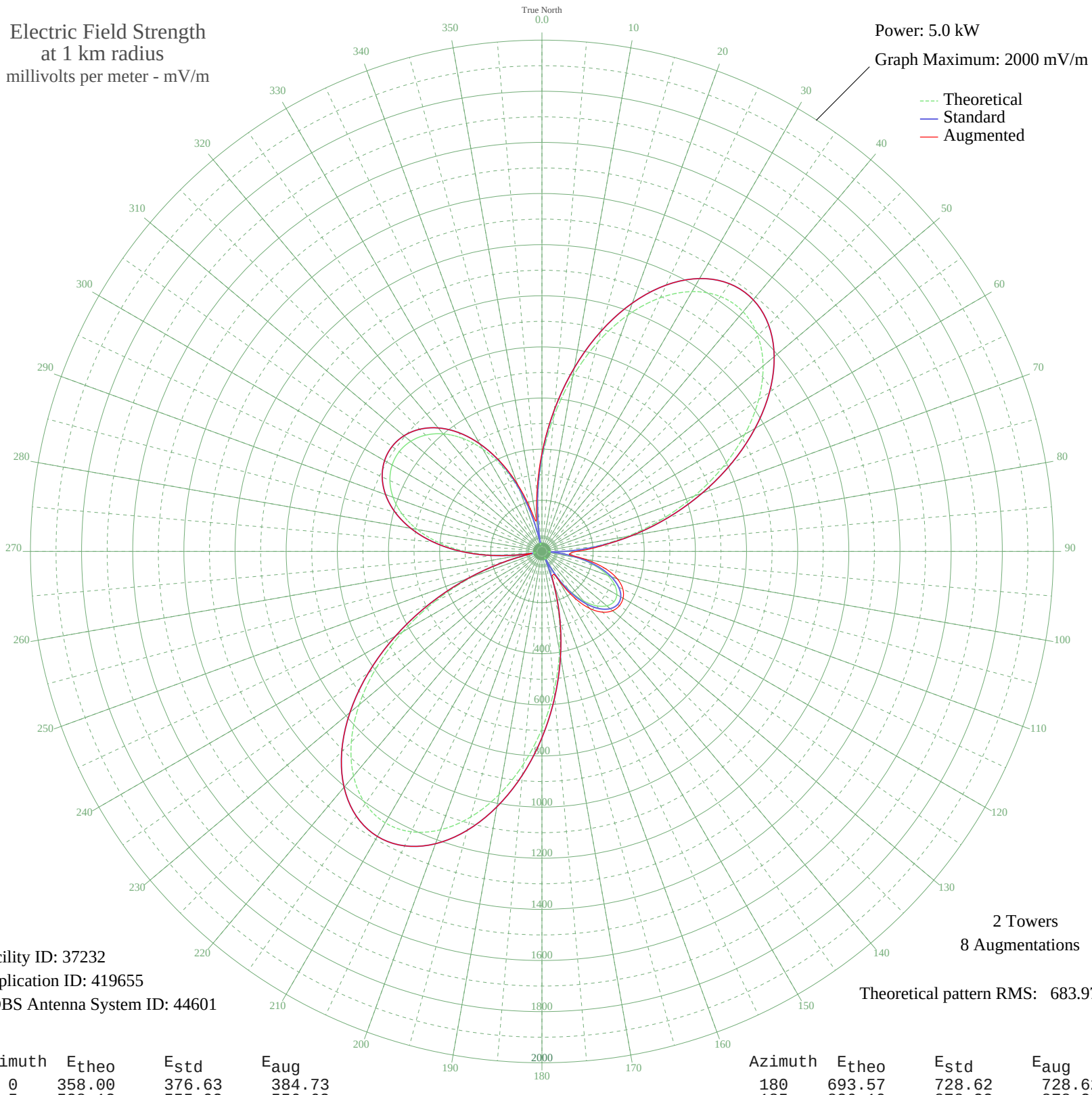
WPOP HARTFORD, CT BL-14150 1410 kHz

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

2 Towers
8 Augmentations

Facility ID: 37232
Application ID: 419655
CDBS Antenna System ID: 44601

Theoretical pattern RMS: 683.97

Azimuth	E_{theo}	E_{std}	E_{aug}
0	358.00	376.63	384.73
5	528.12	555.02	556.62
10	694.14	729.22	729.22
15	848.73	891.47	891.47
20	984.53	1034.02	1034.02
25	1094.71	1149.69	1149.69
30	1173.62	1232.53	1232.53
35	1217.27	1278.34	1278.34
40	1223.74	1285.15	1285.15
45	1193.40	1253.29	1253.29
50	1128.77	1185.45	1185.45
55	1034.30	1086.27	1086.27
60	915.87	961.95	961.95
65	780.25	819.59	819.59
70	634.50	666.64	666.64
75	485.44	510.26	510.26
80	339.25	356.98	356.98
85	201.25	212.62	226.42
90	77.08	84.27	134.62
95	46.47	54.15	108.46
100	136.95	145.70	167.13
105	213.95	225.87	254.78
110	273.36	287.99	313.87
115	314.75	331.32	349.21
120	338.10	355.78	366.33
125	343.48	361.42	369.90
130	330.92	348.26	360.71
135	300.36	316.25	335.92
140	251.75	265.38	291.25
145	185.20	195.87	220.83
150	101.65	109.28	124.61
155	25.30	35.45	101.95
160	124.53	132.85	133.54
165	255.15	268.94	268.94
170	397.02	417.53	417.53
175	545.05	572.78	572.78

Azimuth	E_{theo}	E_{std}	E_{aug}
180	693.57	728.62	728.62
185	836.10	878.22	878.22
190	965.69	1014.25	1014.25
195	1075.32	1129.33	1129.33
200	1158.49	1216.65	1216.65
205	1209.84	1270.55	1270.55
210	1225.64	1287.14	1287.14
215	1204.21	1264.64	1264.64
220	1146.11	1203.64	1203.64
225	1054.11	1107.06	1107.06
230	932.92	979.85	979.85
235	788.74	828.51	828.51
240	628.68	660.54	660.54
245	460.16	483.74	483.74
250	290.38	305.80	305.80
255	126.41	134.79	134.92
260	40.24	48.34	51.73
265	174.93	185.17	185.17
270	299.37	315.22	315.22
275	406.44	427.41	427.41
280	495.32	520.62	520.62
285	566.13	594.90	594.90
290	619.43	650.82	650.82
295	655.94	689.13	689.13
300	676.32	710.52	710.52
305	680.99	715.43	715.43
310	670.07	703.96	703.96
315	643.30	675.87	675.87
320	600.16	630.61	630.61
325	539.94	567.43	567.43
330	461.96	485.63	485.93
335	365.78	384.79	389.09
340	251.58	265.20	280.14
345	120.96	129.16	169.85
350	38.43	46.69	124.22
355	190.78	201.69	226.93

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