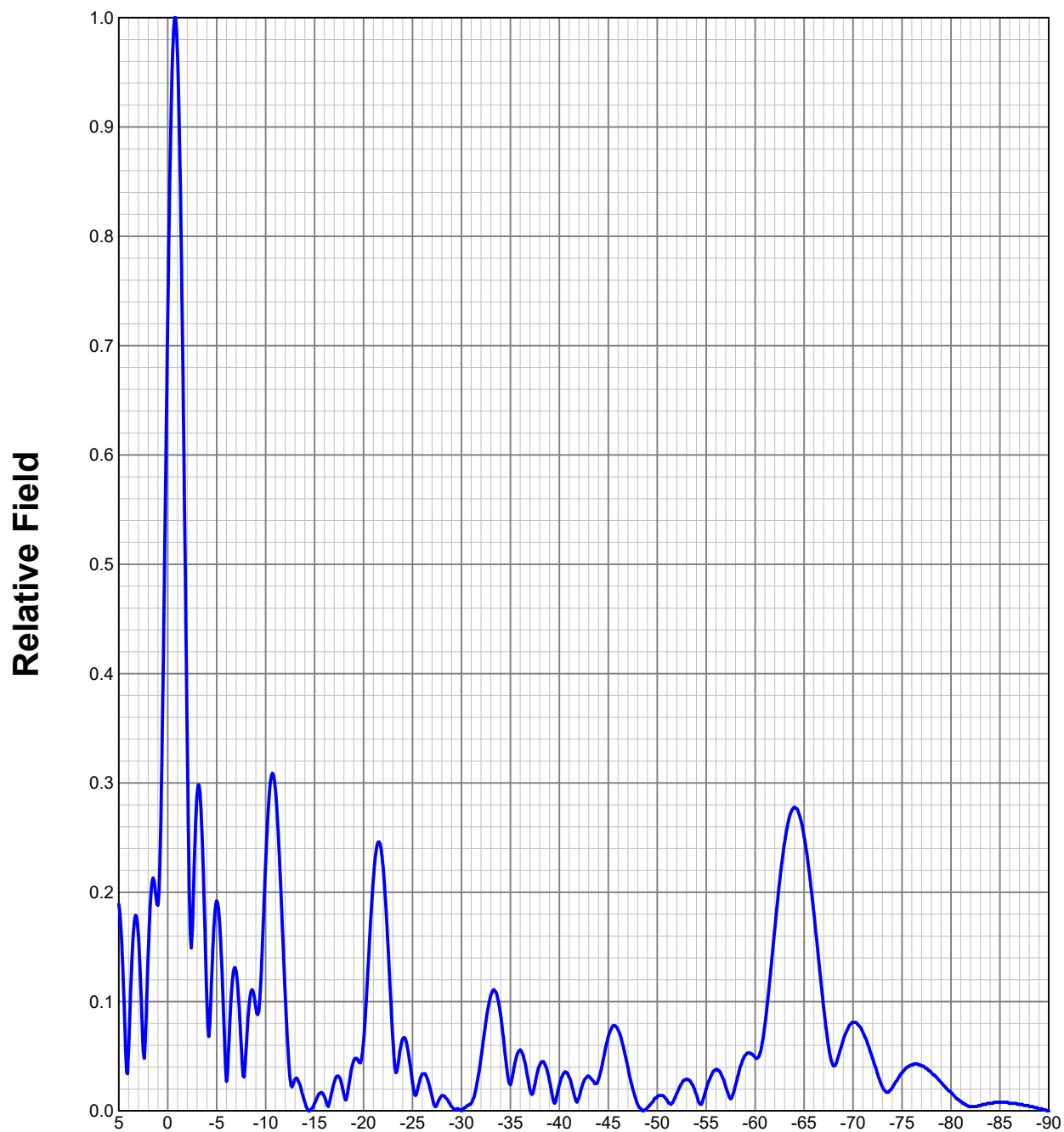


ELEVATION PATTERN**Type:****ALP24L3****Channel:****22****Directivity:****Numeric****dBd****Location:****Main Lobe:****25.21****14.02****Beam Tilt:****-0.75****Horizontal:****13.29****11.23****Polarization:****Horizontal**

Preliminary, subject to final design and review.

TABULATED DATA FOR ELEVATION PATTERN

Type: ALP24L3

PolarizationHorizontal

| ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB |
|------------|-------|------------|--------|------------|--------|------------|-------|------------|--------|
| 5.00 | 0.189 | -14.47 | -6.75 | 0.129 | -17.79 | -27.00 | 0.013 | -37.72 | -50.50 |
| 4.75 | 0.162 | -15.81 | -7.00 | 0.127 | -17.92 | -27.50 | 0.006 | -44.44 | -51.00 |
| 4.50 | 0.109 | -19.25 | -7.25 | 0.101 | -19.91 | -28.00 | 0.014 | -37.08 | -51.50 |
| 4.25 | 0.045 | -26.84 | -7.50 | 0.061 | -24.29 | -28.50 | 0.011 | -39.17 | -52.00 |
| 4.00 | 0.055 | -25.19 | -7.75 | 0.032 | -30.03 | -29.00 | 0.004 | -47.96 | -52.50 |
| 3.75 | 0.118 | -18.53 | -8.00 | 0.056 | -25.04 | -29.50 | 0.002 | -53.98 | -53.00 |
| 3.50 | 0.164 | -15.70 | -8.25 | 0.090 | -20.87 | -30.00 | 0.000 | -40.00 | -53.50 |
| 3.25 | 0.178 | -14.97 | -8.50 | 0.109 | -19.25 | -30.50 | 0.004 | -47.96 | -54.00 |
| 3.00 | 0.161 | -15.86 | -8.75 | 0.108 | -19.33 | -31.00 | 0.007 | -43.10 | -54.50 |
| 2.75 | 0.112 | -19.02 | -9.00 | 0.094 | -20.54 | -31.50 | 0.021 | -33.56 | -55.00 |
| 2.50 | 0.054 | -25.35 | -9.25 | 0.089 | -20.96 | -32.00 | 0.049 | -26.20 | -55.50 |
| 2.25 | 0.075 | -22.50 | -9.50 | 0.117 | -18.64 | -32.50 | 0.082 | -21.72 | -56.00 |
| 2.00 | 0.143 | -16.89 | -9.75 | 0.170 | -15.37 | -33.00 | 0.106 | -19.49 | -56.50 |
| 1.75 | 0.194 | -14.27 | -10.00 | 0.227 | -12.88 | -33.50 | 0.109 | -19.25 | -57.00 |
| 1.50 | 0.213 | -13.43 | -10.50 | 0.302 | -10.40 | -34.00 | 0.088 | -21.11 | -57.50 |
| 1.25 | 0.200 | -13.98 | -11.00 | 0.294 | -10.63 | -34.50 | 0.049 | -26.20 | -58.00 |
| 1.00 | 0.188 | -14.52 | -11.50 | 0.213 | -13.43 | -35.00 | 0.024 | -32.40 | -58.50 |
| 0.75 | 0.246 | -12.16 | -12.00 | 0.106 | -19.49 | -35.50 | 0.045 | -26.94 | -59.00 |
| 0.50 | 0.381 | -8.38 | -12.50 | 0.029 | -30.75 | -36.00 | 0.056 | -25.04 | -59.50 |
| 0.25 | 0.553 | -5.14 | -13.00 | 0.029 | -30.75 | -36.50 | 0.044 | -27.13 | -60.00 |
| 0.00 | 0.726 | -2.78 | -13.50 | 0.024 | -32.40 | -37.00 | 0.019 | -34.42 | -60.50 |
| -0.25 | 0.870 | -1.21 | -14.00 | 0.008 | -41.94 | -37.50 | 0.024 | -32.40 | -61.00 |
| -0.50 | 0.968 | -0.28 | -14.50 | 0.000 | -40.00 | -38.00 | 0.042 | -27.54 | -61.50 |
| -0.75 | 1.000 | 0.00 | -15.00 | 0.007 | -43.10 | -38.50 | 0.043 | -27.33 | -62.00 |
| -1.00 | 0.966 | -0.30 | -15.50 | 0.016 | -35.92 | -39.00 | 0.027 | -31.37 | -62.50 |
| -1.25 | 0.865 | -1.26 | -16.00 | 0.013 | -37.72 | -39.50 | 0.007 | -43.10 | -63.00 |
| -1.50 | 0.712 | -2.95 | -16.50 | 0.007 | -43.10 | -40.00 | 0.024 | -32.40 | -63.50 |
| -1.75 | 0.525 | -5.60 | -17.00 | 0.026 | -31.70 | -40.50 | 0.035 | -29.12 | -64.00 |
| -2.00 | 0.332 | -9.58 | -17.50 | 0.031 | -30.17 | -41.00 | 0.031 | -30.17 | -64.50 |
| -2.25 | 0.182 | -14.77 | -18.00 | 0.015 | -36.48 | -41.50 | 0.015 | -36.48 | -65.00 |
| -2.50 | 0.163 | -15.76 | -18.50 | 0.024 | -32.40 | -42.00 | 0.012 | -38.42 | -65.50 |
| -2.75 | 0.237 | -12.49 | -19.00 | 0.046 | -26.74 | -42.50 | 0.027 | -31.37 | -66.00 |
| -3.00 | 0.290 | -10.75 | -19.50 | 0.045 | -26.94 | -43.00 | 0.032 | -29.90 | -66.50 |
| -3.25 | 0.294 | -10.63 | -20.00 | 0.063 | -24.01 | -43.50 | 0.027 | -31.37 | -67.00 |
| -3.50 | 0.254 | -11.90 | -20.50 | 0.137 | -17.27 | -44.00 | 0.029 | -30.75 | -67.50 |
| -3.75 | 0.181 | -14.82 | -21.00 | 0.212 | -13.47 | -44.50 | 0.048 | -26.38 | -68.00 |
| -4.00 | 0.100 | -20.00 | -21.50 | 0.246 | -12.18 | -45.00 | 0.068 | -23.35 | -68.50 |
| -4.25 | 0.074 | -22.62 | -22.00 | 0.223 | -13.03 | -45.50 | 0.078 | -22.16 | -69.00 |
| -4.50 | 0.125 | -18.06 | -22.50 | 0.151 | -16.42 | -46.00 | 0.074 | -22.62 | -69.50 |
| -4.75 | 0.173 | -15.24 | -23.00 | 0.065 | -23.74 | -46.50 | 0.060 | -24.44 | -70.00 |
| -5.00 | 0.192 | -14.33 | -23.50 | 0.041 | -27.74 | -47.00 | 0.040 | -27.96 | -70.50 |
| -5.25 | 0.178 | -14.99 | -24.00 | 0.066 | -23.61 | -47.50 | 0.020 | -33.98 | -71.00 |
| -5.50 | 0.137 | -17.27 | -24.50 | 0.057 | -24.88 | -48.00 | 0.006 | -44.44 | -71.50 |
| -5.75 | 0.077 | -22.21 | -25.00 | 0.026 | -31.70 | -48.50 | 0.000 | -40.00 | -72.00 |
| -6.00 | 0.027 | -31.37 | -25.50 | 0.019 | -34.42 | -49.00 | 0.003 | -50.46 | -72.50 |
| -6.25 | 0.063 | -24.01 | -26.00 | 0.034 | -29.37 | -49.50 | 0.008 | -41.94 | -73.00 |
| -6.50 | 0.107 | -19.41 | -26.50 | 0.030 | -30.46 | -50.00 | 0.013 | -37.72 | -73.50 |

Preliminary, subject to final design and review.