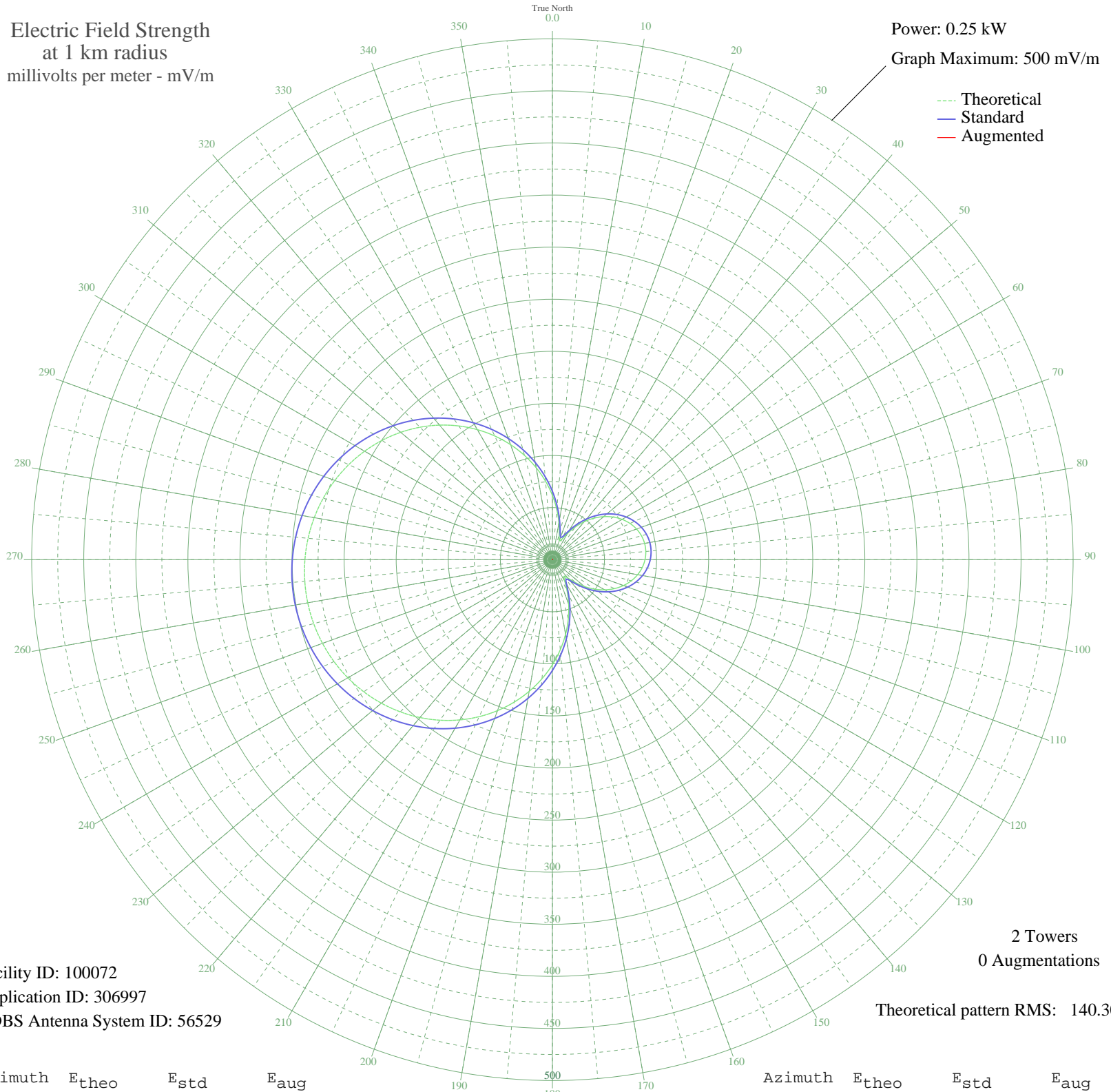


# ZYJ266 LONDRINA, - Brazil -- 830 kHz

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: 100072  
Application ID: 306997  
CDBS Antenna System ID: 56529

2 Towers  
0 Augmentations

Theoretical pattern RMS: 140.30

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	61.70	65.63	
5	48.28	51.77	
10	35.80	39.03	
15	25.34	28.60	
20	19.60	23.10	
25	21.64	25.03	
30	29.08	32.29	
35	38.23	41.49	
40	47.49	50.96	
45	56.26	60.00	
50	64.25	68.27	
55	71.30	75.60	
60	77.32	81.86	
65	82.24	86.98	
70	85.99	90.90	
75	88.56	93.57	
80	89.91	94.98	
85	90.03	95.11	
90	88.92	93.96	
95	86.60	91.54	
100	83.08	87.86	
105	78.40	82.98	
110	72.59	76.94	
115	65.74	69.82	
120	57.92	61.72	
125	49.30	52.82	
130	40.10	43.40	
135	30.85	34.05	
140	22.84	26.18	
145	19.36	22.88	
150	23.69	27.00	
155	33.49	36.70	
160	45.69	49.11	
165	58.97	62.80	
170	72.77	77.13	
175	86.79	91.74	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	100.84	106.40	
185	114.73	120.93	
190	128.35	135.17	
195	141.55	148.99	
200	154.22	162.28	
205	166.28	174.91	
210	177.62	186.79	
215	188.16	197.84	
220	197.84	207.99	
225	206.59	217.17	
230	214.36	225.32	
235	221.11	232.40	
240	226.80	238.37	
245	231.41	243.21	
250	234.92	246.88	
255	237.30	249.38	
260	238.55	250.70	
265	238.66	250.81	
270	237.64	249.74	
275	235.48	247.48	
280	232.20	244.04	
285	227.81	239.43	
290	222.33	233.68	
295	215.79	226.82	
300	208.22	218.88	
305	199.66	209.91	
310	190.16	199.95	
315	179.79	189.07	
320	168.60	177.35	
325	156.69	164.86	
330	144.13	151.70	
335	131.02	137.97	
340	117.48	123.80	
345	103.63	109.32	
350	89.61	94.67	
355	75.56	80.03	

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