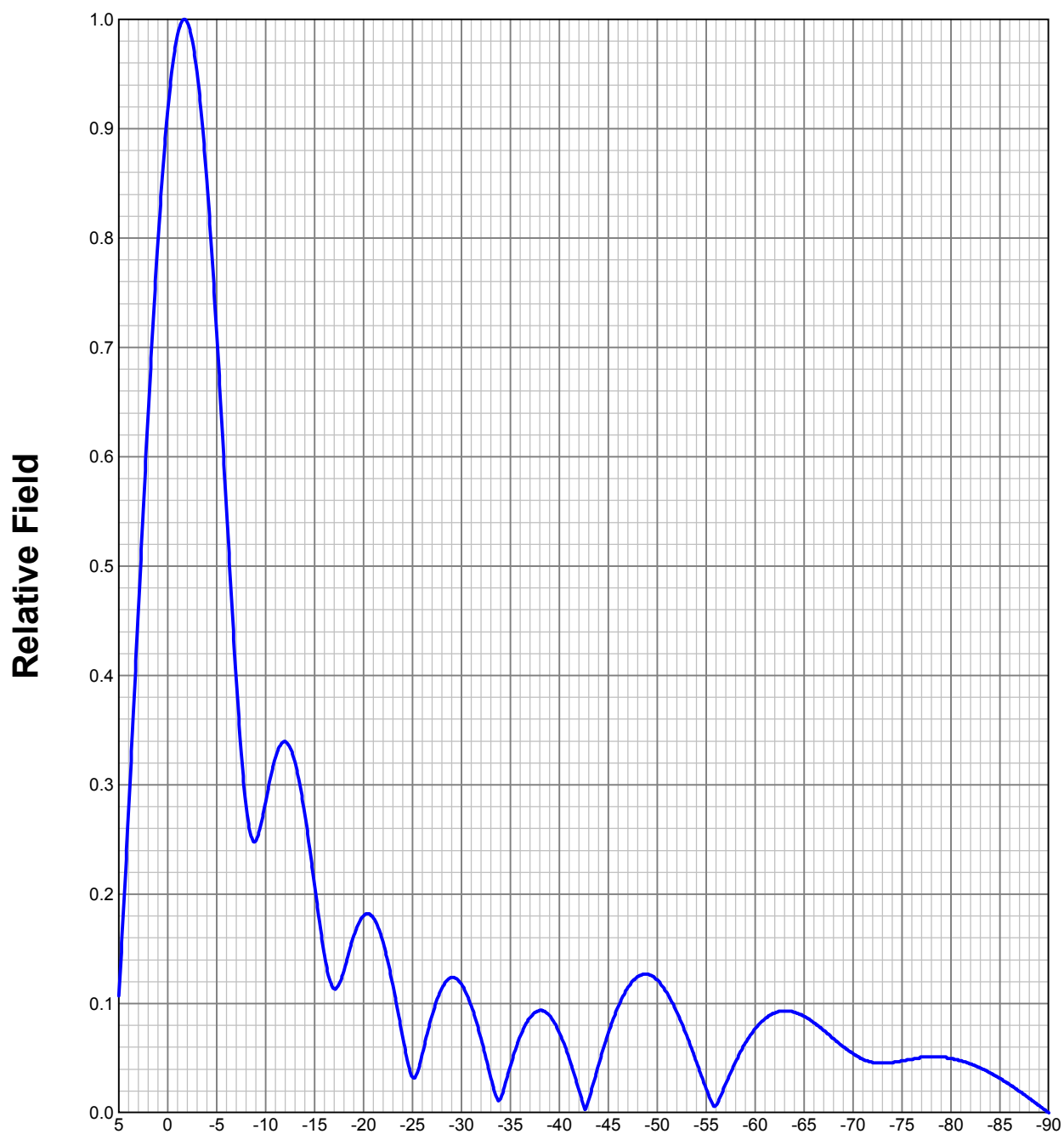


ELEVATION PATTERN**Type:****AL8****Channel:****38****Directivity:****Numeric****dBd****Location:****Main Lobe:****8.68****9.39****Beam Tilt:****-1.75****Horizontal:****7.30****8.63****Polarization:****Horizontal**

Preliminary, subject to final design and review.

TABULATED DATA FOR ELEVATION PATTERN

Type: AL8

Polarization Horizontal

| ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB |
|------------|-------|------------|--------|------------|--------|------------|-------|------------|--------|
| 5.00 | 0.107 | -19.41 | -6.75 | 0.433 | -7.27 | -27.00 | 0.089 | -21.01 | -50.50 |
| 4.75 | 0.147 | -16.65 | -7.00 | 0.396 | -8.05 | -27.50 | 0.104 | -19.66 | -51.00 |
| 4.50 | 0.189 | -14.47 | -7.25 | 0.361 | -8.84 | -28.00 | 0.114 | -18.86 | -51.50 |
| 4.25 | 0.232 | -12.69 | -7.50 | 0.330 | -9.63 | -28.50 | 0.121 | -18.34 | -52.00 |
| 4.00 | 0.277 | -11.15 | -7.75 | 0.303 | -10.37 | -29.00 | 0.124 | -18.13 | -52.50 |
| 3.75 | 0.322 | -9.84 | -8.00 | 0.281 | -11.03 | -29.50 | 0.123 | -18.20 | -53.00 |
| 3.50 | 0.368 | -8.68 | -8.25 | 0.264 | -11.57 | -30.00 | 0.118 | -18.56 | -53.50 |
| 3.25 | 0.413 | -7.67 | -8.50 | 0.253 | -11.94 | -30.50 | 0.109 | -19.25 | -54.00 |
| 3.00 | 0.460 | -6.74 | -8.75 | 0.248 | -12.09 | -31.00 | 0.098 | -20.18 | -54.50 |
| 2.75 | 0.506 | -5.92 | -9.00 | 0.249 | -12.08 | -31.50 | 0.084 | -21.51 | -55.00 |
| 2.50 | 0.551 | -5.18 | -9.25 | 0.255 | -11.89 | -32.00 | 0.068 | -23.35 | -55.50 |
| 2.25 | 0.596 | -4.50 | -9.50 | 0.263 | -11.60 | -32.50 | 0.050 | -26.02 | -56.00 |
| 2.00 | 0.639 | -3.89 | -9.75 | 0.273 | -11.28 | -33.00 | 0.032 | -29.90 | -56.50 |
| 1.75 | 0.681 | -3.33 | -10.00 | 0.284 | -10.93 | -33.50 | 0.016 | -35.92 | -57.00 |
| 1.50 | 0.722 | -2.83 | -10.50 | 0.307 | -10.26 | -34.00 | 0.013 | -37.72 | -57.50 |
| 1.25 | 0.760 | -2.38 | -11.00 | 0.325 | -9.76 | -34.50 | 0.028 | -31.06 | -58.00 |
| 1.00 | 0.797 | -1.97 | -11.50 | 0.336 | -9.47 | -35.00 | 0.043 | -27.33 | -58.50 |
| 0.75 | 0.831 | -1.61 | -12.00 | 0.340 | -9.37 | -35.50 | 0.057 | -24.88 | -59.00 |
| 0.50 | 0.862 | -1.29 | -12.50 | 0.334 | -9.53 | -36.00 | 0.070 | -23.10 | -59.50 |
| 0.25 | 0.891 | -1.00 | -13.00 | 0.321 | -9.87 | -36.50 | 0.080 | -21.94 | -60.00 |
| 0.00 | 0.917 | -0.75 | -13.50 | 0.300 | -10.46 | -37.00 | 0.087 | -21.21 | -60.50 |
| -0.25 | 0.939 | -0.55 | -14.00 | 0.273 | -11.28 | -37.50 | 0.092 | -20.72 | -61.00 |
| -0.50 | 0.958 | -0.37 | -14.50 | 0.242 | -12.32 | -38.00 | 0.094 | -20.54 | -61.50 |
| -0.75 | 0.974 | -0.23 | -15.00 | 0.208 | -13.64 | -38.50 | 0.093 | -20.63 | -62.00 |
| -1.00 | 0.986 | -0.12 | -15.50 | 0.175 | -15.14 | -39.00 | 0.089 | -21.01 | -62.50 |
| -1.25 | 0.994 | -0.05 | -16.00 | 0.145 | -16.77 | -39.50 | 0.082 | -21.72 | -63.00 |
| -1.50 | 0.999 | -0.01 | -16.50 | 0.123 | -18.20 | -40.00 | 0.073 | -22.73 | -63.50 |
| -1.75 | 1.000 | 0.00 | -17.00 | 0.114 | -18.86 | -40.50 | 0.063 | -24.01 | -64.00 |
| -2.00 | 0.997 | -0.03 | -17.50 | 0.118 | -18.56 | -41.00 | 0.050 | -26.02 | -64.50 |
| -2.25 | 0.990 | -0.08 | -18.00 | 0.130 | -17.72 | -41.50 | 0.036 | -28.87 | -65.00 |
| -2.50 | 0.981 | -0.17 | -18.50 | 0.147 | -16.65 | -42.00 | 0.021 | -33.56 | -65.50 |
| -2.75 | 0.967 | -0.29 | -19.00 | 0.162 | -15.81 | -42.50 | 0.006 | -44.44 | -66.00 |
| -3.00 | 0.951 | -0.44 | -19.50 | 0.173 | -15.24 | -43.00 | 0.012 | -38.42 | -66.50 |
| -3.25 | 0.931 | -0.63 | -20.00 | 0.180 | -14.89 | -43.50 | 0.028 | -31.06 | -67.00 |
| -3.50 | 0.907 | -0.85 | -20.50 | 0.182 | -14.80 | -44.00 | 0.044 | -27.13 | -67.50 |
| -3.75 | 0.881 | -1.11 | -21.00 | 0.178 | -14.99 | -44.50 | 0.059 | -24.58 | -68.00 |
| -4.00 | 0.852 | -1.39 | -21.50 | 0.169 | -15.44 | -45.00 | 0.073 | -22.73 | -68.50 |
| -4.25 | 0.820 | -1.72 | -22.00 | 0.156 | -16.14 | -45.50 | 0.086 | -21.31 | -69.00 |
| -4.50 | 0.786 | -2.09 | -22.50 | 0.138 | -17.20 | -46.00 | 0.097 | -20.26 | -69.50 |
| -4.75 | 0.750 | -2.49 | -23.00 | 0.117 | -18.64 | -46.50 | 0.107 | -19.41 | -70.00 |
| -5.00 | 0.713 | -2.94 | -23.50 | 0.093 | -20.63 | -47.00 | 0.115 | -18.79 | -70.50 |
| -5.25 | 0.674 | -3.43 | -24.00 | 0.069 | -23.22 | -47.50 | 0.121 | -18.34 | -71.00 |
| -5.50 | 0.634 | -3.96 | -24.50 | 0.047 | -26.56 | -48.00 | 0.125 | -18.06 | -71.50 |
| -5.75 | 0.593 | -4.54 | -25.00 | 0.033 | -29.63 | -48.50 | 0.127 | -17.92 | -72.00 |
| -6.00 | 0.552 | -5.16 | -25.50 | 0.037 | -28.64 | -49.00 | 0.127 | -17.92 | -72.50 |
| -6.25 | 0.512 | -5.81 | -26.00 | 0.054 | -25.35 | -49.50 | 0.125 | -18.06 | -73.00 |
| -6.50 | 0.472 | -6.52 | -26.50 | 0.072 | -22.85 | -50.00 | 0.122 | -18.27 | -73.50 |

Preliminary, subject to final design and review.