

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: P194458

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194458
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-10-LED-E1-SL3-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA 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: 33163 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 323
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



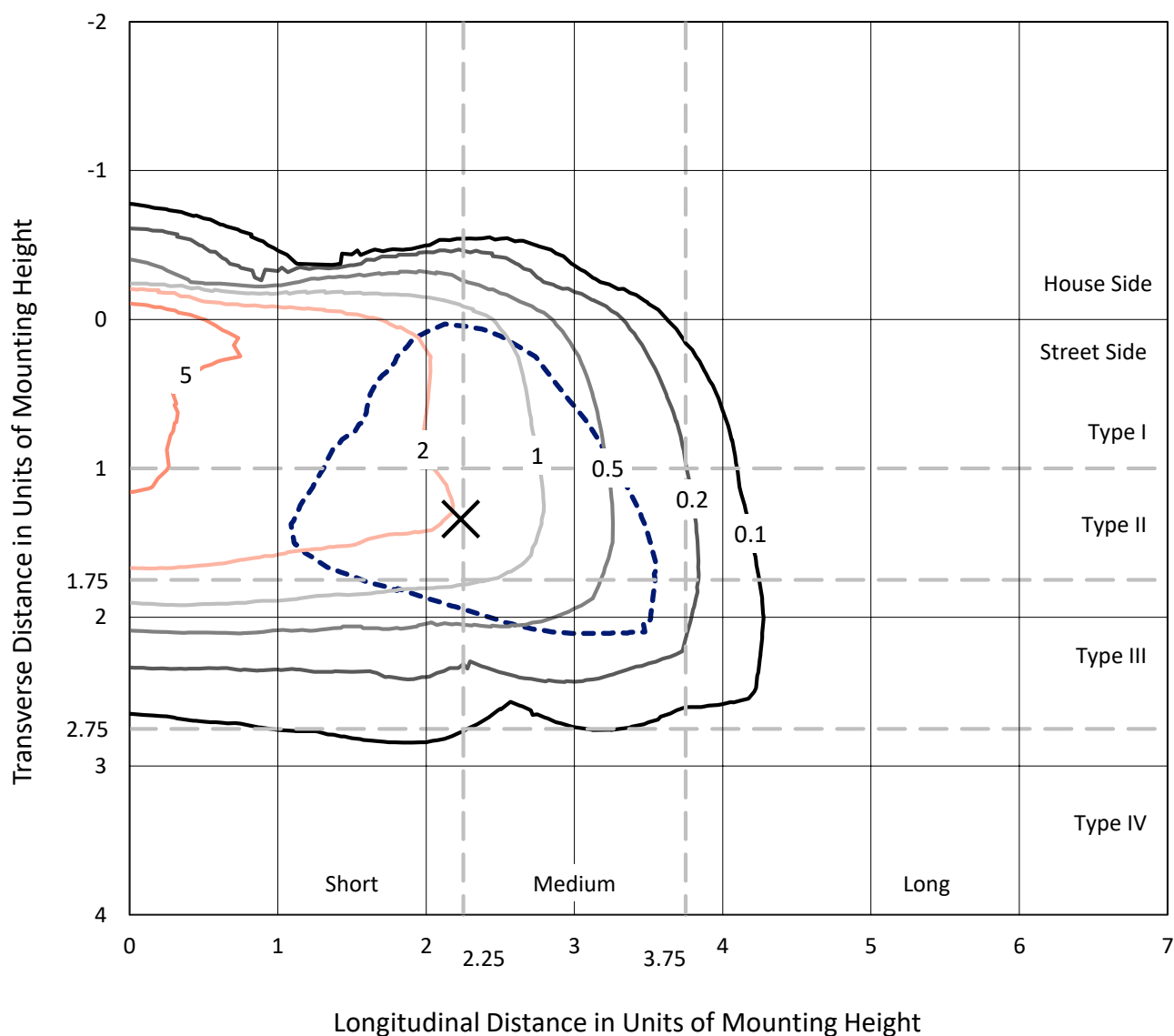
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

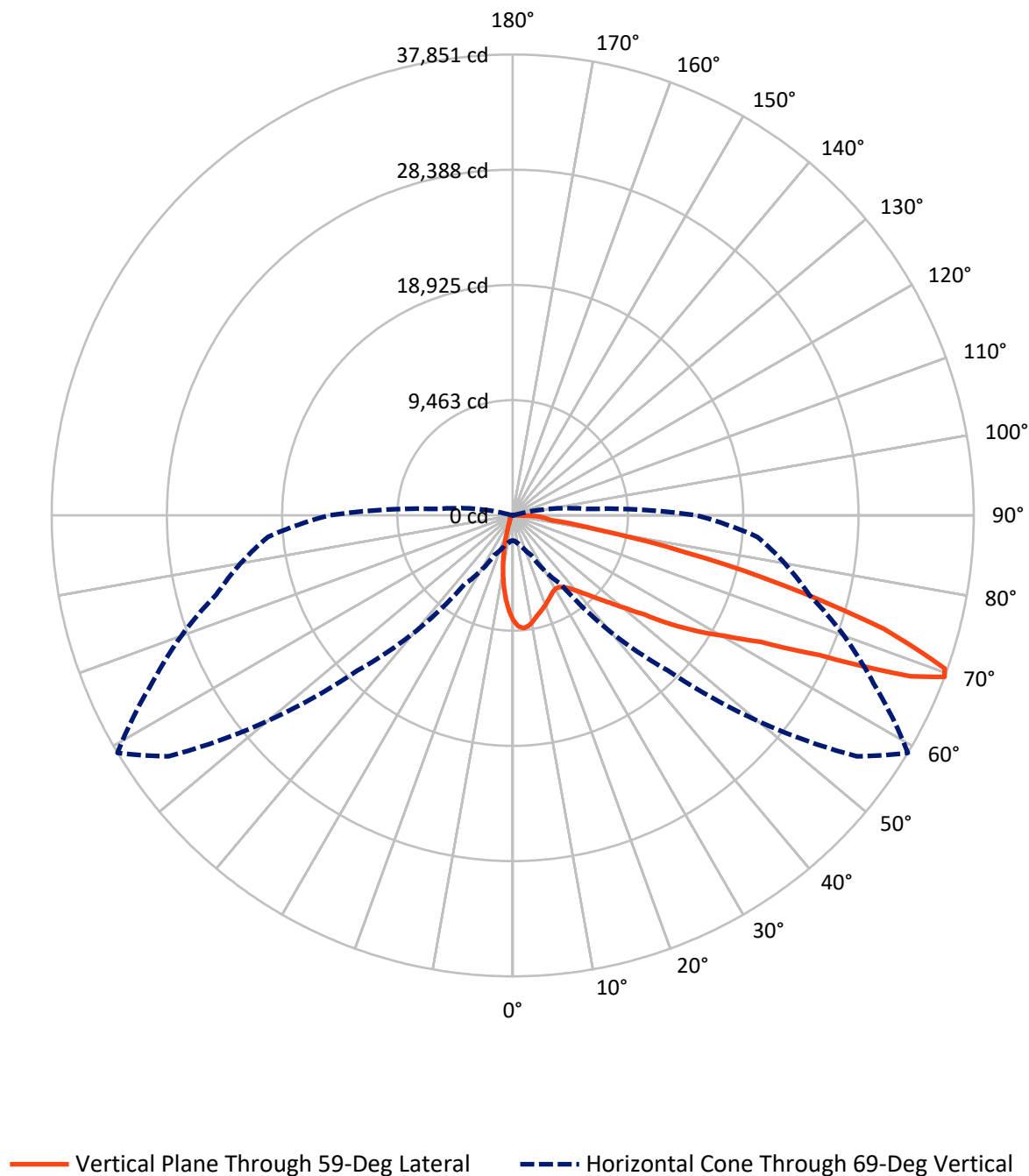


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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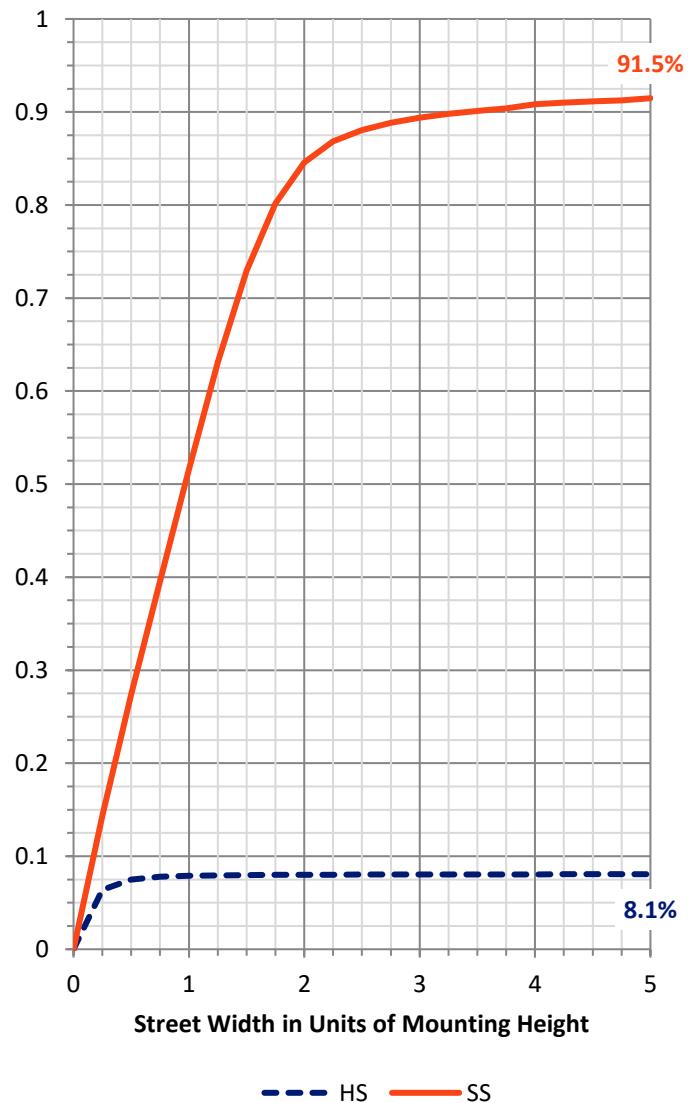
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.7	0.0	2700.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	30462.3	0.0	30462.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	33163.0	0.0	33163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.7	2.1
10°-20°	1447.7	4.4
20°-30°	1948.1	5.9
30°-40°	2828.5	8.5
40°-50°	4709.7	14.2
50°-60°	7347.1	22.2
60°-70°	9091.5	27.4
70°-80°	4607.5	13.9
80°-90°	482.1	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°	33163.0	100.0
0°-180°	33163.0	100.0

Coefficient of Utilization



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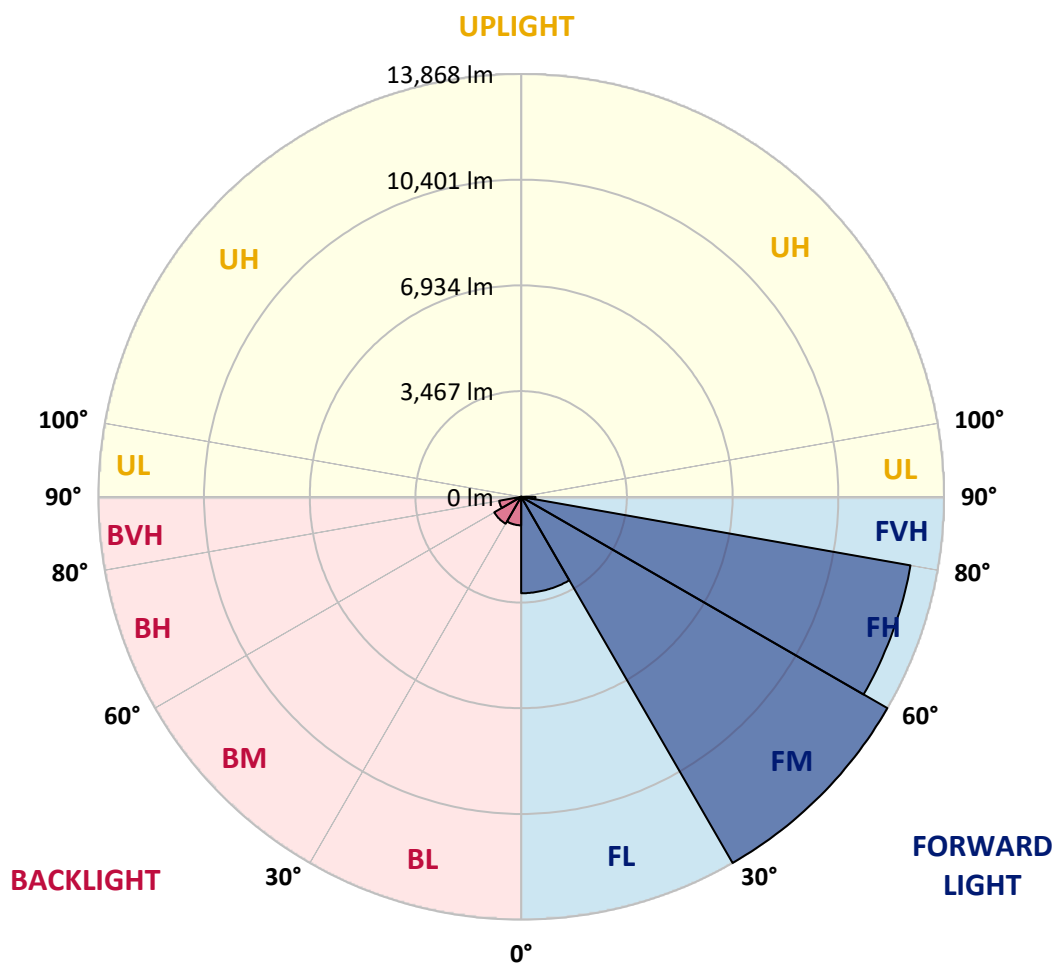
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3161.7	9.5			
FM	(30°-60°)	13867.8	41.8			
FH	(60°-80°)	12965.5	39.1			G5
FVH	(80°-90°)	467.3	1.4			G3/500
BL	(0°-30°)	934.8	2.8	B2/1000		
BM	(30°-60°)	1017.6	3.1	B2/2500		
BH	(60°-80°)	733.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	14.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9
2.5°	9460.7	9457.0	9415.7	9397.0	9363.2	9292.0	9181.3	9123.2	9029.4	8866.3	8646.9
5°	9374.5	9419.5	9443.9	9445.7	9470.1	9443.9	9344.5	9295.7	9166.3	8903.8	8510.0
7.5°	8789.4	8806.3	8875.7	8935.7	9051.9	9162.6	9198.2	9177.6	9100.7	8819.4	8296.2
10°	8163.1	8179.9	8262.4	8341.2	8498.7	8669.4	8849.4	8886.9	8918.8	8699.4	8089.9
12.5°	7623.0	7639.9	7724.2	7827.4	8011.2	8221.2	8500.6	8562.5	8703.1	8585.0	7924.9
15°	7157.9	7165.4	7247.9	7375.4	7594.8	7864.9	8181.8	8281.2	8496.9	8504.4	7780.5
17.5°	6762.2	6781.0	6831.6	6953.5	7193.5	7527.3	7896.8	8039.3	8292.4	8436.8	7639.9
20°	6520.3	6539.1	6537.2	6604.7	6820.4	7176.7	7611.7	7782.4	8089.9	8367.5	7514.2
22.5°	6473.4	6473.4	6424.7	6415.3	6542.8	6841.0	7315.4	7523.6	7908.0	8337.5	7426.1
25°	6640.3	6632.8	6510.9	6411.6	6417.2	6595.3	7028.5	7276.0	7754.2	8358.1	7379.2
27.5°	6992.9	6983.5	6829.7	6640.3	6488.4	6486.6	6811.0	7077.3	7632.4	8455.6	7397.9
30°	7480.5	7476.7	7309.8	7071.6	6796.0	6542.8	6736.0	6977.9	7553.6	8631.9	7441.1
32.5°	8013.0	8007.4	7881.8	7630.5	7281.7	6796.0	6814.7	7017.3	7576.1	8866.3	7546.1
35°	8577.5	8568.1	8513.7	8294.3	7909.9	7262.9	7073.5	7231.0	7718.6	9217.0	7752.4
37.5°	9188.8	9198.2	9237.6	9027.6	8624.4	7917.4	7506.7	7613.6	8005.5	9693.3	8088.0
40°	10090.8	10089.0	10102.1	9826.4	9438.2	8718.1	8112.4	8146.2	8485.6	10325.2	8598.1
42.5°	11727.9	11613.6	11266.6	10704.0	10314.0	9633.3	8875.7	8840.0	9072.6	11107.2	9312.6
45°	13927.6	13683.8	12783.7	11705.4	11206.6	10664.7	9815.2	9700.8	9848.9	12046.7	10194.0
47.5°	15819.8	15566.6	14293.3	12748.1	12153.6	11643.6	10915.9	10709.7	10758.4	13098.8	11311.6
50°	16463.0	16339.2	15227.2	13655.7	13070.6	12875.6	12193.0	11941.7	11872.3	14315.8	12607.4
52.5°	16239.8	16230.5	15489.7	14244.6	13910.8	14150.8	13800.1	13509.4	13254.4	15598.5	13925.8
55°	15881.7	15928.5	15596.6	14760.3	14749.0	15315.3	15997.9	15756.0	15017.2	16991.8	15062.2
57.5°	14893.4	15094.1	15536.6	15735.4	16196.7	16776.2	17828.2	17970.7	17096.8	18058.9	16005.4
60°	12084.2	12524.9	13972.6	15876.0	18062.6	19506.6	20037.3	20159.2	18803.3	18945.9	17278.7
62.5°	8577.5	9027.6	10863.4	14083.3	18090.7	23094.0	23328.4	22850.2	20682.4	20260.4	19474.7
65°	4553.2	4900.1	6400.3	10165.8	15684.8	23926.6	29083.6	27658.4	23997.8	22846.4	22312.0
67.5°	2329.1	2434.1	3030.4	4975.1	10782.8	21252.4	34242.4	35245.7	29711.8	25411.8	22175.1
69°	2060.9	2122.8	2518.5	3596.8	6904.7	18000.7	34493.7	37850.5	32702.8	25198.0	20151.7
70°	1995.3	2049.7	2409.7	3255.5	5397.0	15095.9	33531.7	37621.7	33468.0	24384.1	18640.2
72.5°	1693.4	1740.3	2145.3	2876.7	4386.3	7493.6	27238.3	31879.6	30032.5	20312.9	13492.6
75°	1132.7	1286.4	2059.0	2696.6	4080.6	4256.9	17957.6	23037.7	21400.6	13700.7	7028.5
77.5°	271.9	292.5	581.3	2145.3	3731.8	3746.8	9235.7	14321.4	11681.1	4883.2	1661.5
80°	146.3	140.6	163.1	425.7	3474.9	3516.1	4157.5	6951.6	4170.6	810.1	547.6
82.5°	103.1	97.5	105.0	178.2	1093.3	3203.0	3007.9	3146.7	1729.0	311.3	245.7
85°	37.5	35.6	58.1	161.3	343.2	1841.5	3090.4	2595.4	1400.8	142.5	180.0
87.5°	13.1	11.3	22.5	88.1	105.0	783.9	1907.2	1961.5	551.3	86.3	84.4
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°	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9	8631.9
2.5°	8555.0	8438.7	8224.9	8005.5	7803.0	7559.2	7437.3	7317.3	7266.7	7247.9	7159.8
5°	8307.4	8110.5	7656.7	7201.0	6781.0	6334.7	6040.2	5804.0	5665.2	5597.7	5490.8
7.5°	7990.5	7668.0	6979.8	6276.5	5622.1	4977.0	4498.8	4131.2	3878.1	3756.2	3645.5
10°	7683.0	7253.5	6274.7	5316.4	4427.5	3572.4	2912.3	2434.1	2128.4	1987.8	1897.8
12.5°	7407.3	6850.4	5593.9	4380.6	3264.8	2263.5	1592.1	1211.4	1022.0	956.4	924.5
15°	7161.7	6479.1	4950.7	3491.8	2210.9	1293.9	870.1	740.7	710.7	710.7	707.0
17.5°	6929.1	6115.3	4330.0	2657.3	1387.7	791.4	662.0	645.1	645.1	652.6	652.6
20°	6706.0	5768.3	3729.9	1907.2	873.9	628.2	598.2	594.5	598.2	607.6	607.6
22.5°	6514.7	5453.3	3169.2	1308.9	648.8	566.3	551.3	545.7	547.6	553.2	557.0
25°	6372.2	5187.0	2640.4	887.0	558.8	515.7	498.8	489.4	481.9	481.9	485.7
27.5°	6282.2	4962.0	2128.4	645.1	502.6	468.8	442.6	427.6	410.7	401.3	405.1
30°	6216.5	4748.2	1648.4	527.0	450.1	416.3	382.6	358.2	333.8	322.5	326.3
32.5°	6192.1	4575.7	1232.1	465.1	403.2	365.7	324.4	292.5	266.3	256.9	258.8
35°	6257.8	4438.8	902.0	420.1	365.7	318.8	271.9	236.3	215.7	210.0	211.9
37.5°	6430.3	4365.6	675.1	382.6	331.9	279.4	226.9	193.2	180.0	180.0	181.9
40°	6756.6	4363.8	542.0	356.3	301.9	241.9	187.5	163.1	155.6	159.4	161.3
42.5°	7232.9	4463.1	472.6	331.9	275.7	206.3	155.6	138.8	136.9	140.6	142.5
45°	7883.6	4645.0	435.1	311.3	247.5	172.5	131.3	120.0	120.0	125.6	127.5
47.5°	8680.6	4911.3	403.2	290.7	219.4	144.4	112.5	105.0	106.9	112.5	114.4
50°	9640.8	5247.0	371.3	268.2	198.8	120.0	97.5	91.9	93.8	101.3	103.1
52.5°	10734.0	5698.9	345.0	247.5	172.5	99.4	82.5	78.8	82.5	90.0	91.9
55°	11671.7	6104.0	313.2	230.7	138.8	82.5	67.5	67.5	71.3	80.6	82.5
57.5°	12573.7	6527.8	285.0	198.8	108.8	65.6	56.3	58.1	63.8	73.1	75.0
60°	13897.6	7246.0	251.3	166.9	82.5	52.5	46.9	48.8	56.3	65.6	67.5
62.5°	16146.1	8339.3	217.5	138.8	63.8	41.3	37.5	41.3	50.6	61.9	63.8
65°	18175.1	8783.8	178.2	116.3	48.8	31.9	31.9	37.5	48.8	60.0	61.9
67.5°	17044.3	7394.2	138.8	91.9	37.5	24.4	26.3	35.6	46.9	60.0	61.9
69°	15073.4	6045.9	118.1	73.1	31.9	22.5	24.4	35.6	46.9	58.1	60.0
70°	13537.6	5104.5	105.0	61.9	28.1	22.5	24.4	33.8	46.9	58.1	60.0
72.5°	9066.9	2756.6	84.4	45.0	26.3	20.6	20.6	33.8	45.0	56.3	58.1
75°	3896.8	761.4	67.5	31.9	22.5	18.8	18.8	31.9	43.1	54.4	58.1
77.5°	712.6	193.2	54.4	28.1	22.5	18.8	16.9	30.0	41.3	52.5	54.4
80°	283.2	95.6	43.1	24.4	20.6	16.9	15.0	28.1	39.4	50.6	52.5
82.5°	170.6	54.4	35.6	22.5	20.6	15.0	13.1	24.4	37.5	48.8	50.6
85°	138.8	37.5	28.1	22.5	18.8	15.0	11.3	22.5	33.8	46.9	48.8
87.5°	67.5	26.3	26.3	20.6	18.8	15.0	11.3	20.6	31.9	45.0	46.9
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)