

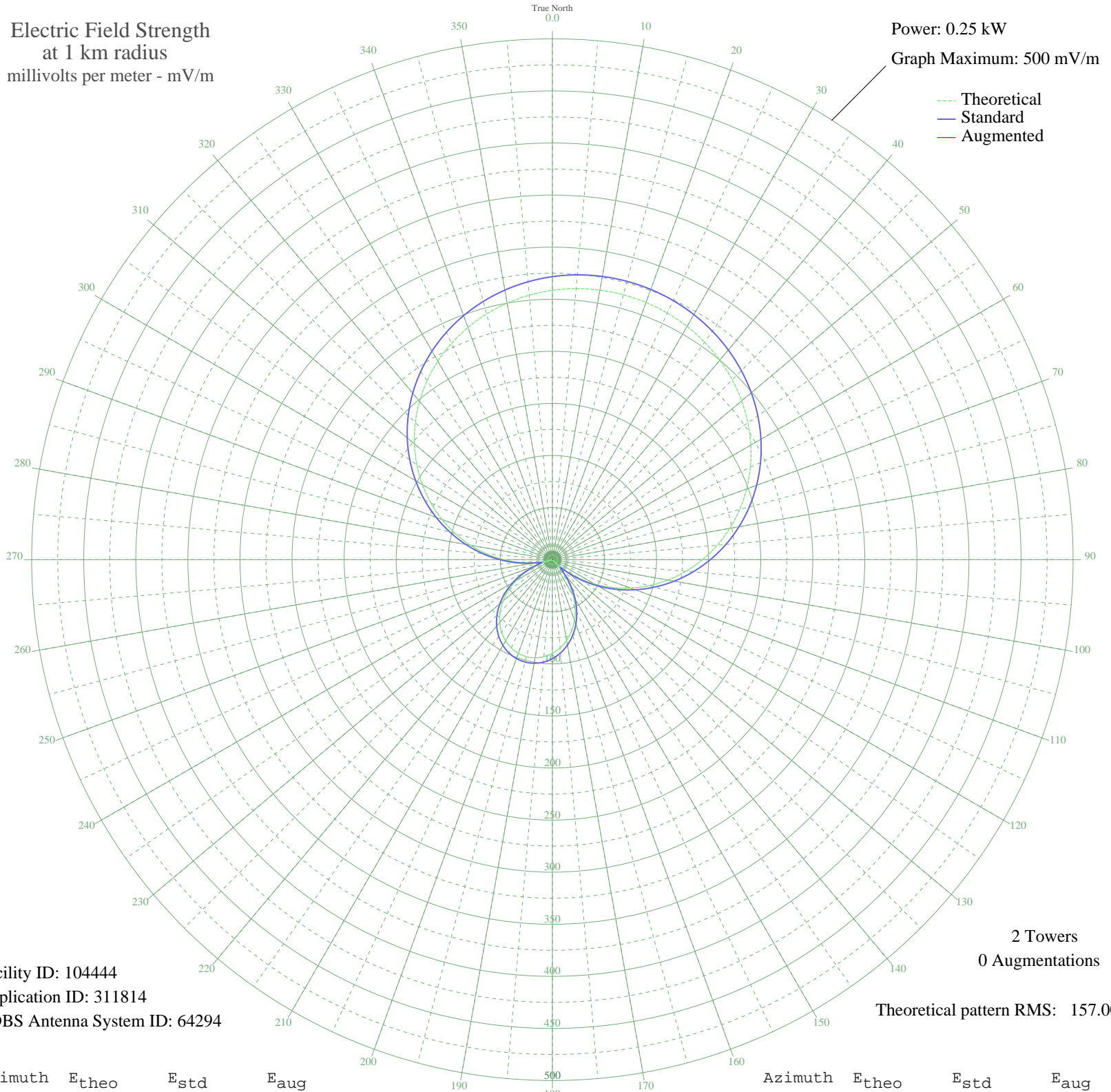
**- CAMPINA GRAN, - Brazil -- 1420 kHz**

**Nighttime**

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

Power: 0.25 kW  
Graph Maximum: 500 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 104444  
Application ID: 311814  
CDBS Antenna System ID: 64294

2 Towers  
0 Augmentations  
Theoretical pattern RMS: 157.00

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	258.54	271.67	
5	261.17	274.43	
10	262.75	276.09	
15	263.27	276.64	
20	262.75	276.09	
25	261.17	274.43	
30	258.54	271.67	
35	254.83	267.78	
40	250.05	262.76	
45	244.17	256.60	
50	237.20	249.28	
55	229.13	240.82	
60	219.97	231.20	
65	209.73	220.46	
70	198.44	208.63	
75	186.16	195.75	
80	172.95	181.90	
85	158.89	167.16	
90	144.07	151.64	
95	128.62	135.46	
100	112.67	118.77	
105	96.37	101.73	
110	79.86	84.51	
115	63.31	67.30	
120	46.89	50.35	
125	30.76	33.96	
130	15.08	19.00	
135	0.00	10.50	
140	14.34	18.36	
145	27.81	31.03	
150	40.30	43.59	
155	51.70	55.29	
160	61.93	65.87	
165	70.92	75.20	
170	78.61	83.21	
175	84.96	89.83	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	89.93	95.01	
185	93.50	98.74	
190	95.65	100.98	
195	96.37	101.73	
200	95.65	100.98	
205	93.50	98.74	
210	89.93	95.01	
215	84.96	89.83	
220	78.61	83.21	
225	70.92	75.20	
230	61.93	65.87	
235	51.70	55.29	
240	40.30	43.59	
245	27.81	31.03	
250	14.34	18.36	
255	0.00	10.50	
260	15.08	19.00	
265	30.76	33.96	
270	46.89	50.35	
275	63.31	67.30	
280	79.86	84.51	
285	96.37	101.73	
290	112.67	118.77	
295	128.62	135.46	
300	144.07	151.64	
305	158.89	167.16	
310	172.95	181.90	
315	186.16	195.75	
320	198.44	208.63	
325	209.73	220.46	
330	219.97	231.20	
335	229.13	240.82	
340	237.20	249.28	
345	244.17	256.60	
350	250.05	262.76	
355	254.83	267.78	

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.

17 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission