

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: P381120

Luminaire Tested: **USSL-XL-PA3A-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3A-730-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22488 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 172
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



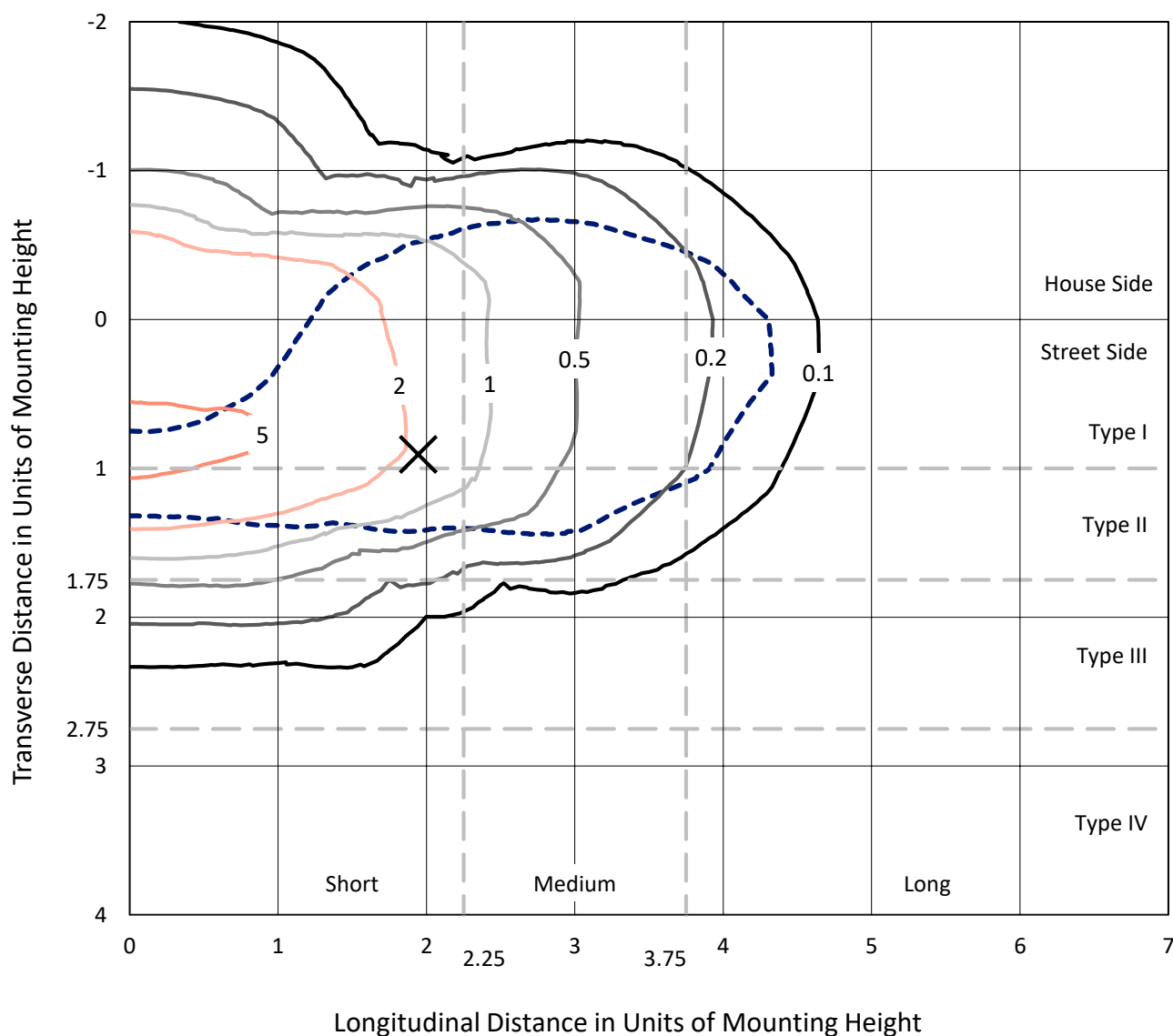
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

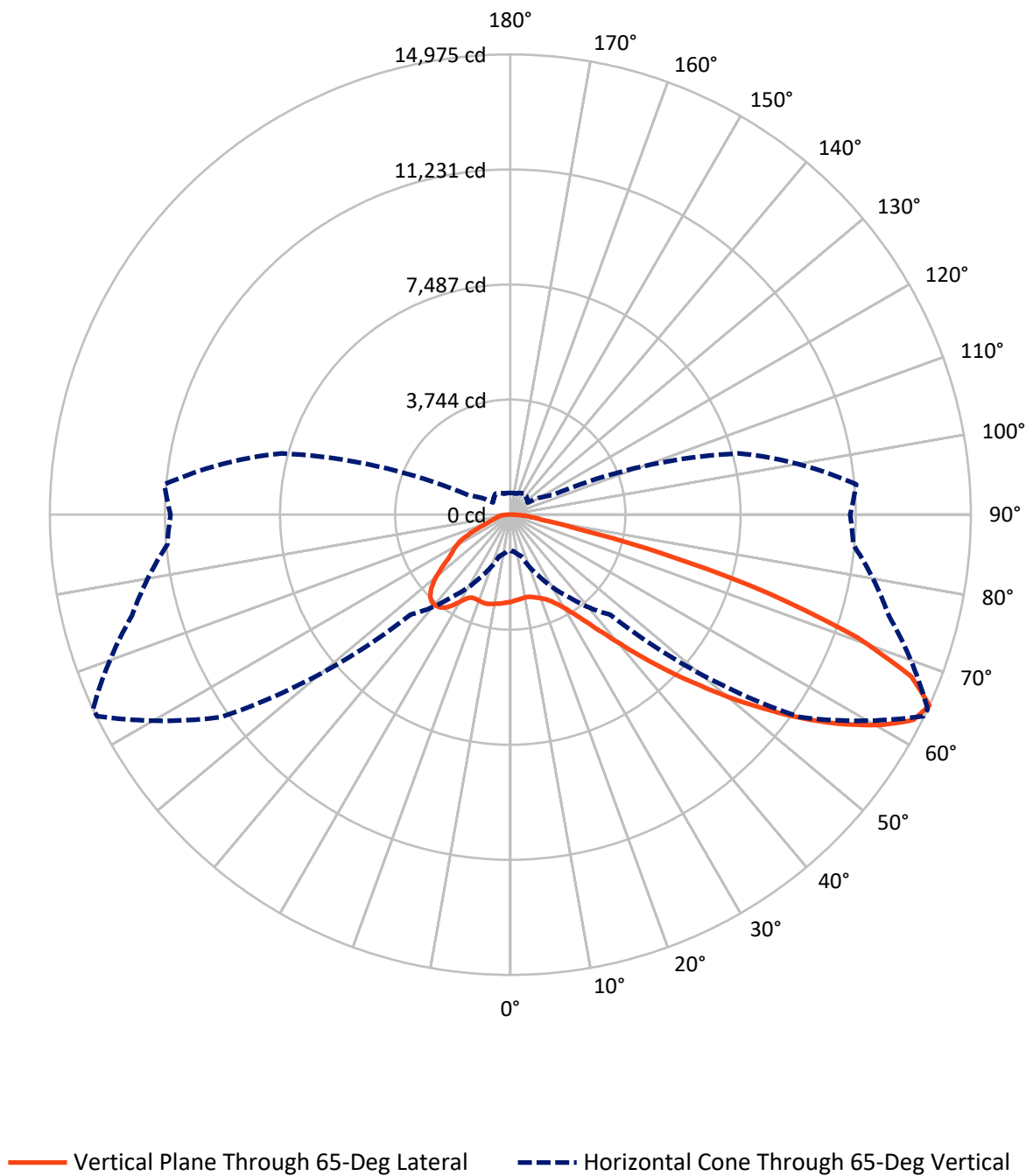


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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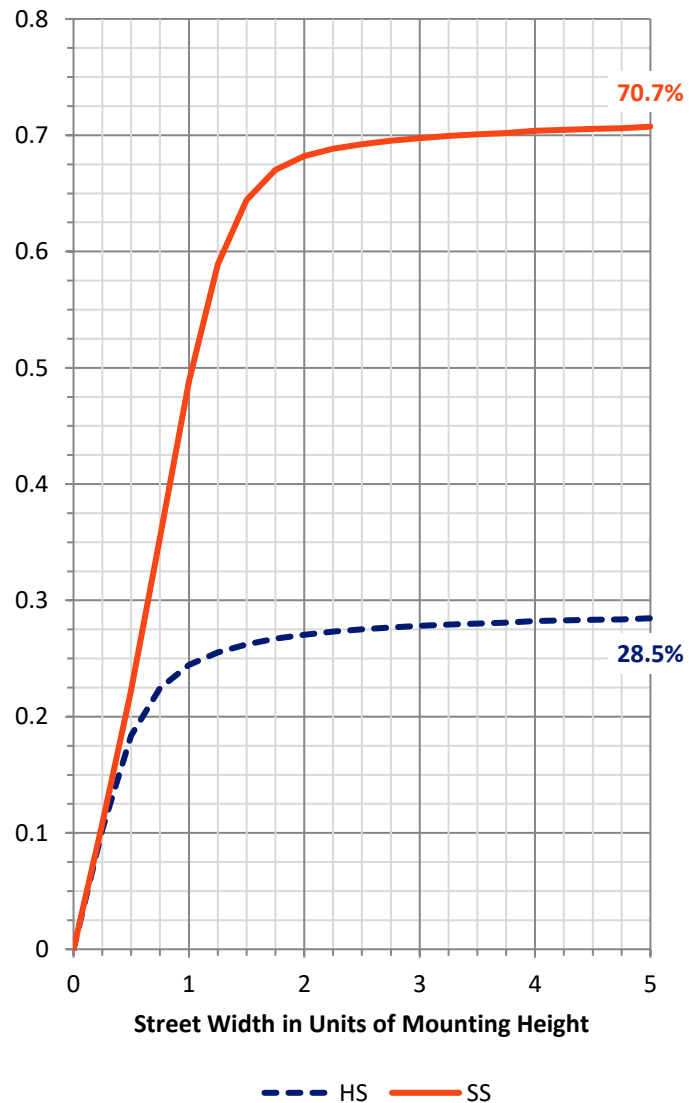
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6501.6	0.0	6501.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15986.4	0.0	15986.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	22488.0	0.0	22488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	1.2
10°-20°	808.3	3.6
20°-30°	1435.7	6.4
30°-40°	2428.9	10.8
40°-50°	4228.2	18.8
50°-60°	5464.2	24.3
60°-70°	4781.4	21.3
70°-80°	2600.8	11.6
80°-90°	469.9	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°	22488.0	100.0
0°-180°	22488.0	100.0

Coefficient of Utilization



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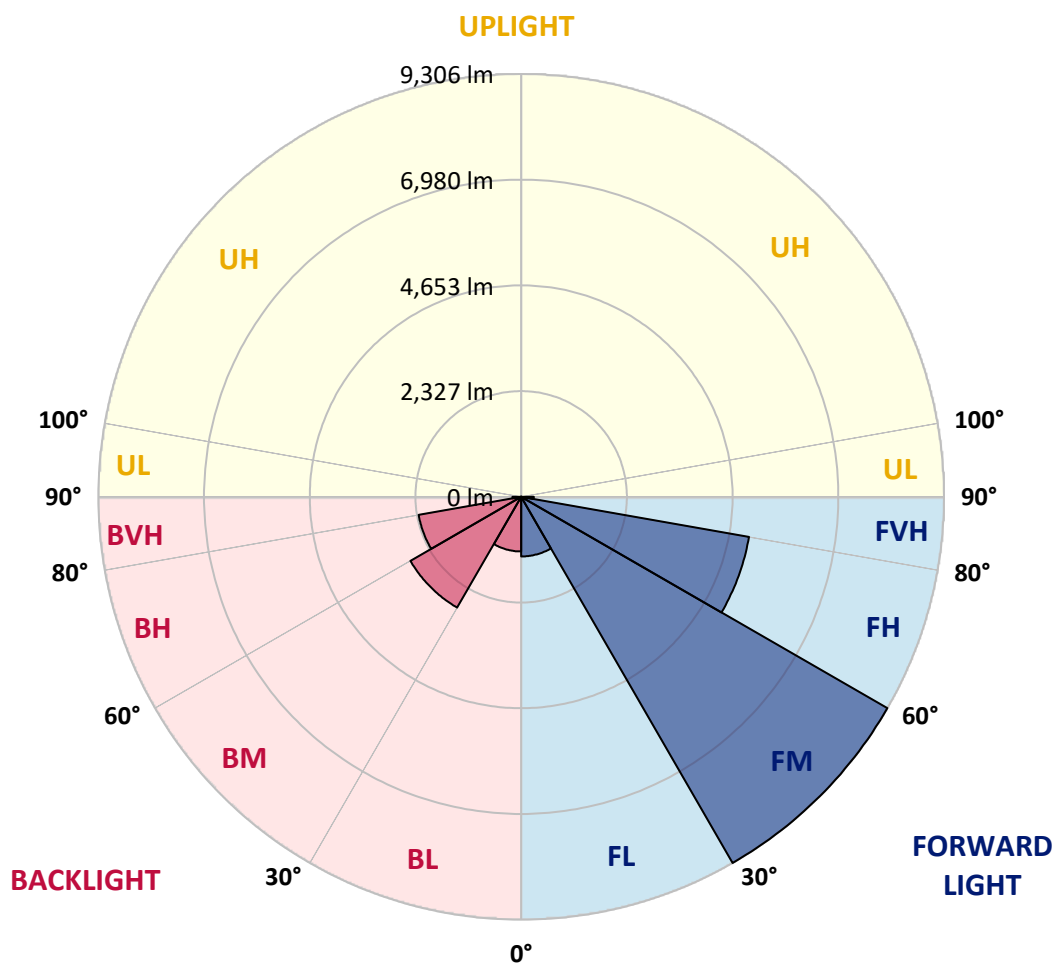
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.1	5.8			
FM	(30°-60°)	9306.1	41.4			
FH	(60°-80°)	5091.6	22.6			G3/7500
FVH	(80°-90°)	276.5	1.2			G3/500
BL	(0°-30°)	1202.6	5.3	B3/2500		
BM	(30°-60°)	2815.1	12.5	B3/5000		
BH	(60°-80°)	2290.6	10.2	B3/2500		G3/2500
BVH	(80°-90°)	193.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6
2.5°	2791.3	2788.3	2782.4	2788.3	2791.3	2797.2	2794.2	2800.1	2797.2	2806.1	2820.9
5°	2720.2	2714.3	2711.3	2726.1	2735.0	2749.8	2755.7	2776.5	2773.5	2788.3	2812.0
7.5°	2640.3	2640.3	2637.3	2655.1	2666.9	2693.6	2714.3	2749.8	2752.8	2779.4	2806.1
10°	2578.1	2581.1	2578.1	2592.9	2610.7	2643.3	2678.8	2729.1	2732.1	2770.5	2797.2
12.5°	2554.5	2554.5	2554.5	2575.2	2598.9	2643.3	2684.7	2738.0	2743.9	2785.3	2809.0
15°	2587.0	2590.0	2584.1	2604.8	2631.4	2684.7	2723.2	2779.4	2785.3	2823.8	2838.6
17.5°	2702.5	2714.3	2699.5	2711.3	2705.4	2746.9	2782.4	2838.6	2841.6	2874.1	2880.1
20°	2930.4	2942.2	2918.5	2903.7	2850.5	2847.5	2862.3	2906.7	2906.7	2927.4	2912.6
22.5°	3282.6	3294.5	3253.0	3196.8	3069.5	3007.3	2974.8	2995.5	2992.5	3001.4	2962.9
25°	3750.3	3747.3	3697.0	3593.4	3389.2	3238.2	3158.3	3125.7	3125.7	3108.0	3060.6
27.5°	4330.4	4286.0	4197.2	4072.9	3788.8	3578.6	3406.9	3324.1	3309.3	3256.0	3167.2
30°	4949.1	4916.5	4789.2	4608.7	4280.1	4010.8	3726.6	3560.8	3552.0	3436.5	3303.3
32.5°	5677.2	5624.0	5481.9	5265.8	4872.1	4493.2	4138.0	3886.4	3871.6	3688.1	3504.6
35°	6612.6	6568.2	6292.9	6076.8	5570.7	5073.4	4653.1	4318.6	4306.8	4081.8	3848.0
37.5°	7734.4	7619.0	7352.6	6947.1	6414.3	5825.2	5292.4	4872.1	4857.3	4608.7	4312.7
40°	8734.9	8631.3	8394.5	8021.5	7450.3	6796.1	6073.9	5564.8	5550.0	5248.0	4875.1
42.5°	9474.9	9403.8	9249.9	9033.8	8625.4	8228.7	7071.4	6402.4	6375.8	5985.1	5520.4
45°	9904.1	9847.8	9759.0	9812.3	9806.4	9732.4	8261.3	7399.9	7314.1	6807.9	6239.6
47.5°	9800.5	9750.2	9785.7	10200.1	10771.3	11200.5	9646.6	8421.1	8305.7	7645.6	7006.3
50°	9051.6	9072.3	9258.8	10052.1	11333.7	12286.9	11182.8	9584.4	9430.5	8489.2	7734.4
52.5°	7687.1	7737.4	8190.2	9300.2	11271.6	12991.3	12571.0	10786.1	10581.9	9312.1	8397.4
55°	6106.4	6233.7	6819.8	7986.0	10460.5	13041.6	13618.8	11993.8	11768.9	10084.6	8974.6
57.5°	4516.9	4706.4	5384.2	6455.7	8906.6	12245.4	14142.8	13148.2	12875.9	10851.3	9584.4
60°	2865.3	2980.7	3762.1	5026.0	6816.8	10297.8	14074.7	14130.9	13894.1	11614.9	10220.8
62.5°	1829.3	1885.5	2279.2	3584.5	4765.6	7624.9	13331.7	14873.9	14714.0	12310.5	10824.6
65°	1175.1	1198.8	1400.1	2205.2	3244.1	4602.8	11481.7	14953.8	14974.5	12745.6	11197.6
67.5°	956.1	967.9	1041.9	1361.6	2294.0	2542.6	7997.9	13817.2	14068.8	12633.2	11070.3
70°	870.2	885.0	962.0	1086.3	1776.0	1755.3	3871.6	11561.7	11973.1	11984.9	10504.9
72.5°	734.1	754.8	858.4	1027.1	1373.4	1385.3	1639.8	8234.6	8841.4	10712.1	9655.4
75°	612.7	624.6	713.4	905.8	1163.3	1107.0	1151.4	4366.0	5242.1	8589.8	8752.6
77.5°	497.3	509.1	574.2	722.2	1033.0	861.4	905.8	1808.5	2234.8	5831.1	7154.3
80°	355.2	367.0	441.0	562.4	781.4	775.5	671.9	997.5	1083.4	3152.4	4647.2
82.5°	254.6	263.4	334.5	402.6	541.7	778.5	506.2	677.8	710.4	1397.1	1873.7
85°	171.7	171.7	230.9	266.4	349.3	491.4	408.5	458.8	479.5	663.0	506.2
87.5°	74.0	74.0	124.3	136.2	183.5	227.9	304.9	230.9	236.8	358.2	207.2
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°	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6	2841.6
2.5°	2829.7	2832.7	2838.6	2856.4	2868.2	2886.0	2894.9	2906.7	2906.7	2900.8	2903.7
5°	2823.8	2832.7	2853.4	2886.0	2906.7	2939.3	2962.9	2980.7	2986.6	2980.7	2983.7
7.5°	2820.9	2835.7	2871.2	2918.5	2948.1	2989.6	3022.1	3042.9	3057.7	3051.7	3054.7
10°	2812.0	2835.7	2880.1	2939.3	2983.7	3025.1	3054.7	3063.6	3072.5	3066.5	3063.6
12.5°	2823.8	2850.5	2897.8	2968.9	3019.2	3051.7	3060.6	3045.8	3025.1	3013.3	3010.3
15°	2847.5	2874.1	2921.5	2995.5	3039.9	3051.7	3031.0	2983.7	2936.3	2909.7	2906.7
17.5°	2880.1	2897.8	2936.3	3001.4	3036.9	3022.1	2980.7	2924.5	2888.9	2868.2	2871.2
20°	2900.8	2900.8	2930.4	2980.7	3010.3	2998.5	2948.1	2886.0	2829.7	2803.1	2794.2
22.5°	2930.4	2915.6	2918.5	2962.9	3004.4	2986.6	2880.1	2770.5	2690.6	2661.0	2658.1
25°	3010.3	2968.9	2942.2	2968.9	3066.5	2921.5	2708.4	2581.1	2507.1	2480.5	2483.4
27.5°	3108.0	3051.7	2995.5	3039.9	3116.9	2773.5	2489.3	2344.3	2299.9	2279.2	2288.1
30°	3205.7	3131.7	3057.7	3217.5	3081.3	2542.6	2208.1	2066.1	2027.6	2012.8	2024.6
32.5°	3386.2	3264.9	3176.1	3454.3	2971.8	2279.2	1903.3	1773.0	1737.5	1719.7	1713.8
35°	3688.1	3534.2	3445.4	3661.5	2817.9	1986.1	1625.0	1533.3	1494.8	1456.3	1450.4
37.5°	4123.2	3936.8	3856.8	3779.9	2601.8	1696.1	1411.9	1349.7	1293.5	1234.3	1231.3
40°	4644.2	4401.5	4342.3	3833.2	2302.9	1423.7	1263.9	1204.7	1133.7	1077.4	1080.4
42.5°	5245.1	4934.3	4807.0	3818.4	1932.9	1278.7	1157.3	1092.2	1030.1	979.8	976.8
45°	5887.4	5535.2	5242.1	3714.8	1565.8	1178.1	1092.2	1015.3	953.1	896.9	891.0
47.5°	6597.8	6204.1	5644.7	3513.5	1293.5	1107.0	1053.8	944.2	888.0	852.5	852.5
50°	7314.1	6843.5	6014.7	3208.6	1133.7	1053.8	997.5	905.8	861.4	831.8	831.8
52.5°	7926.8	7509.5	6319.5	2844.5	1033.0	1009.4	959.0	888.0	840.6	814.0	811.0
55°	8521.8	8128.1	6591.9	2483.4	950.2	950.2	950.2	873.2	819.9	796.2	793.3
57.5°	9113.8	8779.3	6876.0	2246.6	876.2	899.8	932.4	855.4	802.2	781.4	778.5
60°	9782.7	9560.7	7204.6	2080.9	811.0	846.6	908.7	834.7	772.6	754.8	751.8
62.5°	10493.1	10493.1	7503.5	1847.0	751.8	802.2	873.2	808.1	745.9	731.1	728.2
65°	11049.6	11289.3	7695.9	1497.7	692.6	757.8	831.8	772.6	710.4	707.4	701.5
67.5°	11114.7	11490.6	7574.6	1130.7	639.4	710.4	790.3	734.1	674.9	674.9	666.0
70°	10647.0	11028.9	7195.7	846.6	600.9	663.0	737.0	686.7	630.5	636.4	621.6
72.5°	9865.6	9960.3	6254.4	669.0	556.5	612.7	671.9	633.4	583.1	583.1	562.4
75°	8835.5	8308.6	4543.6	559.4	503.2	553.5	606.8	574.2	529.8	515.0	503.2
77.5°	7032.9	6020.6	2640.3	482.5	458.8	497.3	532.8	509.1	470.6	438.1	438.1
80°	4286.0	3528.3	1166.2	417.4	405.5	435.1	458.8	432.2	399.6	367.0	358.2
82.5°	1630.9	1361.6	565.4	358.2	355.2	373.0	390.7	364.1	340.4	325.6	281.2
85°	447.0	411.4	387.8	299.0	293.0	290.1	310.8	299.0	266.4	219.0	195.4
87.5°	168.7	192.4	210.2	183.5	195.4	180.6	207.2	189.4	168.7	109.5	97.7
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)