

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: P192743

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23762.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 210
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

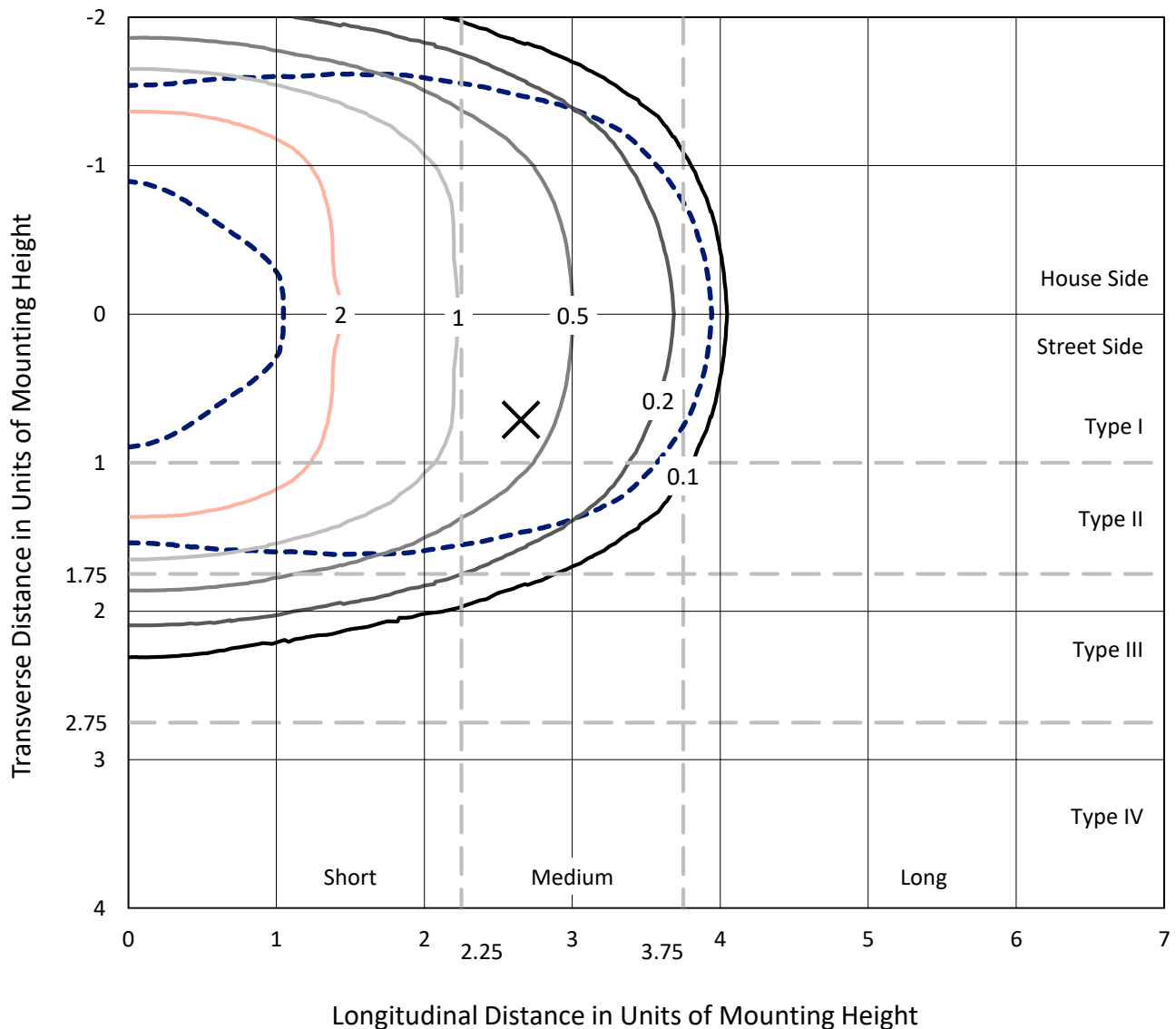


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

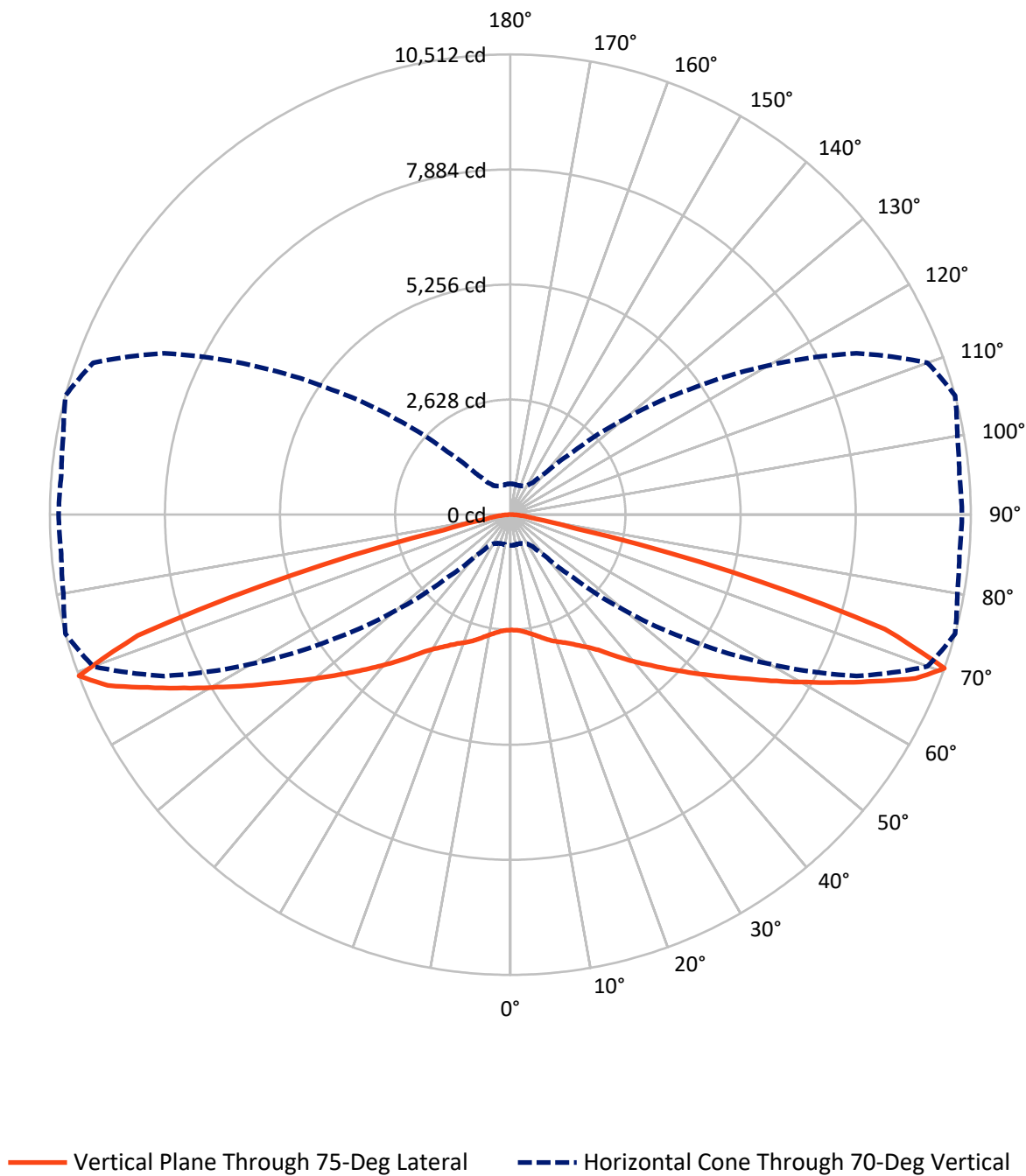


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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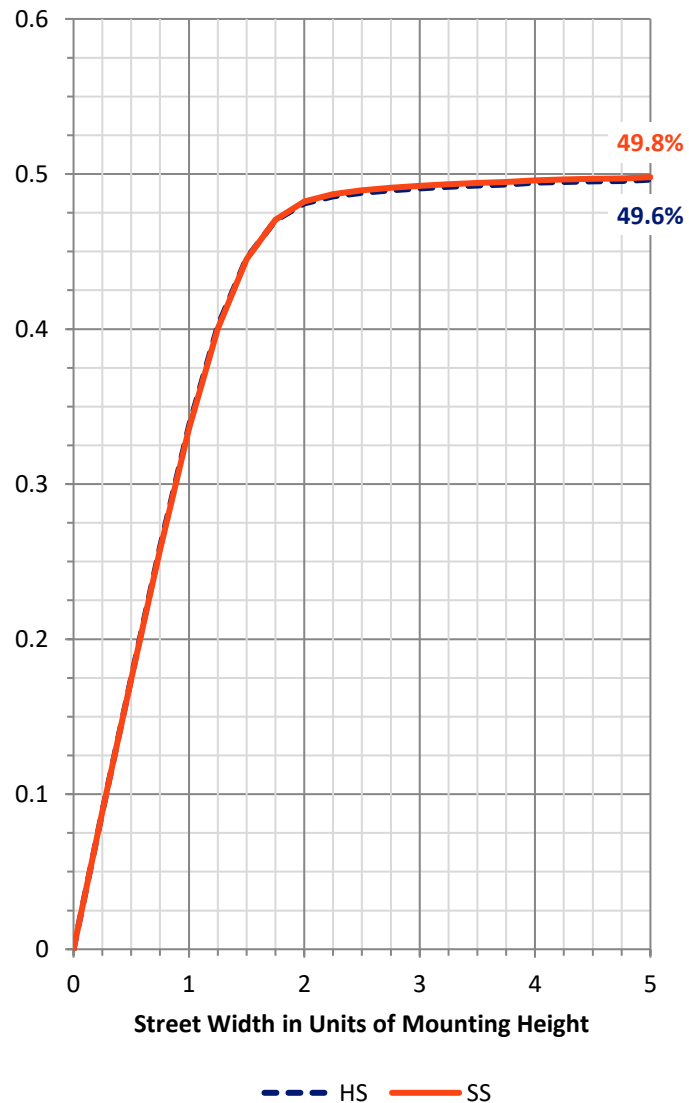
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11881.4	0.0	11881.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11881.4	0.0	11881.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	23762.8	0.0	23762.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	1.1
10°-20°	785.5	3.3
20°-30°	1478.4	6.2
30°-40°	2618.0	11.0
40°-50°	4378.1	18.4
50°-60°	6100.8	25.7
60°-70°	5657.6	23.8
70°-80°	2254.7	9.5
80°-90°	237.0	1.0
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°	23762.8	100.0
0°-180°	23762.8	100.0

Coefficient of Utilization



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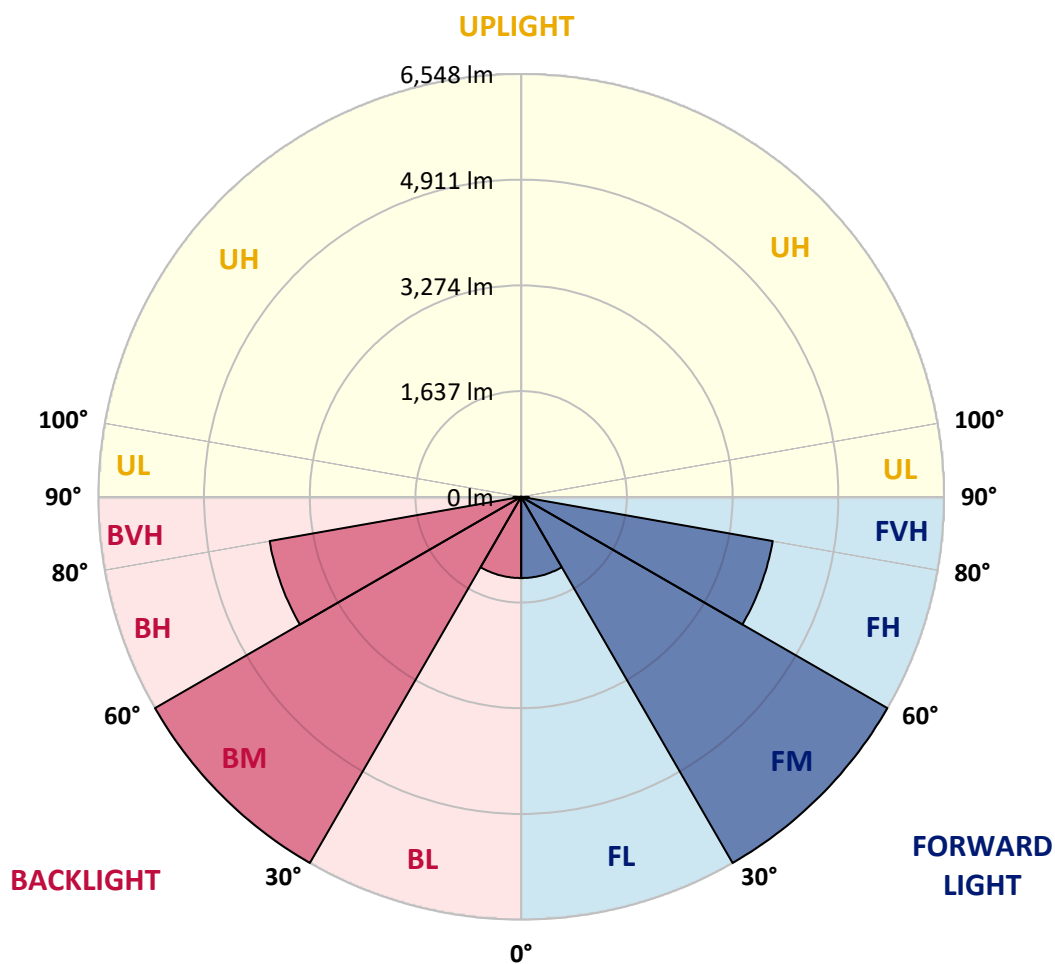
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.3	5.3			
FM	(30°-60°)	6548.4	27.6			
FH	(60°-80°)	3956.1	16.6			G2/5000
FVH	(80°-90°)	118.5	0.5			G2/225
BL	(0°-30°)	1258.3	5.3	B3/2500		
BM	(30°-60°)	6548.4	27.6	B4/8500		
BH	(60°-80°)	3956.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	118.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2631.4	2629.1	2631.4	2630.2	2632.5	2632.5	2634.7	2639.2	2639.2	2642.6	2641.5
5°	2605.5	2604.4	2607.8	2611.2	2614.5	2621.2	2628.0	2638.1	2645.9	2651.6	2657.1
7.5°	2555.0	2555.0	2559.5	2567.4	2575.2	2589.8	2605.5	2625.7	2645.9	2662.7	2677.4
10°	2513.4	2515.7	2521.2	2534.9	2548.3	2570.8	2592.0	2621.2	2649.3	2677.4	2699.9
12.5°	2488.7	2492.1	2502.2	2522.5	2544.8	2575.2	2607.8	2644.8	2676.3	2709.9	2732.5
15°	2496.6	2498.9	2513.4	2538.1	2567.4	2605.5	2649.3	2693.1	2730.2	2766.1	2796.5
17.5°	2540.4	2543.8	2560.6	2588.7	2619.1	2664.0	2711.0	2760.6	2806.6	2847.0	2884.0
20°	2619.1	2622.3	2643.7	2674.0	2709.9	2756.1	2803.1	2854.8	2906.6	2949.2	2990.8
22.5°	2730.2	2735.9	2756.1	2786.3	2826.7	2876.1	2932.3	2987.3	3036.8	3076.0	3113.2
25°	2876.1	2888.5	2907.6	2941.4	2984.0	3028.8	3089.6	3145.7	3192.9	3229.9	3256.9
27.5°	3082.9	3099.6	3114.3	3146.8	3188.4	3231.2	3291.8	3341.1	3386.1	3422.0	3442.2
30°	3356.9	3373.7	3388.3	3419.7	3457.9	3498.4	3555.7	3599.4	3627.5	3655.6	3654.5
32.5°	3689.2	3707.2	3712.8	3746.6	3785.9	3829.6	3881.3	3906.0	3928.5	3931.9	3911.7
35°	4061.0	4070.0	4092.6	4137.4	4182.3	4218.3	4267.6	4280.0	4280.0	4263.2	4218.3
37.5°	4468.7	4474.2	4505.8	4556.3	4602.3	4639.3	4673.1	4697.8	4685.5	4649.5	4574.2
40°	4915.7	4925.9	4970.8	5015.6	5067.3	5102.1	5138.0	5142.5	5130.2	5077.4	4975.2
42.5°	5342.4	5351.4	5396.4	5467.2	5534.5	5582.8	5616.5	5623.2	5583.9	5535.6	5408.7
45°	5709.7	5733.3	5791.8	5874.8	5972.4	6041.1	6087.1	6106.2	6071.3	6008.3	5861.3
47.5°	6000.5	6024.1	6107.3	6206.2	6327.4	6438.5	6514.9	6555.3	6546.4	6499.2	6338.5
50°	6213.9	6236.4	6326.2	6447.5	6589.1	6727.2	6857.4	6954.1	6987.7	6966.4	6819.3
52.5°	6238.7	6275.8	6381.3	6544.1	6728.3	6916.9	7102.3	7266.3	7377.4	7394.3	7285.4
55°	5893.9	5930.9	6076.9	6318.4	6592.3	6900.2	7196.7	7472.9	7692.0	7804.2	7746.9
57.5°	5080.8	5146.9	5300.9	5583.9	5987.1	6447.5	6920.4	7411.2	7857.1	8154.6	8211.9
60°	3893.7	3972.3	4127.3	4428.3	4877.6	5426.7	6057.9	6783.4	7570.6	8240.0	8639.7
62.5°	2497.6	2571.9	2734.6	2996.3	3362.5	3957.7	4634.9	5496.3	6554.3	7611.0	8563.4
65°	1283.7	1324.1	1409.5	1567.8	1853.0	2297.8	2905.4	3764.5	4974.0	6277.9	7654.8
67.5°	813.1	821.0	840.1	862.5	935.5	1089.5	1372.4	1908.1	2903.1	4263.2	5874.8
70°	703.1	703.1	694.1	690.7	699.7	721.0	764.9	889.5	1225.3	2023.8	3388.3
72.5°	643.5	636.8	621.0	608.7	606.5	606.5	615.4	634.6	688.5	824.4	1326.3
75°	592.9	573.9	552.6	538.0	532.3	526.7	525.6	529.0	540.2	561.5	633.3
77.5°	531.2	506.5	481.9	467.2	460.4	452.6	445.9	438.0	432.3	439.1	470.6
80°	457.1	429.1	409.9	401.0	394.2	383.0	368.3	354.9	342.5	340.4	359.4
82.5°	368.3	335.8	336.9	340.4	327.9	312.3	296.5	281.9	260.6	249.3	260.6
85°	297.6	280.8	272.9	294.2	276.3	252.7	228.1	202.1	168.5	141.5	153.8
87.5°	115.7	115.7	172.9	266.1	239.2	195.5	167.3	142.6	88.7	68.5	69.6
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°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2640.4	2642.6	2641.5	2640.4	2640.4	2639.2	2640.4	2640.4
5°	2660.6	2666.2	2666.2	2668.4	2668.4	2669.5	2670.7	2669.5
7.5°	2690.8	2701.0	2707.8	2715.6	2716.7	2717.9	2720.1	2717.9
10°	2721.2	2741.5	2756.1	2770.6	2777.4	2779.5	2781.8	2781.8
12.5°	2759.4	2787.4	2813.3	2839.1	2851.4	2858.2	2858.2	2862.7
15°	2822.2	2850.3	2880.7	2915.5	2936.8	2948.1	2951.4	2951.4
17.5°	2911.0	2935.7	2961.6	2995.3	3022.2	3036.8	3040.1	3039.0
20°	3014.4	3038.0	3052.4	3073.9	3097.4	3114.3	3118.8	3118.8
22.5°	3132.3	3145.7	3148.0	3154.8	3173.8	3196.3	3206.3	3208.6
25°	3262.5	3265.9	3256.9	3256.9	3269.2	3290.6	3300.7	3301.9
27.5°	3431.0	3414.2	3391.6	3383.8	3391.6	3416.4	3428.8	3433.3
30°	3640.9	3600.5	3549.0	3520.9	3516.3	3549.0	3571.3	3574.8
32.5°	3881.3	3823.0	3754.4	3697.2	3682.6	3702.8	3729.7	3728.6
35°	4166.6	4097.0	4013.8	3940.9	3907.1	3927.5	3965.6	3970.1
37.5°	4495.7	4404.7	4309.1	4217.1	4164.3	4170.0	4210.5	4223.9
40°	4862.9	4745.0	4624.8	4501.3	4426.0	4411.5	4460.8	4468.7
42.5°	5256.0	5104.4	4952.7	4800.0	4703.4	4681.0	4738.2	4734.9
45°	5674.9	5481.7	5304.3	5135.8	5021.2	4987.5	5034.7	5034.7
47.5°	6125.2	5887.1	5676.0	5485.1	5360.4	5312.0	5357.1	5360.4
50°	6602.5	6349.8	6101.7	5889.4	5740.1	5678.2	5736.6	5745.6
52.5°	7077.6	6831.7	6581.2	6338.5	6157.9	6082.6	6149.9	6179.1
55°	7559.4	7317.9	7078.7	6841.7	6627.2	6538.5	6610.4	6647.5
57.5°	8068.1	7844.7	7616.7	7377.4	7170.8	7032.7	7109.1	7158.4
60°	8664.5	8473.6	8236.6	7972.6	7763.8	7623.4	7667.2	7711.0
62.5°	9136.1	9210.3	9009.3	8703.8	8435.4	8255.7	8298.3	8344.4
65°	8908.2	9668.6	9847.1	9538.3	9166.6	8886.8	8868.9	8892.5
67.5°	7445.9	8922.7	9999.9	10294.1	9983.0	9594.4	9522.5	9557.4
70°	4980.8	6820.4	8720.6	10135.8	10512.0	10361.5	10290.7	10312.0
72.5°	2392.1	3972.3	5916.4	7797.5	8943.0	9468.6	9637.1	9719.0
75°	874.8	1576.8	2851.4	4296.8	5187.4	6005.1	6538.5	6756.4
77.5°	527.8	636.8	910.7	1371.3	1553.2	1738.6	1666.6	1702.6
80°	390.8	441.4	499.8	561.5	581.7	581.7	559.3	541.3
82.5°	274.0	306.6	334.7	368.3	377.4	360.5	296.5	235.9
85°	176.4	190.8	203.2	224.6	218.9	208.9	140.4	124.7
87.5°	80.9	92.1	96.5	106.7	102.1	97.7	69.6	58.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)