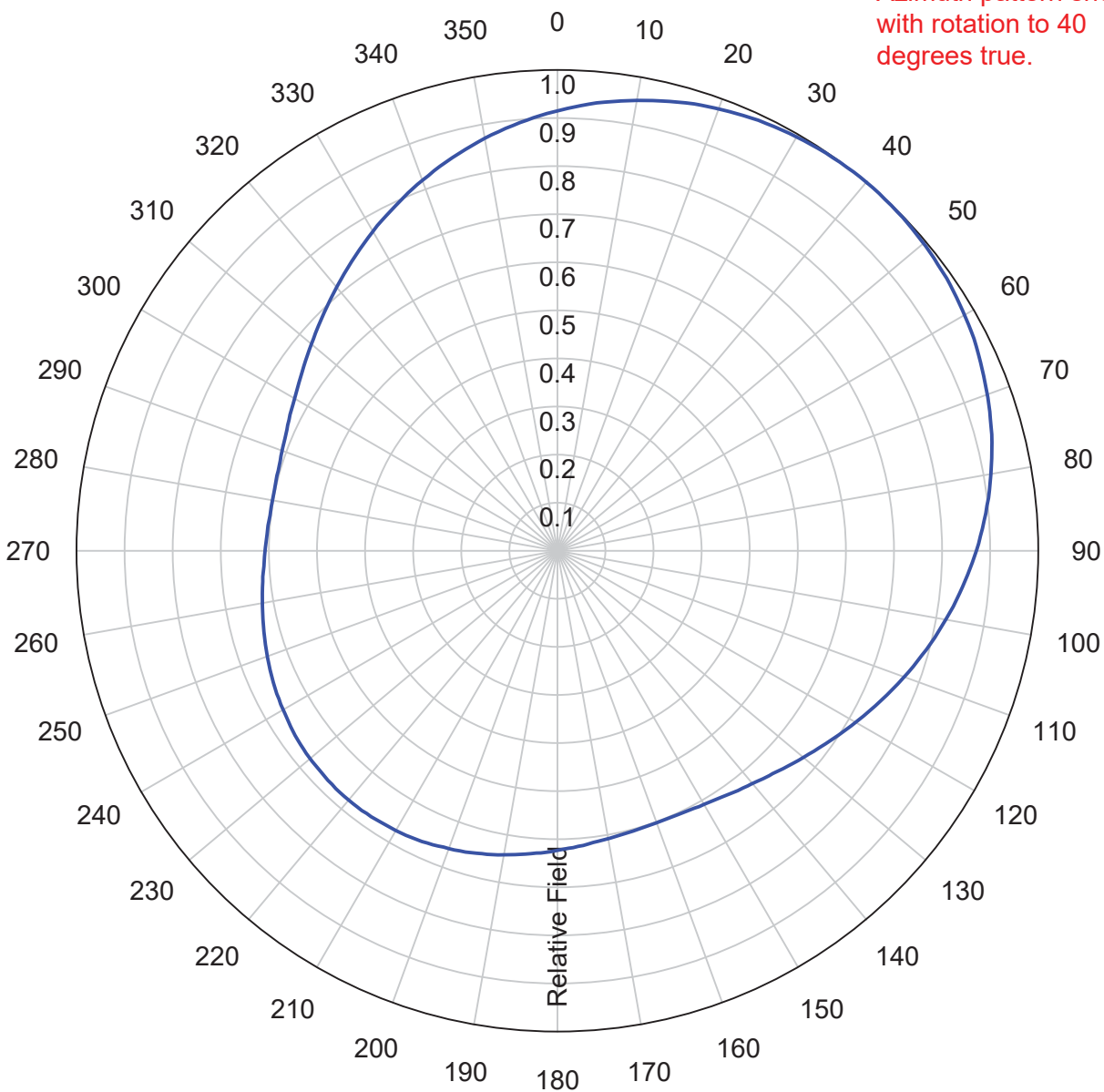


**AZIMUTH PATTERN****Type:****ALP-OC****Channel:****22****Directivity:****Numeric****dBd****1.70****2.30****Peak(s) at:****Location:****Polarization:****Horizontal**

Note: Pattern shape and directivity may vary with channel and mouting configuration.



*Preliminary, subject to final design and review.*

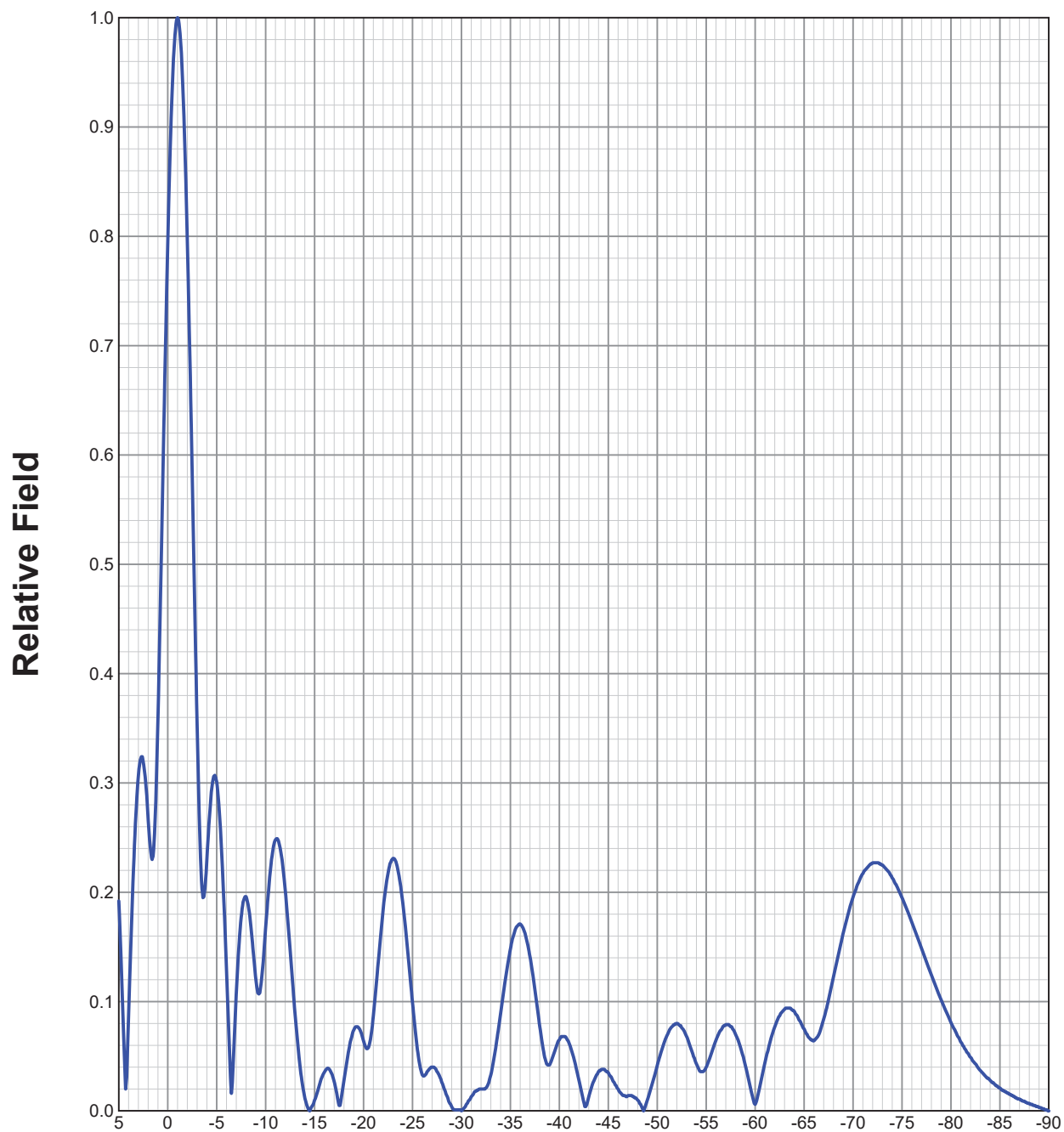
## **TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT**

Type: ALP-OC

PolarizationHorizontal

<b>ANGLE</b>	<b>FIELD</b>	<b>ERP (kW)</b>	<b>ERP (dBk)</b>
0	0.915	9.877	9.946
10	0.951	10.669	10.281
20	0.978	11.283	10.524
30	0.994	11.656	10.665
40	1.000	11.797	10.718
50	0.994	11.656	10.665
60	0.978	11.283	10.524
70	0.951	10.669	10.281
80	0.915	9.877	9.946
90	0.871	8.950	9.518
100	0.820	7.932	8.994
110	0.767	6.940	8.414
120	0.715	6.031	7.804
130	0.668	5.264	7.213
140	0.631	4.697	6.718
150	0.609	4.375	6.410
160	0.602	4.275	6.310
170	0.608	4.361	6.396
180	0.623	4.579	6.607
190	0.642	4.862	6.868
200	0.659	5.123	7.095
210	0.672	5.327	7.265
220	0.676	5.391	7.317
230	0.672	5.327	7.265
240	0.659	5.123	7.095
250	0.642	4.862	6.868
260	0.623	4.579	6.607
270	0.608	4.361	6.396
280	0.602	4.275	6.310
290	0.609	4.375	6.410
300	0.631	4.697	6.718
310	0.668	5.264	7.213
320	0.715	6.031	7.804
330	0.767	6.940	8.414
340	0.820	7.932	8.994
350	0.871	8.950	9.518

*Preliminary, subject to final design and review.*

**ELEVATION PATTERN****Type:****ALP16M4****Channel:****22****Directivity:****Numeric****dBd****Location:****Main Lobe:****16.59****12.20****Beam Tilt:****-1.00****Horizontal:****10.46****10.19****Polarization:****Horizontal***Preliminary, subject to final design and review.*

## TABULATED DATA FOR ELEVATION PATTERN

Type: ALP16M4

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.192	-14.33	-6.75	0.057	-24.88	-27.00	0.040	-27.96	-50.50
4.75	0.134	-17.49	-7.00	0.107	-19.41	-27.50	0.036	-28.87	-51.00
4.50	0.067	-23.48	-7.25	0.148	-16.59	-28.00	0.026	-31.70	-51.50
4.25	0.026	-31.87	-7.50	0.177	-15.04	-28.50	0.014	-37.08	-52.00
4.00	0.087	-21.21	-7.75	0.193	-14.31	-29.00	0.004	-47.96	-52.50
3.75	0.158	-16.05	-8.00	0.196	-14.15	-29.50	0.001	-60.00	-53.00
3.50	0.221	-13.11	-8.25	0.186	-14.59	-30.00	0.000	-40.00	-53.50
3.25	0.272	-11.32	-8.50	0.168	-15.49	-30.50	0.006	-44.44	-54.00
3.00	0.307	-10.26	-8.75	0.144	-16.83	-31.00	0.013	-37.72	-54.50
2.75	0.323	-9.83	-9.00	0.120	-18.42	-31.50	0.018	-34.89	-55.00
2.50	0.320	-9.90	-9.25	0.107	-19.37	-32.00	0.020	-33.98	-55.50
2.25	0.299	-10.47	-9.50	0.114	-18.86	-32.50	0.021	-33.56	-56.00
2.00	0.268	-11.44	-9.75	0.137	-17.27	-33.00	0.033	-29.63	-56.50
1.75	0.237	-12.49	-10.00	0.167	-15.55	-33.50	0.058	-24.73	-57.00
1.50	0.233	-12.65	-10.50	0.222	-13.07	-34.00	0.089	-21.01	-57.50
1.25	0.276	-11.17	-11.00	0.248	-12.11	-34.50	0.121	-18.34	-58.00
1.00	0.359	-8.90	-11.50	0.240	-12.40	-35.00	0.148	-16.59	-58.50
0.75	0.466	-6.64	-12.00	0.202	-13.89	-35.50	0.166	-15.60	-59.00
0.50	0.580	-4.73	-12.50	0.147	-16.65	-36.00	0.171	-15.34	-59.50
0.25	0.692	-3.20	-13.00	0.089	-21.01	-36.50	0.162	-15.81	-60.00
0.00	0.794	-2.00	-13.50	0.042	-27.54	-37.00	0.141	-17.02	-60.50
-0.25	0.880	-1.11	-14.00	0.012	-38.42	-37.50	0.111	-19.09	-61.00
-0.50	0.945	-0.49	-14.50	0.000	-40.00	-38.00	0.077	-22.27	-61.50
-0.75	0.986	-0.13	-15.00	0.010	-40.00	-38.50	0.049	-26.20	-62.00
-1.00	1.000	0.00	-15.50	0.024	-32.40	-39.00	0.042	-27.54	-62.50
-1.25	0.986	-0.12	-16.00	0.036	-28.87	-39.50	0.054	-25.35	-63.00
-1.50	0.946	-0.48	-16.50	0.038	-28.40	-40.00	0.065	-23.74	-63.50
-1.75	0.881	-1.10	-17.00	0.027	-31.37	-40.50	0.068	-23.35	-64.00
-2.00	0.796	-1.98	-17.50	0.005	-46.02	-41.00	0.062	-24.15	-64.50
-2.25	0.694	-3.18	-18.00	0.028	-31.06	-41.50	0.047	-26.56	-65.00
-2.50	0.581	-4.72	-18.50	0.056	-25.04	-42.00	0.028	-31.06	-65.50
-2.75	0.464	-6.67	-19.00	0.074	-22.62	-42.50	0.008	-41.94	-66.00
-3.00	0.353	-9.04	-19.50	0.076	-22.38	-43.00	0.013	-37.72	-66.50
-3.25	0.260	-11.72	-20.00	0.064	-23.88	-43.50	0.027	-31.37	-67.00
-3.50	0.203	-13.85	-20.50	0.058	-24.73	-44.00	0.036	-28.87	-67.50
-3.75	0.200	-14.00	-21.00	0.087	-21.21	-44.50	0.038	-28.40	-68.00
-4.00	0.230	-12.77	-21.50	0.136	-17.33	-45.00	0.035	-29.12	-68.50
-4.25	0.268	-11.45	-22.00	0.184	-14.70	-45.50	0.027	-31.37	-69.00
-4.50	0.296	-10.57	-22.50	0.218	-13.23	-46.00	0.020	-33.98	-69.50
-4.75	0.306	-10.27	-23.00	0.231	-12.73	-46.50	0.014	-37.08	-70.00
-5.00	0.301	-10.43	-23.50	0.221	-13.11	-47.00	0.014	-37.08	-70.50
-5.25	0.276	-11.17	-24.00	0.191	-14.38	-47.50	0.013	-37.72	-71.00
-5.50	0.238	-12.47	-24.50	0.147	-16.65	-48.00	0.010	-40.00	-71.50
-5.75	0.188	-14.52	-25.00	0.099	-20.09	-48.50	0.002	-53.98	-72.00
-6.00	0.130	-17.72	-25.50	0.056	-25.04	-49.00	0.010	-40.00	-72.50
-6.25	0.068	-23.35	-26.00	0.033	-29.63	-49.50	0.025	-32.04	-73.00
-6.50	0.016	-35.92	-26.50	0.036	-28.87	-50.00	0.041	-27.74	-73.50

*Preliminary, subject to final design and review.*