

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: P192887

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48233.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - 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

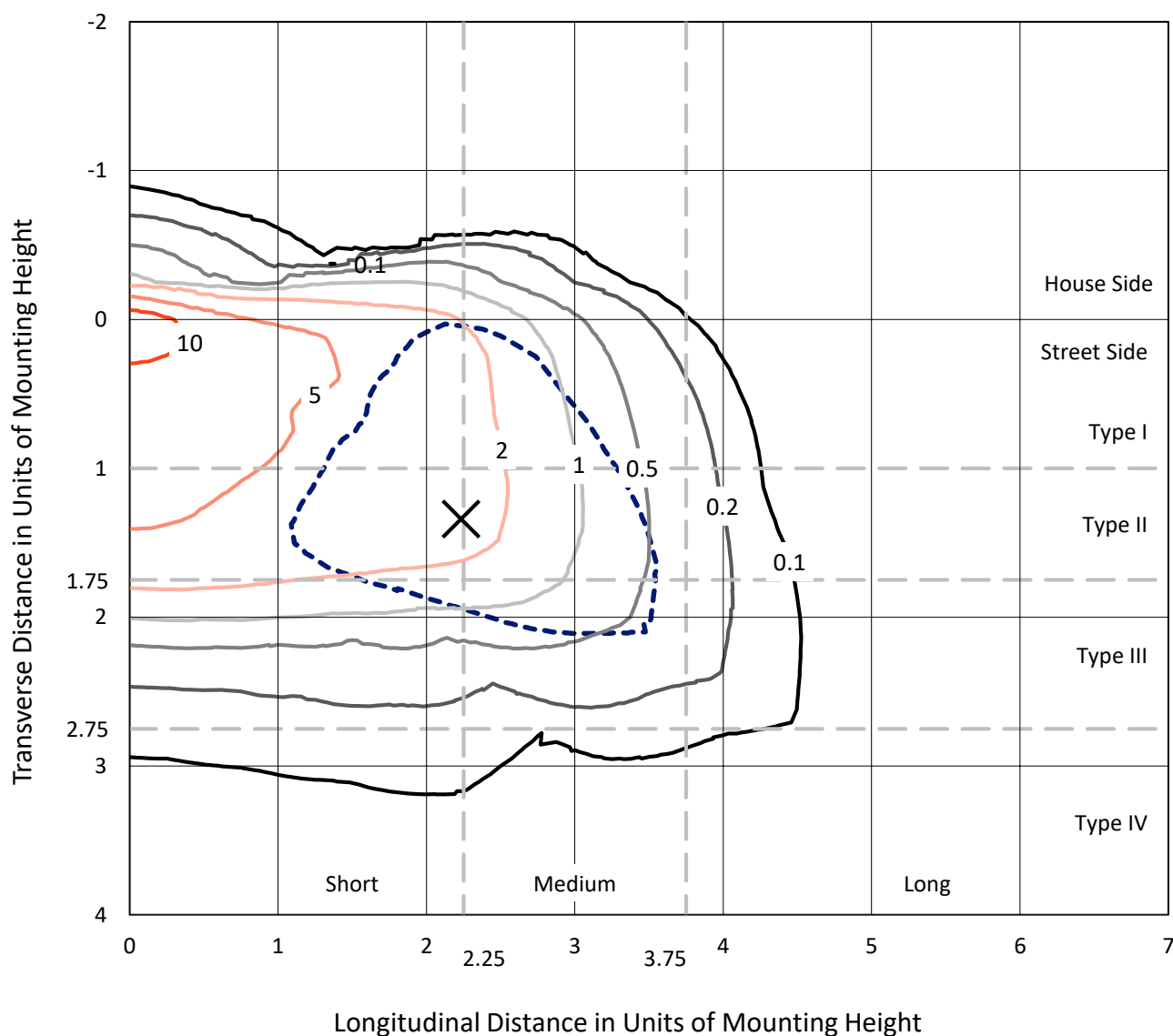


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

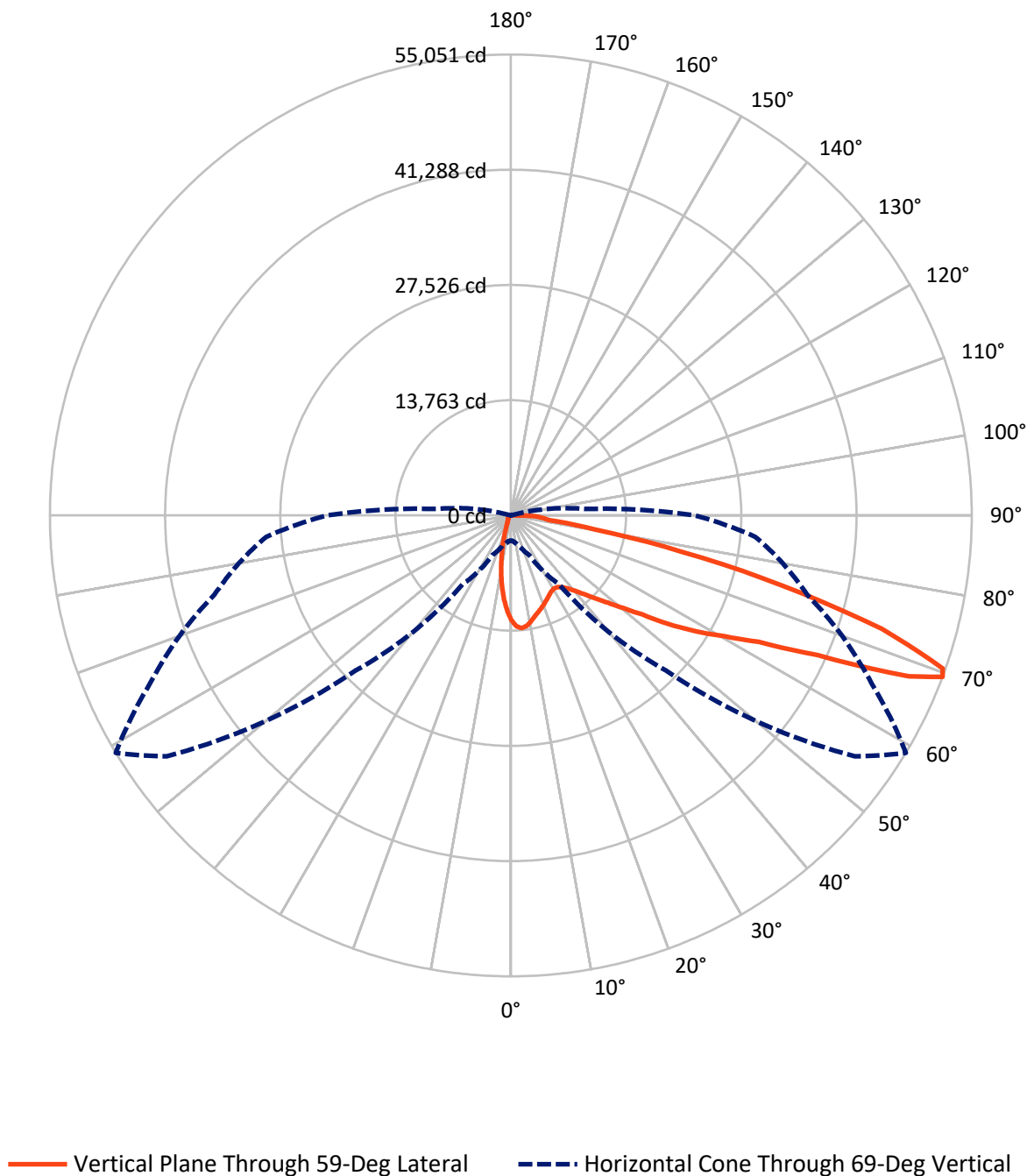


Based on 30 foot mounting height. Maximum calculated value = 14 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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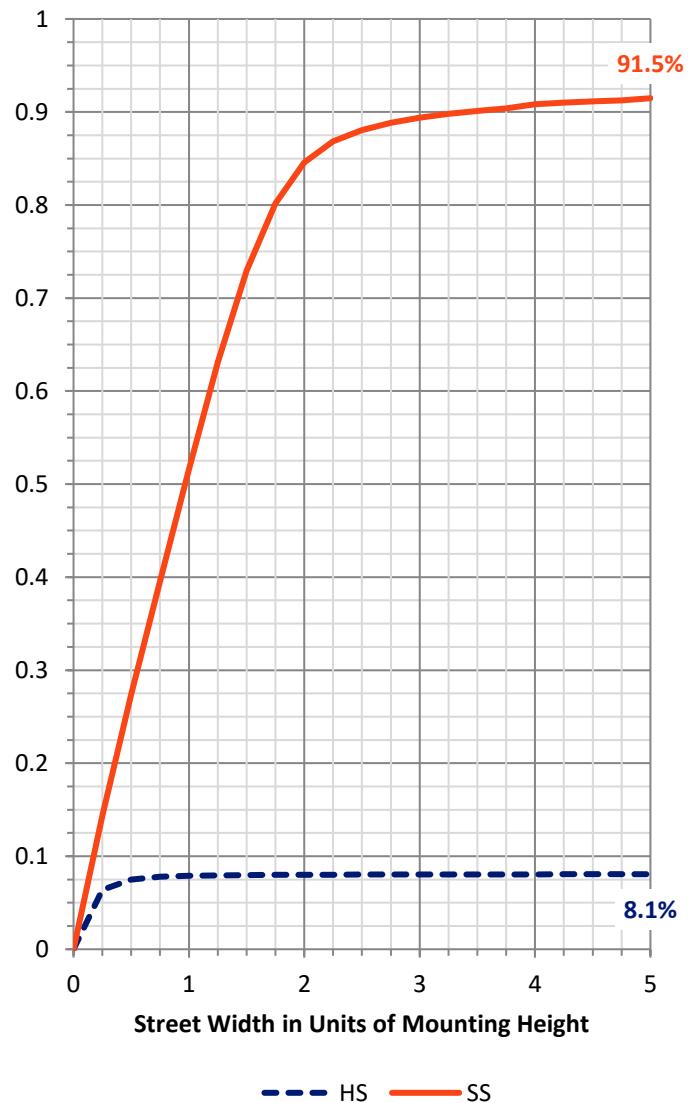
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3928.0	0.0	3928.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	44305.6	0.0	44305.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	48233.6	0.0	48233.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.1	2.1
10°-20°	2105.6	4.4
20°-30°	2833.4	5.9
30°-40°	4114.0	8.5
40°-50°	6850.0	14.2
50°-60°	10685.9	22.2
60°-70°	13223.0	27.4
70°-80°	6701.3	13.9
80°-90°	701.2	1.5
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°	48233.6	100.0
0°-180°	48233.6	100.0

Coefficient of Utilization



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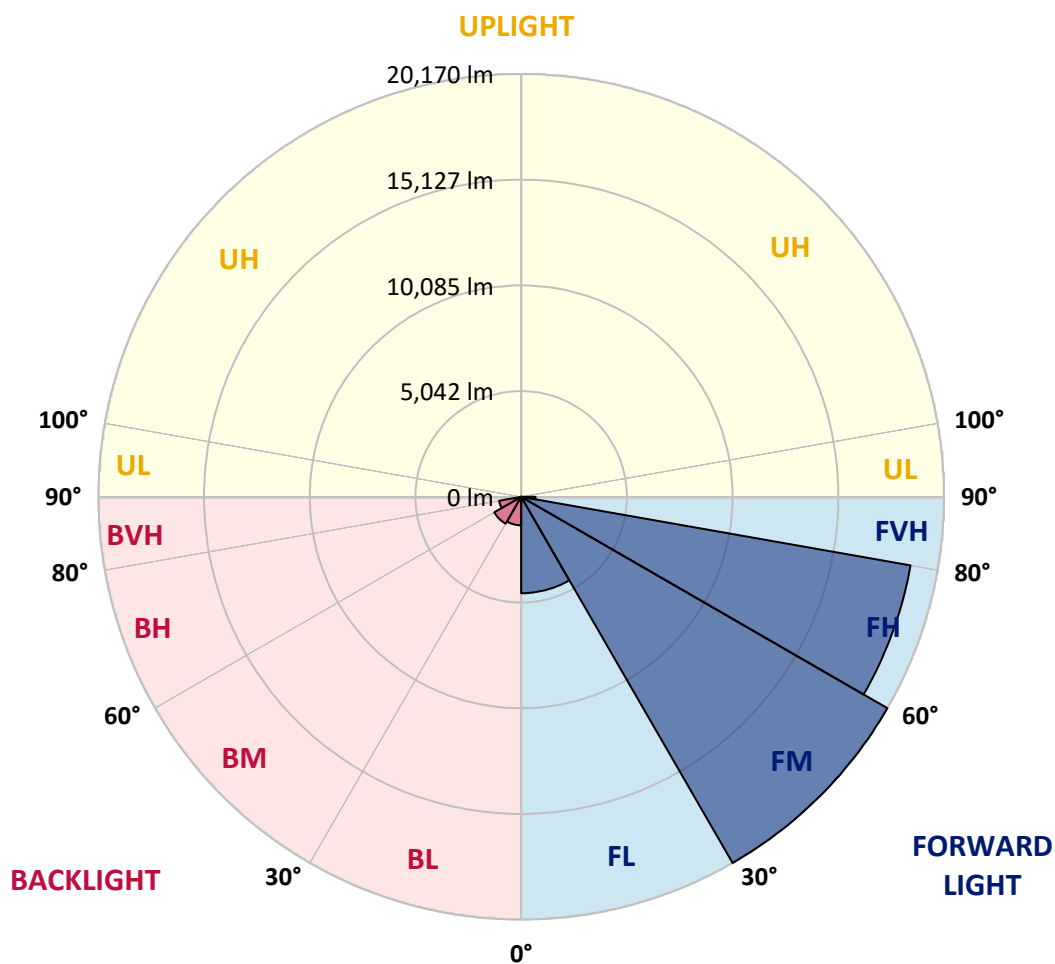
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4598.5	9.5			
FM	(30°-60°)	20169.9	41.8			
FH	(60°-80°)	18857.6	39.1			G5
FVH	(80°-90°)	679.6	1.4			G4/750
BL	(0°-30°)	1359.6	2.8	B3/2500		
BM	(30°-60°)	1480.1	3.1	B2/2500		
BH	(60°-80°)	1066.7	2.2	B3/2500		G3/2500
BVH	(80°-90°)	21.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6
2.5°	13760.1	13754.6	13694.7	13667.4	13618.3	13514.6	13353.6	13269.1	13132.8	12895.5	12576.4
5°	13634.6	13700.1	13735.5	13738.3	13773.8	13735.5	13591.0	13520.1	13331.9	12950.1	12377.2
7.5°	12783.7	12808.3	12909.1	12996.4	13165.5	13326.5	13378.2	13348.2	13236.4	12827.2	12066.4
10°	11872.6	11897.2	12017.2	12131.8	12360.9	12609.1	12871.0	12925.5	12971.8	12652.8	11766.3
12.5°	11087.2	11111.6	11234.5	11384.5	11651.7	11957.3	12363.7	12453.6	12658.2	12486.3	11526.3
15°	10410.8	10421.7	10541.7	10727.2	11046.2	11439.0	11900.0	12044.5	12358.2	12369.0	11316.3
17.5°	9835.3	9862.5	9936.1	10113.5	10462.5	10948.1	11485.4	11692.7	12060.9	12270.9	11111.6
20°	9483.3	9510.7	9508.0	9606.2	9919.7	10438.0	11070.8	11319.0	11766.3	12170.0	10928.9
22.5°	9415.2	9415.2	9344.3	9330.6	9516.2	9949.8	10639.8	10942.7	11501.7	12126.3	10800.9
25°	9658.0	9647.0	9469.7	9325.2	9333.4	9592.5	10222.6	10582.6	11278.1	12156.3	10732.5
27.5°	10170.7	10157.1	9933.5	9658.0	9437.0	9434.3	9906.2	10293.5	11100.8	12298.1	10759.9
30°	10879.8	10874.5	10631.7	10285.2	9884.3	9516.2	9797.1	10148.9	10986.2	12554.6	10822.5
32.5°	11654.4	11646.3	11463.6	11098.1	10590.7	9884.3	9911.7	10206.2	11019.1	12895.5	10975.3
35°	12475.4	12461.8	12382.7	12063.7	11504.5	10563.5	10288.0	10517.1	11226.3	13405.4	11275.3
37.5°	13364.6	13378.2	13435.5	13130.0	12543.6	11515.4	10918.1	11073.5	11643.5	14098.3	11763.6
40°	14676.5	14673.7	14692.8	14291.9	13727.4	12680.0	11799.0	11848.1	12341.8	15017.4	12505.5
42.5°	17057.5	16891.3	16386.6	15568.4	15001.1	14011.0	12909.1	12857.3	13195.5	16154.7	13544.7
45°	20256.8	19902.3	18593.2	17024.9	16299.4	15511.1	14275.6	14109.2	14324.7	17521.3	14826.5
47.5°	23008.9	22640.7	20788.8	18541.3	17676.7	16934.8	15876.6	15576.5	15647.4	19051.3	16452.0
50°	23944.5	23764.4	22147.1	19861.4	19010.4	18726.8	17734.0	17368.5	17267.6	20821.5	18336.8
52.5°	23619.8	23606.2	22528.9	20717.8	20232.4	20581.5	20071.5	19648.6	19277.7	22687.0	20254.2
55°	23098.9	23167.2	22684.4	21468.0	21451.5	22275.2	23268.1	22916.1	21841.6	24713.6	21907.0
57.5°	21661.5	21953.4	22597.1	22886.2	23557.2	24399.9	25930.1	26137.3	24866.4	26265.5	23279.0
60°	17575.8	18216.8	20322.3	23090.8	26271.0	28371.2	29143.0	29320.3	27348.3	27555.6	25130.9
62.5°	12475.4	13130.0	15800.2	20483.3	26312.0	33588.8	33929.7	33234.2	30081.3	29467.5	28324.8
65°	6622.3	7126.9	9308.9	14785.6	22812.6	34799.7	42300.3	40227.4	34903.4	33228.8	32451.4
67.5°	3387.5	3540.2	4407.6	7236.0	15683.0	30910.4	49803.5	51262.8	43214.0	36959.9	32252.4
69°	2997.5	3087.4	3663.0	5231.4	10042.6	26180.9	50169.0	55051.3	47564.3	36649.0	29309.4
70°	2902.0	2981.1	3504.8	4734.9	7849.6	21956.0	48769.8	54718.4	48677.0	35465.2	27111.0
72.5°	2462.9	2531.1	3120.2	4184.0	6379.5	10898.9	39616.6	46367.0	43680.4	29543.9	19624.2
75°	1647.4	1871.1	2994.8	3922.1	5935.0	6191.4	26118.2	33507.0	31125.9	19926.9	10222.6
77.5°	395.5	425.4	845.5	3120.2	5427.7	5449.6	13432.8	20829.6	16989.4	7102.3	2416.5
80°	212.7	204.6	237.3	619.2	5054.0	5114.0	6046.9	10110.8	6065.8	1178.3	796.4
82.5°	150.0	141.8	152.8	259.2	1590.2	4658.5	4374.8	4576.7	2514.7	452.8	357.3
85°	54.5	51.8	84.5	234.6	499.1	2678.4	4494.8	3774.8	2037.4	207.3	261.7
87.5°	19.1	16.4	32.8	128.2	152.8	1140.1	2773.9	2853.0	801.9	125.4	122.7
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°	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6	12554.6
2.5°	12442.7	12273.6	11962.7	11643.5	11349.0	10994.4	10817.1	10642.6	10568.9	10541.7	10413.5
5°	12082.7	11796.2	11136.2	10473.5	9862.5	9213.4	8785.2	8441.5	8239.7	8141.5	7986.0
7.5°	11621.7	11152.6	10151.6	9128.8	8177.0	7238.8	6543.2	6008.6	5640.4	5463.1	5302.3
10°	11174.5	10549.8	9126.1	7732.4	6439.5	5195.9	4235.8	3540.2	3095.7	2891.1	2760.2
12.5°	10773.5	9963.5	8136.0	6371.4	4748.5	3292.1	2315.6	1762.0	1486.5	1391.0	1344.7
15°	10416.2	9423.4	7200.5	5078.6	3215.7	1882.0	1265.5	1077.3	1033.7	1033.7	1028.2
17.5°	10078.0	8894.2	6297.7	3864.8	2018.3	1151.0	962.8	938.2	938.2	949.1	949.1
20°	9753.5	8389.7	5424.9	2773.9	1271.0	913.7	870.0	864.6	870.0	883.7	883.7
22.5°	9475.2	7931.4	4609.4	1903.8	943.7	823.7	801.9	793.7	796.4	804.5	810.0
25°	9267.9	7544.2	3840.3	1290.2	812.8	750.1	725.5	711.9	701.0	701.0	706.4
27.5°	9137.1	7216.9	3095.7	938.2	731.0	681.9	643.6	621.9	597.3	583.7	589.1
30°	9041.5	6905.9	2397.4	766.5	654.6	605.6	556.4	520.9	485.4	469.2	474.6
32.5°	9006.1	6655.0	1792.0	676.5	586.4	531.9	471.9	425.4	387.4	373.6	376.4
35°	9101.6	6455.9	1311.8	611.0	531.9	463.7	395.5	343.6	313.7	305.5	308.2
37.5°	9352.5	6349.5	981.9	556.4	482.7	406.5	330.1	280.9	261.7	261.7	264.5
40°	9827.1	6346.9	788.2	518.2	439.1	351.9	272.7	237.3	226.3	231.8	234.6
42.5°	10519.8	6491.4	687.4	482.7	401.0	300.0	226.3	201.8	199.1	204.6	207.3
45°	11466.3	6755.9	632.7	452.8	360.0	251.0	190.8	174.6	174.6	182.8	185.5
47.5°	12625.5	7143.3	586.4	422.8	319.1	210.0	163.7	152.8	155.4	163.7	166.4
50°	14021.9	7631.4	540.1	390.0	289.1	174.6	141.8	133.7	136.3	147.3	150.0
52.5°	15612.0	8288.7	501.8	360.0	251.0	144.5	119.9	114.5	119.9	130.9	133.7
55°	16975.7	8877.9	455.5	335.4	201.8	119.9	98.3	98.3	103.7	117.2	119.9
57.5°	18287.7	9494.3	414.5	289.1	158.2	95.5	81.8	84.5	92.8	106.4	109.2
60°	20213.3	10538.9	365.5	242.8	119.9	76.4	68.2	70.9	81.8	95.5	98.3
62.5°	23483.5	12129.1	316.5	201.8	92.8	60.0	54.5	60.0	73.6	90.0	92.8
65°	26434.6	12775.4	259.2	169.2	70.9	46.3	46.3	54.5	70.9	87.3	90.0
67.5°	24790.0	10754.4	201.8	133.7	54.5	35.5	38.1	51.8	68.2	87.3	90.0
69°	21923.4	8793.4	171.9	106.4	46.3	32.8	35.5	51.8	68.2	84.5	87.3
70°	19689.6	7424.1	152.8	90.0	40.9	32.8	35.5	49.0	68.2	84.5	87.3
72.5°	13187.3	4009.4	122.7	65.4	38.1	30.0	30.0	49.0	65.4	81.8	84.5
75°	5667.8	1107.4	98.3	46.3	32.8	27.4	27.4	46.3	62.8	79.1	84.5
77.5°	1036.5	280.9	79.1	40.9	32.8	27.4	24.6	43.6	60.0	76.4	79.1
80°	411.8	139.1	62.8	35.5	30.0	24.6	21.9	40.9	57.3	73.6	76.4
82.5°	248.2	79.1	51.8	32.8	30.0	21.9	19.1	35.5	54.5	70.9	73.6
85°	201.8	54.5	40.9	32.8	27.4	21.9	16.4	32.8	49.0	68.2	70.9
87.5°	98.3	38.1	38.1	30.0	27.4	21.9	16.4	30.0	46.3	65.4	68.2
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)