

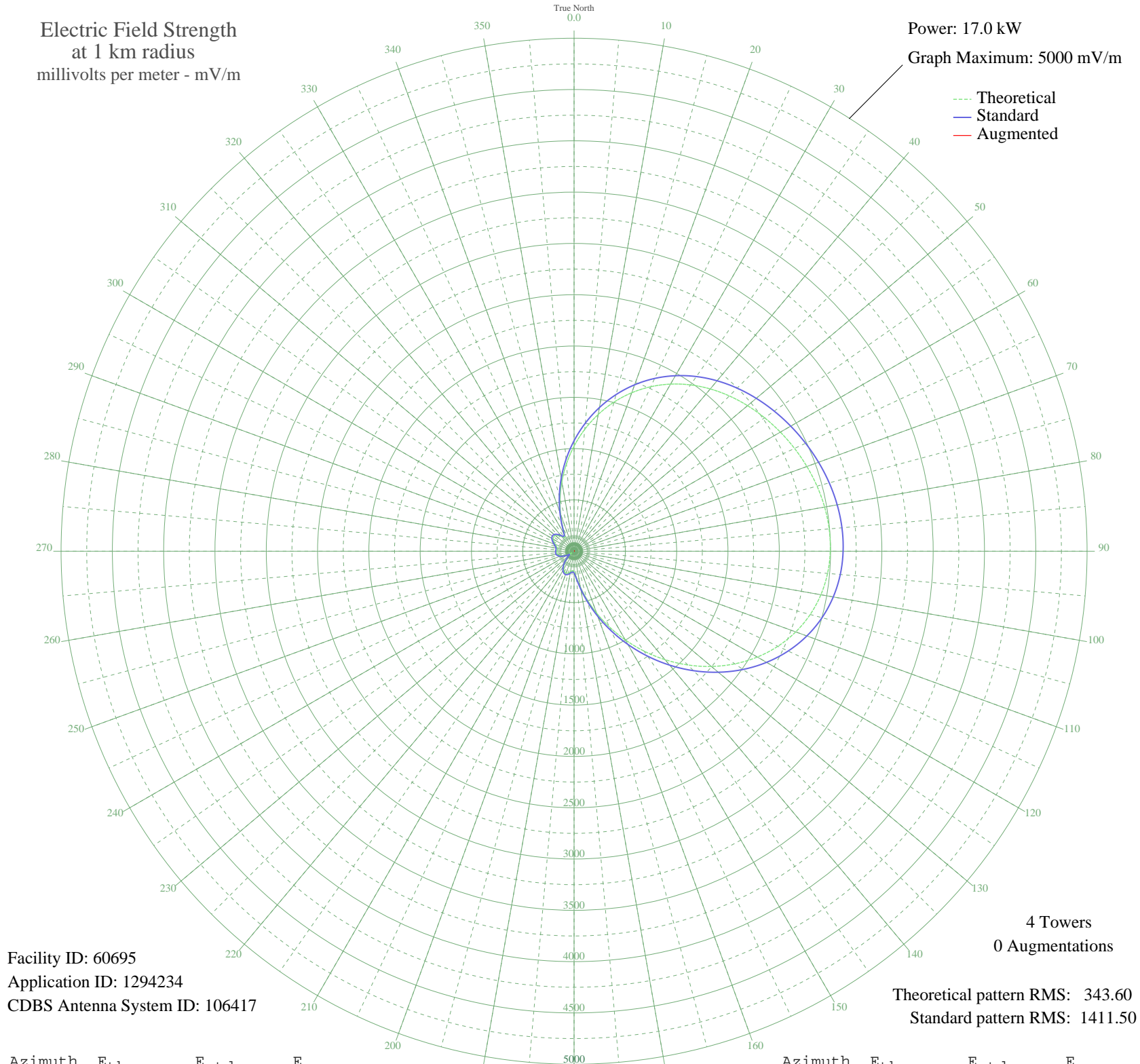
WRCA WATERTOWN, MA BMML-20090202CEX 1330 kHz

Nighttime

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

Power: 17.0 kW
Graph Maximum: 5000 mV/m

--- Theoretical
— Standard
— Augmented



Facility ID: 60695
Application ID: 1294234
CDBS Antenna System ID: 106417

Theoretical pattern RMS: 343.60
Standard pattern RMS: 1411.50

Azimuth	E _{theo}	E _{std}	E _{aug}
0	1024.56	1076.67	
5	1192.31	1252.68	
10	1353.44	1421.78	
15	1504.68	1580.51	
20	1643.71	1726.44	
25	1769.19	1858.16	
30	1880.76	1975.28	
35	1978.94	2078.35	
40	2064.95	2168.63	
45	2140.46	2247.91	
50	2207.36	2318.14	
55	2267.36	2381.13	
60	2321.74	2438.21	
65	2371.00	2489.93	
70	2414.78	2535.89	
75	2451.74	2574.69	
80	2479.69	2604.04	
85	2495.83	2620.98	
90	2497.02	2622.23	
95	2480.22	2604.59	
100	2442.76	2565.26	
105	2382.72	2502.24	
110	2299.13	2414.48	
115	2192.06	2302.08	
120	2062.73	2166.30	
125	1913.35	2009.49	
130	1747.07	1834.94	
135	1567.77	1646.73	
140	1379.88	1449.53	
145	1188.22	1248.39	
150	997.79	1048.58	
155	813.72	855.51	
160	641.23	674.70	
165	485.84	511.99	
170	354.04	374.28	
175	254.73	270.98	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	199.19	213.62	
185	189.00	203.17	
190	203.52	218.08	
195	219.88	234.94	
200	226.87	242.15	
205	220.99	236.08	
210	202.24	216.77	
215	172.30	186.07	
220	133.70	146.97	
225	89.69	103.73	
230	45.50	64.61	
235	27.77	52.37	
240	61.69	78.02	
245	99.19	112.87	
250	130.16	143.43	
255	152.18	165.61	
260	164.57	178.19	
265	168.27	181.96	
270	166.13	179.78	
275	163.10	176.69	
280	165.14	178.77	
285	176.20	190.06	
290	195.24	209.57	
295	216.98	231.95	
300	234.86	250.41	
305	243.07	258.91	
310	237.60	253.25	
315	217.20	232.17	
320	186.12	200.21	
325	162.00	175.57	
330	181.62	195.60	
335	261.19	277.68	
340	381.72	403.16	
345	526.67	554.72	
350	686.47	722.11	
355	854.32	898.09	

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