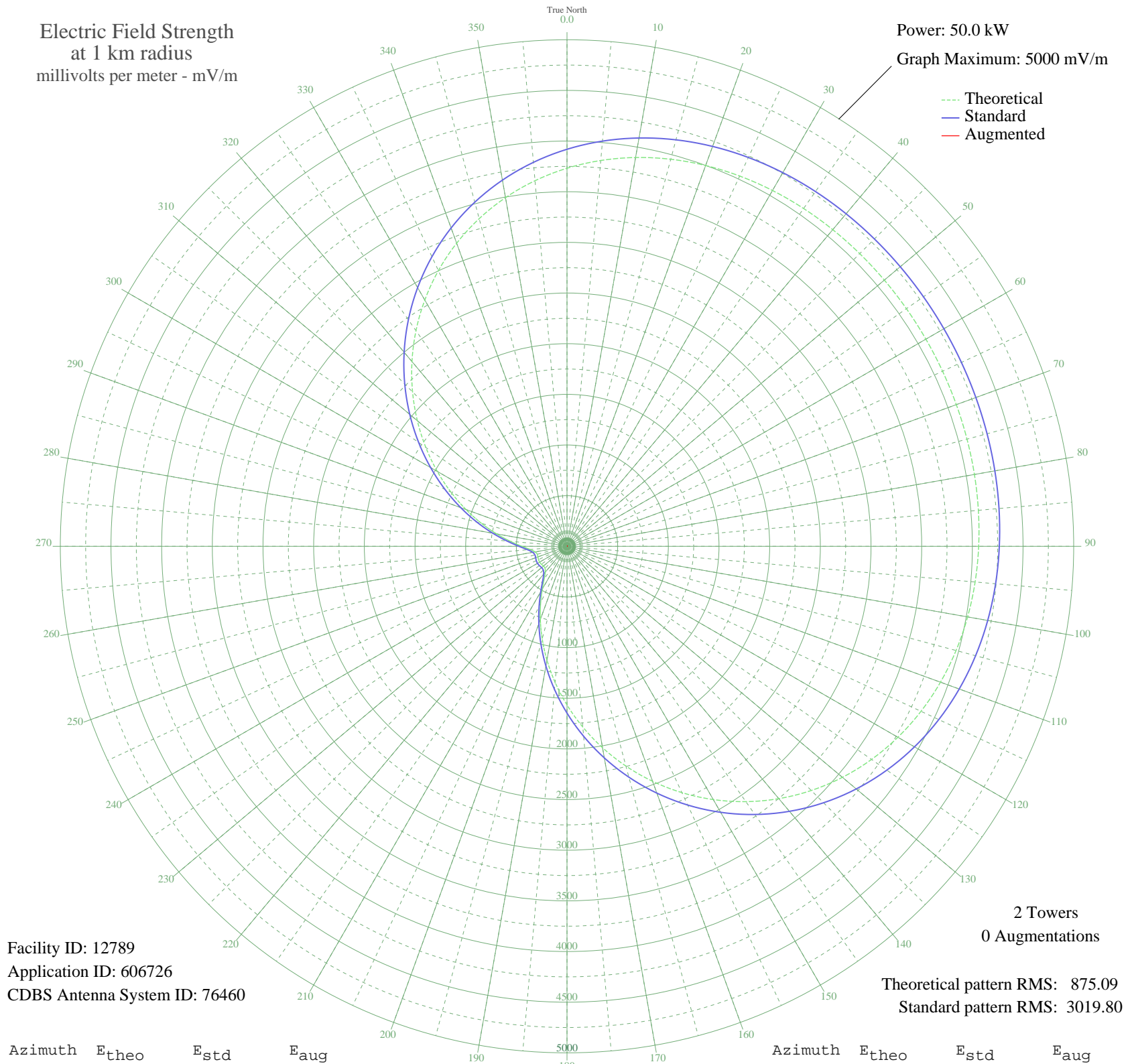


# WWZN BOSTON, MA BL-20020619ACD 1510 kHz

## Critical Hours

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

Power: 50.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 12789  
Application ID: 606726  
CDBS Antenna System ID: 76460

2 Towers  
0 Augmentations

Theoretical pattern RMS: 875.09  
Standard pattern RMS: 3019.80

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	3731.68	3919.00	
5	3822.79	4014.65	
10	3896.83	4092.38	
15	3955.26	4153.72	
20	3999.83	4200.51	
25	4032.53	4234.84	
30	4055.43	4258.88	
35	4070.57	4274.78	
40	4079.92	4284.59	
45	4085.18	4290.12	
50	4087.84	4292.90	
55	4088.98	4294.10	
60	4089.33	4294.47	
65	4089.18	4294.32	
70	4088.42	4293.52	
75	4086.49	4291.49	
80	4082.42	4287.22	
85	4074.91	4279.33	
90	4062.30	4266.10	
95	4042.75	4245.57	
100	4014.22	4215.62	
105	3974.64	4174.07	
110	3921.98	4118.78	
115	3854.38	4047.81	
120	3770.25	3959.49	
125	3668.37	3852.54	
130	3548.01	3726.19	
135	3408.97	3580.22	
140	3251.64	3415.07	
145	3077.02	3231.77	
150	2886.72	3032.02	
155	2682.91	2818.08	
160	2468.24	2592.77	
165	2245.78	2359.30	
170	2018.91	2121.22	
175	1791.20	1882.30	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1566.33	1646.41	
185	1348.02	1417.46	
190	1139.96	1199.37	
195	945.87	996.07	
200	769.58	811.64	
205	615.27	650.50	
210	487.75	517.77	
215	392.35	418.94	
220	332.91	357.75	
225	306.96	331.17	
230	303.38	327.52	
235	308.32	332.56	
240	311.93	336.26	
245	310.27	334.56	
250	305.01	329.19	
255	303.65	327.80	
260	318.97	343.46	
265	364.20	389.91	
270	445.45	473.88	
275	560.75	593.69	
280	704.97	744.12	
285	872.99	919.80	
290	1060.44	1116.06	
295	1263.35	1328.70	
300	1478.01	1553.78	
305	1700.70	1787.36	
310	1927.72	2025.54	
315	2155.37	2264.42	
320	2380.01	2500.17	
325	2598.18	2729.15	
330	2806.68	2948.00	
335	3002.67	3153.73	
340	3183.79	3343.84	
345	3348.19	3516.42	
350	3494.63	3670.15	
355	3622.47	3804.35	

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