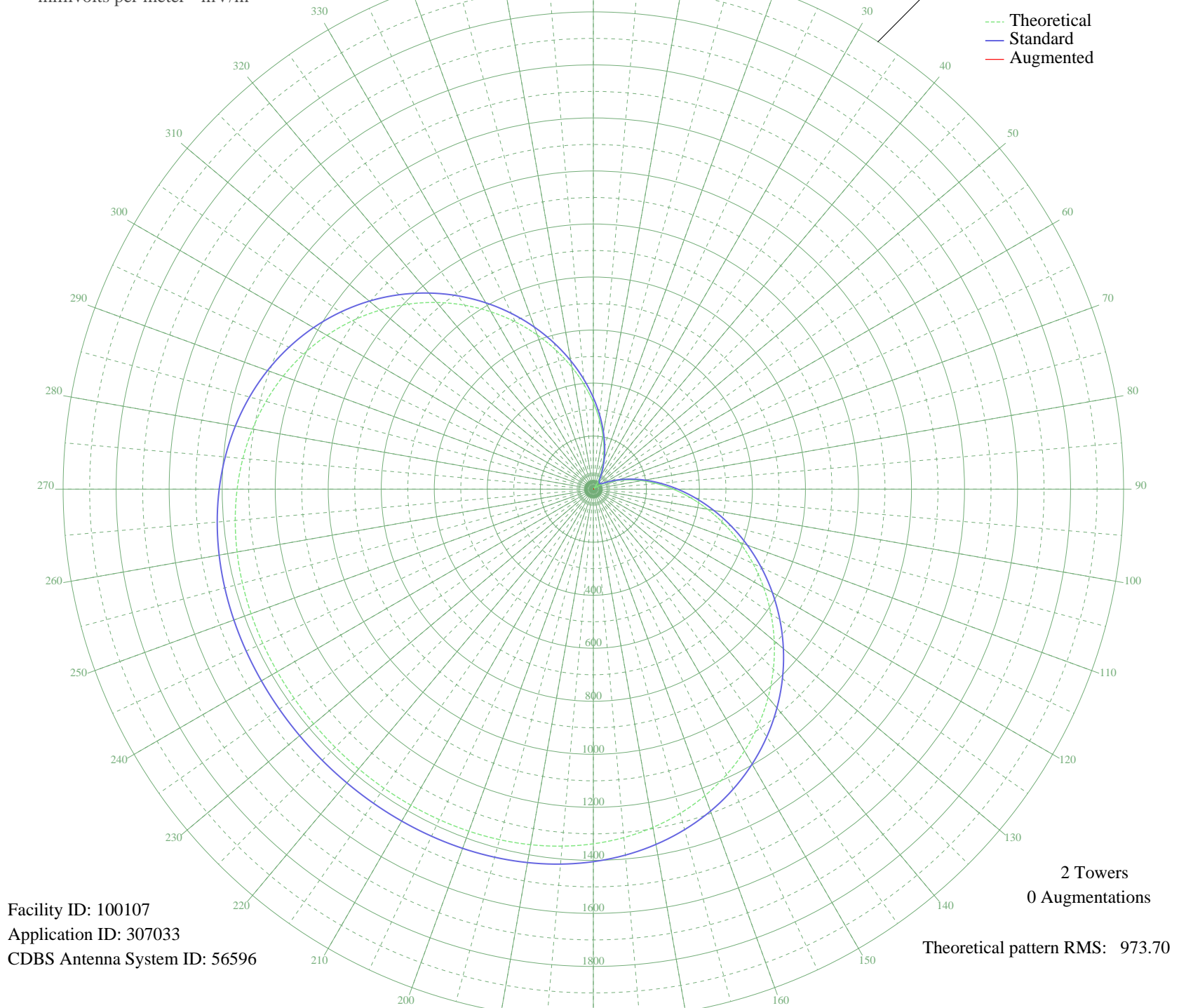


# ZYK-248 GRAVATAI, - Brazil -- 840 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 100107  
Application ID: 307033  
CDBS Antenna System ID: 56596

2 Towers  
0 Augmentations  
Theoretical pattern RMS: 973.70

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	327.07	345.03	
5	263.65	278.81	
10	205.78	218.60	
15	154.15	165.23	
20	109.34	119.51	
25	71.80	82.38	
30	41.89	55.11	
35	19.87	39.21	
40	5.92	33.78	
45	0.16	33.20	
50	2.63	33.32	
55	13.31	36.03	
60	32.12	47.33	
65	58.90	70.20	
70	93.43	103.57	
75	135.38	145.98	
80	184.34	196.39	
85	239.79	253.96	
90	301.08	317.88	
95	367.47	387.27	
100	438.07	461.17	
105	511.90	538.52	
110	587.90	618.19	
115	664.93	698.97	
120	741.82	779.62	
125	817.41	858.93	
130	890.57	935.69	
135	960.26	1008.82	
140	1025.56	1077.35	
145	1085.69	1140.46	
150	1140.07	1197.54	
155	1188.31	1248.17	
160	1230.22	1292.16	
165	1265.82	1329.53	
170	1295.32	1360.49	
175	1319.07	1385.43	

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.

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1337.61	1404.89	
185	1351.55	1419.51	
190	1361.56	1430.02	
195	1368.36	1437.17	
200	1372.67	1441.69	
205	1375.15	1444.29	
210	1376.38	1445.58	
215	1376.88	1446.10	
220	1377.01	1446.24	
225	1377.02	1446.25	
230	1377.02	1446.25	
235	1376.96	1446.18	
240	1376.65	1445.86	
245	1375.76	1444.93	
250	1373.85	1442.92	
255	1370.35	1439.25	
260	1364.63	1433.24	
265	1355.98	1424.17	
270	1343.70	1411.28	
275	1327.08	1393.83	
280	1305.48	1371.16	
285	1278.34	1342.66	
290	1245.21	1307.90	
295	1205.84	1266.57	
300	1160.12	1218.58	
305	1108.16	1164.04	
310	1050.27	1103.28	
315	986.95	1036.83	
320	918.92	965.44	
325	847.03	890.00	
330	772.28	811.57	
335	695.77	731.31	
340	618.65	650.43	
345	542.10	570.17	
350	467.27	491.75	
355	395.25	416.34	

03 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission