

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: P285810

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)  
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-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25168.4 lumens  
Efficiency: N/A  
Efficacy: 143.0 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

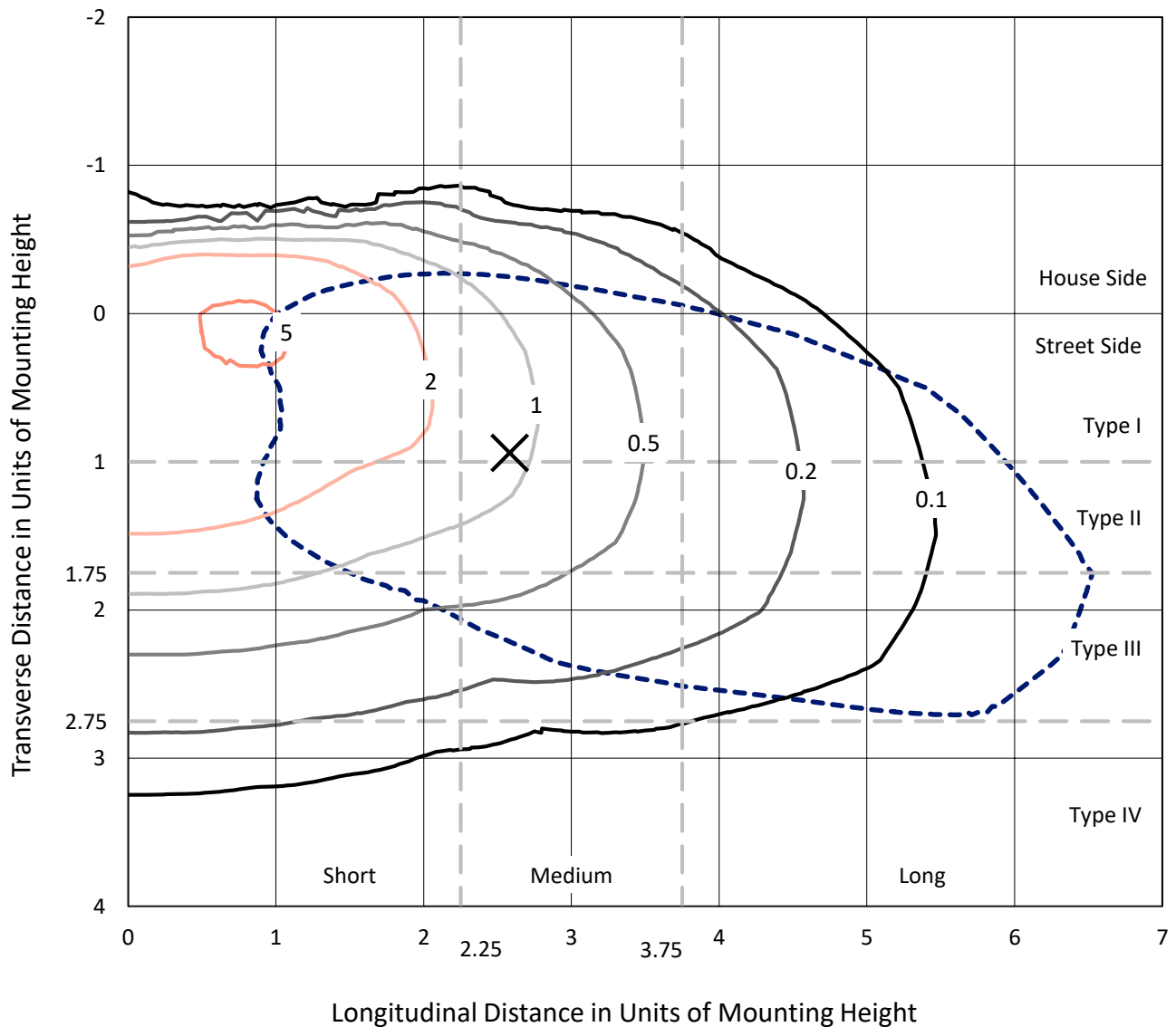
Input Watts (W): 176  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

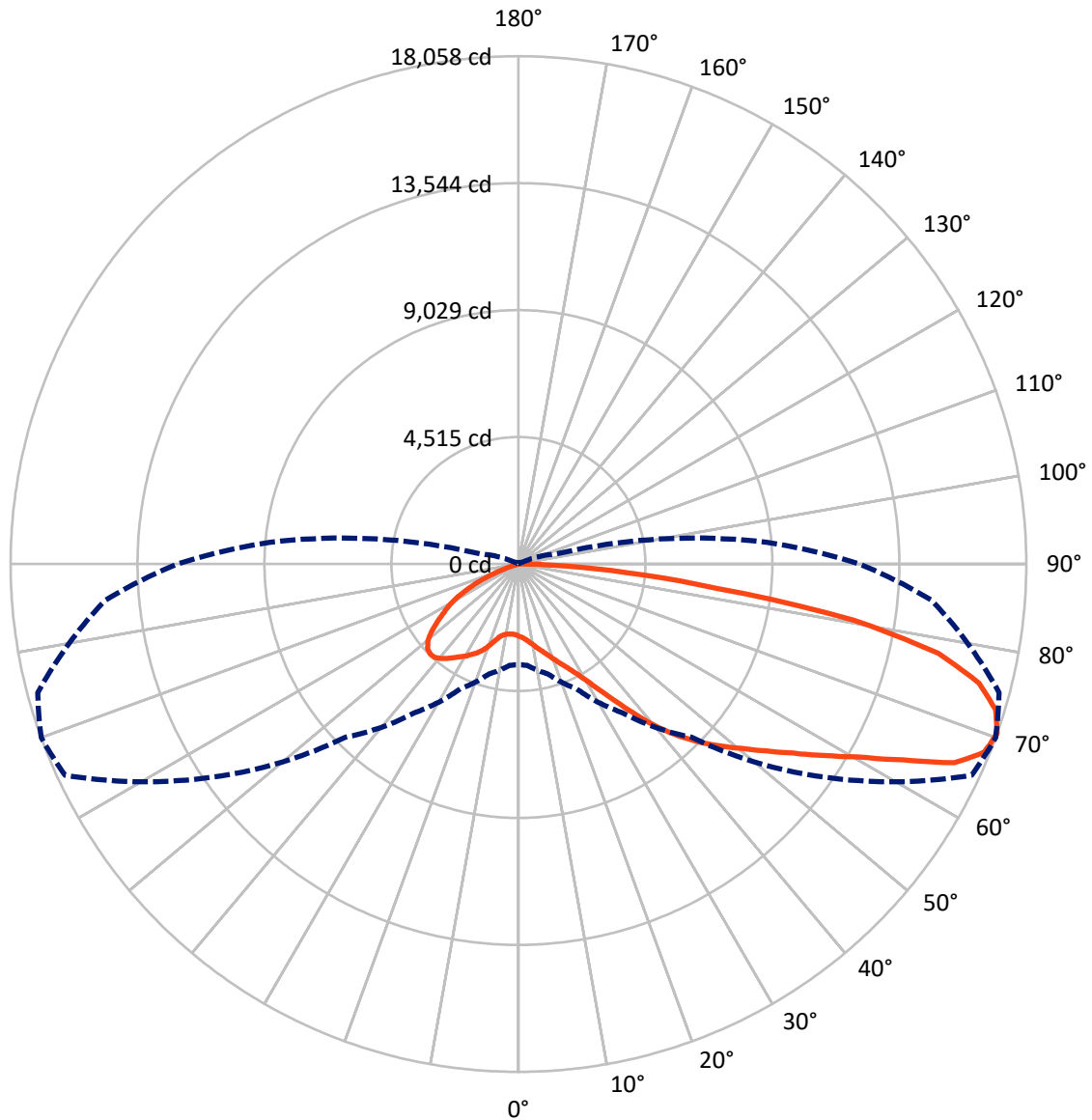
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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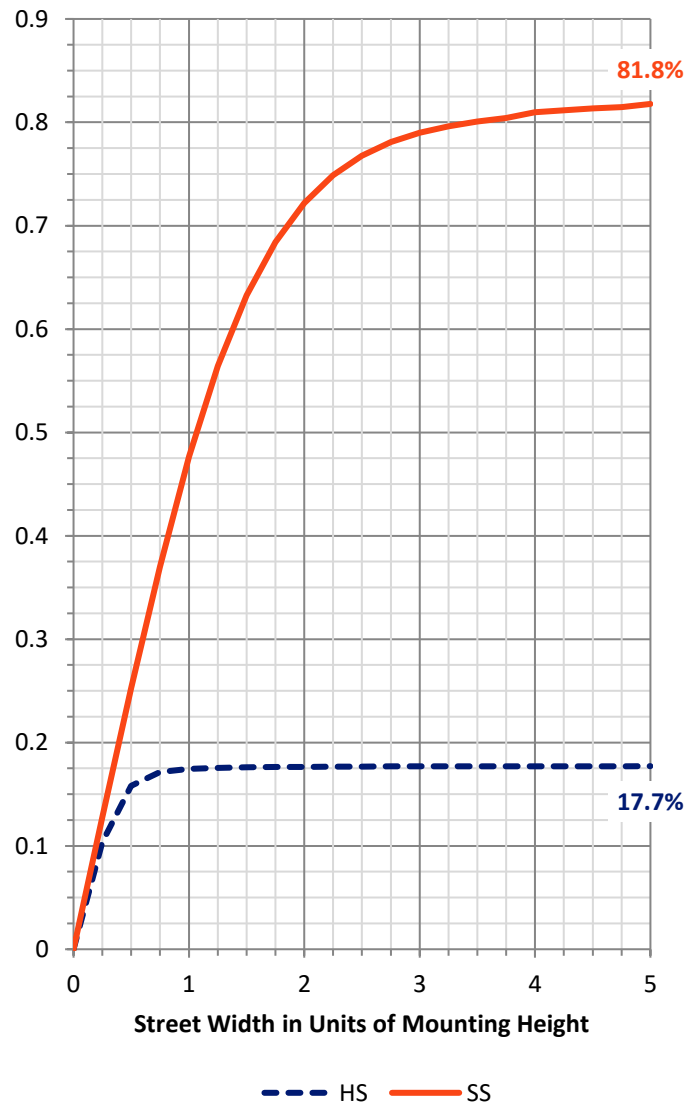
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4510.0	0.0	4510.0
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	20658.4	0.0	20658.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	25168.4	0.0	25168.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.6	1.0
10°-20°	781.4	3.1
20°-30°	1423.0	5.7
30°-40°	2419.2	9.6
40°-50°	3805.3	15.1
50°-60°	5136.7	20.4
60°-70°	6009.5	23.9
70°-80°	4471.7	17.8
80°-90°	873.0	3.5
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°	25168.4	100.0
0°-180°	25168.4	100.0

**Coefficient of Utilization**



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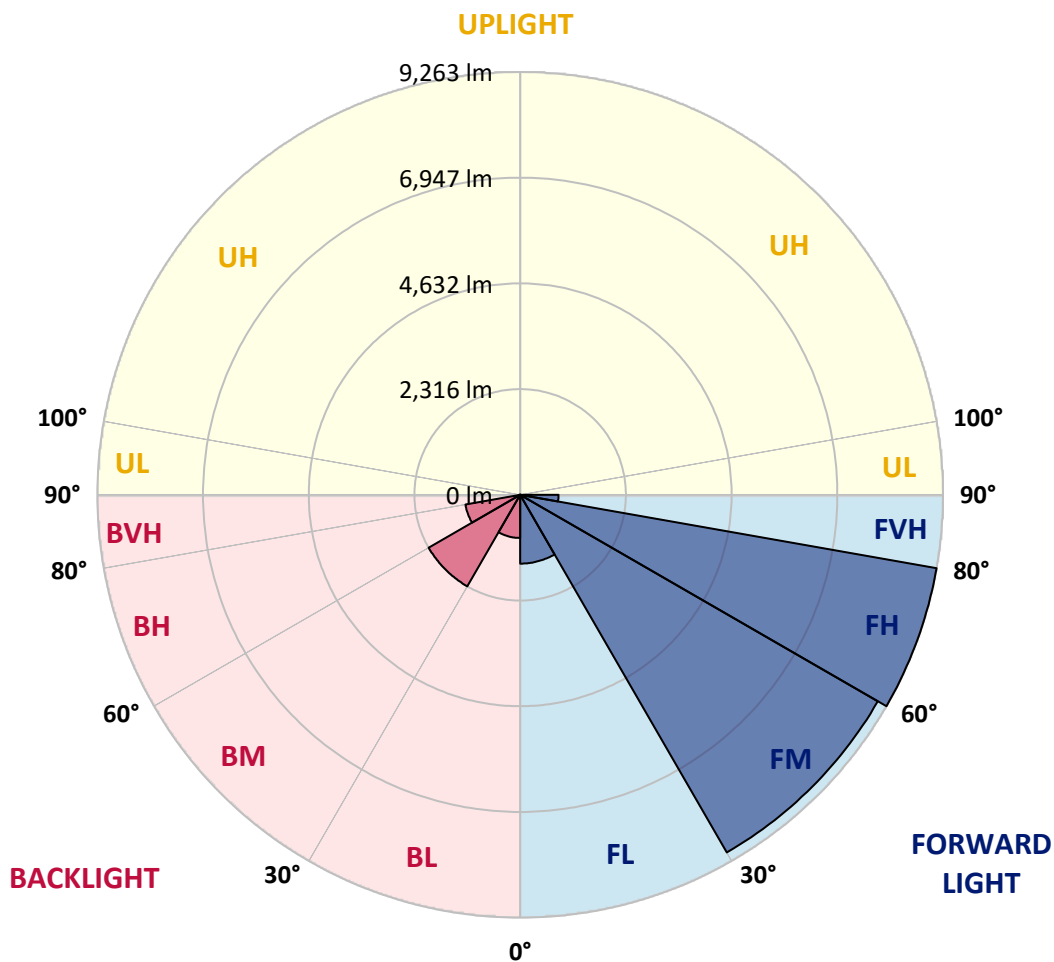
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1507.7	6.0			
FM	(30°-60°)	9046.5	35.9			
FH	(60°-80°)	9263.1	36.8			G4/12000
FVH	(80°-90°)	841.0	3.3			G5
BL	(0°-30°)	945.4	3.8	B2/1000		
BM	(30°-60°)	2314.7	9.2	B2/2500		
BH	(60°-80°)	1218.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	32.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2716.5	2714.4	2718.6	2708.0	2714.4	2694.3	2676.2	2650.8	2611.6	2597.8	2571.3
5°	2849.0	2851.1	2850.1	2842.7	2833.1	2811.9	2775.9	2740.9	2694.3	2672.0	2620.1
7.5°	2962.4	2963.5	2967.7	2965.6	2960.3	2932.7	2899.9	2855.4	2799.2	2770.6	2699.6
10°	3052.5	3051.5	3057.8	3067.4	3088.5	3067.4	3023.9	2987.9	2927.4	2889.3	2801.3
12.5°	3111.9	3104.4	3122.5	3149.0	3187.1	3190.3	3161.7	3124.6	3071.6	3027.1	2928.5
15°	3139.4	3136.2	3169.1	3224.2	3279.3	3297.3	3293.1	3265.6	3226.3	3181.8	3074.8
17.5°	3204.1	3203.0	3225.3	3289.9	3354.6	3400.2	3446.8	3442.6	3406.5	3374.7	3263.4
20°	3309.0	3311.1	3311.1	3367.3	3438.3	3518.9	3611.1	3639.7	3611.1	3592.0	3485.0
22.5°	3437.3	3427.7	3421.4	3468.0	3554.9	3667.3	3797.6	3850.6	3846.4	3827.3	3762.6
25°	3617.4	3596.2	3550.7	3609.0	3716.0	3847.4	4000.1	4089.1	4096.5	4101.8	4148.4
27.5°	3903.6	3902.6	3825.2	3829.4	3902.6	4055.2	4241.7	4395.4	4416.6	4476.0	4636.0
30°	4480.2	4421.9	4332.9	4190.8	4166.5	4310.6	4533.2	4768.5	4828.9	5010.0	5204.0
32.5°	5019.6	4976.2	4913.7	4749.4	4549.1	4602.1	4855.4	5204.0	5363.0	5724.4	5901.4
35°	5482.8	5460.5	5413.9	5316.4	5135.1	4998.4	5206.1	5688.4	6023.3	6553.3	6708.0
37.5°	5935.3	5918.4	5887.6	5801.8	5688.4	5483.8	5614.2	6259.7	6804.5	7425.6	7505.0
40°	6332.8	6327.5	6354.0	6301.0	6251.2	6124.0	6085.8	6862.7	7620.6	8275.6	8256.5
42.5°	6680.4	6672.0	6801.3	6731.3	6790.7	6741.9	6662.4	7426.6	8360.4	8973.0	8908.4
45°	6912.6	6908.3	7045.0	7115.0	7282.5	7318.5	7270.8	8011.7	9034.5	9612.1	9470.1
47.5°	7089.6	7077.9	7153.2	7422.4	7731.9	7805.0	7897.2	8664.6	9668.3	10177.1	10005.4
50°	7186.0	7190.3	7345.0	7708.5	8166.4	8334.9	8528.9	9440.4	10312.7	10782.3	10498.2
52.5°	7248.6	7294.1	7522.0	7959.7	8585.1	8880.8	9103.4	10278.8	11043.0	11353.5	11050.4
55°	7293.1	7373.6	7601.5	8095.4	8846.9	9336.6	9661.9	11162.8	11874.0	12070.0	11635.5
57.5°	7005.8	7091.7	7475.4	8119.8	9063.1	9721.3	10302.1	12109.3	12845.9	12863.9	12179.2
60°	6536.3	6589.3	7080.0	7970.3	9032.4	10075.3	11087.5	13230.6	13929.1	13919.6	12851.2
62.5°	6050.9	6078.4	6576.6	7576.1	8858.5	10205.7	11835.8	14737.8	15337.6	15054.6	13535.9
65°	5409.6	5440.4	5954.4	6925.3	8375.2	10117.7	12476.0	16318.0	17037.7	16586.2	14198.3
67.5°	4574.5	4632.8	5107.6	6009.5	7588.8	9653.5	12963.5	17401.2	17864.4	17469.1	14662.6
70°	3567.6	3619.6	4043.5	4893.6	6454.7	8707.0	13190.3	17782.8	18058.4	17695.9	14741.0
72.5°	2540.6	2578.7	2766.3	3477.5	4895.7	7276.1	12975.2	17599.4	17742.5	17289.9	14208.9
75°	1934.3	1903.6	2014.9	2284.1	2863.8	5112.9	11666.2	16770.6	16916.9	16417.6	13171.3
77.5°	1400.1	1375.8	1509.3	1718.1	1997.9	2403.9	8200.3	15068.4	15257.0	14849.1	11409.7
80°	823.5	858.5	1035.5	1233.7	1456.3	1601.5	3866.5	11257.1	12088.1	11921.6	8318.0
82.5°	156.9	169.6	430.3	654.0	802.3	849.0	1463.7	6191.8	7097.0	7278.2	4394.3
85°	102.8	111.3	257.6	262.9	256.5	328.6	591.4	2983.6	3831.5	3875.0	1930.1
87.5°	47.7	53.0	78.4	113.4	144.1	172.8	195.0	801.3	1183.9	1211.5	381.6
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°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2557.5	2546.9	2524.7	2505.6	2492.9	2485.5	2443.1	2435.7	2419.8	2408.1	2402.8
5°	2595.7	2575.6	2521.5	2484.4	2436.7	2397.5	2326.5	2290.4	2269.2	2247.0	2241.7
7.5°	2660.3	2627.5	2542.7	2475.9	2394.3	2323.3	2223.7	2166.4	2126.2	2094.4	2091.2
10°	2751.5	2699.6	2577.7	2480.2	2362.5	2265.0	2141.0	2048.8	1992.6	1951.3	1949.2
12.5°	2864.9	2793.9	2643.4	2514.1	2362.5	2227.9	2080.6	1957.6	1875.0	1818.8	1812.4
15°	3006.9	2922.1	2752.6	2593.6	2414.5	2242.7	2039.2	1873.9	1753.1	1663.0	1658.7
17.5°	3183.9	3096.0	2930.6	2751.5	2513.0	2266.1	2008.5	1775.3	1600.4	1493.4	1481.7
20°	3407.6	3366.2	3196.7	2934.9	2614.8	2277.7	1939.6	1638.6	1401.2	1263.4	1245.4
22.5°	3727.7	3704.4	3461.6	3091.7	2673.1	2241.7	1826.2	1420.3	1132.0	983.6	969.8
25°	4128.3	4047.8	3699.1	3208.3	2683.7	2162.2	1634.4	1141.5	819.3	672.0	666.7
27.5°	4545.9	4399.6	3904.7	3289.9	2652.9	2002.2	1365.2	811.9	510.9	416.5	417.6
30°	5072.6	4795.0	4137.8	3367.3	2581.9	1784.9	1012.2	505.6	321.1	263.9	256.5
32.5°	5679.9	5295.2	4371.0	3398.0	2449.4	1477.5	642.3	310.6	201.4	171.7	168.5
35°	6389.0	5914.1	4671.0	3401.2	2231.1	1098.1	384.7	182.3	136.7	137.8	139.9
37.5°	7128.8	6570.2	5036.5	3363.1	1958.7	686.8	217.3	117.6	117.6	139.9	147.3
40°	7798.6	7197.7	5424.5	3277.2	1575.0	399.6	122.9	101.8	108.1	131.4	137.8
42.5°	8413.4	7740.3	5779.5	3143.7	1124.6	216.2	106.0	92.2	97.5	108.1	111.3
45°	8945.5	8212.0	6035.0	2928.5	682.6	133.5	97.5	83.7	82.7	90.1	92.2
47.5°	9404.4	8633.8	6207.7	2621.1	357.2	127.2	94.3	76.3	71.0	74.2	75.3
50°	9875.0	8946.5	6272.4	2189.8	183.4	119.8	88.0	71.0	65.7	75.3	76.3
52.5°	10350.9	9416.0	6280.9	1586.7	145.2	108.1	80.6	65.7	63.6	83.7	86.9
55°	10814.1	9758.4	6159.0	918.9	141.0	100.7	73.1	59.4	61.5	63.6	63.6
57.5°	11302.7	10168.6	5902.5	401.7	136.7	92.2	67.8	54.1	45.6	50.9	53.0
60°	11826.3	10522.6	5386.3	232.1	130.4	82.7	58.3	44.5	38.2	38.2	41.3
62.5°	12355.1	10782.3	4541.7	169.6	124.0	77.4	50.9	39.2	31.8	31.8	33.9
65°	12698.6	10609.5	3503.0	150.5	119.8	70.0	44.5	33.9	25.4	24.4	26.5
67.5°	12636.0	9948.1	2467.4	134.6	109.2	63.6	39.2	29.7	22.3	18.0	19.1
70°	12117.7	8867.0	1368.3	126.1	97.5	58.3	35.0	26.5	18.0	11.7	11.7
72.5°	11162.8	7451.0	525.7	113.4	86.9	50.9	31.8	25.4	15.9	6.4	5.3
75°	9737.2	5670.4	189.7	95.4	72.1	46.6	30.7	26.5	14.8	2.1	0.0
77.5°	7634.4	3173.3	112.3	71.0	54.1	40.3	32.9	26.5	8.5	0.0	0.0
80°	4100.8	1145.8	79.5	45.6	36.0	29.7	29.7	21.2	4.2	0.0	0.0
82.5°	1702.2	257.6	50.9	25.4	24.4	19.1	19.1	9.5	1.1	0.0	0.0
85°	482.3	75.3	23.3	13.8	13.8	10.6	5.3	0.0	0.0	0.0	0.0
87.5°	41.3	15.9	6.4	7.4	5.3	2.1	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)