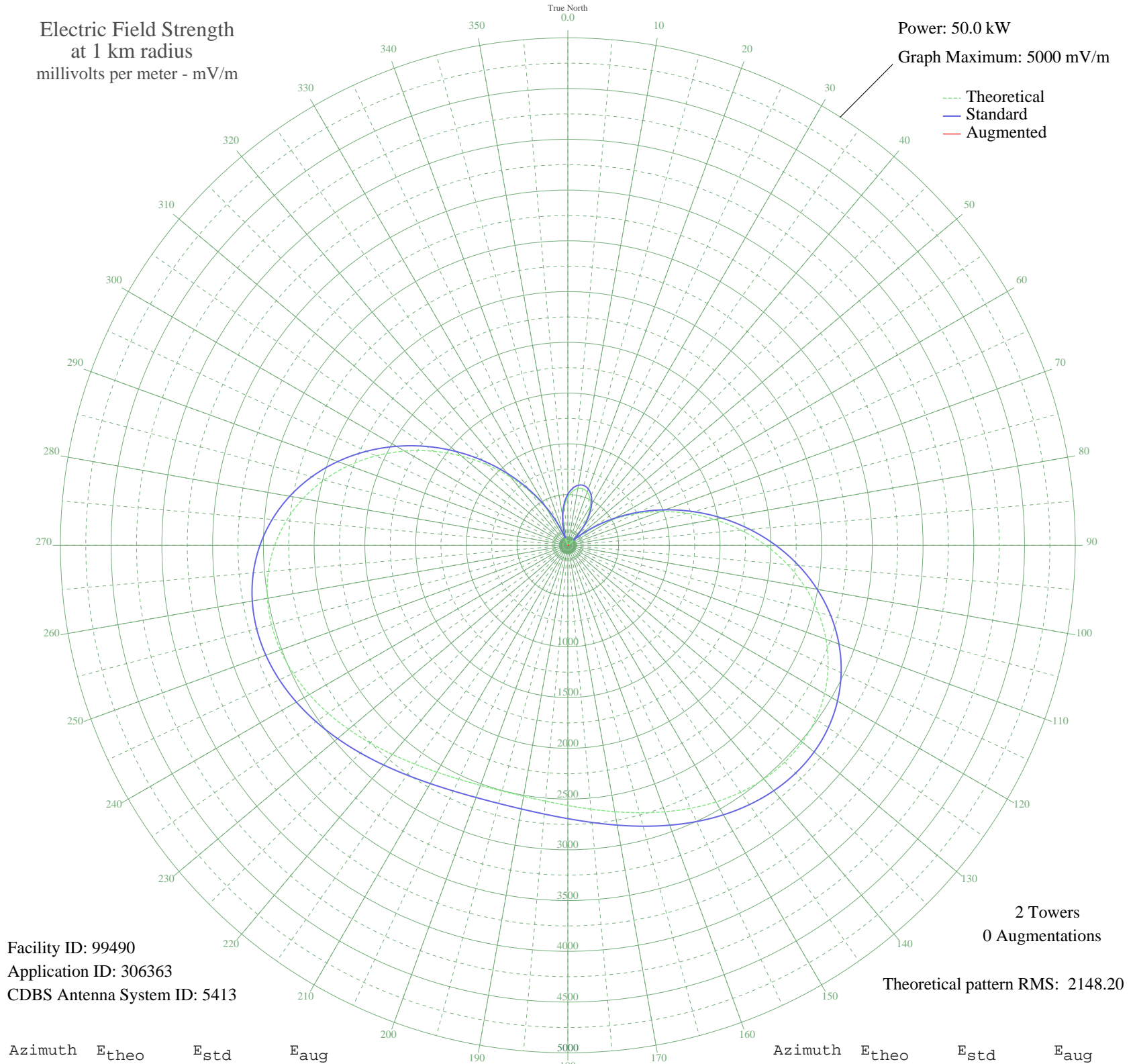


# ZYK-275 PORTO ALEGRE, - Brazil -- 680 kHz

Nighttime

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

Power: 50.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 99490  
Application ID: 306363  
CDBS Antenna System ID: 5413

2 Towers  
0 Augmentations  
Theoretical pattern RMS: 2148.20

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	472.64	501.79	
5	533.71	565.30	
10	568.29	601.31	
15	576.28	609.63	
20	557.65	590.22	
25	512.45	543.17	
30	440.83	468.79	
35	343.09	367.81	
40	219.75	242.38	
45	71.69	105.73	
50	99.77	128.40	
55	292.74	316.21	
60	504.69	535.10	
65	732.39	772.59	
70	971.93	1023.22	
75	1218.72	1281.81	
80	1467.66	1542.83	
85	1713.28	1800.48	
90	1950.01	2048.85	
95	2172.37	2282.20	
100	2375.35	2495.22	
105	2554.59	2683.35	
110	2706.68	2842.98	
115	2829.31	2971.70	
120	2921.41	3068.38	
125	2983.16	3133.20	
130	3015.94	3167.61	
135	3022.24	3174.22	
140	3005.44	3156.58	
145	2969.59	3118.96	
150	2919.22	3066.08	
155	2859.02	3002.88	
160	2793.68	2934.30	
165	2727.66	2865.00	
170	2665.05	2799.29	
175	2609.43	2740.90	

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	2563.77	2692.99	
185	2530.42	2657.98	
190	2511.00	2637.60	
195	2506.47	2632.84	
200	2517.02	2643.91	
205	2542.16	2670.30	
210	2580.67	2710.73	
215	2630.63	2763.16	
220	2689.45	2824.89	
225	2753.88	2892.52	
230	2820.14	2962.07	
235	2883.97	3029.08	
240	2940.81	3088.74	
245	2985.93	3136.11	
250	3014.68	3166.29	
255	3022.70	3174.71	
260	3006.17	3157.35	
265	2962.04	3111.03	
270	2888.25	3033.57	
275	2783.89	2924.03	
280	2649.27	2782.73	
285	2485.98	2611.34	
290	2296.78	2412.76	
295	2085.48	2191.02	
300	1856.74	1950.99	
305	1615.79	1698.20	
310	1368.17	1438.49	
315	1119.45	1177.76	
320	874.97	921.72	
325	639.65	675.73	
330	417.82	444.95	
335	213.11	235.77	
340	28.49	80.04	
345	133.80	158.91	
350	272.11	295.20	
355	385.29	411.31	