

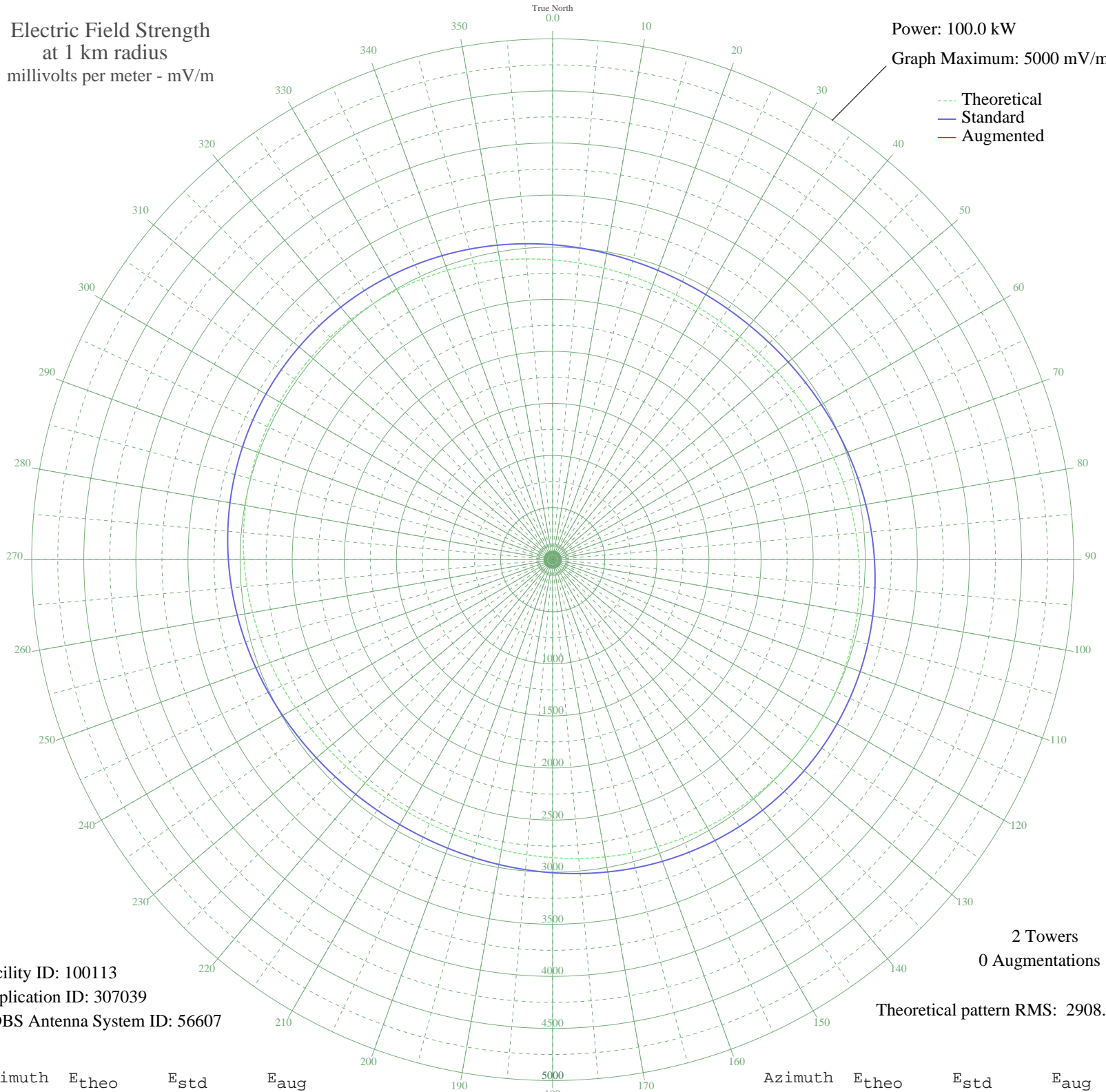
# ZYK687 SAO PAULO, - Brazil -- 840 kHz

Daytime

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

Power: 100.0 kW

Graph Maximum: 5000 mV/m



--- Theoretical  
— Standard  
— Augmented

Facility ID: 100113  
Application ID: 307039  
CDBS Antenna System ID: 56607

2 Towers  
0 Augmentations

Theoretical pattern RMS: 2908.62

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	2877.79	3023.51	
5	2858.79	3003.56	
10	2841.21	2985.11	
15	2825.68	2968.82	
20	2812.77	2955.28	
25	2802.98	2945.00	
30	2796.67	2938.38	
35	2794.08	2935.66	
40	2795.28	2936.93	
45	2800.20	2942.08	
50	2808.59	2950.88	
55	2820.07	2962.93	
60	2834.15	2977.71	
65	2850.27	2994.62	
70	2867.80	3013.02	
75	2886.11	3032.23	
80	2904.56	3051.60	
85	2922.58	3070.51	
90	2939.63	3088.40	
95	2955.24	3104.77	
100	2968.99	3119.21	
105	2980.56	3131.35	
110	2989.69	3140.93	
115	2996.17	3147.73	
120	2999.88	3151.63	
125	3000.74	3152.53	
130	2998.74	3150.43	
135	2993.91	3145.35	
140	2986.34	3137.42	
145	2976.21	3126.79	
150	2963.73	3113.69	
155	2949.20	3098.44	
160	2932.96	3081.40	
165	2915.46	3063.04	
170	2897.20	3043.87	
175	2878.73	3024.49	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	2860.66	3005.53	
185	2843.62	2987.64	
190	2828.24	2971.51	
195	2815.13	2957.75	
200	2804.84	2946.95	
205	2797.80	2939.57	
210	2794.35	2935.95	
215	2794.66	2936.27	
220	2798.76	2940.57	
225	2806.50	2948.69	
230	2817.59	2960.33	
235	2831.61	2975.04	
240	2848.03	2992.27	
245	2866.25	3011.40	
250	2885.65	3031.76	
255	2905.59	3052.67	
260	2925.44	3073.51	
265	2944.63	3093.64	
270	2962.64	3112.54	
275	2979.01	3129.73	
280	2993.38	3144.80	
285	3005.41	3157.43	
290	3014.88	3167.36	
295	3021.58	3174.40	
300	3025.42	3178.42	
305	3026.31	3179.36	
310	3024.24	3177.18	
315	3019.24	3171.94	
320	3011.41	3163.72	
325	3000.89	3152.69	
330	2987.90	3139.05	
335	2972.69	3123.09	
340	2955.61	3105.16	
345	2937.07	3085.71	
350	2917.55	3065.22	
355	2897.59	3044.28	

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.

15 Mar 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission