

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P588356

Luminaire Tested: **GAT-CA6-LED-100-730-U-33-5-X-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-100-730-U-33-5-X-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13754 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U4 - G5

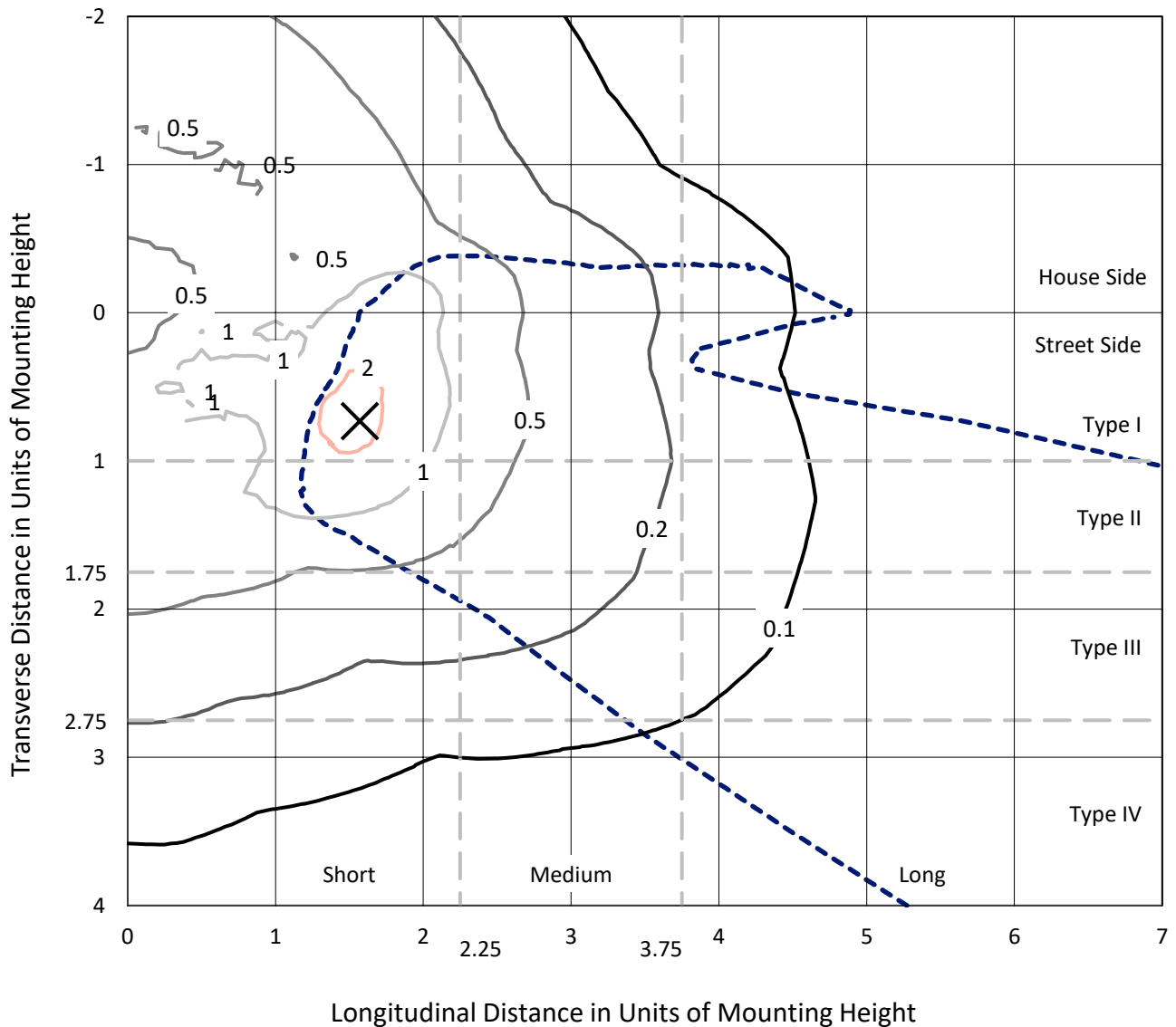
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

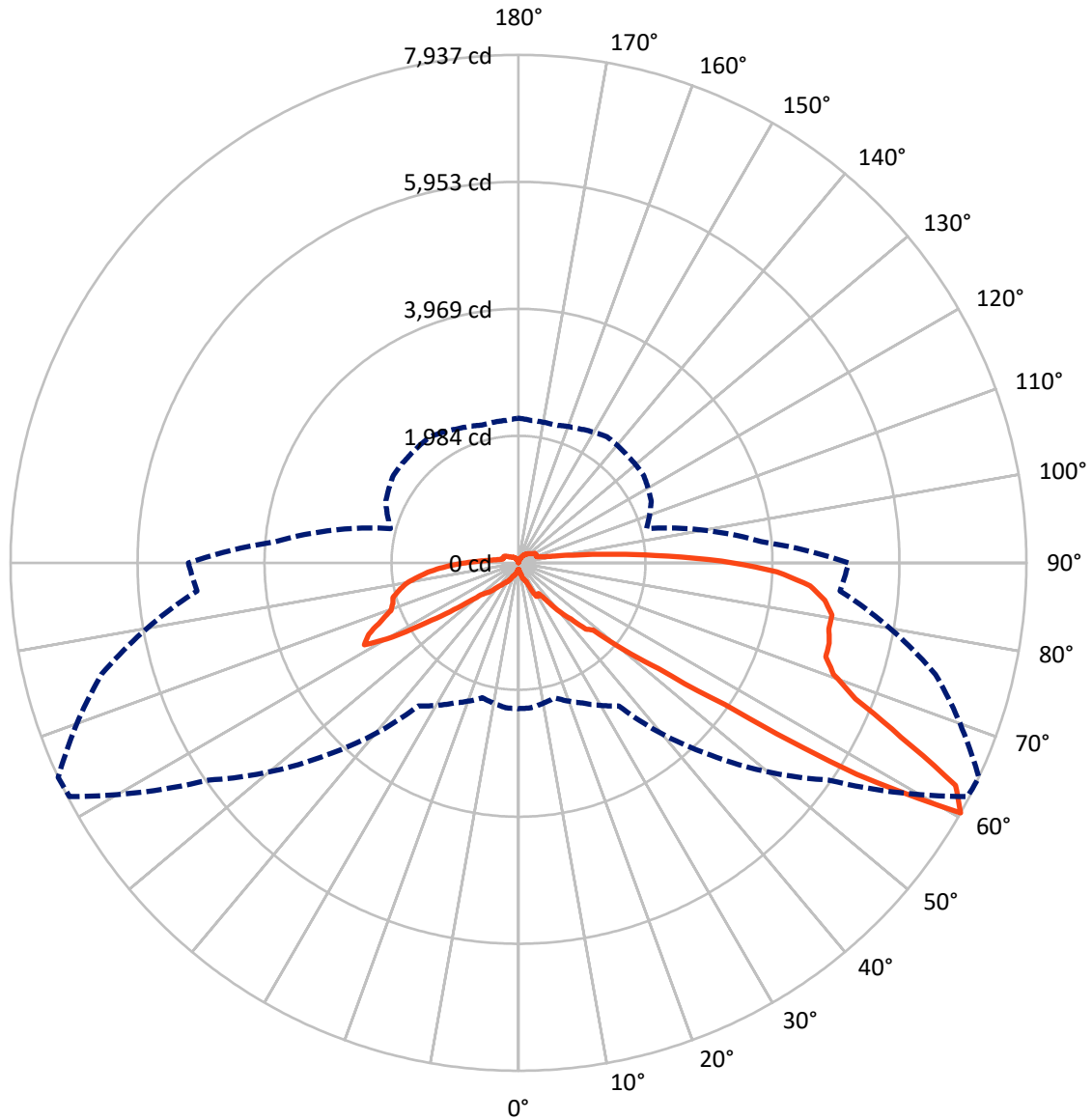
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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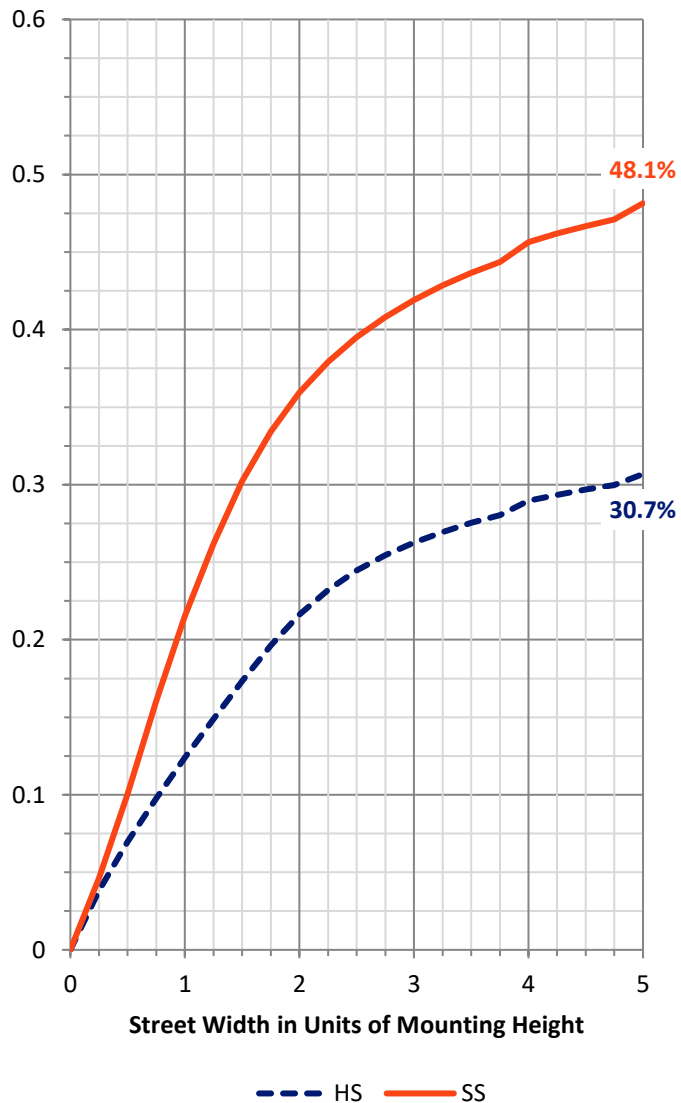
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4586.6	734.5	5321.1
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	7338.0	1094.8	8432.8
	% Fixture	53.4	8.0	61.3
Total	Lumens	11924.7	1829.3	13754.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.1
10°-20°	58.7	0.4
20°-30°	168.0	1.2
30°-40°	361.8	2.6
40°-50°	684.5	5.0
50°-60°	1912.3	13.9
60°-70°	3409.2	24.8
70°-80°	2984.8	21.7
80°-90°	2332.1	17.0
90°-100°	881.7	6.4
100°-110°	303.3	2.2
110°-120°	248.0	1.8
120°-130°	166.6	1.2
130°-140°	114.3	0.8
140°-150°	71.9	0.5
150°-160°	33.3	0.2
160°-170°	9.4	0.1
170°-180°	0.8	0.0
0°-90°	11924.7	86.7
0°-180°	13754.0	100.0

Coefficient of Utilization

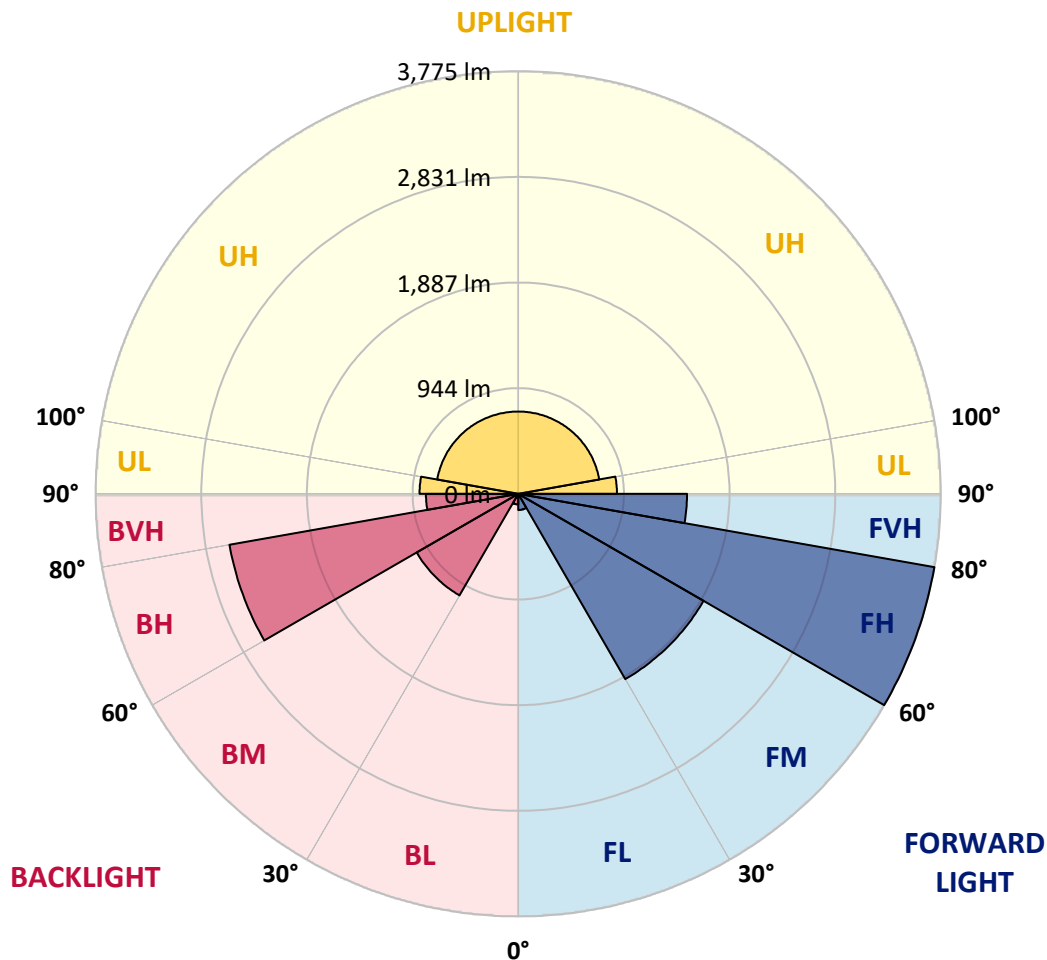


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.9	1.1			
FM (30°-60°)	1911.0	13.9			
FH (60°-80°)	3774.7	27.4			G2/5000
FVH (80°-90°)	1507.4	11.0			G5
BL (0°-30°)	95.0	0.7	B0/110		
BM (30°-60°)	1047.6	7.6	B2/2500		
BH (60°-80°)	2619.3	19.0	B4/5000		G4/5000
BVH (80°-90°)	824.7	6.0			G5
UL (90°-100°)	881.7	6.4		U4/1000	
UH (100°-180°)	734.5	5.3		U4/1000	

BUG Rating: B4-U4-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
2.5°	121.3	117.7	114.1	114.1	112.3	110.6	110.6	107.0	108.8	107.0	107.0
5°	142.7	140.9	137.3	139.1	135.5	133.7	133.7	132.0	130.2	128.4	123.0
7.5°	165.8	165.8	167.6	169.4	164.1	158.7	156.9	153.4	153.4	151.6	148.0
10°	190.8	189.0	181.9	181.9	178.3	174.8	176.5	174.8	174.8	174.8	167.6
12.5°	197.9	196.2	190.8	190.8	190.8	189.0	196.2	194.4	196.2	194.4	183.7
15°	222.9	221.1	219.3	221.1	228.2	242.5	260.3	253.2	255.0	251.4	212.2
17.5°	233.6	238.9	242.5	244.3	251.4	251.4	255.0	253.2	260.3	265.7	242.5
20°	271.0	267.5	271.0	283.5	301.4	303.1	297.8	297.8	301.4	303.1	258.6
22.5°	287.1	285.3	299.6	288.9	288.9	297.8	329.9	319.2	319.2	315.6	278.2
25°	372.7	379.8	394.1	411.9	454.7	467.2	502.9	463.6	469.0	413.7	353.1
27.5°	447.6	452.9	536.7	611.6	645.5	627.7	658.0	584.9	592.0	599.2	515.3
30°	470.8	481.5	602.7	658.0	702.6	666.9	706.1	609.8	604.5	645.5	611.6
32.5°	452.9	463.6	592.0	615.2	661.6	793.5	743.6	588.5	572.4	592.0	633.0
35°	497.5	504.6	581.3	526.0	568.8	1109.1	973.6	686.5	654.4	545.7	606.3
37.5°	597.4	597.4	688.3	727.5	759.6	1308.9	1278.5	854.1	829.2	638.4	700.8
40°	724.0	720.4	832.7	859.5	873.8	1185.8	1546.0	1089.5	1034.2	750.7	913.0
42.5°	800.7	793.5	884.5	913.0	913.0	1003.9	1749.3	1326.7	1198.3	875.5	1116.3
45°	831.0	838.1	955.8	920.1	946.9	1030.7	1966.9	1654.8	1474.7	1027.1	1294.6
47.5°	752.5	763.2	932.6	936.2	800.7	823.8	1763.6	1719.0	1571.0	1100.2	1351.7
50°	923.7	930.8	991.5	950.4	884.5	1043.2	2100.6	2209.4	2145.2	1362.4	1426.5
52.5°	1267.8	1299.9	1357.0	1392.7	1373.1	1752.9	2817.4	2797.8	2744.3	2045.3	1947.2
55°	1642.3	1669.1	1749.3	1965.1	2129.1	2624.8	3504.0	3914.1	3910.5	3322.1	3035.0
57.5°	1982.9	1984.7	1995.4	2261.1	2514.3	3427.3	4589.9	6096.7	6232.2	5306.8	4345.6
60°	2278.9	2273.6	2182.6	2419.8	2728.3	4249.3	5916.6	7910.2	7937.0	6747.6	5041.1
62.5°	2359.2	2343.1	2211.1	2432.3	2696.2	4265.4	6255.4	7694.4	7664.1	6849.2	5132.0
65°	2289.6	2273.6	2105.9	2303.9	2428.7	3876.6	5777.5	6617.4	6567.5	6257.2	4885.9
67.5°	2186.2	2196.9	2031.0	2182.6	2268.2	3635.9	5274.7	5693.7	5679.4	5831.0	4680.9
70°	2036.4	2045.3	1893.7	2081.0	2205.8	3482.6	4793.2	5247.9	5222.9	5445.8	4379.5
72.5°	2041.7	2068.5	1888.4	2029.3	2159.4	3272.1	4575.7	5094.6	5021.4	5055.3	4017.5
75°	2056.0	2091.7	1900.9	2027.5	2148.7	3195.5	4550.7	5107.0	5014.3	4914.5	3880.2
77.5°	2061.4	2113.1	1908.0	2047.1	2152.3	3090.3	4493.6	5044.6	4957.3	4778.9	3717.9
80°	2018.6	2073.8	1877.7	2048.9	2129.1	2881.6	4349.2	5033.9	4968.0	4761.1	3652.0
82.5°	1933.0	1988.3	1818.8	1959.7	2084.5	2669.4	4145.9	4825.3	4821.7	4589.9	3512.9
85°	1745.7	1806.4	1678.0	1808.1	1961.5	2387.7	3735.8	4470.4	4568.5	4381.3	3325.6
87.5°	1565.6	1626.3	1558.5	1631.6	1786.8	2075.6	3209.7	3858.8	4042.5	3887.3	2856.7
90°	1360.6	1423.0	1367.7	1339.2	1464.0	1656.6	2566.0	3001.1	3174.1	3079.6	2102.4
92.5°	1089.5	1143.0	1091.3	1025.3	1100.2	1216.1	1906.2	2100.6	2141.6	2050.7	1378.4
95°	823.8	863.1	816.7	750.7	759.6	832.7	1314.2	1376.6	1365.9	1257.1	875.5
97.5°	572.4	595.6	565.3	518.9	535.0	581.3	870.2	863.1	863.1	768.6	572.4
100°	397.7	406.6	392.3	370.9	383.4	413.7	584.9	583.1	565.3	518.9	417.3
102.5°	315.6	317.4	303.1	288.9	281.7	310.3	422.6	420.8	424.4	403.0	326.3
105°	278.2	276.4	263.9	251.4	237.2	265.7	335.2	349.5	347.7	329.9	280.0
107.5°	255.0	253.2	240.7	230.0	217.5	242.5	290.7	310.3	308.5	306.7	263.9
110°	237.2	235.4	224.7	214.0	203.3	231.8	272.8	303.1	303.1	303.1	267.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	224.7	224.7	215.8	206.8	197.9	230.0	262.1	297.8	297.8	306.7	280.0
115°	217.5	215.8	208.6	203.3	196.2	231.8	258.6	294.2	296.0	308.5	278.2
117.5°	212.2	210.4	205.1	197.9	194.4	228.2	260.3	301.4	299.6	319.2	272.8
120°	203.3	199.7	192.6	185.5	181.9	210.4	253.2	292.4	288.9	297.8	251.4
122.5°	196.2	185.5	173.0	167.6	167.6	190.8	237.2	263.9	260.3	253.2	226.5
125°	180.1	169.4	158.7	156.9	158.7	178.3	226.5	242.5	244.3	238.9	214.0
127.5°	162.3	155.1	149.8	149.8	153.4	174.8	222.9	233.6	233.6	222.9	203.3
130°	153.4	151.6	148.0	148.0	155.1	176.5	217.5	221.1	221.1	206.8	197.9
132.5°	149.8	146.2	142.7	142.7	149.8	171.2	203.3	210.4	208.6	194.4	187.2
135°	142.7	140.9	137.3	137.3	146.2	167.6	190.8	197.9	196.2	178.3	173.0
137.5°	139.1	135.5	135.5	135.5	144.4	165.8	180.1	185.5	183.7	165.8	160.5
140°	133.7	132.0	128.4	128.4	140.9	160.5	169.4	171.2	169.4	155.1	149.8
142.5°	124.8	123.0	121.3	124.8	137.3	151.6	158.7	158.7	156.9	148.0	140.9
145°	119.5	117.7	115.9	124.8	135.5	142.7	149.8	144.4	144.4	139.1	132.0
147.5°	114.1	112.3	112.3	119.5	128.4	128.4	133.7	132.0	133.7	132.0	124.8
150°	103.4	101.6	101.6	107.0	108.8	108.8	114.1	114.1	114.1	114.1	108.8
152.5°	90.9	89.2	90.9	92.7	92.7	92.7	96.3	98.1	98.1	96.3	94.5
155°	78.5	78.5	78.5	80.2	80.2	78.5	83.8	83.8	83.8	83.8	82.0
157.5°	69.5	69.5	69.5	69.5	69.5	67.8	71.3	71.3	73.1	71.3	71.3
160°	60.6	58.8	58.8	58.8	58.8	57.1	58.8	58.8	58.8	60.6	60.6
162.5°	48.1	46.4	46.4	46.4	46.4	42.8	46.4	44.6	46.4	46.4	48.1
165°	39.2	37.4	37.4	37.4	35.7	33.9	35.7	33.9	33.9	33.9	35.7
167.5°	30.3	30.3	28.5	30.3	28.5	25.0	25.0	23.2	23.2	23.2	23.2
170°	23.2	21.4	19.6	21.4	19.6	16.0	16.0	14.3	14.3	12.5	12.5
172.5°	16.0	14.3	12.5	14.3	12.5	8.9	8.9	5.3	5.3	5.3	5.3
175°	14.3	12.5	10.7	12.5	10.7	7.1	5.3	3.6	3.6	3.6	3.6
177.5°	14.3	12.5	10.7	12.5	10.7	7.1	5.3	3.6	3.6	3.6	3.6
180°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
2.5°	107.0	105.2	103.4	107.0	105.2	107.0	108.8	110.6	110.6	108.8	108.8
5°	123.0	121.3	117.7	115.9	112.3	112.3	112.3	115.9	115.9	114.1	115.9
7.5°	146.2	142.7	137.3	133.7	128.4	128.4	126.6	130.2	132.0	128.4	130.2
10°	164.1	162.3	155.1	149.8	144.4	142.7	142.7	144.4	144.4	142.7	142.7
12.5°	180.1	176.5	169.4	164.1	156.9	155.1	155.1	156.9	156.9	155.1	155.1
15°	203.3	192.6	185.5	180.1	173.0	171.2	169.4	171.2	173.0	169.4	169.4
17.5°	235.4	222.9	206.8	192.6	185.5	189.0	190.8	192.6	190.8	185.5	185.5
20°	253.2	246.1	224.7	214.0	205.1	205.1	205.1	205.1	205.1	203.3	205.1
22.5°	265.7	255.0	228.2	221.1	215.8	219.3	222.9	224.7	224.7	222.9	222.9
25°	322.8	283.5	256.8	251.4	244.3	246.1	242.5	242.5	244.3	242.5	246.1
27.5°	444.0	379.8	319.2	297.8	292.4	292.4	296.0	296.0	296.0	296.0	294.2
30°	533.2	458.3	358.4	329.9	326.3	342.4	351.3	358.4	354.9	349.5	349.5
32.5°	547.4	465.4	365.6	354.9	363.8	376.3	385.2	390.5	395.9	394.1	392.3
35°	517.1	429.7	360.2	374.5	381.6	388.7	390.5	387.0	403.0	410.1	411.9
37.5°	577.8	481.5	419.0	429.7	420.8	413.7	417.3	419.0	440.4	451.1	461.8
40°	738.2	581.3	476.1	470.8	465.4	481.5	502.9	513.6	511.8	504.6	506.4
42.5°	893.4	679.4	536.7	535.0	533.2	561.7	595.6	593.8	577.8	565.3	565.3
45°	1052.1	773.9	633.0	634.8	631.2	641.9	650.9	643.7	645.5	649.1	652.6
47.5°	1150.2	859.5	693.7	688.3	665.1	686.5	711.5	695.4	690.1	681.2	684.7
50°	1173.3	880.9	729.3	768.6	747.2	731.1	704.4	693.7	713.3	727.5	738.2
52.5°	1524.6	1087.7	911.2	973.6	945.1	888.0	882.7	864.8	886.2	888.0	900.5
55°	2555.3	1744.0	1255.4	1316.0	1317.8	1298.2	1387.3	1337.4	1292.8	1273.2	1266.1
57.5°	4028.2	2696.2	1624.5	1701.2	1774.3	1843.8	1965.1	1863.4	1735.0	1719.0	1736.8
60°	5158.8	3807.1	2072.1	2287.8	2385.9	2389.5	2405.5	2305.7	2227.2	2234.3	2259.3
62.5°	5401.3	4734.4	2639.1	2728.3	2737.2	2671.2	2699.7	2763.9	2653.4	2566.0	2589.2
65°	5239.0	5101.7	2824.6	2592.8	2578.5	2589.2	2783.6	2961.9	2739.0	2517.9	2517.9
67.5°	4925.2	4821.7	2635.5	2332.4	2371.6	2492.9	2739.0	2828.1	2591.0	2355.6	2355.6
70°	4589.9	4383.1	2423.3	2125.6	2221.8	2362.7	2523.2	2530.3	2391.3	2223.6	2212.9
72.5°	4227.9	4040.7	2332.4	2064.9	2109.5	2134.5	2221.8	2277.1	2261.1	2152.3	2150.5
75°	4120.9	3969.4	2330.6	2036.4	2009.6	2000.7	2061.4	2180.8	2236.1	2171.9	2175.5
77.5°	3958.7	3867.7	2221.8	1916.9	1888.4	1888.4	1920.5	2016.8	2100.6	2073.8	2082.8
80°	3846.3	3709.0	2056.0	1786.8	1747.5	1752.9	1756.4	1822.4	1900.9	1904.4	1904.4
82.5°	3630.6	3372.0	1804.6	1592.4	1565.6	1572.8	1560.3	1597.7	1619.1	1645.9	1640.5
85°	3275.7	2910.2	1524.6	1380.2	1337.4	1323.1	1312.4	1314.2	1326.7	1321.3	1299.9
87.5°	2744.3	2307.4	1216.1	1132.3	1082.4	1046.7	1032.5	1014.6	1012.8	993.2	1000.4
90°	2025.7	1583.5	902.3	872.0	836.3	798.9	779.3	761.4	747.2	727.5	720.4
92.5°	1321.3	1020.0	659.8	643.7	620.5	599.2	590.2	581.3	577.8	561.7	567.1
95°	825.6	690.1	495.7	477.9	465.4	460.1	461.8	463.6	460.1	442.2	447.6
97.5°	551.0	499.3	387.0	374.5	362.0	360.2	362.0	365.6	367.3	354.9	358.4
100°	406.6	383.4	317.4	308.5	297.8	294.2	296.0	299.6	301.4	290.7	292.4
102.5°	322.8	312.1	274.6	271.0	258.6	255.0	258.6	260.3	262.1	255.0	255.0
105°	283.5	283.5	253.2	251.4	242.5	238.9	240.7	242.5	244.3	237.2	237.2
107.5°	272.8	274.6	244.3	246.1	240.7	238.9	242.5	246.1	244.3	238.9	237.2
110°	281.7	285.3	244.3	249.6	251.4	255.0	262.1	263.9	263.9	260.3	262.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	290.7	296.0	240.7	253.2	265.7	274.6	287.1	294.2	290.7	288.9	290.7
115°	283.5	287.1	224.7	244.3	267.5	280.0	283.5	283.5	274.6	274.6	276.4
117.5°	274.6	281.7	208.6	224.7	240.7	251.4	249.6	244.3	233.6	230.0	240.7
120°	255.0	276.4	199.7	203.3	205.1	208.6	203.3	197.9	189.0	187.2	194.4
122.5°	235.4	255.0	183.7	180.1	178.3	178.3	176.5	174.8	169.4	171.2	178.3
125°	219.3	230.0	167.6	162.3	160.5	162.3	162.3	162.3	158.7	155.1	155.1
127.5°	206.8	210.4	158.7	151.6	149.8	149.8	149.8	151.6	149.8	144.4	144.4
130°	199.7	197.9	153.4	140.9	139.1	140.9	140.9	142.7	139.1	135.5	135.5
132.5°	185.5	181.9	146.2	133.7	132.0	133.7	133.7	133.7	130.2	126.6	126.6
135°	169.4	165.8	137.3	124.8	123.0	124.8	124.8	126.6	123.0	119.5	119.5
137.5°	156.9	153.4	128.4	117.7	115.9	115.9	117.7	117.7	115.9	112.3	112.3
140°	146.2	142.7	119.5	110.6	107.0	108.8	108.8	108.8	107.0	103.4	103.4
142.5°	137.3	135.5	110.6	101.6	98.1	99.9	99.9	101.6	98.1	94.5	94.5
145°	130.2	126.6	103.4	92.7	90.9	90.9	90.9	92.7	89.2	85.6	85.6
147.5°	123.0	119.5	94.5	83.8	82.0	82.0	82.0	82.0	80.2	76.7	74.9
150°	108.8	107.0	87.4	76.7	73.1	73.1	73.1	71.3	67.8	64.2	64.2
152.5°	92.7	90.9	76.7	67.8	64.2	64.2	62.4	62.4	58.8	57.1	55.3
155°	80.2	80.2	69.5	60.6	57.1	55.3	53.5	53.5	51.7	49.9	48.1
157.5°	71.3	69.5	62.4	55.3	48.1	48.1	46.4	46.4	44.6	42.8	41.0
160°	60.6	60.6	53.5	46.4	41.0	39.2	39.2	37.4	35.7	33.9	33.9
162.5°	48.1	48.1	42.8	37.4	32.1	32.1	30.3	30.3	28.5	26.7	25.0
165°	33.9	33.9	32.1	28.5	25.0	23.2	23.2	23.2	21.4	19.6	19.6
167.5°	23.2	23.2	21.4	19.6	17.8	16.0	17.8	17.8	16.0	14.3	14.3
170°	12.5	12.5	10.7	10.7	8.9	8.9	10.7	12.5	10.7	8.9	7.1
172.5°	5.3	5.3	5.3	5.3	3.6	5.3	7.1	8.9	7.1	5.3	5.3
175°	3.6	3.6	5.3	5.3	3.6	5.3	7.1	8.9	7.1	5.3	5.3
177.5°	3.6	3.6	5.3	5.3	3.6	5.3	7.1	8.9	7.1	5.3	5.3
180°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1

(END OF REPORT)