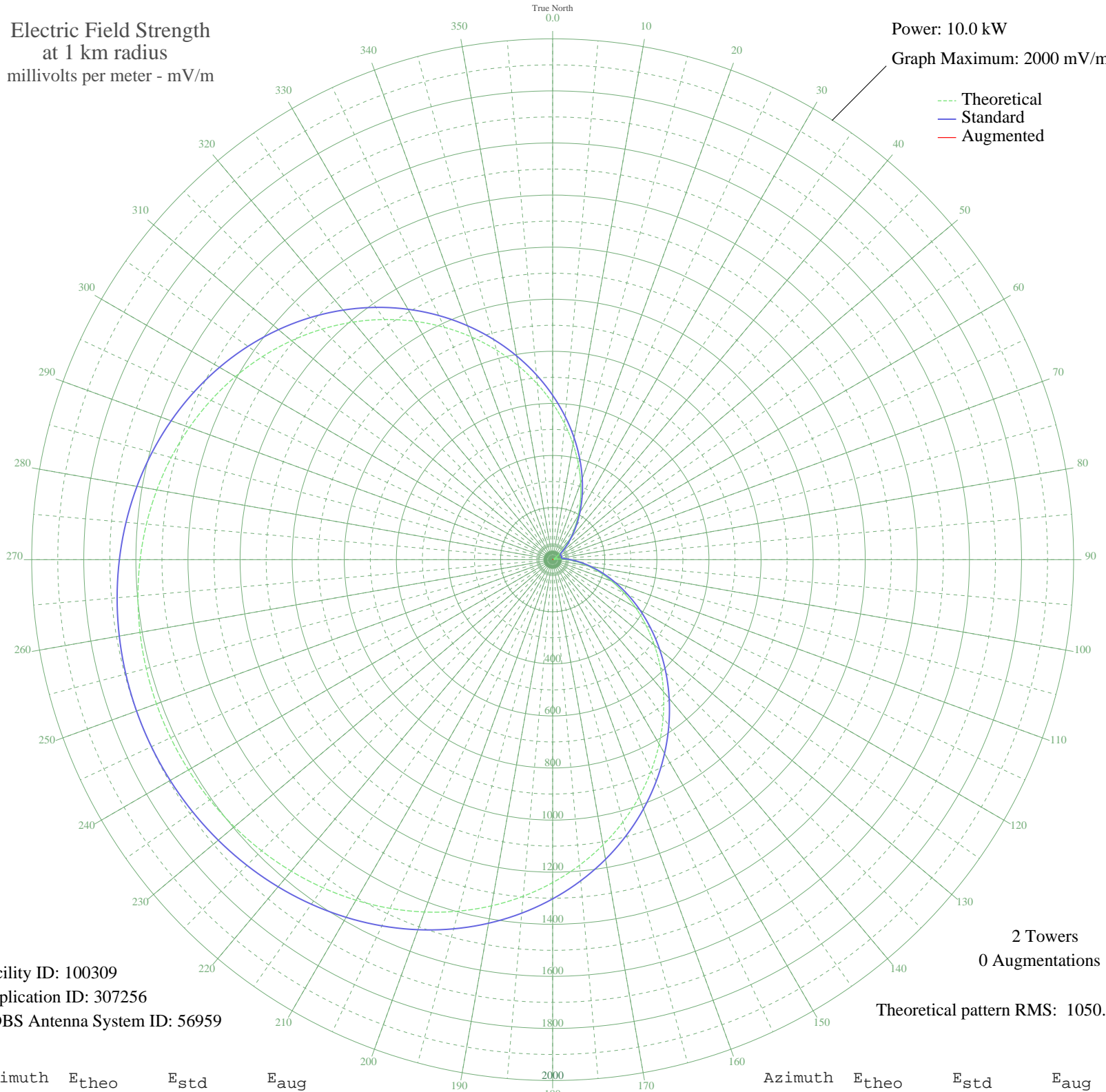


# ZYJ-454 RIO DE JANEI, - Brazil -- 900 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 100309  
Application ID: 307256  
CDBS Antenna System ID: 56959

2 Towers  
0 Augmentations

Theoretical pattern RMS: 1050.10

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	600.22	631.14	
5	524.45	551.71	
10	451.04	474.80	
15	380.80	401.27	
20	314.49	331.95	
25	252.82	267.61	
30	196.40	208.99	
35	145.80	156.79	
40	101.47	111.80	
45	63.83	75.09	
50	33.18	48.60	
55	9.79	35.40	
60	6.16	34.49	
65	14.55	37.16	
70	15.32	37.50	
75	8.45	35.02	
80	6.00	34.46	
85	27.92	44.80	
90	57.13	68.89	
95	93.40	103.75	
100	136.42	147.19	
105	185.80	198.01	
110	241.10	255.41	
115	301.77	318.66	
120	367.20	387.05	
125	436.71	459.80	
130	509.55	536.10	
135	584.92	615.10	
140	661.97	695.89	
145	739.84	777.57	
150	817.67	859.23	
155	894.61	939.95	
160	969.85	1018.91	
165	1042.64	1095.30	
170	1112.31	1168.42	
175	1178.28	1237.66	

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

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1240.07	1302.51	
185	1297.31	1362.60	
190	1349.76	1417.65	
195	1397.25	1467.50	
200	1439.74	1512.11	
205	1477.26	1551.50	
210	1509.93	1585.78	
215	1537.89	1615.14	
220	1561.36	1639.78	
225	1580.54	1659.91	
230	1595.65	1675.77	
235	1606.87	1687.56	
240	1614.37	1695.43	
245	1618.27	1699.52	
250	1618.62	1699.89	
255	1615.44	1696.55	
260	1608.67	1689.44	
265	1598.20	1678.45	
270	1583.88	1663.42	
275	1565.53	1644.16	
280	1542.94	1620.44	
285	1515.89	1592.04	
290	1484.18	1558.76	
295	1447.64	1520.40	
300	1406.15	1476.84	
305	1359.66	1428.04	
310	1308.19	1374.02	
315	1251.89	1314.92	
320	1190.98	1250.99	
325	1125.82	1182.59	
330	1056.84	1110.20	
335	984.63	1034.41	
340	909.82	955.91	
345	833.16	875.47	
350	755.44	793.93	
355	677.51	712.19	