

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: P588387

Luminaire Tested: **GAT-CA6-LED-110-750-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588387
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-110-750-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10346 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

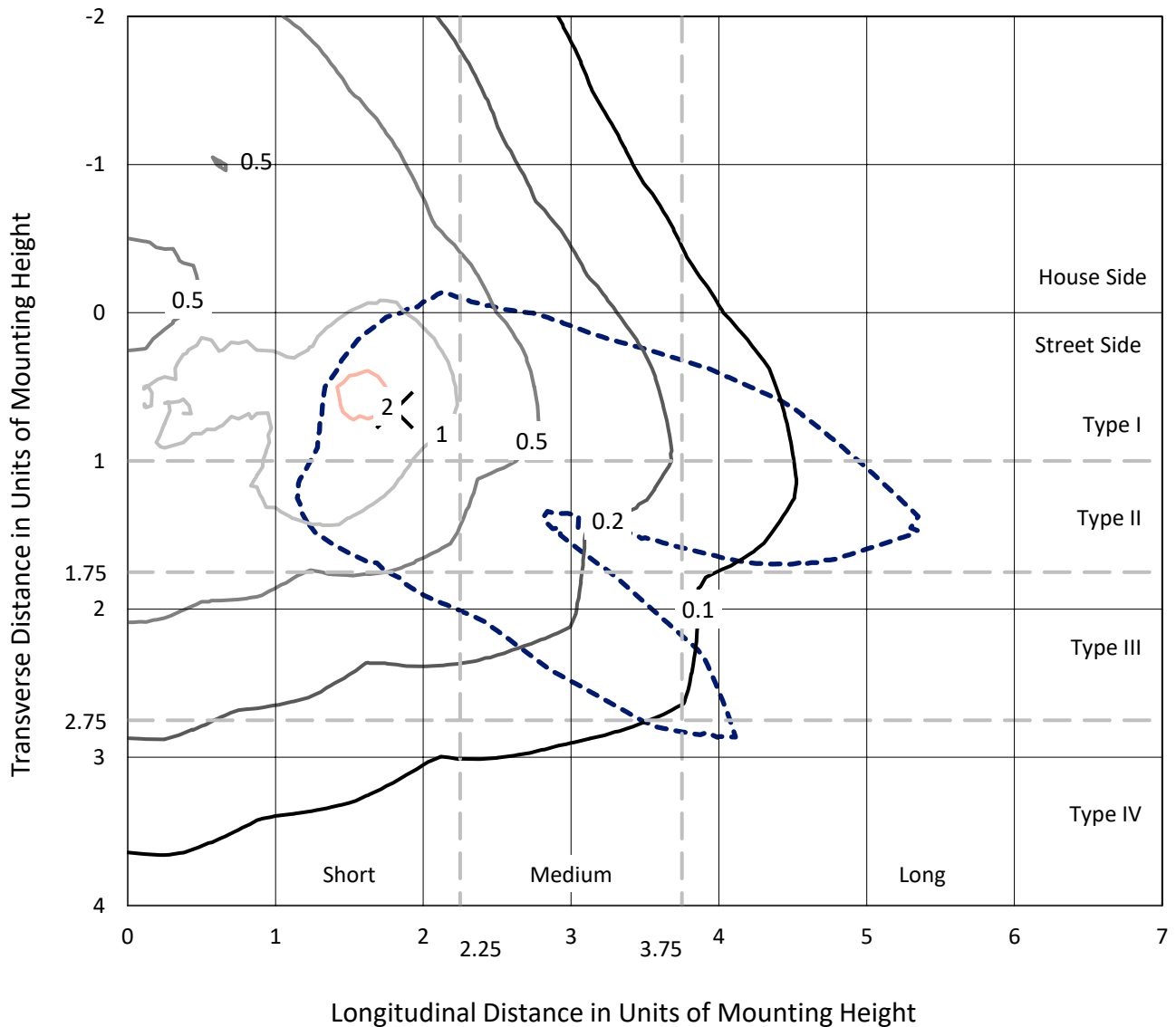
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

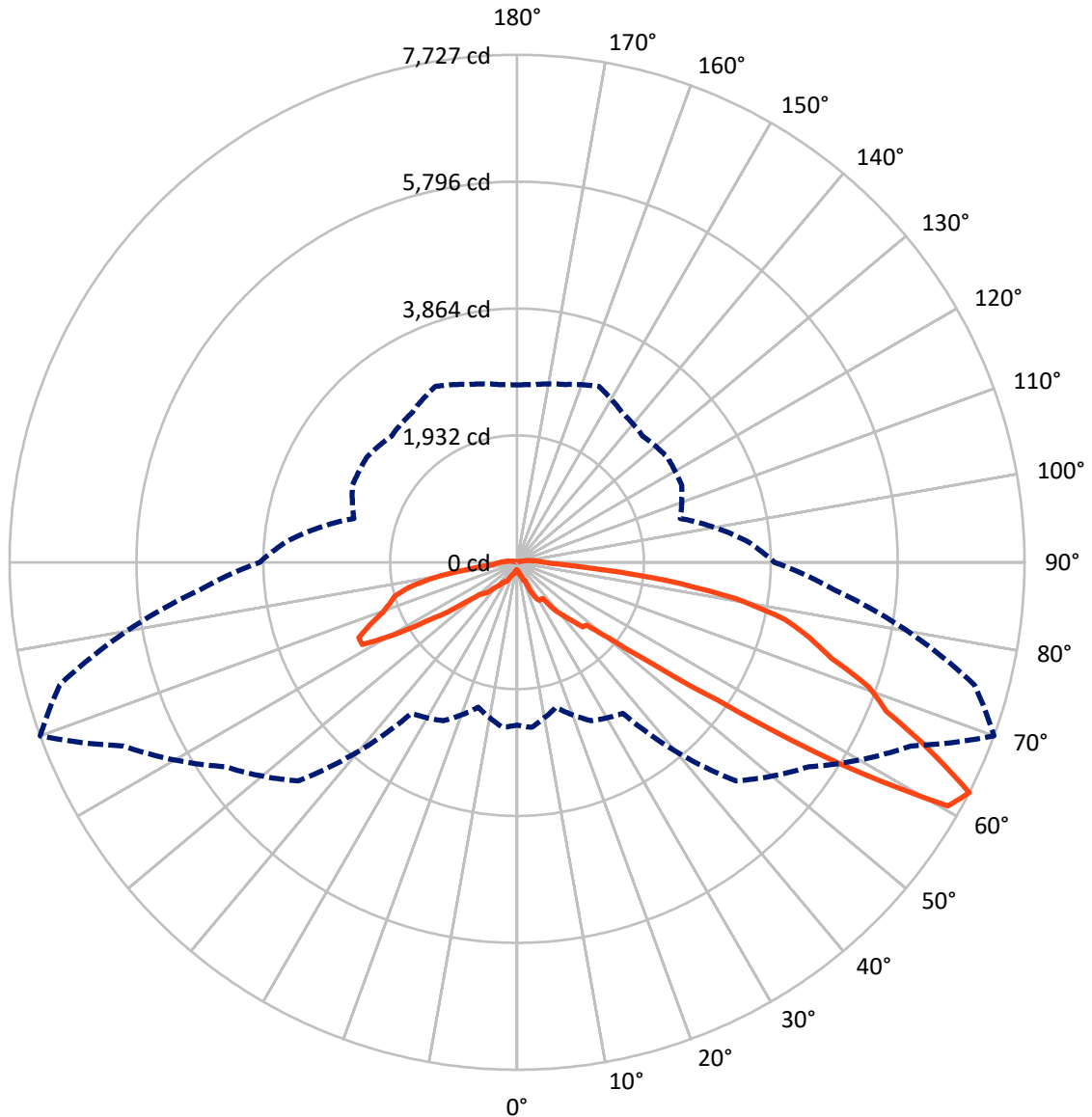
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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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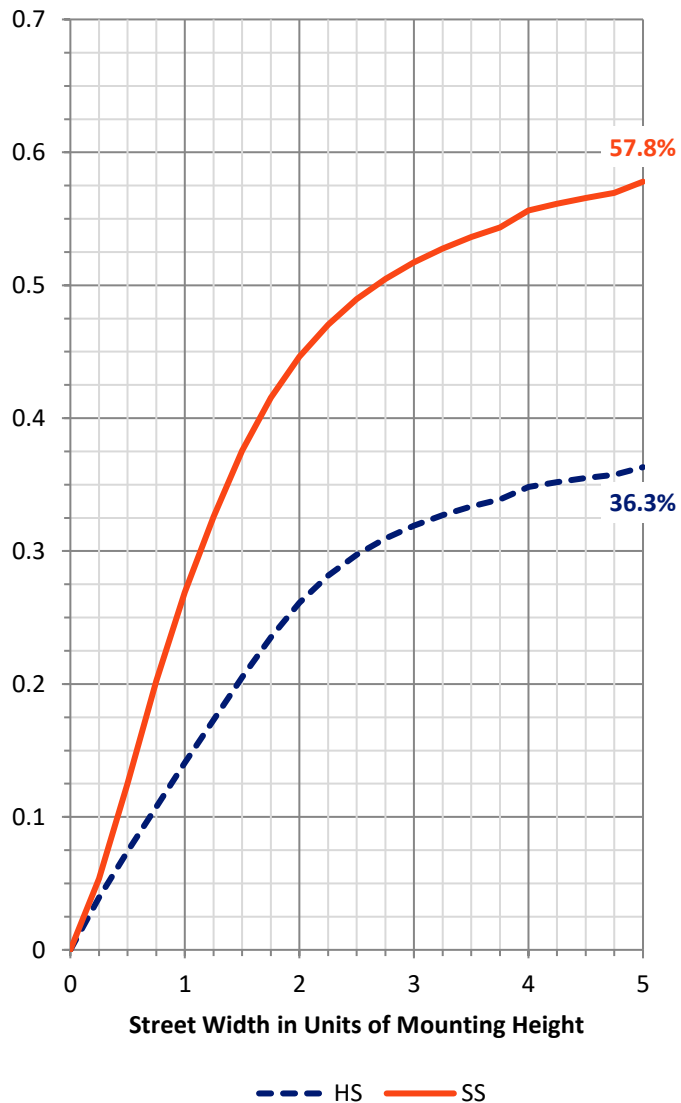
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.5	140.6	3975.0
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	6177.8	193.2	6371.0
	% Fixture	59.7	1.9	61.6
Total	Lumens	10012.3	333.7	10346.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.1
10°-20°	56.3	0.5
20°-30°	174.5	1.7
30°-40°	374.3	3.6
40°-50°	701.2	6.8
50°-60°	1819.8	17.6
60°-70°	3333.5	32.2
70°-80°	2673.8	25.8
80°-90°	865.8	8.4
90°-100°	228.1	2.2
100°-110°	74.2	0.7
110°-120°	29.1	0.3
120°-130°	2.3	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°	10012.3	96.8
0°-180°	10346.0	100.0

Coefficient of Utilization



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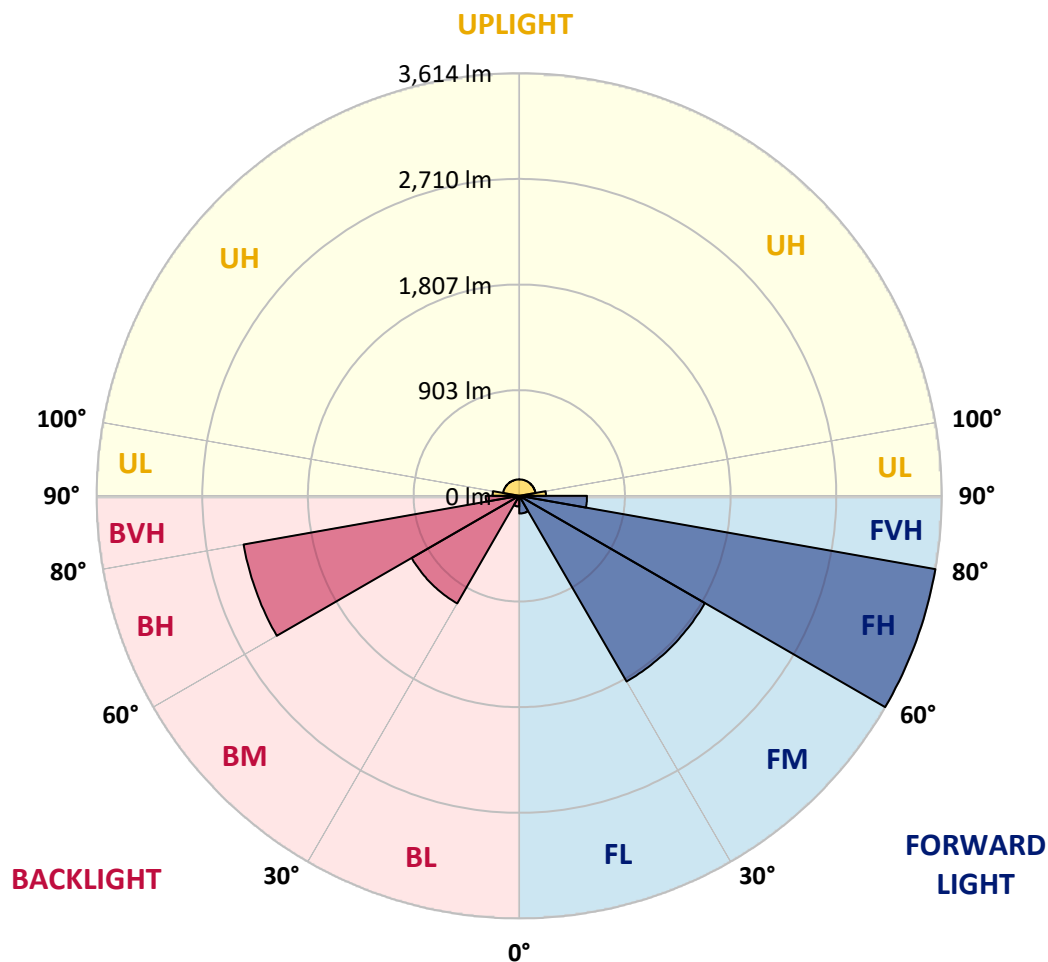
CATALOG NUMBER: GAT-CA6-LED-110-750-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.8	1.5			
FM (30°-60°)	1833.2	17.7			
FH (60°-80°)	3613.6	34.9			G2/5000
FVH (80°-90°)	579.2	5.6			G4/750
BL (0°-30°)	92.1	0.9	B0/110		
BM (30°-60°)	1062.2	10.3	B2/2500		
BH (60°-80°)	2393.7	23.1	B3/2500		G3/2500
BVH (80°-90°)	286.6	2.8			G3/500
UL (90°-100°)	228.1	2.2		U3/500	
UH (100°-180°)	140.6	1.4		U3/500	

BUG Rating: B3-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6
2.5°	132.5	132.5	132.5	130.5	128.6	126.6	124.6	124.6	122.6	120.6	118.7
5°	144.4	142.4	140.4	136.5	134.5	134.5	132.5	132.5	132.5	130.5	128.6
7.5°	160.2	160.2	158.2	156.2	154.3	152.3	150.3	148.3	148.3	146.4	144.4
10°	182.0	182.0	182.0	180.0	180.0	178.0	174.0	172.1	168.1	166.1	160.2
12.5°	203.7	205.7	201.7	201.7	201.7	199.8	195.8	193.8	189.9	185.9	178.0
15°	225.5	223.5	221.5	219.5	223.5	223.5	221.5	221.5	213.6	207.7	193.8
17.5°	245.3	245.3	247.2	247.2	253.2	251.2	251.2	249.2	245.3	235.4	217.6
20°	276.9	278.9	278.9	278.9	298.7	306.6	308.5	310.5	304.6	284.8	249.2
22.5°	308.5	310.5	324.4	320.4	320.4	320.4	340.2	330.3	304.6	280.9	261.1
25°	417.3	423.3	427.2	441.1	456.9	500.4	569.6	547.9	508.3	427.2	360.0
27.5°	522.1	530.1	601.3	700.2	714.0	662.6	712.0	646.7	627.0	543.9	488.5
30°	569.6	583.5	706.1	773.3	797.1	729.8	801.0	676.4	670.5	611.1	563.7
32.5°	581.5	591.4	725.9	733.8	739.7	731.8	838.6	686.3	672.5	613.1	543.9
35°	563.7	575.5	666.5	621.0	623.0	763.4	963.2	739.7	676.4	573.6	496.4
37.5°	694.2	694.2	771.4	783.2	834.6	1004.7	1261.9	977.0	905.8	747.6	652.7
40°	791.1	801.0	923.6	969.1	977.0	1121.4	1580.3	1145.2	1044.3	836.6	763.4
42.5°	921.7	919.7	1032.4	1064.1	1085.8	1139.2	1615.9	1317.2	1198.6	947.4	892.0
45°	943.4	975.1	1077.9	1042.3	1070.0	1206.5	1687.1	1560.5	1402.3	1157.0	1042.3
47.5°	856.4	899.9	1107.6	1077.9	967.2	1030.4	1352.8	1602.0	1428.0	1188.7	1107.6
50°	923.6	947.4	1050.2	1030.4	882.1	1095.7	1485.3	2007.5	1813.7	1414.1	1206.5
52.5°	1194.6	1246.0	1263.8	1341.0	1269.8	1639.6	2078.7	2543.5	2517.8	2047.1	1592.2
55°	1534.8	1610.0	1689.1	1981.8	2023.3	2575.1	2901.5	3397.9	3706.4	3237.7	2442.6
57.5°	1902.7	2009.5	1983.8	2409.0	2474.3	3488.9	3789.5	4952.5	5777.2	5140.4	3577.9
60°	2258.7	2329.9	2185.5	2559.3	2683.9	4392.8	4833.8	6449.7	7535.5	6857.1	4406.6
62.5°	2478.2	2523.7	2286.4	2662.2	2808.5	4707.2	5425.2	6617.8	7727.4	7211.2	4855.6
65°	2476.2	2464.4	2193.4	2519.8	2500.0	4345.3	5243.2	5561.6	6902.6	6815.6	4912.9
67.5°	2379.3	2383.3	2098.5	2357.6	2276.5	3831.0	4857.5	4705.2	6068.0	6184.7	4778.4
70°	2286.4	2333.8	2062.9	2288.3	2250.8	3684.7	4689.4	4234.5	5676.4	5897.9	4636.0
72.5°	2155.8	2201.3	1946.2	2144.0	2157.8	3392.0	4402.6	3696.6	5005.9	5272.9	4155.4
75°	2153.9	2211.2	1971.9	2145.9	2167.7	3225.8	4438.2	3510.6	4604.4	4962.4	3878.5
77.5°	2031.2	2082.7	1861.1	2023.3	2084.6	2919.3	4234.5	3279.2	4159.4	4560.9	3516.6
80°	1631.7	1700.9	1519.0	1625.8	1659.4	2189.5	3395.9	2685.9	3384.1	3785.6	2873.8
82.5°	1115.5	1178.8	1058.1	1137.3	1180.8	1435.9	2347.7	1934.3	2300.2	2545.5	1799.8
85°	644.8	719.9	648.7	638.8	660.6	757.5	1263.8	1028.5	1070.0	1125.4	799.0
87.5°	405.5	417.3	381.7	383.7	387.7	415.3	575.5	458.9	506.3	573.6	484.6
90°	322.4	334.3	308.5	310.5	304.6	330.3	431.2	350.1	389.6	449.0	383.7
92.5°	278.9	286.8	269.0	272.9	269.0	288.8	360.0	288.8	320.4	367.9	314.5
95°	237.3	243.3	233.4	235.4	223.5	235.4	280.9	219.5	243.3	276.9	235.4
97.5°	189.9	195.8	189.9	189.9	178.0	183.9	215.6	170.1	185.9	207.7	178.0
100°	150.3	152.3	150.3	148.3	138.4	138.4	150.3	122.6	128.6	142.4	122.6
102.5°	114.7	116.7	114.7	112.7	100.9	94.9	94.9	79.1	83.1	87.0	77.1
105°	91.0	93.0	91.0	87.0	77.1	71.2	69.2	57.4	57.4	59.3	53.4
107.5°	75.2	75.2	75.2	71.2	65.3	57.4	51.4	41.5	41.5	43.5	41.5
110°	61.3	61.3	59.3	57.4	51.4	45.5	39.6	33.6	33.6	33.6	31.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	51.4	51.4	49.4	47.5	41.5	35.6	31.6	27.7	27.7	27.7	25.7
115°	43.5	43.5	41.5	39.6	35.6	29.7	25.7	21.8	21.8	21.8	21.8
117.5°	37.6	37.6	35.6	33.6	29.7	25.7	21.8	17.8	17.8	17.8	17.8
120°	33.6	31.6	29.7	27.7	23.7	21.8	17.8	15.8	15.8	15.8	13.8
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°	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6	122.6
2.5°	118.7	118.7	116.7	116.7	116.7	114.7	114.7	116.7	116.7	116.7	116.7
5°	126.6	124.6	120.6	116.7	114.7	112.7	110.8	110.8	114.7	114.7	114.7
7.5°	142.4	140.4	134.5	130.5	126.6	122.6	120.6	118.7	120.6	122.6	122.6
10°	158.2	156.2	148.3	142.4	140.4	136.5	134.5	132.5	134.5	134.5	134.5
12.5°	174.0	170.1	164.2	156.2	152.3	150.3	148.3	146.4	146.4	146.4	146.4
15°	187.9	182.0	176.0	170.1	166.1	162.2	160.2	158.2	160.2	162.2	162.2
17.5°	209.6	203.7	189.9	180.0	178.0	174.0	172.1	172.1	174.0	176.0	176.0
20°	233.4	221.5	205.7	195.8	193.8	187.9	185.9	185.9	187.9	189.9	189.9
22.5°	253.2	245.3	221.5	207.7	205.7	203.7	205.7	205.7	207.7	209.6	209.6
25°	322.4	290.7	257.1	247.2	245.3	241.3	237.3	235.4	237.3	243.3	245.3
27.5°	435.1	377.8	314.5	292.7	292.7	296.7	304.6	308.5	300.6	296.7	298.7
30°	510.3	433.1	342.2	322.4	326.3	346.1	363.9	375.8	367.9	361.9	363.9
32.5°	490.5	419.3	354.0	350.1	361.9	377.8	387.7	393.6	409.4	415.3	423.3
35°	447.0	393.6	358.0	373.8	381.7	381.7	381.7	381.7	411.4	439.1	447.0
37.5°	545.9	454.9	425.2	431.2	425.2	419.3	425.2	441.1	466.8	488.5	494.5
40°	640.8	526.1	476.7	472.7	470.7	490.5	526.1	553.8	561.7	541.9	545.9
42.5°	745.6	595.3	532.0	538.0	553.8	585.4	625.0	625.0	625.0	607.2	613.1
45°	844.5	676.4	638.8	654.7	654.7	670.5	692.2	678.4	696.2	704.1	714.0
47.5°	961.2	785.2	702.1	688.3	690.3	721.9	729.8	723.9	735.8	721.9	721.9
50°	996.8	803.0	737.7	791.1	791.1	755.5	725.9	729.8	763.4	801.0	808.9
52.5°	1267.8	994.8	935.5	990.9	1014.6	953.3	953.3	961.2	969.1	996.8	1004.7
55°	1896.7	1418.1	1240.1	1368.7	1386.5	1424.0	1526.9	1511.1	1420.1	1374.6	1370.6
57.5°	2836.2	2104.4	1544.7	1726.6	1841.4	1995.6	2072.8	2027.3	1904.6	1863.1	1817.6
60°	3625.4	2881.7	2001.6	2318.0	2490.1	2515.8	2488.1	2492.1	2399.1	2428.8	2416.9
62.5°	3918.1	3536.4	2573.2	2765.0	2790.7	2711.6	2784.8	2952.9	2802.6	2713.6	2699.7
65°	4005.1	3779.6	2733.4	2608.8	2585.0	2571.2	2859.9	3140.8	2804.6	2596.9	2594.9
67.5°	3918.1	3530.4	2529.6	2323.9	2379.3	2492.1	2867.8	2972.7	2656.2	2426.8	2411.0
70°	3805.3	3128.9	2276.5	2098.5	2227.0	2391.2	2630.5	2589.0	2464.4	2260.7	2250.8
72.5°	3395.9	2711.6	2114.3	1966.0	2112.3	2159.8	2278.5	2260.7	2296.3	2167.7	2161.8
75°	3039.9	2490.1	2017.4	1843.3	1914.5	1906.6	2001.6	2023.3	2124.2	2068.8	2047.1
77.5°	2622.6	2165.7	1778.1	1576.3	1604.0	1602.0	1647.5	1661.4	1732.6	1736.5	1712.8
80°	2053.0	1697.0	1388.4	1186.7	1190.7	1155.1	1161.0	1159.0	1172.9	1188.7	1166.9
82.5°	1178.8	947.4	787.2	658.6	630.9	583.5	573.6	577.5	571.6	567.6	567.6
85°	577.5	449.0	413.4	369.9	354.0	342.2	348.1	360.0	365.9	354.0	348.1
87.5°	389.6	336.2	320.4	302.6	294.7	282.8	290.7	300.6	308.5	298.7	296.7
90°	308.5	267.0	263.1	259.1	253.2	243.3	251.2	263.1	269.0	261.1	257.1
92.5°	249.2	215.6	215.6	213.6	207.7	199.8	209.6	219.5	225.5	219.5	217.6
95°	191.8	166.1	172.1	168.1	162.2	160.2	166.1	174.0	178.0	174.0	174.0
97.5°	148.3	130.5	136.5	134.5	126.6	124.6	128.6	134.5	138.4	134.5	132.5
100°	100.9	93.0	100.9	100.9	93.0	89.0	93.0	98.9	100.9	100.9	98.9
102.5°	67.2	63.3	73.2	75.2	71.2	67.2	69.2	73.2	75.2	75.2	75.2
105°	47.5	47.5	57.4	59.3	55.4	51.4	55.4	57.4	57.4	57.4	57.4
107.5°	37.6	39.6	45.5	49.4	45.5	41.5	43.5	45.5	45.5	45.5	47.5
110°	31.6	31.6	37.6	41.5	37.6	35.6	35.6	35.6	35.6	37.6	41.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	25.7	27.7	31.6	33.6	31.6	29.7	29.7	29.7	29.7	31.6	37.6
115°	21.8	23.7	27.7	27.7	25.7	25.7	25.7	23.7	23.7	25.7	35.6
117.5°	17.8	19.8	21.8	21.8	21.8	19.8	19.8	19.8	19.8	23.7	37.6
120°	15.8	15.8	17.8	17.8	15.8	15.8	15.8	15.8	13.8	19.8	29.7
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

(END OF REPORT)