

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: P285790

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)  
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-T3-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26120 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type III - Medium - 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

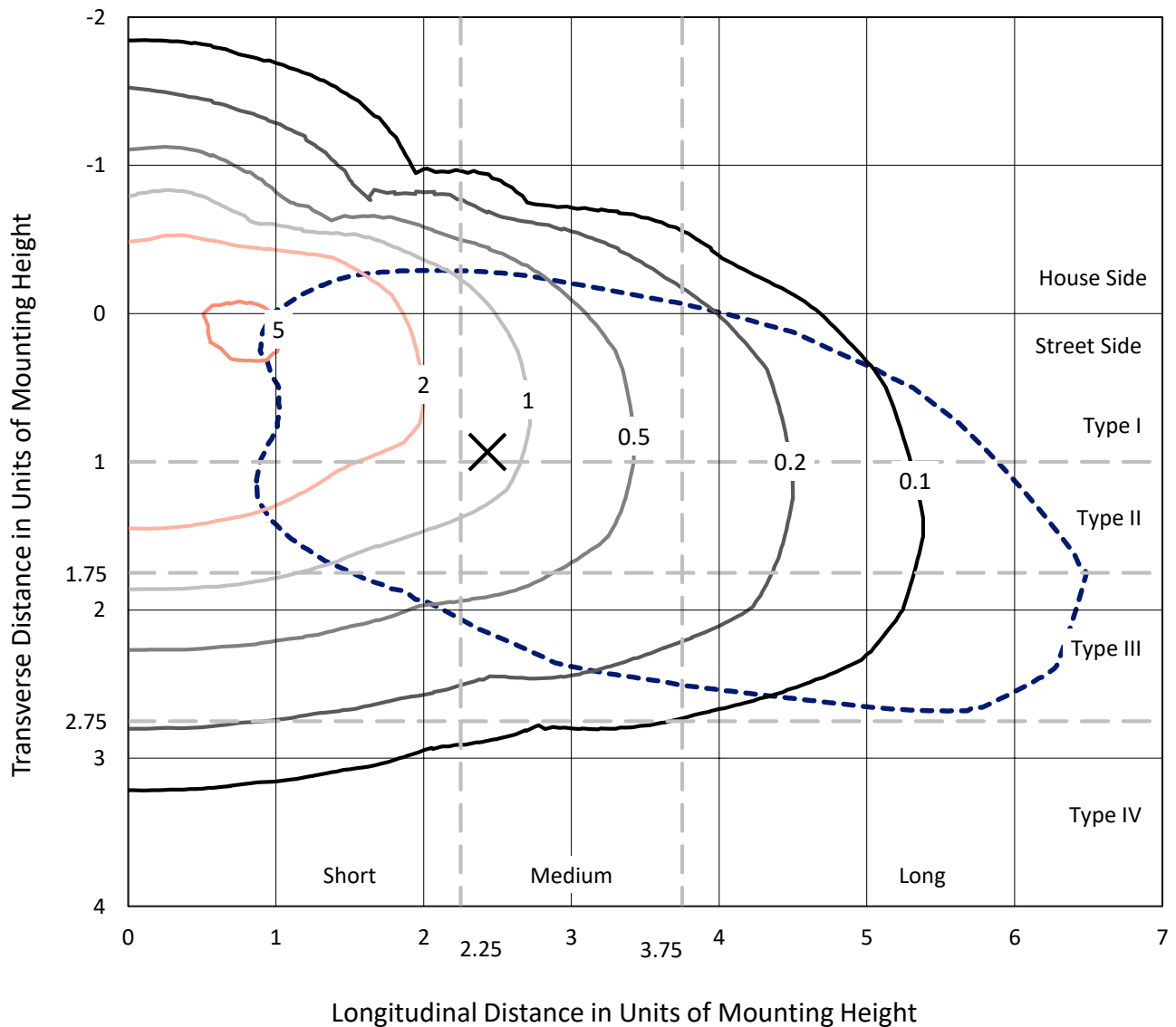


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

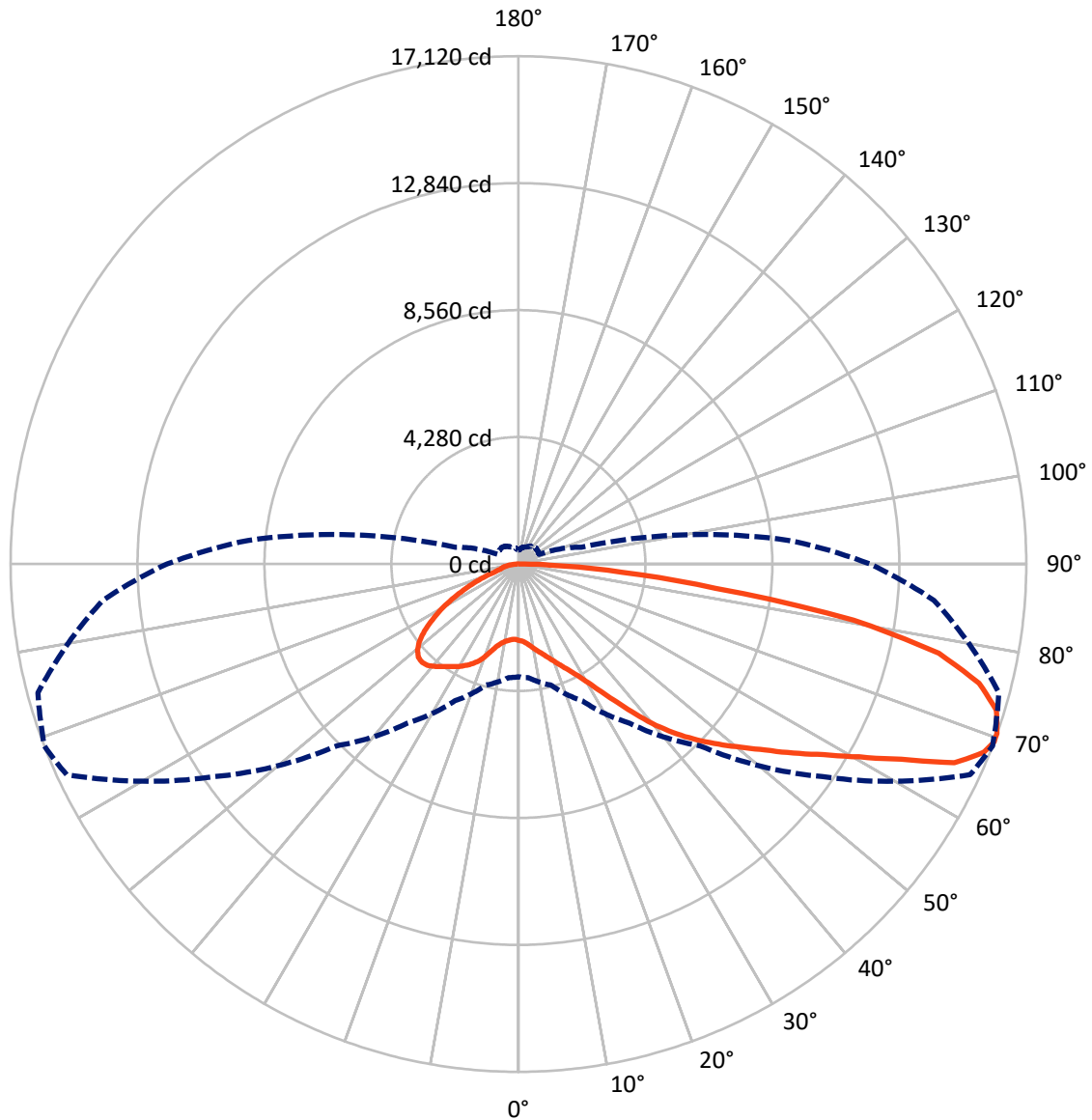


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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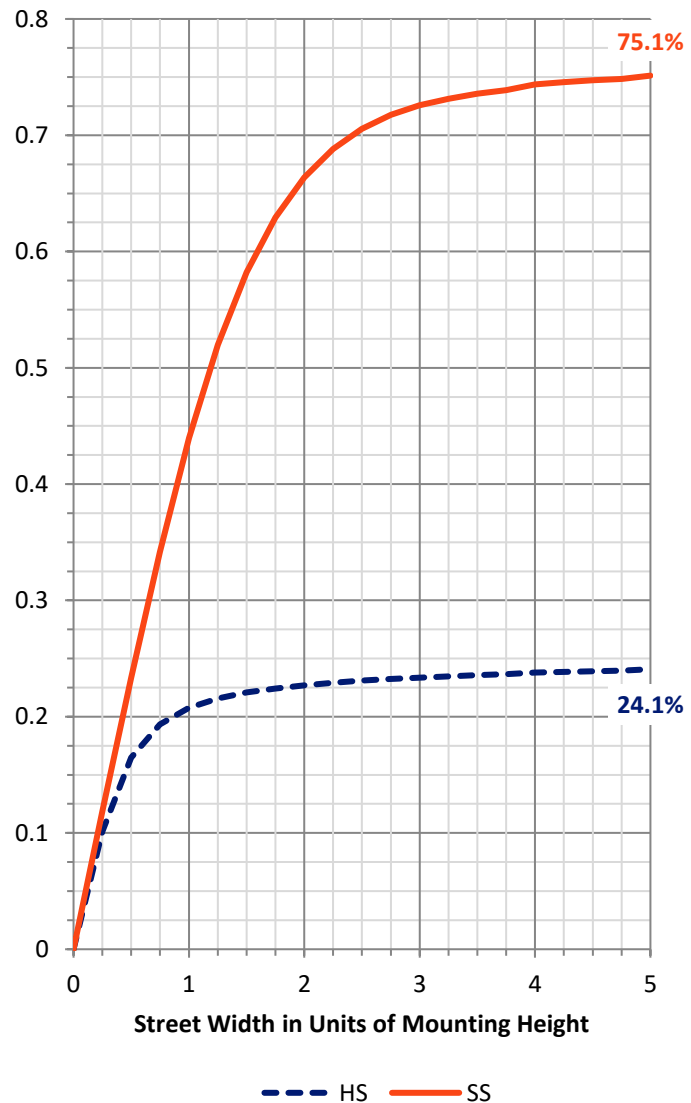
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6421.7	0.0	6421.7
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	19698.3	0.0	19698.3
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	26120.0	0.0	26120.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.9	1.0
10°-20°	827.3	3.2
20°-30°	1549.4	5.9
30°-40°	2632.7	10.1
40°-50°	4039.9	15.5
50°-60°	5278.4	20.2
60°-70°	6010.4	23.0
70°-80°	4537.8	17.4
80°-90°	990.3	3.8
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°	26120.0	100.0
0°-180°	26120.0	100.0



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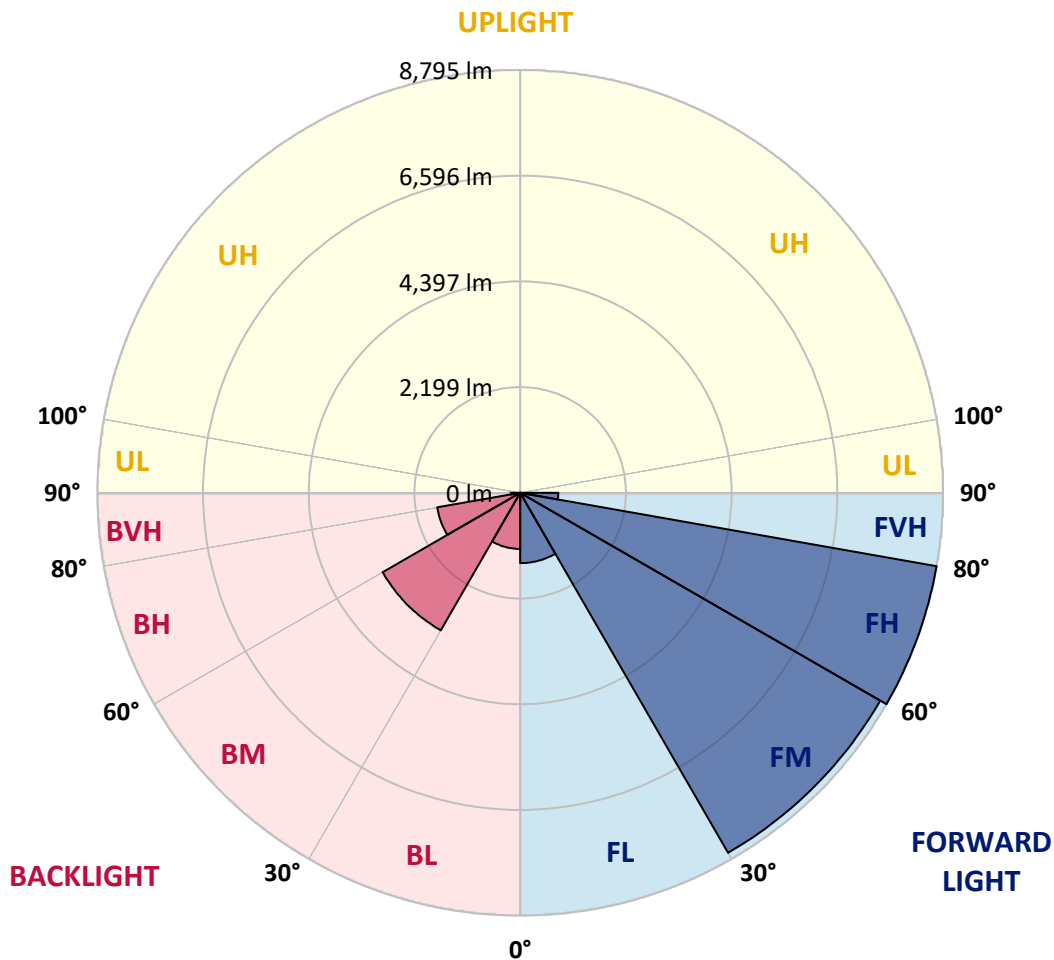
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1462.9	5.6			
FM	(30°-60°)	8646.7	33.1			
FH	(60°-80°)	8794.7	33.7			G4/12000
FVH	(80°-90°)	793.9	3.0			G5
BL	(0°-30°)	1167.6	4.5	B3/2500		
BM	(30°-60°)	3304.2	12.7	B3/5000		
BH	(60°-80°)	1753.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	196.4	0.8			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0
2.5°	2675.0	2683.0	2682.0	2678.0	2676.0	2665.0	2651.0	2633.0	2603.0	2589.0	2571.0
5°	2789.0	2795.0	2796.0	2789.0	2781.0	2764.0	2735.0	2707.0	2674.0	2654.0	2619.0
7.5°	2886.0	2891.0	2900.0	2894.0	2890.0	2876.0	2848.0	2815.0	2772.0	2744.0	2695.0
10°	2964.0	2968.0	2975.0	2985.0	3004.0	2992.0	2959.0	2936.0	2897.0	2854.0	2793.0
12.5°	3020.0	3017.0	3037.0	3055.0	3094.0	3107.0	3084.0	3067.0	3029.0	2985.0	2913.0
15°	3046.0	3045.0	3080.0	3125.0	3183.0	3204.0	3204.0	3185.0	3164.0	3130.0	3054.0
17.5°	3102.0	3106.0	3129.0	3187.0	3249.0	3298.0	3345.0	3347.0	3331.0	3308.0	3229.0
20°	3188.0	3195.0	3207.0	3253.0	3322.0	3408.0	3496.0	3528.0	3520.0	3511.0	3449.0
22.5°	3296.0	3299.0	3296.0	3336.0	3428.0	3544.0	3671.0	3724.0	3729.0	3730.0	3699.0
25°	3469.0	3456.0	3423.0	3459.0	3566.0	3700.0	3855.0	3943.0	3966.0	3987.0	4061.0
27.5°	3785.0	3755.0	3693.0	3681.0	3742.0	3889.0	4081.0	4228.0	4261.0	4319.0	4516.0
30°	4295.0	4255.0	4197.0	4020.0	3996.0	4122.0	4366.0	4576.0	4642.0	4818.0	5045.0
32.5°	4812.0	4786.0	4721.0	4551.0	4371.0	4418.0	4658.0	4986.0	5128.0	5484.0	5694.0
35°	5256.0	5243.0	5206.0	5123.0	4914.0	4782.0	4991.0	5447.0	5712.0	6267.9	6456.9
37.5°	5684.0	5678.0	5680.0	5567.0	5479.0	5289.0	5373.0	5984.9	6419.9	7088.9	7215.9
40°	6057.9	6060.9	6091.9	6039.9	6024.9	5906.9	5823.0	6558.9	7154.9	7900.9	7930.9
42.5°	6364.9	6367.9	6511.9	6433.9	6526.9	6500.9	6379.9	7094.9	7830.9	8557.9	8553.9
45°	6566.9	6571.9	6713.9	6776.9	6973.9	7059.9	6969.9	7644.9	8461.9	9165.9	9086.9
47.5°	6716.9	6712.9	6793.9	7047.9	7383.9	7553.9	7586.9	8269.9	9073.9	9728.9	9591.9
50°	6797.9	6806.9	6961.9	7300.9	7796.9	8033.9	8214.9	9007.9	9701.9	10271.9	10078.9
52.5°	6848.9	6893.9	7120.9	7523.9	8169.9	8540.9	8767.9	9825.9	10409.9	10835.9	10594.9
55°	6884.9	6966.9	7190.9	7640.9	8401.9	8951.9	9286.9	10669.9	11245.9	11474.9	11160.9
57.5°	6627.9	6706.9	7070.9	7658.9	8584.9	9289.9	9839.9	11560.9	12117.9	12262.9	11720.9
60°	6188.9	6235.9	6704.9	7517.9	8544.9	9596.9	10565.9	12617.9	13200.9	13211.9	12310.9
62.5°	5737.0	5756.0	6229.9	7149.9	8364.9	9697.9	11291.9	14026.9	14484.9	14344.9	12937.9
65°	5137.0	5158.0	5647.0	6544.9	7929.9	9585.9	11885.9	15511.9	16152.9	15778.9	13559.9
67.5°	4353.0	4399.0	4853.0	5685.0	7155.9	9152.9	12311.9	16534.9	16927.9	16605.9	13989.9
69°	3804.0	3847.0	4228.0	5090.0	6552.9	8664.9	12490.9	16804.9	17119.9	16768.9	14061.9
70°	3409.0	3442.0	3799.0	4645.0	6080.9	8247.9	12529.9	16877.9	17109.9	16774.9	14022.9
72.5°	2430.0	2458.0	2652.0	3250.0	4609.0	6908.9	12338.9	16679.9	16849.9	16366.9	13511.9
75°	1797.0	1819.0	1935.0	2147.0	2683.0	4889.0	11148.9	15856.9	16037.9	15474.9	12446.9
77.5°	1304.0	1322.0	1434.0	1641.0	1888.0	2302.0	7728.9	14310.9	14488.9	14036.9	10714.9
80°	890.0	909.0	1010.0	1185.0	1380.0	1532.0	3795.0	10473.9	11454.9	11234.9	7635.9
82.5°	167.0	205.0	434.0	615.0	776.0	830.0	1435.0	5759.0	6691.9	6825.9	3982.0
85°	111.0	120.0	265.0	258.0	253.0	371.0	562.0	2761.0	3493.0	3619.0	1719.0
87.5°	55.0	58.0	79.0	109.0	139.0	167.0	185.0	728.0	1052.0	1128.0	321.0
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°	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0	2577.0
2.5°	2564.0	2559.0	2544.0	2538.0	2534.0	2532.0	2508.0	2504.0	2492.0	2484.0	2477.0
5°	2602.0	2594.0	2559.0	2546.0	2526.0	2509.0	2469.0	2452.0	2440.0	2424.0	2417.0
7.5°	2669.0	2655.0	2602.0	2578.0	2543.0	2514.0	2459.0	2433.0	2410.0	2388.0	2384.0
10°	2760.0	2734.0	2661.0	2624.0	2573.0	2539.0	2475.0	2425.0	2391.0	2366.0	2365.0
12.5°	2879.0	2840.0	2752.0	2703.0	2640.0	2588.0	2515.0	2440.0	2384.0	2344.0	2342.0
15°	3021.0	2980.0	2891.0	2828.0	2754.0	2684.0	2567.0	2456.0	2363.0	2299.0	2291.0
17.5°	3195.0	3156.0	3075.0	3024.0	2920.0	2782.0	2616.0	2450.0	2317.0	2229.0	2216.0
20°	3415.0	3426.0	3350.0	3239.0	3066.0	2863.0	2640.0	2419.0	2226.0	2103.0	2085.0
22.5°	3722.0	3759.0	3632.0	3428.0	3177.0	2906.0	2630.0	2337.0	2101.0	1952.0	1937.0
25°	4098.0	4087.0	3858.0	3567.0	3234.0	2905.0	2574.0	2220.0	1942.0	1774.0	1763.0
27.5°	4491.0	4425.0	4071.0	3664.0	3244.0	2850.0	2464.0	2044.0	1759.0	1619.0	1586.0
30°	4992.0	4808.0	4289.0	3746.0	3211.0	2745.0	2265.0	1875.0	1654.0	1502.0	1480.0
32.5°	5571.0	5265.0	4534.0	3771.0	3138.0	2584.0	2049.0	1797.0	1585.0	1412.0	1387.0
35°	6243.9	5849.9	4818.0	3780.0	2999.0	2345.0	1932.0	1752.0	1539.0	1343.0	1310.0
37.5°	6947.9	6469.9	5168.0	3770.0	2837.0	2083.0	1850.0	1687.0	1487.0	1327.0	1308.0
40°	7583.9	7066.9	5563.0	3742.0	2615.0	1913.0	1761.0	1597.0	1442.0	1321.0	1306.0
42.5°	8166.9	7586.9	5940.9	3695.0	2338.0	1792.0	1663.0	1530.0	1385.0	1237.0	1207.0
45°	8671.9	8066.9	6220.9	3583.0	2028.0	1668.0	1545.0	1437.0	1300.0	1153.0	1123.0
47.5°	9104.9	8462.9	6440.9	3391.0	1778.0	1552.0	1411.0	1326.0	1206.0	1066.0	1036.0
50°	9546.9	8784.9	6569.9	3074.0	1569.0	1419.0	1278.0	1197.0	1094.0	992.0	974.0
52.5°	10020.9	9307.9	6757.9	2552.0	1376.0	1279.0	1137.0	1049.0	973.0	930.0	913.0
55°	10499.9	9771.9	6826.9	1930.0	1207.0	1169.0	1004.0	890.0	836.0	809.0	805.0
57.5°	10975.9	10167.9	6590.9	1374.0	1095.0	1042.0	862.0	754.0	690.0	709.0	738.0
60°	11462.9	10456.9	5987.9	1075.0	1007.0	890.0	742.0	662.0	634.0	613.0	614.0
62.5°	11912.9	10591.9	4962.0	913.0	922.0	796.0	700.0	622.0	594.0	558.0	547.0
65°	12211.9	10353.9	3873.0	845.0	845.0	772.0	698.0	623.0	585.0	522.0	511.0
67.5°	12125.9	9733.9	2866.0	784.0	796.0	782.0	715.0	621.0	574.0	514.0	510.0
69°	11848.9	9139.9	2201.0	766.0	788.0	791.0	735.0	631.0	586.0	495.0	473.0
70°	11570.9	8681.9	1822.0	751.0	786.0	797.0	751.0	643.0	577.0	465.0	451.0
72.5°	10625.9	7337.9	918.0	693.0	783.0	804.0	786.0	688.0	572.0	448.0	436.0
75°	9341.9	5644.0	589.0	644.0	758.0	812.0	814.0	730.0	574.0	438.0	423.0
77.5°	7484.9	3272.0	489.0	589.0	711.0	796.0	823.0	762.0	598.0	455.0	438.0
80°	3980.0	1294.0	393.0	503.0	651.0	748.0	798.0	751.0	592.0	380.0	369.0
82.5°	1762.0	402.0	288.0	395.0	512.0	654.0	678.0	661.0	518.0	230.0	263.0
85°	495.0	166.0	192.0	284.0	354.0	463.0	531.0	533.0	402.0	100.0	23.0
87.5°	51.0	38.0	56.0	109.0	204.0	321.0	388.0	372.0	269.0	85.0	2.0
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)