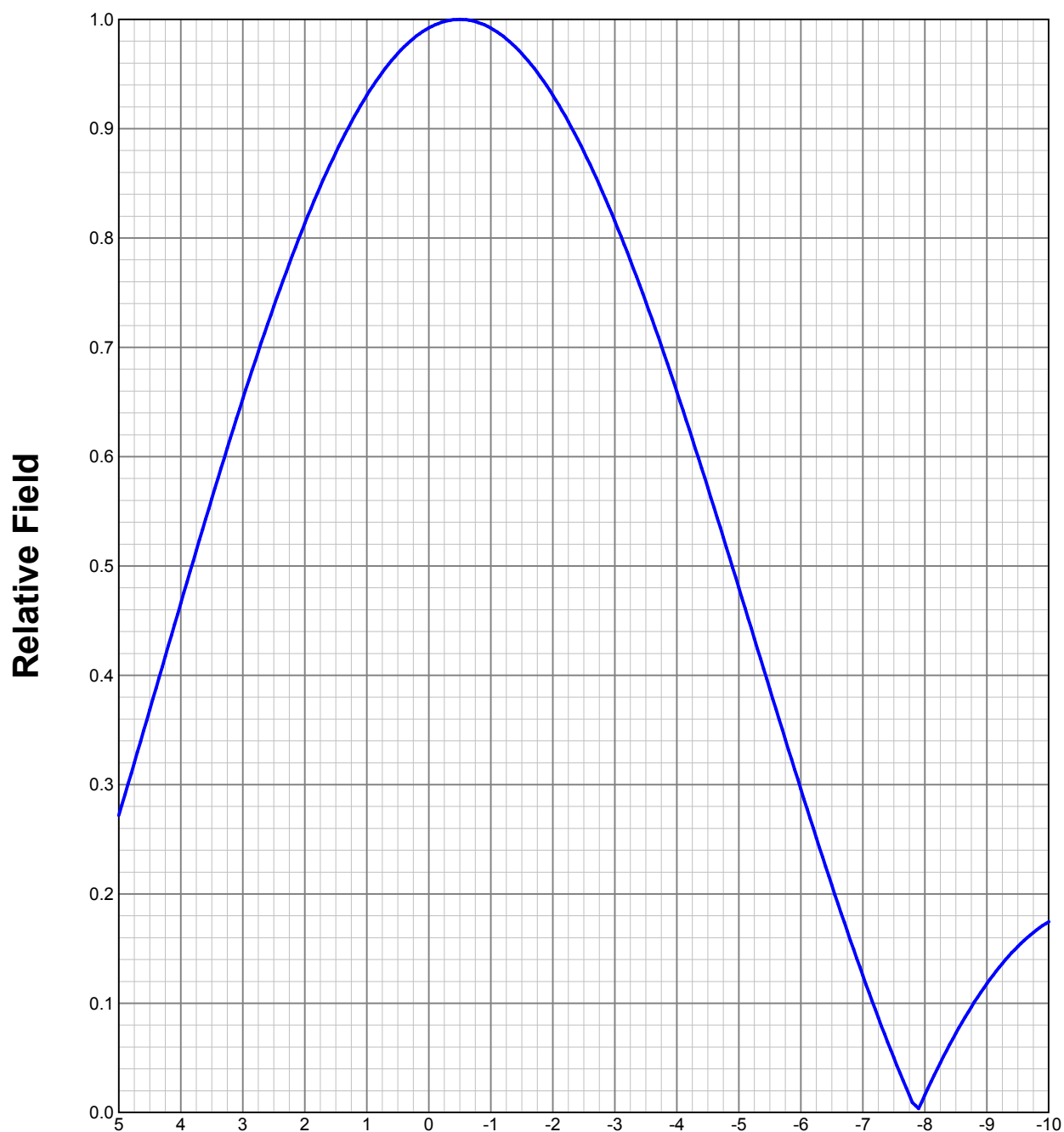


ELEVATION PATTERN**Type:****SHPX8F****Channel:****253****Directivity:****Numeric****dBd****Location:****Main Lobe:****4.45****6.49****Beam Tilt:****-0.50****Horizontal:****4.39****6.42****Polarization:****Circular***Preliminary, subject to final design and review.*

TABULATED DATA FOR ELEVATION PATTERN

Type: SHPX8F

Polarization: Circular

| ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB | ANGLEFIELD | dB |
|------------|-------|------------|--------|------------|--------|------------|-------|------------|--------|
| 5.00 | 0.272 | -11.31 | -6.75 | 0.166 | -15.61 | -27.00 | 0.095 | -20.41 | -50.50 |
| 4.75 | 0.320 | -9.90 | -7.00 | 0.125 | -18.04 | -27.50 | 0.088 | -21.14 | -51.00 |
| 4.50 | 0.369 | -8.67 | -7.25 | 0.087 | -21.23 | -28.00 | 0.076 | -22.34 | -51.50 |
| 4.25 | 0.417 | -7.59 | -7.50 | 0.050 | -26.00 | -28.50 | 0.062 | -24.18 | -52.00 |
| 4.00 | 0.466 | -6.63 | -7.75 | 0.016 | -36.02 | -29.00 | 0.045 | -26.99 | -52.50 |
| 3.75 | 0.514 | -5.78 | -8.00 | 0.016 | -35.80 | -29.50 | 0.026 | -31.80 | -53.00 |
| 3.50 | 0.562 | -5.01 | -8.25 | 0.046 | -26.82 | -30.00 | 0.005 | -45.22 | -53.50 |
| 3.25 | 0.608 | -4.32 | -8.50 | 0.073 | -22.79 | -30.50 | 0.015 | -36.36 | -54.00 |
| 3.00 | 0.653 | -3.70 | -8.75 | 0.097 | -20.30 | -31.00 | 0.036 | -28.96 | -54.50 |
| 2.75 | 0.696 | -3.15 | -9.00 | 0.118 | -18.57 | -31.50 | 0.055 | -25.17 | -55.00 |
| 2.50 | 0.738 | -2.64 | -9.25 | 0.136 | -17.31 | -32.00 | 0.073 | -22.72 | -55.50 |
| 2.25 | 0.777 | -2.20 | -9.50 | 0.152 | -16.36 | -32.50 | 0.089 | -21.02 | -56.00 |
| 2.00 | 0.813 | -1.79 | -9.75 | 0.165 | -15.66 | -33.00 | 0.102 | -19.81 | -56.50 |
| 1.75 | 0.847 | -1.44 | -10.00 | 0.175 | -15.15 | -33.50 | 0.112 | -18.98 | -57.00 |
| 1.50 | 0.878 | -1.13 | -10.50 | 0.186 | -14.60 | -34.00 | 0.119 | -18.45 | -57.50 |
| 1.25 | 0.906 | -0.86 | -11.00 | 0.187 | -14.55 | -34.50 | 0.123 | -18.19 | -58.00 |
| 1.00 | 0.931 | -0.63 | -11.50 | 0.179 | -14.95 | -35.00 | 0.123 | -18.18 | -58.50 |
| 0.75 | 0.951 | -0.43 | -12.00 | 0.162 | -15.82 | -35.50 | 0.120 | -18.41 | -59.00 |
| 0.50 | 0.969 | -0.27 | -12.50 | 0.138 | -17.22 | -36.00 | 0.114 | -18.88 | -59.50 |
| 0.25 | 0.982 | -0.15 | -13.00 | 0.108 | -19.32 | -36.50 | 0.104 | -19.63 | -60.00 |
| 0.00 | 0.992 | -0.07 | -13.50 | 0.075 | -22.53 | -37.00 | 0.092 | -20.70 | -60.50 |
| -0.25 | 0.998 | -0.02 | -14.00 | 0.039 | -28.18 | -37.50 | 0.078 | -22.16 | -61.00 |
| -0.50 | 1.000 | 0.00 | -14.50 | 0.003 | -51.48 | -38.00 | 0.062 | -24.17 | -61.50 |
| -0.75 | 0.998 | -0.02 | -15.00 | 0.033 | -29.69 | -38.50 | 0.045 | -27.03 | -62.00 |
| -1.00 | 0.992 | -0.07 | -15.50 | 0.066 | -23.63 | -39.00 | 0.026 | -31.60 | -62.50 |
| -1.25 | 0.982 | -0.16 | -16.00 | 0.095 | -20.41 | -39.50 | 0.008 | -42.11 | -63.00 |
| -1.50 | 0.969 | -0.28 | -16.50 | 0.120 | -18.38 | -40.00 | 0.010 | -39.67 | -63.50 |
| -1.75 | 0.951 | -0.43 | -17.00 | 0.140 | -17.07 | -40.50 | 0.028 | -31.09 | -64.00 |
| -2.00 | 0.931 | -0.62 | -17.50 | 0.154 | -16.26 | -41.00 | 0.044 | -27.08 | -64.50 |
| -2.25 | 0.906 | -0.85 | -18.00 | 0.162 | -15.83 | -41.50 | 0.059 | -24.59 | -65.00 |
| -2.50 | 0.879 | -1.12 | -18.50 | 0.163 | -15.76 | -42.00 | 0.072 | -22.88 | -65.50 |
| -2.75 | 0.849 | -1.43 | -19.00 | 0.159 | -16.00 | -42.50 | 0.082 | -21.69 | -66.00 |
| -3.00 | 0.815 | -1.77 | -19.50 | 0.149 | -16.56 | -43.00 | 0.090 | -20.88 | -66.50 |
| -3.25 | 0.780 | -2.16 | -20.00 | 0.134 | -17.48 | -43.50 | 0.096 | -20.38 | -67.00 |
| -3.50 | 0.742 | -2.60 | -20.50 | 0.115 | -18.82 | -44.00 | 0.098 | -20.14 | -67.50 |
| -3.75 | 0.701 | -3.08 | -21.00 | 0.092 | -20.69 | -44.50 | 0.098 | -20.16 | -68.00 |
| -4.00 | 0.660 | -3.62 | -21.50 | 0.068 | -23.36 | -45.00 | 0.095 | -20.42 | -68.50 |
| -4.25 | 0.616 | -4.21 | -22.00 | 0.042 | -27.47 | -45.50 | 0.090 | -20.94 | -69.00 |
| -4.50 | 0.572 | -4.86 | -22.50 | 0.016 | -35.66 | -46.00 | 0.082 | -21.76 | -69.50 |
| -4.75 | 0.526 | -5.58 | -23.00 | 0.009 | -41.40 | -46.50 | 0.071 | -22.94 | -70.00 |
| -5.00 | 0.480 | -6.37 | -23.50 | 0.032 | -29.96 | -47.00 | 0.059 | -24.60 | -70.50 |
| -5.25 | 0.434 | -7.26 | -24.00 | 0.052 | -25.60 | -47.50 | 0.045 | -26.99 | -71.00 |
| -5.50 | 0.387 | -8.24 | -24.50 | 0.070 | -23.10 | -48.00 | 0.029 | -30.74 | -71.50 |
| -5.75 | 0.341 | -9.34 | -25.00 | 0.084 | -21.55 | -48.50 | 0.012 | -38.21 | -72.00 |
| -6.00 | 0.296 | -10.58 | -25.50 | 0.093 | -20.61 | -49.00 | 0.005 | -45.59 | -72.50 |
| -6.25 | 0.251 | -12.00 | -26.00 | 0.098 | -20.15 | -49.50 | 0.023 | -32.68 | -73.00 |
| -6.50 | 0.208 | -13.64 | -26.50 | 0.099 | -20.09 | -50.00 | 0.041 | -27.68 | -73.50 |

Preliminary, subject to final design and review.