

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: P588375

Luminaire Tested: **GAT-CA6-LED-110-727-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588375
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-110-727-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: 9499 lumens
Efficiency: N/A
Efficacy: 84.7 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

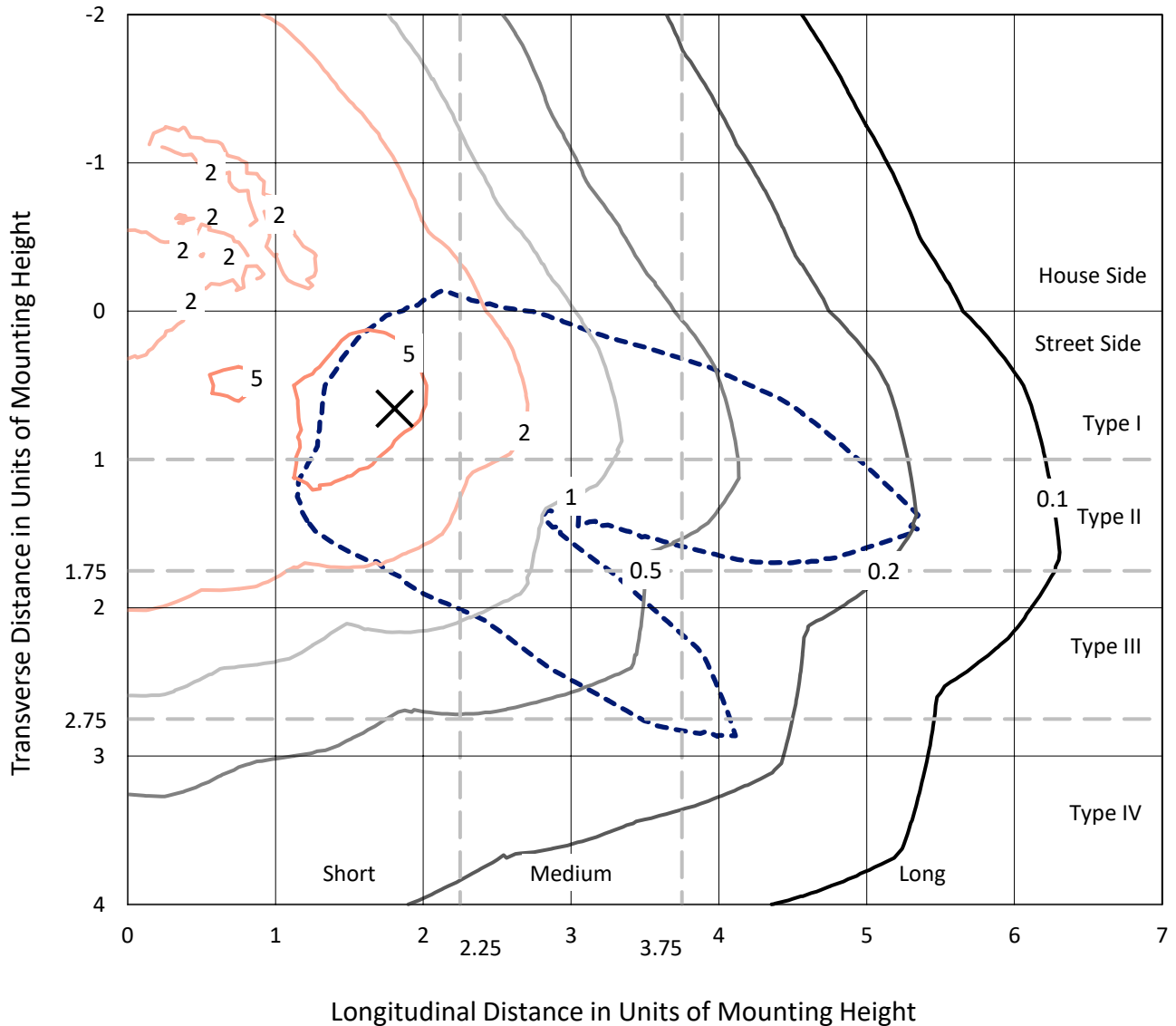
Input Watts (W): 112.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

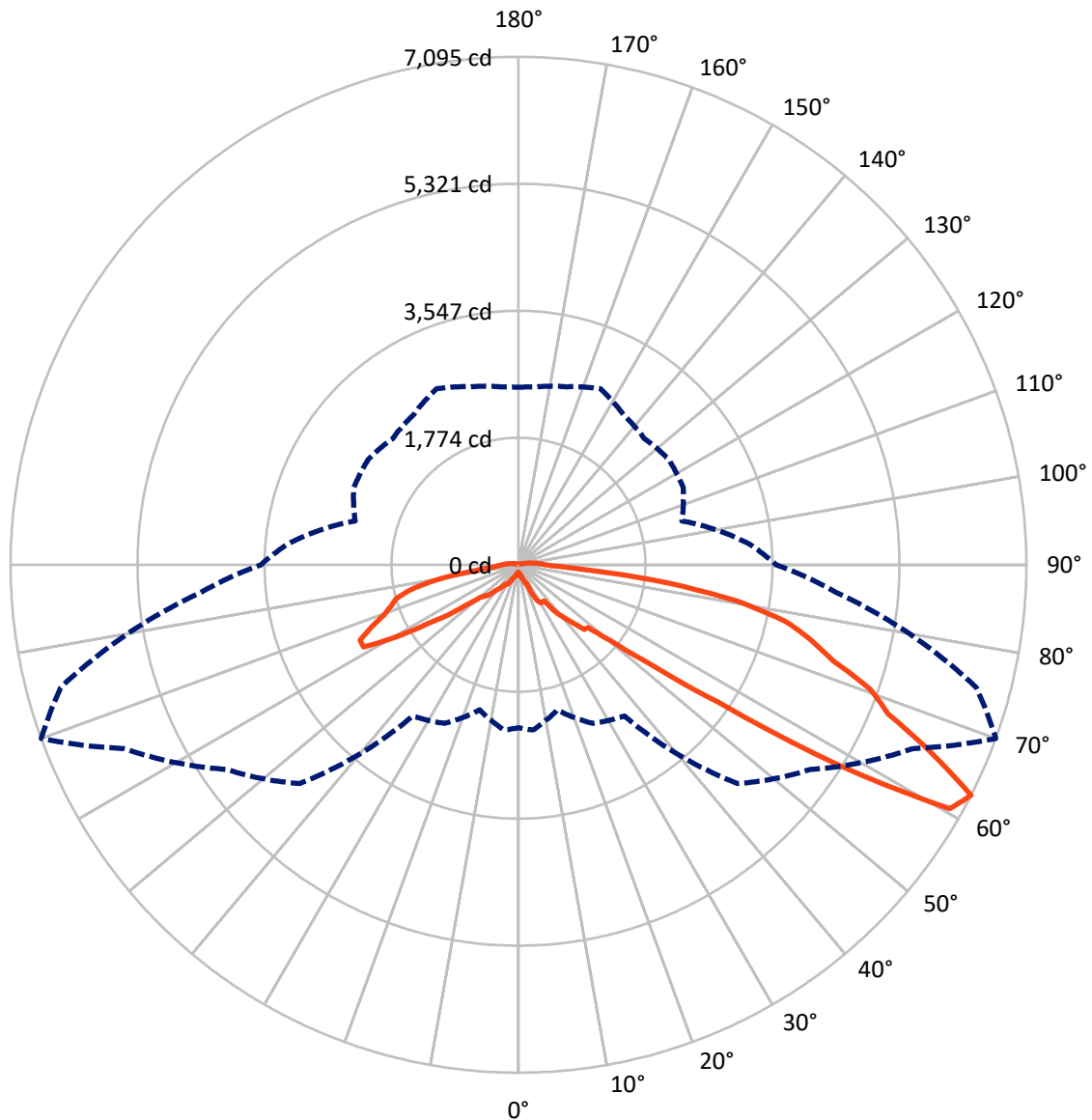
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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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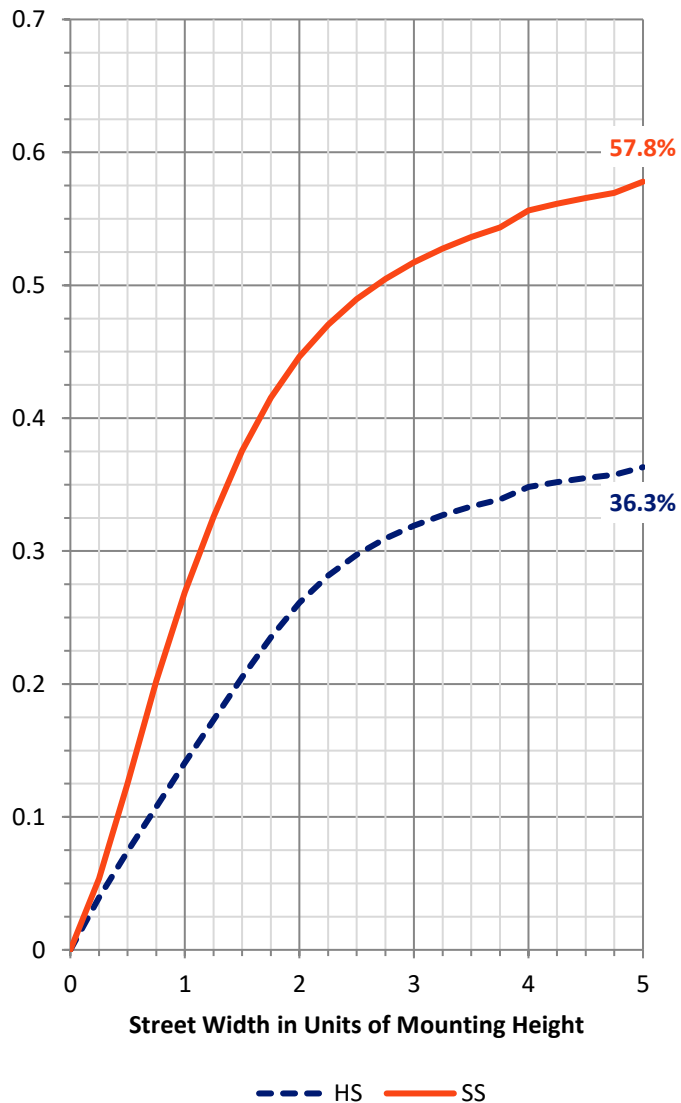
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3520.6	129.1	3649.6
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	5672.0	177.3	5849.4
	% Fixture	59.7	1.9	61.6
Total	Lumens	9192.6	306.4	9499.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.1
10°-20°	51.7	0.5
20°-30°	160.2	1.7
30°-40°	343.7	3.6
40°-50°	643.8	6.8
50°-60°	1670.8	17.6
60°-70°	3060.6	32.2
70°-80°	2454.9	25.8
80°-90°	794.9	8.4
90°-100°	209.5	2.2
100°-110°	68.1	0.7
110°-120°	26.7	0.3
120°-130°	2.1	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°	9192.6	96.8
0°-180°	9499.0	100.0

Coefficient of Utilization

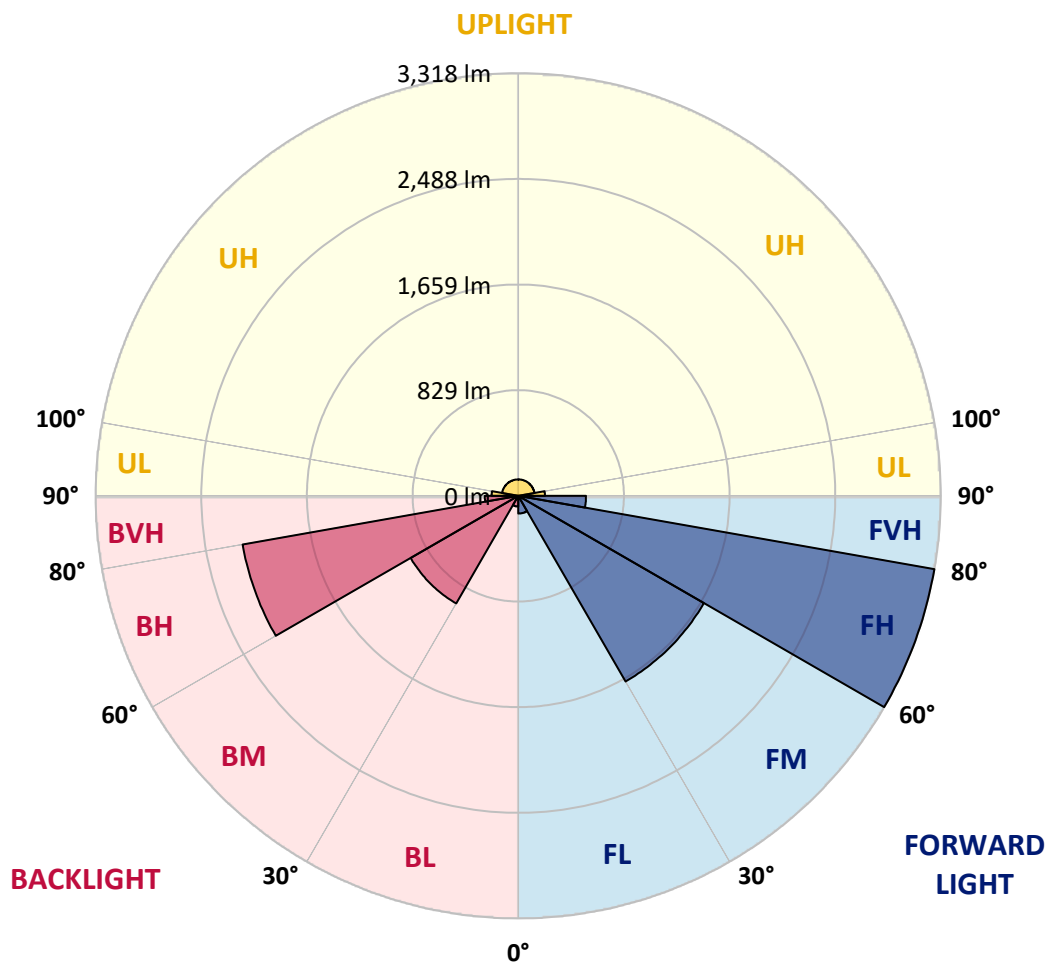


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.4	1.5			
FM (30°-60°)	1683.1	17.7			
FH (60°-80°)	3317.8	34.9			G2/5000
FVH (80°-90°)	531.8	5.6			G4/750
BL (0°-30°)	84.6	0.9	B0/110		
BM (30°-60°)	975.2	10.3	B1/1000		
BH (60°-80°)	2197.7	23.1	B3/2500		G3/2500
BVH (80°-90°)	263.1	2.8			G3/500
UL (90°-100°)	209.5	2.2		U3/500	
UH (100°-180°)	129.1	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°	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6
2.5°	121.7	121.7	121.7	119.8	118.0	116.2	114.4	114.4	112.6	110.8	109.0
5°	132.6	130.7	128.9	125.3	123.5	123.5	121.7	121.7	121.7	119.8	118.0
7.5°	147.1	147.1	145.3	143.5	141.6	139.8	138.0	136.2	136.2	134.4	132.6
10°	167.1	167.1	167.1	165.2	165.2	163.4	159.8	158.0	154.4	152.5	147.1
12.5°	187.0	188.9	185.2	185.2	185.2	183.4	179.8	178.0	174.3	170.7	163.4
15°	207.0	205.2	203.4	201.6	205.2	205.2	203.4	203.4	196.1	190.7	178.0
17.5°	225.2	225.2	227.0	227.0	232.4	230.6	230.6	228.8	225.2	216.1	199.7
20°	254.2	256.0	256.0	256.0	274.2	281.5	283.3	285.1	279.6	261.5	228.8
22.5°	283.3	285.1	297.8	294.2	294.2	294.2	312.3	303.3	279.6	257.9	239.7
25°	383.2	388.6	392.2	404.9	419.5	459.4	523.0	503.0	466.7	392.2	330.5
27.5°	479.4	486.7	552.0	642.8	655.5	608.3	653.7	593.8	575.6	499.4	448.5
30°	523.0	535.7	648.3	710.0	731.8	670.1	735.4	621.0	615.6	561.1	517.5
32.5°	533.9	543.0	666.4	673.7	679.1	671.9	769.9	630.1	617.4	562.9	499.4
35°	517.5	528.4	612.0	570.2	572.0	700.9	884.3	679.1	621.0	526.6	455.8
37.5°	637.4	637.4	708.2	719.1	766.3	922.5	1158.5	897.1	831.7	686.4	599.2
40°	726.4	735.4	848.0	889.8	897.1	1029.6	1450.9	1051.4	958.8	768.1	700.9
42.5°	846.2	844.4	947.9	977.0	996.9	1046.0	1483.6	1209.4	1100.4	869.8	819.0
45°	866.2	895.2	989.7	957.0	982.4	1107.7	1549.0	1432.8	1287.5	1062.3	957.0
47.5°	786.3	826.2	1016.9	989.7	888.0	946.1	1242.1	1470.9	1311.1	1091.4	1016.9
50°	848.0	869.8	964.2	946.1	809.9	1006.0	1363.7	1843.1	1665.2	1298.4	1107.7
52.5°	1096.8	1144.0	1160.4	1231.2	1165.8	1505.4	1908.5	2335.3	2311.6	1879.5	1461.8
55°	1409.1	1478.1	1550.8	1819.5	1857.7	2364.3	2663.9	3119.7	3403.0	2972.6	2242.6
57.5°	1746.9	1845.0	1821.4	2211.8	2271.7	3203.3	3479.3	4547.0	5304.3	4719.5	3285.0
60°	2073.8	2139.1	2006.6	2349.8	2464.2	4033.1	4438.1	5921.7	6918.6	6295.7	4045.8
62.5°	2275.3	2317.1	2099.2	2444.2	2578.6	4321.9	4981.0	6076.0	7094.7	6620.8	4458.1
65°	2273.5	2262.6	2013.8	2313.5	2295.3	3989.5	4814.0	5106.3	6337.5	6257.6	4510.7
67.5°	2184.5	2188.2	1926.7	2164.6	2090.1	3517.4	4459.9	4320.0	5571.2	5678.3	4387.2
70°	2099.2	2142.8	1894.0	2101.0	2066.5	3383.0	4305.5	3887.9	5211.7	5415.0	4256.5
72.5°	1979.3	2021.1	1786.9	1968.4	1981.2	3114.3	4042.2	3393.9	4596.1	4841.2	3815.2
75°	1977.5	2030.2	1810.5	1970.3	1990.2	2961.7	4074.9	3223.2	4227.4	4556.1	3561.0
77.5°	1864.9	1912.1	1708.8	1857.7	1914.0	2680.3	3887.9	3010.8	3818.9	4187.5	3228.7
80°	1498.1	1561.7	1394.6	1492.7	1523.5	2010.2	3117.9	2466.0	3107.0	3475.6	2638.5
82.5°	1024.2	1082.3	971.5	1044.1	1084.1	1318.3	2155.5	1776.0	2111.9	2337.1	1652.5
85°	592.0	661.0	595.6	586.5	606.5	695.5	1160.4	944.3	982.4	1033.3	733.6
87.5°	372.3	383.2	350.5	352.3	355.9	381.3	528.4	421.3	464.9	526.6	444.9
90°	296.0	306.9	283.3	285.1	279.6	303.3	395.9	321.4	357.7	412.2	352.3
92.5°	256.0	263.3	247.0	250.6	247.0	265.1	330.5	265.1	294.2	337.8	288.7
95°	217.9	223.4	214.3	216.1	205.2	216.1	257.9	201.6	223.4	254.2	216.1
97.5°	174.3	179.8	174.3	174.3	163.4	168.9	197.9	156.2	170.7	190.7	163.4
100°	138.0	139.8	138.0	136.2	127.1	127.1	138.0	112.6	118.0	130.7	112.6
102.5°	105.3	107.1	105.3	103.5	92.6	87.2	87.2	72.6	76.3	79.9	70.8
105°	83.5	85.3	83.5	79.9	70.8	65.4	63.6	52.7	52.7	54.5	49.0
107.5°	69.0	69.0	69.0	65.4	59.9	52.7	47.2	38.1	38.1	39.9	38.1
110°	56.3	56.3	54.5	52.7	47.2	41.8	36.3	30.9	30.9	30.9	29.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	47.2	47.2	45.4	43.6	38.1	32.7	29.1	25.4	25.4	25.4	23.6
115°	39.9	39.9	38.1	36.3	32.7	27.2	23.6	20.0	20.0	20.0	20.0
117.5°	34.5	34.5	32.7	30.9	27.2	23.6	20.0	16.3	16.3	16.3	16.3
120°	30.9	29.1	27.2	25.4	21.8	20.0	16.3	14.5	14.5	14.5	12.7
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°	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6
2.5°	109.0	109.0	107.1	107.1	107.1	105.3	105.3	107.1	107.1	107.1	107.1
5°	116.2	114.4	110.8	107.1	105.3	103.5	101.7	101.7	105.3	105.3	105.3
7.5°	130.7	128.9	123.5	119.8	116.2	112.6	110.8	109.0	110.8	112.6	112.6
10°	145.3	143.5	136.2	130.7	128.9	125.3	123.5	121.7	123.5	123.5	123.5
12.5°	159.8	156.2	150.7	143.5	139.8	138.0	136.2	134.4	134.4	134.4	134.4
15°	172.5	167.1	161.6	156.2	152.5	148.9	147.1	145.3	147.1	148.9	148.9
17.5°	192.5	187.0	174.3	165.2	163.4	159.8	158.0	158.0	159.8	161.6	161.6
20°	214.3	203.4	188.9	179.8	178.0	172.5	170.7	170.7	172.5	174.3	174.3
22.5°	232.4	225.2	203.4	190.7	188.9	187.0	188.9	188.9	190.7	192.5	192.5
25°	296.0	266.9	236.1	227.0	225.2	221.5	217.9	216.1	217.9	223.4	225.2
27.5°	399.5	346.8	288.7	268.8	268.8	272.4	279.6	283.3	276.0	272.4	274.2
30°	468.5	397.7	314.2	296.0	299.6	317.8	334.1	345.0	337.8	332.3	334.1
32.5°	450.3	385.0	325.0	321.4	332.3	346.8	355.9	361.4	375.9	381.3	388.6
35°	410.4	361.4	328.7	343.2	350.5	350.5	350.5	350.5	377.7	403.1	410.4
37.5°	501.2	417.7	390.4	395.9	390.4	385.0	390.4	404.9	428.6	448.5	454.0
40°	588.4	483.0	437.6	434.0	432.2	450.3	483.0	508.5	515.7	497.6	501.2
42.5°	684.6	546.6	488.5	493.9	508.5	537.5	573.8	573.8	573.8	557.5	562.9
45°	775.4	621.0	586.5	601.1	601.1	615.6	635.6	622.9	639.2	646.5	655.5
47.5°	882.5	720.9	644.6	631.9	633.8	662.8	670.1	664.6	675.5	662.8	662.8
50°	915.2	737.3	677.3	726.4	726.4	693.7	666.4	670.1	700.9	735.4	742.7
52.5°	1164.0	913.4	858.9	909.8	931.6	875.3	875.3	882.5	889.8	915.2	922.5
55°	1741.5	1302.0	1138.6	1256.6	1273.0	1307.5	1401.9	1387.4	1303.8	1262.1	1258.4
57.5°	2604.0	1932.1	1418.2	1585.3	1690.6	1832.3	1903.1	1861.3	1748.7	1710.6	1668.8
60°	3328.6	2645.8	1837.7	2128.2	2286.2	2309.8	2284.4	2288.0	2202.7	2229.9	2219.0
62.5°	3597.3	3246.8	2362.5	2538.6	2562.2	2489.6	2556.8	2711.1	2573.1	2491.4	2478.7
65°	3677.2	3470.2	2509.6	2395.2	2373.4	2360.7	2625.8	2883.7	2575.0	2384.3	2382.5
67.5°	3597.3	3241.4	2322.5	2133.7	2184.5	2288.0	2633.1	2729.3	2438.8	2228.1	2213.6
70°	3493.8	2872.8	2090.1	1926.7	2044.7	2195.4	2415.2	2377.0	2262.6	2075.6	2066.5
72.5°	3117.9	2489.6	1941.2	1805.0	1939.4	1983.0	2091.9	2075.6	2108.3	1990.2	1984.8
75°	2791.0	2286.2	1852.2	1692.4	1757.8	1750.5	1837.7	1857.7	1950.3	1899.4	1879.5
77.5°	2407.9	1988.4	1632.5	1447.3	1472.7	1470.9	1512.7	1525.4	1590.7	1594.4	1572.6
80°	1884.9	1558.0	1274.8	1089.5	1093.2	1060.5	1065.9	1064.1	1076.8	1091.4	1071.4
82.5°	1082.3	869.8	722.7	604.7	579.3	535.7	526.6	530.2	524.8	521.2	521.2
85°	530.2	412.2	379.5	339.6	325.0	314.2	319.6	330.5	335.9	325.0	319.6
87.5°	357.7	308.7	294.2	277.8	270.6	259.7	266.9	276.0	283.3	274.2	272.4
90°	283.3	245.1	241.5	237.9	232.4	223.4	230.6	241.5	247.0	239.7	236.1
92.5°	228.8	197.9	197.9	196.1	190.7	183.4	192.5	201.6	207.0	201.6	199.7
95°	176.1	152.5	158.0	154.4	148.9	147.1	152.5	159.8	163.4	159.8	159.8
97.5°	136.2	119.8	125.3	123.5	116.2	114.4	118.0	123.5	127.1	123.5	121.7
100°	92.6	85.3	92.6	92.6	85.3	81.7	85.3	90.8	92.6	92.6	90.8
102.5°	61.7	58.1	67.2	69.0	65.4	61.7	63.6	67.2	69.0	69.0	69.0
105°	43.6	43.6	52.7	54.5	50.8	47.2	50.8	52.7	52.7	52.7	52.7
107.5°	34.5	36.3	41.8	45.4	41.8	38.1	39.9	41.8	41.8	41.8	43.6
110°	29.1	29.1	34.5	38.1	34.5	32.7	32.7	32.7	32.7	34.5	38.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.6	25.4	29.1	30.9	29.1	27.2	27.2	27.2	27.2	29.1	34.5
115°	20.0	21.8	25.4	25.4	23.6	23.6	23.6	21.8	21.8	23.6	32.7
117.5°	16.3	18.2	20.0	20.0	20.0	18.2	18.2	18.2	18.2	21.8	34.5
120°	14.5	14.5	16.3	16.3	14.5	14.5	14.5	14.5	12.7	18.2	27.2
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)