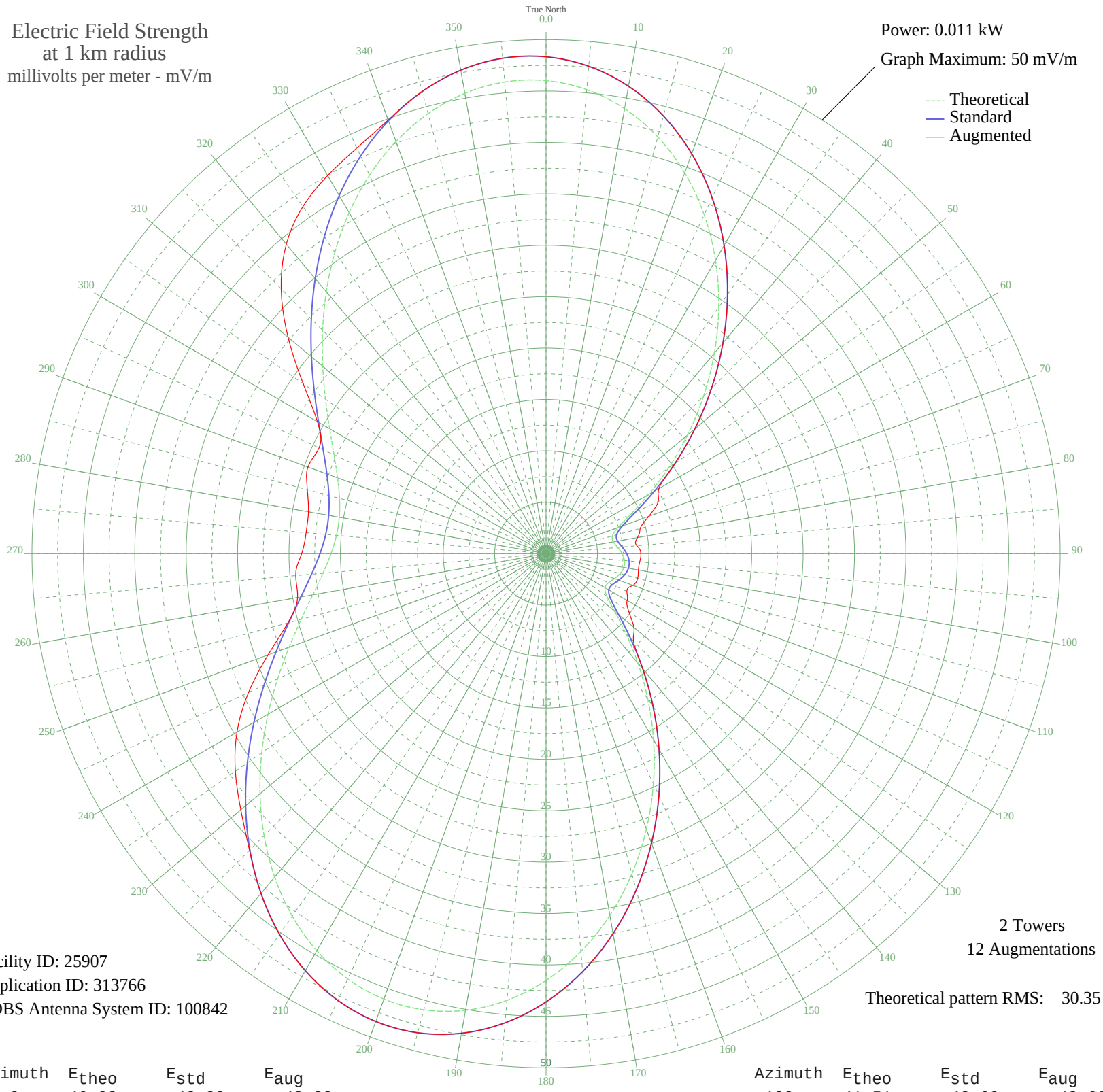
WPNI AMHERST, MA BL-- 1430 kHz

Nighttime



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

Power: 0.011 kW

Graph Maximum: 50 mV/m

Theoretical
Standard
Augmented

Facility ID: 25907
Application ID: 313766
CDBS Antenna System ID: 100842

2 Towers
12 Augmentations

Theoretical pattern RMS: 30.35

Azimuth	E_{theo}	E_{std}	E_{aug}
0	46.02	48.33	48.33
5	45.32	47.60	47.60
10	43.96	46.17	46.17
15	41.98	44.09	44.09
20	39.42	41.41	41.41
25	36.38	38.22	38.22
30	32.96	34.63	34.63
35	29.28	30.76	30.76
40	25.47	26.76	26.76
45	21.65	22.76	22.76
50	17.96	18.89	18.89
55	14.54	15.30	15.30
60	11.53	12.15	12.66
65	9.10	9.62	12.04
70	7.45	7.90	10.63
75	6.68	7.10	9.47
80	6.65	7.06	9.02
85	7.00	7.43	8.86
90	7.40	7.84	9.22
95	7.65	8.11	9.14
100	7.68	8.14	9.12
105	7.46	7.91	9.22
110	7.08	7.51	9.00
115	6.70	7.12	8.67
120	6.62	7.04	9.10
125	7.22	7.66	9.82
130	8.70	9.20	11.16
135	10.99	11.59	12.03
140	13.90	14.63	14.63
145	17.25	18.15	18.15
150	20.90	21.97	21.97
155	24.70	25.96	25.96
160	28.52	29.97	29.97
165	32.24	33.87	33.87
170	35.72	37.53	37.53
175	38.85	40.81	40.81

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.

15 Mar 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	41.51	43.60	43.60
185	43.61	45.81	45.81
190	45.10	47.37	47.37
195	45.93	48.24	48.24
200	46.10	48.42	48.42
205	45.64	47.93	47.93
210	44.59	46.83	46.83
215	43.03	45.20	45.20
220	41.06	43.13	43.13
225	38.78	40.74	40.79
230	36.31	38.14	38.75
235	33.76	35.46	36.89
240	31.22	32.80	34.71
245	28.81	30.27	31.93
250	26.60	27.95	28.77
255	24.65	25.91	25.99
260	23.03	24.21	24.54
265	21.78	22.90	24.44
270	20.92	21.99	23.77
275	20.46	21.51	23.42
280	20.42	21.47	23.46
285	20.79	21.86	24.04
290	21.58	22.68	24.65
295	22.75	23.92	24.36
300	24.30	25.54	25.67
305	26.18	27.51	28.84
310	28.35	29.79	32.75
315	30.73	32.28	36.43
320	33.25	34.92	39.30
325	35.80	37.61	41.23
330	38.30	40.23	42.48
335	40.63	42.67	43.54
340	42.67	44.81	44.89
345	44.32	46.54	46.54
350	45.47	47.76	47.76
355	46.06	48.38	48.38