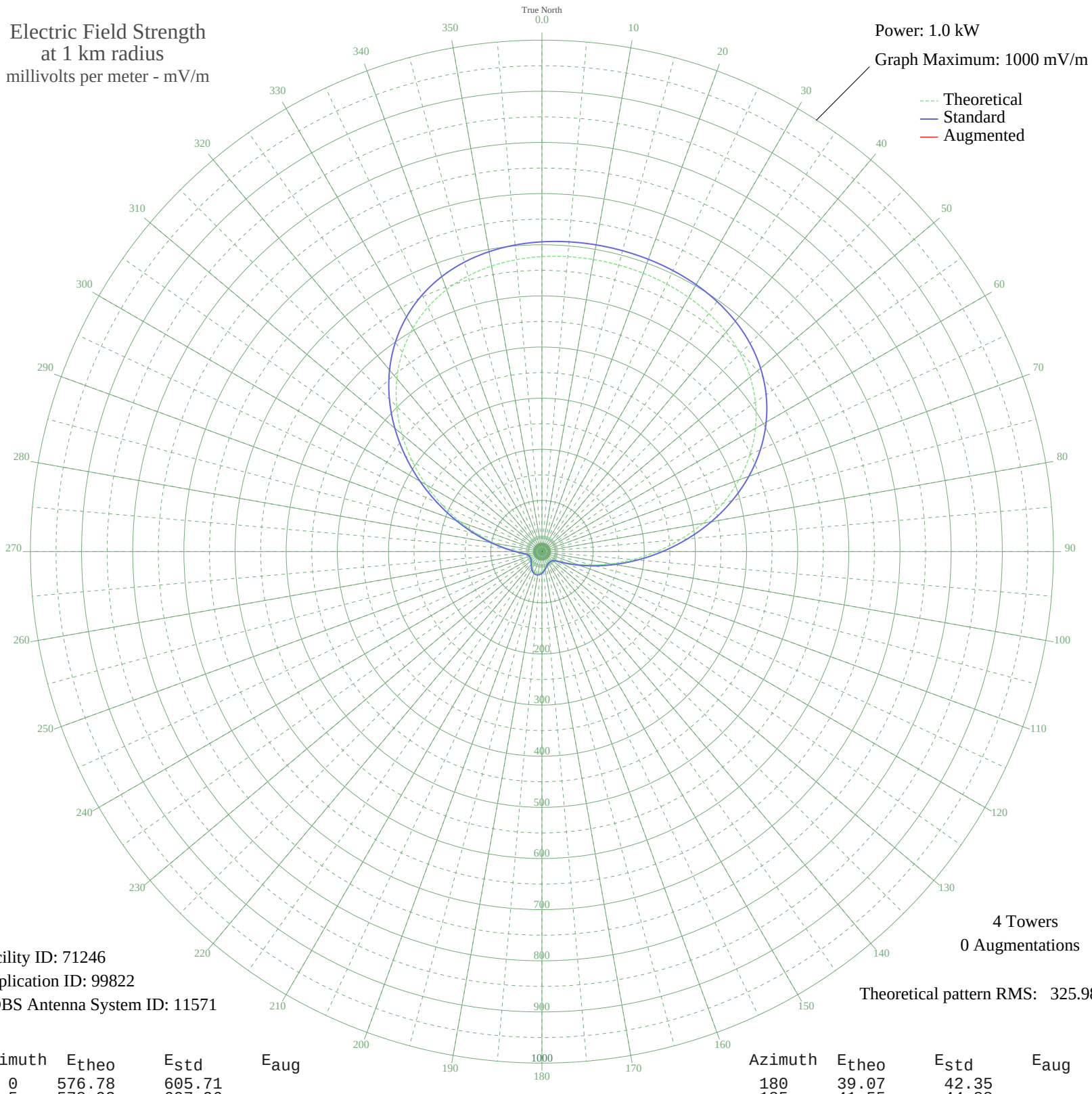
# WKST NEW CASTLE, PA BL-19870331AK 1200 kHz

Nighttime

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




Power: 1.0 kW

Graph Maximum: 1000 mV/m

Theoretical
Standard
Augmented

4 Towers
0 Augmentations

Facility ID: 71246
Application ID: 99822
CDBS Antenna System ID: 11571

Theoretical pattern RMS: 325.98

| Azimuth | $E_{theo}$ | $E_{std}$ | $E_{aug}$ |
|---|---|---|---|
| 0 | 576.78 | 605.71 | |
| 5 | 578.92 | 607.96 | |
| 10 | 579.91 | 608.99 | |
| 15 | 579.99 | 609.08 | |
| 20 | 579.20 | 608.25 | |
| 25 | 577.32 | 606.27 | |
| 30 | 573.93 | 602.71 | |
| 35 | 568.41 | 596.93 | |
| 40 | 560.02 | 588.12 | |
| 45 | 547.93 | 575.42 | |
| 50 | 531.30 | 557.97 | |
| 55 | 509.46 | 535.04 | |
| 60 | 481.94 | 506.14 | |
| 65 | 448.63 | 471.18 | |
| 70 | 409.89 | 430.51 | |
| 75 | 366.54 | 385.01 | |
| 80 | 319.90 | 336.06 | |
| 85 | 271.70 | 285.48 | |
| 90 | 223.90 | 235.33 | |
| 95 | 178.51 | 187.73 | |
| 100 | 137.37 | 144.62 | |
| 105 | 101.94 | 107.55 | |
| 110 | 73.21 | 77.58 | |
| 115 | 51.59 | 55.18 | |
| 120 | 36.96 | 40.20 | |
| 125 | 28.46 | 31.68 | |
| 130 | 24.39 | 27.68 | |
| 135 | 22.75 | 26.10 | |
| 140 | 22.18 | 25.55 | |
| 145 | 22.15 | 25.52 | |
| 150 | 22.63 | 25.98 | |
| 155 | 23.80 | 27.11 | |
| 160 | 25.85 | 29.10 | |
| 165 | 28.74 | 31.95 | |
| 170 | 32.21 | 35.41 | |
| 175 | 35.81 | 39.04 | |

| Azimuth | $E_{theo}$ | $E_{std}$ | $E_{aug}$ |
|---|---|---|---|
| 180 | 39.07 | 42.35 | |
| 185 | 41.55 | 44.88 | |
| 190 | 42.95 | 46.30 | |
| 195 | 43.08 | 46.43 | |
| 200 | 41.93 | 45.26 | |
| 205 | 39.64 | 42.93 | |
| 210 | 36.51 | 39.74 | |
| 215 | 32.93 | 36.14 | |
| 220 | 29.40 | 32.61 | |
| 225 | 26.36 | 29.61 | |
| 230 | 24.14 | 27.44 | |
| 235 | 22.80 | 26.14 | |
| 240 | 22.20 | 25.57 | |
| 245 | 22.14 | 25.51 | |
| 250 | 22.58 | 25.93 | |
| 255 | 23.93 | 27.23 | |
| 260 | 27.36 | 30.59 | |
| 265 | 34.81 | 38.03 | |
| 270 | 48.12 | 51.61 | |
| 275 | 68.31 | 72.49 | |
| 280 | 95.64 | 100.97 | |
| 285 | 129.79 | 136.68 | |
| 290 | 169.89 | 178.70 | |
| 295 | 214.57 | 225.54 | |
| 300 | 262.05 | 275.35 | |
| 305 | 310.33 | 326.01 | |
| 310 | 357.42 | 375.44 | |
| 315 | 401.55 | 421.76 | |
| 320 | 441.30 | 463.48 | |
| 325 | 475.74 | 499.63 | |
| 330 | 504.42 | 529.75 | |
| 335 | 527.37 | 553.84 | |
| 340 | 544.99 | 572.34 | |
| 345 | 557.93 | 585.92 | |
| 350 | 566.99 | 595.43 | |
| 355 | 573.02 | 601.76 | |

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.

13 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission