

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: P194467

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194467
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-SL3-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA 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: 36730 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 - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

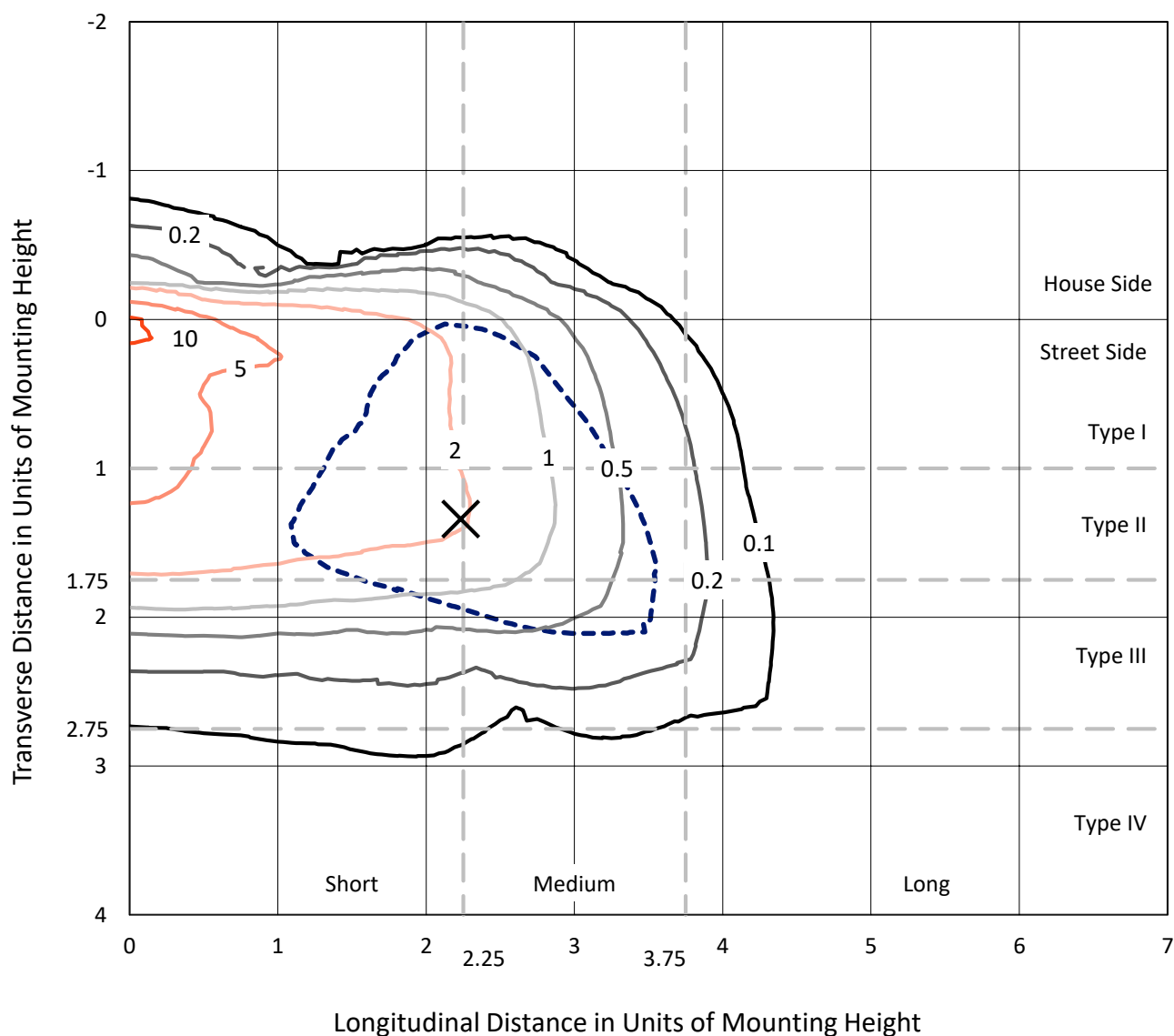


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

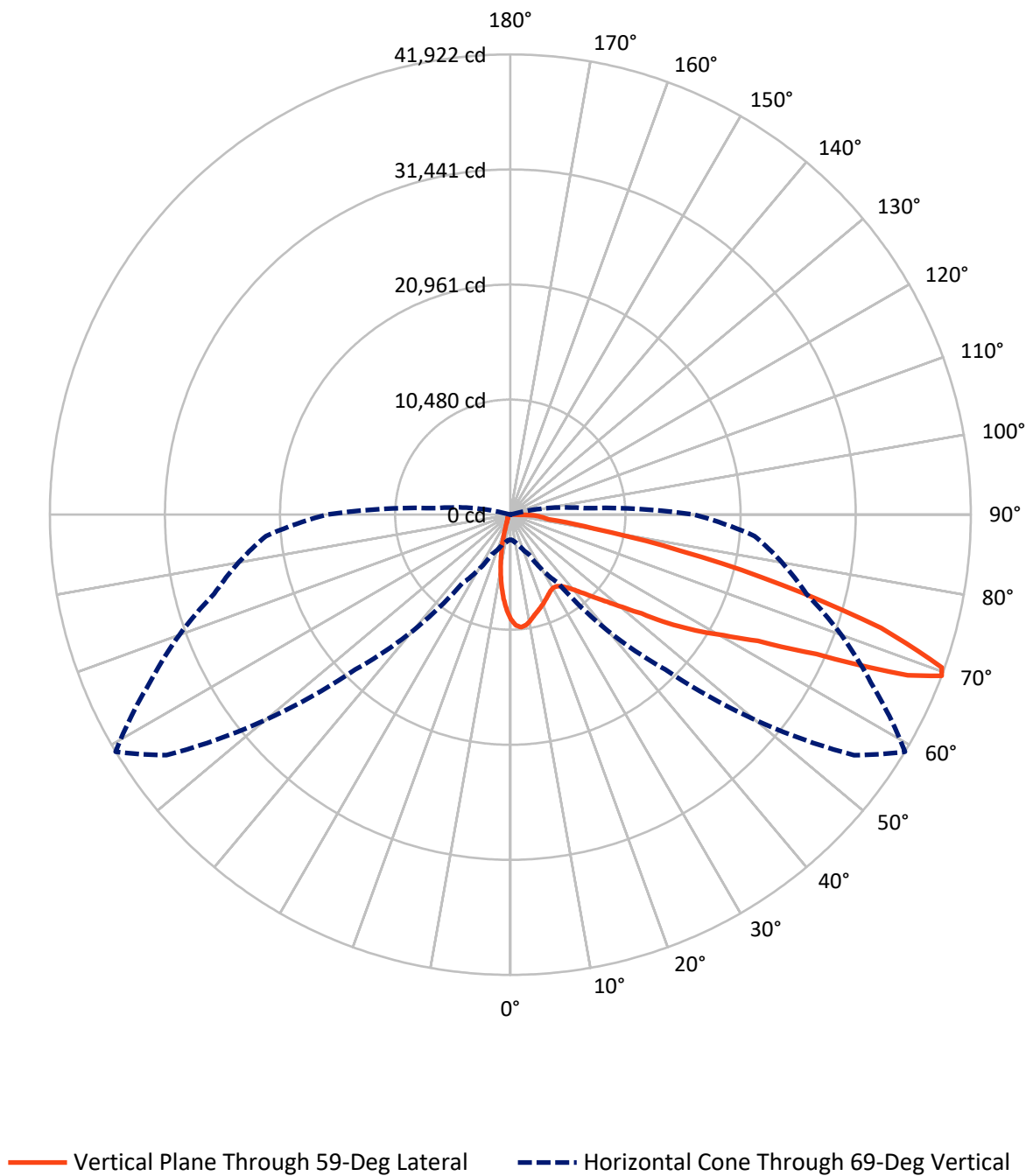


Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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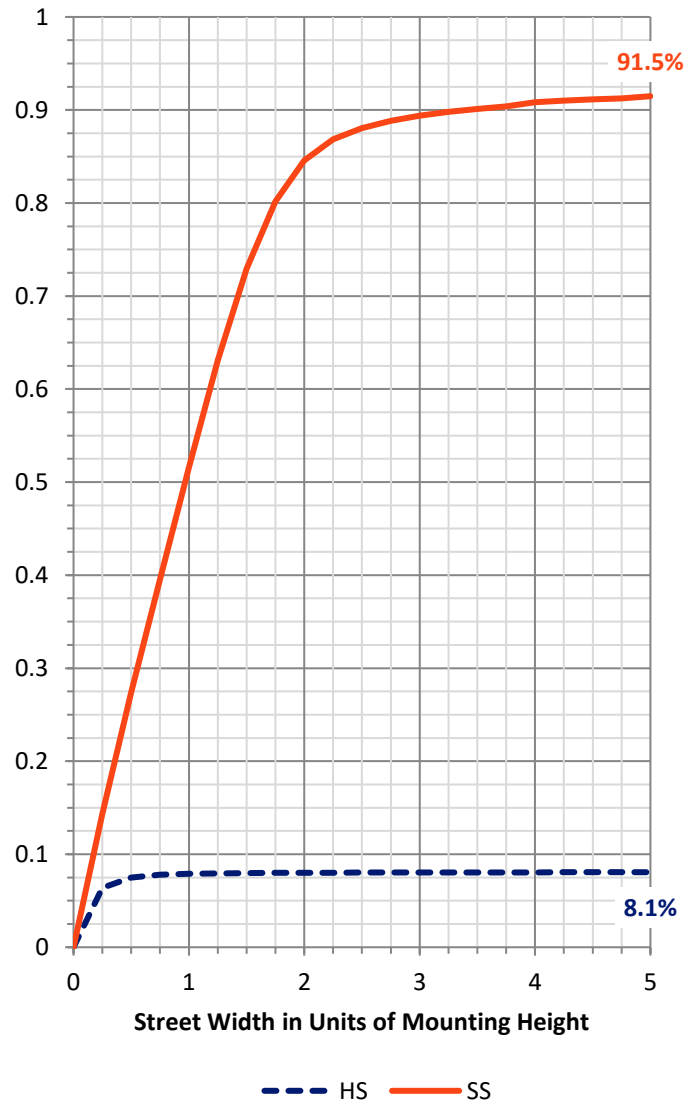
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2991.2	0.0	2991.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	33738.8	0.0	33738.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	36730.0	0.0	36730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.0	2.1
10°-20°	1603.5	4.4
20°-30°	2157.7	5.9
30°-40°	3132.8	8.5
40°-50°	5216.3	14.2
50°-60°	8137.4	22.2
60°-70°	10069.4	27.4
70°-80°	5103.0	13.9
80°-90°	534.0	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°	36730.0	100.0
0°-180°	36730.0	100.0

Coefficient of Utilization



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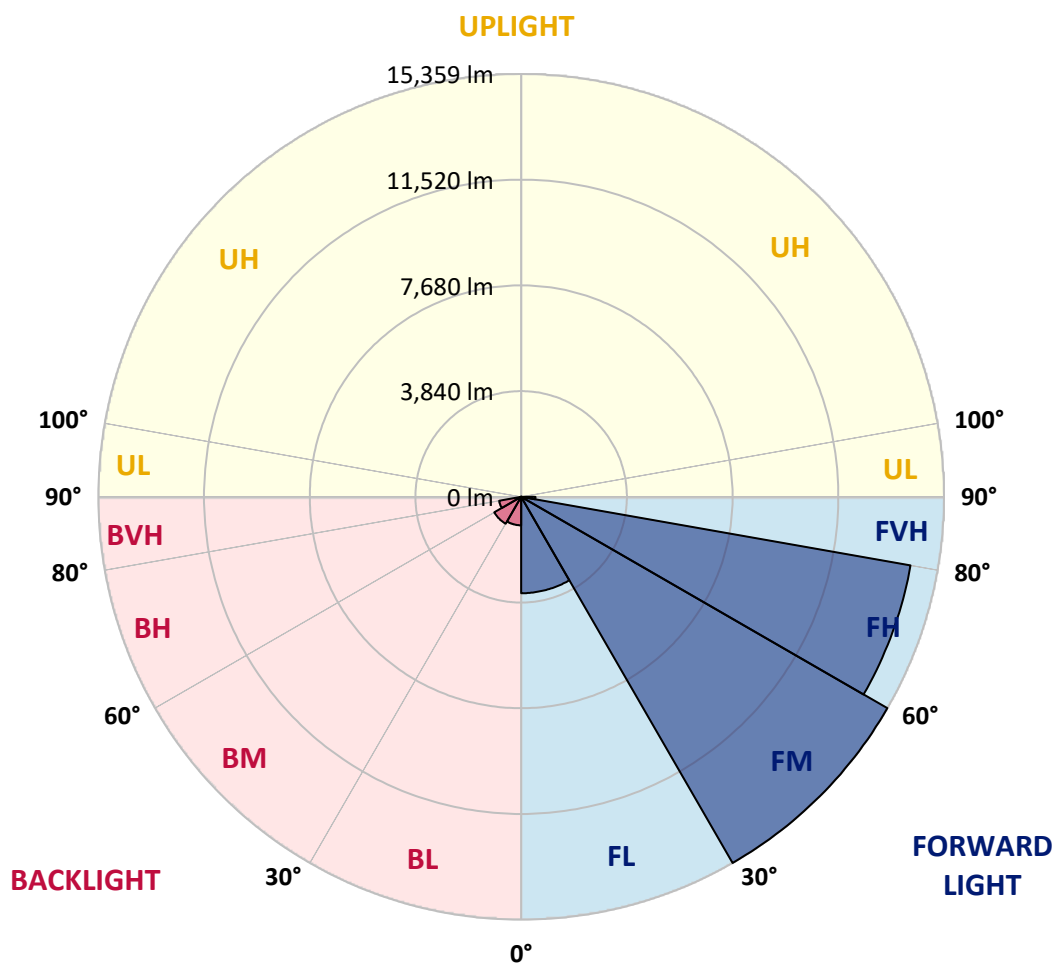
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3501.8	9.5			
FM	(30°-60°)	15359.4	41.8			
FH	(60°-80°)	14360.1	39.1			G5
FVH	(80°-90°)	517.5	1.4			G4/750
BL	(0°-30°)	1035.3	2.8	B3/2500		
BM	(30°-60°)	1127.1	3.1	B2/2500		
BH	(60°-80°)	812.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	16.4	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°	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3
2.5°	10478.3	10474.2	10428.5	10407.7	10370.3	10291.4	10168.9	10104.5	10000.6	9819.9	9576.9
5°	10382.8	10432.6	10459.6	10461.7	10488.7	10459.6	10349.6	10295.6	10152.2	9861.5	9425.3
7.5°	9734.8	9753.5	9830.3	9896.8	10025.6	10148.1	10187.6	10164.7	10079.6	9768.0	9188.5
10°	9041.1	9059.8	9151.1	9238.4	9412.8	9601.9	9801.2	9842.8	9878.1	9635.1	8960.1
12.5°	8442.9	8461.6	8555.1	8669.3	8872.8	9105.5	9414.9	9483.5	9639.2	9508.4	8777.3
15°	7927.8	7936.1	8027.5	8168.7	8411.7	8710.8	9061.8	9171.9	9410.8	9419.1	8617.4
17.5°	7489.6	7510.3	7566.4	7701.4	7967.3	8337.0	8746.1	8904.0	9184.4	9344.3	8461.6
20°	7221.6	7242.4	7240.3	7315.1	7554.0	7948.6	8430.4	8619.4	8960.1	9267.5	8322.4
22.5°	7169.7	7169.7	7115.7	7105.3	7246.6	7576.8	8102.3	8332.8	8758.6	9234.2	8224.8
25°	7354.6	7346.3	7211.3	7101.2	7107.4	7304.7	7784.5	8058.7	8588.3	9257.1	8172.9
27.5°	7745.0	7734.7	7564.3	7354.6	7186.3	7184.3	7543.6	7838.5	8453.3	9365.1	8193.7
30°	8285.0	8280.9	8096.0	7832.3	7527.0	7246.6	7460.5	7728.4	8366.1	9560.3	8241.4
32.5°	8874.9	8868.7	8729.5	8451.2	8064.9	7527.0	7547.7	7772.0	8391.0	9819.9	8357.7
35°	9500.1	9489.7	9429.5	9186.5	8760.7	8044.1	7834.3	8008.8	8548.8	10208.3	8586.2
37.5°	10177.2	10187.6	10231.2	9998.6	9552.0	8769.0	8314.1	8432.5	8866.6	10735.9	8958.0
40°	11176.2	11174.1	11188.7	10883.3	10453.4	9655.9	8985.0	9022.4	9398.3	11435.8	9522.9
42.5°	12989.4	12862.7	12478.5	11855.4	11423.4	10669.4	9830.3	9790.9	10048.4	12301.9	10314.3
45°	15425.7	15155.7	14158.7	12964.5	12412.0	11811.8	10870.9	10744.2	10908.3	13342.5	11290.4
47.5°	17521.4	17241.0	15830.7	14119.3	13460.9	12895.9	12090.1	11861.6	11915.6	14507.7	12528.3
50°	18233.8	18096.7	16865.0	15124.5	14476.5	14260.5	13504.5	13226.2	13149.3	15855.6	13963.5
52.5°	17986.6	17976.2	17155.8	15776.7	15407.0	15672.8	15284.5	14962.5	14680.1	17276.3	15423.6
55°	17589.9	17641.8	17274.2	16347.9	16335.4	16962.6	17718.7	17450.7	16632.4	18819.5	16682.3
57.5°	16495.3	16717.6	17207.7	17427.9	17938.8	18580.6	19745.8	19903.6	18935.8	20001.3	17727.0
60°	13384.0	13872.1	15475.5	17583.7	20005.4	21604.7	22192.5	22327.5	20825.8	20983.7	19137.2
62.5°	9500.1	9998.6	12031.9	15598.1	20036.6	25577.9	25837.6	25307.9	22906.9	22439.6	21569.4
65°	5042.9	5427.1	7088.7	11259.3	17371.8	26500.1	32211.8	30633.3	26579.0	25303.8	24711.8
67.5°	2579.6	2695.9	3356.4	5510.2	11942.6	23538.3	37925.5	39036.7	32907.6	28145.1	24560.2
69°	2282.6	2351.1	2789.4	3983.6	7647.4	19936.9	38203.9	41921.6	36220.3	27908.3	22319.2
70°	2209.9	2270.1	2668.9	3605.6	5977.5	16719.6	37138.4	41668.3	37067.8	27006.9	20645.1
72.5°	1875.5	1927.4	2376.1	3186.1	4858.0	8299.6	30168.0	35308.6	33262.7	22497.8	14943.8
75°	1254.5	1424.8	2280.5	2986.7	4519.5	4714.7	19889.1	25515.6	23702.4	15174.4	7784.5
77.5°	301.2	324.0	643.9	2376.1	4133.2	4149.8	10229.1	15861.9	12937.5	5408.4	1840.2
80°	162.0	155.8	180.7	471.5	3848.6	3894.3	4604.7	7699.3	4619.2	897.3	606.5
82.5°	114.2	108.0	116.3	197.3	1210.9	3547.5	3331.5	3485.2	1915.0	344.8	272.1
85°	41.5	39.5	64.4	178.6	380.1	2039.6	3422.9	2874.5	1551.5	157.9	199.4
87.5°	14.5	12.5	24.9	97.6	116.3	868.2	2112.3	2172.5	610.6	95.5	93.5
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°	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3	9560.3
2.5°	9475.2	9346.4	9109.6	8866.6	8642.3	8372.3	8237.3	8104.4	8048.3	8027.5	7929.9
5°	9201.0	8982.9	8480.3	7975.6	7510.3	7016.0	6689.9	6428.2	6274.5	6199.8	6081.4
7.5°	8850.0	8492.7	7730.5	6951.6	6226.8	5512.3	4982.7	4575.6	4295.2	4160.2	4037.6
10°	8509.4	8033.7	6949.6	5888.2	4903.7	3956.6	3225.5	2695.9	2357.4	2201.6	2101.9
12.5°	8204.0	7587.2	6195.6	4851.8	3616.0	2506.9	1763.4	1341.7	1132.0	1059.3	1023.9
15°	7932.0	7175.9	5483.2	3867.3	2448.8	1433.1	963.7	820.4	787.2	787.2	783.0
17.5°	7674.4	6773.0	4795.7	2943.1	1537.0	876.5	733.2	714.5	714.5	722.8	722.8
20°	7427.3	6388.8	4131.1	2112.3	967.9	695.8	662.6	658.4	662.6	672.9	672.9
22.5°	7215.4	6039.8	3510.1	1449.7	718.6	627.2	610.6	604.4	606.5	612.7	616.9
25°	7057.6	5744.9	2924.4	982.4	618.9	571.2	552.5	542.1	533.8	533.8	537.9
27.5°	6957.9	5495.7	2357.4	714.5	556.6	519.2	490.2	473.6	454.9	444.5	448.6
30°	6885.2	5258.9	1825.7	583.6	498.5	461.1	423.7	396.7	369.7	357.2	361.4
32.5°	6858.2	5067.8	1364.6	515.1	446.5	405.0	359.3	324.0	294.9	284.5	286.6
35°	6930.9	4916.2	999.0	465.2	405.0	353.1	301.2	261.7	238.9	232.6	234.7
37.5°	7121.9	4835.2	747.7	423.7	367.6	309.5	251.3	213.9	199.4	199.4	201.5
40°	7483.3	4833.1	600.2	394.6	334.4	267.9	207.7	180.7	172.4	176.5	178.6
42.5°	8010.9	4943.2	523.4	367.6	305.3	228.5	172.4	153.7	151.6	155.8	157.9
45°	8731.6	5144.7	481.9	344.8	274.2	191.1	145.4	132.9	132.9	139.2	141.2
47.5°	9614.3	5439.6	446.5	321.9	243.0	159.9	124.6	116.3	118.4	124.6	126.7
50°	10677.7	5811.4	411.2	297.0	220.2	132.9	108.0	101.8	103.8	112.2	114.2
52.5°	11888.6	6311.9	382.2	274.2	191.1	110.1	91.4	87.2	91.4	99.7	101.8
55°	12927.1	6760.6	346.9	255.5	153.7	91.4	74.8	74.8	78.9	89.3	91.4
57.5°	13926.1	7229.9	315.7	220.2	120.5	72.7	62.3	64.4	70.6	81.0	83.1
60°	15392.5	8025.4	278.3	184.9	91.4	58.2	51.9	54.0	62.3	72.7	74.8
62.5°	17882.7	9236.3	240.9	153.7	70.6	45.7	41.5	45.7	56.1	68.5	70.6
65°	20130.0	9728.5	197.3	128.8	54.0	35.3	35.3	41.5	54.0	66.5	68.5
67.5°	18877.6	8189.5	153.7	101.8	41.5	27.0	29.1	39.5	51.9	66.5	68.5
69°	16694.7	6696.2	130.8	81.0	35.3	24.9	27.0	39.5	51.9	64.4	66.5
70°	14993.7	5653.5	116.3	68.5	31.2	24.9	27.0	37.4	51.9	64.4	66.5
72.5°	10042.2	3053.2	93.5	49.8	29.1	22.8	22.8	37.4	49.8	62.3	64.4
75°	4316.0	843.3	74.8	35.3	24.9	20.8	20.8	35.3	47.8	60.2	64.4
77.5°	789.3	213.9	60.2	31.2	24.9	20.8	18.7	33.2	45.7	58.2	60.2
80°	313.6	105.9	47.8	27.0	22.8	18.7	16.6	31.2	43.6	56.1	58.2
82.5°	189.0	60.2	39.5	24.9	22.8	16.6	14.5	27.0	41.5	54.0	56.1
85°	153.7	41.5	31.2	24.9	20.8	16.6	12.5	24.9	37.4	51.9	54.0
87.5°	74.8	29.1	29.1	22.8	20.8	16.6	12.5	22.8	35.3	49.8	51.9
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)