

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: P285846

Luminaire Tested: **USSL-XL-C049-D-U-T4-AP-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C049-D-U-T4-AP-7030-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29298.8 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 217  
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

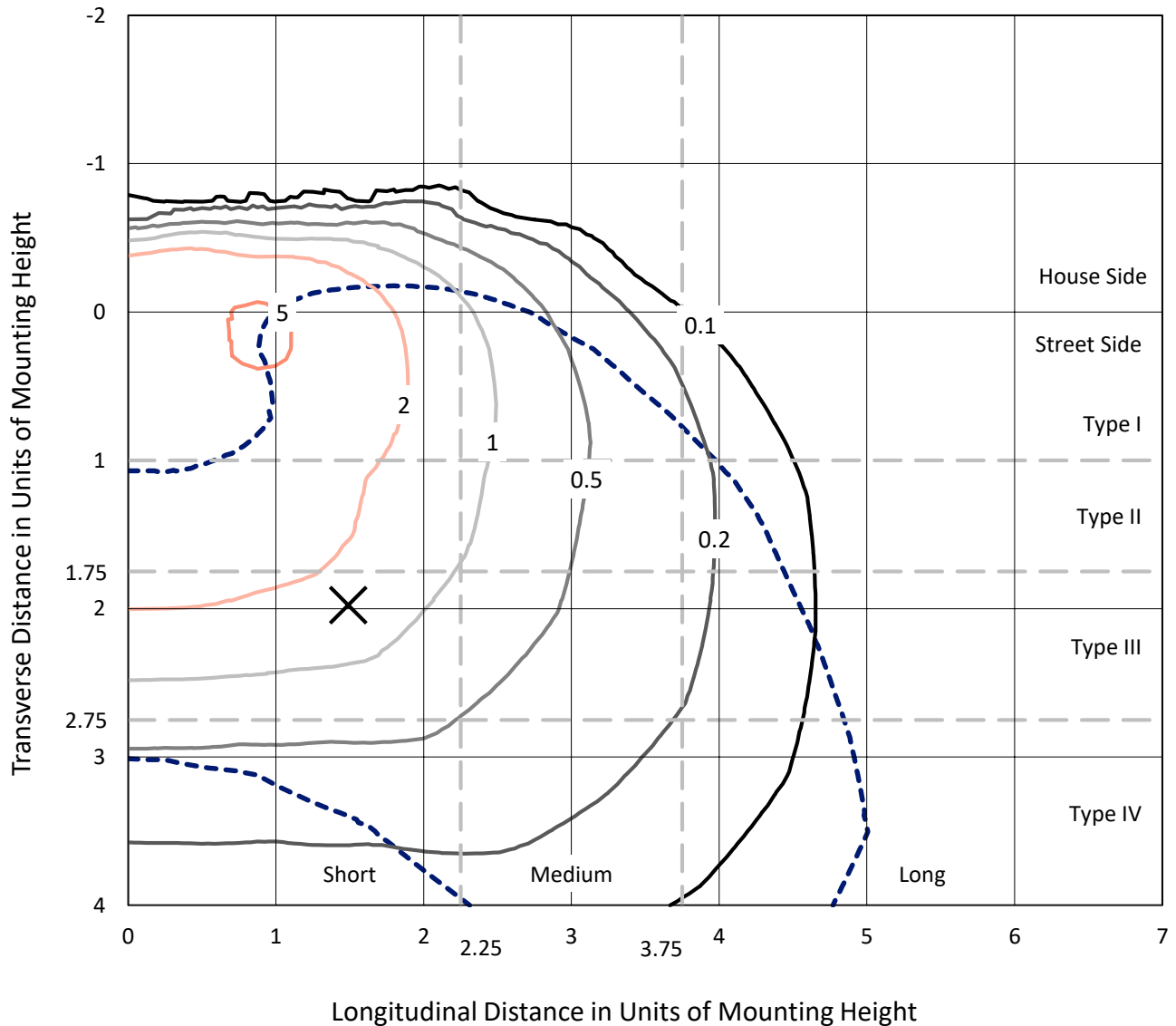


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

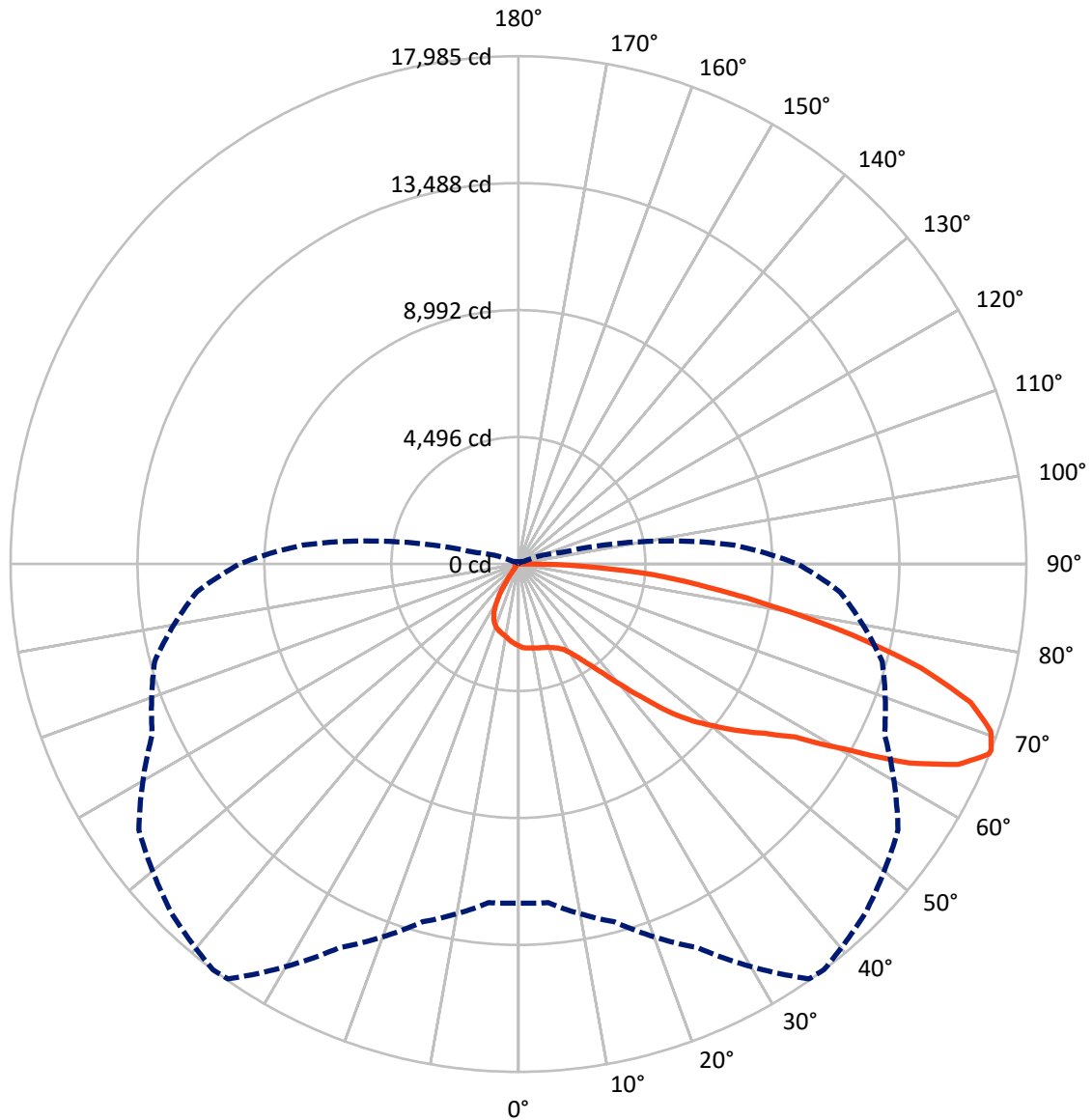


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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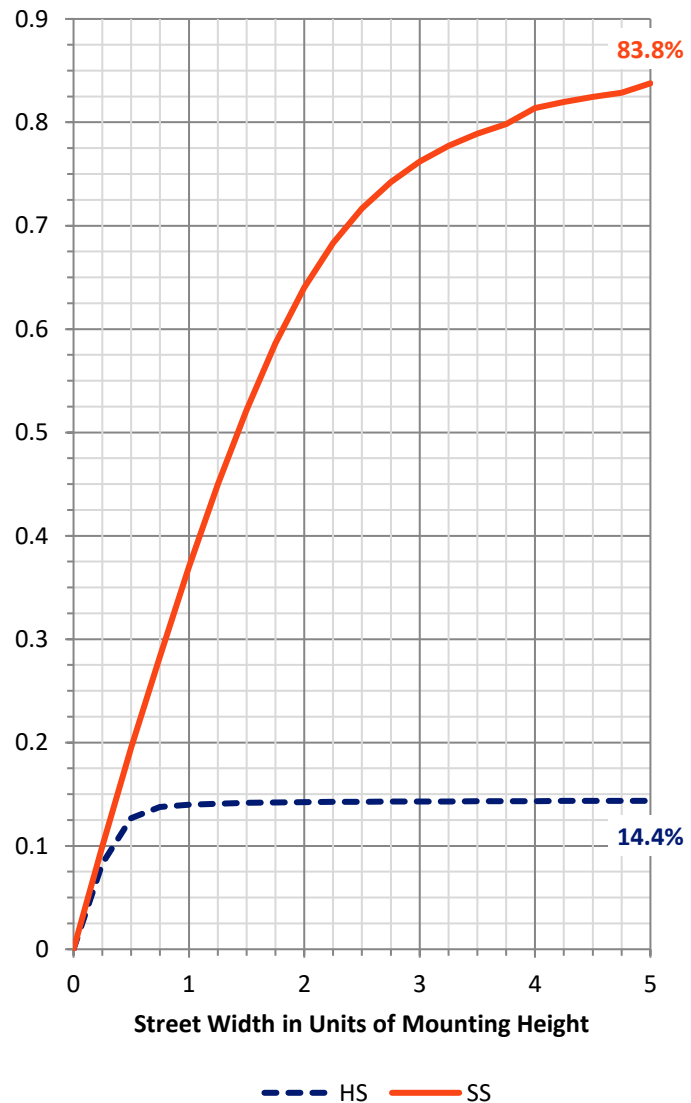
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4255.8	0.0	4255.8
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	25043.0	0.0	25043.0
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	29298.8	0.0	29298.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.9	0.9
10°-20°	812.9	2.8
20°-30°	1358.4	4.6
30°-40°	2206.5	7.5
40°-50°	3986.2	13.6
50°-60°	5937.7	20.3
60°-70°	7734.9	26.4
70°-80°	5694.8	19.4
80°-90°	1293.5	4.4
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°	29298.8	100.0
0°-180°	29298.8	100.0



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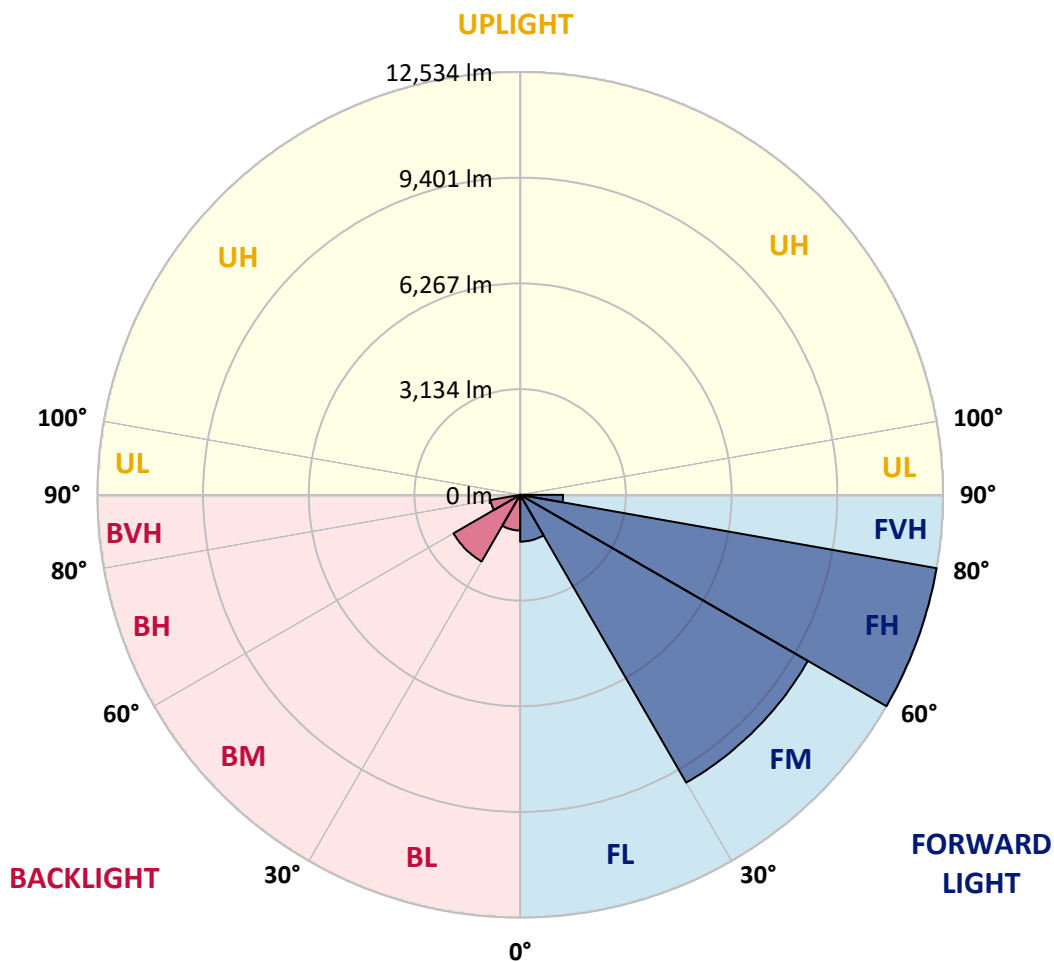
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.8	4.7			
FM	(30°-60°)	9849.7	33.6			
FH	(60°-80°)	12534.2	42.8			G5
FVH	(80°-90°)	1272.3	4.3			G5
BL	(0°-30°)	1058.4	3.6	B3/2500		
BM	(30°-60°)	2280.6	7.8	B2/2500		
BH	(60°-80°)	895.5	3.1	B2/1000		G2/1000
BVH	(80°-90°)	21.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5
2.5°	2962.5	2965.1	2965.1	2961.4	2966.2	2962.5	2953.9	2945.3	2935.4	2895.8	2887.1
5°	2976.2	2982.3	2982.3	2981.2	2988.6	2987.3	2979.9	2972.5	2961.4	2914.3	2898.2
7.5°	2983.6	2989.8	2991.0	2988.6	3003.4	3005.9	3000.9	3000.9	2992.3	2945.3	2921.7
10°	2982.3	2983.6	2987.3	2993.5	3017.0	3023.2	3029.4	3039.3	3039.3	3000.9	2973.7
12.5°	2950.2	2951.4	2963.8	2992.3	3039.3	3049.2	3067.8	3095.0	3108.6	3087.6	3064.1
15°	2927.9	2927.9	2945.3	2989.8	3061.5	3075.2	3114.7	3156.8	3196.4	3194.0	3189.0
17.5°	2947.7	2951.4	2978.6	3017.0	3090.0	3104.9	3156.8	3225.0	3288.0	3315.3	3320.2
20°	3007.1	3010.9	3040.5	3080.2	3143.2	3154.4	3205.1	3286.7	3380.9	3440.2	3474.9
22.5°	3095.0	3097.5	3121.0	3150.7	3212.6	3220.0	3269.5	3357.3	3476.2	3577.6	3638.2
25°	3177.9	3182.9	3203.9	3226.1	3295.4	3301.6	3362.3	3455.1	3593.7	3729.8	3841.2
27.5°	3262.1	3270.7	3296.7	3327.7	3427.8	3430.4	3486.0	3577.6	3742.2	3927.8	4093.7
30°	3448.9	3439.0	3461.3	3502.1	3643.2	3651.9	3707.5	3810.2	3963.7	4172.8	4412.9
32.5°	3767.0	3755.8	3754.6	3815.2	3945.2	3987.2	4047.9	4209.9	4401.8	4609.7	4860.9
35°	4395.6	4378.2	4295.4	4275.5	4352.3	4411.6	4533.0	4770.5	5093.6	5547.7	5833.6
37.5°	5440.0	5417.8	5235.8	5021.8	4911.6	4948.8	5050.2	5379.4	5921.4	6883.0	7166.3
40°	6472.1	6477.0	6256.8	5900.4	5660.3	5667.7	5626.9	6006.8	6813.7	8129.1	8244.2
42.5°	7458.4	7449.7	7180.0	6854.5	6547.6	6486.9	6334.7	6663.9	7649.0	9134.0	9084.5
45°	8333.3	8316.0	8015.3	7833.4	7496.8	7464.6	7220.8	7330.9	8491.7	9933.4	9763.8
47.5°	9168.6	9153.7	8797.4	8625.4	8354.3	8298.7	8069.8	8125.4	9273.8	10562.0	10310.8
50°	10038.5	10068.3	9549.8	9351.7	9103.1	9030.0	8914.9	8948.3	10080.6	11153.5	10777.4
52.5°	11095.4	10945.7	10396.2	10029.9	9830.7	9815.8	9668.5	9739.1	10968.0	11673.3	11193.2
55°	12222.8	12024.8	11484.0	11006.3	10559.6	10585.5	10367.7	10471.7	11764.9	12122.5	11521.1
57.5°	12992.5	12987.5	12844.0	12387.4	11609.0	11554.5	11151.1	11239.0	12462.8	12586.5	11767.3
60°	13728.8	13930.5	14085.2	13881.0	13503.5	13330.3	12201.7	12038.3	13100.2	13006.0	11908.4
62.5°	14223.8	14285.7	14868.5	15040.5	15549.2	15515.8	14301.8	13006.0	13643.4	13278.3	11954.2
65°	13768.4	13819.1	14703.9	15531.8	17042.8	17112.1	16606.0	14603.7	14071.6	13372.3	11860.2
67.5°	12356.4	12393.5	13433.1	15146.9	17873.2	17964.8	17374.4	16270.6	14288.1	13356.3	11539.7
68°	12012.4	12038.3	13117.4	14984.9	17935.0	17984.5	17412.8	16409.2	14305.5	13337.8	11435.7
70°	10536.0	10531.1	11550.8	14022.1	17734.6	17749.4	17191.3	16560.2	14237.4	13162.1	10772.4
72.5°	8146.4	8304.8	9155.0	11810.7	16629.5	16748.2	16457.5	16143.1	13947.9	12451.7	9184.7
75°	5796.4	5920.2	6793.9	9210.6	14355.0	14730.0	15245.9	15361.0	12895.9	10701.9	6766.6
77.5°	4044.2	4175.3	4992.0	6879.3	11604.0	12094.1	13183.0	13353.8	10846.7	8113.0	3452.6
80°	2587.6	2712.6	3462.5	5003.2	8761.5	9179.8	10370.2	10124.0	7590.8	4346.1	605.1
82.5°	1572.9	1636.0	2202.8	3421.7	6385.5	6774.0	7170.0	6079.8	3633.3	615.1	194.3
85°	893.5	938.0	1351.4	2210.2	4510.7	4735.8	4825.0	3034.4	756.1	165.9	111.4
87.5°	237.6	330.4	730.2	1362.5	2269.6	2211.4	2383.4	1086.5	136.1	71.8	53.2
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°	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5	2899.5
2.5°	2877.2	2874.7	2866.1	2862.4	2866.1	2862.4	2835.1	2837.6	2837.6	2824.0	2815.3
5°	2883.4	2877.2	2850.0	2845.0	2830.1	2806.6	2762.1	2752.2	2743.6	2721.3	2717.6
7.5°	2900.7	2892.0	2848.7	2828.9	2788.1	2746.0	2685.4	2649.4	2632.2	2604.9	2608.6
10°	2951.4	2932.8	2871.0	2832.6	2756.0	2686.6	2598.8	2544.3	2512.1	2471.3	2484.9
12.5°	3043.0	3014.6	2937.8	2871.0	2753.4	2650.7	2525.7	2425.5	2374.7	2327.8	2341.3
15°	3168.0	3137.1	3043.0	2941.5	2785.6	2635.9	2463.8	2305.5	2213.9	2153.3	2157.0
17.5°	3307.8	3280.6	3172.9	3038.1	2835.1	2626.0	2393.4	2180.4	2013.4	1926.8	1924.4
20°	3456.3	3440.2	3322.7	3140.8	2885.8	2603.6	2303.0	2020.8	1790.7	1644.6	1632.2
22.5°	3627.1	3619.7	3482.3	3242.2	2909.3	2553.0	2181.7	1822.8	1517.1	1319.2	1306.8
25°	3851.0	3839.9	3640.8	3312.8	2899.5	2467.6	2012.2	1585.2	1170.7	943.0	933.0
27.5°	4120.9	4065.1	3780.6	3348.6	2851.2	2332.6	1790.7	1232.6	787.1	580.4	575.4
30°	4424.0	4315.2	3903.1	3352.4	2762.1	2144.6	1465.2	796.9	457.9	326.7	324.2
32.5°	4817.6	4625.7	4035.5	3331.4	2626.0	1890.9	1047.0	456.6	230.2	175.7	175.7
35°	5592.2	5174.0	4205.0	3276.9	2436.6	1528.3	646.0	221.5	134.9	132.4	133.7
37.5°	6743.1	6061.3	4482.2	3189.0	2184.1	1101.3	331.6	123.8	123.8	128.7	129.9
40°	7759.1	6989.4	4881.9	3065.2	1848.8	696.7	158.3	116.4	123.8	125.0	127.5
42.5°	8563.5	7734.3	5304.0	2878.4	1455.2	371.3	132.4	112.6	115.1	113.8	118.8
45°	9206.9	8322.1	5629.3	2633.4	1027.1	190.6	137.4	108.9	100.3	100.3	102.7
47.5°	9708.2	8768.9	5833.6	2367.3	624.9	153.5	137.4	96.6	90.3	91.6	92.8
50°	10148.8	9103.1	5904.1	2039.4	314.4	155.9	132.4	91.6	80.4	81.7	84.2
52.5°	10465.5	9338.1	5850.9	1632.2	173.3	158.3	126.2	84.2	69.3	75.5	78.0
55°	10704.4	9449.5	5675.1	1160.8	157.2	155.9	122.5	75.5	61.9	74.3	78.0
57.5°	10839.3	9486.6	5376.9	756.1	172.0	137.4	112.6	69.3	58.2	73.0	78.0
60°	10894.9	9418.6	4946.2	443.0	175.7	121.3	105.1	64.3	53.2	60.6	63.1
62.5°	10836.7	9244.1	4312.6	279.7	160.9	115.1	100.3	60.6	44.5	43.3	42.1
65°	10605.4	8812.2	3265.8	224.0	149.8	115.1	94.0	53.2	34.7	26.0	23.5
67.5°	10052.2	7921.2	1847.6	221.5	146.1	112.6	85.4	48.2	27.2	13.6	11.1
68°	9885.2	7665.1	1556.8	225.2	149.8	112.6	84.2	45.8	26.0	11.1	8.7
70°	8866.7	6282.8	537.1	216.5	170.7	118.8	80.4	39.6	21.0	5.0	3.7
72.5°	6751.8	3859.7	237.6	174.5	188.1	123.8	80.4	38.4	17.3	1.3	0.0
75°	3925.3	950.4	203.0	117.5	157.2	147.2	92.8	44.5	16.1	0.0	0.0
77.5°	951.7	219.1	177.0	68.0	123.8	160.9	110.1	49.5	17.3	0.0	0.0
80°	226.5	170.7	172.0	43.3	99.0	143.5	95.3	53.2	24.8	0.0	0.0
82.5°	149.8	134.9	153.5	23.5	56.9	106.4	66.8	33.4	30.9	0.0	0.0
85°	101.4	123.8	87.9	13.6	22.3	35.9	27.2	5.0	6.1	0.0	0.0
87.5°	56.9	35.9	14.8	6.1	5.0	3.7	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)