

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: P192961

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192961
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-03-LED-E1-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 15649.2 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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



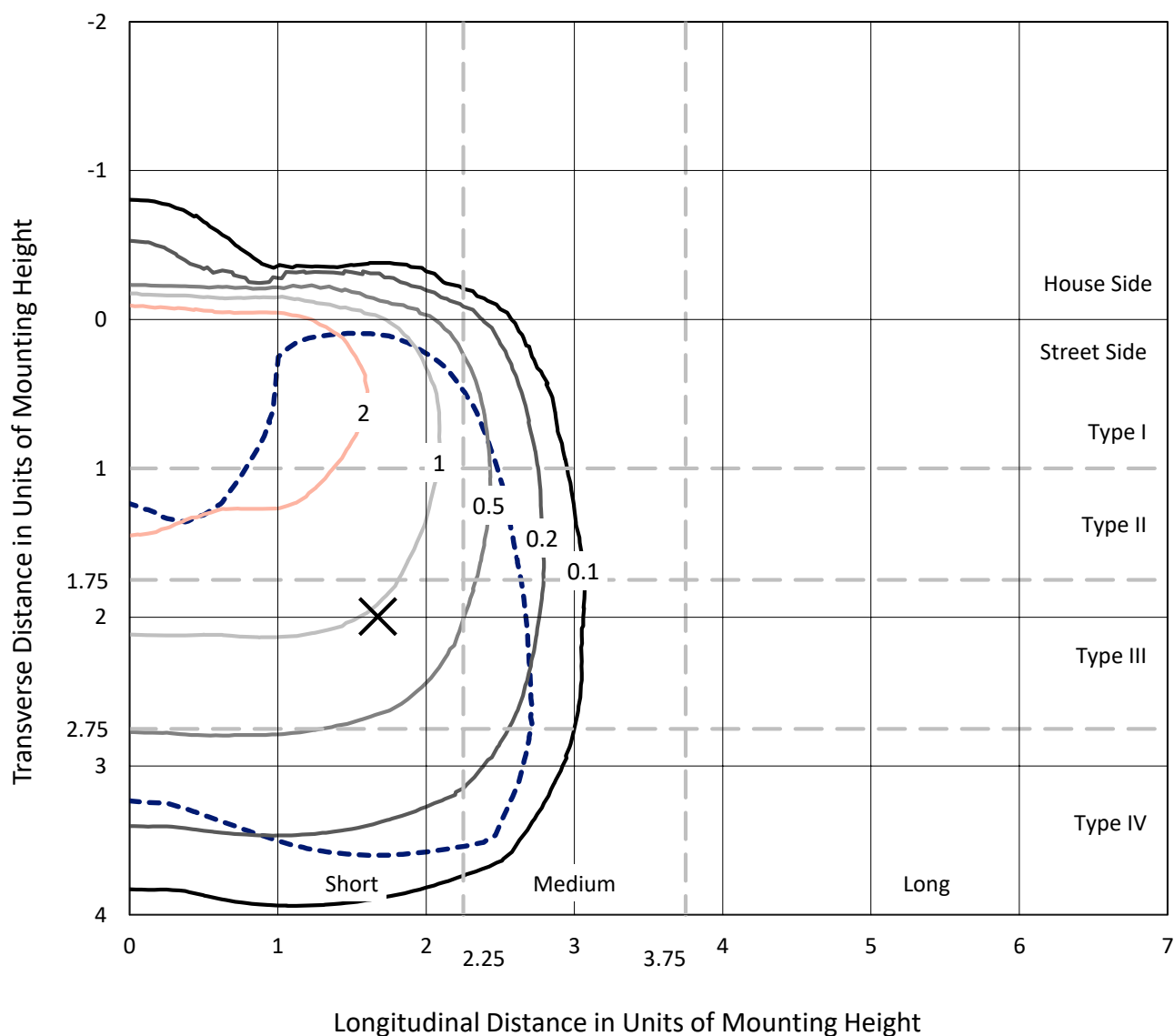
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

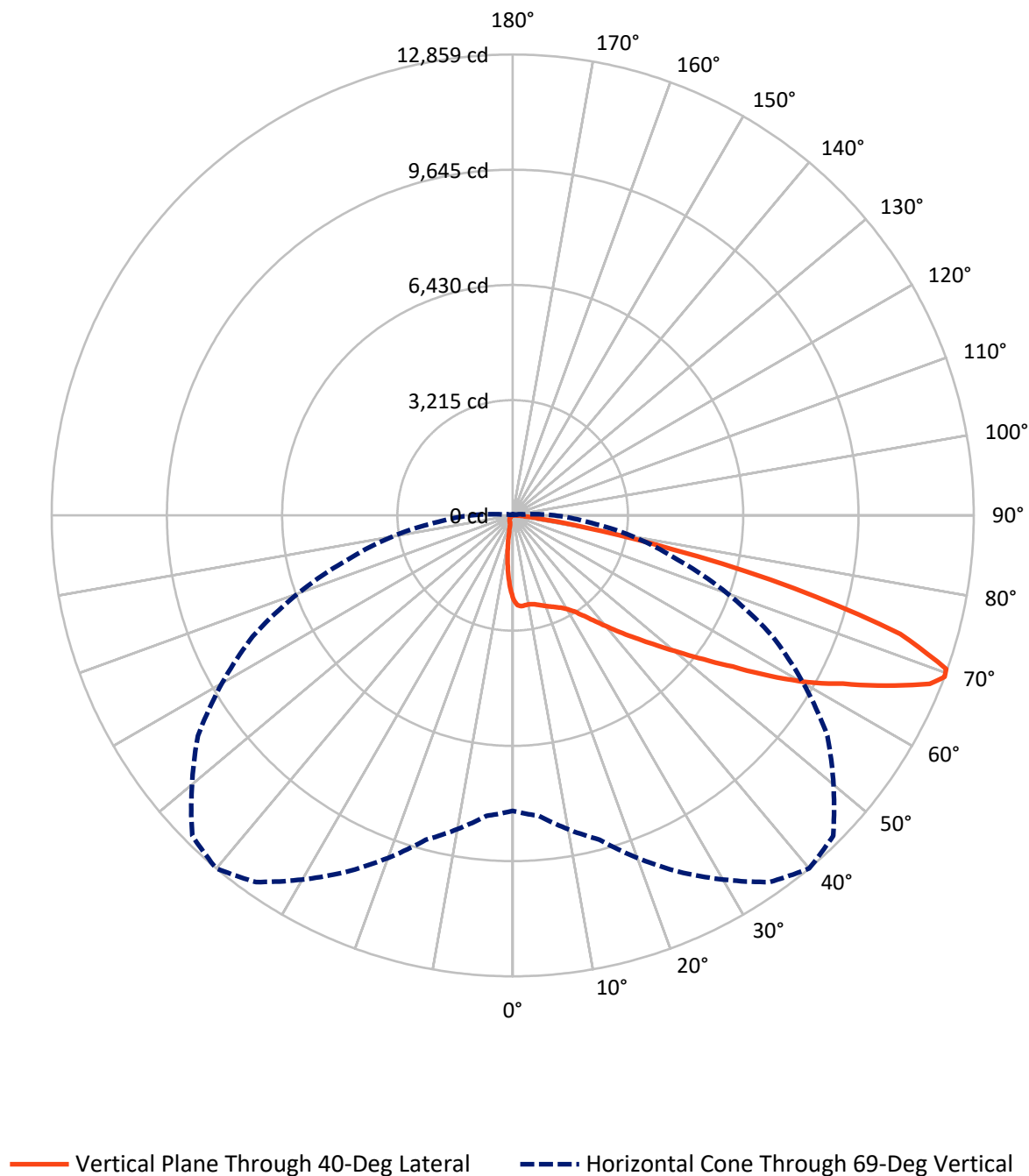


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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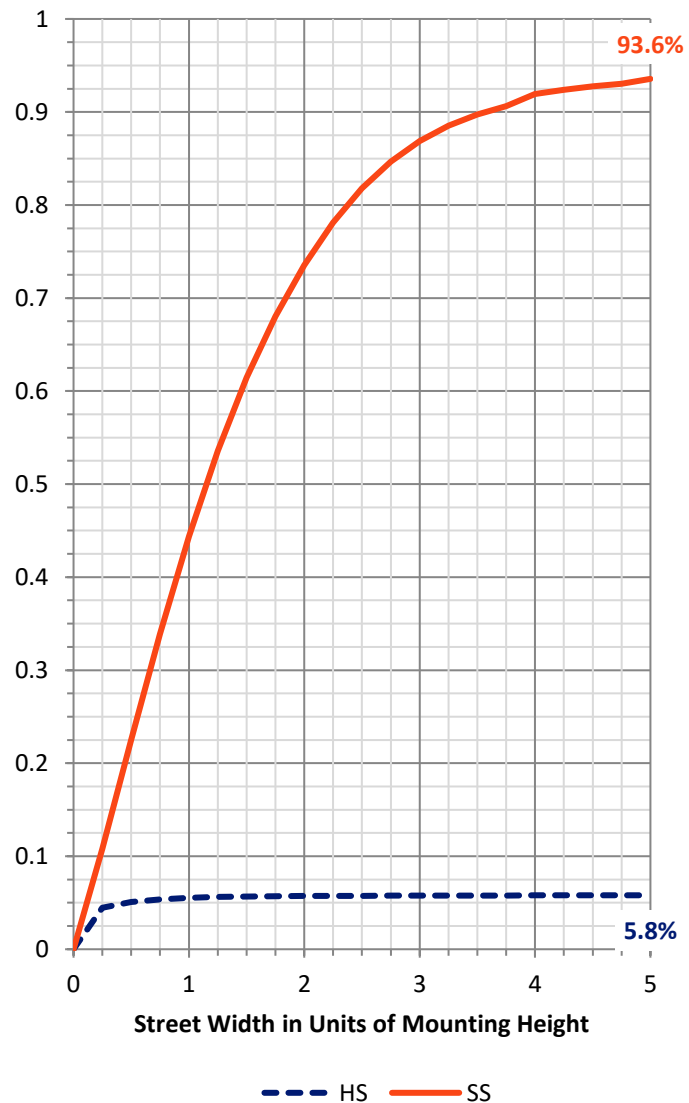
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	915.6	0.0	915.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	14733.6	0.0	14733.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	15649.2	0.0	15649.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.2
10°-20°	466.2	3.0
20°-30°	785.2	5.0
30°-40°	1285.4	8.2
40°-50°	2225.7	14.2
50°-60°	3505.7	22.4
60°-70°	4578.3	29.3
70°-80°	2358.0	15.1
80°-90°	255.1	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°	15649.2	100.0
0°-180°	15649.2	100.0

Coefficient of Utilization



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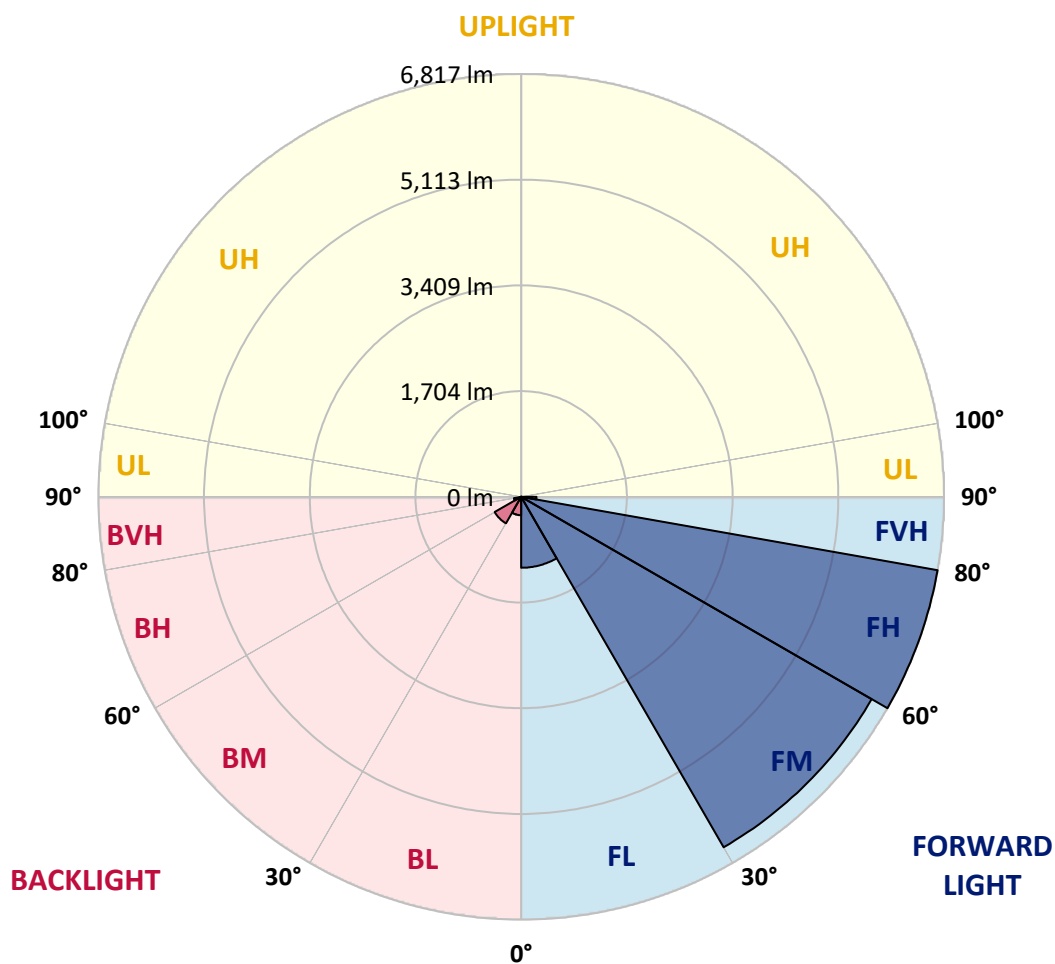
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.4	7.3			
FM	(30°-60°)	6524.7	41.7			
FH	(60°-80°)	6817.4	43.6			G3/7500
FVH	(80°-90°)	247.1	1.6			G3/500
BL	(0°-30°)	296.6	1.9	B1/500		
BM	(30°-60°)	492.1	3.1	B1/1000		
BH	(60°-80°)	118.9	0.8	B1/500		G1/500
BVH	(80°-90°)	8.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2.5°	2567.3	2553.3	2544.8	2533.7	2519.7	2507.6	2502.9	2468.5	2435.8	2391.1	2339.9
5°	2614.7	2610.1	2595.1	2580.2	2563.4	2544.8	2534.6	2493.7	2447.1	2381.9	2292.5
7.5°	2619.4	2613.8	2595.1	2574.7	2551.4	2529.1	2511.4	2470.4	2427.5	2361.3	2252.4
10°	2612.0	2605.4	2591.4	2569.1	2540.2	2518.8	2501.1	2461.9	2425.7	2366.0	2245.0
12.5°	2603.5	2597.0	2590.5	2579.3	2554.2	2539.3	2524.3	2487.1	2454.5	2404.2	2271.9
15°	2612.0	2608.2	2615.6	2611.0	2597.0	2584.0	2569.1	2535.6	2505.8	2463.8	2321.3
17.5°	2647.4	2647.4	2670.7	2673.5	2660.4	2641.8	2620.4	2586.8	2561.6	2526.2	2380.0
20°	2730.3	2727.4	2757.2	2762.8	2731.2	2702.3	2670.7	2629.7	2610.1	2587.7	2437.8
22.5°	2872.8	2859.8	2877.5	2871.8	2809.4	2764.7	2725.6	2675.3	2665.1	2654.8	2502.0
25°	3058.1	3050.6	3062.7	3007.8	2897.9	2837.4	2790.8	2734.0	2734.0	2744.1	2574.7
27.5°	3327.4	3299.4	3258.4	3161.5	2996.7	2919.3	2869.0	2808.5	2824.4	2862.5	2670.7
30°	3603.1	3572.3	3478.3	3329.2	3116.8	3035.8	2977.1	2913.7	2951.0	3020.9	2799.1
32.5°	3875.1	3840.6	3707.3	3519.2	3289.1	3208.1	3151.2	3081.4	3143.8	3261.2	2987.3
35°	4138.6	4107.9	3954.2	3732.6	3518.2	3451.2	3399.0	3338.5	3418.6	3582.6	3252.7
37.5°	4434.9	4401.4	4214.1	3973.8	3796.8	3748.3	3710.2	3649.6	3789.3	4029.7	3622.6
40°	4799.1	4742.3	4489.8	4250.4	4119.1	4095.8	4069.7	4061.3	4278.4	4611.0	4115.4
42.5°	5216.4	5123.2	4778.6	4542.0	4473.1	4489.8	4483.4	4520.6	4890.3	5333.8	4715.3
45°	5633.7	5513.6	5100.0	4853.1	4862.5	4921.1	4957.4	5106.4	5657.0	6162.8	5360.8
47.5°	5987.7	5869.4	5408.4	5189.4	5301.2	5416.6	5515.4	5797.7	6445.1	6978.8	5862.9
50°	6290.4	6178.6	5735.2	5559.2	5810.7	5997.0	6157.2	6575.4	7292.7	7600.2	6215.0
52.5°	6538.2	6463.7	6074.4	5983.0	6392.9	6665.8	6900.6	7401.8	8043.5	8105.0	6488.8
55°	6779.4	6726.3	6438.5	6486.9	7076.6	7448.3	7745.5	8278.2	8689.9	8526.0	6751.5
57.5°	7057.0	7008.7	6854.0	7126.0	7975.5	8443.1	8767.3	9055.2	9259.1	8956.4	6999.2
60°	7340.2	7312.2	7316.0	7835.7	9007.7	9456.6	9635.5	9710.0	9818.0	9361.6	7013.3
62.5°	7610.4	7663.5	7844.2	8625.7	9995.9	10340.7	10431.0	10504.5	10377.9	9425.9	6479.5
65°	8067.7	8154.3	8585.7	9683.0	11083.0	11451.9	11545.0	11292.6	10466.4	8595.0	5270.4
67.5°	8291.3	8449.7	9219.1	10668.5	12137.5	12547.4	12512.9	11343.9	9392.4	6554.0	3382.3
69°	8244.7	8413.3	9365.3	10970.2	12487.7	12859.4	12640.5	10716.9	8001.6	4747.9	2076.4
70°	8060.3	8230.7	9289.9	10959.1	12532.5	12826.8	12403.8	9942.8	6765.6	3471.7	1298.5
72.5°	6731.0	6878.2	8247.6	9905.6	11545.0	11305.6	10376.9	6888.5	3296.6	945.5	292.5
75°	4143.3	4225.3	5917.8	7462.3	8719.8	8105.0	6913.6	3427.0	982.8	267.3	162.0
77.5°	2189.0	2226.2	3239.7	4398.6	5527.5	4573.7	3543.4	1336.7	452.7	167.7	117.4
80°	1293.8	1321.8	1744.7	2011.1	2392.1	1998.1	1416.8	820.6	324.2	105.2	104.4
82.5°	740.6	758.3	1265.0	1117.8	942.7	804.8	705.2	777.8	194.7	70.8	108.0
85°	271.9	275.8	711.8	850.5	560.7	333.5	350.2	644.6	52.1	44.7	84.7
87.5°	126.6	123.9	366.1	520.7	327.9	211.4	272.9	141.6	20.5	28.9	23.3
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°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2.5°	2310.2	2275.7	2213.3	2149.0	2083.8	2033.5	1984.1	1945.0	1931.9	1907.6	1909.7
5°	2239.4	2176.0	2045.6	1913.3	1775.5	1661.9	1554.6	1468.0	1426.2	1383.3	1383.3
7.5°	2177.9	2085.6	1881.7	1666.4	1443.9	1256.6	1088.0	961.3	891.4	835.5	834.6
10°	2154.6	2029.7	1744.7	1436.4	1126.1	870.9	670.7	542.2	476.1	433.1	431.2
12.5°	2164.9	2010.2	1639.4	1224.0	834.6	559.9	388.4	305.5	277.6	264.5	264.5
15°	2194.6	2004.6	1534.2	1016.2	589.7	350.2	258.1	235.7	233.9	233.9	233.9
17.5°	2231.0	2006.4	1426.2	814.1	401.5	250.5	222.7	219.8	221.7	221.7	221.7
20°	2268.2	2007.4	1309.7	626.9	283.2	218.0	209.6	208.6	210.6	210.6	211.4
22.5°	2313.9	2012.0	1193.2	468.5	233.9	205.9	199.3	199.3	200.3	200.3	199.3
25°	2366.0	2021.4	1072.2	347.5	213.3	197.4	191.9	190.9	191.9	190.9	190.0
27.5°	2431.2	2034.4	937.1	271.9	204.0	189.1	184.4	184.4	183.5	182.6	181.6
30°	2513.2	2049.2	785.2	231.0	194.7	181.6	177.0	176.0	175.2	173.2	173.2
32.5°	2638.1	2081.9	635.3	209.6	184.4	171.4	167.7	167.7	165.8	164.0	163.1
35°	2830.0	2146.2	501.2	196.5	173.2	160.2	155.5	155.5	153.7	152.8	151.9
37.5°	3095.5	2243.9	389.4	184.4	162.0	148.1	143.4	142.5	140.6	138.8	137.8
40°	3448.4	2365.1	306.5	173.2	150.9	136.0	132.3	130.4	126.6	123.9	123.9
42.5°	3891.9	2502.9	248.7	161.1	137.8	124.8	122.1	119.2	112.7	110.0	108.9
45°	4355.7	2626.8	210.6	147.2	124.8	113.6	111.8	107.1	98.8	95.9	95.9
47.5°	4690.1	2655.8	185.4	134.2	112.7	101.5	100.6	92.3	84.7	82.9	82.0
50°	4898.7	2598.8	164.9	121.1	101.5	90.3	87.5	77.3	72.6	70.8	69.8
52.5°	5039.5	2497.3	148.1	110.0	91.3	80.1	73.6	66.1	62.4	60.5	60.5
55°	5152.1	2353.9	131.3	99.7	82.9	71.7	62.4	56.9	53.1	51.3	51.3
57.5°	5183.8	2159.2	114.6	91.3	74.6	63.4	53.1	49.3	44.7	43.8	43.8
60°	4953.7	1808.0	101.5	81.1	67.0	54.9	46.6	41.9	37.2	36.3	35.4
62.5°	4347.3	1399.1	89.4	71.7	58.7	47.5	40.1	34.4	30.7	30.7	30.7
65°	3316.1	938.0	78.2	62.4	51.3	40.1	34.4	28.0	26.1	26.1	27.0
67.5°	1985.0	510.5	67.0	53.1	43.8	33.6	28.9	24.2	23.3	24.2	24.2
69°	1163.4	299.9	60.5	47.5	38.2	29.8	25.1	21.5	23.3	24.2	24.2
70°	718.2	202.1	55.9	42.8	34.4	27.0	23.3	20.5	22.4	23.3	23.3
72.5°	200.3	104.4	44.7	33.6	28.0	22.4	18.7	18.7	21.5	22.4	22.4
75°	130.4	77.3	34.4	25.1	21.5	17.7	15.9	17.7	20.5	21.5	21.5
77.5°	108.0	63.4	28.0	20.5	17.7	16.7	14.9	15.9	18.7	19.5	19.5
80°	98.8	44.7	22.4	18.7	15.9	14.9	13.9	13.0	16.7	17.7	17.7
82.5°	94.1	35.4	19.5	16.7	14.9	13.0	12.1	13.0	14.9	15.9	16.7
85°	58.7	23.3	17.7	15.9	13.0	12.1	12.1	12.1	13.9	14.9	14.9
87.5°	21.5	18.7	15.9	13.0	11.2	11.2	11.2	11.2	12.1	13.9	13.9
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)