

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: P285770

Luminaire Tested: **USSL-XL-C047-D-U-T2-AP-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)  
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-T2-AP-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25629.5 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

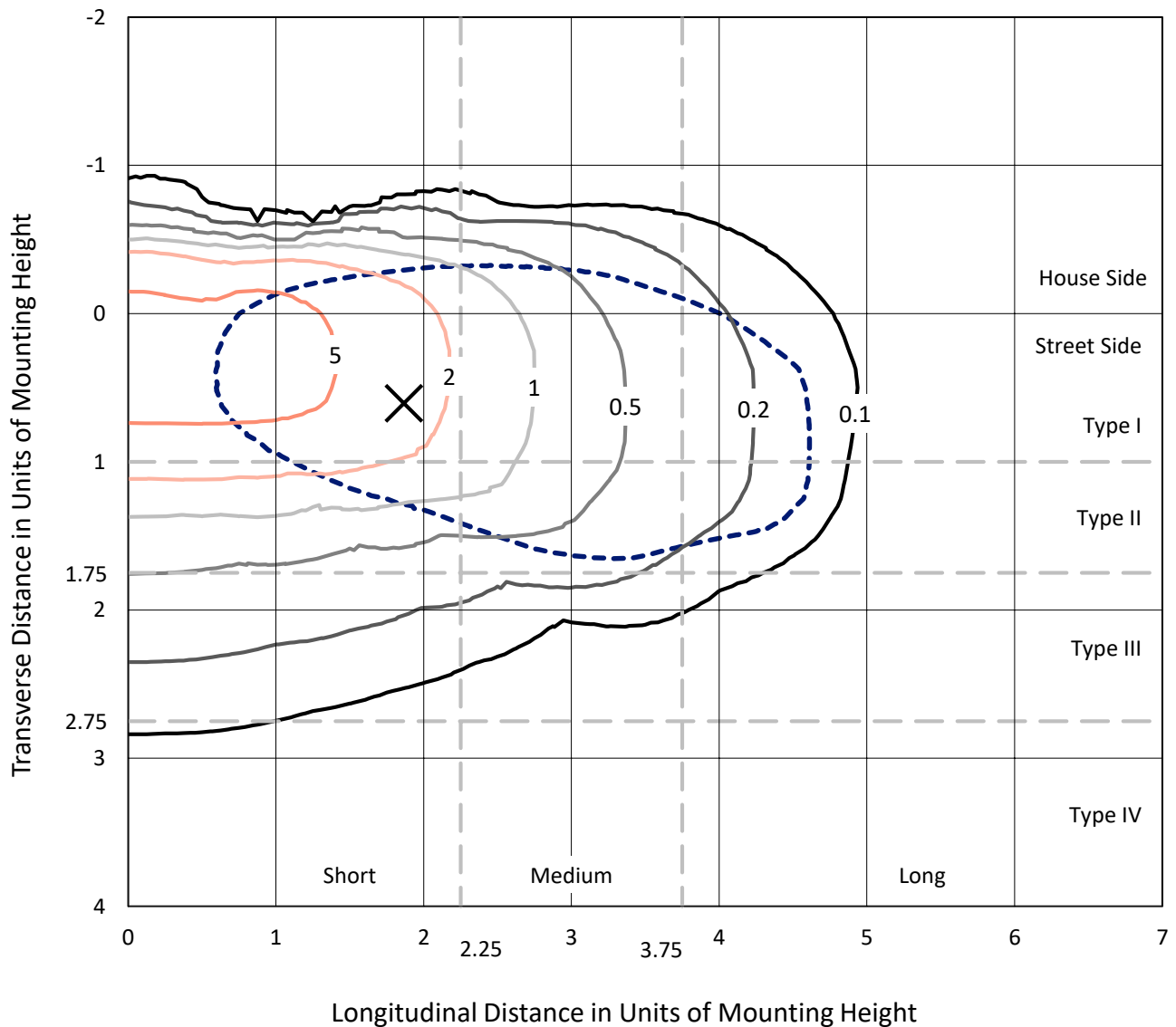
Input Watts (W): 176  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

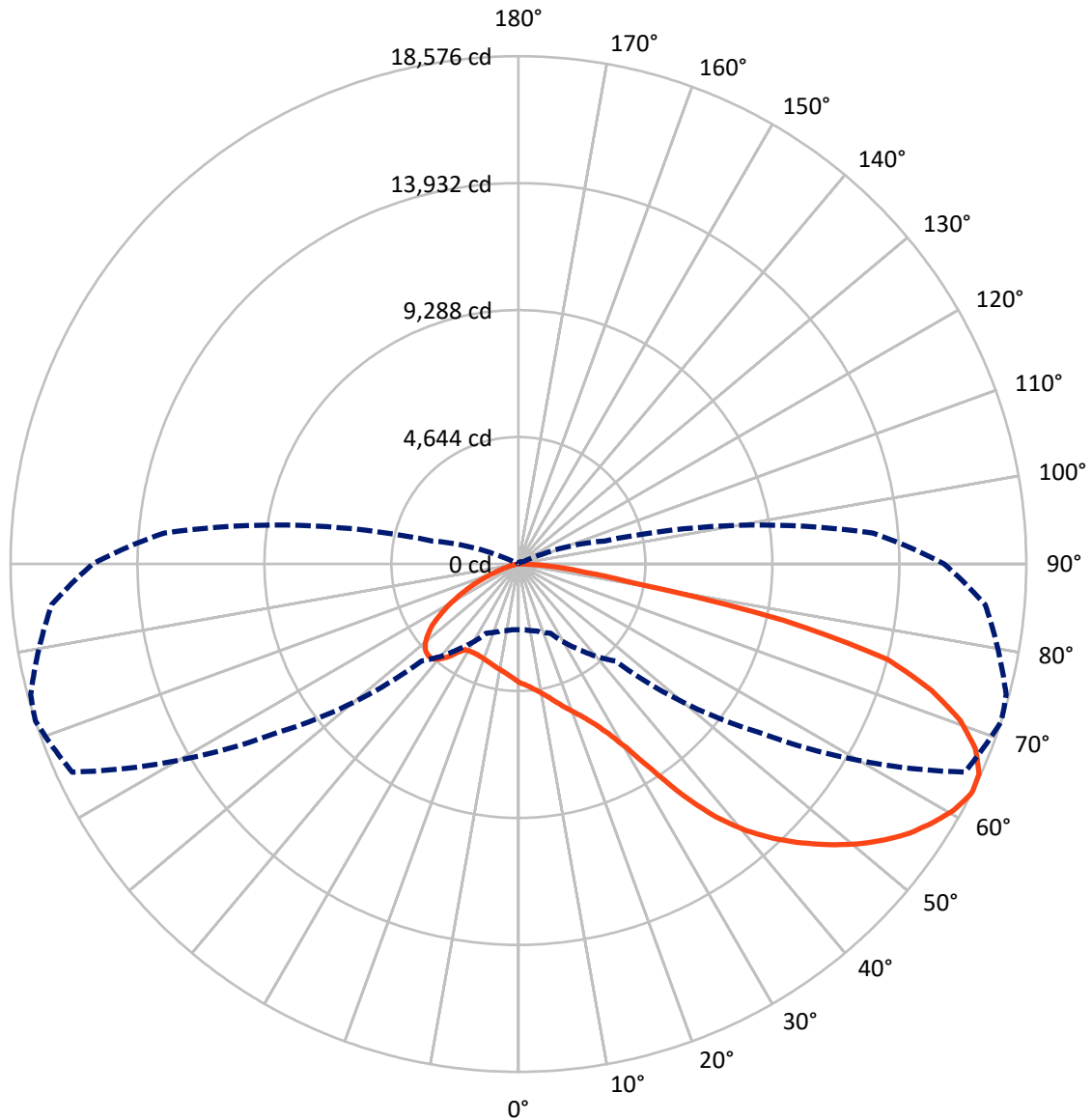
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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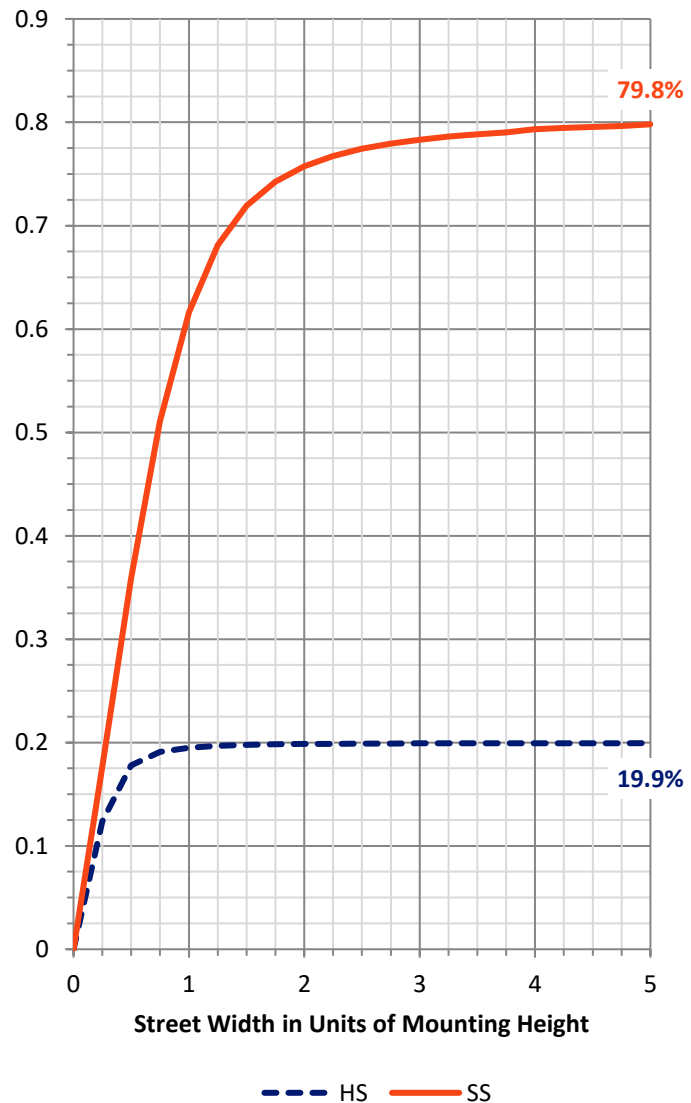
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5170.7	0.0	5170.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	20458.8	0.0	20458.8
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	25629.5	0.0	25629.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.2	1.6
10°-20°	1256.0	4.9
20°-30°	2119.3	8.3
30°-40°	3243.5	12.7
40°-50°	4518.6	17.6
50°-60°	5237.1	20.4
60°-70°	5134.2	20.0
70°-80°	3205.5	12.5
80°-90°	501.0	2.0
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°	25629.5	100.0
0°-180°	25629.5	100.0

**Coefficient of Utilization**



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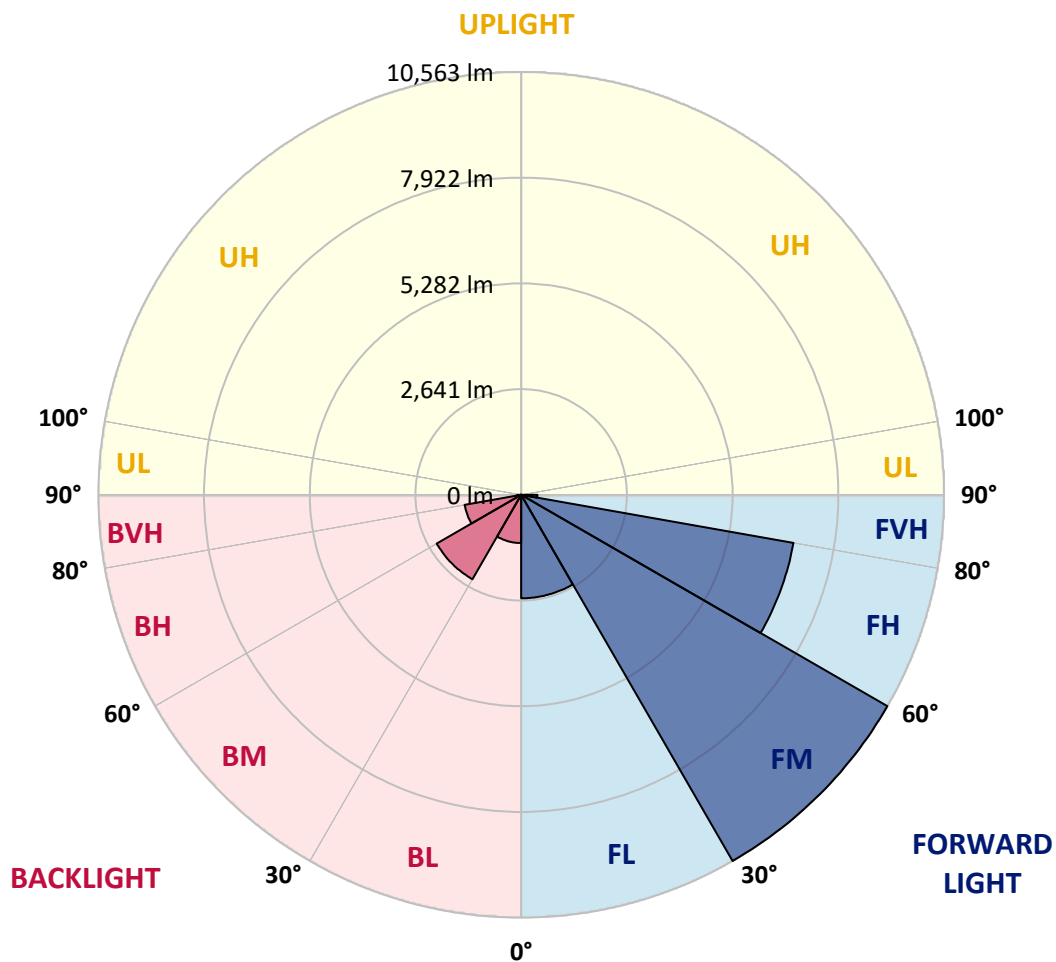
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.2	10.1			
FM (30°-60°)	10563.3	41.2			
FH (60°-80°)	6906.3	26.9			G3/7500
FVH (80°-90°)	405.0	1.6			G3/500
BL (0°-30°)	1205.4	4.7	B3/2500		
BM (30°-60°)	2435.9	9.5	B2/2500		
BH (60°-80°)	1433.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	96.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2
2.5°	4713.4	4700.7	4686.9	4669.9	4656.1	4613.7	4575.6	4502.5	4412.4	4408.1	4335.0
5°	5034.5	5014.4	4998.5	4968.8	4936.0	4860.7	4772.7	4649.8	4521.5	4501.4	4372.1
7.5°	5302.7	5281.5	5263.5	5225.3	5188.2	5096.0	4982.6	4817.2	4658.3	4618.0	4424.0
10°	5536.9	5515.7	5507.2	5465.9	5439.4	5338.7	5197.7	5018.6	4819.4	4757.9	4502.5
12.5°	5783.9	5761.6	5746.8	5703.3	5671.5	5564.5	5439.4	5239.1	5013.3	4947.6	4614.8
15°	6027.7	6007.5	5973.6	5950.3	5913.2	5801.9	5684.2	5475.4	5250.7	5168.1	4765.3
17.5°	6252.4	6235.4	6210.0	6189.8	6159.1	6043.5	5915.3	5738.3	5508.3	5406.5	4938.1
20°	6417.7	6418.8	6408.2	6397.6	6408.2	6313.8	6210.0	6012.8	5776.5	5657.7	5117.2
22.5°	6559.7	6568.2	6582.0	6597.9	6665.7	6619.1	6494.0	6334.0	6080.6	5940.7	5347.2
25°	6629.7	6636.0	6697.5	6801.4	6954.0	6952.9	6836.4	6720.8	6480.2	6335.0	5667.3
27.5°	6671.0	6679.5	6765.3	6974.1	7243.4	7284.7	7237.0	7186.1	7018.7	6873.5	6090.2
30°	6668.9	6680.5	6813.0	7074.8	7471.2	7681.1	7685.3	7872.9	7793.4	7693.8	6803.5
32.5°	6509.9	6514.1	6698.6	7084.4	7642.9	8033.0	8207.9	8699.7	8945.6	8963.6	8121.0
35°	6132.6	6186.6	6462.2	6998.5	7766.9	8377.4	8830.0	9756.3	10409.2	10439.9	9443.6
37.5°	5861.2	5894.1	6207.8	6844.8	7824.2	8736.8	9544.3	11025.0	11739.3	11664.1	10538.5
40°	5564.5	5604.8	5927.0	6639.2	7788.1	9045.2	10272.4	12242.8	12815.1	12697.5	11471.2
42.5°	5235.9	5269.8	5573.0	6335.0	7673.7	9267.7	10975.2	13295.3	13735.1	13591.0	12319.1
45°	4912.6	4934.9	5222.1	5924.8	7453.2	9403.3	11616.4	14242.8	14551.3	14429.4	13100.3
47.5°	4502.5	4529.0	4880.8	5533.7	7049.4	9399.1	12171.8	15085.5	15343.0	15207.3	13796.6
50°	3472.2	3489.2	4266.1	5178.7	6527.9	9212.5	12647.7	15848.6	16091.3	15936.6	14485.5
52.5°	3145.8	3159.6	3400.2	4736.7	5958.8	8825.8	12960.4	16552.4	16771.8	16606.4	15135.3
55°	2990.0	2999.5	3116.1	3854.9	5459.5	8162.3	13098.1	17204.2	17370.6	17156.5	15663.1
57.5°	2769.5	2788.6	2964.5	3301.6	4970.9	7143.7	12901.0	17731.0	17856.0	17646.2	16177.1
60°	2602.1	2613.7	2762.1	3029.2	4380.6	6004.3	12197.2	18087.1	18290.6	18100.9	16660.5
62.5°	2438.8	2443.1	2567.1	2826.8	3867.6	5153.2	10996.4	18064.8	18557.7	18440.0	17082.3
63°	2403.9	2408.1	2534.2	2789.7	3792.3	5012.3	10733.5	18010.8	18575.7	18468.7	17138.5
65°	2255.5	2261.8	2384.8	2620.1	3465.9	4566.0	9569.7	17678.0	18515.3	18512.1	17213.7
67.5°	2033.9	2045.6	2150.5	2351.9	3020.7	4002.2	7775.4	17322.9	18029.9	18068.0	16792.9
70°	1765.8	1774.3	1893.0	2062.6	2541.6	3398.0	5954.5	16187.7	17137.4	17031.4	15817.8
72.5°	1481.7	1496.6	1610.0	1741.4	2108.1	2803.4	4311.7	14251.3	15797.7	15876.1	14182.4
75°	1293.1	1301.6	1399.1	1492.3	1751.0	2231.1	2884.0	10233.2	13968.3	13988.5	12234.3
77.5°	1072.6	1083.2	1183.9	1271.9	1420.3	1679.9	1989.4	5318.6	9932.2	10496.1	9499.8
80°	591.4	686.8	853.2	917.9	1028.1	1020.7	1265.5	2810.9	4395.4	5495.6	6274.6
82.5°	99.6	128.2	344.5	449.4	489.7	430.3	614.7	1547.5	2450.5	2811.9	3376.8
85°	42.4	61.5	180.2	197.1	122.9	119.8	242.7	809.8	1402.2	1615.3	1740.4
87.5°	5.3	9.5	46.6	61.5	28.6	39.2	48.8	253.3	488.6	561.7	634.9
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°	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2	4338.2
2.5°	4300.0	4275.6	4219.5	4176.0	4144.2	4100.8	4054.1	4020.2	3984.2	3968.3	3974.6
5°	4306.4	4252.3	4132.6	4038.2	3933.3	3855.9	3755.2	3704.4	3649.2	3621.7	3620.6
7.5°	4323.3	4238.5	4049.9	3901.5	3752.0	3631.2	3499.8	3409.7	3360.9	3324.9	3320.7
10°	4365.7	4244.9	3987.3	3786.0	3593.1	3430.9	3270.9	3154.3	3087.5	3050.4	3055.7
12.5°	4442.0	4268.2	3942.8	3691.6	3443.6	3250.7	3046.2	2909.4	2827.8	2782.2	2795.0
15°	4547.0	4319.1	3897.3	3575.0	3283.6	3056.8	2838.4	2683.7	2592.5	2553.3	2566.0
17.5°	4664.6	4393.3	3865.5	3444.7	3115.0	2858.6	2656.1	2504.5	2351.9	2321.2	2321.2
20°	4796.0	4476.0	3860.2	3320.7	2948.6	2669.9	2436.7	2309.5	2088.0	2012.8	1996.9
22.5°	4969.9	4592.5	3853.8	3207.3	2771.6	2474.9	2188.7	1988.4	1701.1	1571.8	1559.1
25°	5209.4	4753.7	3864.4	3114.0	2610.5	2255.5	1847.4	1526.3	1284.6	1122.4	1114.0
27.5°	5530.6	4968.8	3898.3	3027.1	2449.4	1985.2	1430.9	1088.5	902.0	756.8	713.3
30°	6137.9	5309.0	3957.7	2949.7	2261.8	1622.7	1017.5	736.6	603.1	502.4	480.1
32.5°	7298.5	6163.3	4039.3	2863.8	2030.8	1195.6	679.4	491.8	383.7	325.4	338.1
35°	8455.9	7228.5	4428.3	2737.7	1726.6	796.0	453.6	313.7	241.7	239.5	253.3
37.5°	9498.7	8170.8	4954.0	2596.8	1319.6	535.2	272.4	208.8	202.4	220.5	248.0
40°	10363.6	8936.0	5398.1	2399.6	906.2	327.5	178.1	189.7	180.2	187.6	184.4
42.5°	11167.0	9624.8	5758.4	2176.0	534.2	188.7	154.7	175.9	162.2	155.8	143.1
45°	11889.9	10274.6	5939.7	1824.1	311.6	150.5	141.0	166.4	156.9	145.2	126.1
47.5°	12548.1	10844.8	6058.4	1342.9	179.1	131.4	131.4	149.4	147.3	133.5	122.9
50°	13230.6	11402.3	6046.7	824.6	151.6	120.8	125.1	125.1	132.5	103.9	94.3
52.5°	13833.7	11903.6	5805.1	467.4	139.9	114.5	113.4	101.8	108.1	80.6	75.3
55°	14323.4	12293.7	5399.1	308.4	132.5	113.4	99.6	88.0	82.7	58.3	60.4
57.5°	14804.6	12664.6	4778.0	243.8	137.8	109.2	91.2	75.3	64.7	45.6	43.5
60°	15268.8	12960.4	4119.8	219.4	145.2	109.2	75.3	63.6	43.5	35.0	30.7
62.5°	15549.7	13025.0	3391.7	198.2	149.4	101.8	67.8	51.9	31.8	23.3	21.2
63°	15569.8	13005.9	3262.4	195.0	150.5	101.8	67.8	49.8	30.7	21.2	19.1
65°	15539.1	12765.3	2757.9	184.4	153.7	97.5	64.7	40.3	24.4	14.8	12.7
67.5°	15025.0	11960.9	2044.5	172.8	147.3	96.5	59.4	32.9	19.1	9.5	7.4
70°	13766.9	10712.3	1366.2	153.7	142.0	94.3	70.0	27.6	15.9	5.3	4.2
72.5°	12009.6	9365.2	914.7	126.1	124.0	77.4	42.4	23.3	11.7	2.1	0.0
75°	10150.6	7536.9	566.0	96.5	100.7	65.7	33.9	20.1	9.5	0.0	0.0
77.5°	7901.6	5567.7	402.8	61.5	71.0	56.2	28.6	17.0	7.4	0.0	0.0
80°	5390.7	3773.2	291.5	33.9	37.1	37.1	23.3	12.7	4.2	0.0	0.0
82.5°	3126.7	2114.5	148.4	17.0	15.9	19.1	10.6	6.4	1.1	0.0	0.0
85°	1525.2	937.0	25.4	9.5	8.5	8.5	4.2	0.0	0.0	0.0	0.0
87.5°	517.2	242.7	3.2	4.2	3.2	1.1	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)