

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: P192964

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30656 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 382
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

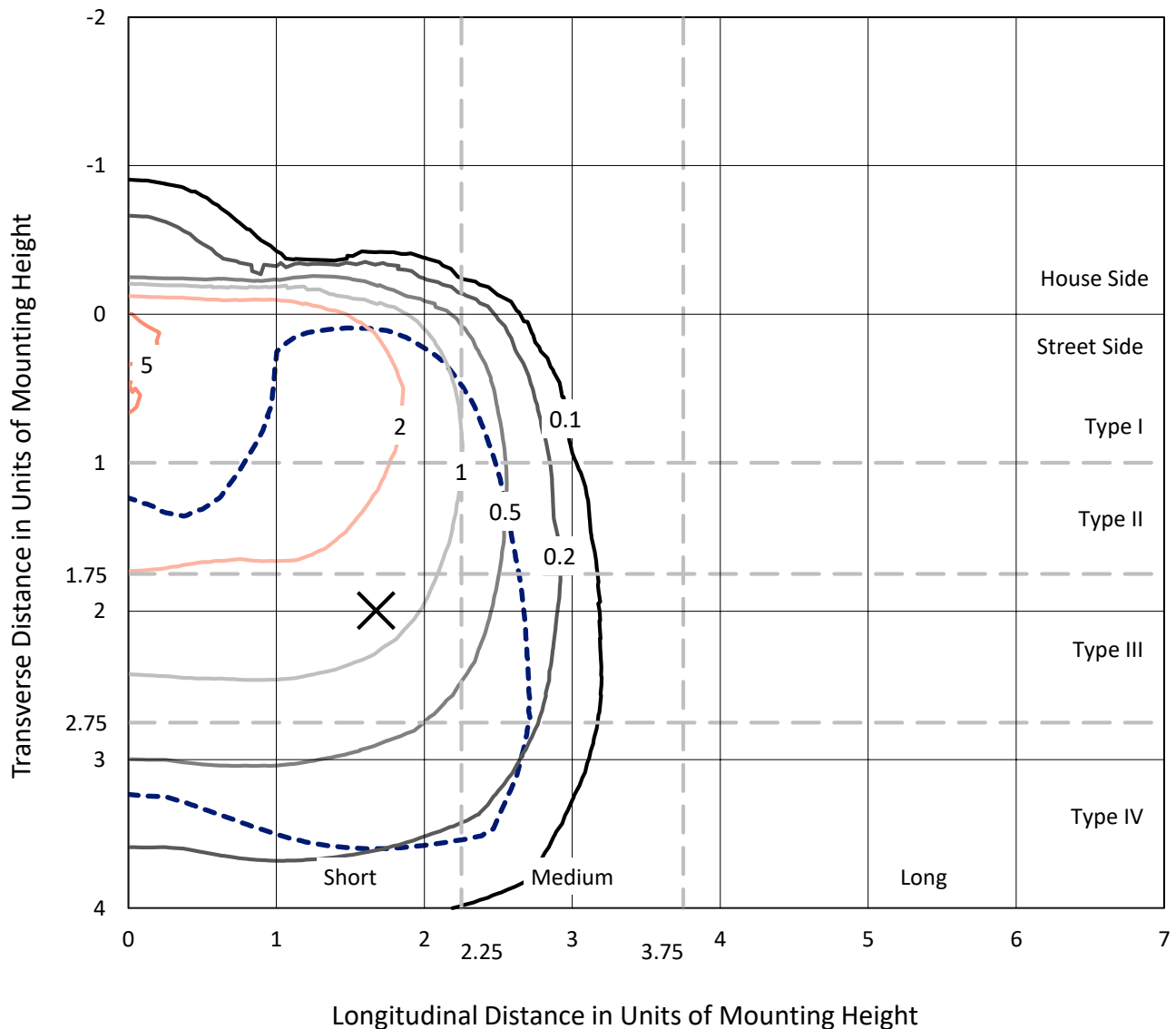


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

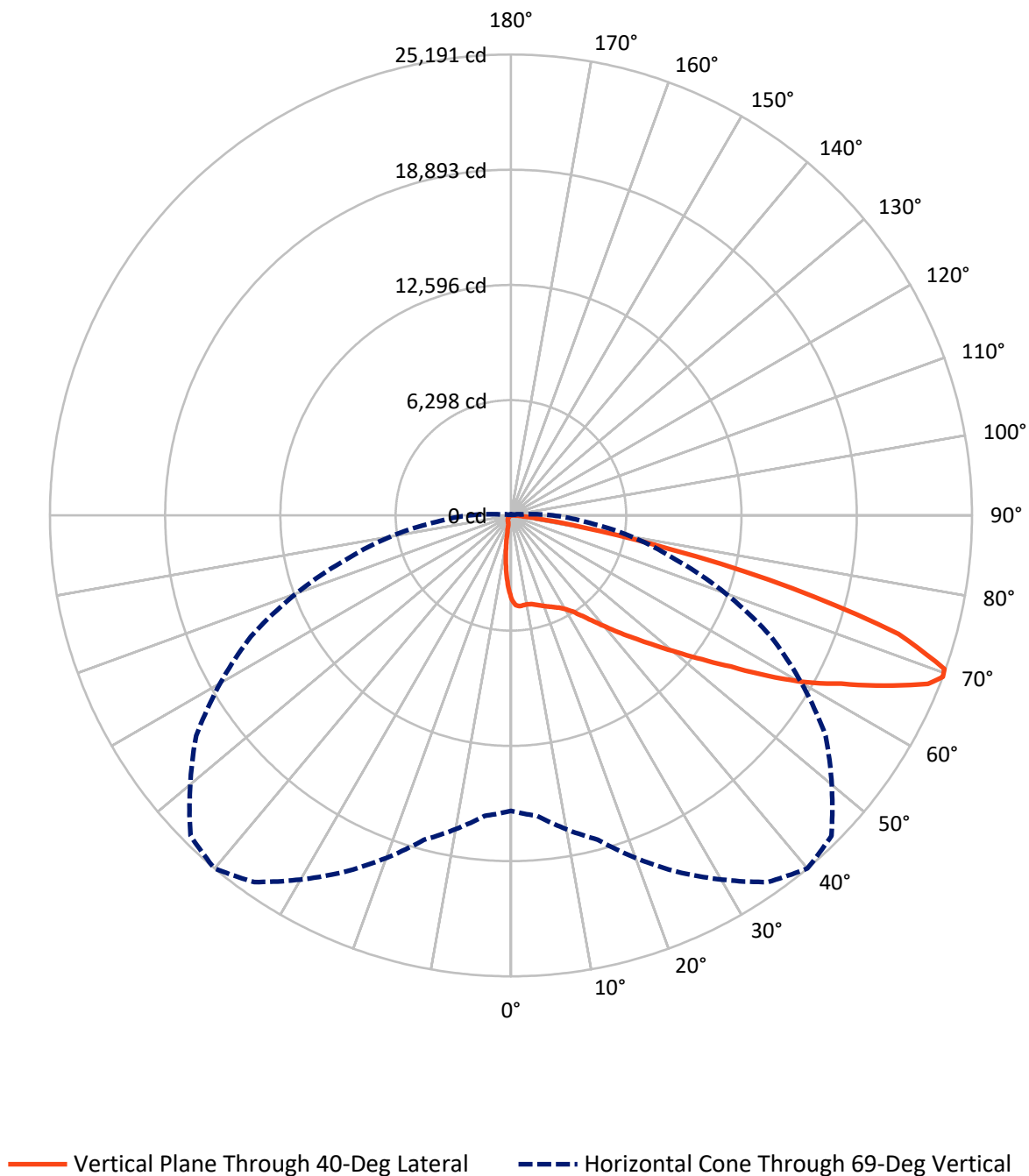


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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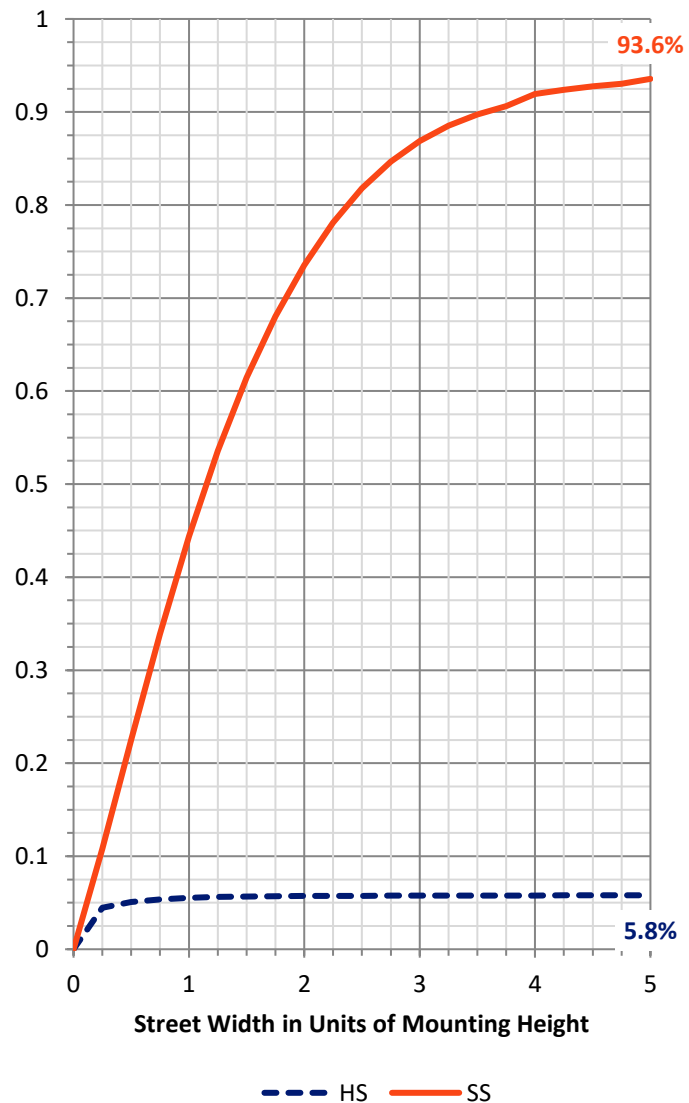
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1793.5	0.0	1793.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	28862.4	0.0	28862.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	30656.0	0.0	30656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	1.2
10°-20°	913.2	3.0
20°-30°	1538.2	5.0
30°-40°	2518.1	8.2
40°-50°	4360.0	14.2
50°-60°	6867.5	22.4
60°-70°	8968.6	29.3
70°-80°	4619.2	15.1
80°-90°	499.7	1.6
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°	30656.0	100.0
0°-180°	30656.0	100.0

Coefficient of Utilization



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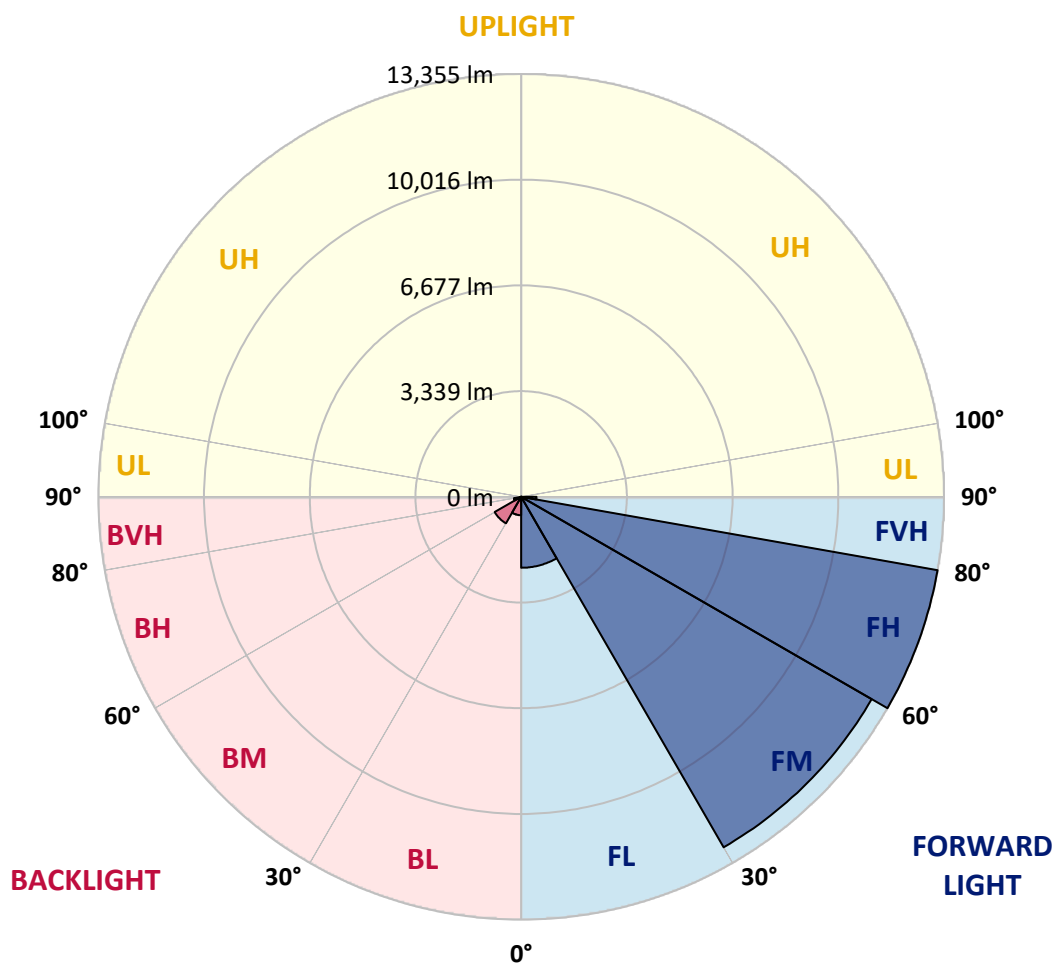
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.8	7.3			
FM	(30°-60°)	12781.6	41.7			
FH	(60°-80°)	13355.0	43.6			G5
FVH	(80°-90°)	484.0	1.6			G3/500
BL	(0°-30°)	581.0	1.9	B2/1000		
BM	(30°-60°)	964.0	3.1	B1/1000		
BH	(60°-80°)	232.9	0.8	B1/500		G1/500
BVH	(80°-90°)	15.7	0.1			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1
2.5°	5029.1	5001.7	4985.3	4963.3	4936.0	4912.3	4903.1	4835.6	4771.8	4684.2	4583.8
5°	5122.1	5113.0	5083.9	5054.6	5021.8	4985.3	4965.2	4884.9	4793.6	4665.9	4490.8
7.5°	5131.3	5120.3	5083.9	5043.6	4998.1	4954.3	4919.6	4839.3	4755.3	4625.8	4412.3
10°	5116.6	5103.8	5076.5	5032.7	4976.1	4934.1	4899.5	4822.8	4751.6	4634.9	4397.6
12.5°	5100.2	5087.4	5074.6	5052.8	5003.5	4974.3	4945.1	4872.1	4808.3	4709.7	4450.5
15°	5116.6	5109.3	5123.9	5114.9	5087.4	5061.9	5032.7	4967.0	4908.6	4826.5	4547.3
17.5°	5186.0	5186.0	5231.6	5237.2	5211.5	5175.1	5133.1	5067.3	5018.1	4948.8	4662.3
20°	5348.3	5342.9	5401.3	5412.2	5350.2	5293.6	5231.6	5151.3	5113.0	5069.2	4775.4
22.5°	5627.6	5602.0	5636.6	5625.8	5503.5	5415.9	5339.3	5240.7	5220.6	5200.6	4901.4
25°	5990.6	5976.2	5999.9	5892.2	5676.9	5558.2	5467.0	5355.7	5355.7	5375.8	5043.6
27.5°	6518.1	6463.3	6383.0	6193.3	5870.3	5718.8	5620.3	5501.6	5532.7	5607.5	5231.6
30°	7058.1	6997.9	6813.6	6521.6	6105.6	5946.9	5831.9	5707.8	5780.9	5917.7	5483.4
32.5°	7591.0	7523.5	7262.6	6893.9	6443.2	6284.5	6173.1	6036.3	6158.6	6388.5	5852.0
35°	8107.5	8047.2	7746.2	7311.8	6892.2	6760.8	6658.6	6539.9	6696.9	7018.0	6372.1
37.5°	8687.8	8621.9	8255.2	7784.4	7437.8	7342.9	7268.0	7149.4	7423.2	7894.0	7096.5
40°	9401.2	9289.9	8795.4	8326.4	8069.2	8023.5	7972.4	7955.9	8381.2	9032.6	8061.8
42.5°	10218.7	10036.2	9361.0	8897.5	8762.5	8795.4	8782.6	8855.6	9580.0	10448.6	9237.0
45°	11036.2	10800.9	9990.5	9506.9	9525.2	9640.3	9711.4	10003.3	11081.8	12072.6	10501.6
47.5°	11729.6	11497.8	10594.6	10165.8	10384.8	10611.0	10804.4	11357.3	12625.6	13671.2	11485.2
50°	12322.6	12103.6	11235.0	10890.2	11382.8	11747.9	12061.6	12881.0	14286.0	14888.2	12174.9
52.5°	12808.0	12662.0	11899.3	11720.5	12523.4	13058.0	13517.9	14499.6	15756.9	15877.2	12711.3
55°	13280.7	13176.6	12612.8	12707.6	13862.7	14590.8	15173.0	16216.7	17023.2	16702.0	13226.0
57.5°	13824.5	13729.5	13426.7	13959.4	15623.6	16539.6	17174.7	17738.6	18138.1	17545.1	13711.3
60°	14379.2	14324.4	14331.6	15350.0	17645.5	18525.0	18875.4	19021.4	19233.0	18338.8	13738.7
62.5°	14908.3	15012.3	15366.3	16897.3	19581.6	20256.6	20433.6	20577.9	20329.7	18464.9	12693.0
65°	15804.3	15974.0	16818.9	18968.4	21711.0	22433.6	22616.1	22121.6	20503.0	16837.1	10324.6
67.5°	16242.3	16552.4	18059.7	20899.0	23776.7	24579.6	24512.1	22222.0	18399.1	12839.0	6625.7
69°	16151.0	16481.3	18346.2	21490.2	24462.8	25191.0	24762.1	20993.9	15674.8	9300.8	4067.4
70°	15789.7	16123.6	18198.3	21468.4	24550.3	25127.0	24298.6	19477.5	13253.2	6800.9	2543.8
72.5°	13185.7	13474.1	16156.5	19404.6	22616.1	22147.2	20327.9	13494.2	6457.9	1852.2	572.9
75°	8116.6	8277.2	11592.7	14618.3	17081.6	15877.2	13543.4	6713.3	1925.1	523.7	317.5
77.5°	4288.2	4361.2	6346.6	8616.5	10828.1	8959.6	6941.4	2618.5	886.8	328.5	229.9
80°	2534.6	2589.3	3417.7	3939.7	4686.0	3914.1	2775.5	1607.6	635.1	206.2	204.5
82.5°	1450.6	1485.4	2478.0	2189.7	1846.7	1576.6	1381.4	1523.7	381.5	138.6	211.6
85°	532.8	540.2	1394.1	1665.9	1098.5	653.3	686.1	1262.7	102.1	87.6	166.1
87.5°	248.1	242.7	717.2	1020.1	642.3	414.2	534.6	277.4	40.1	56.6	45.7
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°	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1	4580.1
2.5°	4525.4	4457.9	4335.6	4209.8	4082.0	3983.5	3886.8	3810.1	3784.5	3737.1	3740.8
5°	4386.8	4262.6	4007.2	3748.0	3478.0	3255.4	3045.5	2875.8	2793.8	2709.7	2709.7
7.5°	4266.2	4085.6	3686.0	3264.5	2828.4	2461.6	2131.3	1883.2	1746.3	1636.8	1634.9
10°	4220.6	3976.2	3417.7	2813.8	2206.2	1706.2	1313.9	1062.0	932.4	848.5	844.9
12.5°	4240.8	3937.8	3211.5	2397.7	1634.9	1096.6	760.9	598.5	543.8	518.2	518.2
15°	4299.2	3926.9	3005.4	1990.8	1155.1	686.1	505.5	461.6	458.1	458.1	458.1
17.5°	4370.3	3930.5	2793.8	1594.8	786.4	490.9	436.2	430.6	434.3	434.3	434.3
20°	4443.3	3932.3	2565.6	1228.1	554.7	426.9	410.6	408.7	412.4	412.4	414.2
22.5°	4532.7	3941.5	2337.5	917.9	458.1	403.2	390.5	390.5	392.3	392.3	390.5
25°	4634.9	3959.8	2100.3	680.6	417.9	386.9	375.9	374.1	375.9	374.1	372.2
27.5°	4762.6	3985.2	1835.7	532.8	399.7	370.4	361.3	361.3	359.5	357.6	355.8
30°	4923.2	4014.5	1538.3	452.6	381.5	355.8	346.7	344.9	343.1	339.4	339.4
32.5°	5167.8	4078.3	1244.5	410.6	361.3	335.8	328.5	328.5	324.8	321.1	319.4
35°	5543.6	4204.3	981.7	385.0	339.4	313.9	304.8	304.8	301.1	299.3	297.4
37.5°	6063.7	4395.8	762.7	361.3	317.5	290.1	281.1	279.1	275.6	271.8	270.1
40°	6755.3	4633.0	600.4	339.4	295.6	266.4	259.2	255.4	248.1	242.7	242.7
42.5°	7623.9	4903.1	487.2	315.6	270.1	244.5	239.1	233.6	220.8	215.3	213.5
45°	8532.6	5145.8	412.4	288.3	244.5	222.7	218.9	209.9	193.4	187.9	187.9
47.5°	9187.7	5202.4	363.2	262.8	220.8	198.9	197.1	180.6	166.1	162.4	160.6
50°	9596.5	5091.1	323.0	237.2	198.9	177.0	171.5	151.5	142.4	138.6	136.9
52.5°	9872.0	4892.2	290.1	215.3	178.8	156.9	144.1	129.6	122.3	118.6	118.6
55°	10092.9	4611.2	257.3	195.2	162.4	140.5	122.3	111.3	104.1	100.4	100.4
57.5°	10154.8	4229.8	224.4	178.8	146.0	124.1	104.1	96.7	87.6	85.8	85.8
60°	9704.1	3541.8	198.9	158.8	131.3	107.6	91.2	82.2	72.9	71.1	69.4
62.5°	8516.2	2740.8	175.2	140.5	114.9	93.1	78.4	67.5	60.2	60.2	60.2
65°	6496.1	1837.5	153.3	122.3	100.4	78.4	67.5	54.7	51.2	51.2	52.9
67.5°	3888.5	999.9	131.3	104.1	85.8	65.7	56.6	47.4	45.7	47.4	47.4
69°	2279.1	587.6	118.6	93.1	74.9	58.4	49.2	41.9	45.7	47.4	47.4
70°	1406.9	395.9	109.5	83.9	67.5	52.9	45.7	40.1	43.8	45.7	45.7
72.5°	392.3	204.5	87.6	65.7	54.7	43.8	36.5	36.5	41.9	43.8	43.8
75°	255.4	151.5	67.5	49.2	41.9	34.6	31.0	34.6	40.1	41.9	41.9
77.5°	211.6	124.1	54.7	40.1	34.6	32.9	29.2	31.0	36.5	38.4	38.4
80°	193.4	87.6	43.8	36.5	31.0	29.2	27.5	25.5	32.9	34.6	34.6
82.5°	184.3	69.4	38.4	32.9	29.2	25.5	23.7	25.5	29.2	31.0	32.9
85°	114.9	45.7	34.6	31.0	25.5	23.7	23.7	23.7	27.5	29.2	29.2
87.5°	41.9	36.5	31.0	25.5	21.9	21.9	21.9	21.9	23.7	27.5	27.5
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)