

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: P192927

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56463 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
Input Voltage (V): NR
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: 25 FT



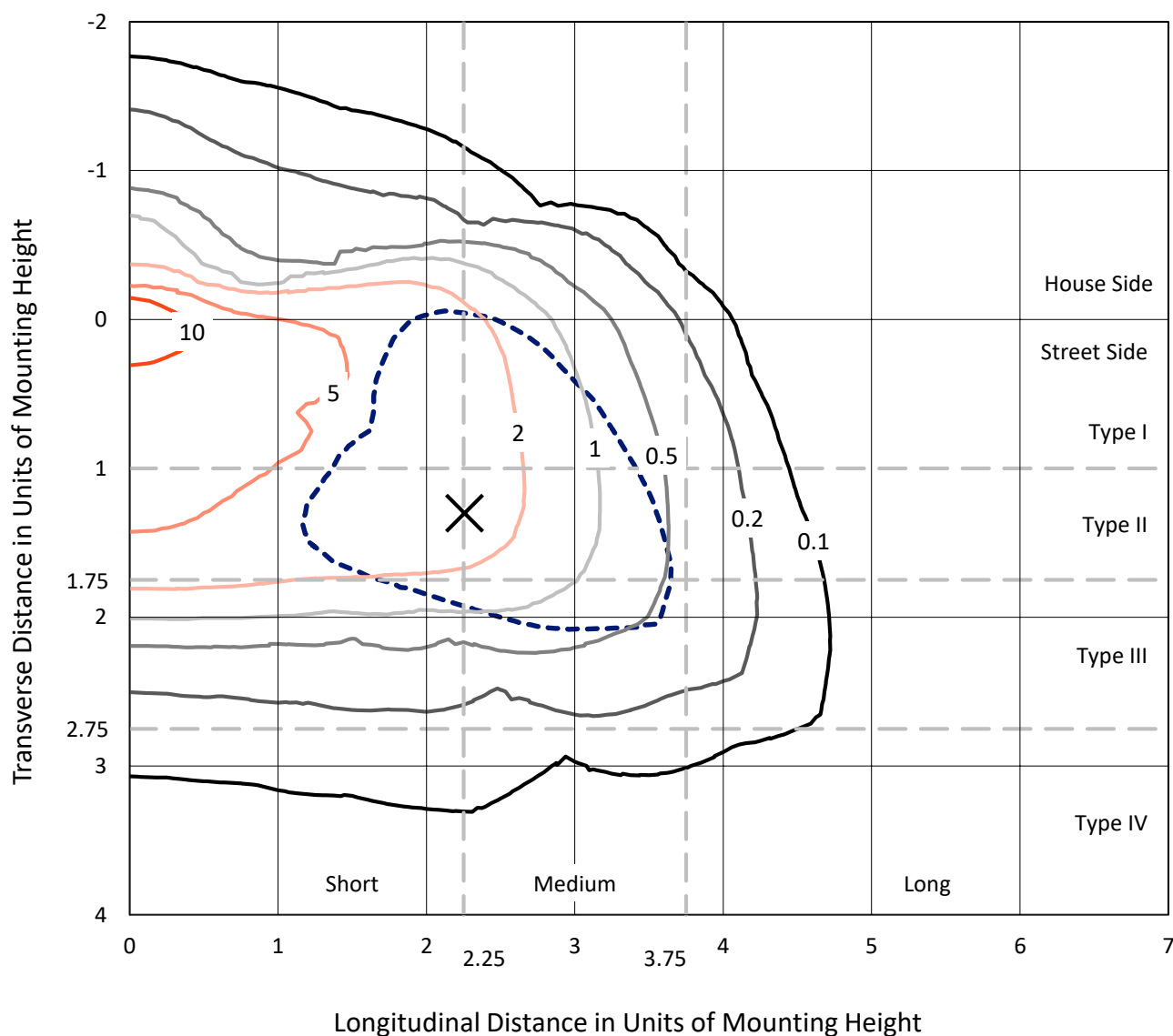
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

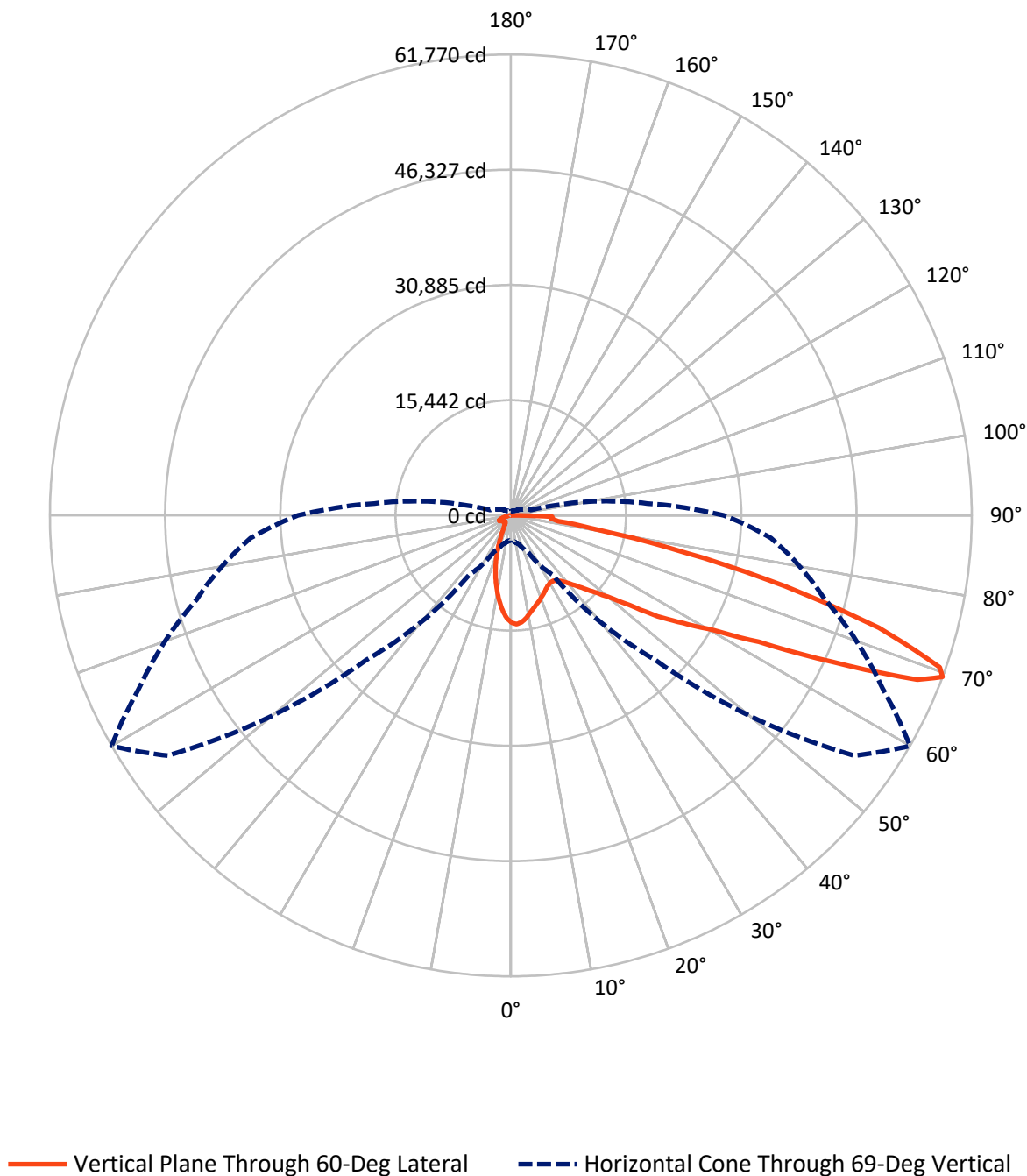


Based on 30 foot mounting height. Maximum calculated value = 16 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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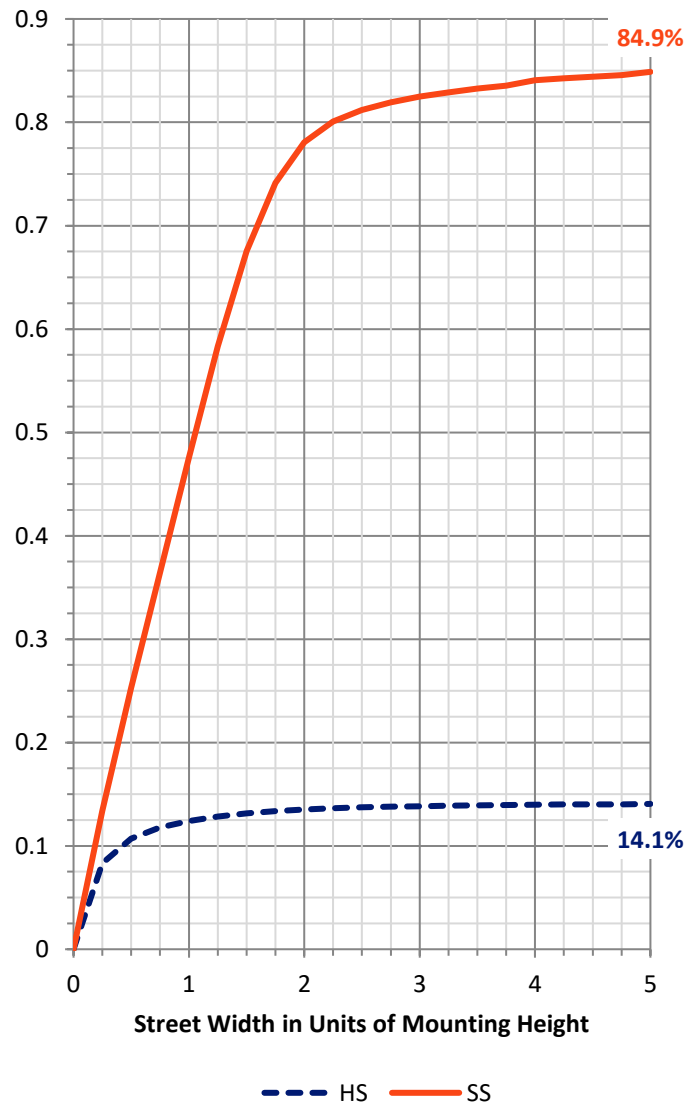
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8032.9	0.0	8032.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	48430.1	0.0	48430.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	56463.0	0.0	56463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.5	2.2
10°-20°	2591.9	4.6
20°-30°	3302.5	5.8
30°-40°	4540.1	8.0
40°-50°	7366.8	13.0
50°-60°	11814.5	20.9
60°-70°	15724.2	27.8
70°-80°	8489.9	15.0
80°-90°	1416.6	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	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°	56463.0	100.0
0°-180°	56463.0	100.0

Coefficient of Utilization



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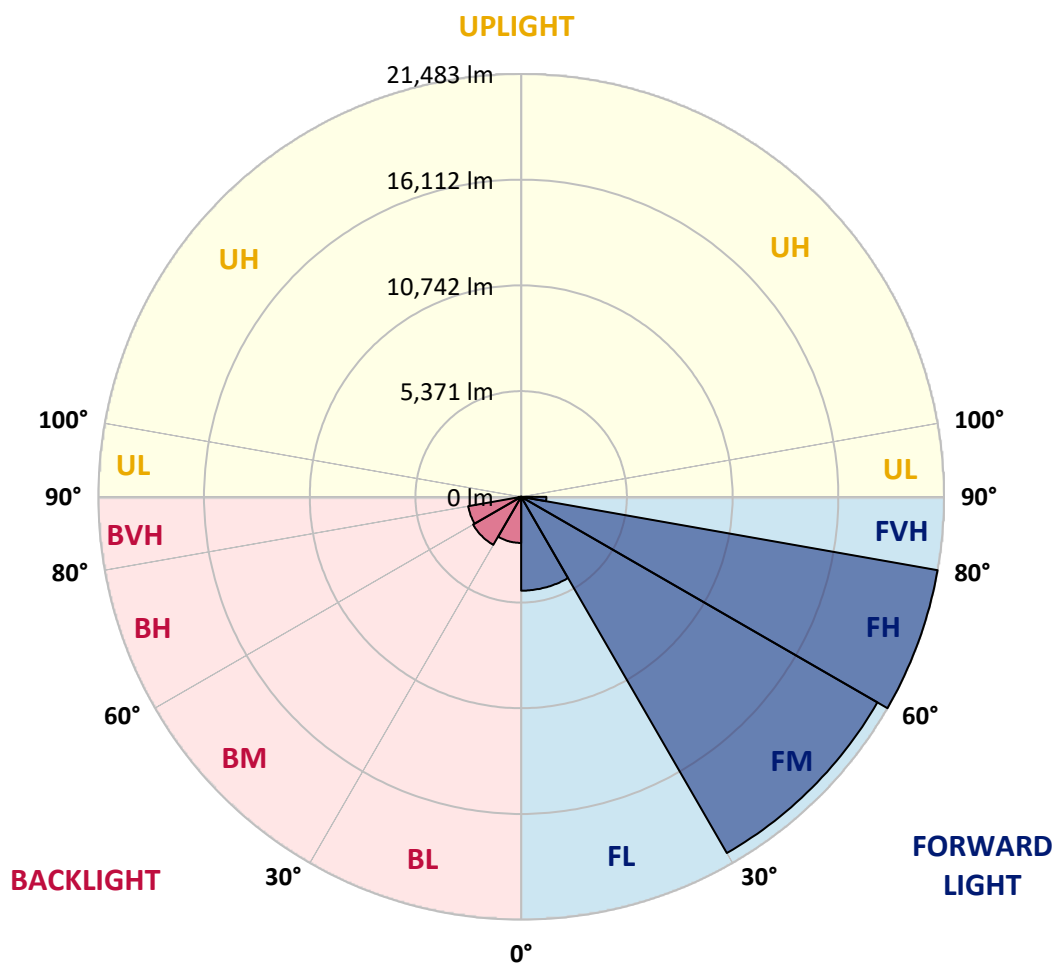
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4767.5	8.4			
FM	(30°-60°)	20899.3	37.0			
FH	(60°-80°)	21483.1	38.0			G5
FVH	(80°-90°)	1280.2	2.3			G5
BL	(0°-30°)	2343.4	4.2	B3/2500		
BM	(30°-60°)	2822.1	5.0	B3/5000		
BH	(60°-80°)	2730.9	4.8	B4/5000		G4/5000
BVH	(80°-90°)	136.4	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6
2.5°	14682.1	14714.9	14701.3	14693.0	14717.7	14679.5	14600.5	14575.8	14537.6	14447.7	14294.9
5°	14131.3	14229.4	14224.0	14297.6	14420.4	14453.2	14417.7	14423.1	14352.2	14240.3	13986.8
7.5°	13179.3	13220.3	13242.1	13403.1	13626.7	13806.6	13959.4	14008.4	13975.8	13880.3	13553.1
10°	12197.4	12230.2	12282.0	12470.2	12753.9	13002.1	13291.2	13457.6	13528.5	13512.1	13146.6
12.5°	11354.7	11387.3	11455.5	11668.4	12006.5	12312.0	12732.0	12939.3	13108.4	13209.3	12816.5
15°	10599.1	10670.0	10735.5	10981.0	11360.1	11761.0	12235.6	12497.5	12759.3	12985.7	12524.7
17.5°	10010.0	10081.0	10119.0	10342.7	10746.4	11237.4	11793.8	12102.0	12429.3	12800.3	12235.6
20°	9669.0	9701.7	9685.4	9810.8	10173.6	10694.7	11354.7	11711.9	12107.4	12625.7	11946.5
22.5°	9573.7	9576.2	9516.3	9502.6	9737.1	10176.3	10885.5	11319.1	11804.7	12511.1	11698.3
25°	9805.4	9797.3	9633.6	9499.9	9524.4	9780.9	10432.7	10937.3	11551.0	12486.5	11507.4
27.5°	10320.9	10345.4	10102.6	9851.8	9603.6	9595.3	10089.1	10621.0	11343.8	12598.3	11425.6
30°	11043.7	11084.6	10825.5	10506.4	10040.0	9655.4	9955.3	10432.7	11215.6	12830.2	11411.9
32.5°	11834.6	11878.3	11681.9	11346.5	10735.5	10026.2	10048.1	10449.1	11210.1	13154.9	11504.7
35°	12677.5	12726.6	12625.7	12342.0	11662.9	10710.9	10402.7	10713.6	11387.3	13651.2	11752.8
37.5°	13618.5	13694.9	13722.1	13452.1	12726.6	11613.7	10983.8	11215.6	11788.3	14341.3	12208.3
40°	14974.1	15080.4	15072.2	14684.9	13945.8	12832.9	11881.1	11941.1	12413.0	15263.2	12936.7
42.5°	17570.6	17592.5	16913.4	16070.5	15287.7	14114.8	12939.3	12890.2	13274.8	16430.5	14008.4
45°	20873.7	20783.7	19272.6	17644.3	16689.7	15587.7	14316.7	14076.8	14368.5	17854.3	15350.5
47.5°	23614.9	23407.4	21498.3	19250.8	18173.4	17188.7	15934.2	15514.0	15675.0	19469.0	17085.1
50°	24566.7	24411.2	22829.2	20587.2	19578.0	19141.6	17925.2	17330.6	17374.3	21394.6	19117.1
52.5°	24362.2	24340.3	23284.8	21468.3	20892.8	21192.8	20745.5	19940.8	19515.4	23533.1	21310.0
55°	23879.3	23925.7	23543.8	22493.8	22395.6	23172.9	24430.4	23835.8	22512.9	25690.4	23576.6
57.5°	22201.9	22322.0	23162.1	23783.9	24815.0	25971.4	27397.9	27228.7	25739.6	28022.5	26271.4
60°	17887.1	18165.2	20418.2	23533.1	27305.1	30921.8	31560.1	31167.3	29067.2	30916.3	29830.8
62.5°	12532.9	12822.0	15500.5	20374.5	26896.1	36513.3	39000.7	37306.9	33845.7	35179.4	34437.5
65°	6709.7	6848.8	8894.5	14136.7	22706.6	37666.9	49875.3	47297.8	41411.8	40435.3	38378.9
67.5°	3701.2	3777.6	4560.4	7137.9	14543.1	33169.3	56803.3	58750.7	50868.2	43934.8	37661.4
69°	3346.6	3417.5	3930.4	5405.9	9731.7	27425.1	56126.8	61769.9	55013.9	43588.4	35010.4
70°	3273.0	3338.5	3799.4	4983.2	7877.0	22605.6	53860.2	60998.2	56001.3	42347.4	32697.5
72.5°	2945.7	3016.6	3463.9	4475.8	6731.5	11270.1	42663.8	51574.5	50843.6	36717.7	24801.3
75°	2746.6	2812.2	3570.3	4383.2	6445.1	7132.5	28126.1	38010.6	37375.1	25685.0	13373.0
77.5°	1175.5	1170.0	1655.6	3709.5	6540.6	6906.1	15113.2	23745.8	21664.6	10978.3	3840.4
80°	785.6	771.9	785.6	1091.0	5997.8	6944.3	7918.0	12052.8	9104.5	2798.4	1892.9
82.5°	676.5	665.5	690.1	665.5	2108.3	7926.1	6731.5	6409.7	4328.6	1590.2	938.3
85°	455.5	436.4	594.6	597.3	995.6	7042.5	7582.5	5414.2	3502.1	943.7	463.7
87.5°	218.2	212.7	346.4	422.8	583.7	2861.2	8507.2	5547.7	3532.2	482.8	220.9
90°	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°	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6	14387.6
2.5°	14248.5	14136.7	14027.6	13896.6	13760.3	13607.5	13531.2	13454.8	13435.7	13413.9	13337.5
5°	13855.7	13697.7	13424.8	13124.8	12808.4	12500.3	12265.7	12118.4	12006.5	11949.2	11848.3
7.5°	13348.4	13116.6	12639.3	12121.1	11589.2	11103.7	10683.7	10419.1	10168.2	10050.9	9917.3
10°	12865.8	12519.3	11777.4	11013.7	10249.9	9516.3	8826.2	8338.0	7904.4	7661.6	7489.7
12.5°	12451.0	11976.6	10948.3	9914.5	8867.2	7822.5	6788.9	5975.9	5296.8	4939.5	4756.8
15°	12047.5	11474.6	10160.0	8848.1	7503.4	6082.4	4724.1	3802.1	3240.3	3016.6	2940.2
17.5°	11681.9	10948.3	9369.0	7773.4	6096.0	4377.7	3174.8	2667.4	2452.0	2378.3	2353.9
20°	11286.5	10416.3	8548.0	6649.6	4628.6	3060.3	2479.3	2255.6	2168.4	2146.5	2135.7
22.5°	10904.6	9892.7	7762.6	5446.8	3324.9	2362.0	2130.2	2037.4	2023.8	2042.9	2042.9
25°	10580.0	9423.6	6914.3	4189.4	2441.1	1988.4	1906.6	1884.7	1936.5	2007.4	2021.1
27.5°	10337.2	9039.0	6011.5	3093.0	1944.7	1729.2	1726.6	1762.1	1890.1	2026.5	2053.8
30°	10171.0	8673.4	5045.9	2231.1	1631.0	1522.0	1565.5	1641.9	1830.2	2023.8	2075.6
32.5°	10086.4	8403.4	4039.5	1726.6	1396.5	1336.5	1410.1	1502.9	1688.4	1868.4	1936.5
35°	10151.9	8204.4	3090.3	1440.1	1232.9	1186.4	1262.8	1352.8	1462.0	1538.4	1590.2
37.5°	10397.3	8125.3	2332.0	1290.2	1121.0	1077.4	1137.4	1189.2	1232.9	1254.7	1279.2
40°	10926.4	8209.8	1868.4	1213.8	1058.2	1003.8	1028.2	1047.4	1074.7	1096.4	1107.4
42.5°	11706.5	8463.4	1674.7	1183.8	1025.5	946.4	940.9	949.1	984.7	1025.5	1033.7
45°	12797.5	8910.7	1661.1	1202.8	1009.2	900.1	875.5	886.4	940.9	1003.8	1014.6
47.5°	14191.2	9592.6	1770.1	1260.1	1022.7	875.5	834.6	848.3	916.4	1001.1	1014.6
50°	15879.6	10544.6	1952.9	1344.7	1082.9	880.9	821.0	829.2	900.1	992.8	1006.5
52.5°	17873.4	11894.7	2152.0	1426.5	1145.6	916.4	831.9	812.8	878.2	960.1	976.4
55°	20090.8	13626.7	2356.6	1500.1	1178.3	960.1	853.8	790.9	837.4	905.5	919.2
57.5°	22812.9	16048.6	2711.2	1571.0	1200.1	990.1	875.5	769.1	785.6	834.6	845.5
60°	26497.8	19474.5	3335.8	1688.4	1249.2	1001.1	872.8	750.1	733.6	761.0	766.5
62.5°	30913.6	23194.7	3856.8	1835.7	1331.0	1009.2	856.5	736.4	690.1	690.1	695.6
65°	33534.7	24190.3	3567.6	1958.4	1399.2	1001.1	837.4	722.8	657.3	627.3	630.1
67.5°	31311.8	21274.6	3057.5	1982.9	1396.5	962.8	807.3	698.2	624.6	578.2	575.5
69°	28527.0	18356.2	2828.4	1917.4	1331.0	913.7	769.1	671.0	600.1	551.0	548.3
70°	26282.4	16575.0	2678.4	1846.5	1260.1	878.2	739.1	646.4	580.9	534.6	529.2
72.5°	19109.0	10860.9	2288.4	1587.4	1039.2	736.4	638.3	567.3	518.2	490.9	485.5
75°	9549.0	5179.6	1857.4	1287.4	796.4	589.1	523.7	474.6	450.0	444.5	441.9
77.5°	3136.7	2372.9	1328.3	960.1	591.8	461.0	422.8	387.4	381.9	398.2	392.8
80°	1723.8	1380.2	842.8	635.6	403.7	338.1	332.8	313.7	321.9	349.1	343.6
82.5°	878.2	717.3	520.9	381.9	272.7	242.8	264.5	253.7	264.5	289.1	286.4
85°	433.6	392.8	330.1	231.8	180.1	155.4	188.2	196.3	201.8	220.9	220.9
87.5°	251.0	231.8	174.6	109.2	90.0	81.8	109.2	106.4	125.4	136.3	133.7
90°	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)