

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: P194173

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-5NQ-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20219 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 162
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

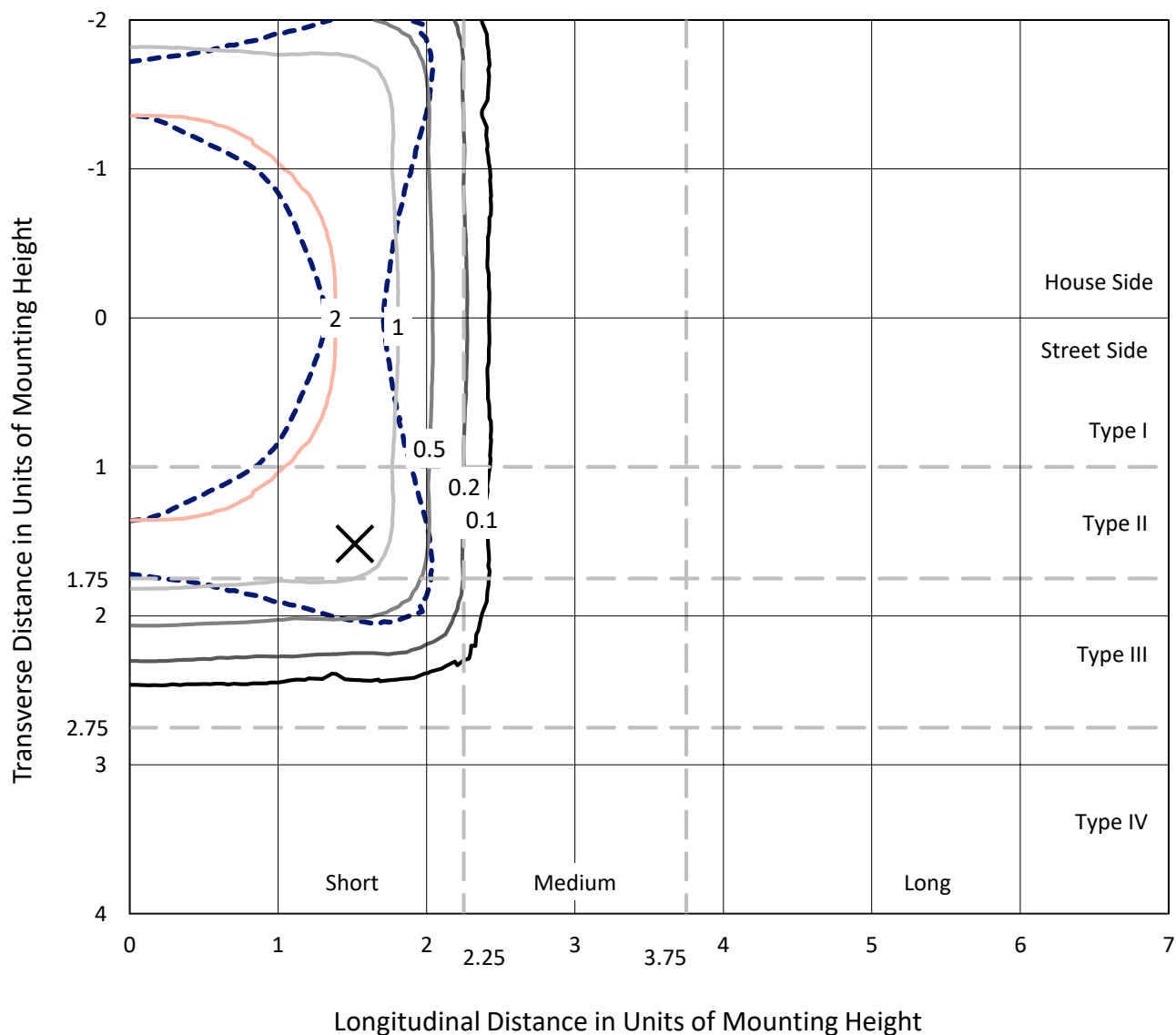


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

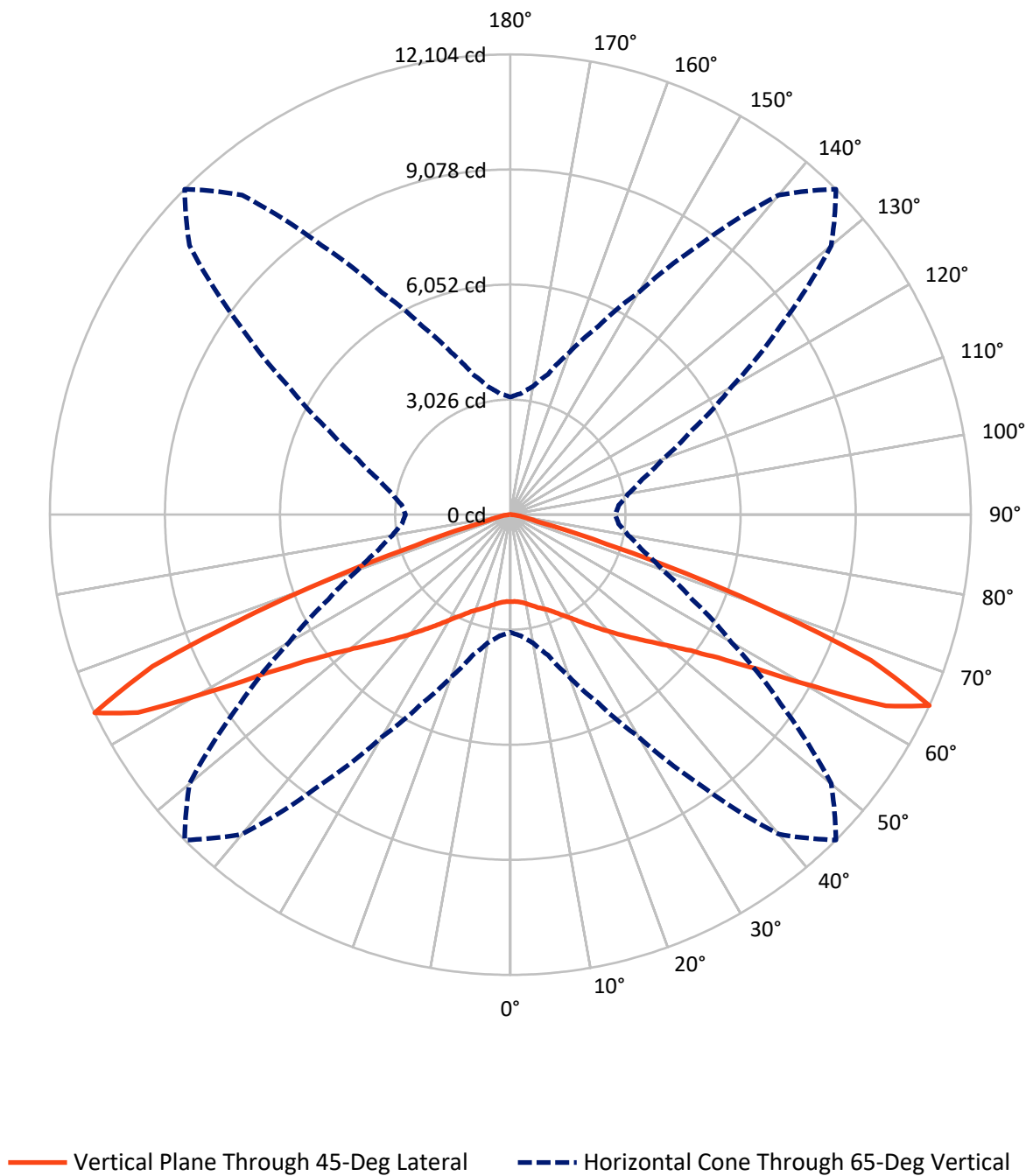


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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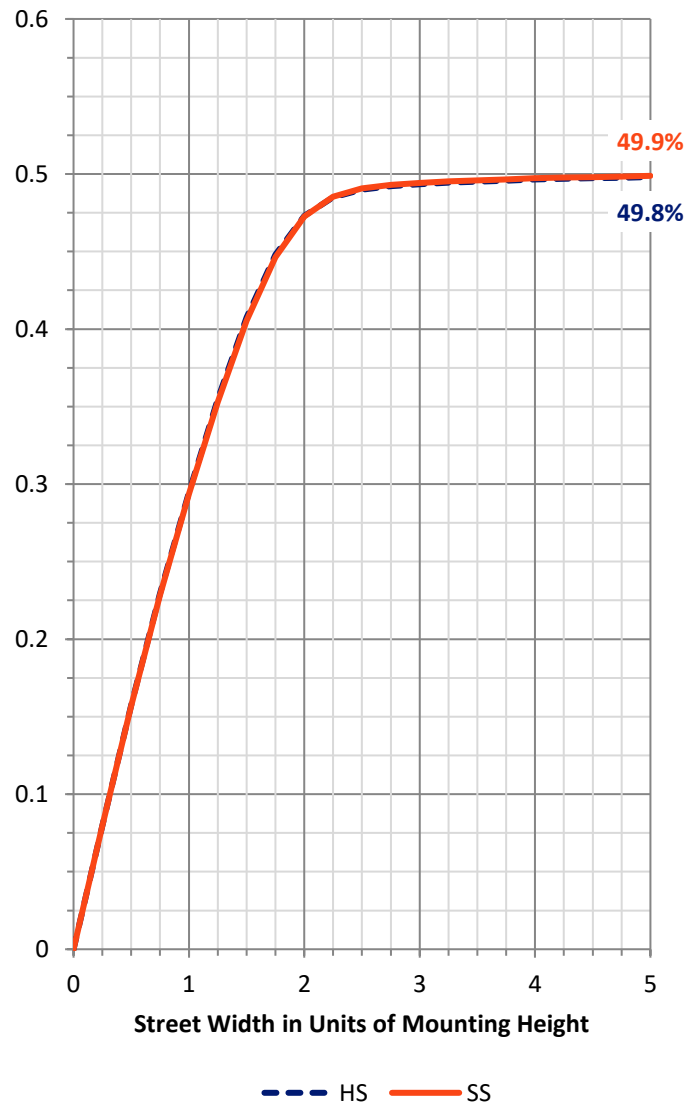
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10109.5	0.0	10109.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10109.5	0.0	10109.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20219.0	0.0	20219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	1.1
10°-20°	715.2	3.5
20°-30°	1337.2	6.6
30°-40°	2261.6	11.2
40°-50°	3697.9	18.3
50°-60°	5880.3	29.1
60°-70°	5315.4	26.3
70°-80°	672.7	3.3
80°-90°	115.7	0.6
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°	20219.0	100.0
0°-180°	20219.0	100.0

Coefficient of Utilization



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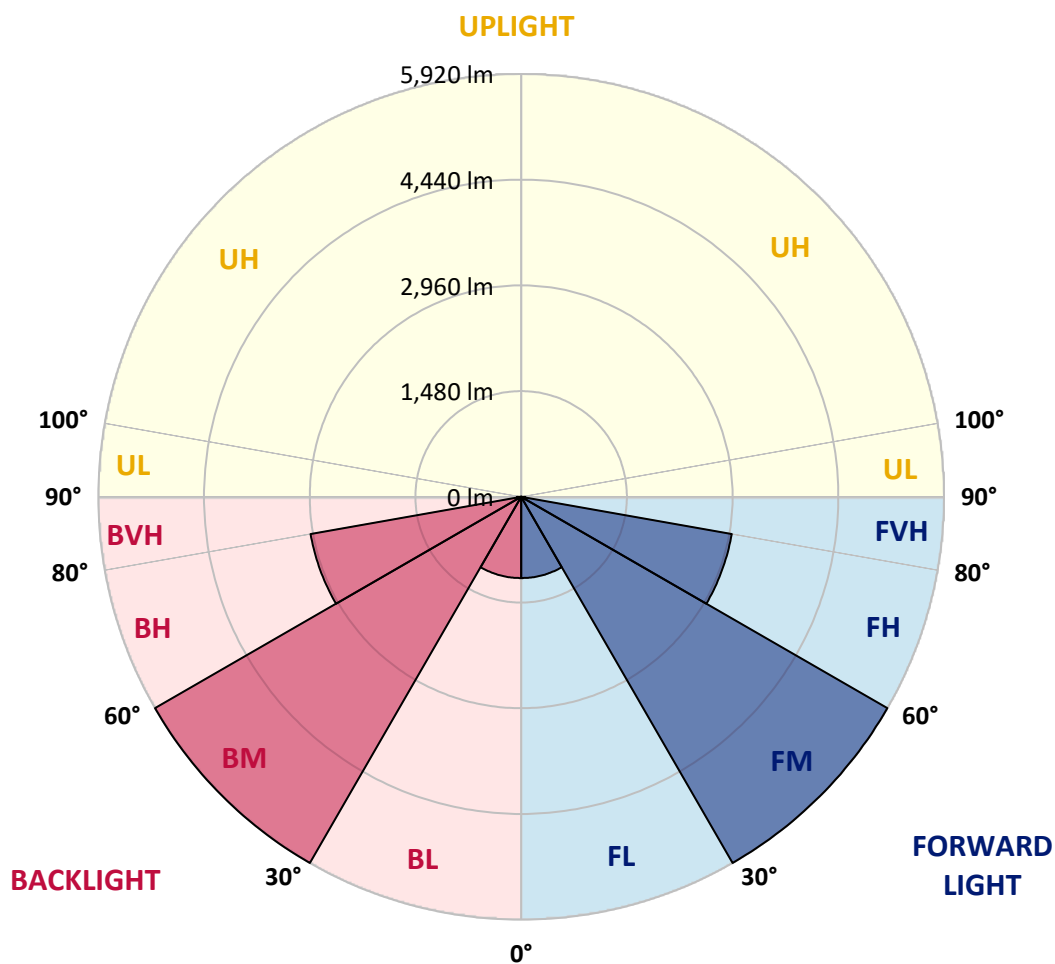
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.7	5.6			
FM	(30°-60°)	5919.9	29.3			
FH	(60°-80°)	2994.0	14.8			G2/5000
FVH	(80°-90°)	57.9	0.3			G1/100
BL	(0°-30°)	1137.7	5.6	B3/2500		
BM	(30°-60°)	5919.9	29.3	B4/8500		
BH	(60°-80°)	2994.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	57.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8
2.5°	2289.7	2291.6	2293.5	2291.6	2293.5	2290.6	2288.7	2291.6	2288.7	2285.9	2287.8
5°	2309.6	2310.5	2310.5	2307.7	2310.5	2308.6	2305.8	2309.6	2306.7	2303.9	2305.8
7.5°	2342.7	2346.5	2343.7	2340.8	2342.7	2340.8	2338.9	2339.9	2338.9	2336.1	2337.0
10°	2387.2	2390.1	2388.2	2387.2	2389.1	2388.2	2386.3	2385.3	2386.3	2383.4	2383.4
12.5°	2441.2	2440.2	2439.3	2440.2	2443.1	2443.1	2442.1	2443.1	2445.0	2445.9	2444.0
15°	2494.2	2496.1	2496.1	2496.1	2501.8	2506.5	2509.4	2511.3	2515.1	2516.0	2512.2
17.5°	2560.5	2560.5	2559.6	2560.5	2566.2	2573.8	2576.6	2580.4	2584.2	2587.0	2582.3
20°	2634.4	2636.3	2636.3	2638.2	2645.7	2654.3	2654.3	2656.1	2654.3	2656.1	2653.3
22.5°	2724.3	2730.0	2730.0	2731.0	2738.5	2748.9	2746.1	2748.9	2744.2	2748.0	2744.2
25°	2841.7	2850.3	2848.4	2848.4	2854.1	2860.7	2861.6	2867.3	2866.4	2871.1	2868.3
27.5°	2974.3	2987.6	2991.4	2990.4	2994.2	3000.8	3002.7	3009.4	3005.6	3009.4	3007.5
30°	3133.4	3139.1	3146.7	3149.5	3154.2	3160.9	3160.9	3161.8	3157.1	3162.8	3165.6
32.5°	3298.2	3308.6	3316.2	3333.2	3341.7	3346.5	3345.5	3347.4	3342.7	3350.2	3355.9
35°	3516.0	3523.5	3535.8	3549.1	3560.5	3559.5	3556.7	3557.6	3557.6	3564.3	3569.9
37.5°	3778.3	3780.2	3796.3	3815.2	3820.9	3815.2	3798.1	3794.4	3785.8	3794.4	3803.8
40°	4055.7	4062.3	4094.5	4106.8	4109.7	4099.3	4074.7	4060.4	4041.5	4051.9	4065.2
42.5°	4346.4	4359.7	4389.0	4410.8	4420.3	4413.7	4379.6	4357.8	4333.2	4338.8	4352.1
45°	4668.4	4684.5	4726.1	4747.0	4765.0	4754.6	4721.4	4688.3	4649.4	4652.3	4673.1
47.5°	5028.2	5044.3	5098.3	5133.3	5142.8	5140.9	5104.0	5058.5	5005.5	5003.6	5021.6
50°	5431.6	5447.7	5514.9	5568.9	5596.4	5593.5	5550.0	5485.6	5421.2	5422.1	5444.9
52.5°	5825.5	5845.4	5915.5	6008.3	6062.3	6101.1	6074.6	6014.0	5935.4	5937.3	5958.1
55°	6194.8	6228.0	6308.5	6434.4	6534.8	6643.7	6674.9	6673.0	6625.7	6638.9	6659.8
57.5°	6373.8	6423.0	6547.1	6746.0	6950.5	7172.1	7359.6	7499.7	7559.4	7649.3	7628.5
60°	6034.8	6113.4	6296.2	6588.8	6993.1	7455.2	7950.5	8434.3	8847.2	9158.7	8979.8
62.5°	4941.1	5043.4	5264.9	5639.9	6251.7	6991.2	7939.1	9083.0	10329.1	11081.0	10544.1
65°	3091.7	3197.8	3423.2	3824.7	4540.5	5460.0	6746.0	8641.7	10970.2	12103.7	11010.9
67.5°	1205.4	1263.2	1385.4	1642.0	2179.8	2998.0	4288.7	6440.1	9225.0	10218.4	9053.6
70°	604.1	609.8	632.6	679.9	795.4	1033.1	1571.9	2985.7	5290.5	6389.9	5100.2
72.5°	436.5	437.5	448.8	469.7	506.6	559.6	661.9	913.8	1720.6	2629.6	1612.6
75°	334.3	338.1	344.7	356.0	375.9	402.4	439.4	526.5	652.4	756.6	636.3
77.5°	257.6	265.1	269.9	280.3	292.6	310.6	321.0	354.2	411.9	433.7	427.1
80°	196.0	202.6	213.1	221.6	230.1	238.6	234.8	250.0	280.3	298.3	288.8
82.5°	125.0	132.6	162.9	170.4	174.2	179.9	173.3	174.2	187.5	198.9	187.5
85°	80.5	85.2	103.2	112.7	113.6	117.4	114.6	108.0	108.0	98.5	110.8
87.5°	36.9	37.9	46.4	54.9	56.8	51.1	50.2	48.3	38.8	36.9	39.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8	2287.8
2.5°	2286.8	2288.7	2289.7	2292.5	2293.5	2293.5	2294.4	2296.3
5°	2304.8	2307.7	2308.6	2312.4	2313.4	2312.4	2314.3	2315.3
7.5°	2337.0	2341.8	2343.7	2347.4	2344.6	2348.4	2349.3	2349.3
10°	2384.4	2389.1	2390.1	2393.8	2392.0	2393.8	2393.8	2392.0
12.5°	2446.9	2447.8	2445.0	2447.8	2444.0	2445.9	2443.1	2441.2
15°	2516.0	2513.2	2506.5	2506.5	2500.9	2501.8	2500.9	2499.9
17.5°	2583.2	2577.6	2572.8	2570.9	2566.2	2565.2	2562.4	2562.4
20°	2657.1	2654.3	2651.4	2647.6	2642.9	2638.2	2637.2	2639.1
22.5°	2746.1	2745.2	2745.2	2743.3	2736.6	2731.9	2729.1	2729.1
25°	2865.4	2856.9	2856.9	2856.0	2853.1	2850.3	2844.6	2847.4
27.5°	2999.9	2995.1	2998.9	2998.0	2995.1	2995.1	2991.4	2991.4
30°	3165.6	3163.7	3169.4	3164.7	3155.2	3154.2	3150.4	3145.7
32.5°	3356.9	3355.0	3363.5	3357.8	3342.7	3334.2	3326.6	3322.8
35°	3569.9	3570.9	3581.3	3577.5	3560.5	3554.8	3541.5	3539.6
37.5°	3802.9	3818.0	3836.0	3839.8	3825.6	3821.8	3807.6	3800.0
40°	4076.5	4096.4	4123.9	4130.5	4115.4	4112.5	4092.6	4082.2
42.5°	4368.2	4402.3	4436.4	4442.1	4426.9	4411.8	4392.8	4385.2
45°	4693.9	4734.7	4779.2	4790.5	4767.8	4749.8	4725.2	4725.2
47.5°	5059.5	5110.6	5160.8	5192.0	5171.2	5152.3	5122.9	5104.0
50°	5491.3	5561.3	5626.7	5658.9	5625.7	5589.7	5538.6	5521.6
52.5°	6032.9	6108.7	6165.5	6148.4	6097.3	6047.1	5991.2	5968.5
55°	6724.2	6749.7	6749.7	6685.3	6583.1	6498.8	6410.7	6381.4
57.5°	7588.7	7490.2	7338.7	7146.5	6905.0	6694.8	6552.8	6485.5
60°	8604.8	8131.3	7596.3	7070.8	6638.9	6282.9	6071.7	5975.1
62.5°	9281.8	8043.3	6971.3	6127.6	5506.4	5077.5	4785.8	4672.2
65°	8674.9	6708.1	5272.5	4263.1	3586.0	3149.5	2860.7	2754.6
67.5°	6353.9	4203.4	2807.7	2012.2	1474.4	1176.1	1057.7	1008.5
70°	2852.2	1480.1	907.2	708.3	610.8	560.6	538.8	531.2
72.5°	859.8	622.1	524.6	473.5	434.6	410.0	392.0	390.1
75°	518.9	431.8	383.5	353.2	328.6	308.7	299.2	296.4
77.5°	362.7	317.2	294.5	272.7	253.8	238.6	230.1	223.5
80°	254.7	232.9	222.5	210.2	197.9	183.7	171.4	165.7
82.5°	170.4	165.7	165.7	158.1	147.7	134.5	109.8	104.2
85°	109.8	108.9	110.8	108.0	100.4	86.2	71.0	67.2
87.5°	51.1	52.1	57.8	56.8	54.9	45.5	36.0	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)