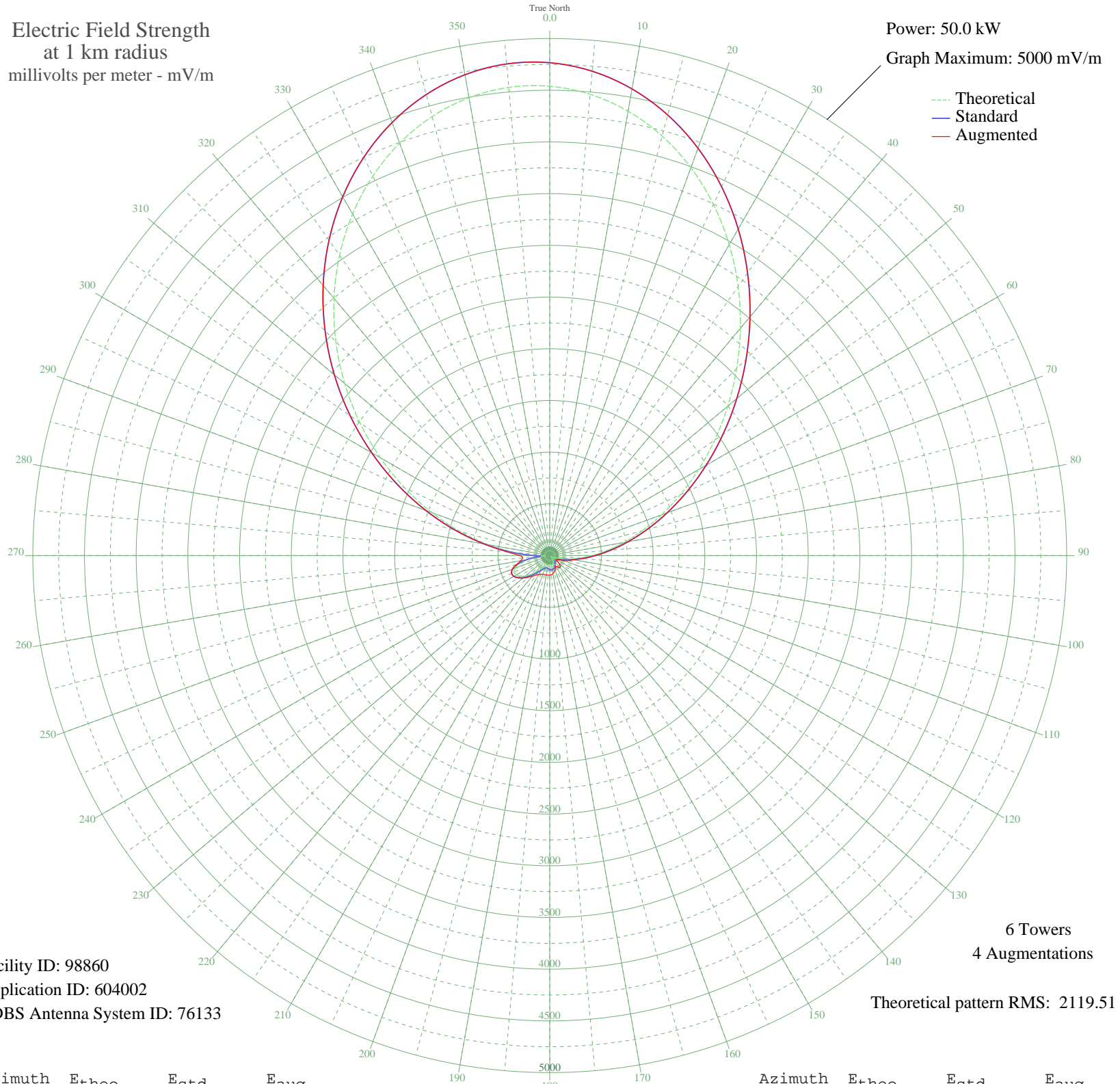


# CIGM SUDBURY, ON Canada -- 790 kHz

Nighttime

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

Power: 50.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 98860  
Application ID: 604002  
CDBS Antenna System ID: 76133

6 Towers  
4 Augmentations  
Theoretical pattern RMS: 2119.51

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	4538.55	4766.06	4766.06
5	4477.64	4702.10	4702.10
10	4363.52	4582.30	4582.30
15	4199.79	4410.41	4410.41
20	3991.84	4192.09	4192.09
25	3746.59	3934.62	3934.62
30	3471.99	3646.35	3646.35
35	3176.58	3336.24	3336.24
40	2868.87	3013.22	3013.22
45	2556.88	2685.75	2685.75
50	2247.82	2361.37	2361.37
55	1947.85	2046.59	2046.59
60	1662.05	1746.73	1746.73
65	1394.45	1466.06	1466.06
70	1148.19	1207.89	1207.89
75	925.62	974.73	974.73
80	728.39	768.40	768.40
85	557.50	590.06	590.06
90	413.27	440.23	440.23
95	295.24	318.76	318.76
100	202.14	224.86	233.11
105	131.86	157.10	188.01
110	81.45	113.25	141.36
115	47.27	89.31	90.79
120	25.25	78.84	78.84
125	12.27	75.36	83.86
130	11.50	75.22	117.00
135	21.30	77.54	143.95
140	34.58	82.65	149.27
145	49.89	90.86	135.22
150	66.30	101.78	119.98
155	82.48	114.08	129.13
160	96.71	125.80	148.41
165	107.25	134.89	165.20
170	112.74	139.74	177.88
175	112.66	139.66	185.79

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	107.72	135.30	189.37
185	100.13	128.71	189.99
190	93.53	123.12	189.58
195	92.21	122.01	190.00
200	99.12	127.85	192.69
205	114.92	141.67	199.00
210	139.26	163.99	210.83
215	172.03	195.30	230.55
220	212.57	235.23	259.71
225	258.52	281.42	297.14
230	305.31	329.06	338.35
235	346.46	371.29	376.18
240	374.35	400.01	402.11
245	380.95	406.83	407.36
250	358.78	383.97	383.97
255	301.62	325.29	329.49
260	205.43	228.13	283.79
265	73.46	107.06	262.73
270	126.98	152.61	290.14
275	345.91	370.71	415.42
280	604.80	639.37	644.11
285	895.83	943.55	943.55
290	1212.27	1275.04	1275.04
295	1547.03	1626.08	1626.08
300	1892.87	1988.90	1988.90
305	2242.57	2355.87	2355.87
310	2589.15	2719.62	2719.62
315	2925.91	3073.10	3073.10
320	3246.40	3409.52	3409.52
325	3544.42	3722.38	3722.38
330	3813.96	4005.34	4005.34
335	4049.19	4252.29	4252.29
340	4244.57	4457.41	4457.41
345	4395.01	4615.36	4615.36
350	4496.14	4721.53	4721.53
355	4544.64	4772.45	4772.45

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission