

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: P381377

Luminaire Tested: **USSL-XL-PA3B-730-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3B-730-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19441 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 234
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



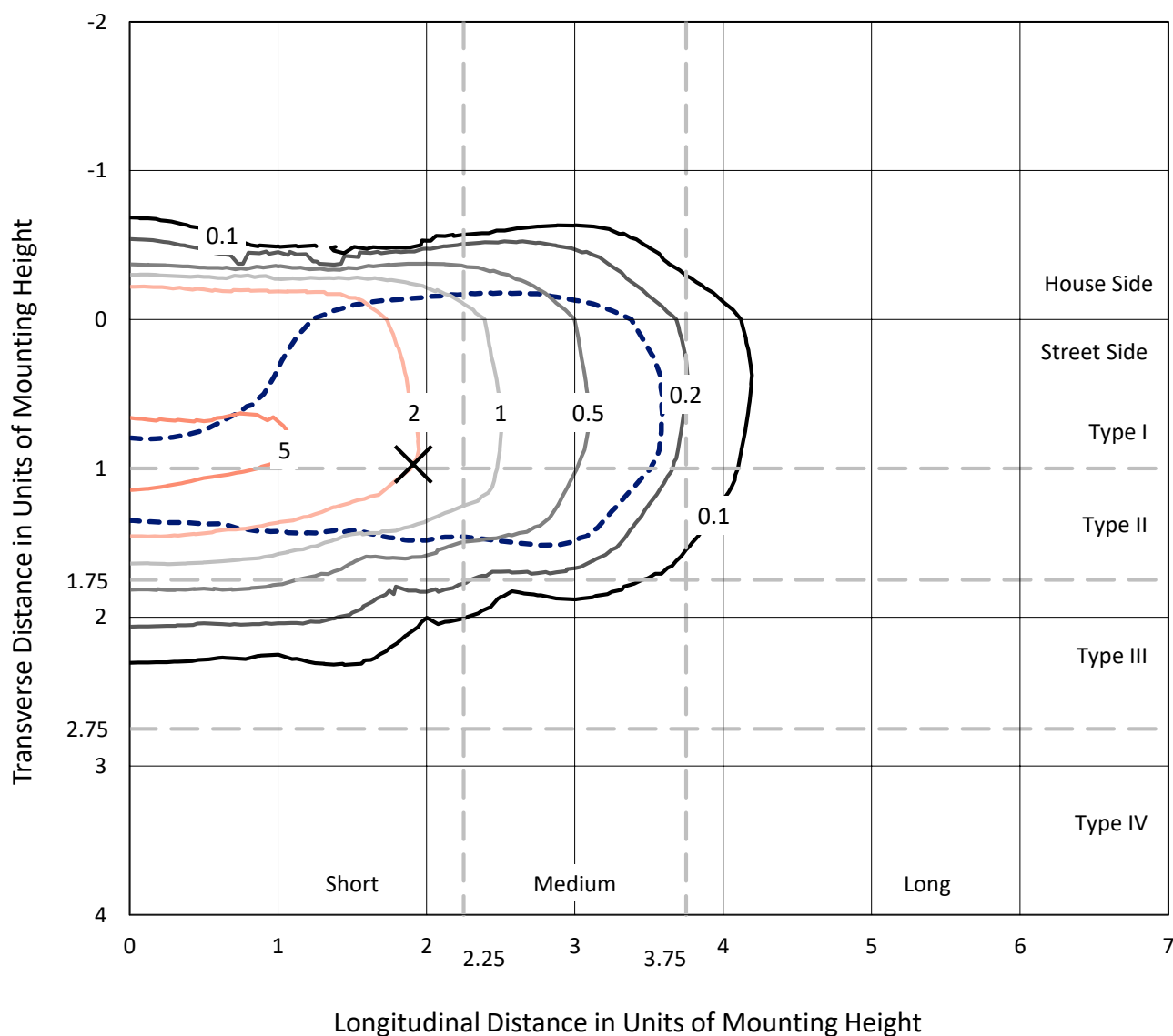
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

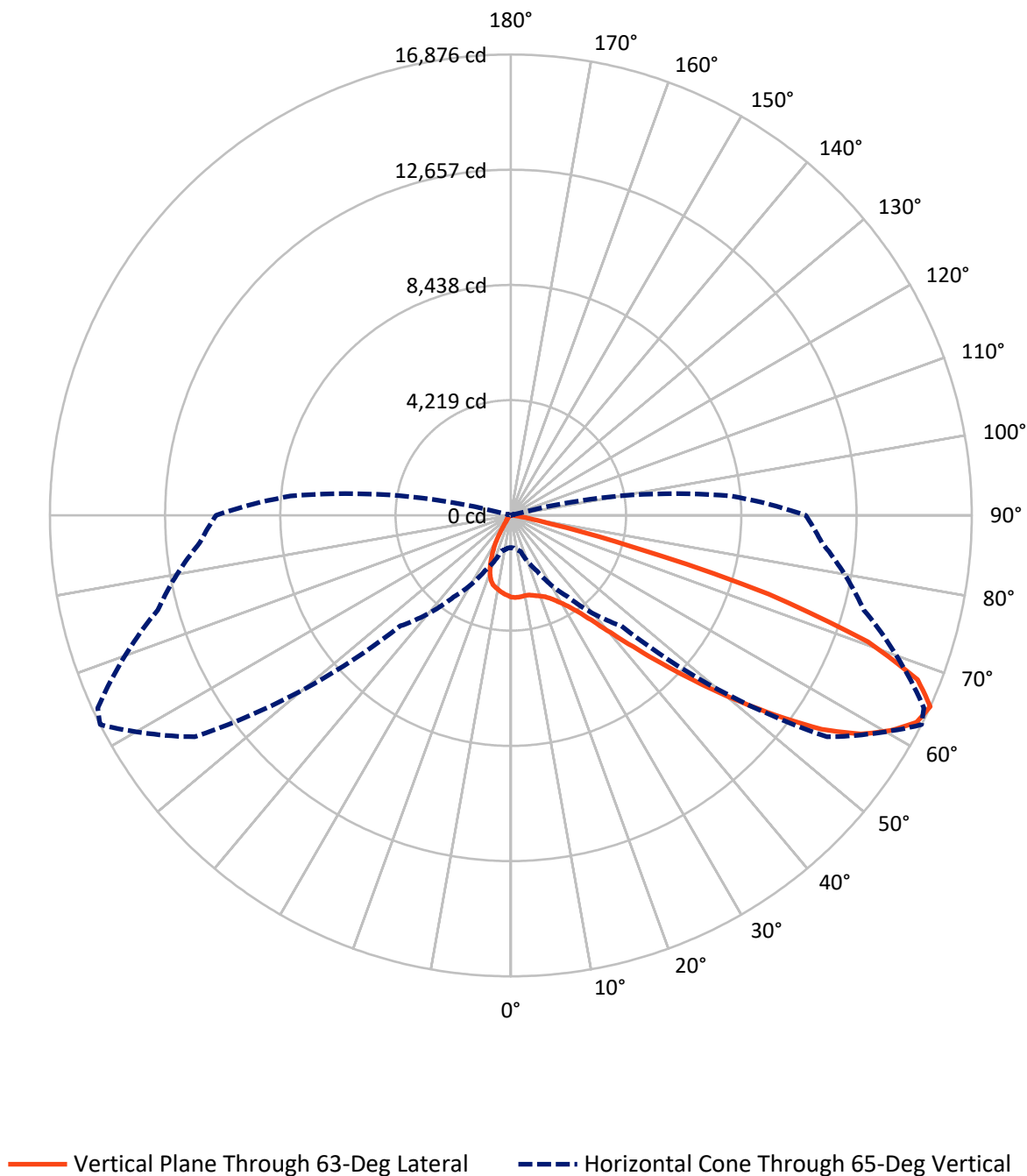


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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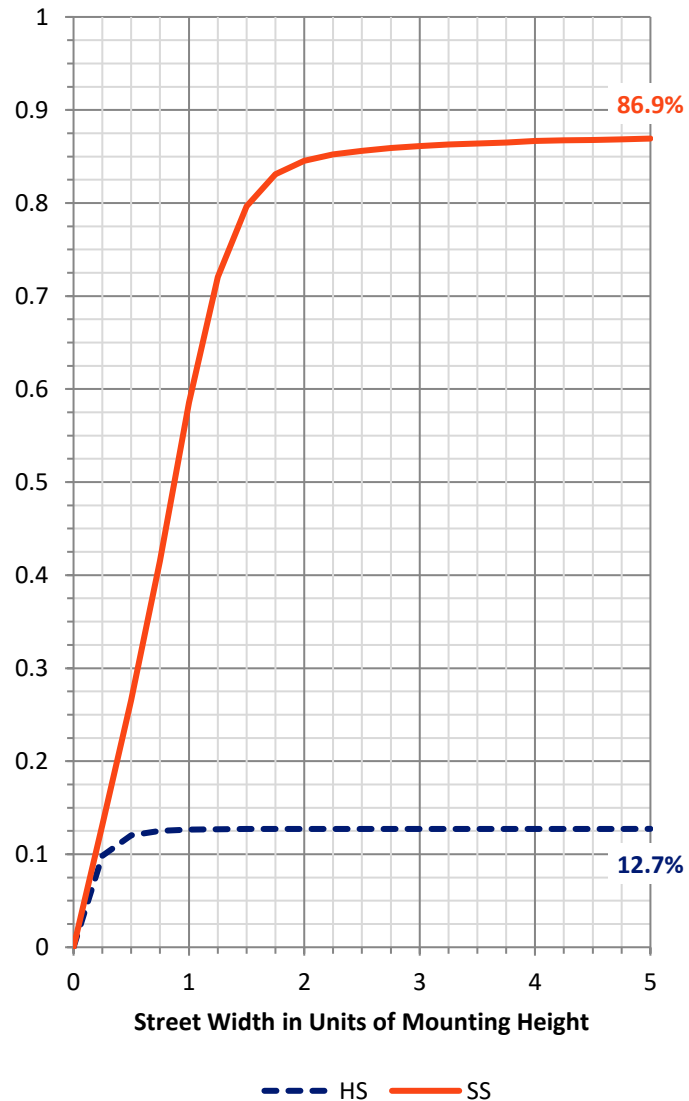
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2502.0	0.0	2502.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16939.0	0.0	16939.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	19441.0	0.0	19441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	1.4
10°-20°	674.1	3.5
20°-30°	999.2	5.1
30°-40°	1855.3	9.5
40°-50°	3930.3	20.2
50°-60°	5434.6	28.0
60°-70°	4350.6	22.4
70°-80°	1807.6	9.3
80°-90°	116.1	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°	19441.0	100.0
0°-180°	19441.0	100.0

Coefficient of Utilization



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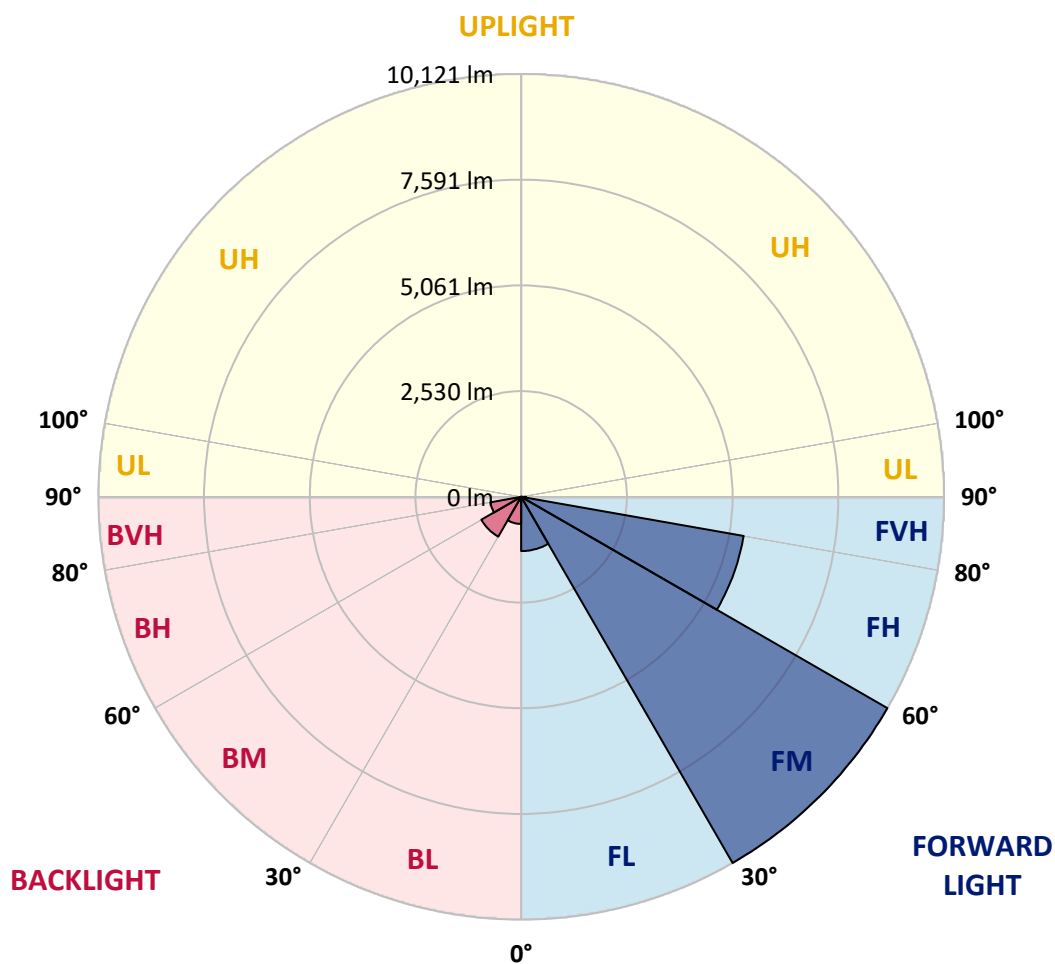
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.2	6.7			
FM	(30°-60°)	10121.1	52.1			
FH	(60°-80°)	5408.9	27.8			G3/7500
FVH	(80°-90°)	110.8	0.6			G2/225
BL	(0°-30°)	648.4	3.3	B2/1000		
BM	(30°-60°)	1099.1	5.7	B2/2500		
BH	(60°-80°)	749.2	3.9	B2/1000		G2/1000
BVH	(80°-90°)	5.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9
2.5°	3046.3	3038.9	3031.6	3027.9	3027.9	3024.3	3009.6	3005.9	2998.6	2991.2	2983.9
5°	3016.9	3005.9	3002.2	3005.9	3009.6	3016.9	3009.6	3009.6	3002.2	2994.9	2980.2
7.5°	2943.5	2936.2	2939.8	2950.9	2954.5	2980.2	2983.9	2994.9	2994.9	2987.6	2976.5
10°	2855.4	2851.8	2851.8	2870.1	2888.5	2925.2	2950.9	2980.2	2983.9	2983.9	2965.5
12.5°	2789.4	2785.7	2796.7	2818.7	2855.4	2903.1	2947.2	2991.2	2998.6	3002.2	2972.9
15°	2749.0	2749.0	2763.7	2807.7	2859.1	2925.2	2976.5	3035.3	3042.6	3038.9	2998.6
17.5°	2712.3	2716.0	2745.3	2818.7	2877.4	2965.5	3027.9	3094.0	3097.7	3094.0	3027.9
20°	2697.6	2704.9	2749.0	2844.4	2910.5	3009.6	3090.3	3156.4	3160.1	3145.4	3057.3
22.5°	2738.0	2741.7	2796.7	2899.5	2961.9	3072.0	3174.7	3237.1	3240.8	3218.8	3101.3
25°	2877.4	2877.4	2925.2	3013.2	3068.3	3178.4	3288.5	3361.9	3361.9	3336.2	3200.4
27.5°	3204.1	3174.7	3163.7	3189.4	3207.8	3325.2	3442.7	3534.4	3530.7	3494.0	3328.9
30°	3835.4	3762.0	3644.5	3512.4	3446.3	3527.1	3637.2	3754.6	3751.0	3692.2	3486.7
32.5°	4896.1	4789.6	4510.7	4162.0	3879.4	3787.7	3890.4	4018.9	4022.6	3952.8	3740.0
35°	6382.5	6213.7	5714.5	5230.1	4584.1	4235.4	4264.8	4404.3	4448.3	4411.6	4165.7
37.5°	7813.9	7659.7	7182.6	6511.0	5633.8	4921.8	4797.0	4918.1	4969.5	4969.5	4708.9
40°	9256.3	9076.4	8654.4	7979.1	7054.2	5993.5	5545.7	5644.8	5699.8	5710.9	5369.5
42.5°	10412.4	10295.0	9972.0	9447.1	8581.0	7872.6	6624.7	6569.7	6621.1	6580.7	6136.6
45°	11212.5	11120.8	10896.9	10698.7	10276.6	9920.6	8067.1	7696.4	7729.5	7590.0	6999.1
47.5°	11377.7	11274.9	11227.2	11502.5	11803.4	11891.5	9839.8	9036.1	9003.0	8694.7	7894.6
50°	10658.3	10669.3	10845.5	11630.9	12886.1	13678.9	11895.2	10548.2	10427.1	9740.8	8727.8
52.5°	9105.8	9282.0	9726.1	10999.6	13216.4	14978.2	13950.5	12152.1	11964.9	10757.4	9351.7
55°	7123.9	7351.4	8081.8	9546.2	12526.4	15558.0	15682.8	13818.4	13392.6	11520.8	9836.2
57.5°	5296.1	5365.9	6217.3	7553.3	10893.2	14989.2	16571.0	15102.9	14556.1	12130.1	10317.0
60°	3299.5	3343.6	4242.8	5751.2	8250.6	12886.1	16571.0	15987.5	15466.3	12676.9	10757.4
62.5°	2051.7	2066.3	2404.0	3941.8	5608.1	9557.2	15884.7	16673.8	16255.4	13069.6	11135.4
65°	1181.8	1196.5	1354.3	2227.8	3648.2	5721.9	14130.3	16875.7	16688.5	13381.6	11429.1
67.5°	862.5	869.8	932.2	1251.5	2385.6	2939.8	10614.3	16064.5	16299.4	13535.8	11421.7
70°	748.7	759.7	840.5	976.3	1721.3	1805.7	5402.6	13873.4	14530.4	13315.5	11080.4
72.5°	576.2	590.9	712.0	917.6	1262.6	1299.3	1956.2	9872.9	10867.5	11939.2	10144.5
75°	396.4	411.1	532.2	756.1	1042.3	972.6	1075.4	4543.7	5732.9	8008.4	7722.1
77.5°	253.2	256.9	334.0	550.5	899.2	690.0	737.7	1482.8	2081.0	3622.5	3644.5
80°	168.8	172.5	205.5	356.0	616.6	638.6	455.1	686.3	752.4	1057.0	734.0
82.5°	102.8	102.8	139.5	223.9	374.4	528.5	297.3	359.7	385.4	407.4	190.9
85°	40.4	40.4	84.4	146.8	234.9	245.9	187.2	209.2	220.2	238.6	88.1
87.5°	11.0	11.0	47.7	80.7	102.8	113.8	113.8	102.8	110.1	135.8	44.0
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°	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9
2.5°	2980.2	2969.2	2954.5	2939.8	2925.2	2914.2	2903.1	2903.1	2895.8	2884.8	2877.4
5°	2972.9	2954.5	2921.5	2895.8	2855.4	2826.1	2804.0	2785.7	2774.7	2749.0	2745.3
7.5°	2961.9	2939.8	2892.1	2840.7	2774.7	2723.3	2671.9	2635.2	2598.5	2569.2	2561.8
10°	2943.5	2917.8	2848.1	2774.7	2682.9	2587.5	2466.4	2326.9	2198.5	2125.1	2103.0
12.5°	2943.5	2910.5	2818.7	2719.6	2587.5	2352.6	2044.3	1736.0	1497.4	1391.0	1361.7
15°	2961.9	2917.8	2796.7	2660.9	2415.0	1937.9	1438.7	1031.3	770.7	690.0	671.6
17.5°	2980.2	2917.8	2763.7	2580.2	2099.4	1405.7	818.5	543.2	458.8	440.4	440.4
20°	2987.6	2910.5	2719.6	2429.7	1677.3	873.5	488.1	407.4	374.4	363.4	363.4
22.5°	3016.9	2914.2	2686.6	2213.1	1218.5	513.8	385.4	341.3	308.3	297.3	297.3
25°	3090.3	2958.2	2693.9	1937.9	781.8	389.0	326.6	282.6	249.6	234.9	234.9
27.5°	3207.8	3057.3	2734.3	1618.6	491.8	334.0	275.3	227.6	201.9	187.2	187.2
30°	3339.9	3167.4	2752.7	1251.5	367.0	282.6	223.9	179.8	161.5	150.5	146.8
32.5°	3571.1	3358.2	2738.0	858.8	301.0	238.6	179.8	143.1	128.5	124.8	124.8
35°	3941.8	3692.2	2708.6	539.5	249.6	190.9	143.1	117.4	106.4	102.8	99.1
37.5°	4444.6	4180.4	2620.5	356.0	205.5	150.5	117.4	99.1	88.1	84.4	84.4
40°	5057.6	4738.2	2451.7	271.6	176.2	121.1	99.1	84.4	77.1	73.4	73.4
42.5°	5758.6	5358.5	2183.8	234.9	146.8	102.8	84.4	69.7	66.1	62.4	62.4
45°	6525.6	6008.1	1813.1	209.2	124.8	84.4	69.7	62.4	55.1	55.1	51.4
47.5°	7340.4	6661.4	1394.7	183.5	106.4	73.4	62.4	51.4	47.7	44.0	44.0
50°	8125.9	7245.0	979.9	157.8	88.1	62.4	51.4	44.0	40.4	36.7	36.7
52.5°	8680.1	7597.3	693.7	135.8	73.4	55.1	40.4	33.0	29.4	29.4	29.4
55°	9124.2	7817.6	484.5	113.8	62.4	47.7	33.0	25.7	25.7	22.0	22.0
57.5°	9542.6	7960.7	356.0	95.4	51.4	36.7	25.7	18.4	18.4	14.7	14.7
60°	9975.6	8037.8	271.6	77.1	44.0	29.4	18.4	14.7	11.0	11.0	11.0
62.5°	10412.4	8085.5	209.2	62.4	36.7	22.0	14.7	11.0	7.3	3.7	3.7
65°	10794.1	8100.2	161.5	47.7	29.4	14.7	11.0	3.7	0.0	0.0	0.0
67.5°	10907.9	7931.3	124.8	36.7	22.0	11.0	7.3	0.0	0.0	0.0	0.0
70°	10599.6	7483.6	95.4	29.4	18.4	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	9406.8	6276.1	73.4	18.4	14.7	7.3	3.7	0.0	0.0	0.0	0.0
75°	6731.2	3347.2	51.4	14.7	11.0	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	3097.7	1295.6	36.7	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	605.6	323.0	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	139.5	55.1	7.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.7	18.4	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)