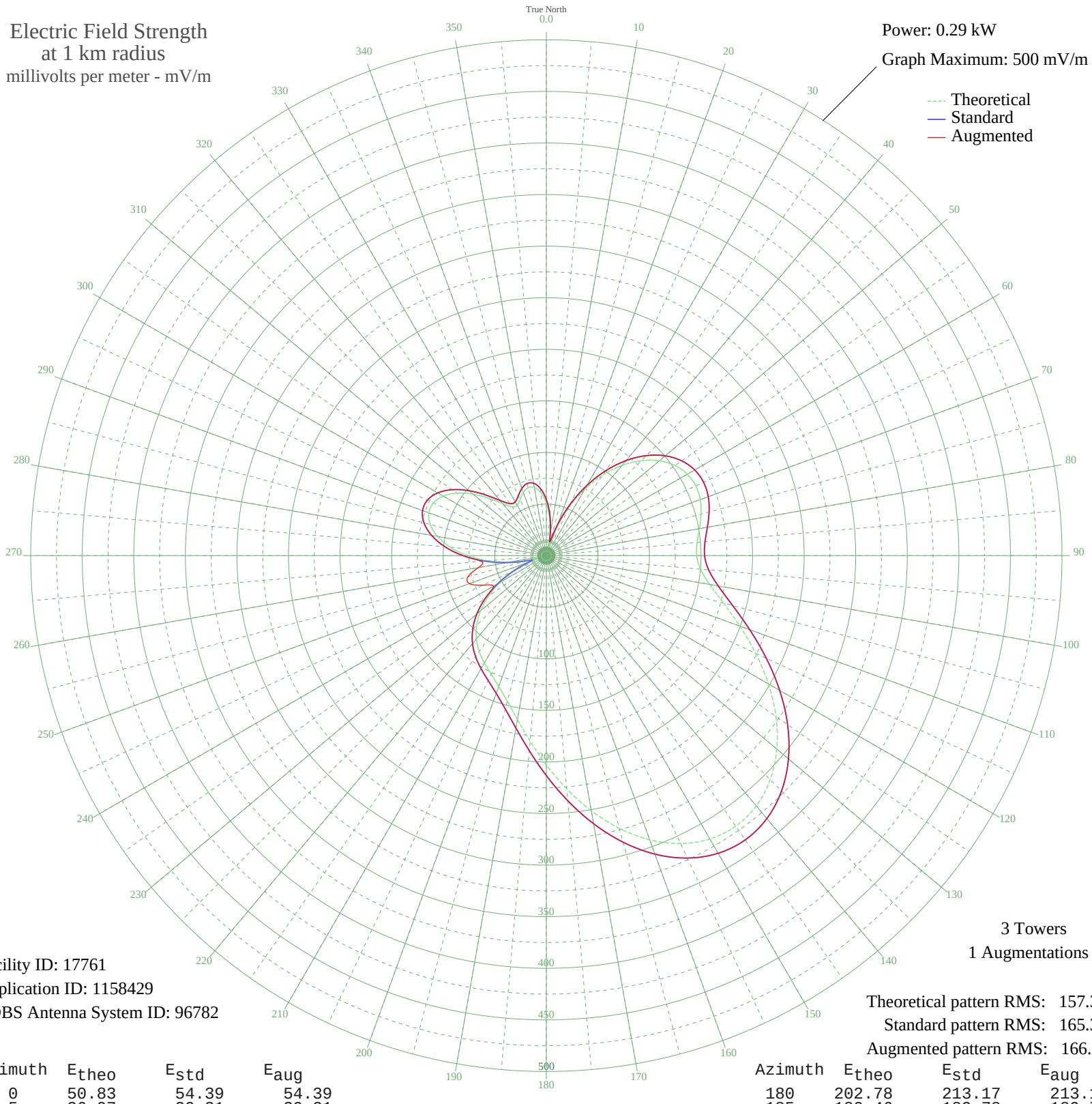
WRJD DURHAM, NC BL-20060313AFE 1410 kHz

Nighttime

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



Power: 0.29 kW

Graph Maximum: 500 mV/m

Theoretical
Standard
Augmented

3 Towers
1 Augmentations

Facility ID: 17761
Application ID: 1158429
CDBS Antenna System ID: 96782

Theoretical pattern RMS: 157.35
Standard pattern RMS: 165.31
Augmented pattern RMS: 166.12

Azimuth	E_{theo}	E_{std}	E_{aug}
0	50.83	54.39	54.39
5	36.07	39.31	39.31
10	18.45	22.03	22.03
15	9.72	14.64	14.64
20	28.92	32.13	32.13
25	51.61	55.20	55.20
30	74.08	78.48	78.48
35	95.17	100.48	100.48
40	114.09	120.25	120.25
45	130.18	137.10	137.10
50	143.01	150.53	150.53
55	152.27	160.23	160.23
60	157.87	166.10	166.10
65	159.92	168.24	168.24
70	158.81	167.08	167.08
75	155.31	163.41	163.41
80	150.68	158.56	158.56
85	146.76	154.45	154.45
90	145.83	153.48	153.48
95	150.12	157.98	157.98
100	160.90	169.27	169.27
105	177.90	187.09	187.09
110	199.61	209.86	209.86
115	223.92	235.35	235.35
120	248.64	261.29	261.29
125	271.81	285.59	285.59
130	291.72	306.49	306.49
135	307.02	322.54	322.54
140	316.70	332.70	332.70
145	320.13	336.31	336.31
150	317.13	333.15	333.15
155	307.90	323.46	323.46
160	293.08	307.91	307.91
165	273.69	287.57	287.57
170	251.09	263.86	263.86
175	226.88	238.45	238.45

Azimuth	E_{theo}	E_{std}	E_{aug}
180	202.78	213.17	213.17
185	180.46	189.78	189.78
190	161.33	169.72	169.72
195	146.18	153.85	153.85
200	134.96	142.10	142.10
205	126.75	133.50	133.50
210	120.08	126.53	126.53
215	113.44	119.57	119.57
220	105.55	111.33	111.33
225	95.61	100.94	100.94
230	83.18	87.97	87.97
235	68.21	72.38	72.38
240	50.89	54.46	59.12
245	31.77	34.97	67.75
250	12.73	17.00	79.34
255	15.08	19.00	78.54
260	35.64	38.86	66.93
265	56.67	60.42	63.10
270	76.28	80.78	80.78
275	93.40	98.63	98.63
280	107.09	112.94	112.94
285	116.56	122.83	122.83
290	121.21	127.71	127.71
295	120.78	127.26	127.26
300	115.39	121.61	121.61
305	105.64	111.41	111.41
310	92.71	97.91	97.91
315	78.49	83.08	83.08
320	65.74	69.82	69.82
325	57.74	61.53	61.53
330	56.49	60.23	60.23
335	60.29	64.17	64.17
340	65.25	69.32	69.32
345	68.16	72.33	72.33
350	67.12	71.26	71.26
355	61.36	65.28	65.28

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
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