

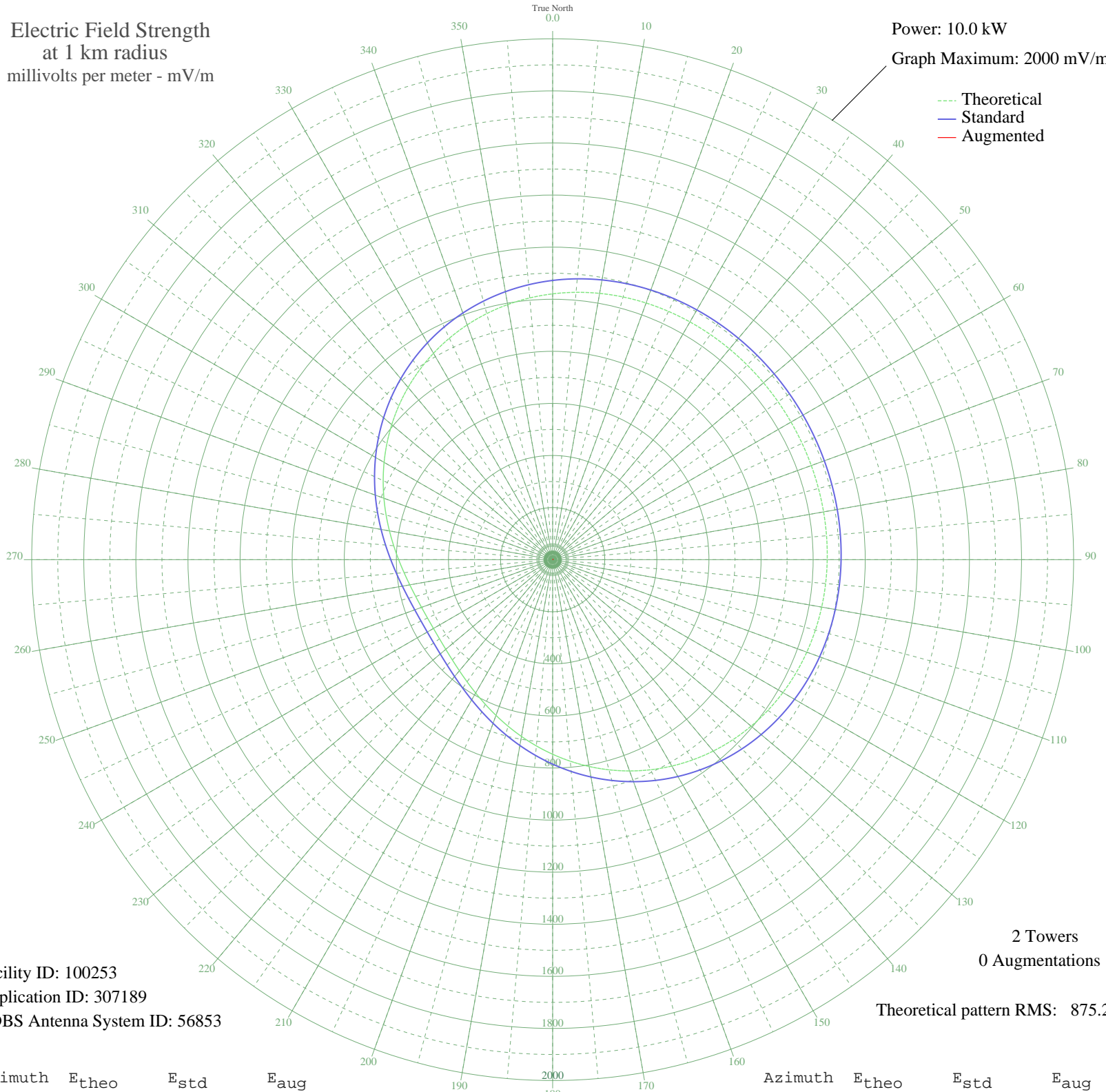
# ZYJ499 CANTAGALO, - Brazil -- 890 kHz

Daytime

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

Power: 10.0 kW  
Graph Maximum: 2000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 100253  
Application ID: 307189  
CDBS Antenna System ID: 56853

2 Towers  
0 Augmentations

Theoretical pattern RMS: 875.22

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1020.69	1072.24	
5	1030.46	1082.50	
10	1038.27	1090.68	
15	1044.29	1097.01	
20	1048.78	1101.72	
25	1051.96	1105.06	
30	1054.10	1107.30	
35	1055.42	1108.69	
40	1056.17	1109.47	
45	1056.53	1109.85	
50	1056.66	1109.99	
55	1056.69	1110.02	
60	1056.69	1110.03	
65	1056.69	1110.02	
70	1056.66	1109.99	
75	1056.53	1109.85	
80	1056.17	1109.47	
85	1055.42	1108.69	
90	1054.10	1107.30	
95	1051.96	1105.06	
100	1048.78	1101.72	
105	1044.29	1097.01	
110	1038.27	1090.68	
115	1030.46	1082.50	
120	1020.69	1072.24	
125	1008.77	1059.73	
130	994.60	1044.86	
135	978.12	1027.56	
140	959.32	1007.83	
145	938.27	985.75	
150	915.12	961.45	
155	890.07	935.16	
160	863.37	907.15	
165	835.35	877.75	
170	806.38	847.35	
175	776.85	816.37	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	747.20	785.26	
185	717.86	754.49	
190	689.30	724.52	
195	661.94	695.83	
200	636.21	668.84	
205	612.51	643.99	
210	591.19	621.64	
215	572.59	602.13	
220	556.98	585.77	
225	544.59	572.78	
230	535.61	563.37	
235	530.17	557.67	
240	528.35	555.76	
245	530.17	557.67	
250	535.61	563.37	
255	544.59	572.78	
260	556.98	585.77	
265	572.59	602.13	
270	591.19	621.64	
275	612.51	643.99	
280	636.21	668.84	
285	661.94	695.83	
290	689.30	724.52	
295	717.86	754.49	
300	747.20	785.26	
305	776.85	816.37	
310	806.38	847.35	
315	835.35	877.75	
320	863.37	907.15	
325	890.07	935.16	
330	915.12	961.45	
335	938.27	985.75	
340	959.32	1007.83	
345	978.12	1027.56	
350	994.60	1044.86	
355	1008.77	1059.73	

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.

15 Feb 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission