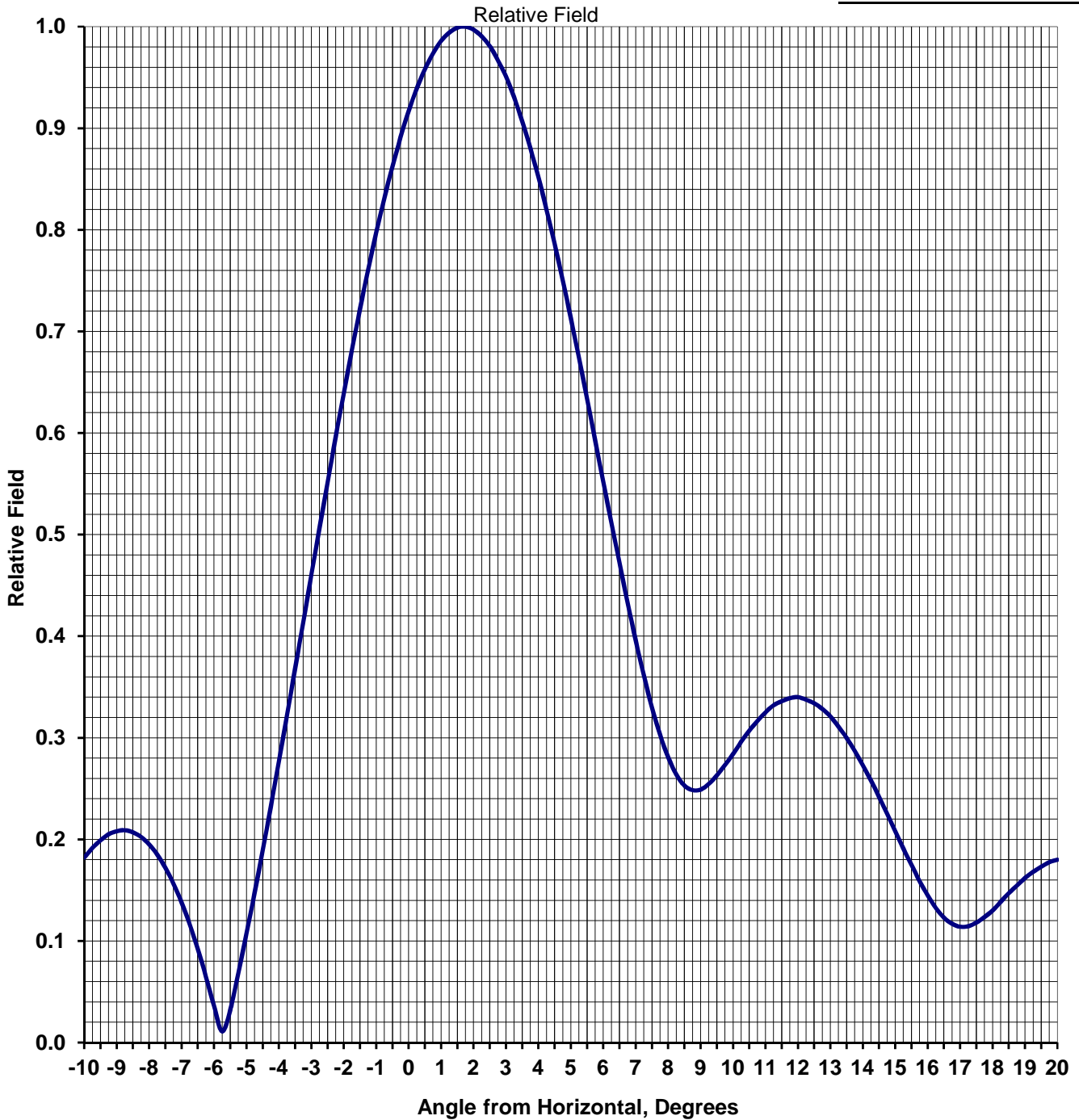


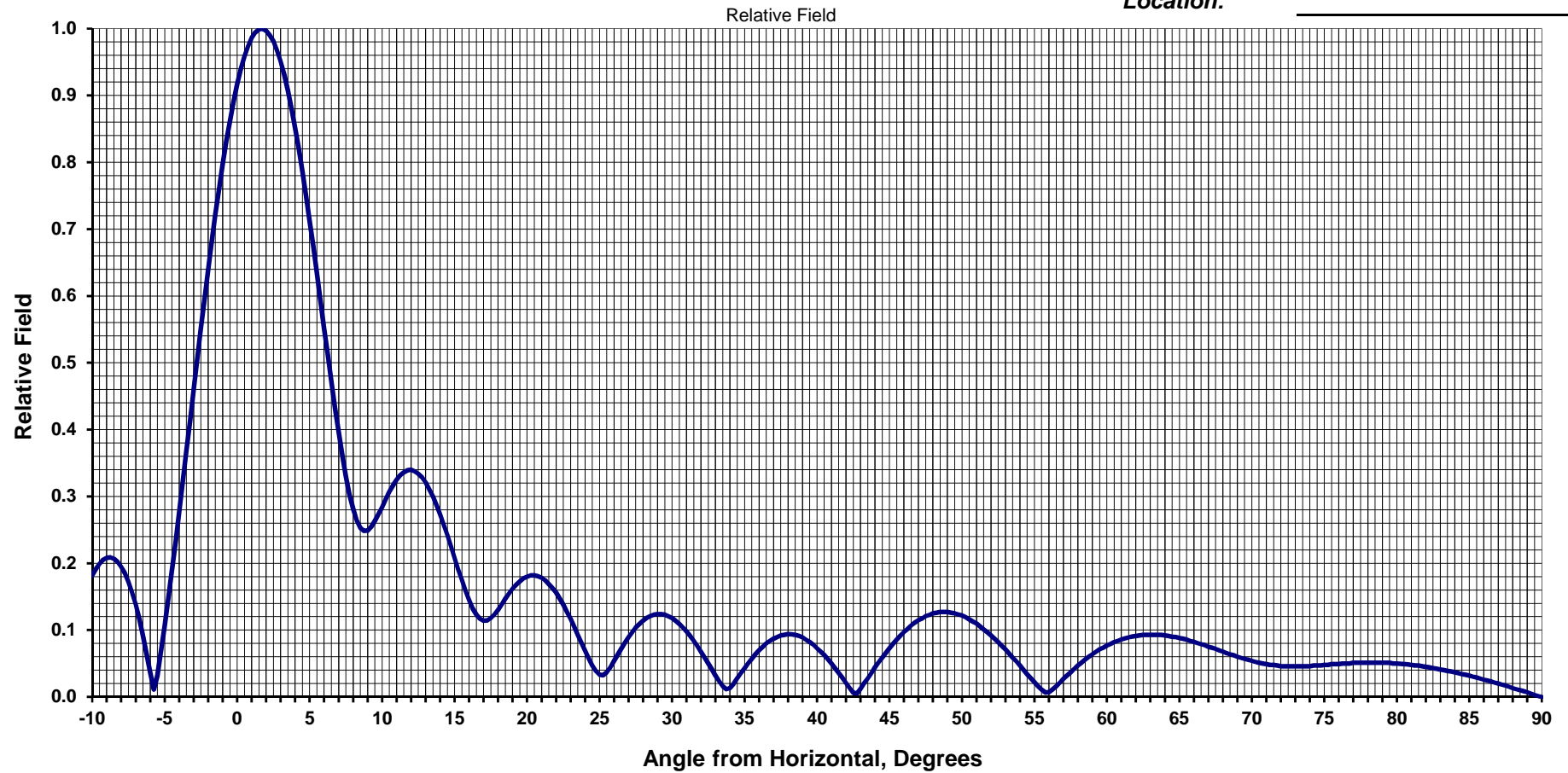
### ELEVATION PATTERN

|                      |                     |               |
|----------------------|---------------------|---------------|
| <b>TYPE:</b>         | <b>LAL8L7H</b>      |               |
| <b>Directivity:</b>  | <b>Numeric</b>      | <b>dBd</b>    |
| <b>Main Lobe:</b>    | <b>8.37</b>         | <b>(9.23)</b> |
| <b>Horizontal:</b>   | <b>7.04</b>         | <b>(8.47)</b> |
| <b>Beam Tilt:</b>    | <b>1.75 Degrees</b> |               |
| <b>Polarization:</b> | <b>Horizontal</b>   |               |
| <b>Channel:</b>      |                     |               |
| <b>Location:</b>     |                     |               |



**ELEVATION PATTERN**

|                      |                     |             |
|----------------------|---------------------|-------------|
| <b>TYPE:</b>         | <b>LAL8L7H</b>      |             |
| <b>Directivity:</b>  | <b>Numeric</b>      | <b>dBd</b>  |
| <b>Main Lobe:</b>    | <b>8.37</b>         | <b>9.23</b> |
| <b>Horizontal:</b>   | <b>7.04</b>         | <b>8.47</b> |
| <b>Beam Tilt:</b>    | <b>1.75 Degrees</b> |             |
| <b>Polarization:</b> | <b>Horizontal</b>   |             |
| <b>Frequency:</b>    |                     |             |
| <b>Location:</b>     |                     |             |



# TABULATED DATA FOR ELEVATION PATTERN

TYPE: LAL8L7H

-10 to 10 degrees in 0.25 increments

10 to 90 degrees in 0.50 increments

| ANGLE  | FIELD | dB     | ANGLE | FIELD | dB     | ANGLE | FIELD | dB     | ANGLE | FIELD | dB     | ANGLE | FIELD | dB     |
|--------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|
| -10.00 | 0.182 | -14.80 | 2.25  | 0.991 | -0.08  | 18.50 | 0.147 | -16.65 | 43.00 | 0.012 | -38.42 | 67.50 | 0.072 | -22.85 |
| -9.75  | 0.192 | -14.36 | 2.50  | 0.981 | -0.17  | 19.00 | 0.162 | -15.81 | 43.50 | 0.028 | -31.06 | 68.00 | 0.068 | -23.35 |
| -9.50  | 0.199 | -14.02 | 2.75  | 0.967 | -0.29  | 19.50 | 0.173 | -15.24 | 44.00 | 0.044 | -27.13 | 68.50 | 0.064 | -23.88 |
| -9.25  | 0.205 | -13.76 | 3.00  | 0.951 | -0.44  | 20.00 | 0.180 | -14.89 | 44.50 | 0.059 | -24.58 | 69.00 | 0.060 | -24.44 |
| -9.00  | 0.208 | -13.64 | 3.25  | 0.931 | -0.63  | 20.50 | 0.182 | -14.80 | 45.00 | 0.073 | -22.73 | 69.50 | 0.057 | -24.88 |
| -8.75  | 0.209 | -13.60 | 3.50  | 0.907 | -0.85  | 21.00 | 0.178 | -14.99 | 45.50 | 0.086 | -21.31 | 70.00 | 0.054 | -25.35 |
| -8.50  | 0.207 | -13.68 | 3.75  | 0.881 | -1.11  | 21.50 | 0.169 | -15.44 | 46.00 | 0.097 | -20.26 | 70.50 | 0.051 | -25.85 |
| -8.25  | 0.203 | -13.87 | 4.00  | 0.852 | -1.39  | 22.00 | 0.156 | -16.14 | 46.50 | 0.107 | -19.41 | 71.00 | 0.049 | -26.20 |
| -8.00  | 0.195 | -14.20 | 4.25  | 0.820 | -1.72  | 22.50 | 0.138 | -17.20 | 47.00 | 0.115 | -18.79 | 71.50 | 0.048 | -26.38 |
| -7.75  | 0.185 | -14.66 | 4.50  | 0.786 | -2.09  | 23.00 | 0.117 | -18.64 | 47.50 | 0.121 | -18.34 | 72.00 | 0.046 | -26.74 |
| -7.50  | 0.172 | -15.29 | 4.75  | 0.751 | -2.49  | 23.50 | 0.093 | -20.63 | 48.00 | 0.125 | -18.06 | 72.50 | 0.046 | -26.74 |
| -7.25  | 0.157 | -16.11 | 5.00  | 0.713 | -2.94  | 24.00 | 0.069 | -23.22 | 48.50 | 0.127 | -17.92 | 73.00 | 0.046 | -26.74 |
| -7.00  | 0.138 | -17.20 | 5.25  | 0.674 | -3.43  | 24.50 | 0.047 | -26.56 | 49.00 | 0.127 | -17.92 | 73.50 | 0.046 | -26.74 |
| -6.75  | 0.117 | -18.67 | 5.50  | 0.634 | -3.96  | 25.00 | 0.033 | -29.63 | 49.50 | 0.125 | -18.06 | 74.00 | 0.046 | -26.74 |
| -6.50  | 0.092 | -20.72 | 5.75  | 0.593 | -4.54  | 25.50 | 0.037 | -28.64 | 50.00 | 0.122 | -18.27 | 74.50 | 0.047 | -26.56 |
| -6.25  | 0.065 | -23.74 | 6.00  | 0.552 | -5.16  | 26.00 | 0.054 | -25.35 | 50.50 | 0.116 | -18.71 | 75.00 | 0.048 | -26.38 |
| -6.00  | 0.036 | -28.87 | 6.25  | 0.512 | -5.81  | 26.50 | 0.072 | -22.85 | 51.00 | 0.110 | -19.17 | 75.50 | 0.049 | -26.20 |
| -5.75  | 0.011 | -39.17 | 6.50  | 0.472 | -6.52  | 27.00 | 0.089 | -21.01 | 51.50 | 0.101 | -19.91 | 76.00 | 0.049 | -26.20 |
| -5.50  | 0.032 | -29.90 | 6.75  | 0.433 | -7.27  | 27.50 | 0.104 | -19.66 | 52.00 | 0.092 | -20.72 | 76.50 | 0.050 | -26.02 |
| -5.25  | 0.069 | -23.29 | 7.00  | 0.396 | -8.05  | 28.00 | 0.114 | -18.86 | 52.50 | 0.082 | -21.72 | 77.00 | 0.051 | -25.85 |
| -5.00  | 0.107 | -19.41 | 7.25  | 0.362 | -8.84  | 28.50 | 0.121 | -18.34 | 53.00 | 0.071 | -22.97 | 77.50 | 0.051 | -25.85 |
| -4.75  | 0.147 | -16.65 | 7.50  | 0.330 | -9.63  | 29.00 | 0.124 | -18.13 | 53.50 | 0.059 | -24.58 | 78.00 | 0.051 | -25.85 |
| -4.50  | 0.189 | -14.47 | 7.75  | 0.303 | -10.37 | 29.50 | 0.123 | -18.20 | 54.00 | 0.047 | -26.56 | 78.50 | 0.051 | -25.85 |
| -4.25  | 0.232 | -12.69 | 8.00  | 0.281 | -11.03 | 30.00 | 0.118 | -18.56 | 54.50 | 0.034 | -29.37 | 79.00 | 0.051 | -25.85 |
| -4.00  | 0.277 | -11.15 | 8.25  | 0.264 | -11.57 | 30.50 | 0.109 | -19.25 | 55.00 | 0.022 | -33.15 | 79.50 | 0.051 | -25.85 |
| -3.75  | 0.322 | -9.84  | 8.50  | 0.253 | -11.94 | 31.00 | 0.098 | -20.18 | 55.50 | 0.011 | -39.17 | 80.00 | 0.050 | -26.02 |
| -3.50  | 0.368 | -8.68  | 8.75  | 0.249 | -12.09 | 31.50 | 0.084 | -21.51 | 56.00 | 0.007 | -43.10 | 80.50 | 0.049 | -26.20 |
| -3.25  | 0.414 | -7.67  | 9.00  | 0.249 | -12.08 | 32.00 | 0.068 | -23.35 | 56.50 | 0.016 | -35.92 | 81.00 | 0.048 | -26.38 |
| -3.00  | 0.460 | -6.74  | 9.25  | 0.255 | -11.89 | 32.50 | 0.050 | -26.02 | 57.00 | 0.027 | -31.37 | 81.50 | 0.047 | -26.56 |
| -2.75  | 0.506 | -5.92  | 9.50  | 0.263 | -11.60 | 33.00 | 0.032 | -29.90 | 57.50 | 0.037 | -28.64 | 82.00 | 0.045 | -26.94 |
| -2.50  | 0.551 | -5.18  | 9.75  | 0.273 | -11.28 | 33.50 | 0.016 | -35.92 | 58.00 | 0.047 | -26.56 | 82.50 | 0.043 | -27.33 |
| -2.25  | 0.596 | -4.50  | 10.00 | 0.284 | -10.93 | 34.00 | 0.013 | -37.72 | 58.50 | 0.056 | -25.04 | 83.00 | 0.041 | -27.74 |
| -2.00  | 0.639 | -3.89  | 10.25 | 0.296 | -10.57 | 34.50 | 0.028 | -31.06 | 59.00 | 0.064 | -23.88 | 83.50 | 0.039 | -28.18 |
| -1.75  | 0.682 | -3.33  | 10.50 | 0.307 | -10.26 | 35.00 | 0.043 | -27.33 | 59.50 | 0.071 | -22.97 | 84.00 | 0.037 | -28.64 |
| -1.50  | 0.722 | -2.83  | 11.00 | 0.325 | -9.76  | 35.50 | 0.057 | -24.88 | 60.00 | 0.077 | -22.27 | 84.50 | 0.03  | -29.37 |
| -1.25  | 0.761 | -2.38  | 11.50 | 0.336 | -9.47  | 36.00 | 0.070 | -23.10 | 60.50 | 0.082 | -21.72 | 85.00 | 0.03  | -29.90 |
| -1.00  | 0.797 | -1.97  | 12.00 | 0.340 | -9.37  | 36.50 | 0.080 | -21.94 | 61.00 | 0.086 | -21.31 | 85.50 | 0.03  | -30.75 |
| -0.75  | 0.831 | -1.61  | 12.50 | 0.334 | -9.53  | 37.00 | 0.087 | -21.21 | 61.50 | 0.089 | -21.01 | 86.00 | 0.03  | -31.70 |
| -0.50  | 0.862 | -1.29  | 13.00 | 0.321 | -9.87  | 37.50 | 0.092 | -20.72 | 62.00 | 0.091 | -20.82 | 86.50 | 0.02  | -32.77 |
| -0.25  | 0.891 | -1.00  | 13.50 | 0.300 | -10.46 | 38.00 | 0.094 | -20.54 | 62.50 | 0.093 | -20.63 | 87.00 | 0.02  | -33.98 |
| 0.00   | 0.917 | -0.75  | 14.00 | 0.273 | -11.28 | 38.50 | 0.093 | -20.63 | 63.00 | 0.093 | -20.63 | 87.50 | 0.02  | -35.39 |
| 0.25   | 0.939 | -0.55  | 14.50 | 0.242 | -12.32 | 39.00 | 0.089 | -21.01 | 63.50 | 0.093 | -20.63 | 88.00 | 0.01  | -37.72 |
| 0.50   | 0.958 | -0.37  | 15.00 | 0.208 | -13.64 | 39.50 | 0.082 | -21.72 | 64.00 | 0.092 | -20.72 | 88.50 | 0.01  | -40.00 |
| 0.75   | 0.974 | -0.23  | 15.50 | 0.175 | -15.14 | 40.00 | 0.073 | -22.73 | 64.50 | 0.090 | -20.92 | 89.00 | 0.01  | -43.10 |
| 1.00   | 0.986 | -0.12  | 16.00 | 0.145 | -16.77 | 40.50 | 0.063 | -24.01 | 65.00 | 0.088 | -21.11 | 89.50 | 0.00  | -50.46 |
| 1.25   | 0.994 | -0.05  | 16.50 | 0.123 | -18.20 | 41.00 | 0.050 | -26.02 | 65.50 | 0.086 | -21.31 | 90.00 | 0.00  | ---    |
| 1.50   | 0.999 | -0.01  | 17.00 | 0.114 | -18.86 | 41.50 | 0.036 | -28.87 | 66.00 | 0.082 | -21.72 |       |       |        |
| 1.75   | 1.000 | 0.00   | 17.50 | 0.118 | -18.56 | 42.00 | 0.021 | -33.56 | 66.50 | 0.079 | -22.05 |       |       |        |
| 2.00   | 0.997 | -0.03  | 18.00 | 0.130 | -17.72 | 42.50 | 0.006 | -44.44 | 67.00 | 0.075 | -22.50 |       |       |        |

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