0.25	1.000	0.00	15.00	0.651	-3.73	39.50	0.283	-10.96	64.00	0.338	-9.43	88.50	0.017	-35.39
0.50	0.999	-0.01	15.50	0.631	-4.01	40.00	0.293	-10.66	64.50	0.332	-9.59	89.00	0.011	-39.58
0.75	0.999	-0.01	16.00	0.610	-4.29	40.50	0.303	-10.37	65.00	0.327	-9.72	89.50	0.004	-49.12
1.00	0.998	-0.02	16.50	0.589	-4.61	41.00	0.313	-10.09	65.50	0.321	-9.88	90.00	0.000	---
1.25	0.997	-0.03	17.00	0.567	-4.93	41.50	0.322	-9.84	66.00	0.316	-10.02			
1.50	0.996	-0.04	17.50	0.546	-5.26	42.00	0.331	-9.62	66.50	0.310	-10.19			
1.75	0.994	-0.05	18.00	0.524	-5.61	42.50	0.339	-9.41	67.00	0.304	-10.36			
2.00	0.992	-0.07	18.50	0.502	-5.99	43.00	0.346	-9.22	67.50	0.298	-10.53			