

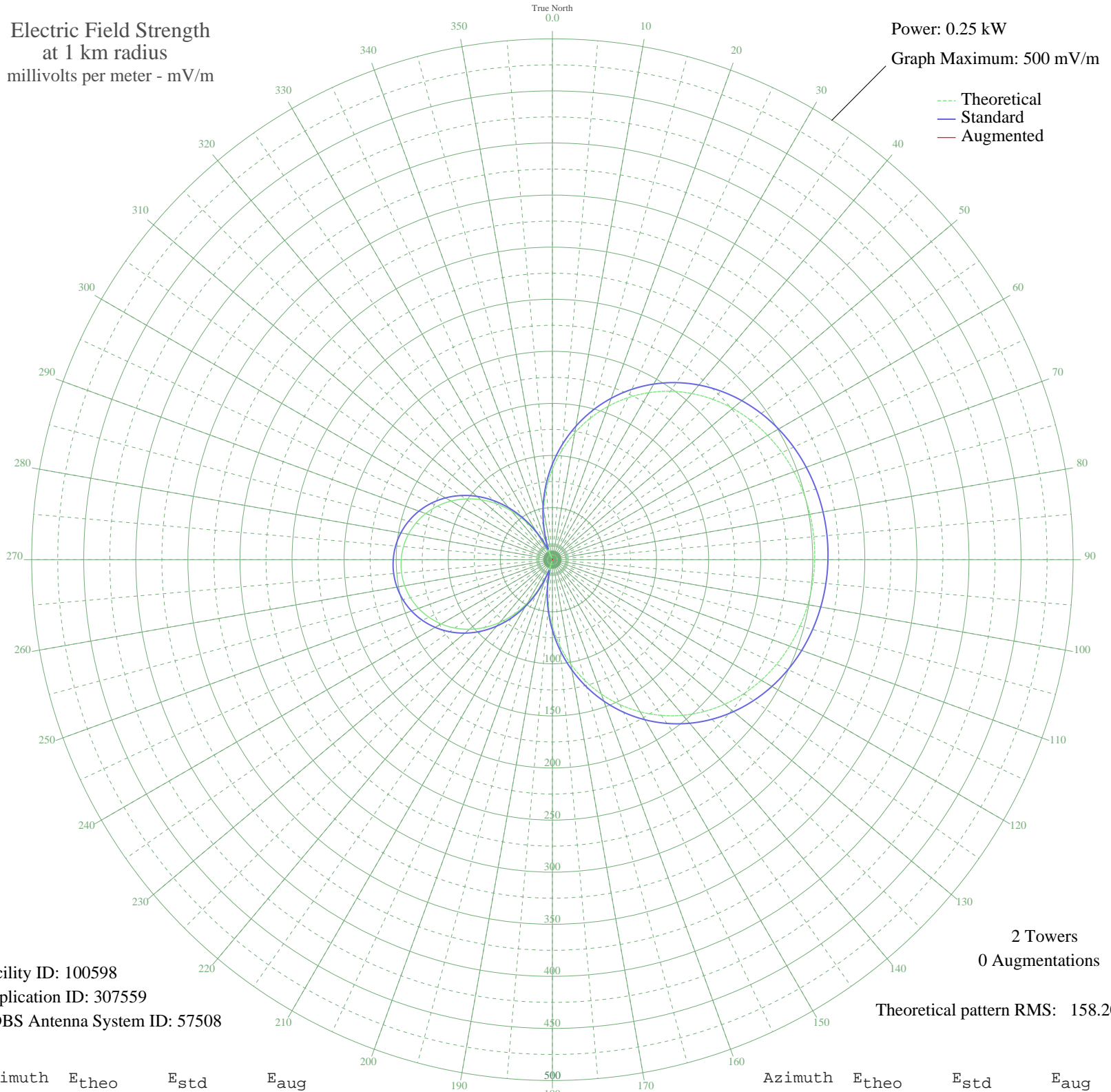
**- PONTA GROSSA, - Brazil -- 970 kHz**

**Nighttime**

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

Power: 0.25 kW  
Graph Maximum: 500 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 100598  
Application ID: 307559  
CDBS Antenna System ID: 57508

2 Towers  
0 Augmentations  
Theoretical pattern RMS: 158.20

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	86.79	91.73	
5	105.51	111.28	
10	123.52	130.12	
15	140.63	148.04	
20	156.68	164.85	
25	171.53	180.41	
30	185.10	194.64	
35	197.33	207.46	
40	208.19	218.85	
45	217.71	228.84	
50	225.91	237.44	
55	232.86	244.72	
60	238.61	250.76	
65	243.24	255.62	
70	246.83	259.38	
75	249.43	262.12	
80	251.11	263.88	
85	251.90	264.70	
90	251.81	264.61	
95	250.85	263.60	
100	248.99	261.65	
105	246.19	258.71	
110	242.40	254.74	
115	237.55	249.65	
120	231.56	243.37	
125	224.37	235.83	
130	215.91	226.95	
135	206.13	216.69	
140	194.99	205.01	
145	182.49	191.90	
150	168.66	177.41	
155	153.56	161.58	
160	137.29	144.54	
165	119.99	126.42	
170	101.82	107.42	
175	82.98	87.76	

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	63.69	67.69	
185	44.20	47.58	
190	24.74	28.02	
195	5.56	12.01	
200	13.11	17.31	
205	31.05	34.25	
210	48.06	51.55	
215	63.99	68.00	
220	78.68	83.28	
225	92.04	97.21	
230	103.97	109.68	
235	114.44	120.62	
240	123.40	129.99	
245	130.83	137.78	
250	136.74	143.96	
255	141.13	148.56	
260	144.00	151.56	
265	145.35	152.98	
270	145.20	152.82	
275	143.54	151.09	
280	140.37	147.76	
285	135.68	142.85	
290	129.47	136.35	
295	121.73	128.24	
300	112.47	118.56	
305	101.70	107.30	
310	89.48	94.54	
315	75.85	80.33	
320	60.90	64.80	
325	44.74	48.14	
330	27.53	30.75	
335	9.43	14.43	
340	9.36	14.38	
345	28.61	31.83	
350	48.10	51.58	
355	67.57	71.72	