

**U. S. Department of Agriculture Funded
Experiment to Evaluate Interference to
Television Broadcasting from Wind Turbines**

**Directional Antenna Pattern
SCALA Model 4DR-4S (Not Rotated)**

| Azimuth | Relative Field | Azimuth | Relative Field | Azimuth | Relative Field |
|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|
| 0 | 1.000 | 120 | 0.025 | 240 | 0.025 |
| 10 | 0.980 | 130 | 0.020 | 250 | 0.030 |
| 20 | 0.916 | 140 | 0.025 | 260 | 0.043 |
| 30 | 0.812 | 150 | 0.035 | 270 | 0.050 |
| 40 | 0.680 | 160 | 0.067 | 280 | 0.087 |
| 50 | 0.520 | 170 | 0.102 | 290 | 0.175 |
| 60 | 0.350 | 180 | 0.110 | 300 | 0.350 |
| 70 | 0.175 | 190 | 0.102 | 310 | 0.520 |
| 80 | 0.087 | 200 | 0.067 | 320 | 0.680 |
| 90 | 0.050 | 210 | 0.035 | 330 | 0.812 |
| 100 | 0.043 | 220 | 0.025 | 340 | 0.916 |
| 110 | 0.030 | 230 | 0.020 | 350 | 0.980 |

Above pattern will be rotated 239 Degrees clockwise