

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: P193427

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-5WQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36953 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 374
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



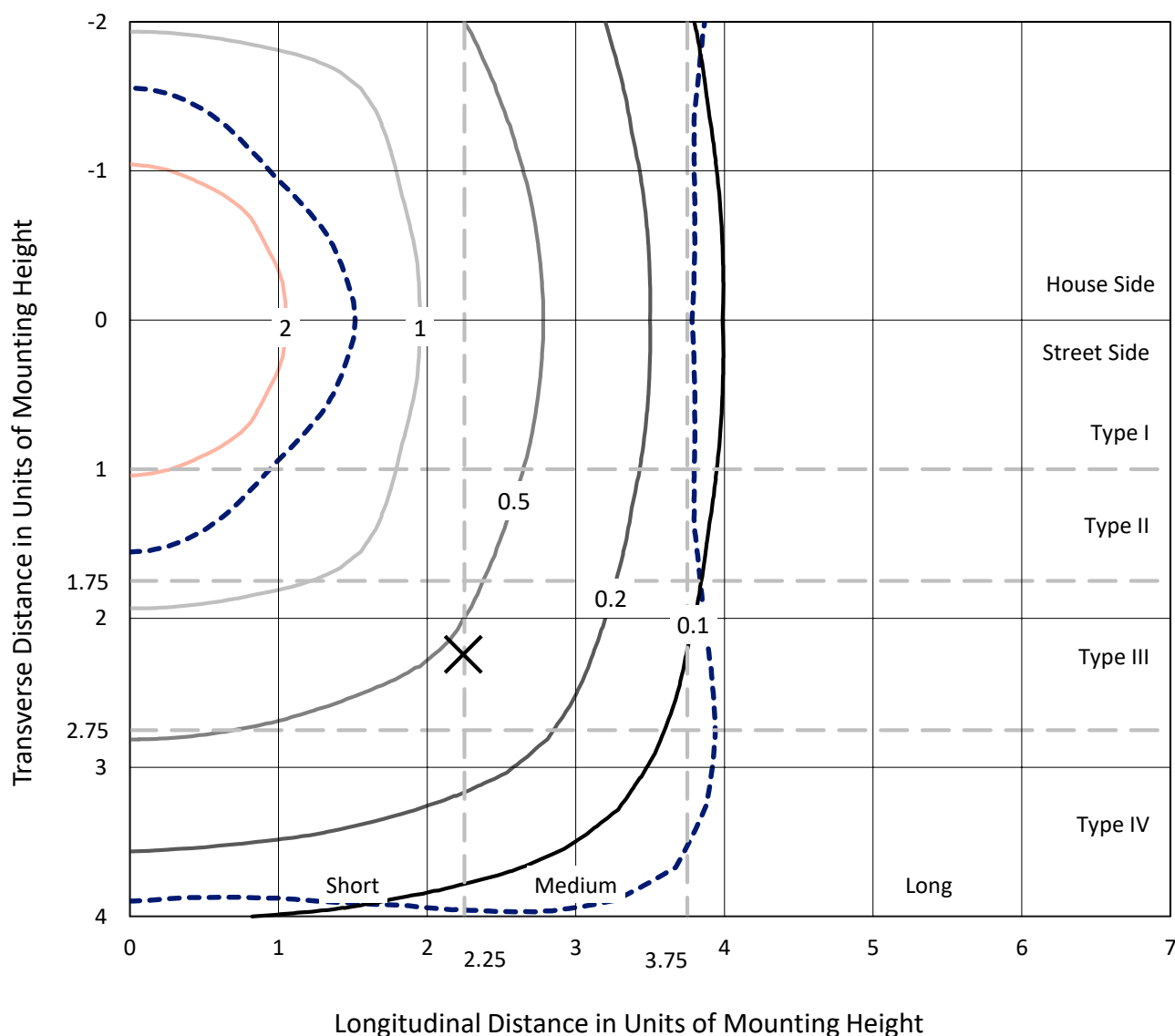
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

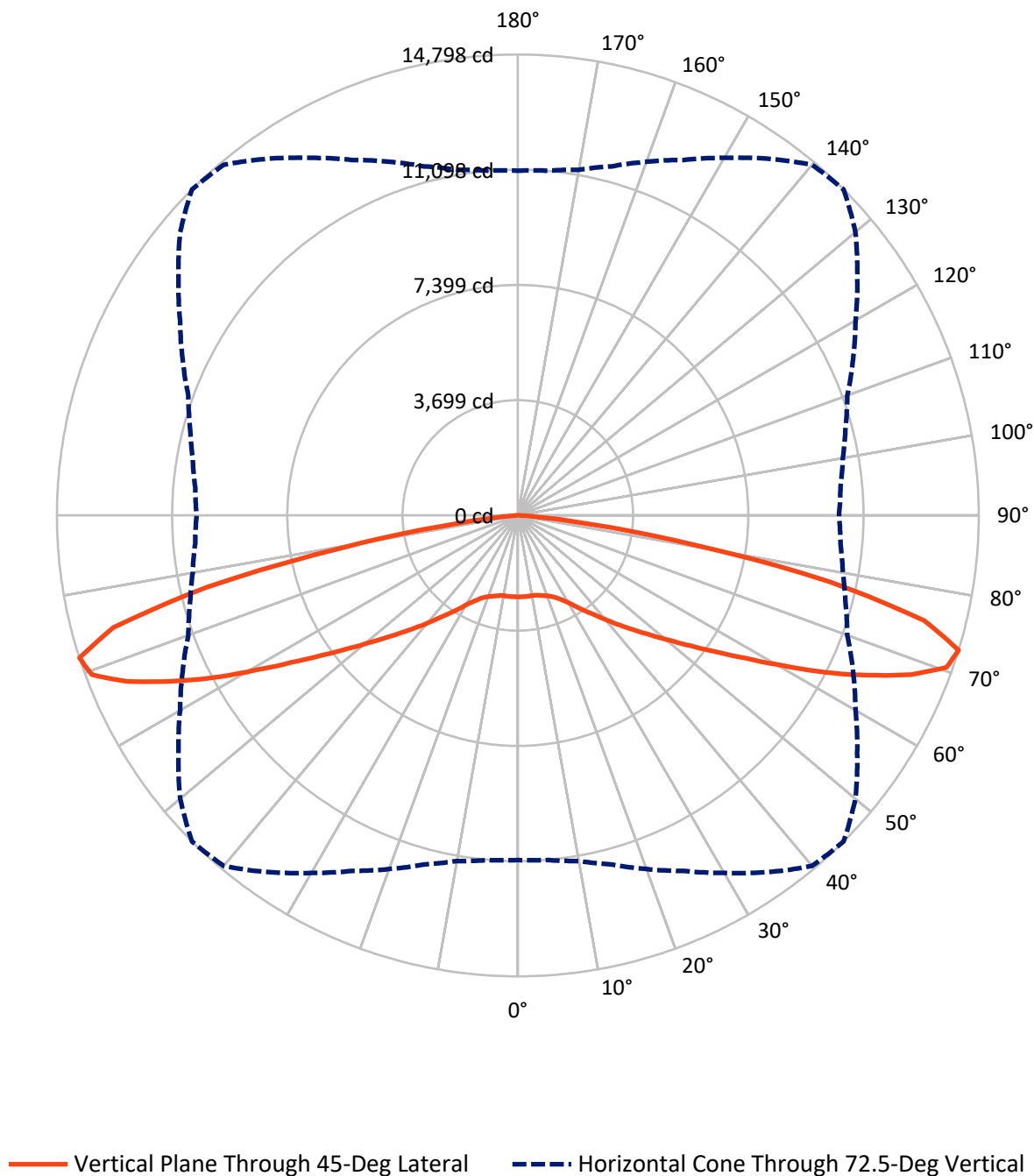


Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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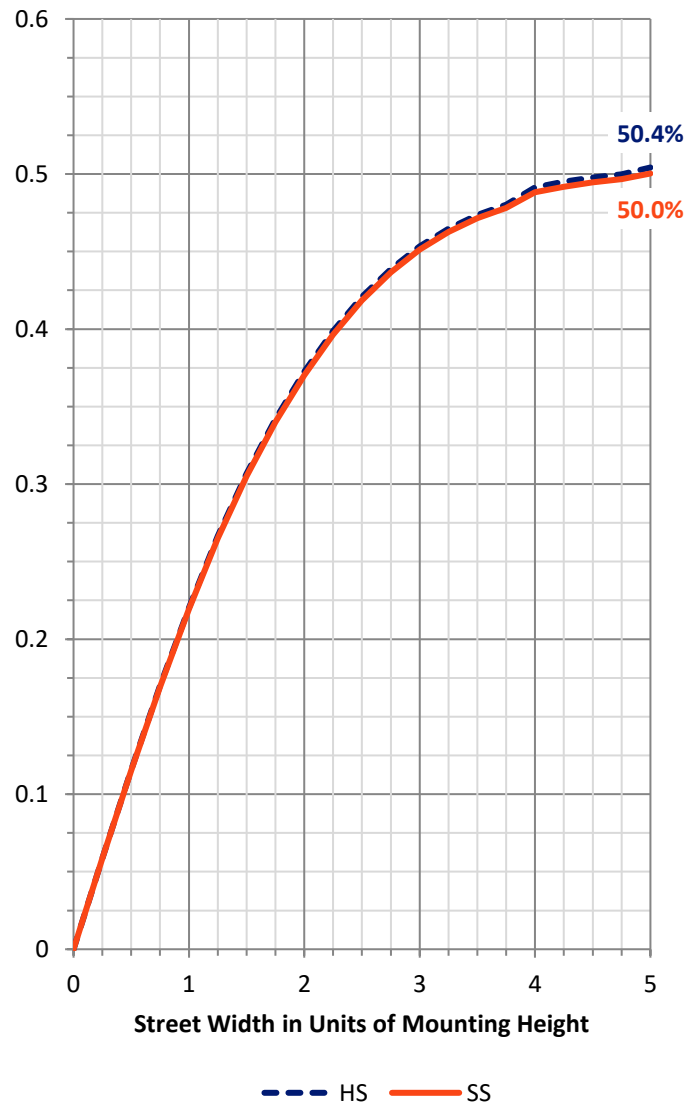
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18476.5	0.0	18476.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18476.5	0.0	18476.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36953.0	0.0	36953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	0.7
10°-20°	758.9	2.1
20°-30°	1386.8	3.8
30°-40°	2391.1	6.5
40°-50°	4087.6	11.1
50°-60°	6625.5	17.9
60°-70°	10991.5	29.7
70°-80°	9681.0	26.2
80°-90°	780.6	2.1
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°	36953.0	100.0
0°-180°	36953.0	100.0

Coefficient of Utilization



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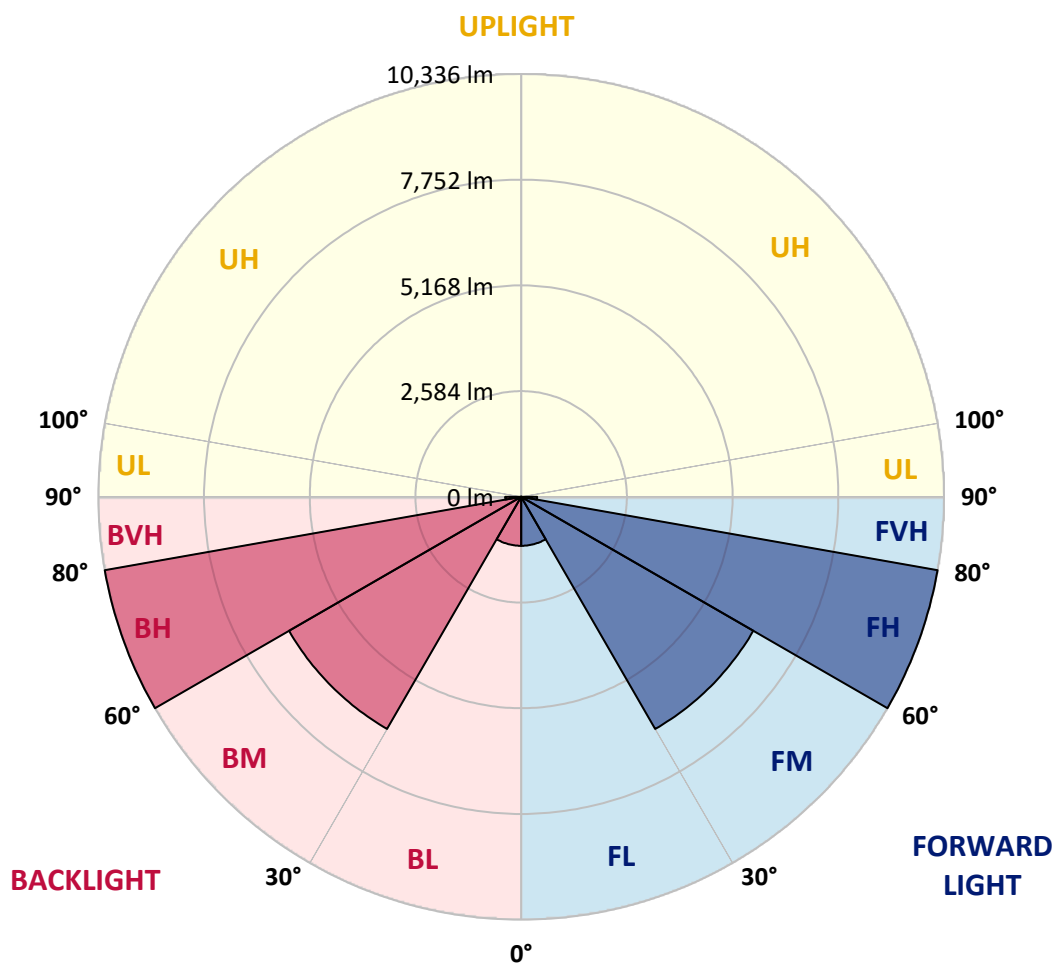
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1197.8	3.2			
FM	(30°-60°)	6552.2	17.7			
FH	(60°-80°)	10336.2	28.0			G4/12000
FVH	(80°-90°)	390.3	1.1			G3/500
BL	(0°-30°)	1197.8	3.2	B3/2500		
BM	(30°-60°)	6552.2	17.7	B4/8500		
BH	(60°-80°)	10336.2	28.0	B5		G4/12000
BVH	(80°-90°)	390.3	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8
2.5°	2616.8	2618.5	2620.2	2618.5	2618.5	2616.8	2615.2	2616.8	2615.2	2611.8	2613.5
5°	2625.3	2628.7	2628.7	2625.3	2627.0	2625.3	2621.9	2623.6	2620.2	2615.2	2615.2
7.5°	2635.5	2637.2	2637.2	2633.8	2635.5	2632.1	2628.7	2627.0	2623.6	2616.8	2611.8
10°	2650.7	2652.4	2650.7	2647.4	2647.4	2642.3	2633.8	2630.4	2623.6	2613.5	2608.4
12.5°	2667.7	2669.4	2667.7	2664.3	2662.6	2654.1	2647.4	2642.3	2637.2	2628.7	2620.2
15°	2691.4	2694.8	2691.4	2684.6	2679.6	2672.8	2669.4	2671.1	2672.8	2666.0	2657.5
17.5°	2735.5	2737.2	2732.1	2716.8	2710.1	2703.3	2703.3	2706.7	2711.8	2708.4	2699.9
20°	2816.8	2811.8	2799.9	2781.2	2772.8	2760.9	2759.2	2760.9	2760.9	2759.2	2752.4
22.5°	2918.5	2915.1	2899.9	2876.2	2864.3	2857.5	2847.3	2838.9	2837.2	2832.1	2825.3
25°	3040.6	3038.9	3020.2	2999.9	2991.4	2982.9	2974.5	2962.6	2952.4	2940.6	2933.8
27.5°	3196.5	3189.7	3162.6	3152.4	3140.6	3135.5	3123.6	3110.0	3101.6	3086.3	3077.8
30°	3367.7	3367.7	3345.6	3342.2	3342.2	3330.4	3316.8	3293.1	3277.8	3262.6	3257.5
32.5°	3538.8	3540.5	3518.5	3525.3	3530.4	3538.8	3542.2	3533.8	3523.6	3521.9	3511.7
35°	3786.3	3779.5	3757.5	3762.6	3760.9	3759.2	3759.2	3777.8	3781.2	3784.6	3764.3
37.5°	4093.1	4093.1	4071.0	4071.0	4060.9	4050.7	4037.1	4049.0	4067.6	4072.7	4059.2
40°	4443.9	4455.8	4428.6	4426.9	4430.3	4398.1	4382.9	4401.5	4413.4	4433.7	4418.5
42.5°	4857.4	4849.0	4821.8	4818.5	4799.8	4789.6	4776.1	4791.3	4810.0	4823.5	4828.6
45°	5254.0	5247.3	5216.7	5216.7	5198.1	5189.6	5196.4	5221.8	5230.3	5248.9	5267.6
47.5°	5645.5	5637.1	5616.7	5625.2	5626.9	5642.2	5664.2	5687.9	5711.6	5737.1	5745.5
50°	6045.5	6047.2	6025.2	6045.5	6070.9	6113.3	6172.6	6211.6	6260.8	6293.0	6303.1
52.5°	6409.9	6416.7	6440.4	6487.9	6538.7	6621.8	6723.5	6818.4	6899.7	6954.0	6950.6
55°	6847.2	6857.4	6915.0	6996.3	7079.4	7204.8	7355.6	7523.4	7659.0	7737.0	7687.8
57.5°	7406.5	7428.5	7492.9	7603.1	7726.8	7889.5	8096.3	8348.8	8559.0	8664.1	8584.4
60°	8174.3	8187.8	8265.8	8387.8	8537.0	8738.6	9014.9	9353.9	9650.5	9789.4	9697.9
62.5°	9186.1	9211.5	9274.2	9397.9	9550.5	9779.3	10116.6	10540.3	10909.7	11103.0	10896.2
65°	10394.5	10475.9	10528.4	10653.8	10796.2	11038.5	11391.1	11845.3	12241.9	12369.0	12130.0
67.5°	11591.1	11662.3	11753.8	11897.8	12041.9	12314.8	12641.9	13082.5	13518.1	13633.4	13262.2
70°	12114.8	12155.5	12297.8	12494.4	12770.7	13092.7	13470.7	13965.6	14504.5	14599.4	14128.3
72.5°	11065.7	11106.3	11265.7	11599.5	12080.9	12592.7	13252.0	13979.1	14690.9	14797.7	14148.6
75°	8369.2	8303.1	8538.6	8981.0	9630.1	10343.7	11265.7	12308.0	13336.8	13470.7	12696.1
77.5°	4325.3	4316.8	4494.7	5043.9	5818.4	6630.2	7645.5	8823.4	9830.1	10236.9	9606.4
80°	1218.6	1232.2	1316.9	1589.8	2042.3	2628.7	3421.9	4525.2	5348.9	5769.3	5416.7
82.5°	477.9	515.2	547.4	598.3	657.6	744.0	993.2	1477.9	1983.0	2369.4	1940.6
85°	171.2	183.0	259.3	306.8	311.9	328.8	374.6	437.3	527.1	628.8	516.9
87.5°	64.4	71.2	83.0	137.3	135.6	123.7	150.8	157.6	118.6	108.5	133.9
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°	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8	2616.8
2.5°	2610.1	2611.8	2611.8	2613.5	2615.2	2615.2	2618.5	2618.5
5°	2611.8	2611.8	2608.4	2610.1	2608.4	2608.4	2610.1	2610.1
7.5°	2608.4	2606.7	2603.3	2601.6	2598.2	2598.2	2598.2	2598.2
10°	2603.3	2601.6	2598.2	2596.5	2594.8	2594.8	2594.8	2594.8
12.5°	2616.8	2611.8	2608.4	2606.7	2606.7	2606.7	2606.7	2606.7
15°	2652.4	2640.6	2632.1	2632.1	2633.8	2637.2	2637.2	2640.6
17.5°	2696.5	2682.9	2674.5	2667.7	2671.1	2676.2	2679.6	2682.9
20°	2749.0	2742.3	2730.4	2723.6	2723.6	2730.4	2733.8	2735.5
22.5°	2821.9	2816.8	2811.8	2803.3	2803.3	2806.7	2813.4	2813.4
25°	2930.4	2927.0	2923.6	2916.8	2915.1	2915.1	2918.5	2921.9
27.5°	3066.0	3067.7	3064.3	3062.6	3057.5	3055.8	3060.9	3059.2
30°	3247.3	3255.8	3264.3	3257.5	3249.0	3243.9	3238.9	3232.1
32.5°	3493.1	3482.9	3476.1	3464.3	3449.0	3435.5	3425.3	3413.4
35°	3725.3	3708.3	3701.5	3711.7	3710.0	3701.5	3689.7	3679.5
37.5°	4010.0	4006.6	4010.0	4028.7	4025.3	4033.7	4010.0	4008.3
40°	4369.3	4372.7	4396.4	4418.5	4430.3	4442.2	4428.6	4415.1
42.5°	4786.3	4784.6	4793.0	4823.5	4843.9	4857.4	4828.6	4825.2
45°	5226.9	5215.0	5221.8	5247.3	5267.6	5282.8	5250.6	5250.6
47.5°	5711.6	5691.3	5669.3	5698.1	5709.9	5720.1	5694.7	5686.2
50°	6252.3	6209.9	6162.5	6174.3	6174.3	6170.9	6138.7	6137.0
52.5°	6872.6	6794.6	6708.2	6676.0	6657.4	6637.0	6581.1	6554.0
55°	7586.1	7469.2	7333.6	7250.6	7206.5	7150.6	7057.4	7031.9
57.5°	8420.0	8237.0	8003.1	7901.4	7803.1	7711.6	7608.2	7579.4
60°	9408.1	9138.6	8828.5	8640.3	8533.6	8445.4	8338.7	8333.6
62.5°	10509.8	10084.3	9733.5	9564.0	9486.1	9408.1	9306.4	9320.0
65°	11630.1	11186.0	10857.2	10719.9	10647.0	10582.6	10480.9	10496.2
67.5°	12735.1	12326.6	11965.6	11825.0	11743.6	11662.3	11570.7	11586.0
70°	13528.3	13021.5	12614.8	12302.9	12108.0	11887.7	11745.3	11709.7
72.5°	13301.2	12519.8	11874.1	11255.5	10892.8	10597.9	10397.9	10311.5
75°	11511.4	10443.7	9613.2	8853.9	8426.8	8079.3	7826.8	7669.2
77.5°	8548.8	7348.9	6367.5	5493.0	4801.5	4337.1	4010.0	3798.2
80°	4679.5	3559.2	2601.6	1828.7	1344.0	1116.9	986.4	923.7
82.5°	1457.6	940.6	693.2	598.3	555.9	532.2	493.2	430.5
85°	464.4	406.8	378.0	361.0	344.1	300.0	206.8	188.1
87.5°	179.7	184.7	183.0	172.9	176.3	127.1	101.7	89.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)