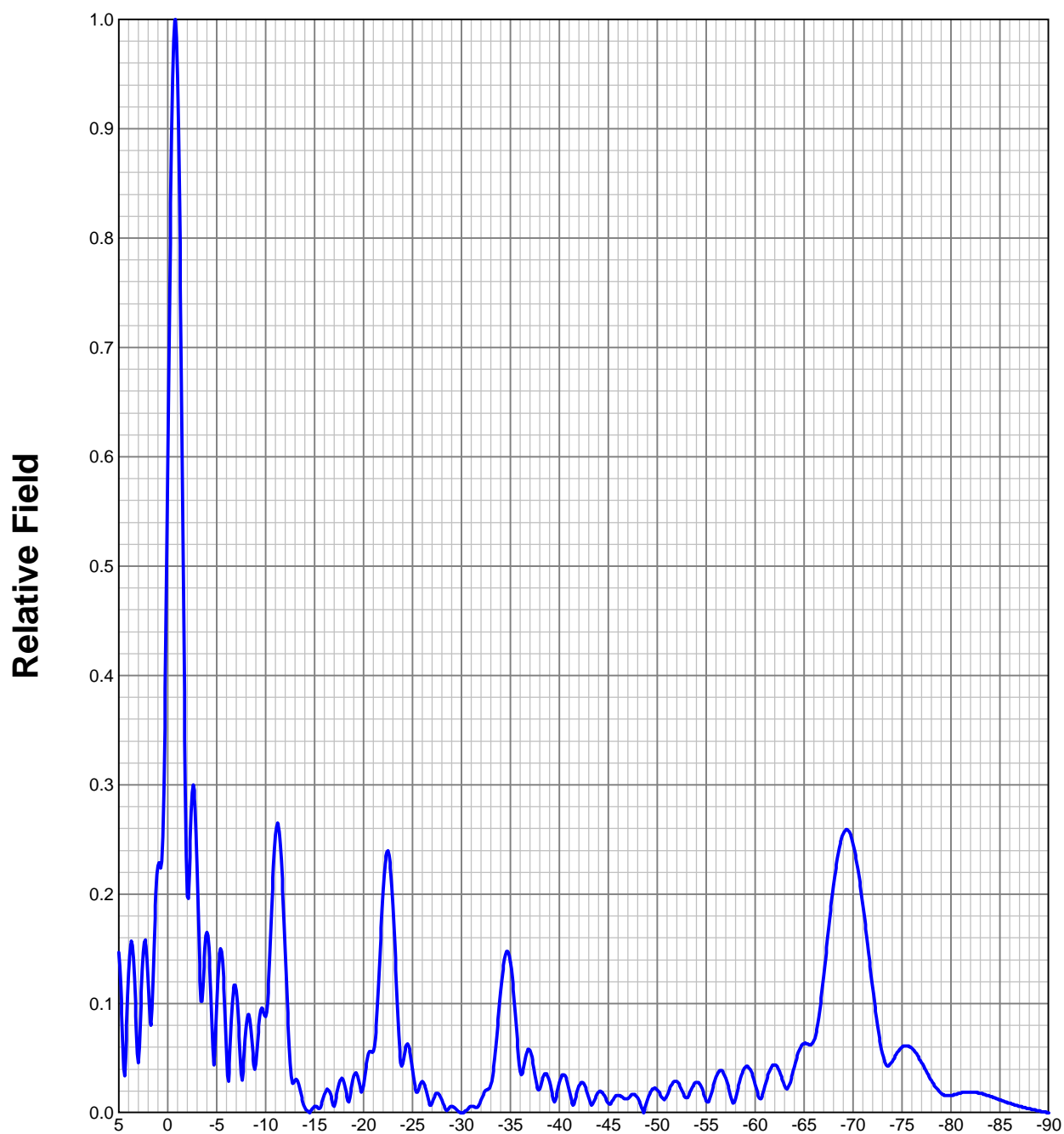


ELEVATION PATTERN**Type:****ALP32M3****Channel:****39****Directivity:****Numeric****dBd****Location:****Newton, IA****Main Lobe:****31.93****15.04****Beam Tilt:****-0.75****Horizontal:****11.15****10.47****Polarization:****Horizontal**

Preliminary, subject to final design and review.

TABULATED DATA FOR ELEVATION PATTERN

Type: ALP32M3

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.147	-16.65	-6.75	0.115	-18.82	-27.00	0.009	-40.92	-50.50
4.75	0.103	-19.74	-7.00	0.112	-19.02	-27.50	0.018	-34.89	-51.00
4.50	0.041	-27.74	-7.25	0.079	-22.10	-28.00	0.012	-38.42	-51.50
4.25	0.067	-23.54	-7.50	0.036	-28.87	-28.50	0.002	-53.98	-52.00
4.00	0.128	-17.86	-7.75	0.045	-26.94	-29.00	0.006	-44.44	-52.50
3.75	0.155	-16.17	-8.00	0.078	-22.16	-29.50	0.003	-50.46	-53.00
3.50	0.142	-16.95	-8.25	0.090	-20.92	-30.00	0.000	-40.00	-53.50
3.25	0.088	-21.06	-8.50	0.076	-22.38	-30.50	0.002	-53.98	-54.00
3.00	0.046	-26.74	-8.75	0.049	-26.20	-31.00	0.006	-44.44	-54.50
2.75	0.098	-20.22	-9.00	0.045	-26.94	-31.50	0.005	-46.02	-55.00
2.50	0.147	-16.65	-9.25	0.074	-22.67	-32.00	0.012	-38.42	-55.50
2.25	0.155	-16.19	-9.50	0.094	-20.54	-32.50	0.021	-33.56	-56.00
2.00	0.120	-18.42	-9.75	0.093	-20.58	-33.00	0.026	-31.70	-56.50
1.75	0.082	-21.78	-10.00	0.088	-21.11	-33.50	0.059	-24.58	-57.00
1.50	0.121	-18.34	-10.50	0.161	-15.86	-34.00	0.111	-19.09	-57.50
1.25	0.190	-14.45	-11.00	0.254	-11.90	-34.50	0.145	-16.77	-58.00
1.00	0.226	-12.92	-11.50	0.246	-12.18	-35.00	0.138	-17.20	-58.50
0.75	0.225	-12.96	-12.00	0.148	-16.59	-35.50	0.091	-20.82	-59.00
0.50	0.252	-11.97	-12.50	0.046	-26.74	-36.00	0.038	-28.40	-59.50
0.25	0.388	-8.22	-13.00	0.030	-30.46	-36.50	0.049	-26.20	-60.00
0.00	0.591	-4.57	-13.50	0.022	-33.15	-37.00	0.057	-24.88	-60.50
-0.25	0.795	-1.99	-14.00	0.005	-46.02	-37.50	0.035	-29.12	-61.00
-0.50	0.946	-0.48	-14.50	0.000	-40.00	-38.00	0.022	-33.15	-61.50
-0.75	1.000	0.00	-15.00	0.006	-44.44	-38.50	0.036	-28.87	-62.00
-1.00	0.949	-0.45	-15.50	0.004	-47.96	-39.00	0.029	-30.75	-62.50
-1.25	0.793	-2.01	-16.00	0.017	-35.39	-39.50	0.010	-40.00	-63.00
-1.50	0.574	-4.82	-16.50	0.020	-33.98	-40.00	0.028	-31.06	-63.50
-1.75	0.343	-9.29	-17.00	0.006	-44.44	-40.50	0.035	-29.12	-64.00
-2.00	0.198	-14.07	-17.50	0.027	-31.37	-41.00	0.021	-33.56	-64.50
-2.25	0.234	-12.62	-18.00	0.028	-31.06	-41.50	0.008	-41.94	-65.00
-2.50	0.293	-10.66	-18.50	0.010	-40.00	-42.00	0.025	-32.04	-65.50
-2.75	0.287	-10.83	-19.00	0.034	-29.37	-42.50	0.027	-31.37	-66.00
-3.00	0.224	-13.00	-19.50	0.030	-30.46	-43.00	0.014	-37.08	-66.50
-3.25	0.137	-17.30	-20.00	0.025	-32.04	-43.50	0.010	-40.00	-67.00
-3.50	0.102	-19.83	-20.50	0.054	-25.35	-44.00	0.019	-34.42	-67.50
-3.75	0.142	-16.95	-21.00	0.056	-25.04	-44.50	0.017	-35.39	-68.00
-4.00	0.165	-15.65	-21.50	0.112	-19.02	-45.00	0.009	-40.92	-68.50
-4.25	0.142	-16.95	-22.00	0.203	-13.85	-45.50	0.012	-38.42	-69.00
-4.50	0.084	-21.51	-22.50	0.240	-12.40	-46.00	0.016	-35.92	-69.50
-4.75	0.048	-26.38	-23.00	0.190	-14.42	-46.50	0.014	-37.08	-70.00
-5.00	0.098	-20.18	-23.50	0.090	-20.92	-47.00	0.013	-37.72	-70.50
-5.25	0.141	-17.02	-24.00	0.045	-26.94	-47.50	0.017	-35.39	-71.00
-5.50	0.148	-16.59	-24.50	0.063	-24.01	-48.00	0.014	-37.08	-71.50
-5.75	0.114	-18.86	-25.00	0.040	-27.96	-48.50	0.003	-50.46	-72.00
-6.00	0.056	-25.04	-25.50	0.019	-34.42	-49.00	0.012	-38.42	-72.50
-6.25	0.037	-28.64	-26.00	0.029	-30.75	-49.50	0.022	-33.15	-73.00
-6.50	0.086	-21.31	-26.50	0.017	-35.39	-50.00	0.021	-33.56	-73.50

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