

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: P588415

Luminaire Tested: **GAT-CA6-LED-120-760-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
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-120-760-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10974 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B4 - U3 - G4

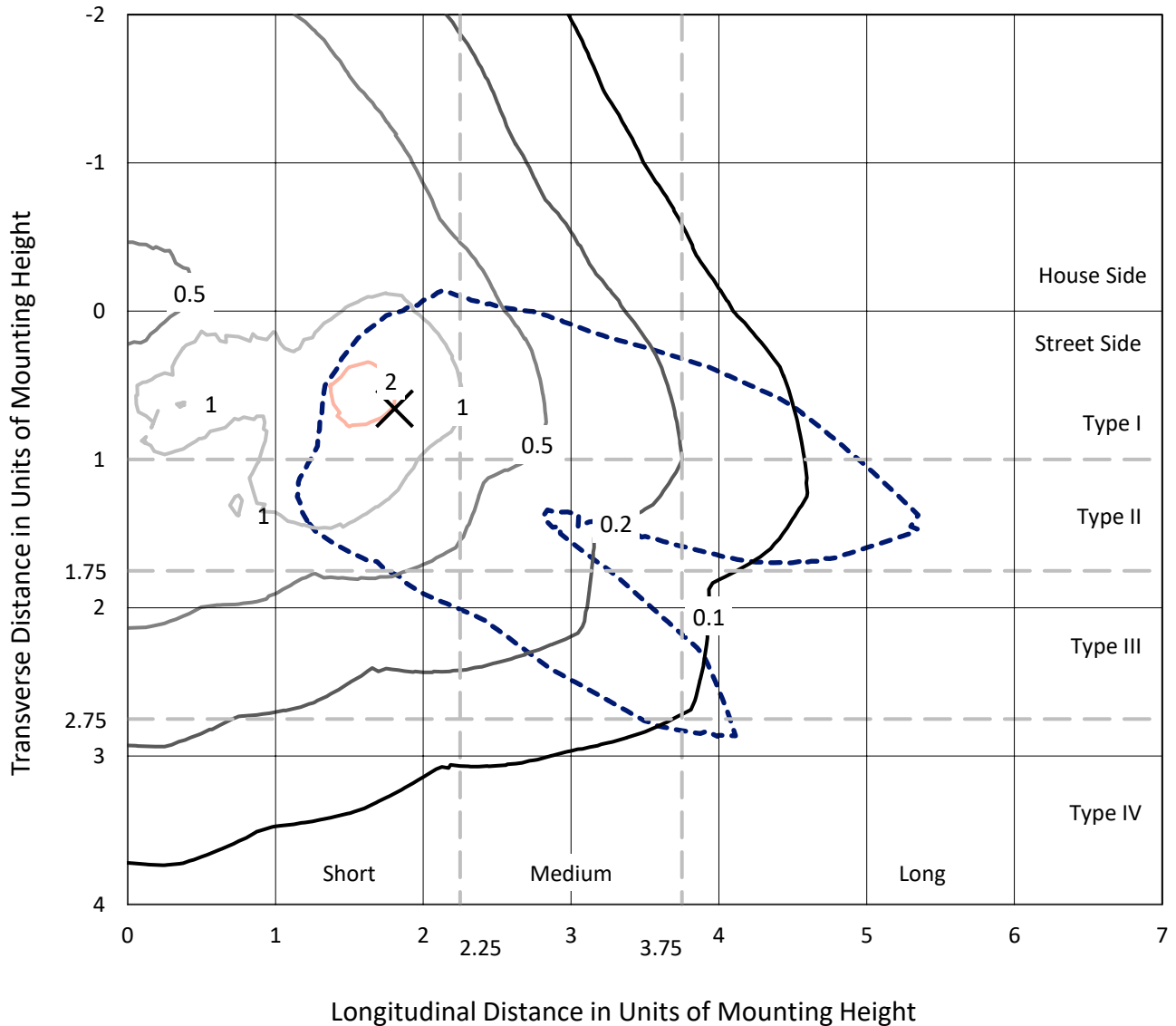
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

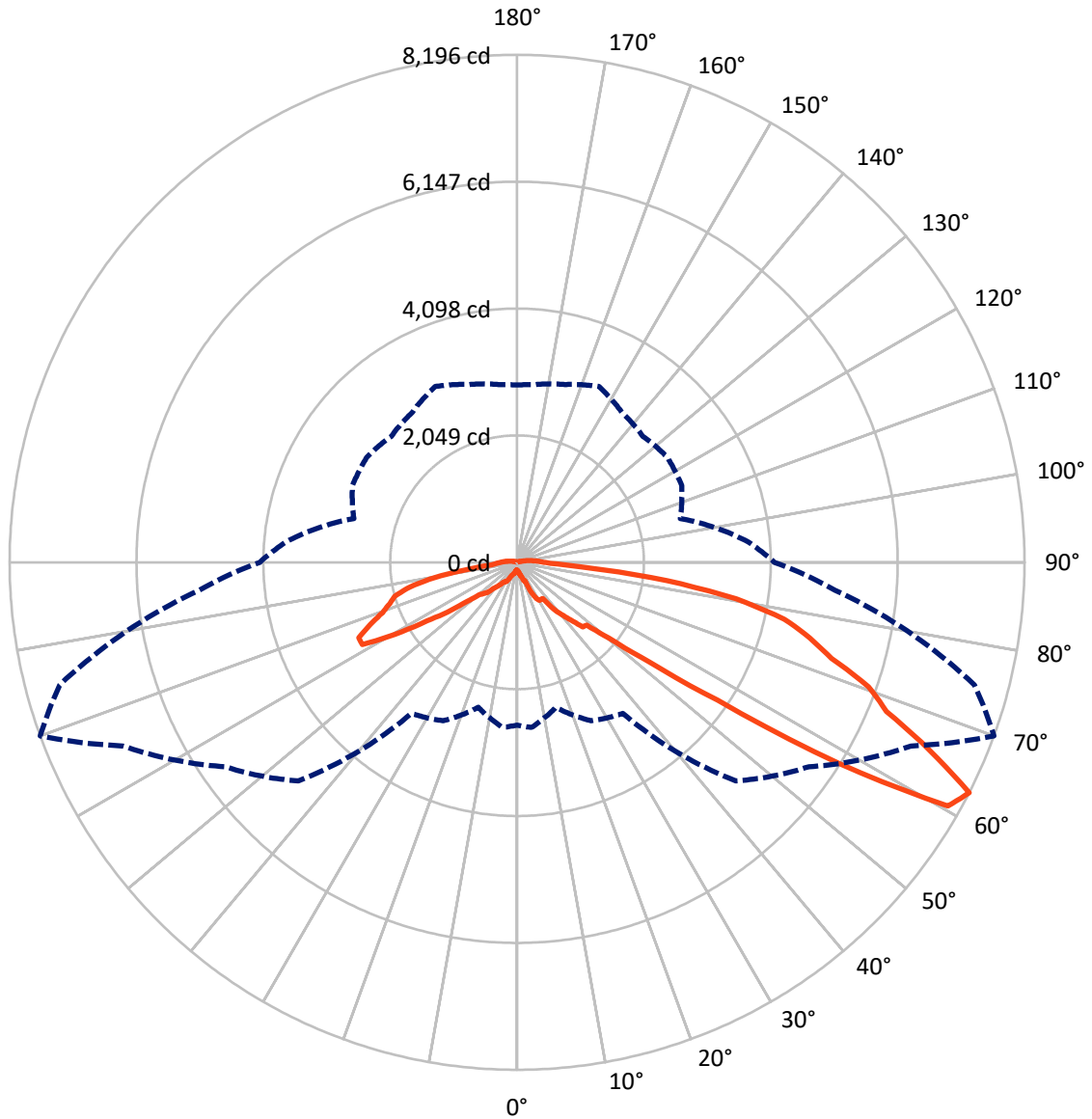
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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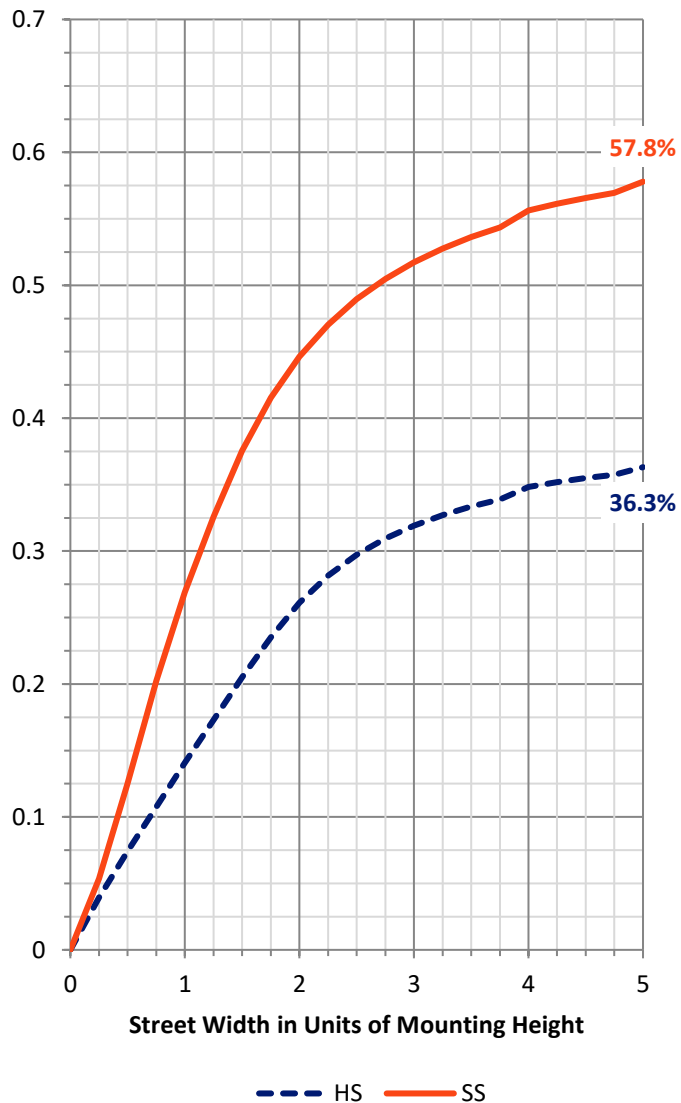
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4067.2	149.1	4216.3
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	6552.8	204.9	6757.7
	% Fixture	59.7	1.9	61.6
Total	Lumens	10620.0	354.0	10974.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	0.1
10°-20°	59.7	0.5
20°-30°	185.1	1.7
30°-40°	397.0	3.6
40°-50°	743.8	6.8
50°-60°	1930.2	17.6
60°-70°	3535.8	32.2
70°-80°	2836.1	25.8
80°-90°	918.4	8.4
90°-100°	242.0	2.2
100°-110°	78.7	0.7
110°-120°	30.9	0.3
120°-130°	2.4	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10620.0	96.8
0°-180°	10974.0	100.0

Coefficient of Utilization



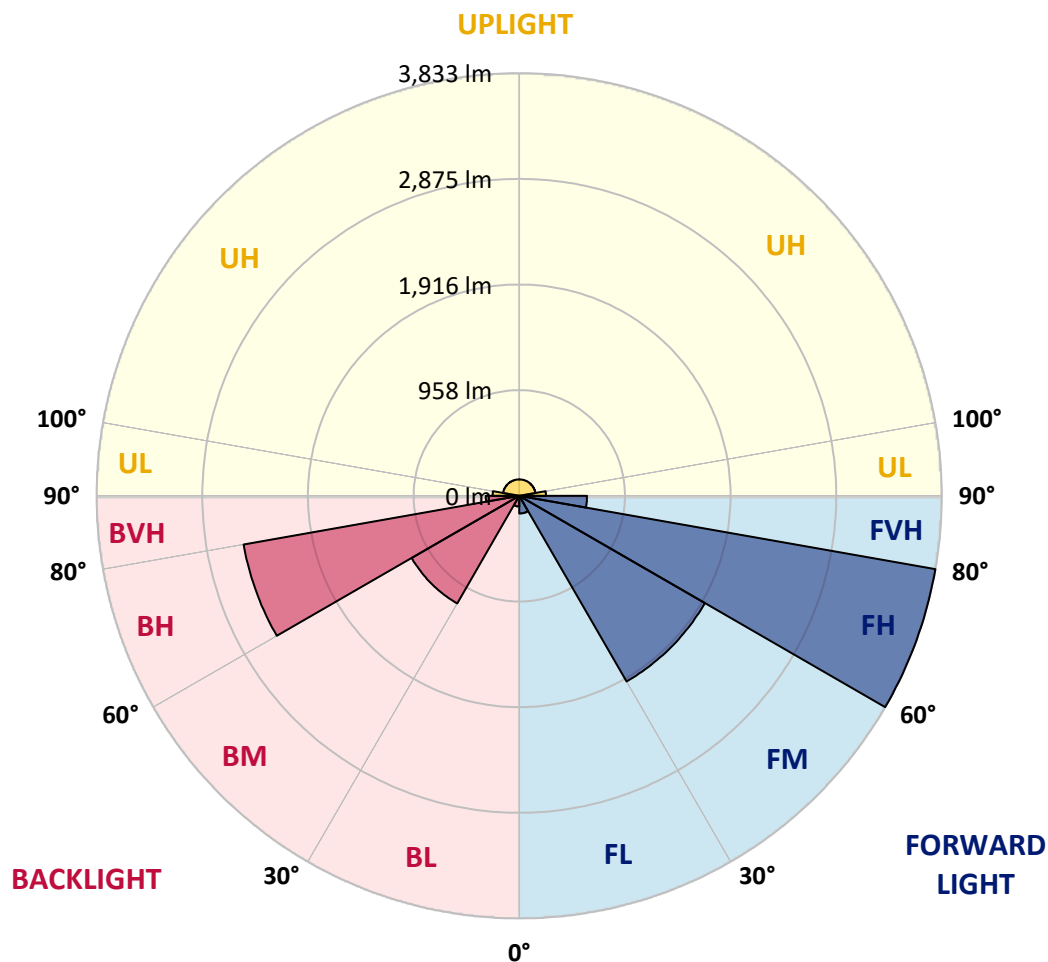
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.0	1.5			
FM (30°-60°)	1944.4	17.7			
FH (60°-80°)	3833.0	34.9			G2/5000
FVH (80°-90°)	614.4	5.6			G4/750
BL (0°-30°)	97.7	0.9	B0/110		
BM (30°-60°)	1126.6	10.3	B2/2500		
BH (60°-80°)	2538.9	23.1	B4/5000		G4/5000
BVH (80°-90°)	304.0	2.8			G3/500
UL (90°-100°)	242.0	2.2		U3/500	
UH (100°-180°)	149.1	1.4		U3/500	

BUG Rating: B4-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
2.5°	140.6	140.6	140.6	138.5	136.4	134.3	132.2	132.2	130.1	128.0	125.9
5°	153.1	151.0	148.9	144.8	142.7	142.7	140.6	140.6	140.6	138.5	136.4
7.5°	169.9	169.9	167.8	165.7	163.6	161.5	159.4	157.3	157.3	155.2	153.1
10°	193.0	193.0	193.0	190.9	190.9	188.8	184.6	182.5	178.3	176.2	169.9
12.5°	216.1	218.2	214.0	214.0	214.0	211.9	207.7	205.6	201.4	197.2	188.8
15°	239.2	237.1	235.0	232.9	237.1	237.1	235.0	235.0	226.6	220.3	205.6
17.5°	260.1	260.1	262.2	262.2	268.5	266.4	266.4	264.3	260.1	249.6	230.8
20°	293.7	295.8	295.8	295.8	316.8	325.2	327.3	329.4	323.1	302.1	264.3
22.5°	327.3	329.4	344.1	339.9	339.9	339.9	360.8	350.3	323.1	297.9	276.9
25°	442.7	448.9	453.1	467.8	484.6	530.8	604.2	581.1	539.2	453.1	381.8
27.5°	553.8	562.2	637.8	742.6	757.3	702.8	755.2	686.0	665.0	576.9	518.2
30°	604.2	618.9	748.9	820.3	845.4	774.1	849.6	717.5	711.2	648.2	597.9
32.5°	616.8	627.3	769.9	778.3	784.6	776.2	889.5	728.0	713.3	650.3	576.9
35°	597.9	610.5	707.0	658.7	660.8	809.8	1021.7	784.6	717.5	608.4	526.6
37.5°	736.4	736.4	818.2	830.8	885.3	1065.7	1338.4	1036.4	960.8	793.0	692.3
40°	839.2	849.6	979.7	1028.0	1036.4	1189.5	1676.2	1214.7	1107.7	887.4	809.8
42.5°	977.6	975.5	1095.1	1128.7	1151.7	1208.4	1714.0	1397.2	1271.3	1004.9	946.1
45°	1000.7	1034.3	1143.3	1105.6	1135.0	1279.7	1789.5	1655.2	1487.4	1227.3	1105.6
47.5°	908.4	954.5	1174.8	1143.3	1025.9	1093.0	1434.9	1699.3	1514.7	1260.8	1174.8
50°	979.7	1004.9	1114.0	1093.0	935.7	1162.2	1575.5	2129.3	1923.8	1500.0	1279.7
52.5°	1267.1	1321.7	1340.5	1422.4	1346.8	1739.1	2204.9	2697.9	2670.6	2171.3	1688.8
55°	1628.0	1707.7	1791.6	2102.1	2146.1	2731.4	3077.6	3604.2	3931.4	3434.2	2590.9
57.5°	2018.2	2131.4	2104.2	2555.2	2624.4	3700.7	4019.5	5253.1	6127.9	5452.4	3795.1
60°	2395.8	2471.3	2318.2	2714.7	2846.8	4659.4	5127.2	6841.2	7992.9	7273.4	4674.1
62.5°	2628.6	2676.9	2425.1	2823.7	2979.0	4993.0	5754.5	7019.5	8196.4	7648.9	5150.3
65°	2626.5	2614.0	2326.5	2672.7	2651.7	4609.0	5561.5	5899.2	7321.6	7229.3	5211.1
67.5°	2523.7	2527.9	2225.9	2500.7	2414.7	4063.6	5152.4	4990.9	6436.3	6560.1	5068.5
70°	2425.1	2475.5	2188.1	2427.2	2387.4	3908.4	4974.1	4491.6	6020.9	6255.9	4917.4
72.5°	2286.7	2334.9	2064.3	2274.1	2288.8	3597.9	4669.9	3920.9	5309.7	5592.9	4407.6
75°	2284.6	2345.4	2091.6	2276.2	2299.3	3421.6	4707.6	3723.7	4883.9	5263.6	4113.9
77.5°	2154.5	2209.1	1974.1	2146.1	2211.2	3096.5	4491.6	3478.3	4411.8	4837.7	3730.0
80°	1730.8	1804.2	1611.2	1724.5	1760.1	2322.4	3602.1	2848.9	3589.5	4015.3	3048.2
82.5°	1183.2	1250.3	1122.4	1206.3	1252.4	1523.1	2490.2	2051.7	2439.8	2700.0	1909.1
85°	683.9	763.6	688.1	677.6	700.7	803.5	1340.5	1090.9	1135.0	1193.7	847.5
87.5°	430.1	442.7	404.9	407.0	411.2	440.6	610.5	486.7	537.1	608.4	514.0
90°	342.0	354.5	327.3	329.4	323.1	350.3	457.3	371.3	413.3	476.2	407.0
92.5°	295.8	304.2	285.3	289.5	285.3	306.3	381.8	306.3	339.9	390.2	333.6
95°	251.7	258.0	247.5	249.6	237.1	249.6	297.9	232.9	258.0	293.7	249.6
97.5°	201.4	207.7	201.4	201.4	188.8	195.1	228.7	180.4	197.2	220.3	188.8
100°	159.4	161.5	159.4	157.3	146.9	146.9	159.4	130.1	136.4	151.0	130.1
102.5°	121.7	123.8	121.7	119.6	107.0	100.7	100.7	83.9	88.1	92.3	81.8
105°	96.5	98.6	96.5	92.3	81.8	75.5	73.4	60.8	60.8	62.9	56.6
107.5°	79.7	79.7	79.7	75.5	69.2	60.8	54.5	44.1	44.1	46.2	44.1
110°	65.0	65.0	62.9	60.8	54.5	48.3	42.0	35.7	35.7	35.7	33.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	54.5	54.5	52.4	50.3	44.1	37.8	33.6	29.4	29.4	29.4	27.3
115°	46.2	46.2	44.1	42.0	37.8	31.5	27.3	23.1	23.1	23.1	23.1
117.5°	39.9	39.9	37.8	35.7	31.5	27.3	23.1	18.9	18.9	18.9	18.9
120°	35.7	33.6	31.5	29.4	25.2	23.1	18.9	16.8	16.8	16.8	14.7
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1
2.5°	125.9	125.9	123.8	123.8	123.8	121.7	121.7	123.8	123.8	123.8	123.8
5°	134.3	132.2	128.0	123.8	121.7	119.6	117.5	117.5	121.7	121.7	121.7
7.5°	151.0	148.9	142.7	138.5	134.3	130.1	128.0	125.9	128.0	130.1	130.1
10°	167.8	165.7	157.3	151.0	148.9	144.8	142.7	140.6	142.7	142.7	142.7
12.5°	184.6	180.4	174.1	165.7	161.5	159.4	157.3	155.2	155.2	155.2	155.2
15°	199.3	193.0	186.7	180.4	176.2	172.0	169.9	167.8	169.9	172.0	172.0
17.5°	222.4	216.1	201.4	190.9	188.8	184.6	182.5	182.5	184.6	186.7	186.7
20°	247.5	235.0	218.2	207.7	205.6	199.3	197.2	197.2	199.3	201.4	201.4
22.5°	268.5	260.1	235.0	220.3	218.2	216.1	218.2	218.2	220.3	222.4	222.4
25°	342.0	308.4	272.7	262.2	260.1	255.9	251.7	249.6	251.7	258.0	260.1
27.5°	461.5	400.7	333.6	310.5	310.5	314.7	323.1	327.3	318.9	314.7	316.8
30°	541.3	459.4	362.9	342.0	346.2	367.1	386.0	398.6	390.2	383.9	386.0
32.5°	520.3	444.8	375.5	371.3	383.9	400.7	411.2	417.5	434.3	440.6	448.9
35°	474.1	417.5	379.7	396.5	404.9	404.9	404.9	404.9	436.4	465.7	474.1
37.5°	579.0	482.5	451.0	457.3	451.0	444.8	451.0	467.8	495.1	518.2	524.5
40°	679.7	558.0	505.6	501.4	499.3	520.3	558.0	587.4	595.8	574.8	579.0
42.5°	790.9	631.5	564.3	570.6	587.4	621.0	662.9	662.9	662.9	644.0	650.3
45°	895.8	717.5	677.6	694.4	694.4	711.2	734.3	719.6	738.5	746.8	757.3
47.5°	1019.6	832.9	744.7	730.1	732.2	765.7	774.1	767.8	780.4	765.7	765.7
50°	1057.3	851.7	782.5	839.2	839.2	801.4	769.9	774.1	809.8	849.6	858.0
52.5°	1344.7	1055.2	992.3	1051.0	1076.2	1011.2	1011.2	1019.6	1028.0	1057.3	1065.7
55°	2011.9	1504.2	1315.4	1451.7	1470.6	1510.5	1619.6	1602.8	1506.3	1458.0	1453.8
57.5°	3008.4	2232.1	1638.4	1831.4	1953.1	2116.8	2198.6	2150.3	2020.3	1976.2	1928.0
60°	3845.4	3056.6	2123.1	2458.7	2641.2	2668.5	2639.1	2643.3	2544.7	2576.2	2563.6
62.5°	4155.9	3751.0	2729.3	2932.8	2960.1	2876.2	2953.8	3132.1	2972.7	2878.3	2863.6
65°	4248.2	4009.0	2899.3	2767.1	2741.9	2727.2	3033.5	3331.4	2974.8	2754.5	2752.4
67.5°	4155.9	3744.7	2683.2	2465.0	2523.7	2643.3	3041.9	3153.1	2817.5	2574.1	2557.3
70°	4036.3	3318.8	2414.7	2225.9	2362.2	2536.3	2790.2	2746.1	2614.0	2397.9	2387.4
72.5°	3602.1	2876.2	2242.6	2085.3	2240.5	2290.9	2416.8	2397.9	2435.6	2299.3	2293.0
75°	3224.4	2641.2	2139.8	1955.2	2030.7	2022.4	2123.1	2146.1	2253.1	2194.4	2171.3
77.5°	2781.8	2297.2	1886.0	1672.0	1701.4	1699.3	1747.5	1762.2	1837.7	1841.9	1816.8
80°	2177.6	1800.0	1472.7	1258.7	1262.9	1225.2	1231.5	1229.4	1244.0	1260.8	1237.7
82.5°	1250.3	1004.9	835.0	698.6	669.2	618.9	608.4	612.6	606.3	602.1	602.1
85°	612.6	476.2	438.5	392.3	375.5	362.9	369.2	381.8	388.1	375.5	369.2
87.5°	413.3	356.6	339.9	321.0	312.6	300.0	308.4	318.9	327.3	316.8	314.7
90°	327.3	283.2	279.0	274.8	268.5	258.0	266.4	279.0	285.3	276.9	272.7
92.5°	264.3	228.7	228.7	226.6	220.3	211.9	222.4	232.9	239.2	232.9	230.8
95°	203.5	176.2	182.5	178.3	172.0	169.9	176.2	184.6	188.8	184.6	184.6
97.5°	157.3	138.5	144.8	142.7	134.3	132.2	136.4	142.7	146.9	142.7	140.6
100°	107.0	98.6	107.0	107.0	98.6	94.4	98.6	104.9	107.0	107.0	104.9
102.5°	71.3	67.1	77.6	79.7	75.5	71.3	73.4	77.6	79.7	79.7	79.7
105°	50.3	50.3	60.8	62.9	58.7	54.5	58.7	60.8	60.8	60.8	60.8
107.5°	39.9	42.0	48.3	52.4	48.3	44.1	46.2	48.3	48.3	48.3	50.3
110°	33.6	33.6	39.9	44.1	39.9	37.8	37.8	37.8	37.8	39.9	44.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.3	29.4	33.6	35.7	33.6	31.5	31.5	31.5	31.5	33.6	39.9
115°	23.1	25.2	29.4	29.4	27.3	27.3	27.3	25.2	25.2	27.3	37.8
117.5°	18.9	21.0	23.1	23.1	23.1	21.0	21.0	21.0	21.0	25.2	39.9
120°	16.8	16.8	18.9	18.9	16.8	16.8	16.8	16.8	14.7	21.0	31.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)