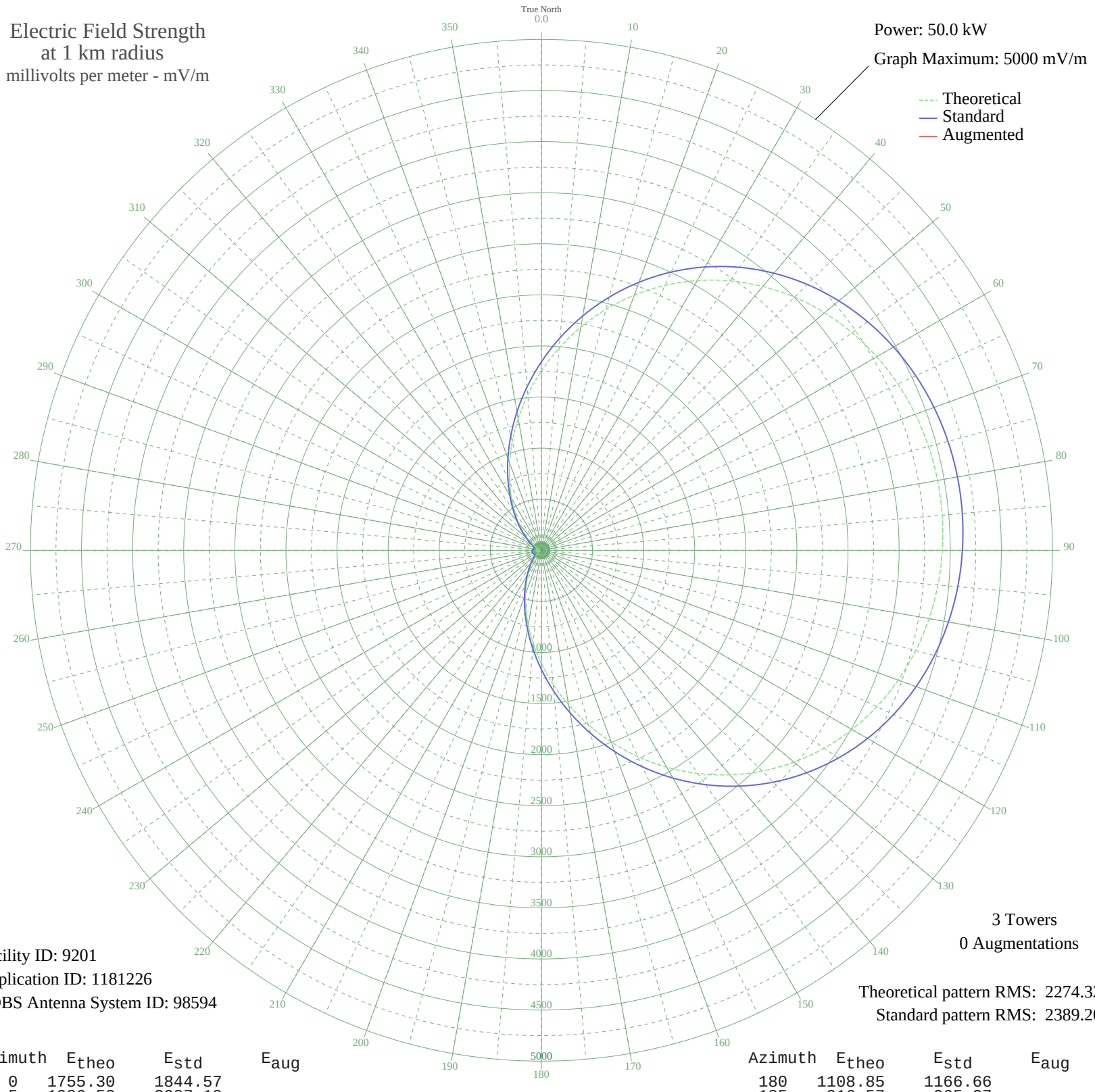
WCRN WORCESTER, MA BL-20070329APL 830 kHz

Nighttime

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



Power: 50.0 kW

Graph Maximum: 5000 mV/m

Theoretical
Standard
Augmented

3 Towers
0 Augmentations

Facility ID: 9201
Application ID: 1181226
CDBS Antenna System ID: 98594

Theoretical pattern RMS: 2274.32
Standard pattern RMS: 2389.20

Azimuth	E_{theo}	E_{std}	E_{aug}
0	1755.30	1844.57	
5	1986.53	2087.18	
10	2216.84	2328.87	
15	2441.88	2565.05	
20	2657.66	2791.53	
25	2860.76	3004.72	
30	3048.48	3201.77	
35	3218.83	3380.59	
40	3370.57	3539.88	
45	3503.17	3679.08	
50	3616.66	3798.22	
55	3711.51	3897.79	
60	3788.52	3978.64	
65	3848.62	4041.74	
70	3892.77	4088.08	
75	3921.77	4118.53	
80	3936.26	4133.74	
85	3936.54	4134.03	
90	3922.63	4119.43	
95	3894.21	4089.60	
100	3850.69	4043.91	
105	3791.24	3981.50	
110	3714.93	3901.38	
115	3620.80	3802.57	
120	3508.08	3684.23	
125	3376.25	3545.84	
130	3225.26	3387.34	
135	3055.64	3209.28	
140	2868.59	3012.93	
145	2666.05	2800.34	
150	2450.72	2574.33	
155	2225.98	2338.46	
160	1995.79	2096.90	
165	1764.51	1854.23	
170	1536.68	1615.22	
175	1316.74	1384.58	

Azimuth	E_{theo}	E_{std}	E_{aug}
180	1108.85	1166.66	
185	916.57	965.27	
190	742.73	783.40	
195	589.21	623.12	
200	456.91	485.49	
205	345.72	370.54	
210	254.54	277.42	
215	181.45	204.52	
220	123.90	149.85	
225	79.06	111.45	
230	44.32	87.72	
235	18.65	76.90	
240	13.95	75.80	
245	28.24	80.06	
250	41.06	85.96	
255	50.04	91.05	
260	54.68	93.95	
265	54.77	94.01	
270	50.31	91.22	
275	41.50	86.19	
280	28.81	80.29	
285	14.42	75.89	
290	17.87	76.70	
295	43.11	87.06	
300	77.49	110.23	
305	121.88	148.01	
310	178.87	202.00	
315	251.28	274.13	
320	341.70	366.41	
325	452.06	480.46	
330	583.50	617.18	
335	736.19	776.56	
340	909.25	957.60	
345	1100.84	1158.27	
350	1308.17	1375.59	
355	1527.70	1605.80	

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.

06 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission