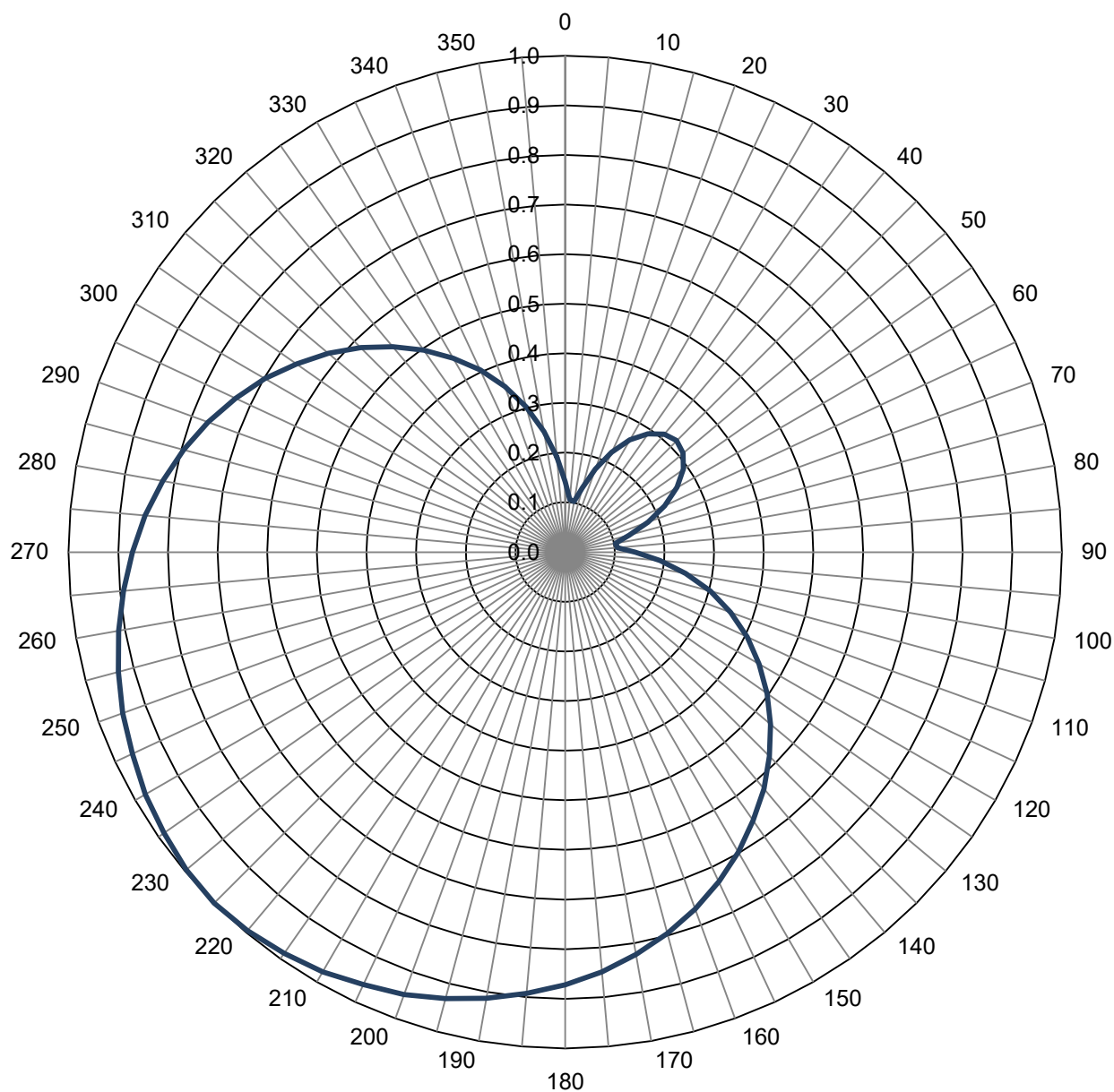


Azimuth Pattern

Type:	ALPL-M	Polarization:	Horizontal
Directivity:	2.40 numeric (3.80 dB)	Channel:	30 (ATSC)
Peak(s) at:		Location:	Fresno, CA
		NOTE: Pattern shape and directivity may vary with channel and mounting configuration.	

Relative Field



Tabulated Data for Azimuth Pattern

Type: ALPL-M

Angle	Field	dB
0	0.142	-16.98
2	0.124	-18.12
4	0.111	-19.11
6	0.102	-19.81
8	0.099	-20.07
10	0.103	-19.74
12	0.112	-19.00
14	0.126	-17.99
16	0.142	-16.97
18	0.159	-15.98
20	0.178	-15.01
22	0.196	-14.15
24	0.213	-13.44
26	0.230	-12.75
28	0.246	-12.17
30	0.261	-11.68
32	0.274	-11.25
34	0.285	-10.89
36	0.294	-10.62
38	0.303	-10.36
40	0.310	-10.17
42	0.315	-10.04
44	0.317	-9.97
46	0.317	-9.97
48	0.315	-10.04
50	0.310	-10.17
52	0.303	-10.36
54	0.294	-10.62
56	0.285	-10.89
58	0.274	-11.25
60	0.261	-11.68
62	0.246	-12.17
64	0.230	-12.75
66	0.213	-13.44
68	0.196	-14.15
70	0.178	-15.01
72	0.159	-15.98
74	0.142	-16.97
76	0.126	-17.99
78	0.112	-19.00
80	0.103	-19.74
82	0.099	-20.07
84	0.102	-19.81
86	0.111	-19.11
88	0.124	-18.12
90	0.142	-16.98
92	0.160	-15.92
94	0.181	-14.86
96	0.202	-13.88
98	0.224	-13.00

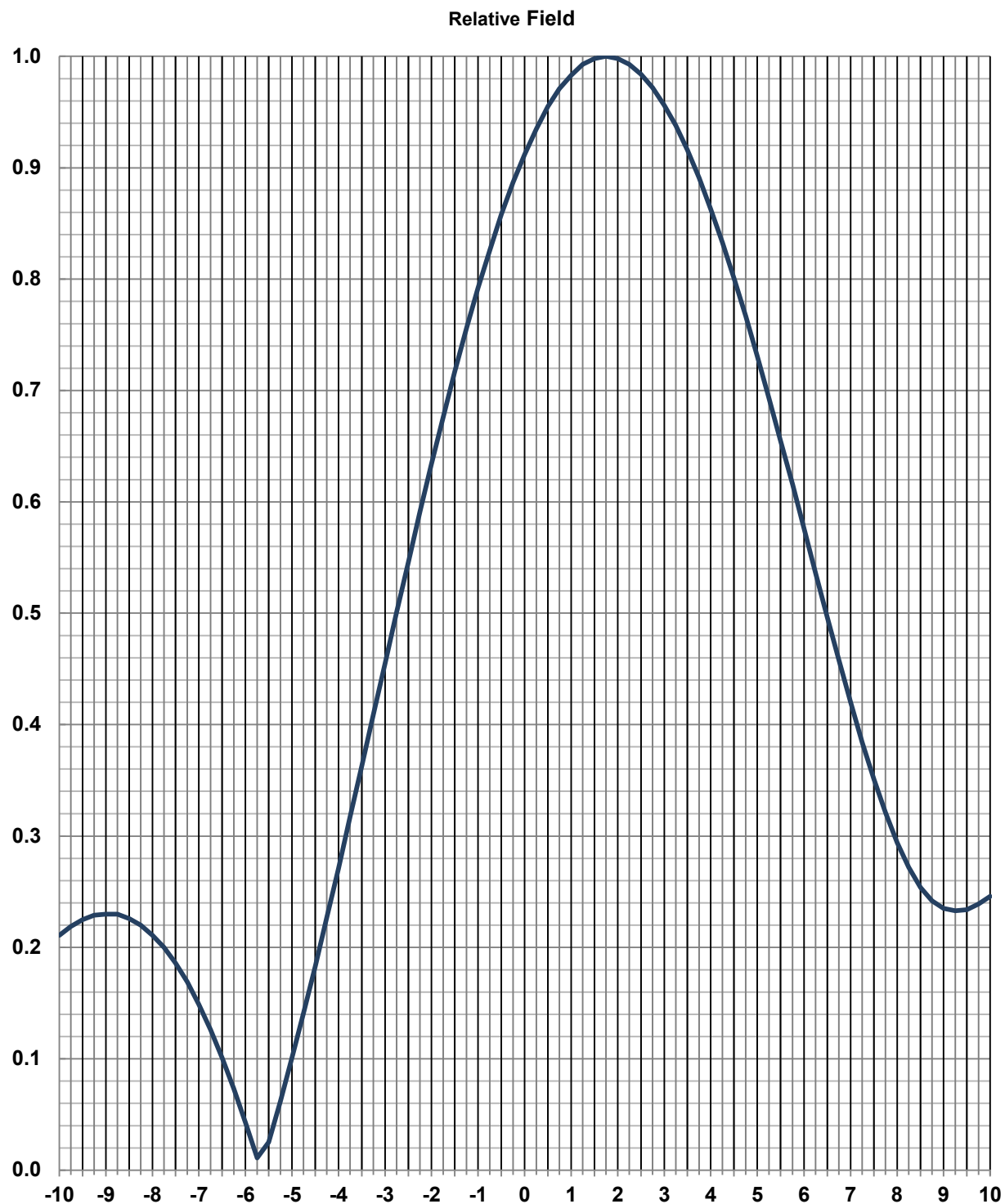
Angle	Field	dB
100	0.246	-12.17
102	0.269	-11.40
104	0.291	-10.71
106	0.313	-10.09
108	0.334	-9.52
110	0.355	-9.00
112	0.375	-8.52
114	0.395	-8.07
116	0.415	-7.65
118	0.434	-7.25
120	0.451	-6.92
122	0.469	-6.57
124	0.488	-6.23
126	0.506	-5.91
128	0.523	-5.62
130	0.540	-5.35
132	0.558	-5.07
134	0.575	-4.81
136	0.591	-4.56
138	0.607	-4.34
140	0.623	-4.11
142	0.638	-3.90
144	0.653	-3.70
146	0.669	-3.49
148	0.684	-3.30
150	0.698	-3.12
152	0.712	-2.95
154	0.726	-2.79
156	0.740	-2.62
158	0.752	-2.47
160	0.765	-2.32
162	0.777	-2.19
164	0.789	-2.05
166	0.800	-1.94
168	0.812	-1.81
170	0.823	-1.69
172	0.834	-1.58
174	0.842	-1.49
176	0.854	-1.37
178	0.862	-1.29
180	0.872	-1.19
182	0.882	-1.10
184	0.890	-1.01
186	0.898	-0.93
188	0.905	-0.87
190	0.913	-0.79
192	0.920	-0.72
194	0.927	-0.66
196	0.936	-0.58
198	0.942	-0.52

Angle	Field	dB
200	0.949	-0.46
202	0.953	-0.42
204	0.962	-0.34
206	0.967	-0.29
208	0.971	-0.25
210	0.976	-0.21
212	0.982	-0.15
214	0.988	-0.11
216	0.989	-0.09
218	0.994	-0.05
220	0.996	-0.04
222	0.998	-0.02
224	0.998	-0.02
226	0.998	-0.02
228	0.998	-0.02
230	0.996	-0.04
232	0.994	-0.05
234	0.989	-0.09
236	0.988	-0.11
238	0.982	-0.15
240	0.976	-0.21
242	0.971	-0.25
244	0.967	-0.29
246	0.962	-0.34
248	0.953	-0.42
250	0.949	-0.46
252	0.942	-0.52
254	0.936	-0.58
256	0.927	-0.66
258	0.920	-0.72
260	0.913	-0.79
262	0.905	-0.87
264	0.898	-0.93
266	0.890	-1.01
268	0.882	-1.10
270	0.872	-1.19
272	0.862	-1.29
274	0.854	-1.37
276	0.842	-1.49
278	0.834	-1.58
280	0.823	-1.69
282	0.812	-1.81
284	0.800	-1.94
286	0.789	-2.05
288	0.777	-2.19
290	0.765	-2.32
292	0.752	-2.47
294	0.740	-2.62
296	0.726	-2.79
298	0.712	-2.95

Angle	Field	dB
300	0.698	-3.12
302	0.684	-3.30
304	0.669	-3.49
306	0.653	-3.70
308	0.638	-3.90
310	0.623	-4.11
312	0.607	-4.34
314	0.591	-4.56
316	0.575	-4.81
318	0.558	-5.07
320	0.540	-5.35
322	0.523	-5.62
324	0.506	-5.91
326	0.488	-6.23
328	0.469	-6.57
330	0.451	-6.92
332	0.434	-7.25
334	0.415	-7.65
336	0.395	-8.07
338	0.375	-8.52
340	0.355	-9.00
342	0.334	-9.52
344	0.313	-10.09
346	0.291	-10.71
348	0.269	-11.40
350	0.246	-12.17
352	0.224	-13.00
354	0.202	-13.88
356	0.181	-14.86
358	0.160	-15.92
360	0.142	-16.98

Elevation Pattern

Type:	AL8PL7	Polarization:	Horizontal
Directivity:		Channel:	30 (ATSC)
Main Lobe:	8.50 numeric (9.29 dB)	Location:	Fresno, CA
Horizontal:	7.07 numeric (8.49 dB)	Beam Tilt:	1.75 degrees



Tabulated Data for Elevation Pattern

Type: AL8PL7

-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	0.211	-13.51	2.25	0.993	-0.06	19.00	0.141	-17.02	43.50	0.014	-37.08	68.00	0.065	-23.74
-9.75	0.219	-13.19	2.50	0.984	-0.14	19.50	0.153	-16.31	44.00	0.028	-31.06	68.50	0.059	-24.58
-9.50	0.225	-12.96	2.75	0.972	-0.25	20.00	0.160	-15.92	44.50	0.041	-27.74	69.00	0.055	-25.19
-9.25	0.229	-12.80	3.00	0.956	-0.39	20.50	0.162	-15.81	45.00	0.054	-25.35	69.50	0.050	-26.02
-9.00	0.230	-12.77	3.25	0.938	-0.56	21.00	0.158	-16.03	45.50	0.066	-23.61	70.00	0.046	-26.74
-8.75	0.230	-12.77	3.50	0.916	-0.76	21.50	0.149	-16.54	46.00	0.076	-22.38	70.50	0.042	-27.54
-8.50	0.226	-12.92	3.75	0.891	-1.00	22.00	0.136	-17.33	46.50	0.084	-21.51	71.00	0.039	-28.18
-8.25	0.220	-13.15	4.00	0.863	-1.28	22.50	0.120	-18.42	47.00	0.091	-20.82	71.50	0.037	-28.64
-8.00	0.211	-13.51	4.25	0.833	-1.59	23.00	0.101	-19.91	47.50	0.096	-20.35	72.00	0.035	-29.12
-7.75	0.200	-13.98	4.50	0.801	-1.93	23.50	0.080	-21.94	48.00	0.099	-20.09	72.50	0.034	-29.37
-7.50	0.186	-14.61	4.75	0.767	-2.30	24.00	0.060	-24.44	48.50	0.100	-20.00	73.00	0.034	-29.37
-7.25	0.169	-15.44	5.00	0.731	-2.72	24.50	0.045	-26.94	49.00	0.100	-20.00	73.50	0.035	-29.12
-7.00	0.149	-16.54	5.25	0.693	-3.19	25.00	0.041	-27.74	49.50	0.097	-20.26	74.00	0.036	-28.87
-6.75	0.126	-17.99	5.50	0.655	-3.68	25.50	0.050	-26.02	50.00	0.093	-20.63	74.50	0.037	-28.64
-6.50	0.101	-19.91	5.75	0.616	-4.21	26.00	0.065	-23.74	50.50	0.088	-21.11	75.00	0.039	-28.18
-6.25	0.073	-22.73	6.00	0.576	-4.79	26.50	0.081	-21.83	51.00	0.081	-21.83	75.50	0.040	-27.96
-6.00	0.043	-27.33	6.25	0.536	-5.42	27.00	0.095	-20.45	51.50	0.073	-22.73	76.00	0.042	-27.54
-5.75	0.011	-39.17	6.50	0.496	-6.09	27.50	0.107	-19.41	52.00	0.063	-24.01	76.50	0.043	-27.33
-5.50	0.025	-32.04	6.75	0.458	-6.78	28.00	0.115	-18.79	52.50	0.053	-25.51	77.00	0.044	-27.13
-5.25	0.062	-24.15	7.00	0.420	-7.54	28.50	0.120	-18.42	53.00	0.043	-27.33	77.50	0.045	-26.94
-5.00	0.101	-19.91	7.25	0.384	-8.31	29.00	0.121	-18.34	53.50	0.032	-29.90	78.00	0.046	-26.74
-4.75	0.141	-17.02	7.50	0.351	-9.09	29.50	0.118	-18.56	54.00	0.021	-33.56	78.50	0.047	-26.56
-4.50	0.183	-14.75	7.75	0.321	-9.87	30.00	0.111	-19.09	54.50	0.012	-38.42	79.00	0.047	-26.56
-4.25	0.227	-12.88	8.00	0.294	-10.63	30.50	0.102	-19.83	55.00	0.012	-38.42	79.50	0.047	-26.56
-4.00	0.271	-11.34	8.25	0.272	-11.31	31.00	0.090	-20.92	55.50	0.020	-33.98	80.00	0.047	-26.56
-3.75	0.317	-9.98	8.50	0.254	-11.90	31.50	0.075	-22.50	56.00	0.031	-30.17	80.50	0.046	-26.74
-3.50	0.363	-8.80	8.75	0.242	-12.32	32.00	0.059	-24.58	56.50	0.041	-27.74	81.00	0.045	-26.94
-3.25	0.409	-7.77	9.00	0.235	-12.58	32.50	0.043	-27.33	57.00	0.051	-25.85	81.50	0.044	-27.13
-3.00	0.455	-6.84	9.25	0.233	-12.65	33.00	0.028	-31.06	57.50	0.060	-24.44	82.00	0.043	-27.33
-2.75	0.501	-6.00	9.50	0.234	-12.62	33.50	0.021	-33.56	58.00	0.069	-23.22	82.50	0.041	-27.74
-2.50	0.546	-5.26	9.75	0.239	-12.43	34.00	0.029	-30.75	58.50	0.076	-22.38	83.00	0.040	-27.96
-2.25	0.591	-4.57	10.00	0.246	-12.18	34.50	0.042	-27.54	59.00	0.083	-21.62	83.50	0.038	-28.40
-2.00	0.634	-3.96	10.50	0.262	-11.63	35.00	0.057	-24.88	59.50	0.089	-21.01	84.00	0.035	-29.12
-1.75	0.676	-3.40	11.00	0.276	-11.18	35.50	0.070	-23.10	60.00	0.094	-20.54	84.50	0.033	-29.63
-1.50	0.717	-2.89	11.50	0.285	-10.90	36.00	0.082	-21.72	60.50	0.098	-20.18	85.00	0.031	-30.17
-1.25	0.756	-2.43	12.00	0.288	-10.81	36.50	0.092	-20.72	61.00	0.101	-19.91	85.50	0.028	-31.06
-1.00	0.792	-2.03	12.50	0.282	-11.00	37.00	0.098	-20.18	61.50	0.102	-19.83	86.00	0.025	-32.04
-0.75	0.826	-1.66	13.00	0.270	-11.37	37.50	0.103	-19.74	62.00	0.103	-19.74	86.50	0.022	-33.15
-0.50	0.858	-1.33	13.50	0.251	-12.01	38.00	0.104	-19.66	62.50	0.104	-19.66	87.00	0.019	-34.42
-0.25	0.887	-1.04	14.00	0.226	-12.92	38.50	0.103	-19.74	63.00	0.103	-19.74	87.50	0.016	-35.92
0.00	0.912	-0.80	14.50	0.196	-14.15	39.00	0.099	-20.09	63.50	0.101	-19.91	88.00	0.013	-37.72
0.25	0.935	-0.58	15.00	0.164	-15.70	39.50	0.093	-20.63	64.00	0.099	-20.09	88.50	0.010	-40.00
0.50	0.955	-0.40	15.50	0.132	-17.59	40.00	0.084	-21.51	64.50	0.096	-20.35	89.00	0.007	-43.10
0.75	0.971	-0.26	16.00	0.104	-19.66	40.50	0.074	-22.62	65.00	0.093	-20.63	89.50	0.003	-50.46
1.00	0.983	-0.15	16.50	0.084	-21.51	41.00	0.062	-24.15	65.50	0.089	-21.01	90.00	0.000	---
1.25	0.993	-0.06	17.00	0.079	-22.05	41.50	0.048	-26.38	66.00	0.084	-21.51			
1.50	0.998	-0.02	17.50	0.089	-21.01	42.00	0.034	-29.37	66.50	0.080	-21.94			
1.75	1.000	0.00	18.00	0.107	-19.41	42.50	0.020	-33.98	67.00	0.075	-22.50			
2.00	0.998	-0.02	18.50	0.125	-18.06	43.00	0.008	-41.94	67.50	0.070	-23.10			