





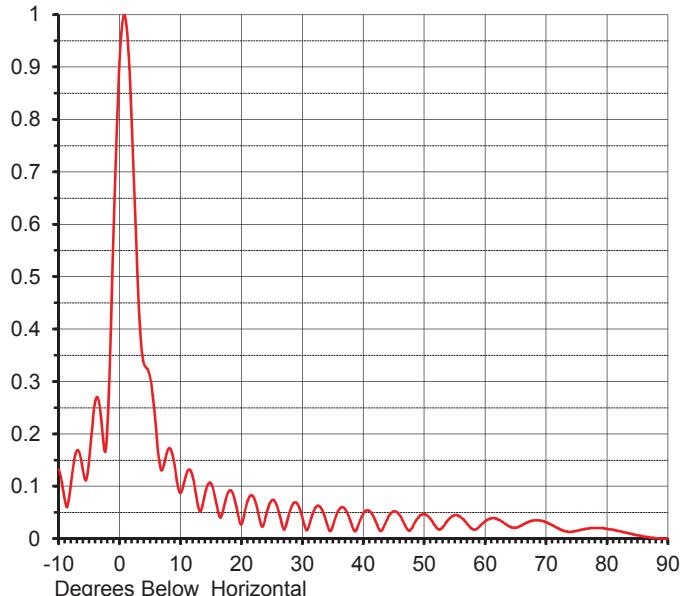
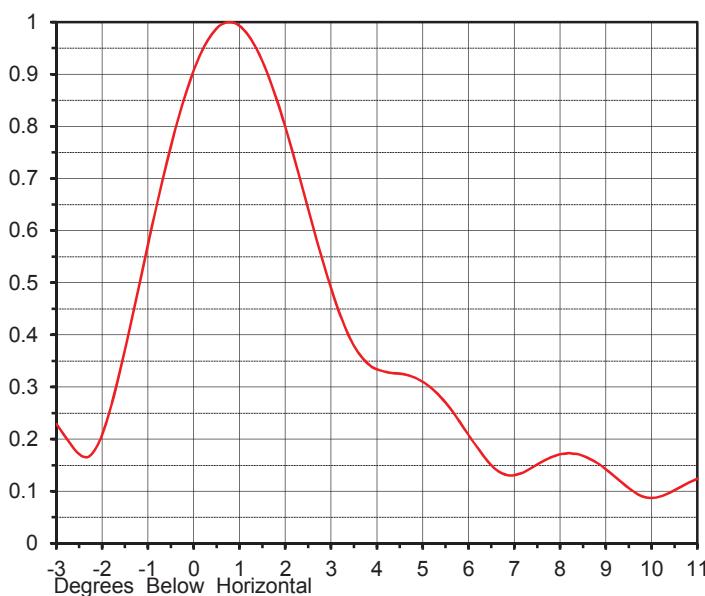
## ELEVATION PATTERN

Proposal No. **C-70055**  
 Date **10-Feb-17**  
 Call Letters **WJAR 25**  
 Frequency **539 MHz**  
 Antenna Type **TFU-18ETT/VP-R 4C160**

RMS Directivity at Main Lobe  
 RMS Directivity at Horizontal

**17.00 ( 12.30 dB )**  
**14.00 ( 11.46 dB )**  
**Calculated**

Beam Tilt **0.80 deg**  
 Drawing Number **18E170080**



| Angle | Field      |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|
| -10.0 | 0.132 | 10.0  | 0.087 | 30.0  | 0.041 | 50.0  | 0.047 | 70.0  | 0.031      |
| -9.0  | 0.075 | 11.0  | 0.124 | 31.0  | 0.021 | 51.0  | 0.038 | 71.0  | 0.026      |
| -8.0  | 0.102 | 12.0  | 0.119 | 32.0  | 0.056 | 52.0  | 0.021 | 72.0  | 0.020      |
| -7.0  | 0.168 | 13.0  | 0.057 | 33.0  | 0.060 | 53.0  | 0.021 | 73.0  | 0.015      |
| -6.0  | 0.131 | 14.0  | 0.083 | 34.0  | 0.030 | 54.0  | 0.036 | 74.0  | 0.013      |
| -5.0  | 0.147 | 15.0  | 0.105 | 35.0  | 0.024 | 55.0  | 0.045 | 75.0  | 0.015      |
| -4.0  | 0.260 | 16.0  | 0.062 | 36.0  | 0.055 | 56.0  | 0.041 | 76.0  | 0.017      |
| -3.0  | 0.229 | 17.0  | 0.053 | 37.0  | 0.057 | 57.0  | 0.029 | 77.0  | 0.019      |
| -2.0  | 0.208 | 18.0  | 0.091 | 38.0  | 0.030 | 58.0  | 0.018 | 78.0  | 0.020      |
| -1.0  | 0.572 | 19.0  | 0.070 | 39.0  | 0.020 | 59.0  | 0.022 | 79.0  | 0.020      |
| 0.0   | 0.907 | 20.0  | 0.027 | 40.0  | 0.048 | 60.0  | 0.033 | 80.0  | 0.019      |
| 1.0   | 0.993 | 21.0  | 0.071 | 41.0  | 0.053 | 61.0  | 0.039 | 81.0  | 0.017      |
| 2.0   | 0.799 | 22.0  | 0.079 | 42.0  | 0.034 | 62.0  | 0.037 | 82.0  | 0.014      |
| 3.0   | 0.489 | 23.0  | 0.037 | 43.0  | 0.015 | 63.0  | 0.031 | 83.0  | 0.012      |
| 4.0   | 0.334 | 24.0  | 0.042 | 44.0  | 0.038 | 64.0  | 0.023 | 84.0  | 0.009      |
| 5.0   | 0.310 | 25.0  | 0.073 | 45.0  | 0.052 | 65.0  | 0.021 | 85.0  | 0.006      |
| 6.0   | 0.208 | 26.0  | 0.057 | 46.0  | 0.044 | 66.0  | 0.025 | 86.0  | 0.004      |
| 7.0   | 0.131 | 27.0  | 0.017 | 47.0  | 0.022 | 67.0  | 0.031 | 87.0  | 0.002      |
| 8.0   | 0.171 | 28.0  | 0.054 | 48.0  | 0.020 | 68.0  | 0.035 | 88.0  | 0.001      |
| 9.0   | 0.142 | 29.0  | 0.069 | 49.0  | 0.040 | 69.0  | 0.035 | 89.0  | 0.000      |
|       |       |       |       |       |       |       |       |       | 90.0 0.000 |

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