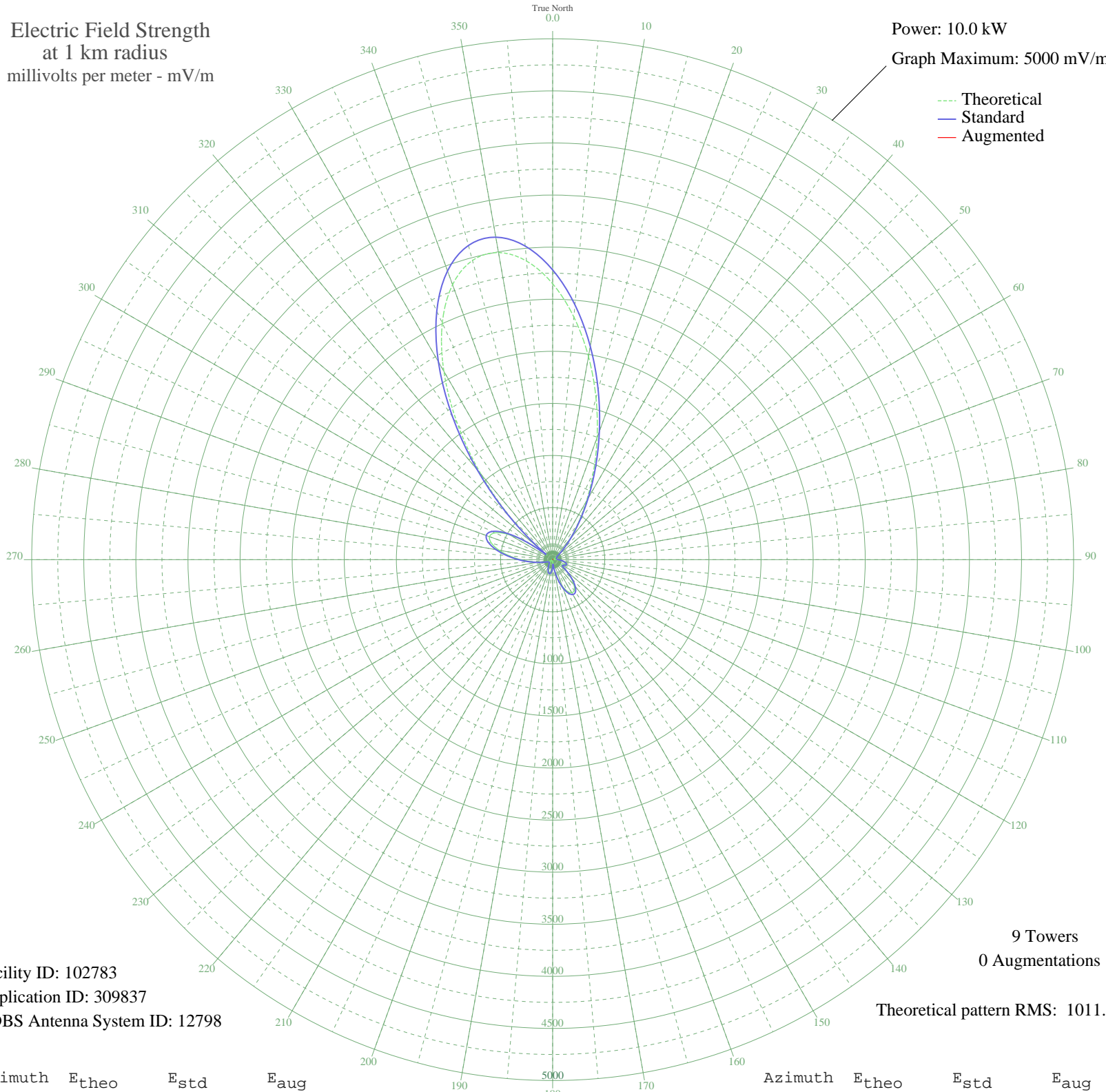


# CHSC ST. CATHARINES, ON Canada -- 1220 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 102783  
Application ID: 309837  
CDBS Antenna System ID: 12798

9 Towers  
0 Augmentations

Theoretical pattern RMS: 1011.31

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	2648.97	2781.70	
5	2338.23	2455.45	
10	1979.88	2079.25	
15	1607.00	1687.81	
20	1247.76	1310.74	
25	923.32	970.28	
30	647.15	680.65	
35	425.52	448.53	
40	258.63	274.40	
45	142.22	154.44	
50	69.11	82.57	
55	30.25	50.60	
60	13.91	42.01	
65	6.55	39.99	
70	6.95	40.06	
75	9.52	40.64	
80	4.89	39.72	
85	10.90	41.02	
90	36.36	54.86	
95	68.31	81.83	
100	99.91	112.05	
105	122.74	134.76	
110	129.15	141.21	
115	116.34	128.35	
120	95.99	108.21	
125	109.06	121.10	
130	171.66	184.50	
135	250.32	265.77	
140	318.85	337.10	
145	360.63	380.70	
150	366.39	386.72	
155	334.59	353.52	
160	271.00	287.27	
165	186.92	200.18	
170	96.38	108.59	
175	16.39	42.98	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	57.19	71.81	
185	101.58	113.70	
190	123.22	135.24	
195	125.02	137.05	
200	112.63	124.65	
205	92.44	104.75	
210	70.10	83.49	
215	49.52	65.24	
220	32.52	52.13	
225	19.12	44.21	
230	8.70	40.44	
235	5.59	39.83	
240	14.20	42.12	
245	27.33	48.73	
250	48.54	64.42	
255	83.64	96.25	
260	137.63	149.78	
265	213.04	227.13	
270	308.27	326.08	
275	416.10	438.68	
280	522.57	550.11	
285	607.20	638.78	
290	644.78	678.16	
295	609.02	640.68	
300	477.63	503.06	
305	239.23	254.26	
310	131.02	143.10	
315	565.77	595.36	
320	1070.64	1124.86	
325	1594.78	1674.98	
330	2088.93	2193.74	
335	2506.26	2631.86	
340	2809.00	2949.71	
345	2973.67	3122.60	
350	2993.46	3143.38	
355	2877.72	3021.86	

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.

23 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission