

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: P588399

Luminaire Tested: **GAT-CA6-LED-120-727-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588399
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-120-727-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10294 lumens
Efficiency: N/A
Efficacy: 86.3 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

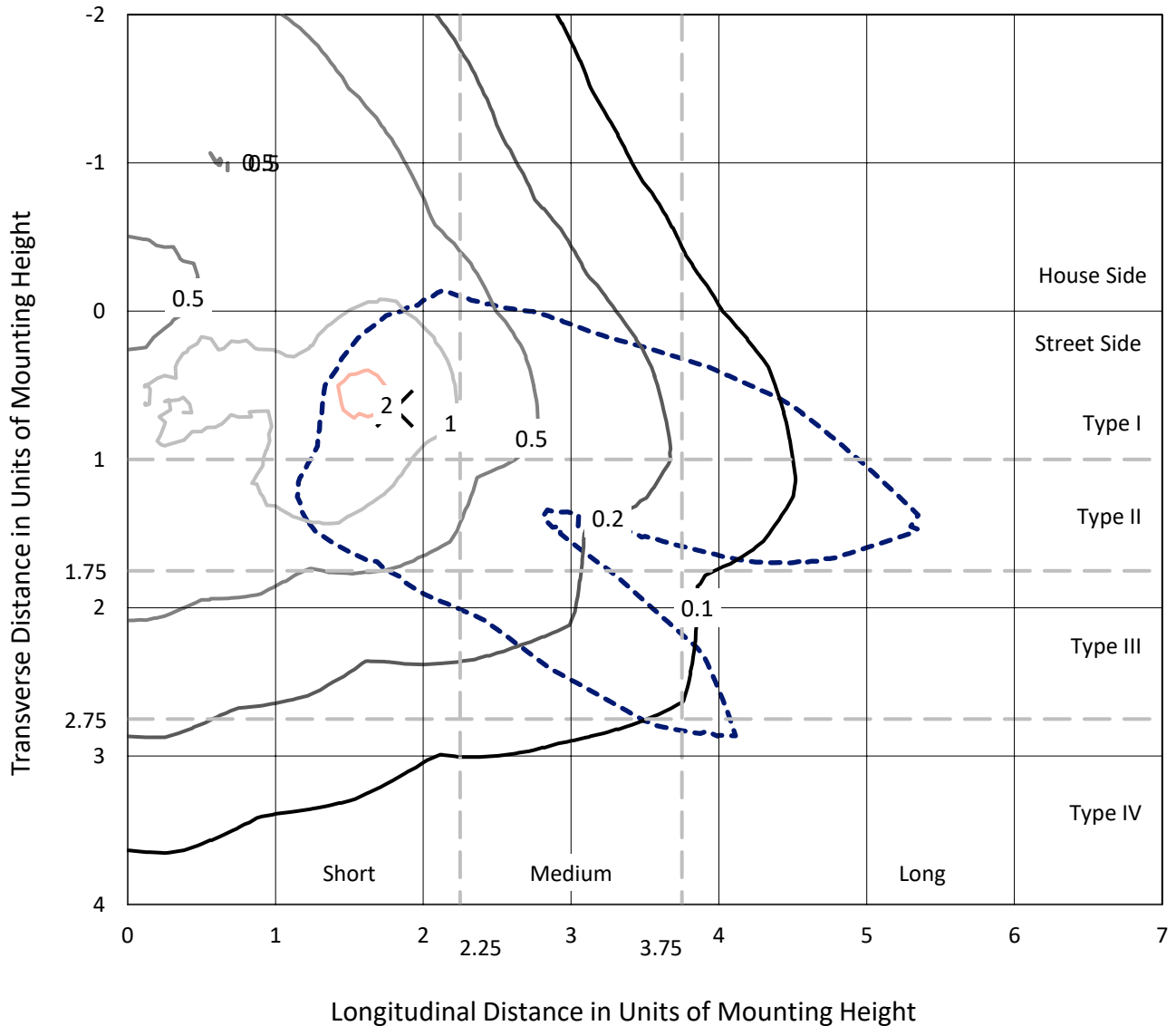
Input Watts (W): 119.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

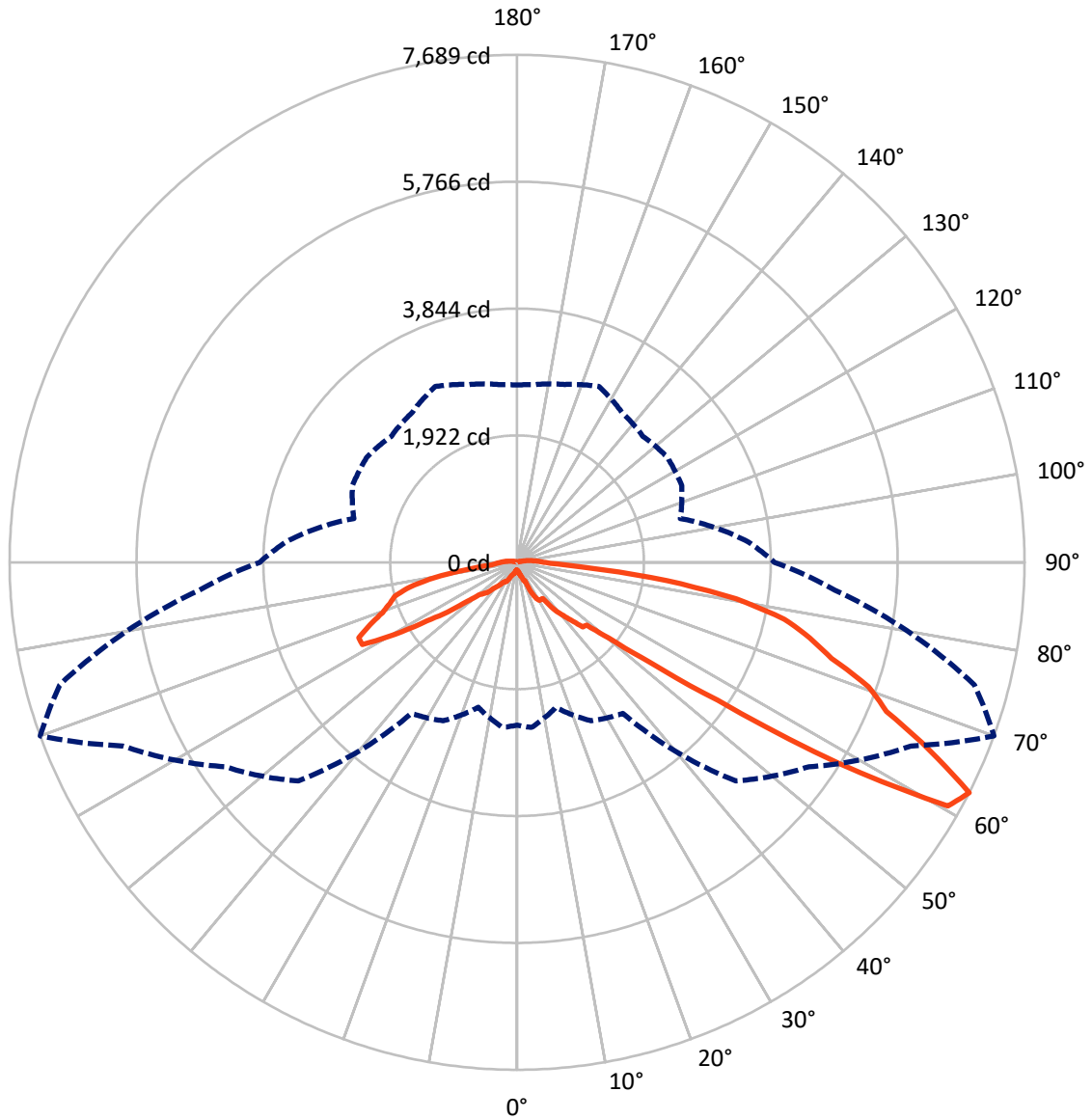
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.2 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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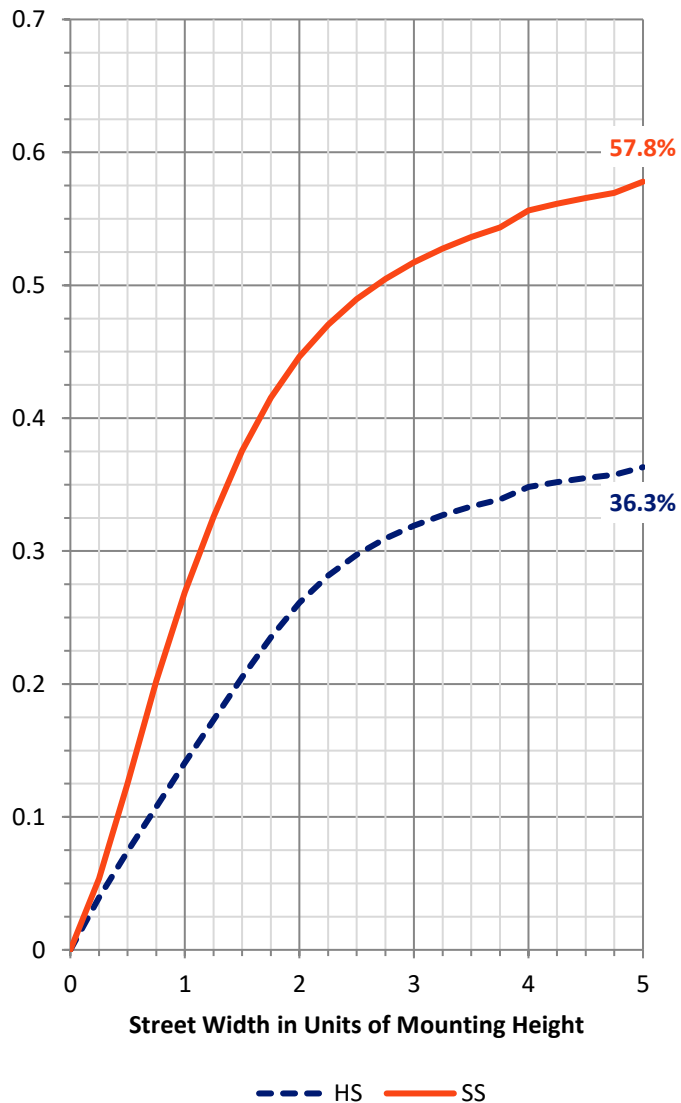
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3815.2	139.9	3955.1
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	6146.8	192.2	6339.0
	% Fixture	59.7	1.9	61.6
Total	Lumens	9962.0	332.1	10294.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.1
10°-20°	56.0	0.5
20°-30°	173.6	1.7
30°-40°	372.4	3.6
40°-50°	697.7	6.8
50°-60°	1810.6	17.6
60°-70°	3316.7	32.2
70°-80°	2660.3	25.8
80°-90°	861.4	8.4
90°-100°	227.0	2.2
100°-110°	73.8	0.7
110°-120°	28.9	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°	9962.0	96.8
0°-180°	10294.0	100.0

Coefficient of Utilization



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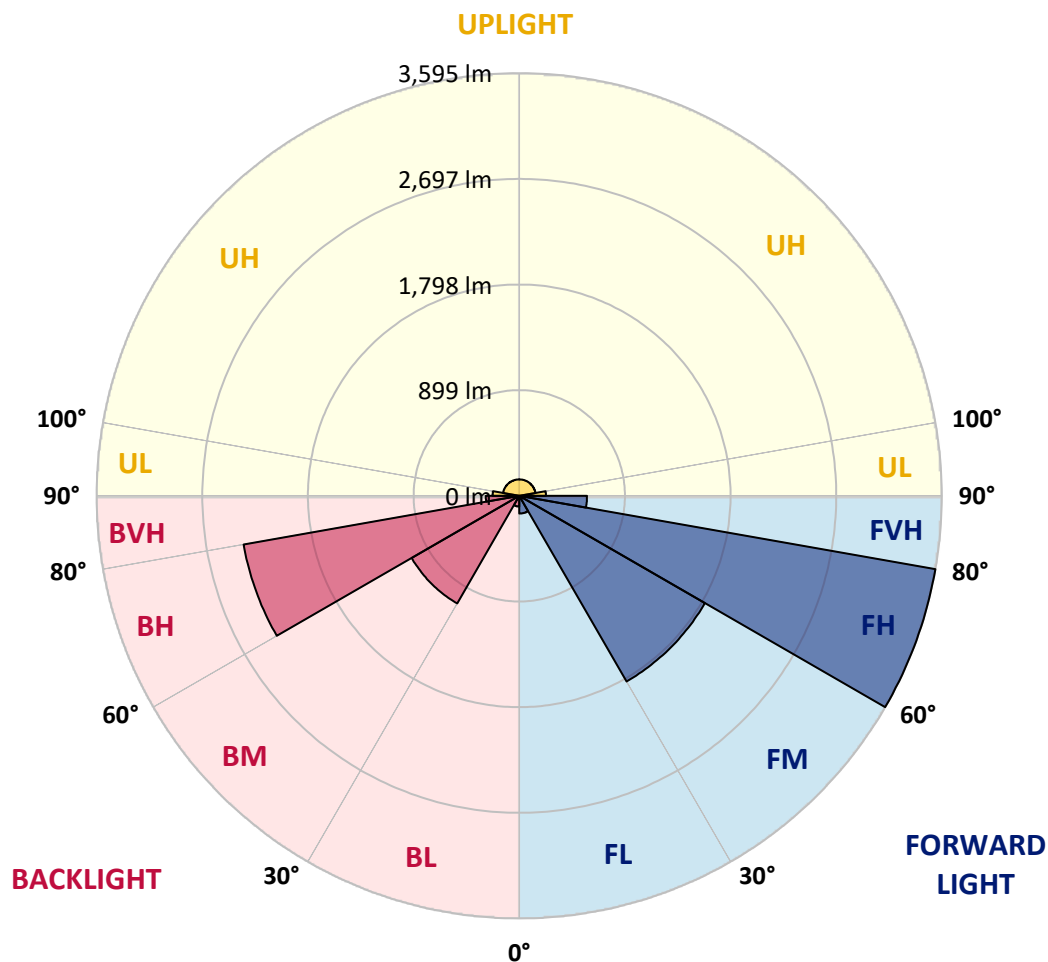
CATALOG NUMBER: GAT-CA6-LED-120-727-U-33-5-6-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.0	1.5			
FM (30°-60°)	1824.0	17.7			
FH (60°-80°)	3595.4	34.9			G2/5000
FVH (80°-90°)	576.3	5.6			G4/750
BL (0°-30°)	91.6	0.9	B0/110		
BM (30°-60°)	1056.8	10.3	B2/2500		
BH (60°-80°)	2381.6	23.1	B3/2500		G3/2500
BVH (80°-90°)	285.1	2.8			G3/500
UL (90°-100°)	227.0	2.2		U3/500	
UH (100°-180°)	139.9	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°	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
2.5°	131.8	131.8	131.8	129.9	127.9	125.9	124.0	124.0	122.0	120.0	118.1
5°	143.7	141.7	139.7	135.8	133.8	133.8	131.8	131.8	131.8	129.9	127.9
7.5°	159.4	159.4	157.4	155.5	153.5	151.5	149.6	147.6	147.6	145.6	143.7
10°	181.0	181.0	181.0	179.1	179.1	177.1	173.2	171.2	167.3	165.3	159.4
12.5°	202.7	204.7	200.7	200.7	200.7	198.8	194.8	192.9	188.9	185.0	177.1
15°	224.3	222.4	220.4	218.4	222.4	222.4	220.4	220.4	212.5	206.6	192.9
17.5°	244.0	244.0	246.0	246.0	251.9	249.9	249.9	248.0	244.0	234.2	216.5
20°	275.5	277.5	277.5	277.5	297.2	305.0	307.0	309.0	303.1	283.4	248.0
22.5°	307.0	309.0	322.7	318.8	318.8	318.8	338.5	328.6	303.1	279.4	259.8
25°	415.2	421.1	425.1	438.8	454.6	497.9	566.8	545.1	505.7	425.1	358.2
27.5°	519.5	527.4	598.2	696.6	710.4	659.2	708.4	643.5	623.8	541.2	486.1
30°	566.8	580.5	702.5	769.4	793.1	726.1	797.0	673.0	667.1	608.1	560.8
32.5°	578.6	588.4	722.2	730.1	736.0	728.1	834.4	682.9	669.1	610.0	541.2
35°	560.8	572.7	663.2	617.9	619.9	759.6	958.4	736.0	673.0	570.7	493.9
37.5°	690.7	690.7	767.5	779.3	830.4	999.7	1255.5	972.1	901.3	743.9	649.4
40°	787.2	797.0	919.0	964.3	972.1	1115.8	1572.3	1139.4	1039.0	832.4	759.6
42.5°	917.0	915.1	1027.2	1058.7	1080.4	1133.5	1607.8	1310.6	1192.5	942.6	887.5
45°	938.7	970.2	1072.5	1037.1	1064.6	1200.4	1678.6	1552.7	1395.2	1151.2	1037.1
47.5°	852.1	895.4	1102.0	1072.5	962.3	1025.3	1346.0	1594.0	1420.8	1182.7	1102.0
50°	919.0	942.6	1044.9	1025.3	877.7	1090.2	1477.9	1997.4	1804.6	1407.0	1200.4
52.5°	1188.6	1239.8	1257.5	1334.2	1263.4	1631.4	2068.2	2530.7	2505.1	2036.8	1584.1
55°	1527.1	1601.9	1680.6	1971.8	2013.1	2562.2	2886.9	3380.8	3687.8	3221.4	2430.3
57.5°	1893.1	1999.4	1973.8	2396.9	2461.8	3471.4	3770.5	4927.6	5748.2	5114.5	3559.9
60°	2247.3	2318.2	2174.5	2546.4	2670.4	4370.7	4809.5	6417.3	7497.6	6822.7	4384.4
62.5°	2465.8	2511.0	2274.9	2648.8	2794.4	4683.6	5397.9	6584.5	7688.5	7174.9	4831.2
65°	2463.8	2452.0	2182.4	2507.1	2487.4	4323.4	5216.9	5533.7	6867.9	6781.3	4888.2
67.5°	2367.4	2371.3	2087.9	2345.7	2265.0	3811.8	4833.1	4681.6	6037.5	6153.6	4754.4
70°	2274.9	2322.1	2052.5	2276.8	2239.5	3666.2	4665.9	4213.2	5647.8	5868.2	4612.7
72.5°	2145.0	2190.3	1936.4	2133.2	2147.0	3374.9	4380.5	3678.0	4980.7	5246.4	4134.5
75°	2143.0	2200.1	1962.0	2135.2	2156.8	3209.6	4415.9	3493.0	4581.2	4937.4	3859.0
77.5°	2021.0	2072.2	1851.8	2013.1	2074.2	2904.6	4213.2	3262.8	4138.5	4537.9	3498.9
80°	1623.5	1692.4	1511.3	1617.6	1651.1	2178.4	3378.9	2672.4	3367.1	3766.5	2859.3
82.5°	1109.9	1172.9	1052.8	1131.5	1174.8	1428.7	2335.9	1924.6	2288.7	2532.7	1790.8
85°	641.5	716.3	645.5	635.6	657.3	753.7	1257.5	1023.3	1064.6	1119.7	795.0
87.5°	403.4	415.2	379.8	381.8	385.7	413.3	572.7	456.5	503.8	570.7	482.1
90°	320.8	332.6	307.0	309.0	303.1	328.6	429.0	348.3	387.7	446.7	381.8
92.5°	277.5	285.3	267.6	271.6	267.6	287.3	358.2	287.3	318.8	366.0	312.9
95°	236.1	242.0	232.2	234.2	222.4	234.2	279.4	218.4	242.0	275.5	234.2
97.5°	188.9	194.8	188.9	188.9	177.1	183.0	214.5	169.2	185.0	206.6	177.1
100°	149.6	151.5	149.6	147.6	137.8	137.8	149.6	122.0	127.9	141.7	122.0
102.5°	114.1	116.1	114.1	112.2	100.4	94.5	94.5	78.7	82.7	86.6	76.7
105°	90.5	92.5	90.5	86.6	76.7	70.8	68.9	57.1	57.1	59.0	53.1
107.5°	74.8	74.8	74.8	70.8	64.9	57.1	51.2	41.3	41.3	43.3	41.3
110°	61.0	61.0	59.0	57.1	51.2	45.3	39.4	33.5	33.5	33.5	31.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	51.2	51.2	49.2	47.2	41.3	35.4	31.5	27.6	27.6	27.6	25.6
115°	43.3	43.3	41.3	39.4	35.4	29.5	25.6	21.6	21.6	21.6	21.6
117.5°	37.4	37.4	35.4	33.5	29.5	25.6	21.6	17.7	17.7	17.7	17.7
120°	33.5	31.5	29.5	27.6	23.6	21.6	17.7	15.7	15.7	15.7	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°	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
2.5°	118.1	118.1	116.1	116.1	116.1	114.1	114.1	116.1	116.1	116.1	116.1
5°	125.9	124.0	120.0	116.1	114.1	112.2	110.2	110.2	114.1	114.1	114.1
7.5°	141.7	139.7	133.8	129.9	125.9	122.0	120.0	118.1	120.0	122.0	122.0
10°	157.4	155.5	147.6	141.7	139.7	135.8	133.8	131.8	133.8	133.8	133.8
12.5°	173.2	169.2	163.3	155.5	151.5	149.6	147.6	145.6	145.6	145.6	145.6
15°	186.9	181.0	175.1	169.2	165.3	161.4	159.4	157.4	159.4	161.4	161.4
17.5°	208.6	202.7	188.9	179.1	177.1	173.2	171.2	171.2	173.2	175.1	175.1
20°	232.2	220.4	204.7	194.8	192.9	186.9	185.0	185.0	186.9	188.9	188.9
22.5°	251.9	244.0	220.4	206.6	204.7	202.7	204.7	204.7	206.6	208.6	208.6
25°	320.8	289.3	255.8	246.0	244.0	240.1	236.1	234.2	236.1	242.0	244.0
27.5°	432.9	375.9	312.9	291.2	291.2	295.2	303.1	307.0	299.1	295.2	297.2
30°	507.7	431.0	340.4	320.8	324.7	344.4	362.1	373.9	366.0	360.1	362.1
32.5°	488.0	417.2	352.3	348.3	360.1	375.9	385.7	391.6	407.4	413.3	421.1
35°	444.7	391.6	356.2	371.9	379.8	379.8	379.8	379.8	409.3	436.9	444.7
37.5°	543.1	452.6	423.1	429.0	423.1	417.2	423.1	438.8	464.4	486.1	492.0
40°	637.6	523.5	474.3	470.3	468.4	488.0	523.5	551.0	558.9	539.2	543.1
42.5°	741.9	592.3	529.4	535.3	551.0	582.5	621.9	621.9	621.9	604.1	610.0
45°	840.3	673.0	635.6	651.4	651.4	667.1	688.8	675.0	692.7	700.6	710.4
47.5°	956.4	781.3	698.6	684.8	686.8	718.3	726.1	720.2	732.1	718.3	718.3
50°	991.8	799.0	734.0	787.2	787.2	751.7	722.2	726.1	759.6	797.0	804.9
52.5°	1261.4	989.8	930.8	985.9	1009.5	948.5	948.5	956.4	964.3	991.8	999.7
55°	1887.2	1411.0	1233.9	1361.8	1379.5	1416.9	1519.2	1503.5	1412.9	1367.7	1363.7
57.5°	2821.9	2093.8	1536.9	1718.0	1832.1	1985.6	2062.3	2017.1	1895.1	1853.7	1808.5
60°	3607.1	2867.2	1991.5	2306.4	2477.6	2503.2	2475.6	2479.5	2387.0	2416.6	2404.8
62.5°	3898.4	3518.6	2560.2	2751.1	2776.7	2698.0	2770.8	2938.1	2788.5	2699.9	2686.2
65°	3985.0	3760.6	2719.6	2595.6	2572.0	2558.3	2845.6	3125.0	2790.5	2583.8	2581.9
67.5°	3898.4	3512.7	2516.9	2312.3	2367.4	2479.5	2853.4	2957.7	2642.9	2414.6	2398.9
70°	3786.2	3113.2	2265.0	2087.9	2215.8	2379.2	2617.3	2576.0	2452.0	2249.3	2239.5
72.5°	3378.9	2698.0	2103.7	1956.1	2101.7	2148.9	2267.0	2249.3	2284.7	2156.8	2150.9
75°	3024.6	2477.6	2007.2	1834.1	1904.9	1897.0	1991.5	2013.1	2113.5	2058.4	2036.8
77.5°	2609.4	2154.8	1769.1	1568.4	1596.0	1594.0	1639.2	1653.0	1723.9	1727.8	1704.2
80°	2042.7	1688.4	1381.5	1180.7	1184.7	1149.2	1155.1	1153.2	1167.0	1182.7	1161.1
82.5°	1172.9	942.6	783.2	655.3	627.8	580.5	570.7	574.6	568.7	564.8	564.8
85°	574.6	446.7	411.3	368.0	352.3	340.4	346.3	358.2	364.1	352.3	346.3
87.5°	387.7	334.5	318.8	301.1	293.2	281.4	289.3	299.1	307.0	297.2	295.2
90°	307.0	265.7	261.7	257.8	251.9	242.0	249.9	261.7	267.6	259.8	255.8
92.5°	248.0	214.5	214.5	212.5	206.6	198.8	208.6	218.4	224.3	218.4	216.5
95°	190.9	165.3	171.2	167.3	161.4	159.4	165.3	173.2	177.1	173.2	173.2
97.5°	147.6	129.9	135.8	133.8	125.9	124.0	127.9	133.8	137.8	133.8	131.8
100°	100.4	92.5	100.4	100.4	92.5	88.6	92.5	98.4	100.4	100.4	98.4
102.5°	66.9	63.0	72.8	74.8	70.8	66.9	68.9	72.8	74.8	74.8	74.8
105°	47.2	47.2	57.1	59.0	55.1	51.2	55.1	57.1	57.1	57.1	57.1
107.5°	37.4	39.4	45.3	49.2	45.3	41.3	43.3	45.3	45.3	45.3	47.2
110°	31.5	31.5	37.4	41.3	37.4	35.4	35.4	35.4	35.4	37.4	41.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	25.6	27.6	31.5	33.5	31.5	29.5	29.5	29.5	29.5	31.5	37.4
115°	21.6	23.6	27.6	27.6	25.6	25.6	25.6	23.6	23.6	25.6	35.4
117.5°	17.7	19.7	21.6	21.6	21.6	19.7	19.7	19.7	19.7	23.6	37.4
120°	15.7	15.7	17.7	17.7	15.7	15.7	15.7	15.7	13.8	19.7	29.5
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)