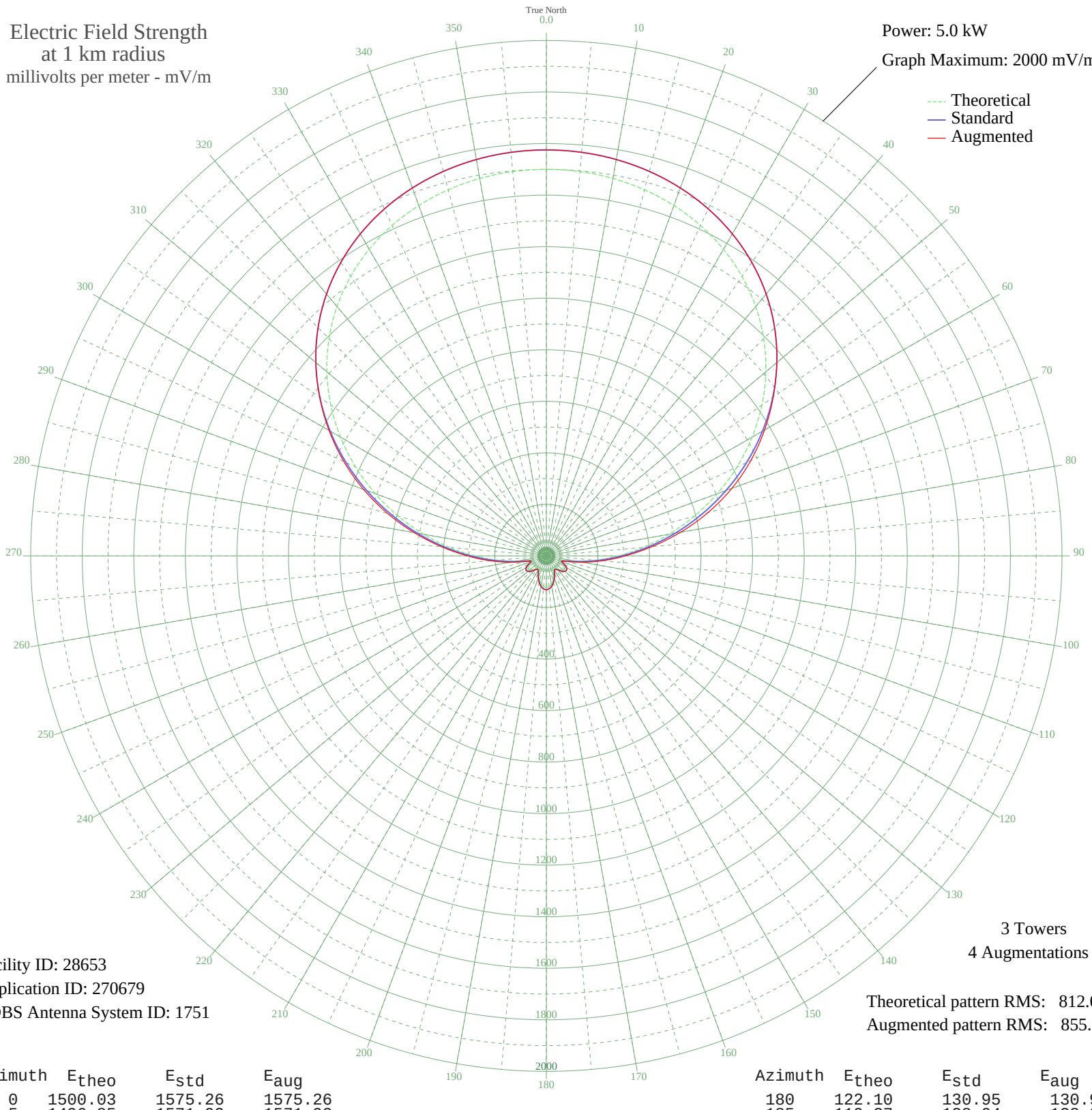
# KLIZ BRAINERD, MN BL-19980707AC 1380 kHz

Nighttime

Electric Field Strength
at 1 km radius
millivolts per meter - mV/m




Power: 5.0 kW

Graph Maximum: 2000 mV/m

Theoretical
Standard
Augmented

3 Towers
4 Augmentations

Facility ID: 28653
Application ID: 270679
CDBS Antenna System ID: 1751

Theoretical pattern RMS: 812.07
Augmented pattern RMS: 855.38

| Azimuth | $E_{theo}$ | $E_{std}$ | $E_{aug}$ |
|---|---|---|---|
| 0 | 1500.03 | 1575.26 | 1575.26 |
| 5 | 1496.85 | 1571.92 | 1571.92 |
| 10 | 1487.17 | 1561.76 | 1561.76 |
| 15 | 1470.65 | 1544.41 | 1544.41 |
| 20 | 1446.72 | 1519.29 | 1519.29 |
| 25 | 1414.70 | 1485.68 | 1485.68 |
| 30 | 1373.85 | 1442.79 | 1442.79 |
| 35 | 1323.47 | 1389.90 | 1389.90 |
| 40 | 1263.02 | 1326.44 | 1326.44 |
| 45 | 1192.23 | 1252.13 | 1252.13 |
| 50 | 1111.25 | 1167.11 | 1167.11 |
| 55 | 1020.66 | 1072.02 | 1074.51 |
| 60 | 921.63 | 968.08 | 977.43 |
| 65 | 815.89 | 857.10 | 875.02 |
| 70 | 705.68 | 741.45 | 765.58 |
| 75 | 593.73 | 623.99 | 649.21 |
| 80 | 483.07 | 507.93 | 528.97 |
| 85 | 376.92 | 396.66 | 410.94 |
| 90 | 278.51 | 293.65 | 305.78 |
| 95 | 191.13 | 202.45 | 217.23 |
| 100 | 118.56 | 127.31 | 140.87 |
| 105 | 67.92 | 76.14 | 82.84 |
| 110 | 53.93 | 62.60 | 62.60 |
| 115 | 67.89 | 76.11 | 76.11 |
| 120 | 82.07 | 90.21 | 90.21 |
| 125 | 87.94 | 96.11 | 96.11 |
| 130 | 85.16 | 93.31 | 93.31 |
| 135 | 75.82 | 83.96 | 83.96 |
| 140 | 63.68 | 71.98 | 71.98 |
| 145 | 54.60 | 63.23 | 63.23 |
| 150 | 55.28 | 63.88 | 63.88 |
| 155 | 66.40 | 74.64 | 74.64 |
| 160 | 82.35 | 90.49 | 90.49 |
| 165 | 98.18 | 106.49 | 106.49 |
| 170 | 111.02 | 119.58 | 119.58 |
| 175 | 119.27 | 128.04 | 128.04 |

| Azimuth | $E_{theo}$ | $E_{std}$ | $E_{aug}$ |
|---|---|---|---|
| 180 | 122.10 | 130.95 | 130.95 |
| 185 | 119.27 | 128.04 | 128.04 |
| 190 | 111.02 | 119.58 | 119.58 |
| 195 | 98.18 | 106.49 | 106.49 |
| 200 | 82.35 | 90.49 | 90.49 |
| 205 | 66.40 | 74.64 | 74.64 |
| 210 | 55.28 | 63.88 | 63.88 |
| 215 | 54.60 | 63.23 | 63.23 |
| 220 | 63.68 | 71.98 | 71.98 |
| 225 | 75.82 | 83.96 | 83.96 |
| 230 | 85.16 | 93.31 | 93.31 |
| 235 | 87.94 | 96.11 | 96.11 |
| 240 | 82.07 | 90.21 | 90.21 |
| 245 | 67.89 | 76.11 | 76.11 |
| 250 | 53.93 | 62.60 | 62.60 |
| 255 | 67.92 | 76.14 | 82.84 |
| 260 | 118.56 | 127.31 | 140.87 |
| 265 | 191.13 | 202.45 | 217.23 |
| 270 | 278.51 | 293.65 | 305.78 |
| 275 | 376.92 | 396.66 | 407.93 |
| 280 | 483.07 | 507.93 | 520.96 |
| 285 | 593.73 | 623.99 | 638.05 |
| 290 | 705.68 | 741.45 | 754.51 |
| 295 | 815.89 | 857.10 | 866.77 |
| 300 | 921.63 | 968.08 | 973.12 |
| 305 | 1020.66 | 1072.03 | 1073.36 |
| 310 | 1111.25 | 1167.11 | 1167.11 |
| 315 | 1192.24 | 1252.13 | 1252.13 |
| 320 | 1263.02 | 1326.44 | 1326.44 |
| 325 | 1323.47 | 1389.90 | 1389.90 |
| 330 | 1373.85 | 1442.79 | 1442.79 |
| 335 | 1414.70 | 1485.68 | 1485.68 |
| 340 | 1446.72 | 1519.29 | 1519.29 |
| 345 | 1470.65 | 1544.41 | 1544.41 |
| 350 | 1487.17 | 1561.76 | 1561.76 |
| 355 | 1496.85 | 1571.92 | 1571.92 |

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

04 Jul 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission