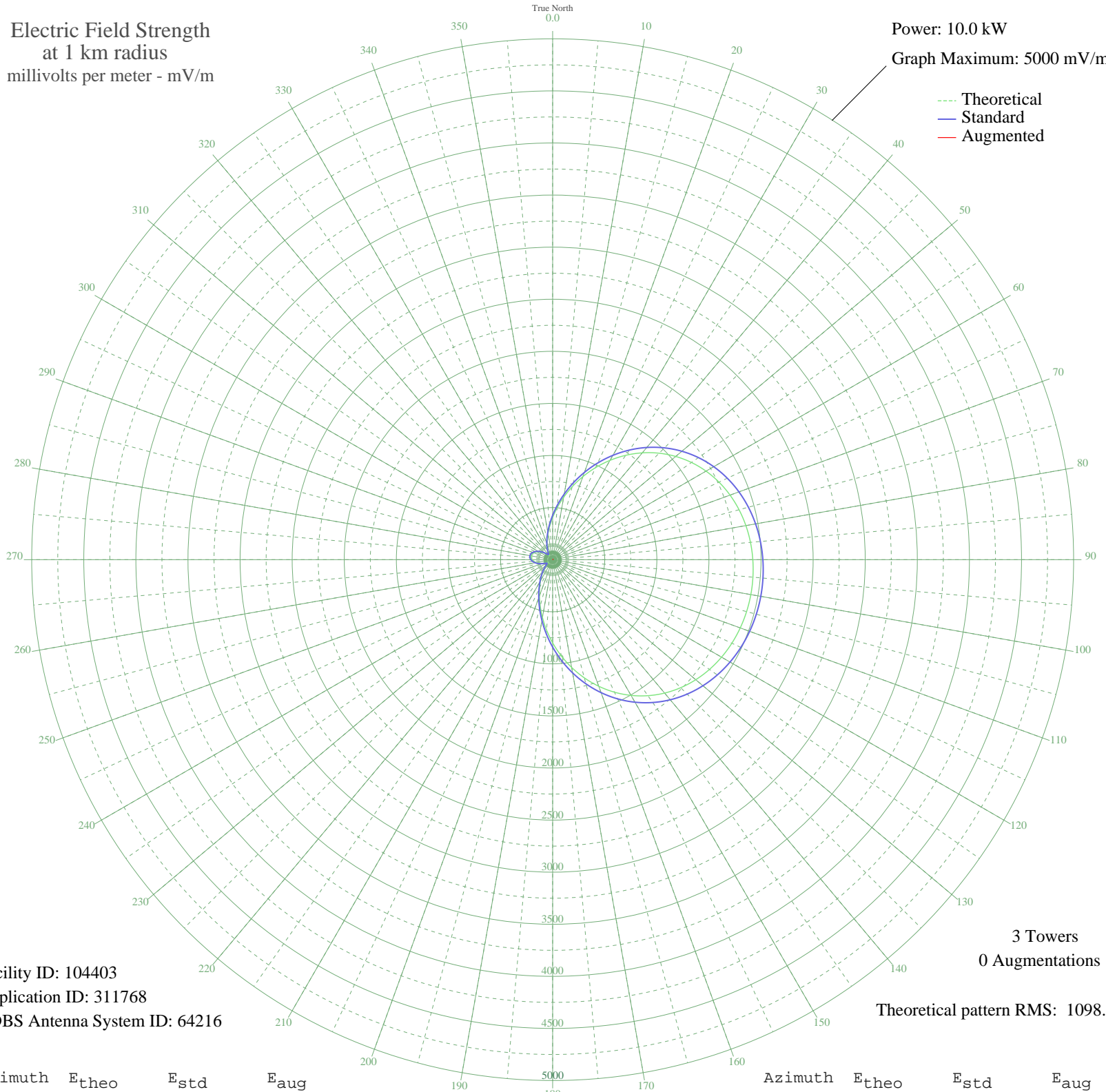


# ZYK-691 SAO PAULO, - Brazil -- 1410 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 104403  
Application ID: 311768  
CDBS Antenna System ID: 64216

3 Towers  
0 Augmentations

Theoretical pattern RMS: 1098.60

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	404.63	426.23	
5	500.35	526.47	
10	607.99	639.30	
15	725.07	762.09	
20	848.52	891.60	
25	974.90	1024.22	
30	1100.78	1156.32	
35	1222.91	1284.51	
40	1338.48	1405.82	
45	1445.24	1517.88	
50	1541.57	1619.01	
55	1626.51	1708.17	
60	1699.69	1785.00	
65	1761.27	1849.65	
70	1811.82	1902.72	
75	1852.14	1945.05	
80	1883.19	1977.64	
85	1905.91	2001.49	
90	1921.13	2017.48	
95	1929.51	2026.27	
100	1931.42	2028.27	
105	1926.95	2023.58	
110	1915.89	2011.98	
115	1897.76	1992.94	
120	1871.82	1965.71	
125	1837.18	1929.34	
130	1792.88	1882.83	
135	1738.00	1825.22	
140	1671.83	1755.75	
145	1593.94	1673.98	
150	1504.37	1579.95	
155	1403.71	1474.29	
160	1293.20	1358.29	
165	1174.70	1233.90	
170	1050.70	1103.77	
175	924.22	971.03	

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.

27 Jun 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	798.60	839.22	
185	677.29	711.98	
190	563.64	592.81	
195	460.52	484.75	
200	370.06	390.06	
205	293.32	309.87	
210	230.05	243.95	
215	178.61	190.62	
220	136.36	147.19	
225	100.62	111.03	
230	70.40	81.42	
235	50.09	62.71	
240	51.85	64.26	
245	73.91	84.79	
250	102.90	113.31	
255	132.17	142.91	
260	158.71	170.11	
265	180.69	192.77	
270	196.81	209.45	
275	206.21	219.20	
280	208.41	221.48	
285	203.30	216.18	
290	191.13	203.57	
295	172.54	184.35	
300	148.55	159.67	
305	120.65	131.21	
310	91.03	101.49	
315	63.64	75.04	
320	47.97	60.84	
325	56.33	68.29	
330	81.73	92.36	
335	114.26	124.74	
340	152.34	163.56	
345	197.92	210.60	
350	253.82	268.69	
355	322.35	340.19	