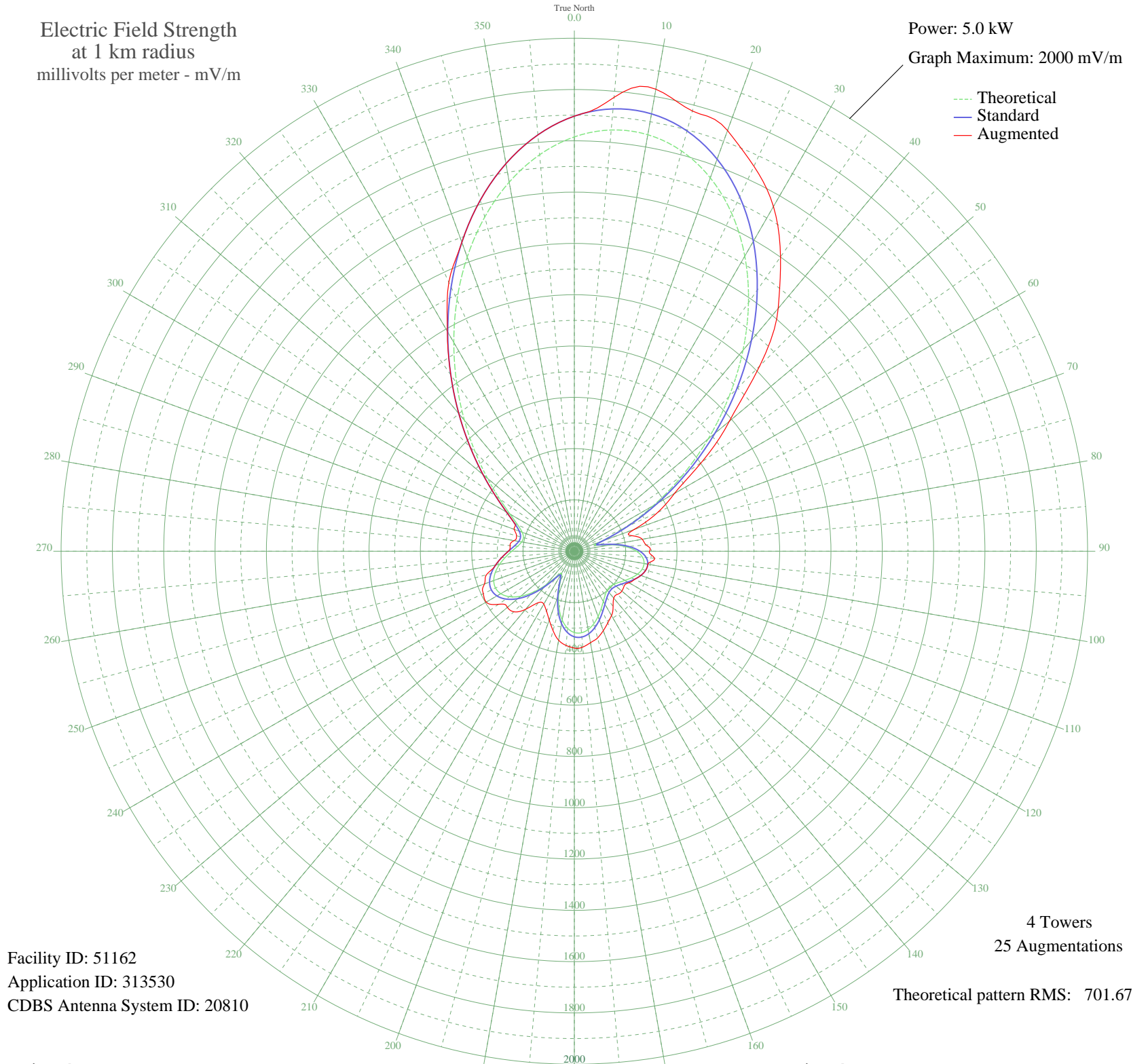


# WGRB CHICAGO, IL BL-- 1390 kHz

Daytime

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: 51162  
Application ID: 313530  
CDBS Antenna System ID: 20810

4 Towers  
25 Augmentations

Theoretical pattern RMS: 701.67

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1615.32	1696.25	1696.25
5	1648.51	1731.10	1776.23
10	1648.83	1731.43	1828.95
15	1615.42	1696.35	1776.89
20	1549.05	1626.67	1745.35
25	1452.12	1524.90	1656.00
30	1328.47	1395.09	1551.76
35	1183.19	1242.58	1400.71
40	1022.33	1073.71	1235.78
45	852.47	895.41	1021.94
50	680.39	714.80	788.58
55	512.72	538.87	606.45
60	355.88	374.42	450.66
65	216.85	228.90	359.05
70	109.77	117.62	248.27
75	88.58	95.93	233.38
80	145.11	154.16	268.77
85	201.56	212.94	280.84
90	242.40	255.60	292.89
95	266.57	280.88	313.82
100	275.86	290.60	290.60
105	273.14	287.76	287.76
110	261.80	275.90	275.90
115	245.45	258.79	259.30
120	227.68	240.21	245.74
125	211.80	223.63	236.88
130	200.59	211.92	241.80
135	195.97	207.11	237.59
140	198.87	210.13	238.81
145	209.18	220.89	263.27
150	225.92	238.38	289.68
155	247.25	260.67	308.46
160	270.58	285.08	329.67
165	292.69	308.22	350.03
170	310.03	326.37	362.06
175	319.10	335.88	375.31

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	316.94	333.61	377.55
185	301.52	317.46	368.77
190	272.19	286.76	352.44
195	230.10	242.74	320.44
200	178.98	189.39	285.75
205	127.73	136.15	256.98
210	98.94	106.51	238.05
215	119.67	127.83	244.60
220	170.48	180.54	295.84
225	225.22	237.64	333.77
230	272.94	287.55	340.44
235	308.88	325.17	360.67
240	330.98	348.32	396.57
245	339.01	356.73	391.45
250	334.15	351.65	372.54
255	318.76	335.52	354.74
260	296.03	311.72	311.72
265	269.72	284.17	284.17
270	243.80	257.06	257.06
275	222.17	234.46	251.65
280	208.36	220.04	238.27
285	205.45	217.00	233.35
290	216.28	228.30	249.45
295	243.57	256.82	256.82
300	289.59	304.98	304.98
305	355.62	374.14	374.14
310	441.58	464.25	464.25
315	546.09	573.87	573.87
320	666.53	700.25	700.25
325	799.22	839.51	839.51
330	939.49	986.74	989.75
335	1081.89	1136.22	1157.12
340	1220.44	1281.68	1281.68
345	1348.92	1416.56	1416.56
350	1461.21	1534.45	1534.45
355	1551.63	1629.38	1629.38

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