

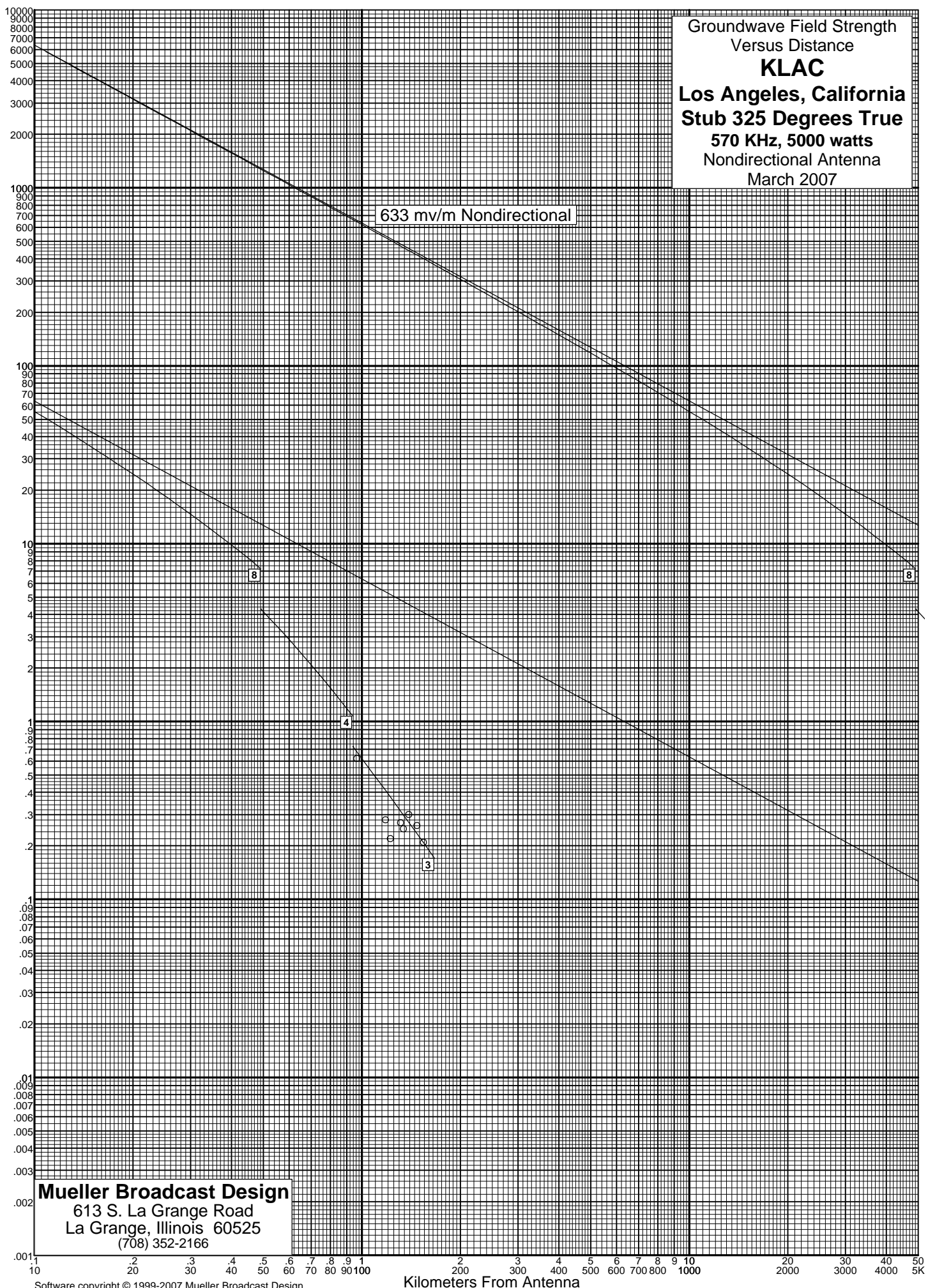
Mueller Broadcast Design

613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

Mueller Broadcast Design

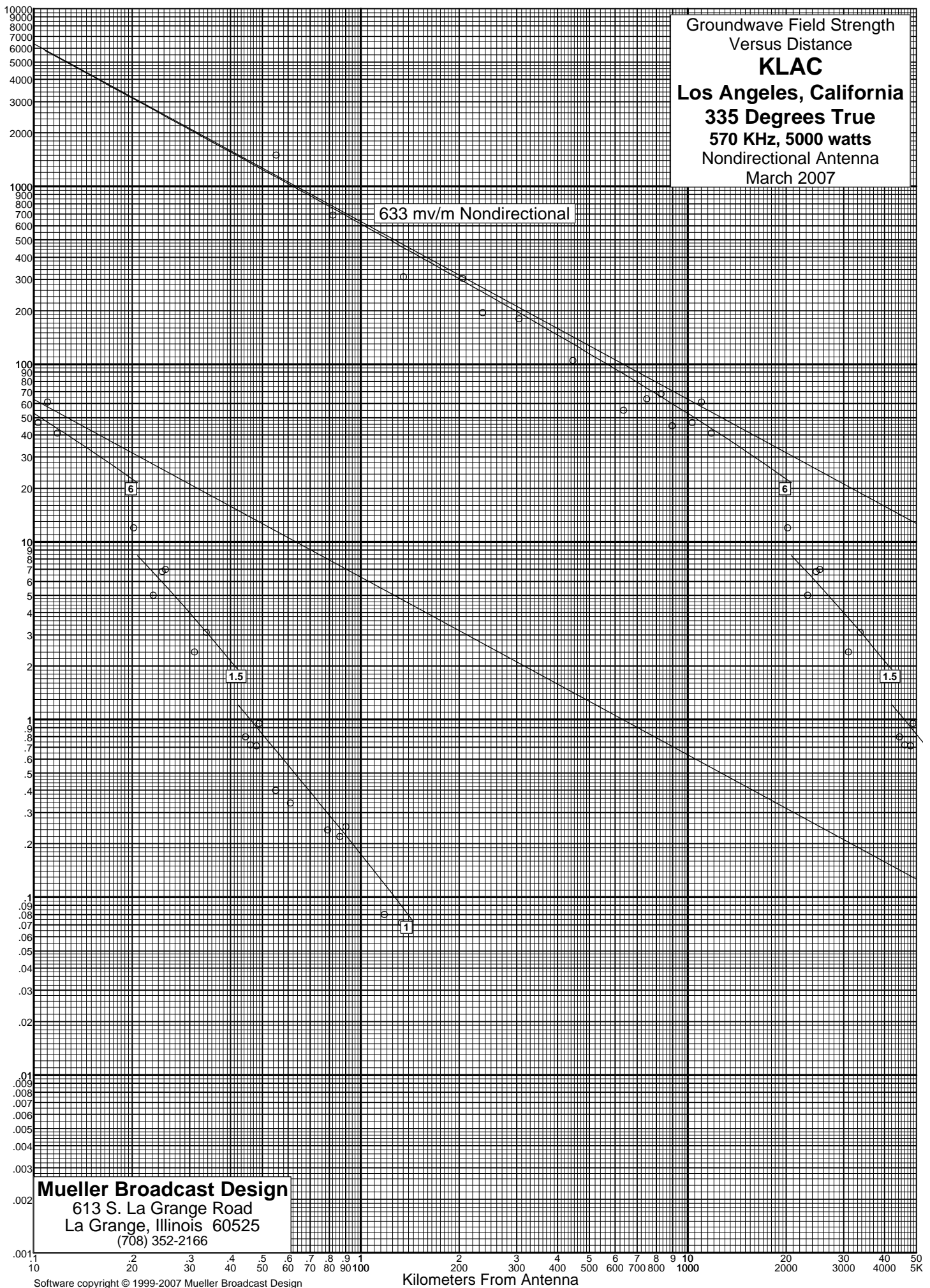
613 S. La Grange Road
La Grange, Illinois 60525
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Groundwave Field Strength
Versus Distance
KLAC
Los Angeles, California
Stub 325 Degrees True
570 KHz, 5000 watts
Nondirectional Antenna
March 2007

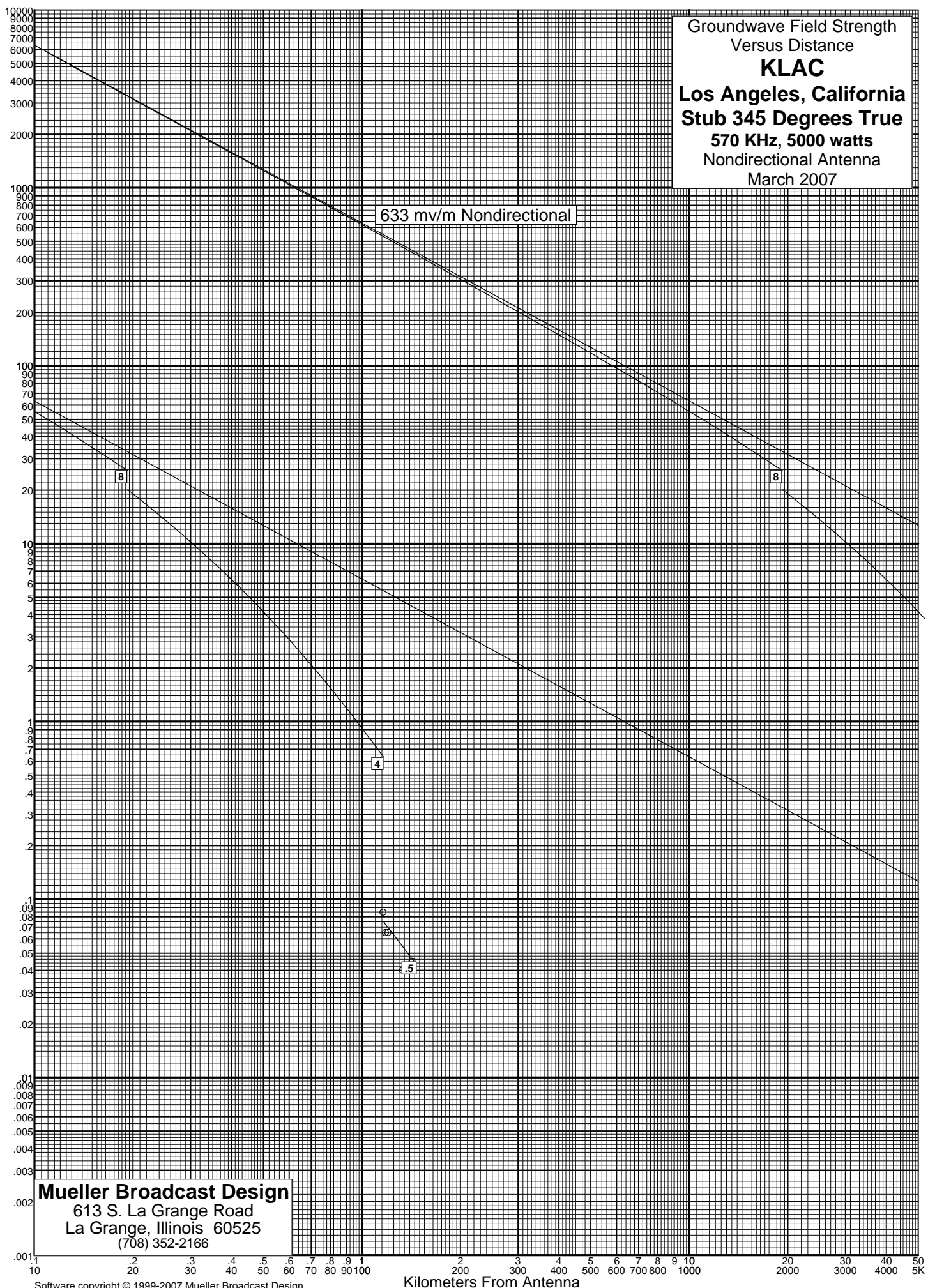


Mueller Broadcast Design
613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

Groundwave Field Strength
Versus Distance
KLAC
Los Angeles, California
335 Degrees True
570 KHz, 5000 watts
Nondirectional Antenna
March 2007



Groundwave Field Strength
Versus Distance
KLAC
Los Angeles, California
Stub 345 Degrees True
570 KHz, 5000 watts
Nondirectional Antenna
March 2007

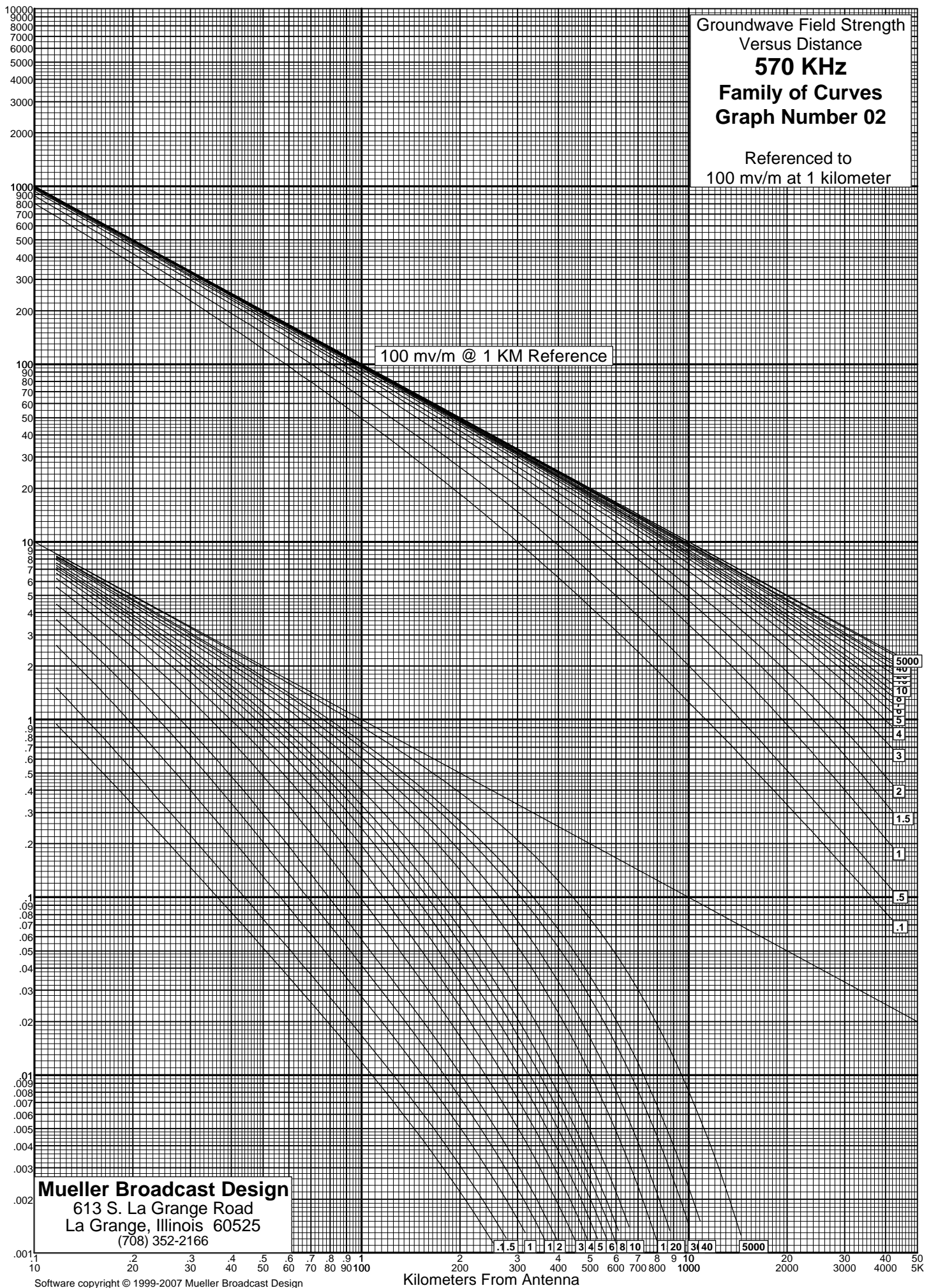


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613 S. La Grange Road
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Groundwave Field Strength
Versus Distance
570 KHz
Family of Curves
Graph Number 02

Referenced to
100 mv/m at 1 kilometer

100 mv/m @ 1 KM Reference



Mueller Broadcast Design
613 S. La Grange Road
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KLAC 570 KHz GROUND CONDUCTIVITY

Latitude: 34-04-11.2 N

Longitude: 118-11-36.0 W

Radius : 300 KM

*** Includes measured conductivity data**

Measured Radials:

325 deg stub: 4 mS/m from 96.4 km to 133 km, 3 mS/m from 133 km to 154 km

335 deg: 6 mS/m to 20 km, 1.5 mS/m to 40 km, 1.0 mS/m to 133 km

345 deg stub: 0.5 mS/m from 111 km to 142 km

0 deg:	16.33,	8.0	61.73,	4.0	123.81,	8.0	224.79,	4.0
	299.84,	2.0	(format is end distance, conductivity)					
5 deg:	16.42,	8.0	59.21,	4.0	131.73,	8.0	300.09,	4.0
10 deg:	16.65,	8.0	57.98,	4.0	143.65,	8.0	299.93,	4.0
15 deg:	15.02,	8.0	58.06,	4.0	157.11,	8.0	300.15,	4.0
20 deg:	15.24,	8.0	56.77,	4.0	172.38,	8.0	300.07,	4.0
25 deg:	14.94,	8.0	56.80,	4.0	192.32,	8.0	300.11,	4.0
30 deg:	15.65,	8.0	57.27,	4.0	215.38,	8.0	299.70,	4.0
35 deg:	16.47,	8.0	58.15,	4.0	242.79,	8.0	243.98,	4.0
	245.17,	8.0	275.23,	4.0	300.08,	8.0		
40 deg:	16.18,	8.0	61.13,	4.0	299.66,	8.0		
45 deg:	17.71,	8.0	65.10,	4.0	300.42,	8.0		
50 deg:	17.63,	8.0	68.37,	4.0	300.06,	8.0		
55 deg:	19.51,	8.0	73.93,	4.0	300.27,	8.0		
60 deg:	21.46,	8.0	80.70,	4.0	300.02,	8.0		
65 deg:	21.29,	8.0	91.40,	4.0	300.15,	8.0		
70 deg:	24.51,	8.0	103.49,	4.0	299.80,	8.0		
75 deg:	29.64,	8.0	121.45,	4.0	299.63,	8.0		
80 deg:	34.46,	8.0	150.88,	4.0	300.23,	8.0		
85 deg:	44.79,	8.0	154.83,	4.0	167.06,	2.0	299.85,	8.0
90 deg:	60.79,	8.0	147.52,	4.0	186.68,	2.0	300.34,	8.0
95 deg:	70.26,	8.0	70.35,	4.0	71.88,	8.0	140.56,	4.0
	213.98,	2.0	232.64,	8.0	300.01,	15.0		
100 deg:	82.04,	8.0	142.30,	4.0	203.55,	2.0	300.40,	15.0
105 deg:	91.84,	8.0	164.58,	4.0	191.83,	2.0	299.81,	15.0
110 deg:	103.34,	8.0	190.99,	4.0	299.99,	15.0		
115 deg:	118.37,	8.0	213.79,	4.0	299.94,	15.0		
120 deg:	132.38,	8.0	244.36,	4.0	299.86,	15.0		
125 deg:	153.13,	8.0	153.67,	4.0	154.30,	8.0	274.86,	4.0
	300.00,	20.0						
130 deg:	44.71,	8.0	45.30,	15.0	53.59,	8.0	54.18,	15.0
	55.97,	8.0	56.55,	15.0	58.93,	8.0	61.29,	15.0
	61.89,	8.0	63.66,	15.0	66.04,	8.0	66.63,	15.0
	177.70,	8.0	251.03,	4.0	300.04,	20.0		
135 deg:	14.62,	8.0	15.16,	15.0	17.02,	8.0	20.50,	15.0
	21.16,	8.0	112.83,	15.0	113.49,	8.0	114.03,	15.0
	207.34,	8.0	234.34,	4.0	299.86,	20.0		
140 deg:	8.79,	8.0	9.29,	15.0	12.40,	8.0	162.01,	15.0
	162.72,	8.0	163.22,	15.0	220.34,	8.0	300.13,	5.0
145 deg:	7.13,	8.0	82.72,	15.0	150.49,	5000.0	210.71,	15.0
	299.45,	5.0						
150 deg:	5.55,	8.0	5.93,	15.0	6.73,	8.0	61.12,	15.0
	61.50,	5000.0	62.31,	15.0	208.36,	5000.0	209.17,	5.0
	209.55,	5000.0	299.74,	5.0				
155 deg:	5.55,	8.0	53.47,	15.0	299.88,	5000.0		
160 deg:	5.26,	8.0	45.69,	15.0	299.67,	5000.0		

Bakersfield Lotus Corporation

KWAC (AM), 1490 KHz, Bakersfield, California

FCC Form 301 Section III-A #10a Supporting Exhibit 15

May 2007

Mueller Broadcast Design

613 S. La Grange Road

La Grange, Illinois 60525

(708) 352-2166

165 deg:	4.16, 8.0	37.67, 15.0	37.87, 5000.0	38.76, 15.0
	300.25, 5000.0			
170 deg:	3.13, 8.0	3.26, 15.0	4.16, 8.0	34.15, 15.0
	300.36, 5000.0			
175 deg:	3.13, 8.0	33.85, 15.0	299.80, 5000.0	
180 deg:	3.13, 8.0	33.70, 15.0	299.61, 5000.0	
185 deg:	3.19, 8.0	34.75, 15.0	299.77, 5000.0	
190 deg:	3.19, 8.0	38.93, 15.0	132.99, 5000.0	140.56, 8.0
	300.31, 5000.0			
195 deg:	3.19, 8.0	39.58, 15.0	125.03, 5000.0	130.80, 8.0
	300.17, 5000.0			
200 deg:	3.42, 8.0	38.96, 15.0	299.57, 5000.0	
205 deg:	3.42, 8.0	39.31, 15.0	300.08, 5000.0	
210 deg:	3.42, 8.0	39.91, 15.0	299.59, 5000.0	
215 deg:	3.79, 8.0	31.27, 15.0	35.19, 5000.0	35.63, 15.0
	299.72, 5000.0			
220 deg:	3.07, 8.0	29.55, 15.0	300.43, 5000.0	
225 deg:	3.07, 8.0	29.22, 15.0	300.19, 5000.0	
230 deg:	2.50, 8.0	27.90, 15.0	300.39, 5000.0	
235 deg:	2.50, 8.0	27.98, 15.0	152.25, 5000.0	156.48, 8.0
	300.37, 5000.0			
240 deg:	2.50, 8.0	27.15, 15.0	299.59, 5000.0	
245 deg:	2.50, 8.0	26.28, 15.0	300.36, 5000.0	
250 deg:	2.50, 8.0	26.96, 15.0	299.70, 5000.0	
255 deg:	2.94, 8.0	28.56, 15.0	300.26, 5000.0	
260 deg:	2.94, 8.0	30.96, 15.0	300.09, 5000.0	
265 deg:	2.94, 8.0	33.00, 15.0	171.13, 5000.0	181.26, 8.0
	299.70, 5000.0			
270 deg:	2.94, 8.0	36.69, 15.0	67.39, 8.0	300.04, 5000.0
275 deg:	4.49, 8.0	23.00, 15.0	28.34, 8.0	29.87, 15.0
	88.36, 8.0	300.31, 5000.0		
280 deg:	4.49, 8.0	11.61, 15.0	97.84, 8.0	299.93, 5000.0
285 deg:	6.92, 8.0	7.90, 15.0	109.85, 8.0	110.82, 5000.0
	112.31, 8.0	155.81, 5000.0	157.29, 8.0	159.74, 5000.0
	161.96, 8.0	163.67, 5000.0	173.76, 8.0	174.72, 5000.0
	232.89, 8.0	300.08, 5000.0		
290 deg:	108.14, 8.0	162.98, 4.0	237.11, 8.0	299.51, 5000.0
295 deg:	91.82, 8.0	186.38, 4.0	246.18, 8.0	299.87, 5000.0
300 deg:	79.31, 8.0	214.43, 4.0	281.16, 8.0	299.75, 5000.0
305 deg:	70.11, 8.0	221.82, 4.0	300.02, 8.0	
310 deg:	62.82, 8.0	208.58, 4.0	299.83, 8.0	
315 deg:	50.00, 8.0	96.40, 4.0	154.00, 3.0*	300.21, 8.0
320 deg:	50.00, 8.0	96.40, 4.0	154.00, 3.0*	299.95, 8.0
325 deg:	20.00, 6.0*	40.00, 1.5*	50.00, 8.0*	96.40, 4.0*
	133.00, 1.0*	154.00, 3.0*	167.45, 8.0	224.87, 15.0
	300.34, 8.0			
330 deg:	20.00, 6.0*	40.00, 1.5*	50.00, 8.0*	96.40, 4.0*
	133.00, 1.0*	154.00, 3.0*	174.18, 8.0	249.92, 15.0
	299.54, 8.0			
335 deg:	20.00, 6.0	20.00, 8.0*	40.00, 1.5*	50.00, 8.0*
	96.40, 4.0*	111.00, 4.0*	133.00, 1.0*	142.00, 0.5*
	154.00, 3.0*	223.10, 8.0	281.72, 15.0	299.98, 8.0
340 deg:	20.00, 6.0*	20.00, 8.0*	40.00, 1.5*	111.00, 4.0*
	133.00, 1.0*	142.00, 0.5*	245.70, 8.0	299.96, 15.0
345 deg:	20.00, 6.0*	20.00, 8.0*	40.00, 1.5*	111.00, 4.0*
	133.00, 1.0*	142.00, 0.5*	166.77, 4.0	168.55, 8.0
	169.65, 4.0	236.76, 8.0	300.27, 2.0	
350 deg:	20.00, 8.0	116.00, 4.0	142.00, 0.5*	219.86, 4.0
	299.88, 2.0			
355 deg:	20.00, 8.0	116.00, 4.0	142.00, 0.5*	221.03, 4.0
	300.07, 2.0			