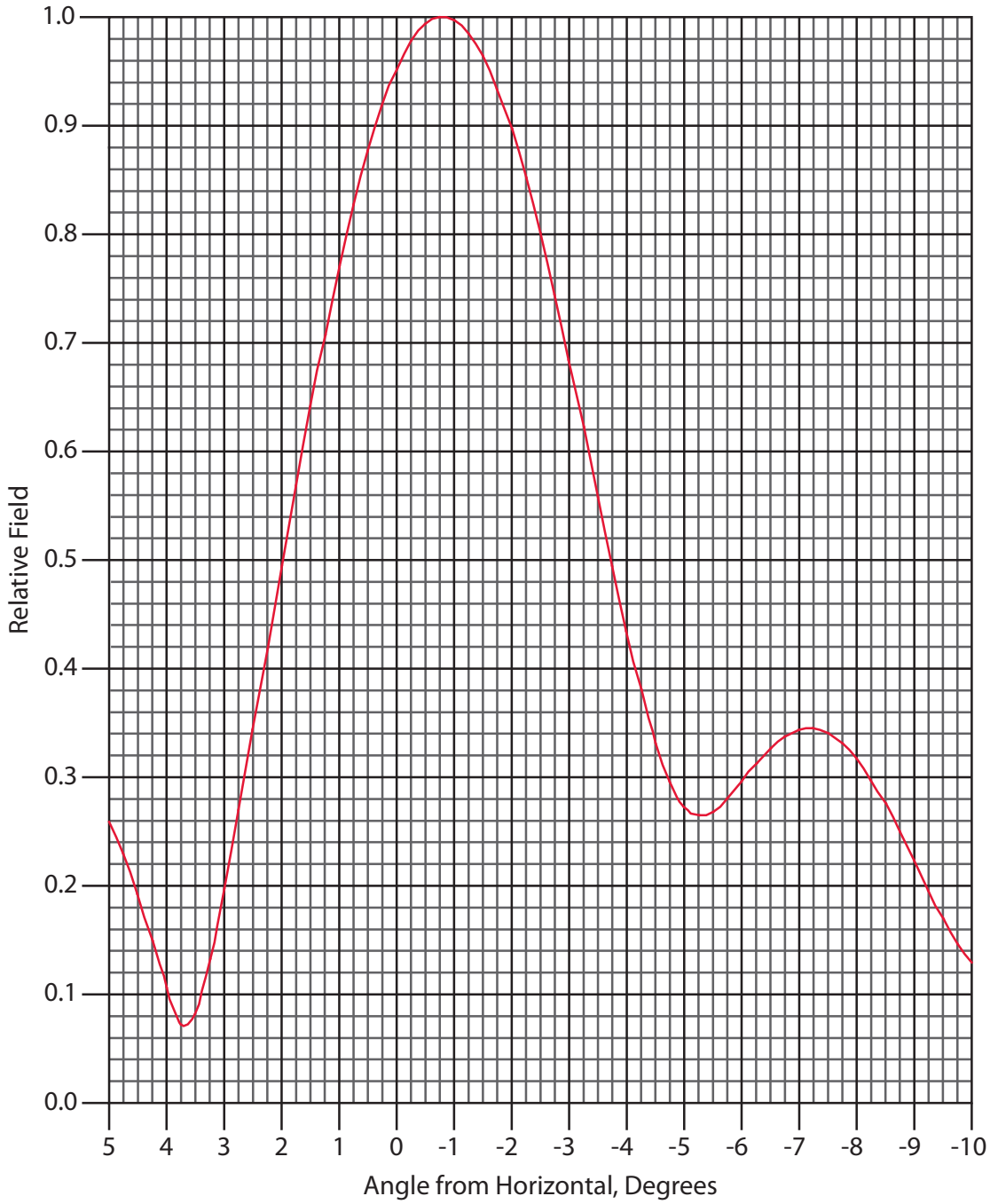
## Elevation Pattern

| | | |
|---|---|---|
| **Type:** | ATW12H3H | |
| **Directivity** | *Numeric* | *dBd* |
| **Main Lobe:** | 12.00 | (10.79) |
| **Horizontal:** | 10.90 | (10.37) |
| **Beam Tilt** | -0.75 ° | |
| **Polarization:** | Horizontal | |
| **Frequency:** | | |
| **Location:** | | |

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# Tabulated Data for Elevation Pattern

## Type: ATW12H3H

-5 to 10 degrees in 0.25 degree increments
10 to 90 degrees in 0.50 degree increments

| Angle | Field | dB |
|---|---|---|
| 5.00 | 0.259 | -11.73 |
| 4.75 | 0.229 | -12.80 |
| 4.50 | 0.192 | -14.33 |
| 4.25 | 0.150 | -16.48 |
| 4.00 | 0.106 | -19.49 |
| 3.75 | 0.073 | -22.73 |
| 3.50 | 0.082 | -21.72 |
| 3.25 | 0.132 | -17.59 |
| 3.00 | 0.197 | -14.11 |
| 2.75 | 0.269 | -11.40 |
| 2.50 | 0.343 | -9.29 |
| 2.25 | 0.419 | -7.56 |
| 2.00 | 0.495 | -6.11 |
| 1.75 | 0.569 | -4.90 |
| 1.50 | 0.641 | -3.86 |
| 1.25 | 0.708 | -3.00 |
| 1.00 | 0.771 | -2.26 |
| 0.75 | 0.827 | -1.65 |
| 0.50 | 0.877 | -1.14 |
| 0.25 | 0.919 | -0.73 |
| 0.00 | 0.953 | -0.42 |
| -0.25 | 0.978 | -0.19 |
| -0.50 | 0.994 | -0.05 |
| -0.75 | 1.000 | 0.00 |
| -1.00 | 0.997 | -0.03 |
| -1.25 | 0.985 | -0.13 |
| -1.50 | 0.964 | -0.32 |
| -1.75 | 0.934 | -0.59 |
| -2.00 | 0.896 | -0.95 |
| -2.25 | 0.852 | -1.39 |
| -2.50 | 0.801 | -1.93 |
| -2.75 | 0.744 | -2.57 |
| -3.00 | 0.684 | -3.30 |
| -3.25 | 0.622 | -4.12 |
| -3.50 | 0.558 | -5.07 |
| -3.75 | 0.495 | -6.11 |
| -4.00 | 0.435 | -7.23 |
| -4.25 | 0.380 | -8.40 |
| -4.50 | 0.332 | -9.58 |
| -4.75 | 0.296 | -10.57 |
| -5.00 | 0.273 | -11.28 |
| -5.25 | 0.265 | -11.54 |
| -5.50 | 0.268 | -11.44 |
| -5.75 | 0.280 | -11.06 |
| -6.00 | 0.296 | -10.57 |

| Angle | Field | dB |
|---|---|---|
| -6.25 | 0.313 | -10.09 |
| -6.50 | 0.327 | -9.71 |
| -6.75 | 0.338 | -9.42 |
| -7.00 | 0.344 | -9.27 |
| -7.25 | 0.345 | -9.24 |
| -7.50 | 0.341 | -9.34 |
| -7.75 | 0.331 | -9.60 |
| -8.00 | 0.317 | -9.98 |
| -8.25 | 0.298 | -10.52 |
| -8.50 | 0.276 | -11.18 |
| -8.75 | 0.250 | -12.04 |
| -9.00 | 0.223 | -13.03 |
| -9.25 | 0.196 | -14.15 |
| -9.50 | 0.170 | -15.39 |
| -9.75 | 0.147 | -16.65 |
| -10.00 | 0.130 | -17.72 |
| -10.50 | 0.121 | -18.34 |
| -11.00 | 0.142 | -16.95 |
| -11.50 | 0.169 | -15.44 |
| -12.00 | 0.190 | -14.42 |
| -12.50 | 0.198 | -14.07 |
| -13.00 | 0.191 | -14.38 |
| -13.50 | 0.172 | -15.29 |
| -14.00 | 0.142 | -16.95 |
| -14.50 | 0.110 | -19.17 |
| -15.00 | 0.083 | -21.62 |
| -15.50 | 0.077 | -22.27 |
| -16.00 | 0.092 | -20.72 |
| -16.50 | 0.114 | -18.86 |
| -17.00 | 0.132 | -17.59 |
| -17.50 | 0.141 | -17.02 |
| -18.00 | 0.140 | -17.08 |
| -18.50 | 0.129 | -17.79 |
| -19.00 | 0.110 | -19.17 |
| -19.50 | 0.086 | -21.31 |
| -20.00 | 0.065 | -23.74 |
| -20.50 | 0.056 | -25.04 |
| -21.00 | 0.066 | -23.61 |
| -21.50 | 0.084 | -21.51 |
| -22.00 | 0.101 | -19.91 |
| -22.50 | 0.111 | -19.09 |
| -23.00 | 0.114 | -18.86 |
| -23.50 | 0.109 | -19.25 |
| -24.00 | 0.097 | -20.26 |
| -24.50 | 0.080 | -21.94 |

| Angle | Field | dB |
|---|---|---|
| -25.00 | 0.061 | -24.29 |
| -25.50 | 0.047 | -26.56 |
| -26.00 | 0.047 | -26.56 |
| -26.50 | 0.060 | -24.44 |
| -27.00 | 0.076 | -22.38 |
| -27.50 | 0.089 | -21.01 |
| -28.00 | 0.097 | -20.26 |
| -28.50 | 0.098 | -20.18 |
| -29.00 | 0.093 | -20.63 |
| -29.50 | 0.082 | -21.72 |
| -30.00 | 0.068 | -23.35 |
| -30.50 | 0.052 | -25.68 |
| -31.00 | 0.040 | -27.96 |
| -31.50 | 0.040 | -27.96 |
| -32.00 | 0.051 | -25.85 |
| -32.50 | 0.066 | -23.61 |
| -33.00 | 0.078 | -22.16 |
| -33.50 | 0.086 | -21.31 |
| -34.00 | 0.090 | -20.92 |
| -34.50 | 0.088 | -21.11 |
| -35.00 | 0.081 | -21.83 |
| -35.50 | 0.069 | -23.22 |
| -36.00 | 0.056 | -25.04 |
| -36.50 | 0.042 | -27.54 |
| -37.00 | 0.034 | -29.37 |
| -37.50 | 0.037 | -28.64 |
| -38.00 | 0.048 | -26.38 |
| -38.50 | 0.061 | -24.29 |
| -39.00 | 0.073 | -22.73 |
| -39.50 | 0.081 | -21.83 |
| -40.00 | 0.085 | -21.41 |
| -40.50 | 0.084 | -21.51 |
| -41.00 | 0.079 | -22.05 |
| -41.50 | 0.070 | -23.10 |
| -42.00 | 0.059 | -24.58 |
| -42.50 | 0.046 | -26.74 |
| -43.00 | 0.034 | -29.37 |
| -43.50 | 0.030 | -30.46 |
| -44.00 | 0.036 | -28.87 |
| -44.50 | 0.048 | -26.38 |
| -45.00 | 0.060 | -24.44 |
| -45.50 | 0.071 | -22.97 |
| -46.00 | 0.080 | -21.94 |
| -46.50 | 0.085 | -21.41 |
| -47.00 | 0.086 | -21.31 |

| Angle | Field | dB |
|---|---|---|
| -47.50 | 0.083 | -21.62 |
| -48.00 | 0.077 | -22.27 |
| -48.50 | 0.068 | -23.35 |
| -49.00 | 0.057 | -24.88 |
| -49.50 | 0.044 | -27.13 |
| -50.00 | 0.033 | -29.63 |
| -50.50 | 0.026 | -31.70 |
| -51.00 | 0.029 | -30.75 |
| -51.50 | 0.040 | -27.96 |
| -52.00 | 0.052 | -25.68 |
| -52.50 | 0.064 | -23.88 |
| -53.00 | 0.075 | -22.50 |
| -53.50 | 0.083 | -21.62 |
| -54.00 | 0.089 | -21.01 |
| -54.50 | 0.091 | -20.82 |
| -55.00 | 0.091 | -20.82 |
| -55.50 | 0.088 | -21.11 |
| -56.00 | 0.082 | -21.72 |
| -56.50 | 0.073 | -22.73 |
| -57.00 | 0.063 | -24.01 |
| -57.50 | 0.051 | -25.85 |
| -58.00 | 0.038 | -28.40 |
| -58.50 | 0.025 | -32.04 |
| -59.00 | 0.017 | -35.39 |
| -59.50 | 0.021 | -33.56 |
| -60.00 | 0.032 | -29.90 |
| -60.50 | 0.046 | -26.74 |
| -61.00 | 0.059 | -24.58 |
| -61.50 | 0.071 | -22.97 |
| -62.00 | 0.082 | -21.72 |
| -62.50 | 0.091 | -20.82 |
| -63.00 | 0.099 | -20.09 |
| -63.50 | 0.105 | -19.58 |
| -64.00 | 0.109 | -19.25 |
| -64.50 | 0.111 | -19.09 |
| -65.00 | 0.111 | -19.09 |
| -65.50 | 0.109 | -19.25 |
| -66.00 | 0.106 | -19.49 |
| -66.50 | 0.102 | -19.83 |
| -67.00 | 0.096 | -20.35 |
| -67.50 | 0.088 | -21.11 |
| -68.00 | 0.080 | -21.94 |
| -68.50 | 0.071 | -22.97 |
| -69.00 | 0.062 | -24.15 |
| -69.50 | 0.052 | -25.68 |

| Angle | Field | dB |
|---|---|---|
| -70.00 | 0.042 | -27.54 |
| -70.50 | 0.032 | -29.90 |
| -71.00 | 0.022 | -33.15 |
| -71.50 | 0.014 | -37.08 |
| -72.00 | 0.011 | -39.17 |
| -72.50 | 0.016 | -35.92 |
| -73.00 | 0.023 | -32.77 |
| -73.50 | 0.031 | -30.17 |
| -74.00 | 0.038 | -28.40 |
| -74.50 | 0.046 | -26.74 |
| -75.00 | 0.052 | -25.68 |
| -75.50 | 0.058 | -24.73 |
| -76.00 | 0.063 | -24.01 |
| -76.50 | 0.067 | -23.48 |
| -77.00 | 0.071 | -22.97 |
| -77.50 | 0.074 | -22.62 |
| -78.00 | 0.076 | -22.38 |
| -78.50 | 0.078 | -22.16 |
| -79.00 | 0.078 | -22.16 |
| -79.50 | 0.079 | -22.05 |
| -80.00 | 0.078 | -22.16 |
| -80.50 | 0.078 | -22.16 |
| -81.00 | 0.076 | -22.38 |
| -81.50 | 0.074 | -22.62 |
| -82.00 | 0.072 | -22.85 |
| -82.50 | 0.069 | -23.22 |
| -83.00 | 0.066 | -23.61 |
| -83.50 | 0.063 | -24.01 |
| -84.00 | 0.059 | -24.58 |
| -84.50 | 0.055 | -25.19 |
| -85.00 | 0.051 | -25.85 |
| -85.50 | 0.046 | -26.74 |
| -86.00 | 0.041 | -27.74 |
| -86.50 | 0.037 | -28.64 |
| -87.00 | 0.032 | -29.90 |
| -87.50 | 0.027 | -31.37 |
| -88.00 | 0.021 | -33.56 |
| -88.50 | 0.016 | -35.92 |
| -89.00 | 0.011 | -39.17 |
| -89.50 | 0.005 | -46.02 |
| -90.00 | 0.000 | --- |

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