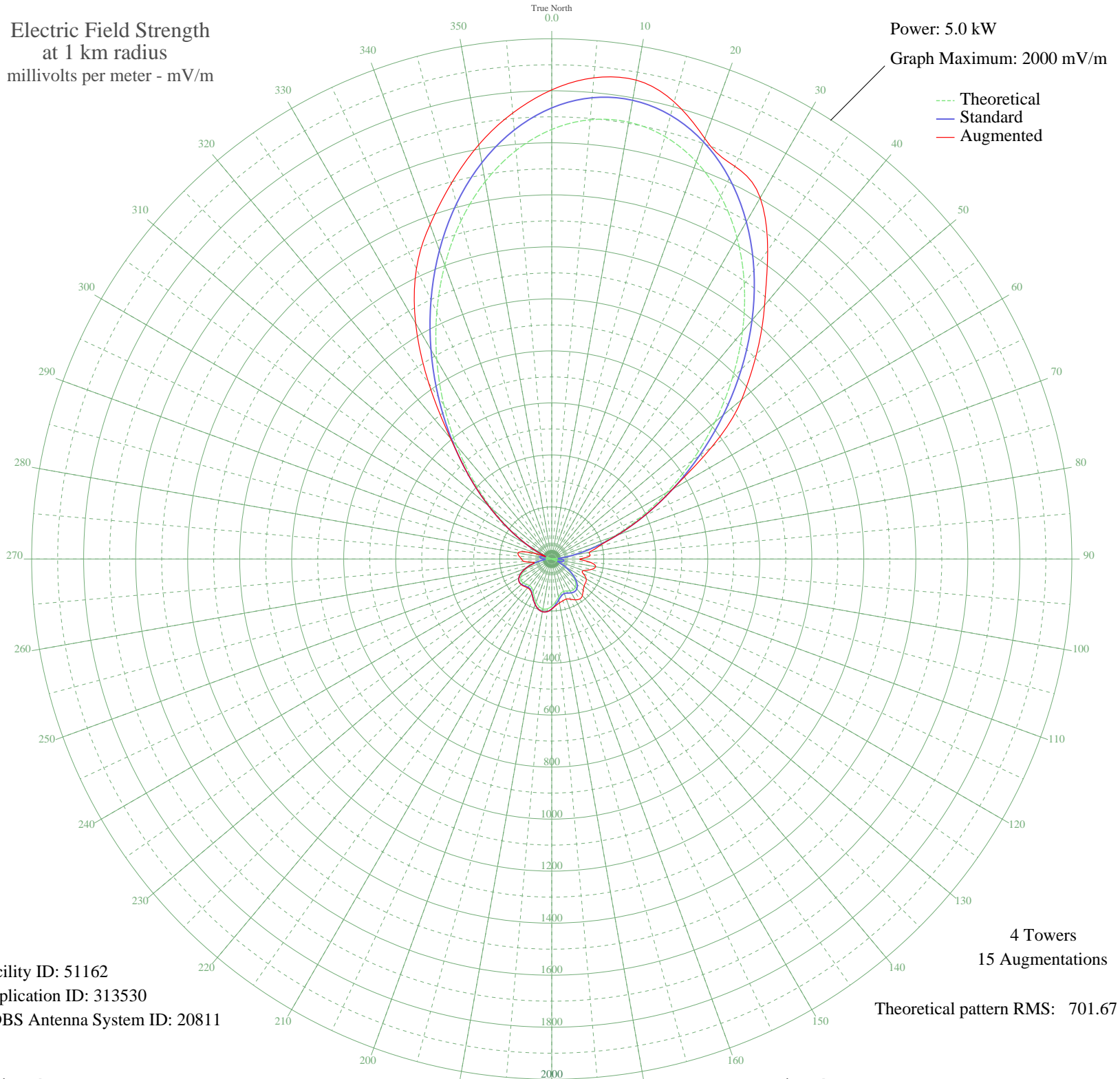


# WGRB CHICAGO, IL BL-- 1390 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 51162  
Application ID: 313530  
CDBS Antenna System ID: 20811

4 Towers  
15 Augmentations  
Theoretical pattern RMS: 701.67

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1651.49	1734.23	1803.55
5	1695.11	1780.02	1857.00
10	1705.30	1790.71	1869.55
15	1681.59	1765.83	1819.10
20	1625.09	1706.50	1720.58
25	1538.34	1615.42	1665.78
30	1425.25	1496.70	1603.29
35	1290.82	1355.57	1447.58
40	1140.87	1198.14	1273.15
45	981.64	1030.99	1113.40
50	819.51	860.80	953.44
55	660.57	694.00	752.11
60	510.38	536.41	536.41
65	373.61	393.00	393.00
70	253.96	267.69	267.69
75	153.97	163.36	186.78
80	75.03	82.21	146.99
85	17.44	29.78	148.06
90	19.56	31.19	108.10
95	37.62	45.95	149.57
100	39.15	47.34	171.04
105	27.17	36.95	156.50
110	5.12	24.09	130.85
115	23.28	33.89	133.63
120	54.29	61.65	152.89
125	84.33	91.60	158.68
130	110.23	118.10	162.50
135	129.58	138.07	171.08
140	140.95	149.84	183.11
145	144.29	153.32	187.50
150	141.31	150.22	181.27
155	135.67	144.38	170.67
160	132.67	141.26	163.95
165	136.96	145.71	166.17
170	149.28	158.49	171.31
175	165.94	175.81	180.13

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	181.69	192.21	192.33
185	192.14	203.11	203.11
190	194.71	205.79	205.79
195	188.80	199.63	199.63
200	175.81	186.09	186.09
205	159.10	168.69	168.96
210	143.55	152.55	153.85
215	134.20	142.85	145.38
220	133.20	141.82	144.84
225	137.93	146.72	149.17
230	143.07	152.05	153.35
235	143.85	152.86	153.16
240	137.39	146.16	146.16
245	122.75	131.00	131.00
250	100.54	108.15	108.15
255	72.64	79.81	79.81
260	41.81	49.78	74.82
265	11.40	26.35	106.50
270	14.92	28.22	115.96
275	33.37	42.18	126.05
280	40.34	48.43	131.97
285	32.53	41.45	105.85
290	7.14	24.65	40.21
295	37.94	46.24	46.24
300	104.04	111.73	111.73
305	191.49	202.43	202.43
310	299.58	315.43	315.43
315	426.45	448.39	448.39
320	569.09	598.00	605.80
325	723.39	759.93	824.54
330	884.31	928.82	1046.96
335	1046.03	1098.58	1231.15
340	1202.32	1262.65	1368.03
345	1346.80	1414.33	1494.05
350	1473.35	1547.19	1616.90
355	1576.44	1655.43	1721.02