

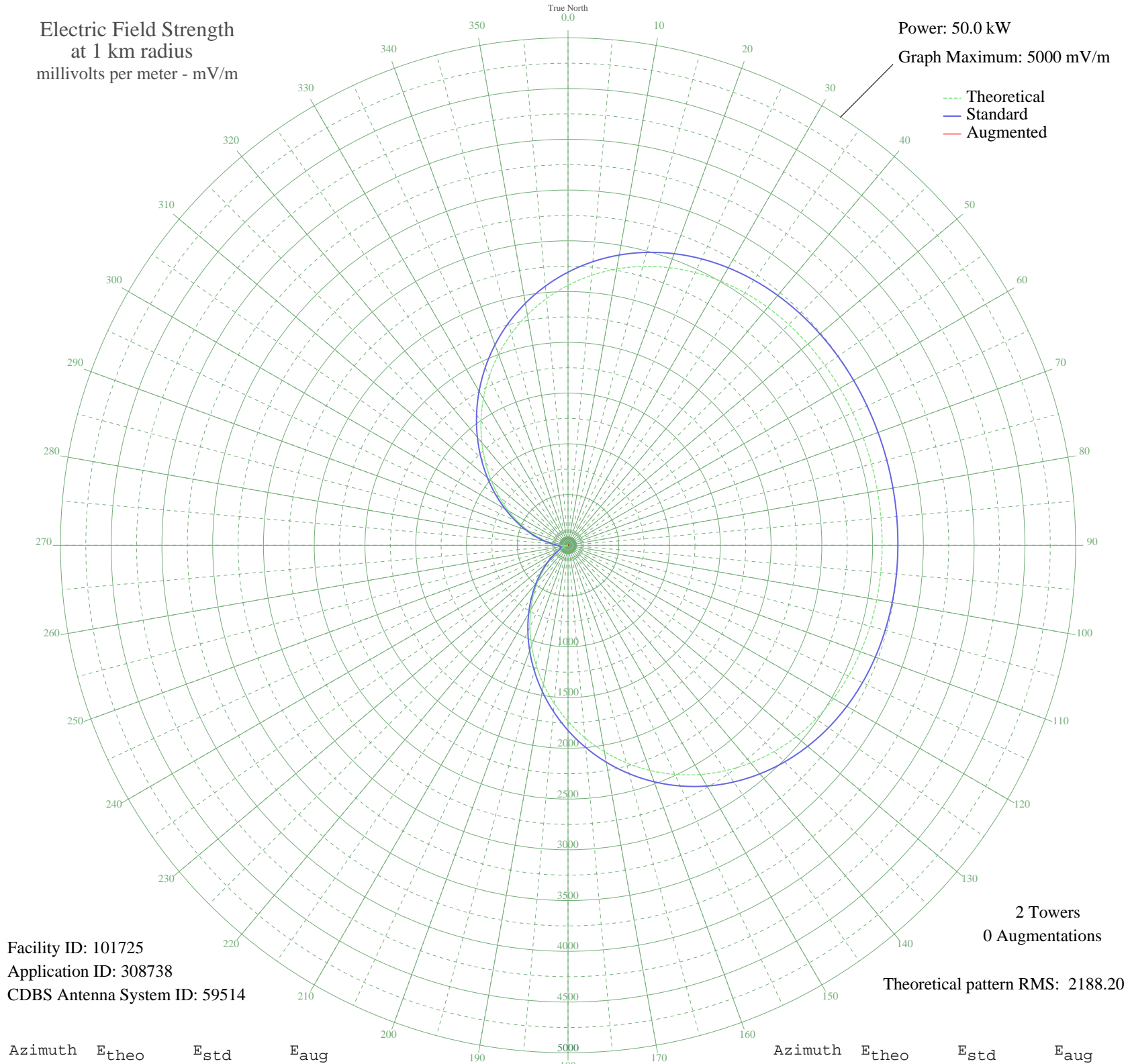
# ZYK-274 PORTO ALEGRE, - Brazil -- 1120 kHz

Nighttime

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

Power: 50.0 kW  
Graph Maximum: 5000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 101725  
Application ID: 308738  
CDBS Antenna System ID: 59514

2 Towers  
0 Augmentations

Theoretical pattern RMS: 2188.20

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	2562.08	2691.21	
5	2670.49	2804.99	
10	2764.67	2903.86	
15	2844.68	2987.83	
20	2910.95	3057.40	
25	2964.35	3113.45	
30	3006.01	3157.18	
35	3037.32	3190.05	
40	3059.82	3213.67	
45	3075.12	3229.73	
50	3084.80	3239.89	
55	3090.36	3245.73	
60	3093.14	3248.64	
65	3094.25	3249.81	
70	3094.54	3250.11	
75	3094.57	3250.14	
80	3094.56	3250.14	
85	3094.42	3249.99	
90	3093.73	3249.26	
95	3091.74	3247.17	
100	3087.44	3242.66	
105	3079.58	3234.41	
110	3066.71	3220.90	
115	3047.29	3200.51	
120	3019.69	3171.54	
125	2982.35	3132.34	
130	2933.80	3081.38	
135	2872.80	3017.35	
140	2798.36	2939.22	
145	2709.88	2846.34	
150	2607.13	2738.50	
155	2490.36	2615.93	
160	2360.26	2479.39	
165	2217.98	2330.06	
170	2065.08	2169.61	
175	1903.52	2000.08	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1735.54	1823.83	
185	1563.60	1643.46	
190	1390.30	1461.70	
195	1218.26	1281.33	
200	1050.09	1105.09	
205	888.25	935.61	
210	735.03	775.34	
215	592.49	626.53	
220	462.44	491.20	
225	346.42	371.24	
230	245.72	268.47	
235	161.36	184.98	
240	94.14	123.62	
245	44.65	87.81	
250	13.31	75.55	
255	0.37	74.25	
260	5.92	74.51	
265	29.92	80.62	
270	72.19	106.10	
275	132.37	157.58	
280	209.96	232.63	
285	304.24	327.97	
290	414.27	441.28	
295	538.88	570.67	
300	676.62	714.32	
305	825.81	870.27	
310	984.46	1036.35	
315	1150.39	1210.19	
320	1321.18	1389.23	
325	1494.29	1570.76	
330	1667.10	1752.02	
335	1836.97	1930.24	
340	2001.38	2102.76	
345	2157.99	2267.11	
350	2304.73	2421.11	
355	2439.87	2562.94	

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