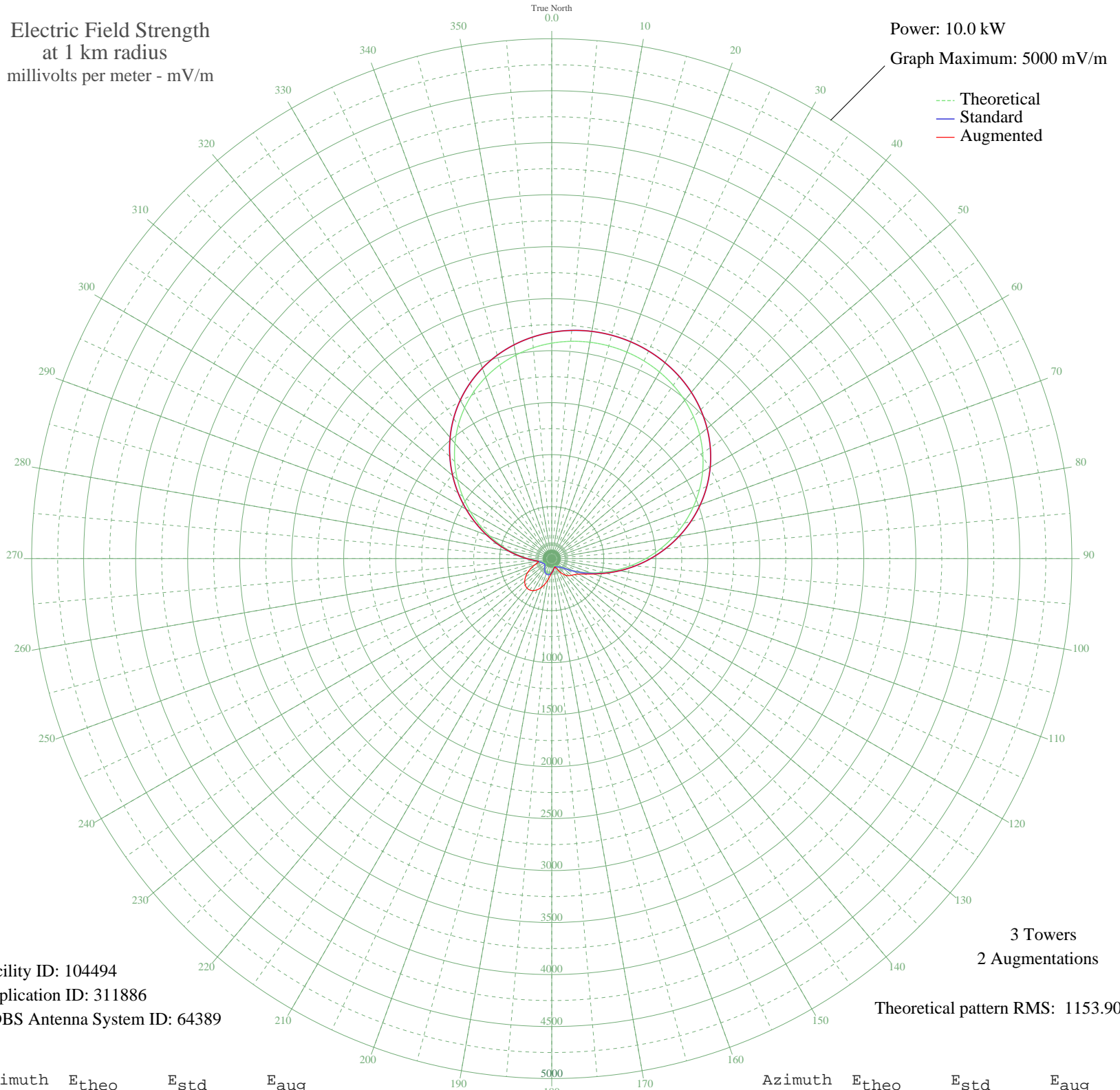


# CFRW WINNIPEG, MB Canada -- 1290 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 104494  
Application ID: 311886  
CDBS Antenna System ID: 64389

3 Towers  
2 Augmentations  
Theoretical pattern RMS: 1153.90

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	2072.40	2176.41	2176.41
5	2098.03	2203.32	2203.32
10	2113.22	2219.27	2219.27
15	2118.25	2224.55	2224.55
20	2113.22	2219.27	2219.27
25	2098.03	2203.32	2203.32
30	2072.40	2176.41	2176.41
35	2035.90	2138.10	2138.10
40	1988.03	2087.84	2087.84
45	1928.28	2025.12	2025.12
50	1856.26	1949.52	1949.52
55	1771.79	1860.84	1860.84
60	1675.00	1759.24	1759.24
65	1566.47	1645.32	1645.32
70	1447.27	1520.19	1520.19
75	1319.00	1385.57	1385.57
80	1183.84	1243.72	1243.72
85	1044.46	1097.46	1097.46
90	903.95	950.04	950.04
95	765.66	805.00	805.00
100	633.07	666.01	666.01
105	509.60	536.68	539.33
110	398.44	420.41	432.91
115	302.47	320.28	352.03
120	224.13	238.95	298.52
125	165.28	178.40	267.70
130	126.33	138.95	249.00
135	104.41	117.18	231.44
140	92.87	105.92	207.94
145	84.99	98.36	176.13
150	77.75	91.51	138.02
155	72.15	86.31	101.54
160	71.59	85.80	85.80
165	78.48	92.20	92.20
170	91.54	104.64	104.64
175	107.33	120.05	120.05

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

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	122.61	135.22	135.22
185	135.02	147.69	163.11
190	143.05	155.79	206.68
195	145.81	158.59	253.04
200	143.05	155.79	295.37
205	135.02	147.69	329.98
210	122.61	135.22	354.67
215	107.33	120.05	368.20
220	91.54	104.64	370.00
225	78.48	92.20	360.08
230	71.59	85.80	338.92
235	72.15	86.31	307.45
240	77.75	91.51	267.12
245	84.99	98.36	220.34
250	92.87	105.92	172.23
255	104.41	117.18	136.10
260	126.33	138.95	138.95
265	165.28	178.41	178.41
270	224.13	238.95	238.95
275	302.47	320.28	320.28
280	398.44	420.41	420.41
285	509.60	536.68	536.68
290	633.07	666.01	666.01
295	765.66	805.00	805.00
300	903.95	950.05	950.05
305	1044.46	1097.46	1097.46
310	1183.84	1243.72	1243.72
315	1319.00	1385.57	1385.57
320	1447.27	1520.19	1520.19
325	1566.47	1645.32	1645.32
330	1675.01	1759.24	1759.24
335	1771.79	1860.84	1860.84
340	1856.26	1949.52	1949.52
345	1928.28	2025.12	2025.12
350	1988.03	2087.84	2087.84
355	2035.90	2138.10	2138.10