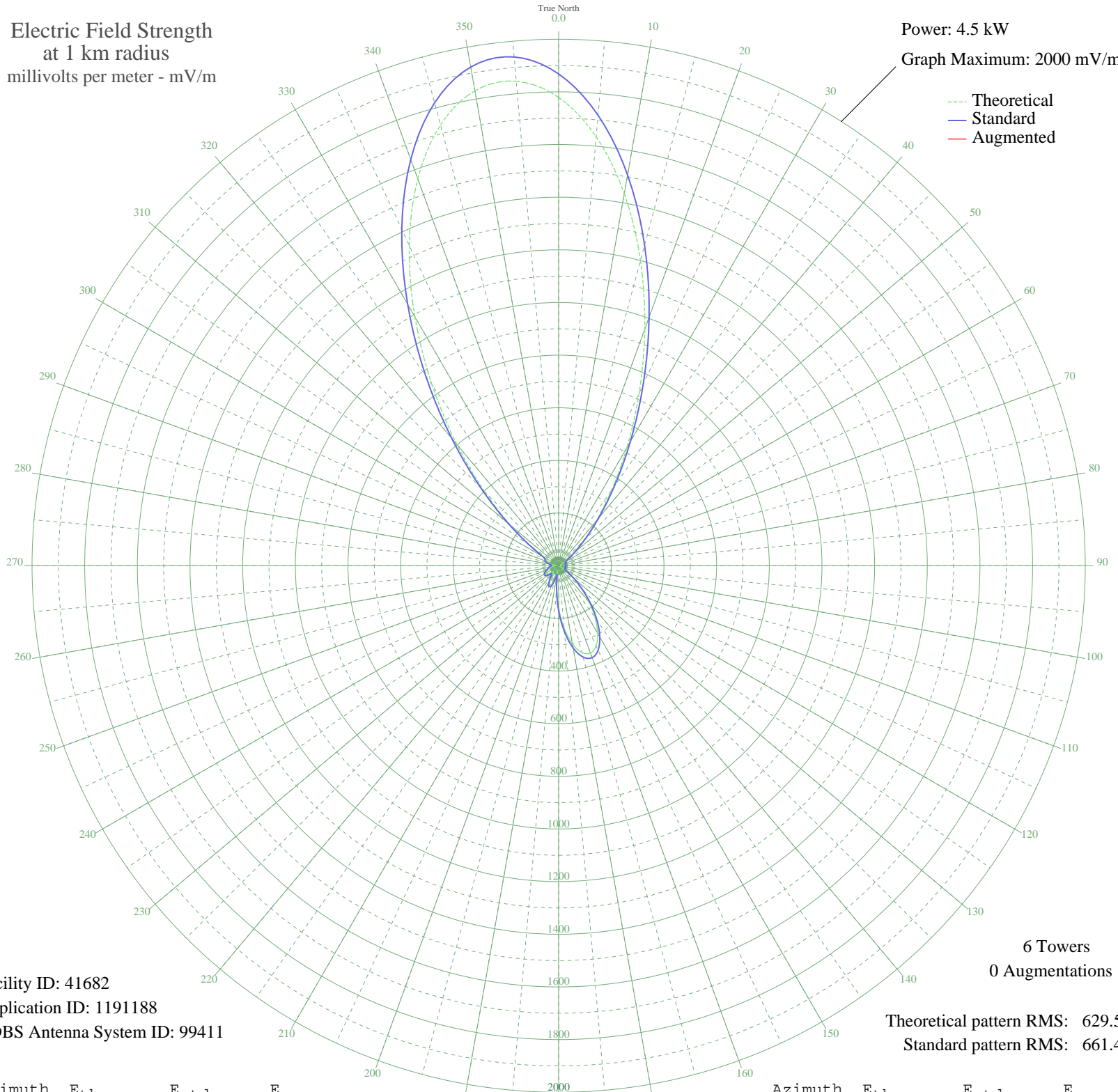


# WOAP WAVERLY, MI BMP-20070620ADM 1080 kHz

Nighttime

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

Power: 4.5 kW  
Graph Maximum: 2000 mV/m



Facility ID: 41682  
Application ID: 1191188  
CDBS Antenna System ID: 99411

6 Towers  
0 Augmentations

Theoretical pattern RMS: 629.50  
Standard pattern RMS: 661.40

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1779.03	1868.15	
5	1635.70	1717.67	
10	1435.19	1507.16	
15	1200.55	1260.83	
20	956.04	1004.15	
25	723.29	759.87	
30	518.42	544.93	
35	350.74	369.14	
40	222.89	235.39	
45	132.16	141.04	
50	72.45	80.13	
55	36.22	45.60	
60	16.29	30.43	
65	7.81	26.47	
70	8.00	26.54	
75	10.48	27.47	
80	12.19	28.24	
85	12.28	28.28	
90	10.28	27.39	
95	6.22	26.01	
100	1.54	25.22	
105	5.07	25.73	
110	7.69	26.44	
115	4.60	25.63	
120	7.91	26.51	
125	32.18	42.14	
130	69.92	77.61	
135	120.23	128.72	
140	179.45	190.10	
145	241.11	254.41	
150	296.59	312.43	
155	336.60	354.33	
160	353.11	371.62	
165	341.30	359.25	
170	301.09	317.14	
175	237.57	250.71	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	160.27	170.16	
185	81.62	89.33	
190	21.68	33.94	
195	47.22	55.60	
200	73.98	81.66	
205	79.13	86.82	
210	66.54	74.26	
215	44.77	53.32	
220	28.92	39.44	
225	35.63	45.09	
230	49.09	57.36	
235	56.31	64.26	
240	55.54	63.52	
245	48.90	57.18	
250	40.11	49.06	
255	32.65	42.53	
260	27.31	38.16	
265	21.61	33.89	
270	13.63	28.95	
275	11.27	27.82	
280	24.12	35.71	
285	38.50	47.63	
290	46.96	55.36	
295	47.98	56.32	
300	61.85	69.65	
305	123.58	132.18	
310	236.47	249.56	
315	397.12	417.73	
320	600.85	631.40	
325	837.83	880.08	
330	1092.02	1146.89	
335	1342.11	1409.44	
340	1563.84	1642.23	
345	1733.51	1820.36	
350	1831.83	1923.59	
355	1847.43	1939.97	

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission