

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: P194534

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194534
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-SL4-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA 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: 19038 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 193
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

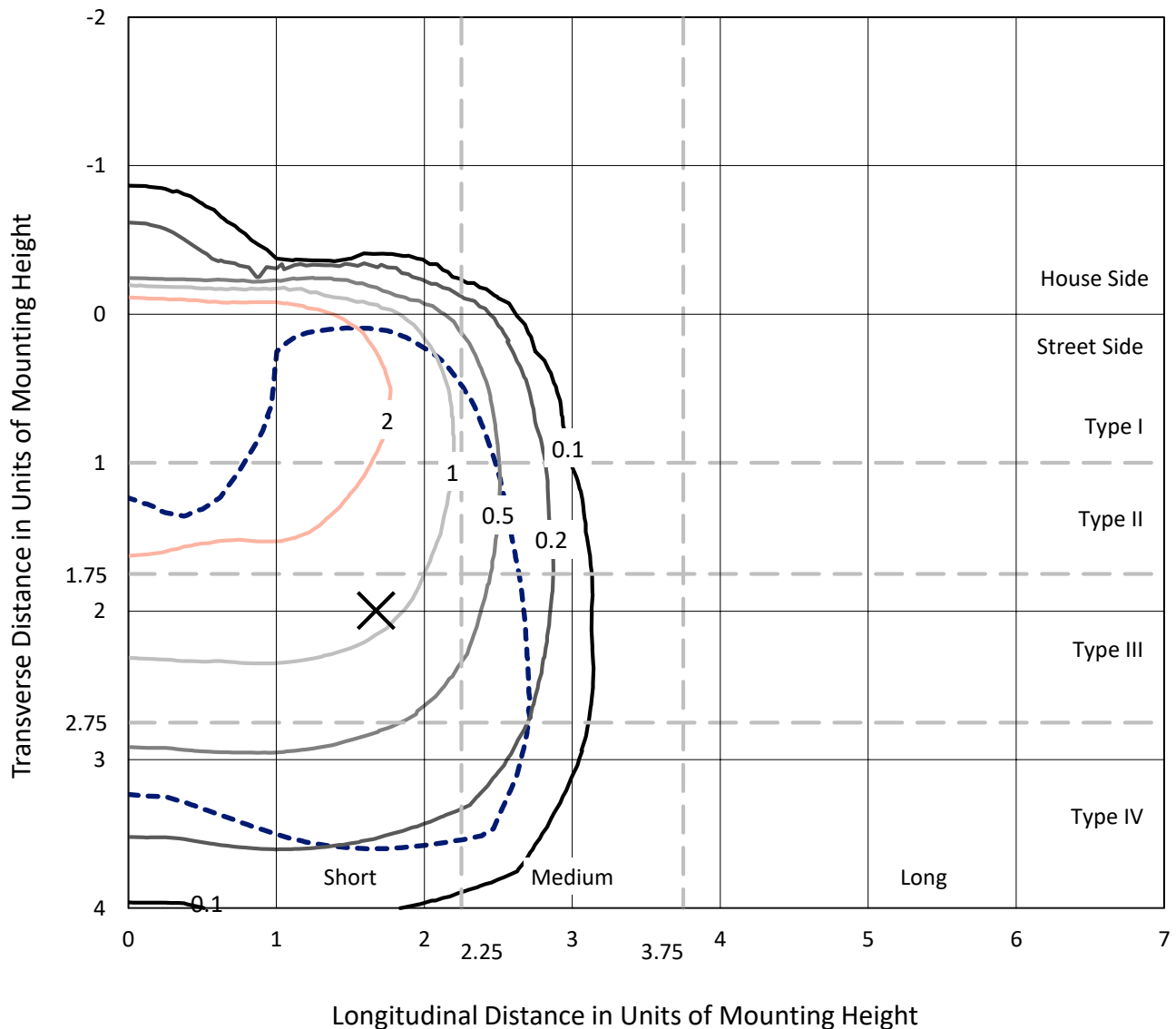


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

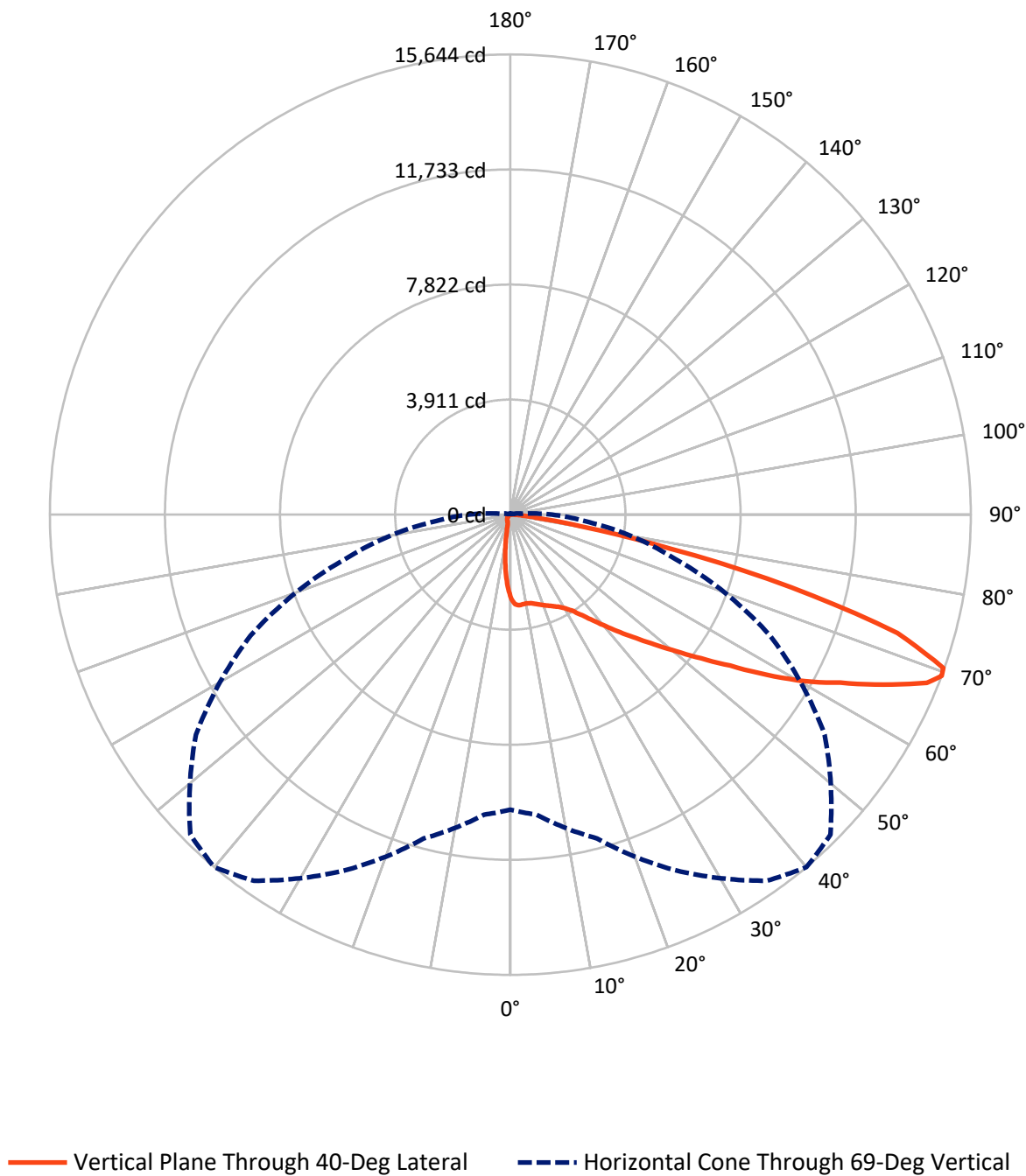


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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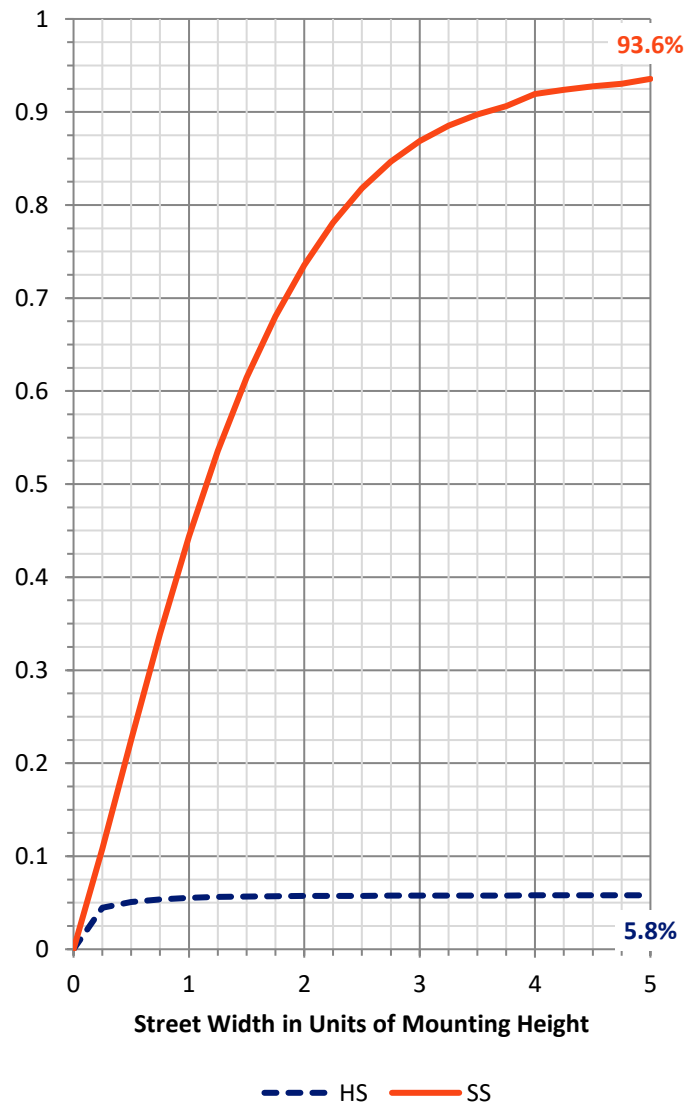
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1113.8	0.0	1113.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17924.2	0.0	17924.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	19038.0	0.0	19038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	1.2
10°-20°	567.1	3.0
20°-30°	955.3	5.0
30°-40°	1563.8	8.2
40°-50°	2707.7	14.2
50°-60°	4264.9	22.4
60°-70°	5569.7	29.3
70°-80°	2868.7	15.1
80°-90°	310.3	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°	19038.0	100.0
0°-180°	19038.0	100.0

Coefficient of Utilization



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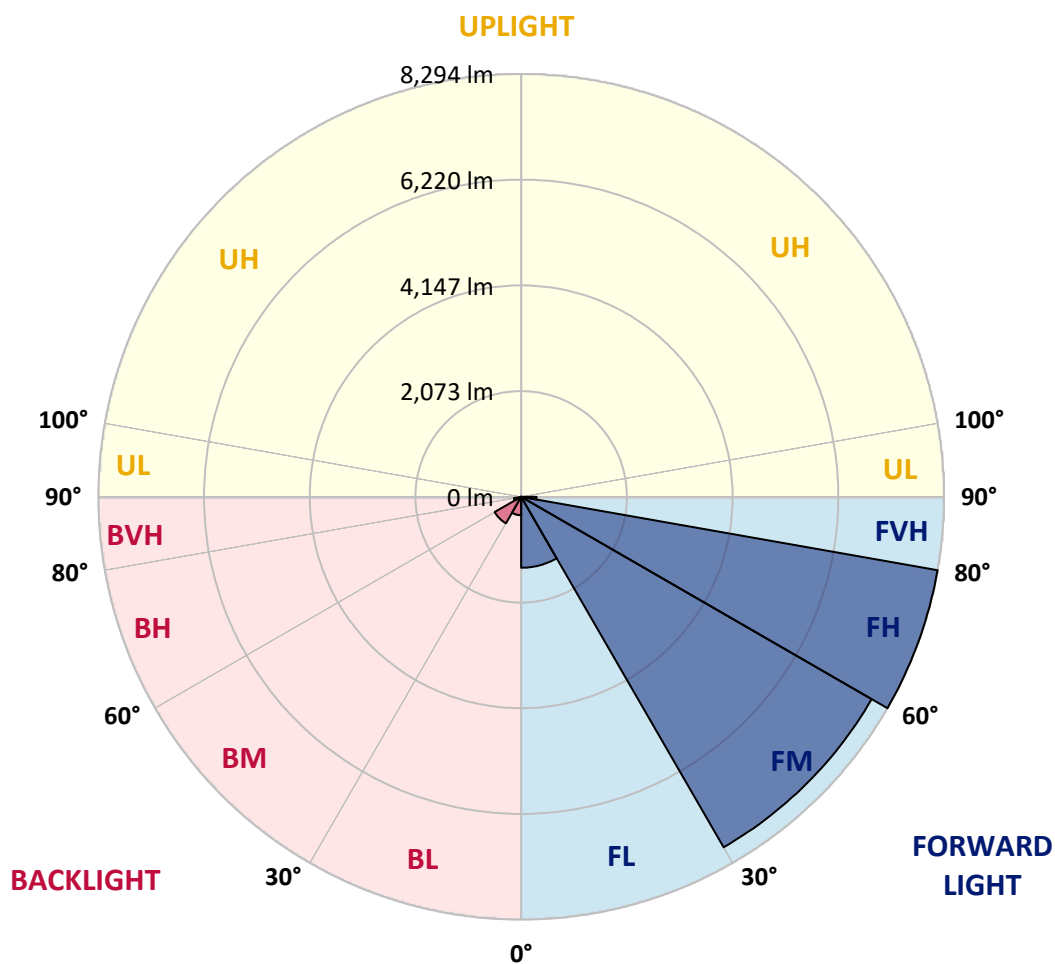
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.2	7.3			
FM	(30°-60°)	7937.7	41.7			
FH	(60°-80°)	8293.7	43.6			G4/12000
FVH	(80°-90°)	300.6	1.6			G3/500
BL	(0°-30°)	360.8	1.9	B1/500		
BM	(30°-60°)	598.7	3.1	B1/1000		
BH	(60°-80°)	144.6	0.8	B1/500		G1/500
BVH	(80°-90°)	9.7	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4
2.5°	3123.1	3106.1	3095.9	3082.4	3065.4	3050.6	3045.0	3003.0	2963.4	2909.0	2846.6
5°	3180.9	3175.3	3157.1	3139.0	3118.6	3095.9	3083.5	3033.6	2977.0	2897.6	2788.8
7.5°	3186.6	3179.8	3157.1	3132.2	3103.9	3076.7	3055.2	3005.3	2953.2	2872.7	2740.1
10°	3177.5	3169.6	3152.6	3125.4	3090.3	3064.2	3042.7	2995.1	2950.9	2878.4	2731.1
12.5°	3167.3	3159.4	3151.5	3137.9	3107.3	3089.1	3071.0	3025.7	2986.0	2924.8	2763.9
15°	3177.5	3173.0	3182.1	3176.4	3159.4	3143.5	3125.4	3084.6	3048.4	2997.4	2824.0
17.5°	3220.6	3220.6	3248.9	3252.3	3236.5	3213.8	3187.7	3146.9	3116.3	3073.3	2895.4
20°	3321.5	3318.1	3354.3	3361.1	3322.6	3287.5	3248.9	3199.1	3175.3	3148.1	2965.6
22.5°	3494.8	3479.0	3500.5	3493.7	3417.8	3363.4	3315.8	3254.6	3242.1	3229.7	3043.8
25°	3720.4	3711.3	3726.0	3659.2	3525.4	3451.8	3395.1	3326.0	3326.0	3338.5	3132.2
27.5°	4047.9	4013.9	3964.0	3846.1	3645.6	3551.5	3490.3	3416.6	3435.9	3482.4	3248.9
30°	4383.3	4345.9	4231.4	4050.1	3791.7	3693.2	3621.8	3544.7	3590.0	3675.0	3405.3
32.5°	4714.2	4672.3	4510.2	4281.3	4001.4	3902.8	3833.7	3748.7	3824.6	3967.4	3634.2
35°	5034.9	4997.5	4810.5	4540.8	4280.2	4198.6	4135.1	4061.5	4158.9	4358.4	3957.2
37.5°	5395.2	5354.5	5126.7	4834.3	4619.0	4560.1	4513.6	4439.9	4609.9	4902.3	4407.1
40°	5838.3	5769.2	5462.1	5170.9	5011.1	4982.8	4951.0	4940.8	5204.9	5609.4	5006.6
42.5°	6346.0	6232.7	5813.4	5525.6	5441.7	5462.1	5454.2	5499.5	5949.4	6488.8	5736.3
45°	6853.7	6707.5	6204.4	5904.1	5915.4	5986.8	6031.0	6212.3	6882.0	7497.4	6521.7
47.5°	7284.3	7140.4	6579.5	6313.2	6449.1	6589.7	6709.8	7053.1	7840.7	8490.1	7132.5
50°	7652.6	7516.6	6977.2	6763.0	7069.0	7295.7	7490.6	7999.4	8872.0	9245.9	7560.8
52.5°	7954.1	7863.4	7389.7	7278.7	7777.3	8109.3	8394.9	9004.5	9785.3	9860.1	7894.0
55°	8247.6	8183.0	7832.8	7891.7	8609.1	9061.2	9422.7	10070.9	10571.8	10372.3	8213.6
57.5°	8585.3	8526.3	8338.2	8669.1	9702.6	10271.5	10665.8	11016.0	11264.2	10895.9	8515.0
60°	8929.8	8895.8	8900.3	9532.6	10958.2	11504.4	11722.0	11812.7	11944.1	11388.8	8532.0
62.5°	9258.4	9323.0	9542.8	10493.6	12160.6	12579.8	12689.8	12779.3	12625.2	11467.0	7882.7
65°	9814.8	9920.2	10444.9	11779.8	13483.0	13931.8	14045.1	13738.0	12732.8	10456.2	6411.7
67.5°	10086.8	10279.4	11215.5	12978.7	14765.8	15264.4	15222.5	13800.3	11426.2	7973.3	4114.7
69°	10030.1	10235.2	11393.4	13345.9	15191.9	15644.1	15377.8	13037.7	9734.3	5776.0	2525.9
70°	9805.7	10013.1	11301.6	13332.3	15246.3	15604.4	15089.9	12096.0	8230.6	4223.5	1579.7
72.5°	8188.6	8367.7	10033.5	12050.6	14045.1	13753.9	12624.0	8380.1	4010.5	1150.2	355.8
75°	5040.5	5140.3	7199.3	9078.2	10608.0	9860.1	8410.7	4169.1	1195.5	325.2	197.2
77.5°	2663.1	2708.4	3941.3	5351.1	6724.5	5564.1	4310.8	1626.2	550.7	204.0	142.8
80°	1574.0	1608.0	2122.5	2446.6	2910.1	2430.8	1723.6	998.4	394.4	128.1	126.9
82.5°	900.9	922.4	1538.9	1359.9	1146.8	979.1	857.8	946.2	236.8	86.1	131.5
85°	330.9	335.4	865.8	1034.6	682.2	405.7	426.1	784.2	63.5	54.4	103.1
87.5°	154.1	150.7	445.4	633.5	398.9	257.2	332.0	172.2	24.9	35.1	28.3
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°	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4	2844.4
2.5°	2810.4	2768.4	2692.5	2614.3	2535.0	2473.8	2413.8	2366.2	2350.3	2320.8	2323.1
5°	2724.3	2647.2	2488.5	2327.6	2159.9	2021.7	1891.3	1786.0	1735.0	1682.8	1682.8
7.5°	2649.5	2537.3	2289.1	2027.3	1756.5	1528.7	1323.6	1169.5	1084.5	1016.5	1015.4
10°	2621.1	2469.3	2122.5	1747.4	1370.1	1059.6	815.9	659.5	579.1	526.9	524.7
12.5°	2633.6	2445.5	1994.5	1489.0	1015.4	681.1	472.6	371.7	337.7	321.8	321.8
15°	2669.9	2438.7	1866.4	1236.3	717.3	426.1	313.9	286.7	284.4	284.4	284.4
17.5°	2714.1	2440.9	1735.0	990.4	488.4	304.8	270.8	267.4	269.7	269.7	269.7
20°	2759.4	2442.1	1593.3	762.7	344.5	265.2	255.0	253.8	256.1	256.1	257.2
22.5°	2814.9	2447.7	1451.7	570.0	284.4	250.4	242.5	242.5	243.6	243.6	242.5
25°	2878.4	2459.1	1304.3	422.7	259.5	240.2	233.4	232.3	233.4	232.3	231.2
27.5°	2957.7	2474.9	1140.0	330.9	248.2	230.0	224.4	224.4	223.2	222.1	221.0
30°	3057.4	2493.1	955.3	281.0	236.8	221.0	215.3	214.2	213.0	210.8	210.8
32.5°	3209.3	2532.7	772.9	255.0	224.4	208.5	204.0	204.0	201.7	199.4	198.3
35°	3442.7	2610.9	609.7	239.1	210.8	194.9	189.2	189.2	187.0	185.8	184.7
37.5°	3765.7	2729.9	473.7	224.4	197.2	180.2	174.5	173.4	171.1	168.8	167.7
40°	4195.2	2877.2	372.8	210.8	183.6	165.4	160.9	158.7	154.1	150.7	150.7
42.5°	4734.6	3045.0	302.6	196.0	167.7	151.9	148.5	145.1	137.1	133.7	132.6
45°	5298.9	3195.7	256.1	179.0	151.9	138.3	136.0	130.3	120.1	116.7	116.7
47.5°	5705.7	3230.8	225.5	163.2	137.1	123.5	122.4	112.2	103.1	100.9	99.7
50°	5959.6	3161.7	200.6	147.3	123.5	109.9	106.5	94.1	88.4	86.1	85.0
52.5°	6130.7	3038.2	180.2	133.7	111.1	97.5	89.5	80.5	75.9	73.7	73.7
55°	6267.8	2863.6	159.8	121.3	100.9	87.3	75.9	69.1	64.6	62.3	62.3
57.5°	6306.4	2626.8	139.4	111.1	90.7	77.1	64.6	60.1	54.4	53.3	53.3
60°	6026.4	2199.6	123.5	98.6	81.6	66.9	56.7	51.0	45.3	44.2	43.1
62.5°	5288.7	1702.1	108.8	87.3	71.4	57.8	48.7	41.9	37.4	37.4	37.4
65°	4034.3	1141.1	95.2	75.9	62.3	48.7	41.9	34.0	31.7	31.7	32.9
67.5°	2414.9	621.0	81.6	64.6	53.3	40.8	35.1	29.5	28.3	29.5	29.5
69°	1415.4	364.9	73.7	57.8	46.5	36.3	30.6	26.1	28.3	29.5	29.5
70°	873.7	245.9	68.0	52.1	41.9	32.9	28.3	24.9	27.2	28.3	28.3
72.5°	243.6	126.9	54.4	40.8	34.0	27.2	22.7	22.7	26.1	27.2	27.2
75°	158.7	94.1	41.9	30.6	26.1	21.5	19.3	21.5	24.9	26.1	26.1
77.5°	131.5	77.1	34.0	24.9	21.5	20.4	18.1	19.3	22.7	23.8	23.8
80°	120.1	54.4	27.2	22.7	19.3	18.1	17.0	15.9	20.4	21.5	21.5
82.5°	114.5	43.1	23.8	20.4	18.1	15.9	14.7	15.9	18.1	19.3	20.4
85°	71.4	28.3	21.5	19.3	15.9	14.7	14.7	14.7	17.0	18.1	18.1
87.5°	26.1	22.7	19.3	15.9	13.6	13.6	13.6	13.6	14.7	17.0	17.0
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)