

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: P285785

Luminaire Tested: **USSL-XL-C047-D-U-T3-AP-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285785  
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-AP-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27182.2 lumens  
Efficiency: N/A  
Efficacy: 154.4 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

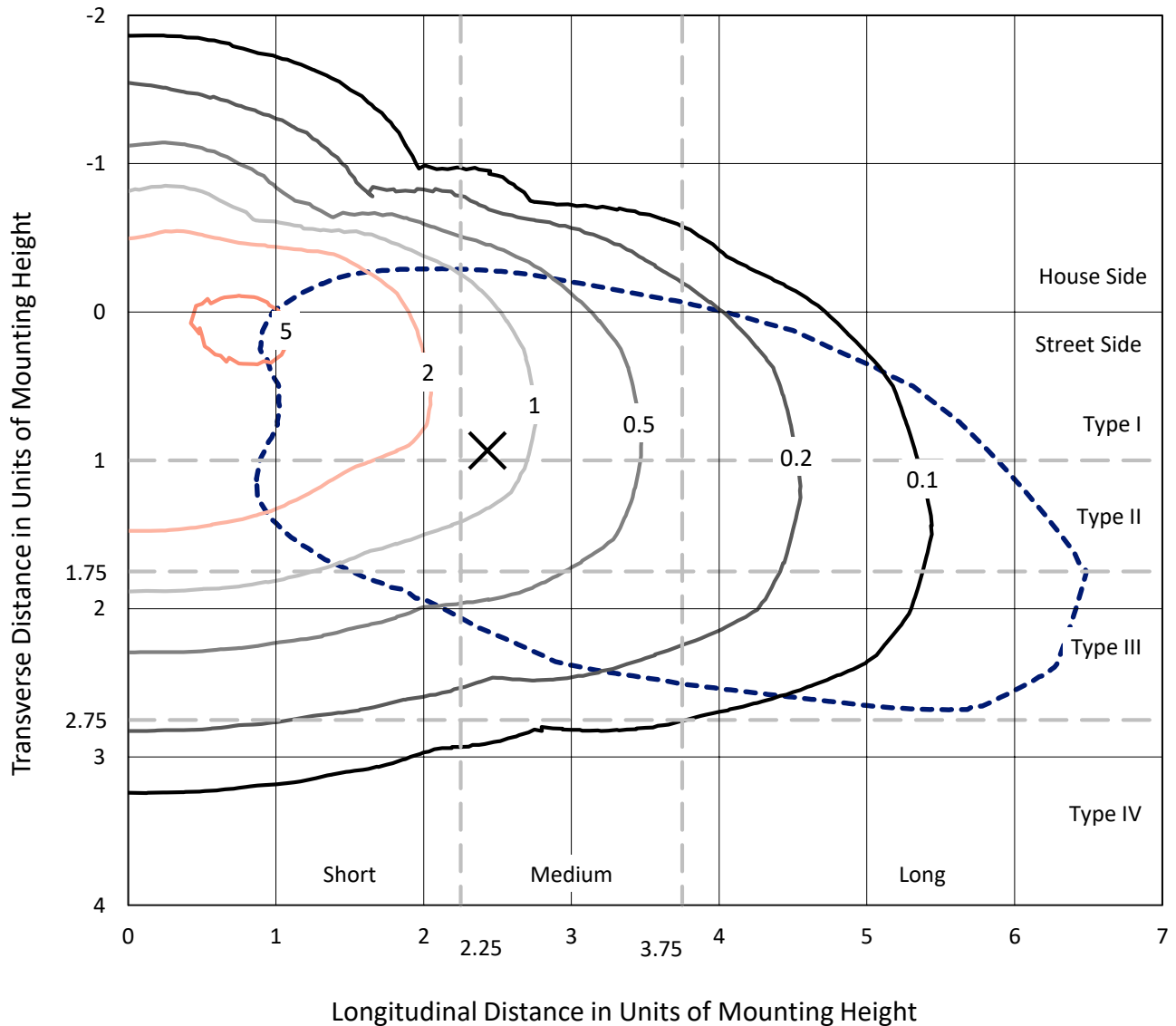


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### Iso-Footcandle Lines of Horizontal Illumination

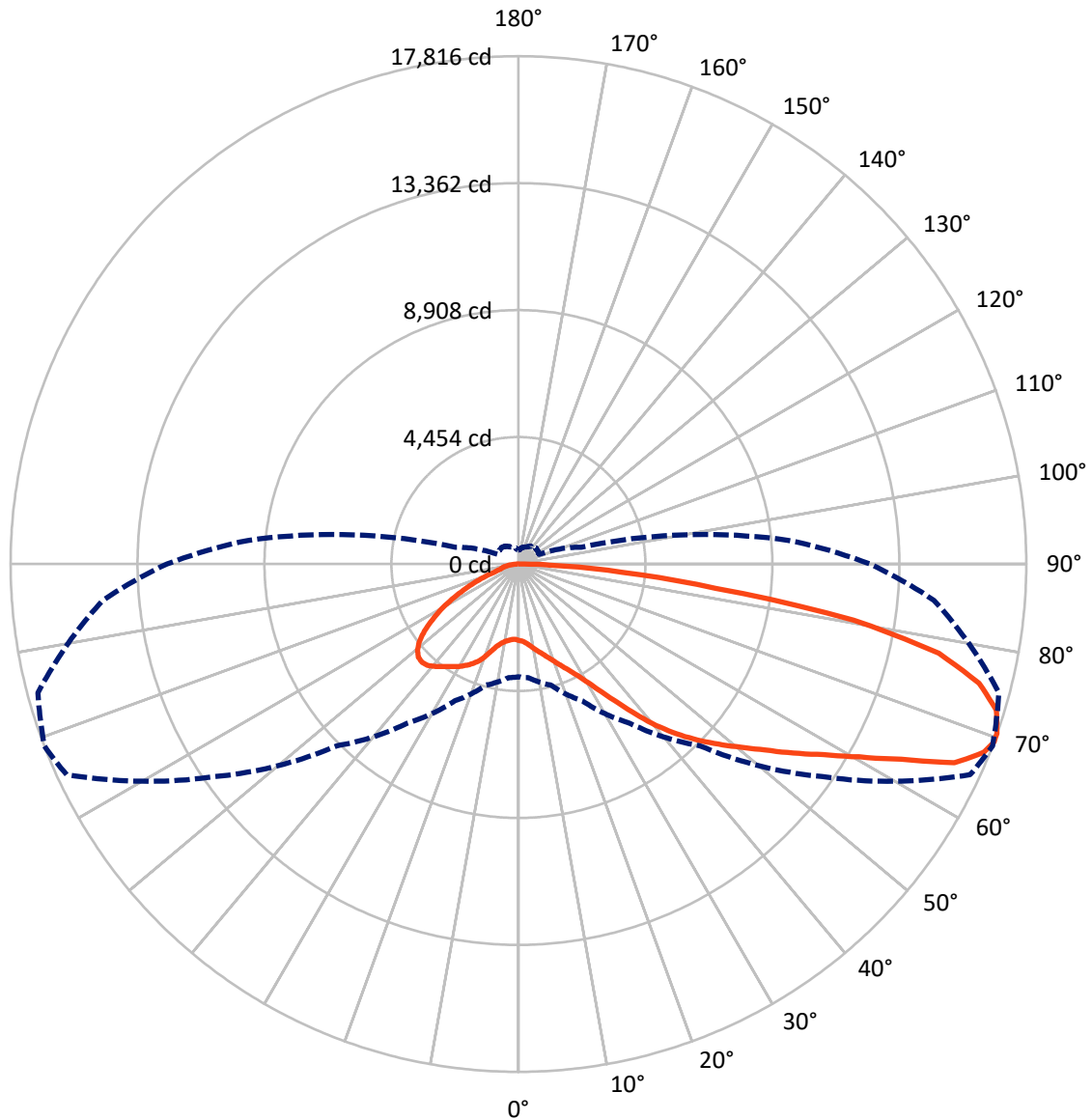
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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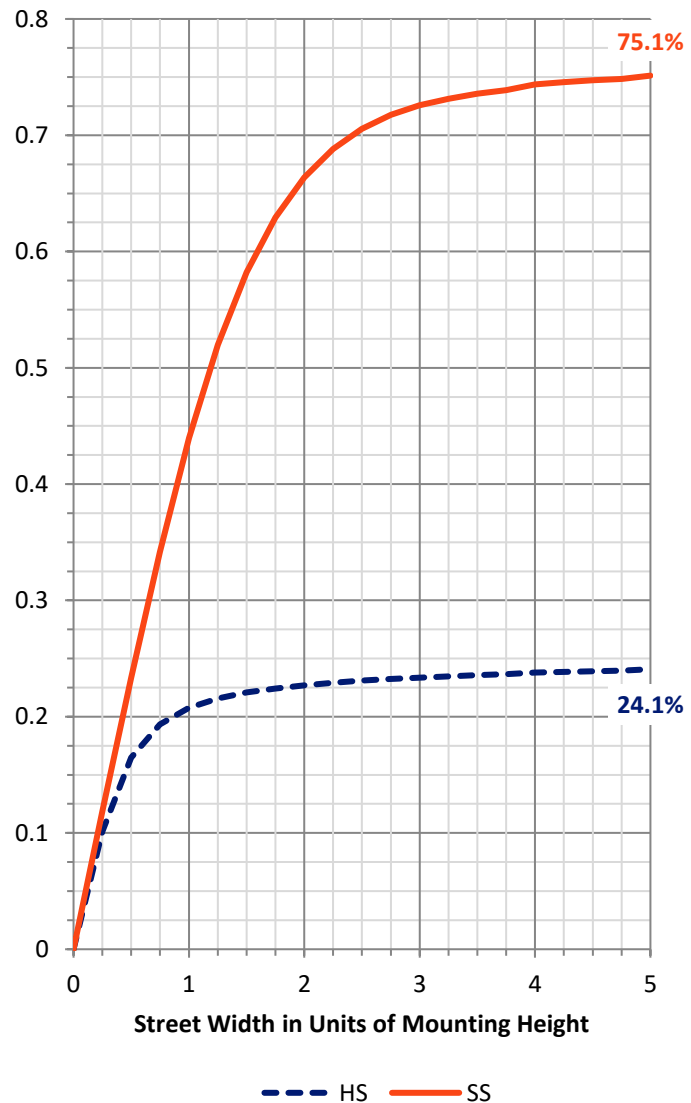
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6682.8	0.0	6682.8
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	20499.4	0.0	20499.4
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	27182.2	0.0	27182.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	1.0
10°-20°	860.9	3.2
20°-30°	1612.4	5.9
30°-40°	2739.7	10.1
40°-50°	4204.2	15.5
50°-60°	5493.0	20.2
60°-70°	6254.8	23.0
70°-80°	4722.3	17.4
80°-90°	1030.6	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°	27182.2	100.0
0°-180°	27182.2	100.0



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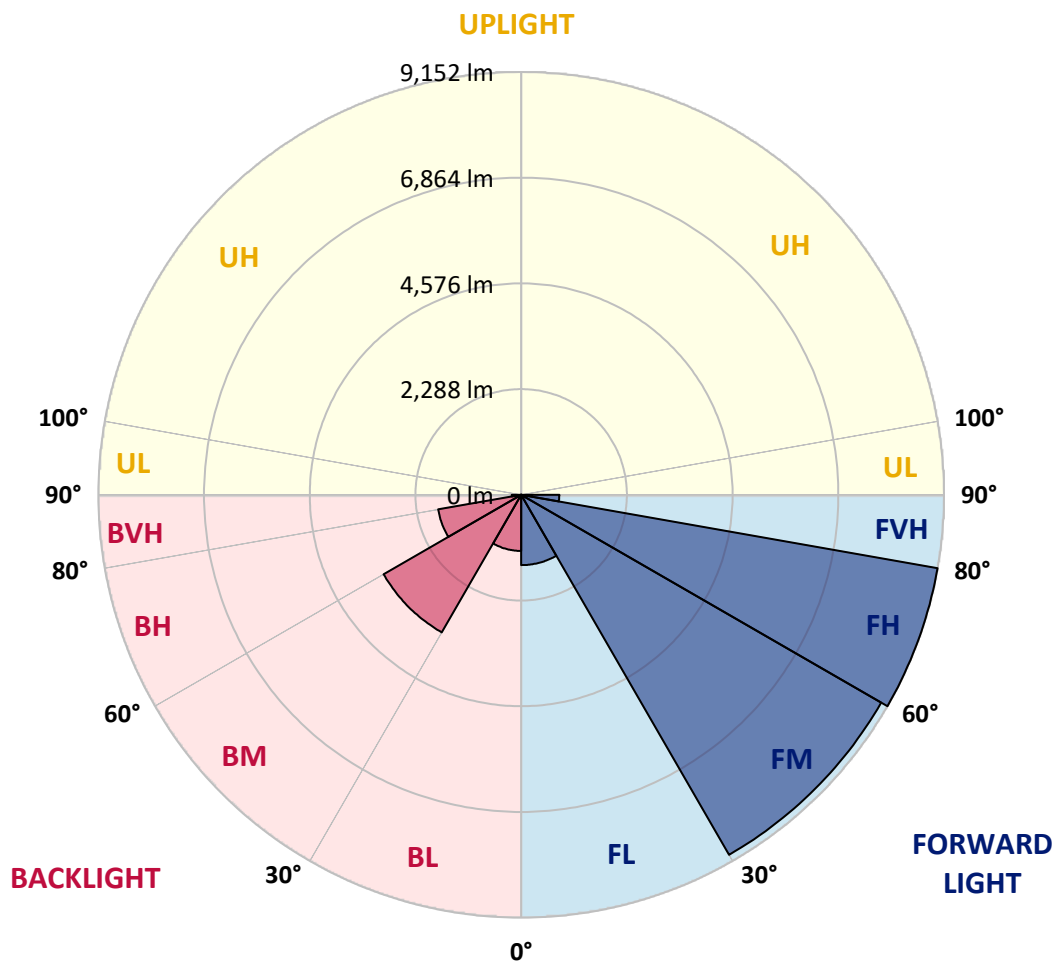
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.4	5.6			
FM	(30°-60°)	8998.4	33.1			
FH	(60°-80°)	9152.4	33.7			G4/12000
FVH	(80°-90°)	826.2	3.0			G5
BL	(0°-30°)	1215.1	4.5	B3/2500		
BM	(30°-60°)	3438.6	12.7	B3/5000		
BH	(60°-80°)	1824.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	204.3	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°	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8
2.5°	2783.7	2792.1	2791.0	2786.9	2784.8	2773.3	2758.8	2740.1	2708.8	2694.3	2675.5
5°	2902.4	2908.7	2909.6	2902.4	2894.1	2876.4	2846.1	2817.1	2782.8	2761.9	2725.5
7.5°	3003.3	3008.5	3017.9	3011.7	3007.5	2992.9	2963.8	2929.5	2884.7	2855.6	2804.6
10°	3084.5	3088.7	3096.0	3106.4	3126.2	3113.7	3079.3	3055.4	3014.8	2970.1	2906.6
12.5°	3142.8	3139.6	3160.5	3179.2	3219.8	3233.3	3209.4	3191.7	3152.1	3106.4	3031.4
15°	3169.8	3168.8	3205.2	3252.1	3312.4	3334.2	3334.2	3314.5	3292.7	3257.3	3178.2
17.5°	3228.1	3232.3	3256.2	3316.5	3381.1	3432.1	3481.0	3483.0	3466.4	3442.4	3360.3
20°	3317.6	3324.9	3337.4	3385.2	3457.1	3546.5	3638.1	3671.4	3663.1	3653.8	3589.2
22.5°	3430.0	3433.1	3430.0	3471.6	3567.4	3688.1	3820.3	3875.4	3880.6	3881.7	3849.3
25°	3610.0	3596.6	3562.2	3599.6	3711.0	3850.4	4011.7	4103.3	4127.3	4149.1	4226.1
27.5°	3938.9	3907.6	3843.2	3830.7	3894.2	4047.1	4246.9	4399.9	4434.2	4494.6	4699.6
30°	4469.6	4427.9	4367.6	4183.4	4158.5	4289.6	4543.5	4762.0	4830.7	5013.9	5250.1
32.5°	5007.6	4980.6	4913.0	4736.1	4548.7	4597.6	4847.3	5188.7	5336.5	5706.9	5925.5
35°	5469.7	5456.2	5417.7	5331.3	5113.8	4976.4	5193.9	5668.5	5944.2	6522.8	6719.6
37.5°	5915.1	5908.8	5911.0	5793.3	5701.7	5504.1	5591.5	6228.3	6681.0	7377.2	7509.4
40°	6304.3	6307.5	6339.7	6285.5	6269.9	6147.2	6059.8	6825.7	7445.9	8222.3	8253.4
42.5°	6623.7	6626.9	6776.8	6695.6	6792.4	6765.3	6639.4	7383.5	8149.4	8905.9	8901.8
45°	6834.0	6839.2	6987.0	7052.6	7257.6	7347.0	7253.4	7955.8	8806.1	9538.7	9456.4
47.5°	6990.1	6985.9	7070.3	7334.5	7684.2	7861.2	7895.5	8606.3	9443.0	10124.6	9982.0
50°	7074.4	7083.7	7245.1	7597.8	8114.0	8360.6	8549.0	9374.3	10096.5	10689.6	10488.8
52.5°	7127.5	7174.3	7410.5	7829.9	8502.2	8888.2	9124.5	10225.5	10833.2	11276.6	11025.7
55°	7164.9	7250.2	7483.3	7951.7	8743.6	9316.0	9664.6	11103.8	11703.2	11941.6	11614.8
57.5°	6897.5	6979.7	7358.5	7970.3	8934.0	9667.7	10240.1	12031.0	12610.7	12761.6	12197.5
60°	6440.6	6489.6	6977.6	7823.7	8892.5	9987.2	10995.6	13131.0	13737.7	13749.1	12811.5
62.5°	5970.2	5990.0	6483.3	7440.7	8705.1	10092.3	11751.1	14597.3	15073.9	14928.3	13464.0
65°	5345.8	5367.8	5876.6	6811.1	8252.4	9975.8	12369.2	16142.7	16809.7	16420.5	14111.3
67.5°	4530.0	4577.8	5050.3	5916.1	7447.0	9525.1	12812.6	17207.3	17616.3	17281.1	14558.8
69°	3958.6	4003.5	4399.9	5297.0	6819.4	9017.3	12998.8	17488.2	17816.1	17450.8	14633.7
70°	3547.6	3581.9	3953.4	4833.9	6328.2	8583.4	13039.4	17564.2	17805.7	17457.0	14593.1
72.5°	2528.8	2558.0	2759.9	3382.1	4796.4	7189.9	12840.7	17358.2	17535.1	17032.5	14061.4
75°	1870.1	1893.0	2013.7	2234.3	2792.1	5087.7	11602.3	16501.7	16690.0	16104.1	12953.0
77.5°	1357.0	1375.8	1492.3	1707.7	1964.7	2395.6	8043.3	14892.9	15078.0	14607.8	11150.7
80°	926.1	946.0	1051.1	1233.2	1436.1	1594.3	3949.3	10899.8	11920.7	11691.8	7946.5
82.5°	173.8	213.4	451.6	640.0	807.5	863.7	1493.3	5993.1	6964.1	7103.6	4143.9
85°	115.5	124.9	275.8	268.5	263.3	386.1	584.9	2873.3	3635.0	3766.1	1788.9
87.5°	57.2	60.3	82.2	113.4	144.7	173.8	192.5	757.6	1094.8	1173.8	334.1
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°	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8
2.5°	2668.2	2663.0	2647.4	2641.2	2637.0	2634.9	2610.0	2605.8	2593.4	2585.0	2577.7
5°	2707.8	2699.5	2663.0	2649.5	2628.7	2611.0	2569.4	2551.7	2539.2	2522.6	2515.2
7.5°	2777.5	2762.9	2707.8	2682.8	2646.4	2616.3	2559.0	2531.9	2507.9	2485.0	2480.9
10°	2872.2	2845.2	2769.2	2730.7	2677.6	2642.2	2575.7	2523.6	2488.2	2462.1	2461.2
12.5°	2996.0	2955.4	2863.8	2812.9	2747.4	2693.2	2617.2	2539.2	2480.9	2439.3	2437.2
15°	3143.9	3101.2	3008.5	2943.0	2866.0	2793.2	2671.4	2555.8	2459.1	2392.5	2384.1
17.5°	3324.9	3284.3	3200.1	3146.9	3038.7	2895.1	2722.4	2549.6	2411.2	2319.6	2306.1
20°	3553.8	3565.3	3486.2	3370.7	3190.6	2979.4	2747.4	2517.4	2316.5	2188.5	2169.7
22.5°	3873.3	3911.9	3779.7	3567.4	3306.1	3024.1	2737.0	2432.0	2186.5	2031.4	2015.7
25°	4264.6	4253.2	4014.9	3712.0	3365.5	3023.2	2678.7	2310.3	2020.9	1846.1	1834.7
27.5°	4673.6	4604.9	4236.5	3813.0	3375.9	2965.9	2564.2	2127.1	1830.6	1684.8	1650.5
30°	5195.0	5003.5	4463.3	3898.3	3341.5	2856.6	2357.1	1951.3	1721.3	1563.0	1540.1
32.5°	5797.5	5479.0	4718.4	3924.3	3265.6	2689.1	2132.3	1870.1	1649.4	1469.4	1443.4
35°	6497.8	6087.9	5013.9	3933.7	3121.0	2440.3	2010.5	1823.2	1601.6	1397.6	1363.2
37.5°	7230.5	6733.0	5378.1	3923.3	2952.4	2167.7	1925.2	1755.6	1547.5	1380.9	1361.2
40°	7892.3	7354.3	5789.2	3894.2	2721.3	1990.8	1832.6	1661.9	1500.6	1374.7	1359.1
42.5°	8499.0	7895.5	6182.5	3845.2	2433.1	1864.9	1730.6	1592.2	1441.4	1287.2	1256.1
45°	9024.6	8394.9	6474.0	3728.6	2110.5	1735.8	1607.8	1495.4	1352.9	1199.9	1168.6
47.5°	9475.2	8807.1	6702.9	3528.8	1850.3	1615.1	1468.4	1379.9	1255.0	1109.3	1078.1
50°	9935.2	9142.2	6837.1	3199.0	1632.8	1476.7	1330.0	1245.7	1138.4	1032.3	1013.6
52.5°	10428.5	9686.4	7032.8	2655.8	1431.9	1331.0	1183.3	1091.7	1012.5	967.8	950.1
55°	10926.9	10169.3	7104.6	2008.5	1256.1	1216.6	1044.8	926.1	870.0	841.9	837.7
57.5°	11422.2	10581.4	6858.9	1429.9	1139.5	1084.4	897.1	784.6	718.1	737.8	768.0
60°	11929.1	10882.1	6231.5	1118.7	1047.9	926.1	772.1	688.9	659.8	638.0	639.0
62.5°	12397.3	11022.6	5163.7	950.1	959.5	828.3	728.5	647.3	618.1	580.7	569.3
65°	12708.5	10774.9	4030.5	879.4	879.4	803.4	726.3	648.3	608.8	543.2	531.8
67.5°	12619.0	10129.8	2982.6	815.9	828.3	813.8	744.0	646.2	597.4	534.9	530.7
69°	12330.8	9511.6	2290.4	797.2	820.0	823.1	764.9	656.6	609.9	515.1	492.2
70°	12041.4	9035.0	1896.1	781.6	817.9	829.4	781.6	669.1	600.4	484.0	469.3
72.5°	11058.0	7636.4	955.3	721.2	814.9	836.7	817.9	716.0	595.2	466.3	453.7
75°	9721.8	5873.4	612.9	670.2	788.8	845.1	847.1	759.6	597.4	455.8	440.2
77.5°	7789.3	3405.0	508.9	612.9	739.9	828.3	856.5	793.0	622.3	473.5	455.8
80°	4141.8	1346.6	409.0	523.5	677.5	778.4	830.4	781.6	616.1	395.4	384.0
82.5°	1833.6	418.3	299.7	411.0	532.8	680.6	705.6	687.9	539.1	239.3	273.7
85°	515.1	172.8	199.8	295.5	368.4	481.8	552.6	554.6	418.3	104.1	24.0
87.5°	53.1	39.5	58.3	113.4	212.3	334.1	403.8	387.1	279.9	88.5	2.1
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)