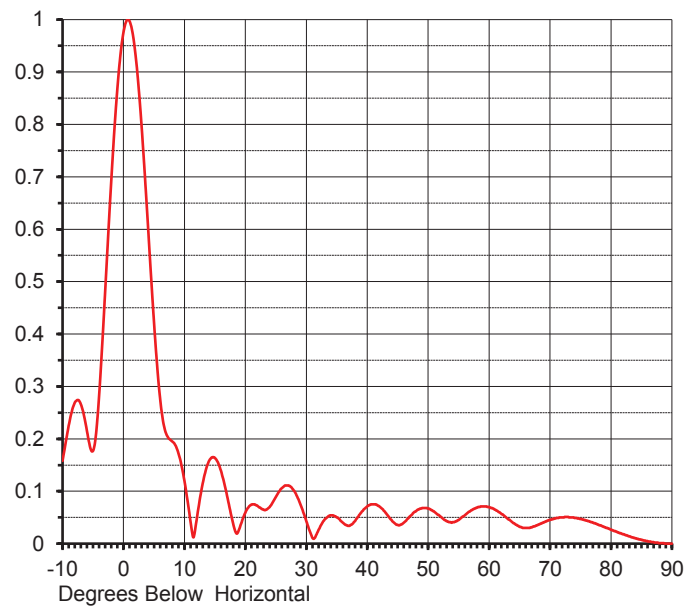
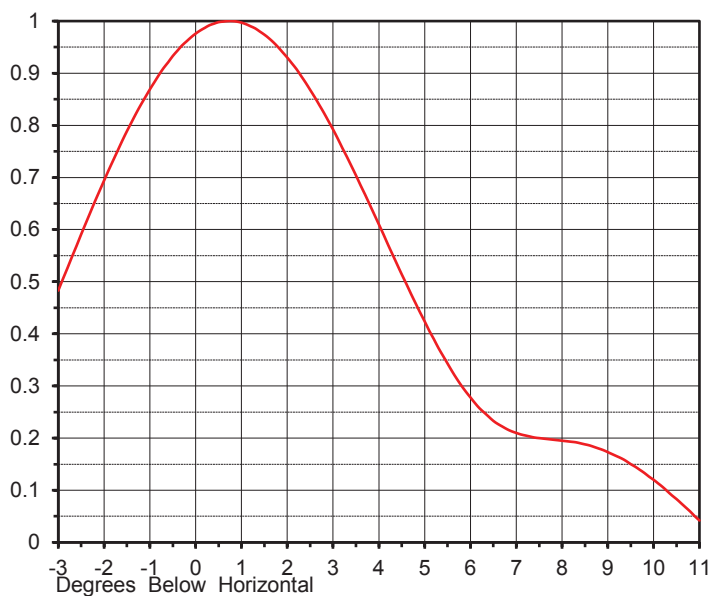


ELEVATION PATTERN

Proposal No. **C-70149**
 Date **13-Feb-17**
 Call Letters **WHAM 9**
 Frequency **189 MHz**
 Antenna Type **THV-10A9/VP O4**

RMS Directivity at Main Lobe **10.00 (10.00 dB)**
 RMS Directivity at Horizontal **9.50 (9.78 dB)**
Calculated

Beam Tilt **0.75 deg**
 Drawing Number **10V100075**



| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.158 | 10.0 | 0.120 | 30.0 | 0.043 | 50.0 | 0.067 | 70.0 | 0.045 |
| -9.0 | 0.225 | 11.0 | 0.042 | 31.0 | 0.011 | 51.0 | 0.061 | 71.0 | 0.049 |
| -8.0 | 0.269 | 12.0 | 0.045 | 32.0 | 0.026 | 52.0 | 0.052 | 72.0 | 0.050 |
| -7.0 | 0.266 | 13.0 | 0.115 | 33.0 | 0.046 | 53.0 | 0.043 | 73.0 | 0.051 |
| -6.0 | 0.215 | 14.0 | 0.157 | 34.0 | 0.054 | 54.0 | 0.041 | 74.0 | 0.049 |
| -5.0 | 0.177 | 15.0 | 0.164 | 35.0 | 0.050 | 55.0 | 0.045 | 75.0 | 0.047 |
| -4.0 | 0.283 | 16.0 | 0.139 | 36.0 | 0.040 | 56.0 | 0.054 | 76.0 | 0.044 |
| -3.0 | 0.483 | 17.0 | 0.091 | 37.0 | 0.034 | 57.0 | 0.063 | 77.0 | 0.040 |
| -2.0 | 0.694 | 18.0 | 0.038 | 38.0 | 0.043 | 58.0 | 0.069 | 78.0 | 0.036 |
| -1.0 | 0.869 | 19.0 | 0.028 | 39.0 | 0.059 | 59.0 | 0.071 | 79.0 | 0.031 |
| 0.0 | 0.976 | 20.0 | 0.059 | 40.0 | 0.071 | 60.0 | 0.070 | 80.0 | 0.027 |
| 1.0 | 0.997 | 21.0 | 0.074 | 41.0 | 0.075 | 61.0 | 0.065 | 81.0 | 0.022 |
| 2.0 | 0.930 | 22.0 | 0.072 | 42.0 | 0.071 | 62.0 | 0.057 | 82.0 | 0.018 |
| 3.0 | 0.792 | 23.0 | 0.065 | 43.0 | 0.059 | 63.0 | 0.048 | 83.0 | 0.014 |
| 4.0 | 0.610 | 24.0 | 0.070 | 44.0 | 0.045 | 64.0 | 0.039 | 84.0 | 0.010 |
| 5.0 | 0.424 | 25.0 | 0.089 | 45.0 | 0.036 | 65.0 | 0.032 | 85.0 | 0.007 |
| 6.0 | 0.278 | 26.0 | 0.106 | 46.0 | 0.040 | 66.0 | 0.030 | 86.0 | 0.005 |
| 7.0 | 0.210 | 27.0 | 0.111 | 47.0 | 0.052 | 67.0 | 0.031 | 87.0 | 0.003 |
| 8.0 | 0.195 | 28.0 | 0.101 | 48.0 | 0.062 | 68.0 | 0.036 | 88.0 | 0.001 |
| 9.0 | 0.173 | 29.0 | 0.076 | 49.0 | 0.068 | 69.0 | 0.041 | 89.0 | 0.000 |
| | | | | | | | | 90.0 | 0.000 |

This document contains proprietary and confidential information of Dielectric. It is to be used solely for the purpose for which it is provided. No disclosure, reproduction, or use of this document or any part of it may be made without the written permission of Dielectric.