

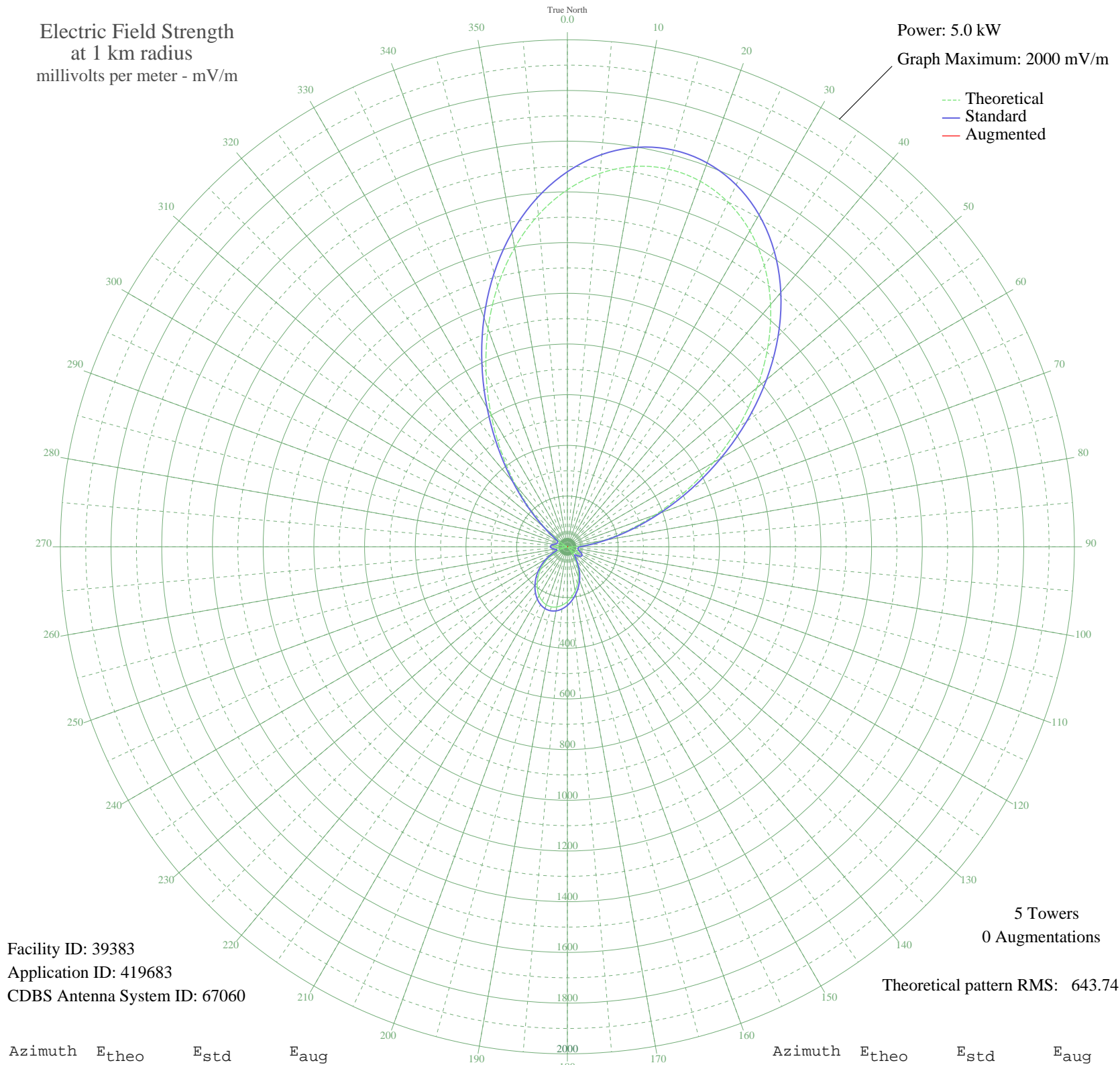
WIMS MICHIGAN CITY, IN BL-19800611AA 1420 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 39383  
Application ID: 419683  
CDBS Antenna System ID: 67060

5 Towers  
0 Augmentations

Theoretical pattern RMS: 643.74

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1408.45	1479.48	
5	1478.79	1553.30	
10	1523.63	1600.37	
15	1542.21	1619.87	
20	1534.23	1611.51	
25	1499.84	1575.40	
30	1439.57	1512.14	
35	1354.57	1422.93	
40	1246.76	1309.78	
45	1119.06	1175.78	
50	975.62	1025.28	
55	821.87	864.01	
60	664.40	698.91	
65	510.63	537.84	
70	368.17	388.90	
75	244.04	259.73	
80	143.74	156.78	
85	70.43	85.26	
90	24.45	49.59	
95	3.17	42.56	
100	1.41	42.46	
105	12.00	44.26	
110	27.83	51.52	
115	42.03	61.22	
120	49.54	67.13	
125	47.55	65.53	
130	35.58	56.53	
135	15.06	45.28	
140	11.51	44.12	
145	41.03	60.47	
150	71.13	85.89	
155	100.15	113.39	
160	127.37	140.31	
165	152.71	165.86	
170	176.19	189.81	
175	197.58	211.76	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	216.19	230.93	
185	231.00	246.24	
190	240.95	256.53	
195	245.20	260.93	
200	243.37	259.03	
205	235.62	251.01	
210	222.63	237.58	
215	205.41	219.81	
220	185.03	198.86	
225	162.33	175.65	
230	137.73	150.71	
235	111.27	124.30	
240	82.92	96.86	
245	53.11	70.08	
250	23.10	48.87	
255	5.08	42.76	
260	28.27	51.78	
265	43.92	62.67	
270	49.97	67.47	
275	46.05	64.33	
280	34.03	55.47	
285	18.12	46.50	
290	4.51	42.69	
295	0.69	42.44	
300	13.21	44.64	
305	48.84	66.56	
310	111.09	124.12	
315	200.83	215.09	
320	315.97	334.47	
325	451.87	476.36	
330	602.02	633.54	
335	758.93	798.00	
340	915.02	961.70	
345	1063.30	1117.27	
350	1197.86	1258.47	
355	1314.05	1380.40	

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.

04 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission