

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: STREETWORKS

Report Number: P192752

Luminaire Tested: **GAN-AF-04-LED-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192752
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: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23737.7 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 225
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: 28.75 FT

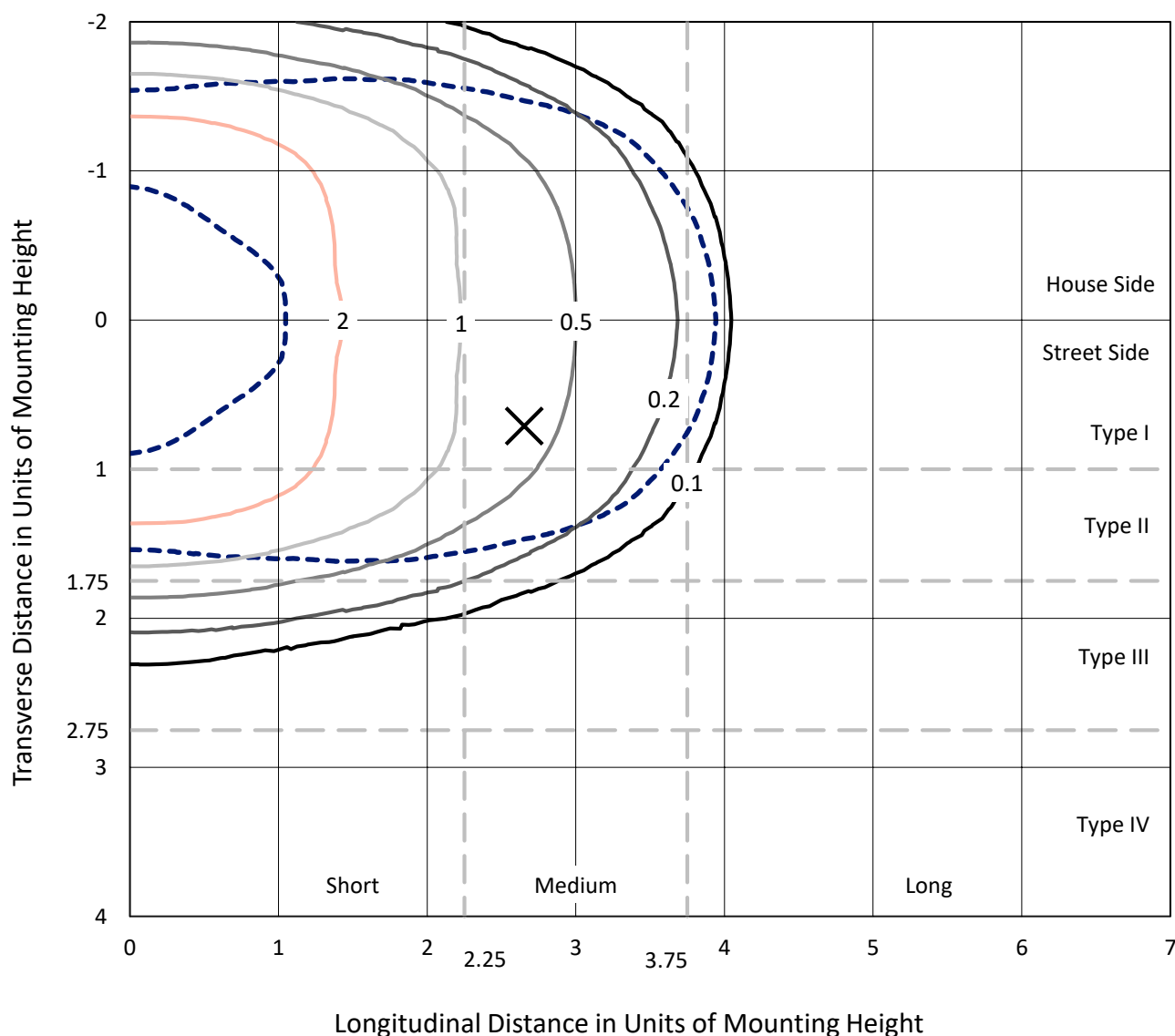


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

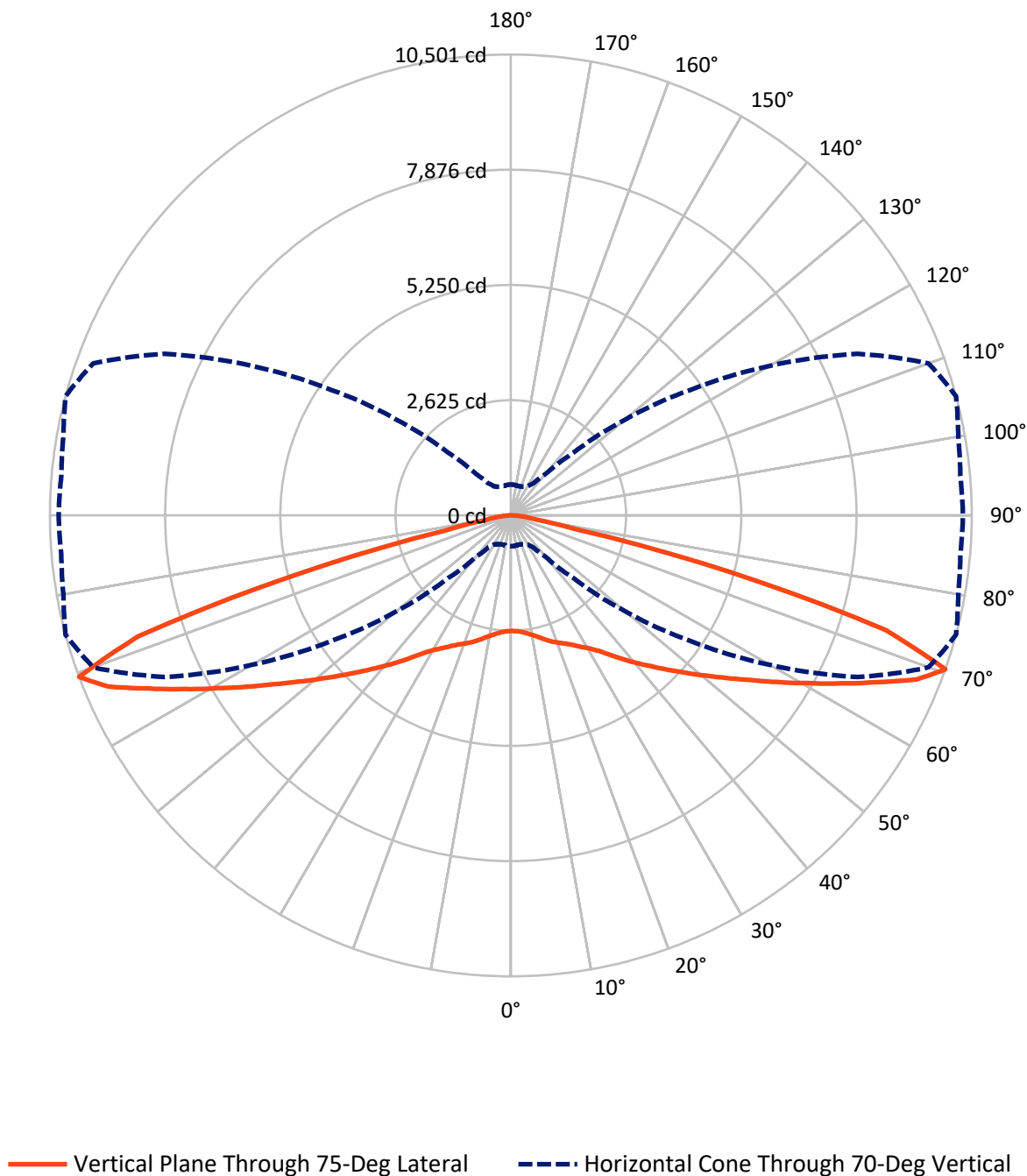


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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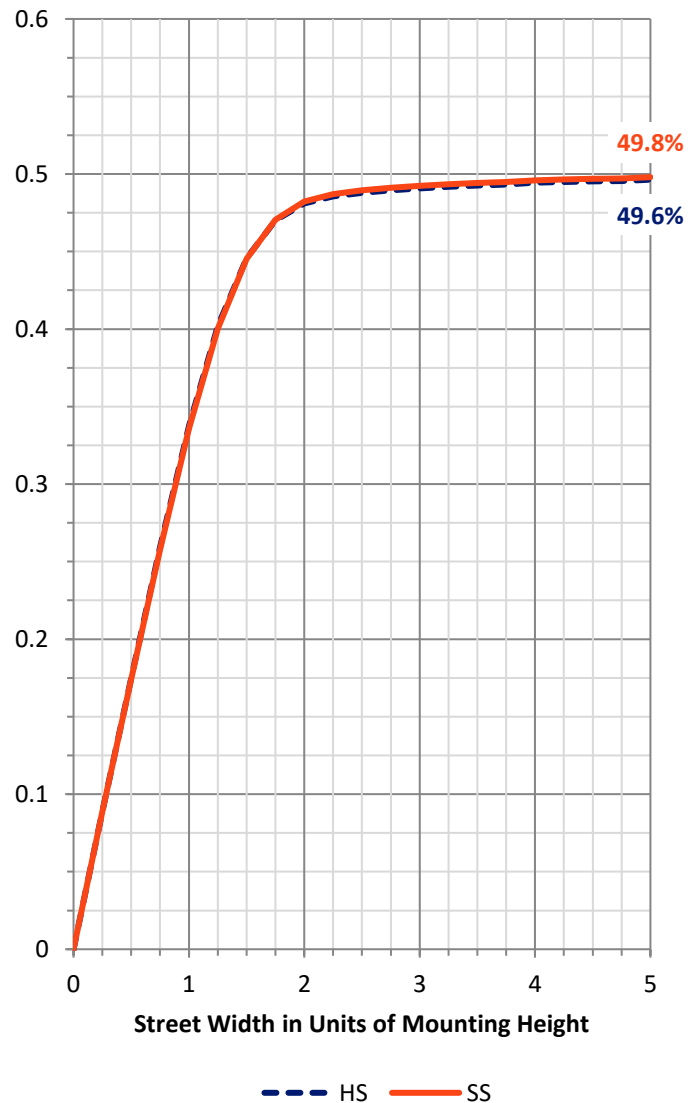
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11868.8	0.0	11868.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11868.8	0.0	11868.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23737.7	0.0	23737.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.1
10°-20°	784.7	3.3
20°-30°	1476.8	6.2
30°-40°	2615.2	11.0
40°-50°	4373.4	18.4
50°-60°	6094.4	25.7
60°-70°	5651.6	23.8
70°-80°	2252.3	9.5
80°-90°	236.7	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°	23737.7	100.0
0°-180°	23737.7	100.0

Coefficient of Utilization



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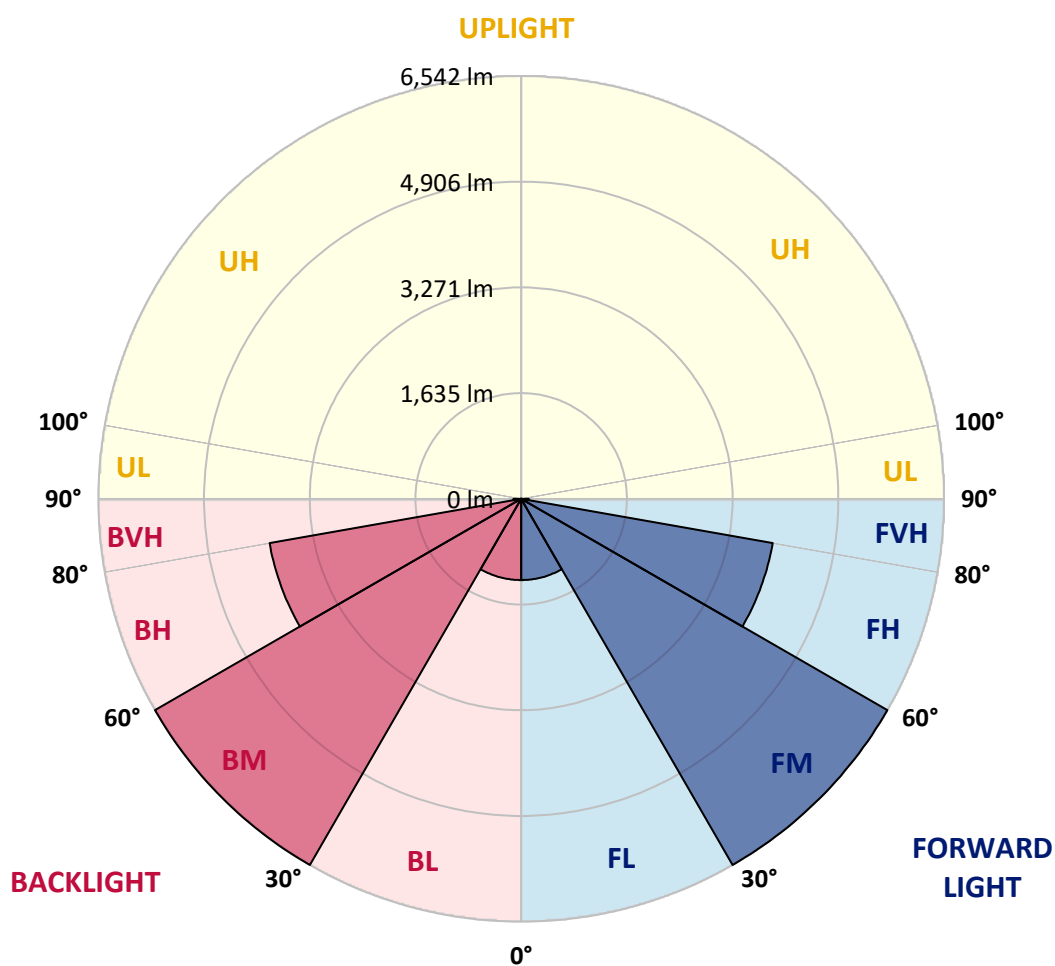
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.0	5.3			
FM	(30°-60°)	6541.5	27.6			
FH	(60°-80°)	3951.9	16.6			G2/5000
FVH	(80°-90°)	118.4	0.5			G2/225
BL	(0°-30°)	1257.0	5.3	B3/2500		
BM	(30°-60°)	6541.5	27.6	B4/8500		
BH	(60°-80°)	3951.9	16.6	B4/5000		G2/5000
BVH	(80°-90°)	118.4	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-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0
2.5°	2628.6	2626.4	2628.6	2627.4	2629.7	2629.7	2631.9	2636.4	2636.4	2639.8	2638.7
5°	2602.8	2601.7	2605.0	2608.3	2611.8	2618.5	2625.2	2635.4	2643.2	2648.8	2654.4
7.5°	2552.3	2552.3	2556.7	2564.7	2572.5	2587.0	2602.8	2623.0	2643.2	2660.0	2674.5
10°	2510.8	2513.1	2518.7	2532.1	2545.5	2568.0	2589.3	2618.5	2646.5	2674.5	2696.9
12.5°	2486.0	2489.5	2499.6	2519.7	2542.1	2572.5	2605.0	2642.0	2673.5	2707.1	2729.6
15°	2494.0	2496.1	2510.8	2535.5	2564.7	2602.8	2646.5	2690.3	2727.3	2763.1	2793.5
17.5°	2537.6	2541.1	2557.9	2585.9	2616.2	2661.1	2708.2	2757.6	2803.6	2844.0	2880.9
20°	2616.2	2619.6	2640.9	2671.2	2707.1	2753.2	2800.2	2851.7	2903.4	2946.0	2987.5
22.5°	2727.3	2732.9	2753.2	2783.4	2823.8	2873.2	2929.2	2984.2	3033.6	3072.8	3109.8
25°	2873.2	2885.5	2904.5	2938.2	2980.8	3025.7	3086.3	3142.4	3189.5	3226.5	3253.4
27.5°	3079.6	3096.4	3110.9	3143.5	3185.0	3227.6	3288.2	3337.7	3382.4	3418.4	3438.6
30°	3353.2	3370.1	3384.8	3416.1	3454.2	3494.6	3551.9	3595.6	3623.7	3651.8	3650.6
32.5°	3685.5	3703.4	3709.0	3742.5	3781.9	3825.6	3877.3	3901.8	3924.4	3927.8	3907.5
35°	4056.7	4065.7	4088.2	4133.1	4177.8	4213.8	4263.2	4275.6	4275.6	4258.7	4213.8
37.5°	4464.0	4469.6	4501.1	4551.5	4597.5	4634.4	4668.2	4692.8	4680.4	4644.6	4569.4
40°	4910.4	4920.6	4965.5	5010.3	5062.0	5096.7	5132.6	5137.2	5124.8	5072.1	4969.9
42.5°	5336.8	5345.7	5390.7	5461.4	5528.6	5576.9	5610.6	5617.2	5578.0	5529.7	5403.0
45°	5703.7	5727.3	5785.6	5868.6	5966.2	6034.6	6080.6	6099.7	6064.9	6002.0	5855.1
47.5°	5994.2	6017.8	6100.8	6199.5	6320.6	6431.8	6508.0	6548.5	6539.5	6492.3	6331.9
50°	6207.3	6229.9	6319.5	6440.8	6582.1	6720.1	6850.2	6946.7	6980.3	6959.0	6812.1
52.5°	6232.0	6269.1	6374.5	6537.2	6721.2	6909.7	7094.7	7258.6	7369.6	7386.5	7277.6
55°	5887.7	5924.7	6070.6	6311.7	6585.5	6892.8	7189.0	7465.0	7683.7	7795.9	7738.8
57.5°	5075.4	5141.6	5295.2	5578.0	5980.8	6440.8	6913.1	7403.3	7848.7	8146.1	8203.1
60°	3889.5	3968.1	4122.9	4423.6	4872.3	5420.9	6051.5	6776.2	7562.6	8231.3	8630.6
62.5°	2495.1	2569.1	2731.8	2993.1	3358.9	3953.5	4630.0	5490.5	6547.4	7603.1	8554.4
65°	1282.2	1322.7	1408.0	1566.1	1851.1	2295.4	2902.4	3760.6	4968.8	6271.4	7646.7
67.5°	812.3	820.1	839.2	861.6	934.5	1088.2	1370.9	1906.0	2900.1	4258.7	5868.6
70°	702.3	702.3	693.4	690.0	698.9	720.2	764.0	888.5	1223.9	2021.7	3384.8
72.5°	642.9	636.1	620.4	608.0	605.9	605.9	614.8	633.8	687.7	823.5	1325.0
75°	592.4	573.3	552.0	537.3	531.8	526.2	525.0	528.4	539.6	560.9	632.7
77.5°	530.7	506.0	481.3	466.7	460.0	452.2	445.3	437.6	431.9	438.6	470.1
80°	456.6	428.6	409.5	400.6	393.8	382.5	367.9	354.5	342.2	339.9	359.0
82.5°	367.9	335.4	336.5	339.9	327.6	311.9	296.2	281.6	260.2	249.1	260.2
85°	297.3	280.5	272.6	293.9	276.0	252.4	227.7	201.9	168.3	141.4	153.7
87.5°	115.6	115.6	172.7	265.9	239.0	195.2	167.1	142.5	88.6	68.4	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°	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0	2633.0
2.5°	2637.5	2639.8	2638.7	2637.5	2637.5	2636.4	2637.5	2637.5
5°	2657.7	2663.3	2663.3	2665.6	2665.6	2666.7	2667.9	2666.7
7.5°	2688.0	2698.1	2704.8	2712.7	2713.8	2715.0	2717.2	2715.0
10°	2718.4	2738.5	2753.2	2767.6	2774.4	2776.8	2778.9	2778.9
12.5°	2756.5	2784.5	2810.3	2836.2	2848.5	2855.2	2855.2	2859.7
15°	2819.3	2847.3	2877.7	2912.5	2933.7	2945.0	2948.4	2948.4
17.5°	2907.9	2932.6	2958.4	2992.1	3019.0	3033.6	3037.0	3035.8
20°	3011.1	3034.6	3049.3	3070.6	3094.1	3110.9	3115.4	3115.4
22.5°	3128.9	3142.4	3144.6	3151.4	3170.4	3192.9	3202.9	3205.2
25°	3259.1	3262.5	3253.4	3253.4	3265.8	3287.1	3297.2	3298.3
27.5°	3427.4	3410.5	3388.1	3380.3	3388.1	3412.8	3425.1	3429.6
30°	3637.1	3596.7	3545.1	3517.0	3512.5	3545.1	3567.7	3570.9
32.5°	3877.3	3818.9	3750.5	3693.3	3678.6	3698.9	3725.7	3724.6
35°	4162.2	4092.7	4009.6	3936.7	3903.1	3923.2	3961.4	3965.9
37.5°	4490.9	4400.0	4304.7	4212.7	4159.9	4165.5	4205.9	4219.4
40°	4857.7	4740.0	4619.9	4496.4	4421.4	4406.8	4456.1	4464.0
42.5°	5250.5	5098.9	4947.5	4795.0	4698.4	4676.0	4733.2	4729.9
45°	5668.9	5476.0	5298.6	5130.4	5016.0	4982.3	5029.4	5029.4
47.5°	6118.7	5880.9	5670.0	5479.3	5354.8	5306.5	5351.4	5354.8
50°	6595.6	6343.1	6095.2	5883.2	5733.9	5672.2	5730.5	5739.6
52.5°	7070.0	6824.5	6574.2	6331.9	6151.3	6076.1	6143.4	6172.6
55°	7551.4	7310.2	7071.3	6834.5	6620.2	6531.6	6603.4	6640.4
57.5°	8059.6	7836.4	7608.6	7369.6	7163.2	7025.3	7101.6	7150.9
60°	8655.3	8464.7	8227.9	7964.2	7755.6	7615.4	7659.1	7702.9
62.5°	9126.5	9200.6	8999.8	8694.7	8426.5	8247.0	8289.6	8335.6
65°	8898.7	9658.3	9836.7	9528.2	9156.8	8877.5	8859.5	8883.1
67.5°	7438.1	8913.4	9989.2	10283.2	9972.4	9584.2	9512.4	9547.2
70°	4975.5	6813.2	8711.5	10124.9	10500.8	10350.4	10279.7	10301.2
72.5°	2389.6	3968.1	5910.1	7789.2	8933.6	9458.6	9626.9	9708.8
75°	874.0	1575.1	2848.5	4292.4	5181.9	5998.7	6531.6	6749.3
77.5°	527.2	636.1	909.8	1369.8	1551.6	1736.6	1664.9	1700.7
80°	390.4	440.9	499.2	560.9	581.1	581.1	558.8	540.8
82.5°	273.7	306.3	334.4	367.9	377.0	360.1	296.2	235.6
85°	176.1	190.7	203.1	224.4	218.7	208.6	140.3	124.5
87.5°	80.8	92.0	96.4	106.5	102.0	97.6	69.6	58.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)