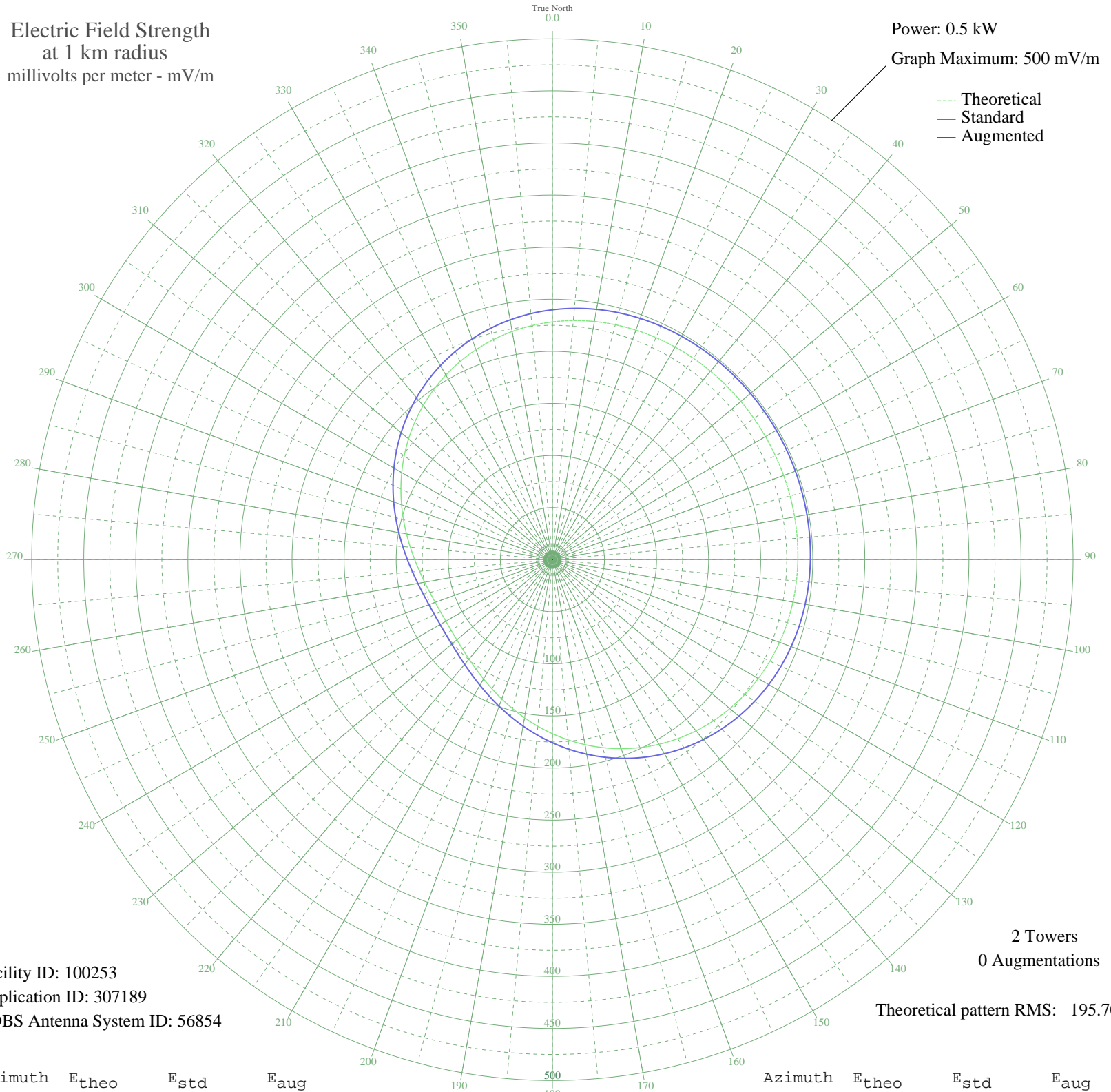


# ZYJ499 CANTAGALO, - Brazil -- 890 kHz

Nighttime

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m



Facility ID: 100253  
Application ID: 307189  
CDBS Antenna System ID: 56854

2 Towers  
0 Augmentations

Theoretical pattern RMS: 195.70

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	228.23	239.87	
5	230.41	242.16	
10	232.16	243.99	
15	233.50	245.40	
20	234.51	246.46	
25	235.22	247.20	
30	235.70	247.70	
35	235.99	248.02	
40	236.16	248.19	
45	236.24	248.27	
50	236.27	248.31	
55	236.28	248.31	
60	236.28	248.31	
65	236.28	248.31	
70	236.27	248.31	
75	236.24	248.27	
80	236.16	248.19	
85	235.99	248.02	
90	235.70	247.70	
95	235.22	247.20	
100	234.51	246.46	
105	233.50	245.40	
110	232.16	243.99	
115	230.41	242.16	
120	228.23	239.87	
125	225.56	237.07	
130	222.39	233.75	
135	218.71	229.88	
140	214.50	225.47	
145	209.80	220.54	
150	204.62	215.11	
155	199.02	209.23	
160	193.05	202.98	
165	186.79	196.41	
170	180.31	189.61	
175	173.70	182.69	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	167.07	175.74	
185	160.51	168.87	
190	154.13	162.17	
195	148.01	155.76	
200	142.26	149.74	
205	136.96	144.19	
210	132.19	139.20	
215	128.03	134.84	
220	124.54	131.19	
225	121.77	128.29	
230	119.76	126.19	
235	118.55	124.92	
240	118.14	124.49	
245	118.55	124.92	
250	119.76	126.19	
255	121.77	128.29	
260	124.54	131.19	
265	128.03	134.84	
270	132.19	139.20	
275	136.96	144.19	
280	142.26	149.74	
285	148.01	155.76	
290	154.13	162.17	
295	160.51	168.87	
300	167.07	175.74	
305	173.70	182.69	
310	180.31	189.61	
315	186.79	196.41	
320	193.05	202.98	
325	199.02	209.23	
330	204.62	215.11	
335	209.80	220.54	
340	214.50	225.47	
345	218.71	229.88	
350	222.39	233.75	
355	225.56	237.07	

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.

06 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission