

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: P285835

Luminaire Tested: **USSL-XL-C047-D-U-T4-BZ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C047-D-U-T4-BZ-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26572 lumens  
Efficiency: N/A  
Efficacy: 151.0 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): 176  
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

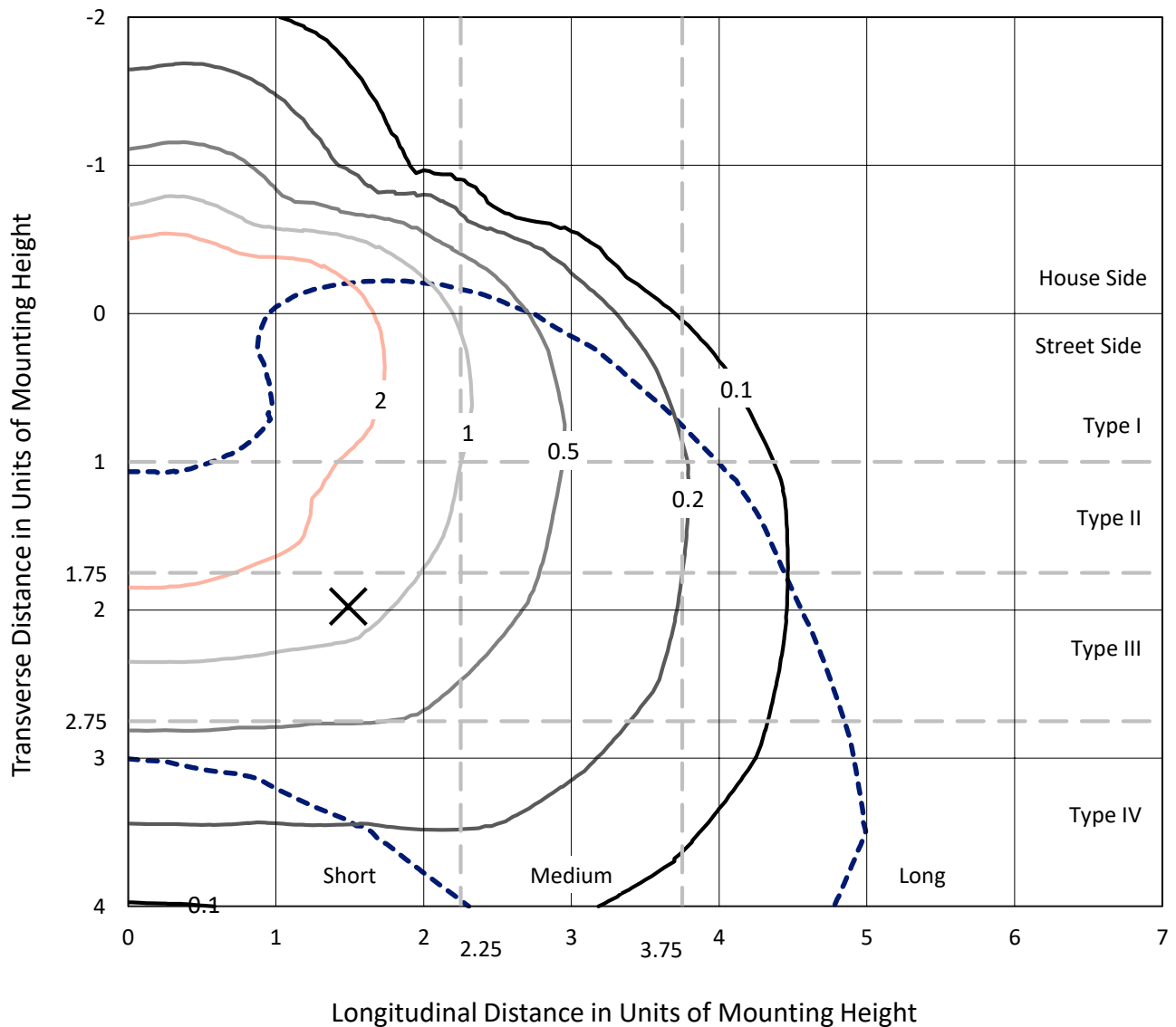


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

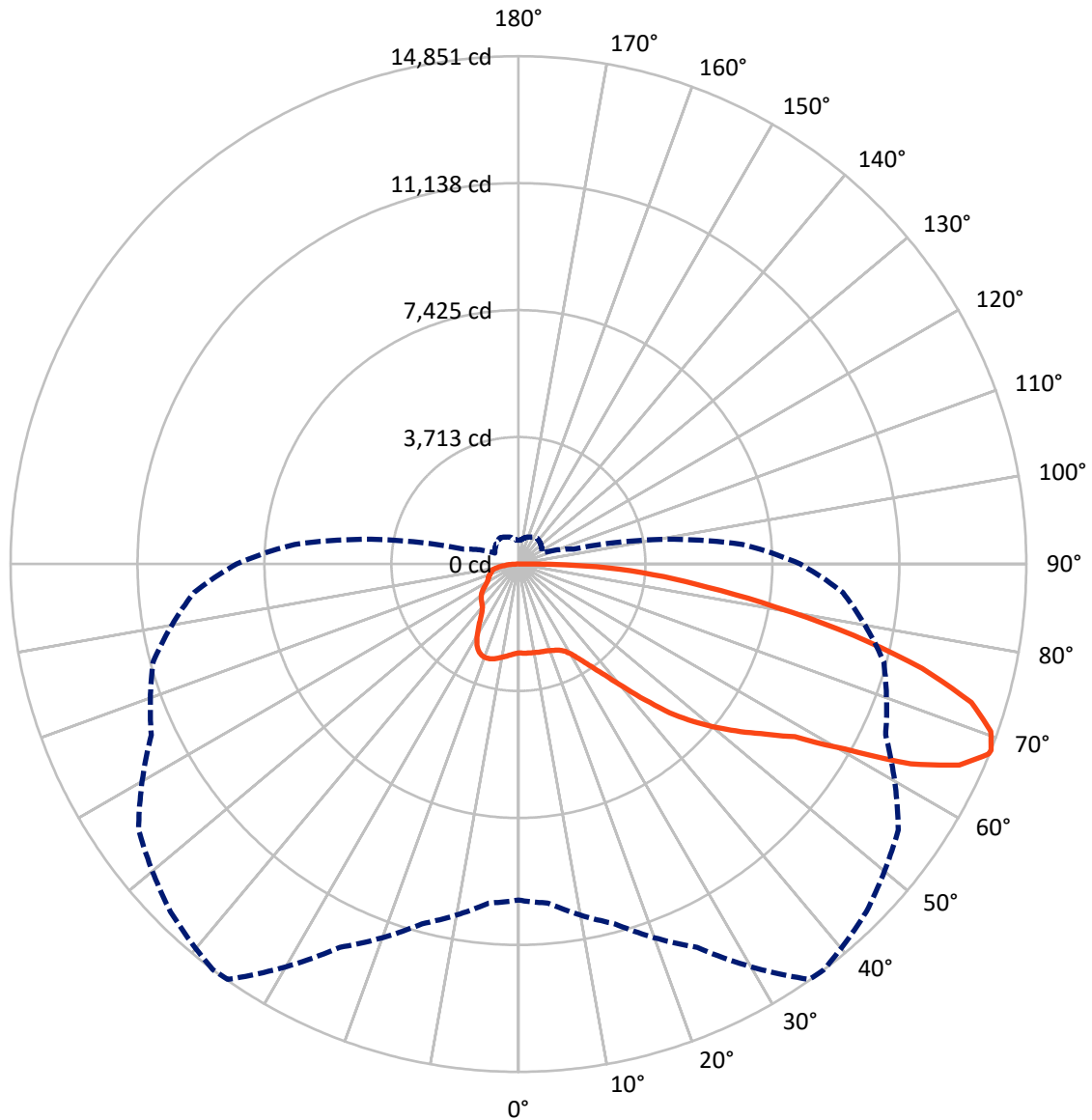


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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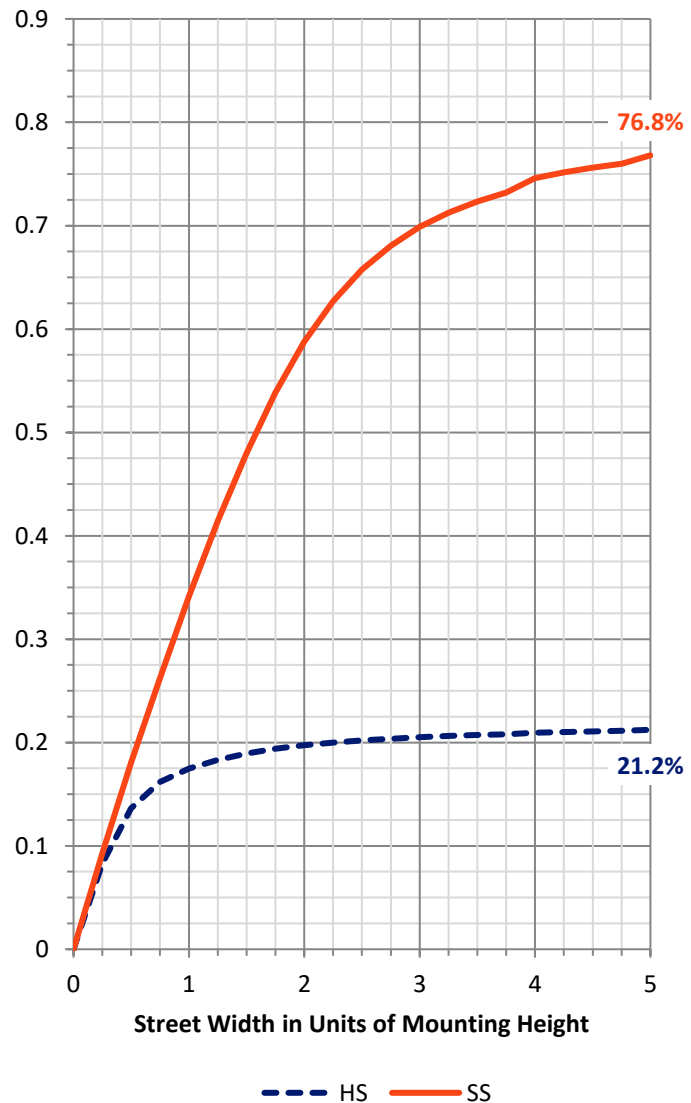
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5737.7	0.0	5737.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	20834.3	0.0	20834.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	26572.0	0.0	26572.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	0.9
10°-20°	784.3	3.0
20°-30°	1339.6	5.0
30°-40°	2134.3	8.0
40°-50°	3701.6	13.9
50°-60°	5365.6	20.2
60°-70°	6766.6	25.5
70°-80°	5014.0	18.9
80°-90°	1213.6	4.6
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°	26572.0	100.0
0°-180°	26572.0	100.0



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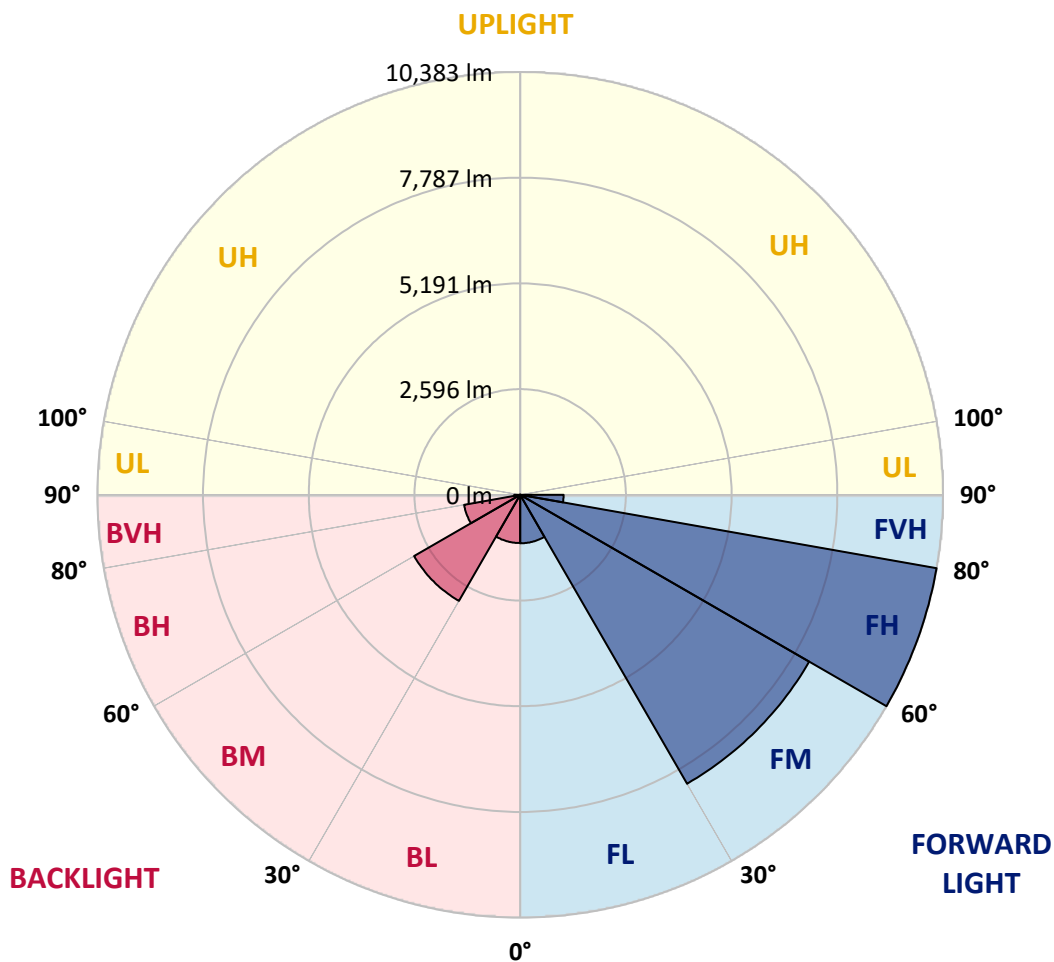
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.2	4.5			
FM	(30°-60°)	8193.6	30.8			
FH	(60°-80°)	10383.0	39.1			G4/12000
FVH	(80°-90°)	1066.5	4.0			G5
BL	(0°-30°)	1185.0	4.5	B3/2500		
BM	(30°-60°)	3007.8	11.3	B3/5000		
BH	(60°-80°)	1397.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	147.1	0.6			G2/225
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°	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3
2.5°	2597.3	2604.4	2606.5	2602.4	2606.5	2610.5	2601.4	2600.4	2596.3	2580.0	2582.0
5°	2598.3	2607.5	2608.5	2605.5	2612.6	2616.7	2612.6	2608.5	2604.4	2581.0	2586.1
7.5°	2598.3	2605.5	2607.5	2605.5	2615.6	2622.8	2622.8	2625.8	2625.8	2599.3	2603.4
10°	2589.2	2595.3	2598.3	2603.4	2620.7	2630.9	2637.0	2651.3	2659.4	2641.1	2642.1
12.5°	2547.4	2552.5	2562.7	2592.2	2632.9	2645.2	2662.5	2687.9	2708.3	2708.3	2710.3
15°	2514.8	2519.9	2539.3	2579.0	2641.1	2657.4	2691.0	2733.7	2771.4	2791.8	2808.1
17.5°	2523.0	2529.1	2557.6	2591.2	2653.3	2669.6	2717.5	2779.6	2841.7	2885.4	2918.0
20°	2548.4	2552.5	2585.1	2623.8	2690.0	2701.2	2748.0	2824.4	2910.9	2983.2	3036.1
22.5°	2620.7	2618.7	2645.2	2660.4	2728.7	2738.8	2792.8	2871.2	2983.2	3092.1	3169.5
25°	2680.8	2690.0	2711.3	2723.6	2779.6	2788.7	2855.9	2942.5	3071.8	3212.3	3336.5
27.5°	2747.0	2755.1	2776.5	2804.0	2882.4	2887.5	2934.3	3041.2	3184.8	3356.9	3555.4
30°	2896.6	2895.6	2917.0	2946.5	3052.4	3061.6	3105.4	3215.3	3348.7	3563.5	3802.8
32.5°	3155.3	3153.2	3156.3	3197.0	3312.1	3333.4	3389.4	3535.0	3702.0	3909.7	4175.4
35°	3685.7	3664.3	3623.6	3591.0	3656.2	3680.6	3802.8	3983.0	4281.3	4689.6	5018.5
37.5°	4562.3	4528.7	4391.3	4205.0	4129.6	4126.6	4212.1	4486.0	4950.3	5768.9	6066.2
40°	5402.3	5403.3	5217.0	4964.5	4729.3	4717.1	4668.2	5007.3	5674.2	6781.9	6921.4
42.5°	6198.5	6193.4	5976.6	5745.4	5464.4	5427.8	5285.2	5545.9	6397.1	7615.8	7643.3
45°	6916.3	6900.0	6666.9	6518.2	6276.9	6203.6	6014.2	6096.7	7074.1	8284.7	8188.0
47.5°	7609.7	7593.4	7302.2	7158.6	6946.9	6885.8	6685.2	6721.9	7721.7	8841.6	8628.9
50°	8325.4	8320.4	7898.8	7759.4	7534.3	7508.9	7387.7	7414.2	8397.7	9304.9	9039.2
52.5°	9173.6	9042.2	8568.8	8302.0	8142.2	8141.2	8005.7	8074.0	9145.1	9718.3	9324.3
55°	10083.8	9917.8	9433.2	9049.4	8774.5	8778.5	8567.8	8677.7	9801.8	10087.9	9597.1
57.5°	10733.4	10698.8	10554.2	10170.3	9602.2	9535.0	9211.2	9297.8	10378.0	10470.7	9793.6
60°	11339.2	11486.8	11583.5	11461.4	11175.3	10980.8	10082.8	9953.5	10886.1	10807.7	9896.5
62.5°	11721.0	11797.3	12248.4	12416.4	12865.4	12880.7	11806.5	10747.6	11318.8	11019.5	9942.3
65°	11300.5	11413.5	12160.8	12817.5	14098.4	14171.7	13718.6	12072.3	11664.0	11092.8	9855.7
67.5°	10127.6	10245.7	11143.7	12490.7	14780.5	14830.4	14360.0	13446.8	11836.0	11077.5	9602.2
68°	9827.2	9953.5	10890.2	12367.5	14827.4	14850.8	14385.5	13560.8	11847.2	11060.2	9519.7
70°	8584.1	8708.3	9657.2	11596.8	14642.1	14657.3	14224.6	13680.9	11789.2	10911.6	8977.1
72.5°	6743.2	6868.5	7616.8	9837.4	13711.5	13844.9	13623.9	13338.8	11543.8	10332.2	7697.2
75°	4778.2	4906.5	5685.4	7699.3	11820.8	12191.4	12632.2	12683.1	10625.5	8873.2	5734.2
77.5°	3369.1	3473.9	4148.0	5755.6	9540.1	10019.7	10938.0	11013.4	8898.7	6770.7	3024.9
80°	2187.0	2276.6	2880.4	4218.2	7211.6	7626.0	8635.0	8323.4	6323.8	3681.6	526.4
82.5°	1320.5	1387.7	1834.7	2918.0	5277.1	5553.0	5964.3	4997.1	2934.3	520.3	184.3
85°	757.5	803.3	1133.2	1874.4	3718.3	3953.5	4010.5	2508.7	551.8	143.6	103.9
87.5°	387.9	411.3	607.8	1151.5	2197.2	2298.0	2011.9	898.0	110.0	64.1	51.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3
2.5°	2571.9	2579.0	2584.1	2601.4	2619.7	2628.9	2619.7	2634.0	2639.1	2635.0	2628.9
5°	2578.0	2589.2	2597.3	2631.9	2652.3	2667.6	2657.4	2677.7	2684.9	2676.7	2676.7
7.5°	2595.3	2610.5	2623.8	2669.6	2693.0	2713.4	2707.3	2721.5	2727.6	2717.5	2723.6
10°	2641.1	2656.4	2673.7	2730.7	2746.0	2765.3	2754.1	2765.3	2767.3	2760.2	2765.3
12.5°	2720.5	2730.7	2764.3	2822.3	2824.4	2829.4	2806.0	2784.7	2775.5	2762.3	2771.4
15°	2822.3	2840.6	2886.5	2935.3	2922.1	2910.9	2852.9	2783.6	2739.9	2707.3	2705.2
17.5°	2935.3	2967.9	3024.9	3056.5	3026.0	2975.0	2877.3	2760.2	2654.3	2596.3	2578.0
20°	3051.4	3102.3	3165.4	3171.5	3119.6	3021.9	2873.2	2700.1	2525.0	2417.1	2390.6
22.5°	3192.9	3259.1	3316.1	3285.6	3181.7	3038.2	2835.6	2594.3	2354.0	2190.0	2165.6
25°	3380.3	3445.4	3455.6	3366.0	3205.1	3007.6	2749.0	2436.4	2132.0	1928.4	1909.0
27.5°	3606.3	3640.9	3574.7	3407.8	3176.6	2916.0	2601.4	2217.5	1884.6	1707.4	1677.9
30°	3856.8	3844.5	3662.3	3408.8	3093.2	2760.2	2377.4	1969.1	1689.1	1536.4	1507.9
32.5°	4174.4	4094.0	3750.9	3363.0	2955.7	2550.5	2113.7	1770.6	1554.7	1398.9	1371.5
35°	4805.7	4561.3	3871.0	3290.7	2773.5	2299.0	1882.6	1627.0	1439.7	1260.5	1235.0
37.5°	5765.8	5259.8	4087.9	3211.3	2570.8	2041.4	1705.4	1515.0	1349.1	1157.6	1117.9
40°	6607.8	6031.5	4434.1	3136.9	2364.2	1845.9	1603.6	1461.1	1299.2	1105.7	1065.0
42.5°	7254.3	6649.6	4830.1	3048.4	2148.3	1701.3	1560.8	1453.9	1293.1	1105.7	1068.0
45°	7776.7	7159.7	5182.4	2951.6	1939.6	1587.3	1522.1	1440.7	1280.8	1099.6	1064.0
47.5°	8189.0	7540.4	5460.4	2840.6	1722.7	1509.9	1482.4	1394.9	1249.3	1081.3	1045.6
50°	8546.4	7813.3	5616.1	2710.3	1530.3	1448.8	1426.4	1321.6	1186.1	1027.3	1003.9
52.5°	8795.8	8035.3	5675.2	2656.4	1392.8	1379.6	1350.1	1247.2	1117.9	963.2	936.7
55°	8983.2	8149.3	5626.3	2533.2	1255.4	1272.7	1259.5	1190.2	1070.1	923.5	897.0
57.5°	9078.9	8187.0	5486.8	2068.9	1125.1	1145.4	1154.6	1158.7	1063.0	934.7	910.2
60°	9112.5	8127.9	5182.4	1477.3	985.6	1026.3	1077.2	1092.5	1031.4	891.9	871.5
62.5°	9061.6	7974.2	4585.8	1021.2	879.7	952.0	1019.2	1015.1	949.9	828.8	801.3
65°	8863.0	7597.5	3487.2	823.7	844.0	918.4	992.7	942.8	879.7	767.7	753.4
67.5°	8382.5	6804.3	1955.9	760.6	832.8	899.0	946.9	886.8	816.6	710.7	704.6
68°	8239.9	6571.2	1669.8	756.5	830.8	892.9	934.7	872.6	804.3	701.5	697.4
70°	7409.1	5369.7	753.4	743.3	818.6	870.5	901.1	832.8	759.5	669.9	663.8
72.5°	5725.1	3325.3	506.0	706.6	788.1	836.9	856.3	792.1	731.0	631.3	623.1
75°	3393.5	914.3	479.6	643.5	736.1	804.3	824.7	760.6	688.3	573.2	560.0
77.5°	834.9	329.9	464.3	572.2	682.2	750.4	783.0	739.2	651.6	516.2	503.0
80°	253.5	262.7	441.9	494.8	613.9	669.9	689.3	689.3	602.7	363.5	382.8
82.5°	167.0	210.8	376.7	371.6	487.7	554.9	518.2	520.3	473.4	161.9	189.4
85°	104.9	172.1	254.5	243.3	310.5	340.1	368.6	378.8	332.9	46.8	3.1
87.5°	54.0	73.3	89.6	95.7	123.2	176.1	236.2	232.1	171.0	41.7	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)