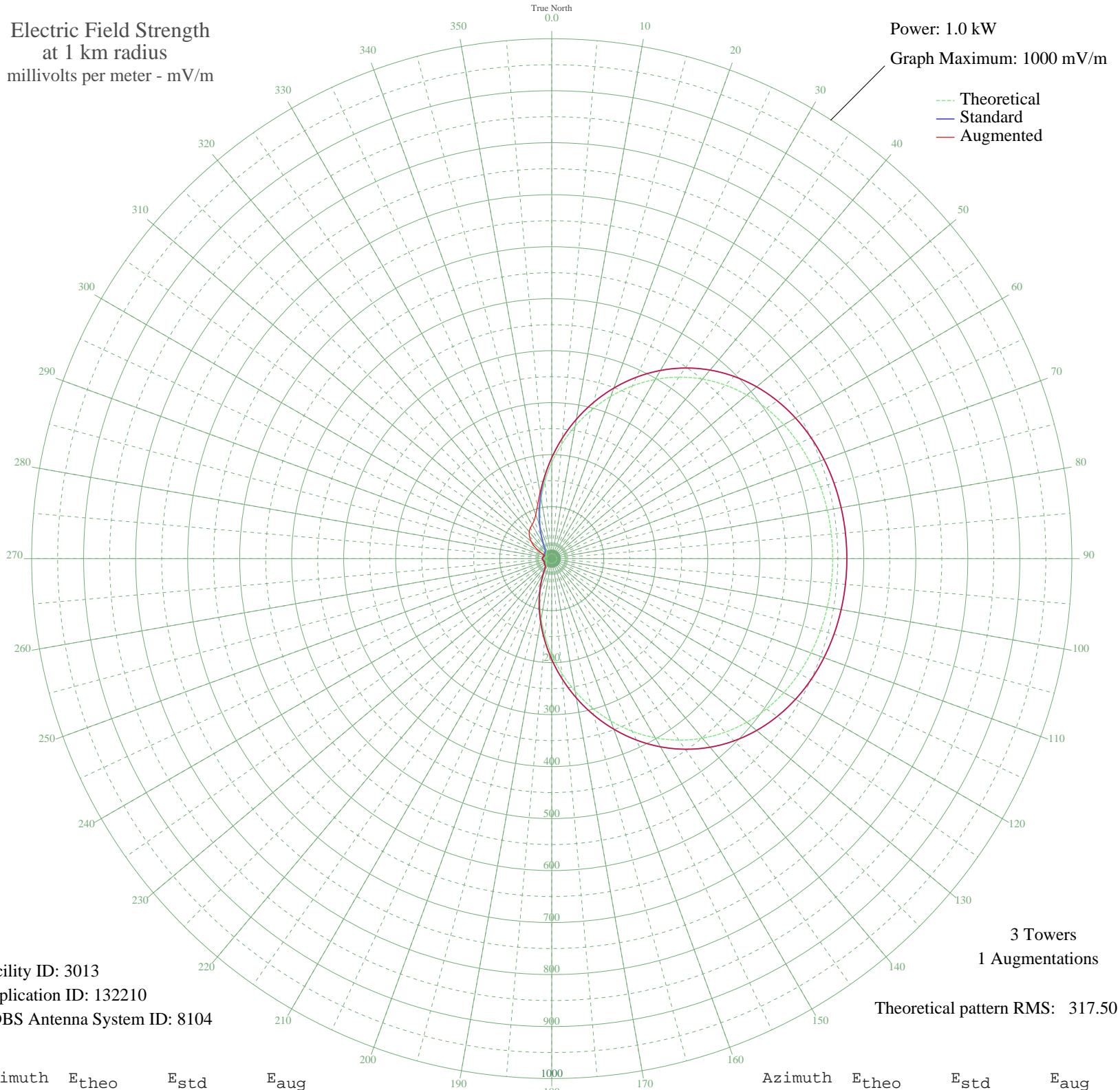


WBNW CONCORD, MA BL-19890814AD 1120 kHz

Nighttime

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

Power: 1.0 kW
Graph Maximum: 1000 mV/m



Facility ID: 3013
Application ID: 132210
CDBS Antenna System ID: 8104

3 Towers
1 Augmentations

Theoretical pattern RMS: 317.50

Azimuth	E _{theo}	E _{std}	E _{aug}
0	184.44	193.95	194.24
5	221.25	232.55	232.55
10	258.84	271.98	271.98
15	296.19	311.17	311.17
20	332.35	349.12	349.12
25	366.48	384.95	384.95
30	397.91	417.93	417.93
35	426.13	447.56	447.56
40	450.86	473.52	473.52
45	472.00	495.71	495.71
50	489.62	514.20	514.20
55	503.93	529.23	529.23
60	515.25	541.12	541.12
65	523.95	550.24	550.24
70	530.40	557.02	557.02
75	534.98	561.83	561.83
80	538.01	565.01	565.01
85	539.72	566.81	566.81
90	540.28	567.39	567.39
95	539.72	566.81	566.81
100	538.01	565.01	565.01
105	534.98	561.83	561.83
110	530.40	557.02	557.02
115	523.95	550.24	550.24
120	515.25	541.12	541.12
125	503.93	529.23	529.23
130	489.62	514.20	514.20
135	472.00	495.71	495.71
140	450.86	473.52	473.52
145	426.13	447.56	447.56
150	397.91	417.93	417.93
155	366.48	384.95	384.95
160	332.35	349.12	349.12
165	296.19	311.17	311.17
170	258.84	271.98	271.98
175	221.25	232.55	232.55

Azimuth	E _{theo}	E _{std}	E _{aug}
180	184.44	193.95	193.95
185	149.41	157.23	157.23
190	117.07	123.37	123.37
195	88.23	93.23	93.23
200	63.53	67.52	67.52
205	43.46	46.83	46.83
210	28.47	31.69	31.69
215	19.02	22.56	22.56
220	14.95	18.89	18.89
225	14.12	18.17	18.17
230	13.84	17.93	17.93
235	13.03	17.25	17.25
240	11.85	16.28	16.28
245	10.94	15.56	15.56
250	10.92	15.55	15.55
255	11.79	16.24	16.24
260	13.02	17.23	17.23
265	13.99	18.06	18.06
270	14.36	18.37	18.37
275	13.99	18.06	18.06
280	13.02	17.23	17.23
285	11.79	16.24	16.24
290	10.92	15.55	15.55
295	10.94	15.56	17.32
300	11.85	16.28	27.70
305	13.03	17.25	40.04
310	13.84	17.93	51.33
315	14.12	18.17	60.50
320	14.95	18.89	67.22
325	19.02	22.56	71.81
330	28.47	31.69	75.48
335	43.46	46.83	80.52
340	63.53	67.52	89.87
345	88.23	93.23	105.90
350	117.07	123.37	129.29
355	149.41	157.23	159.25

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau
Federal Communications Commission