

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: P285813

Luminaire Tested: **USSL-XL-C069-D-U-T3-AP-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285813  
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-C069-D-U-T3-AP-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 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: 39625.4 lumens  
Efficiency: N/A  
Efficacy: 139.0 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

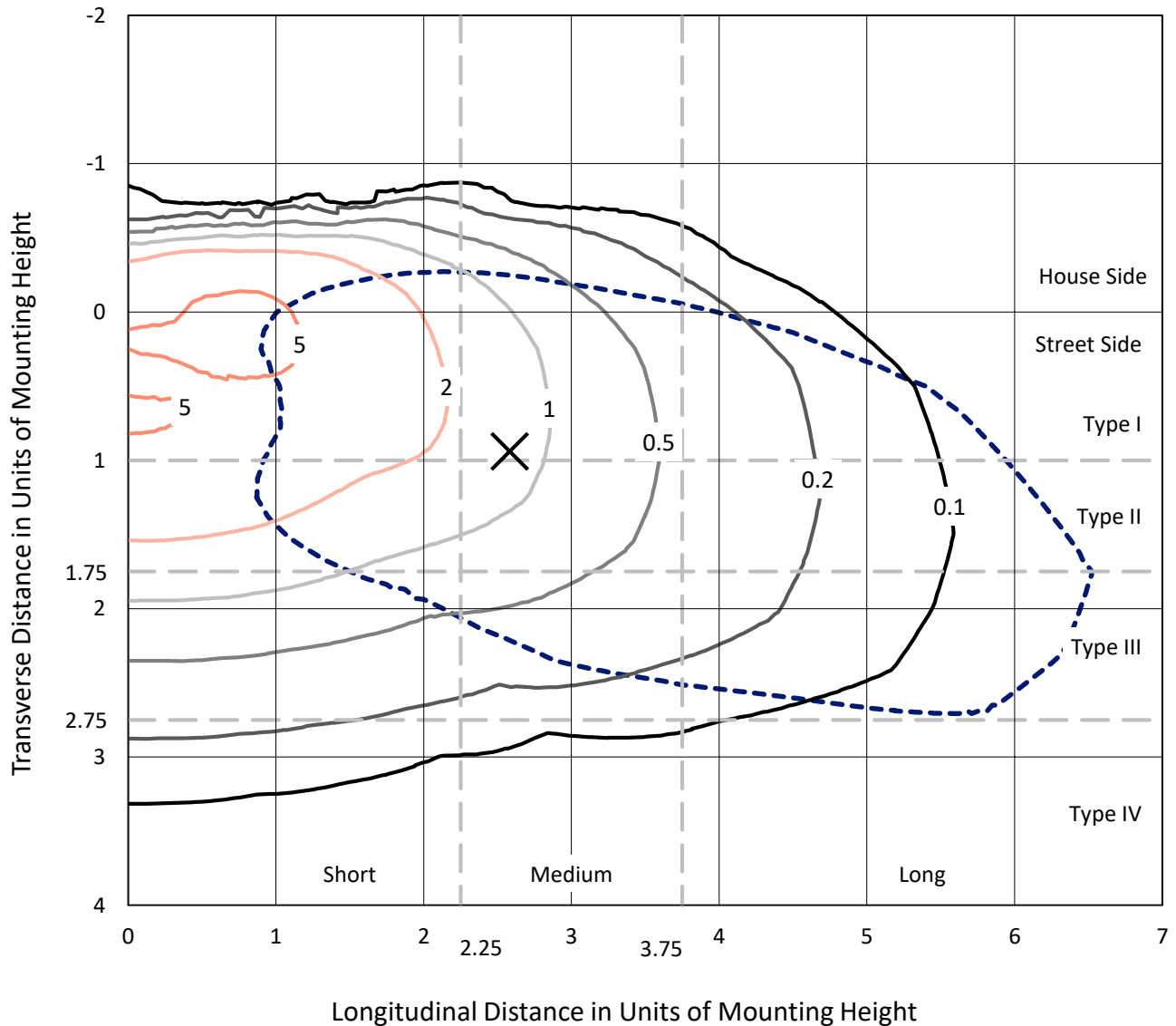
Input Watts (W): 285  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

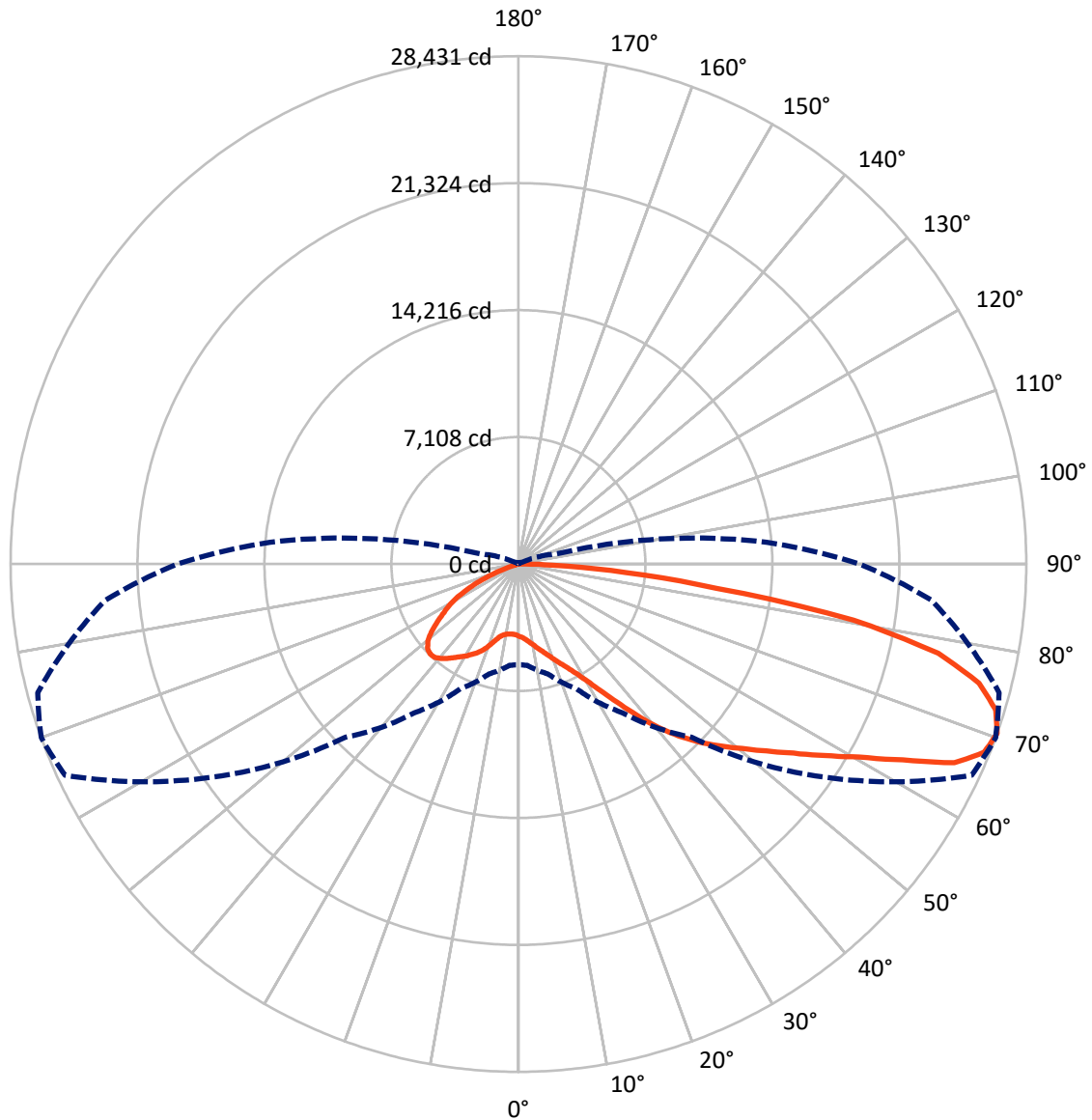
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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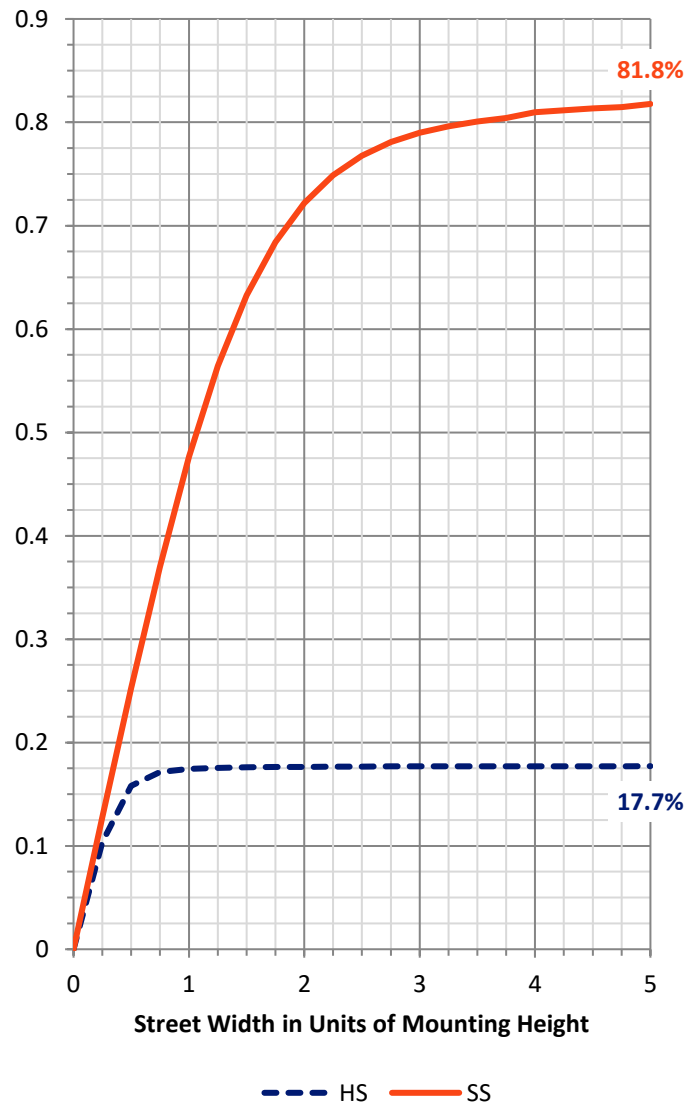
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7100.6	0.0	7100.6
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	32524.8	0.0	32524.8
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	39625.4	0.0	39625.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.5	1.0
10°-20°	1230.3	3.1
20°-30°	2240.3	5.7
30°-40°	3808.8	9.6
40°-50°	5991.1	15.1
50°-60°	8087.4	20.4
60°-70°	9461.4	23.9
70°-80°	7040.2	17.8
80°-90°	1374.4	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°	39625.4	100.0
0°-180°	39625.4	100.0

**Coefficient of Utilization**



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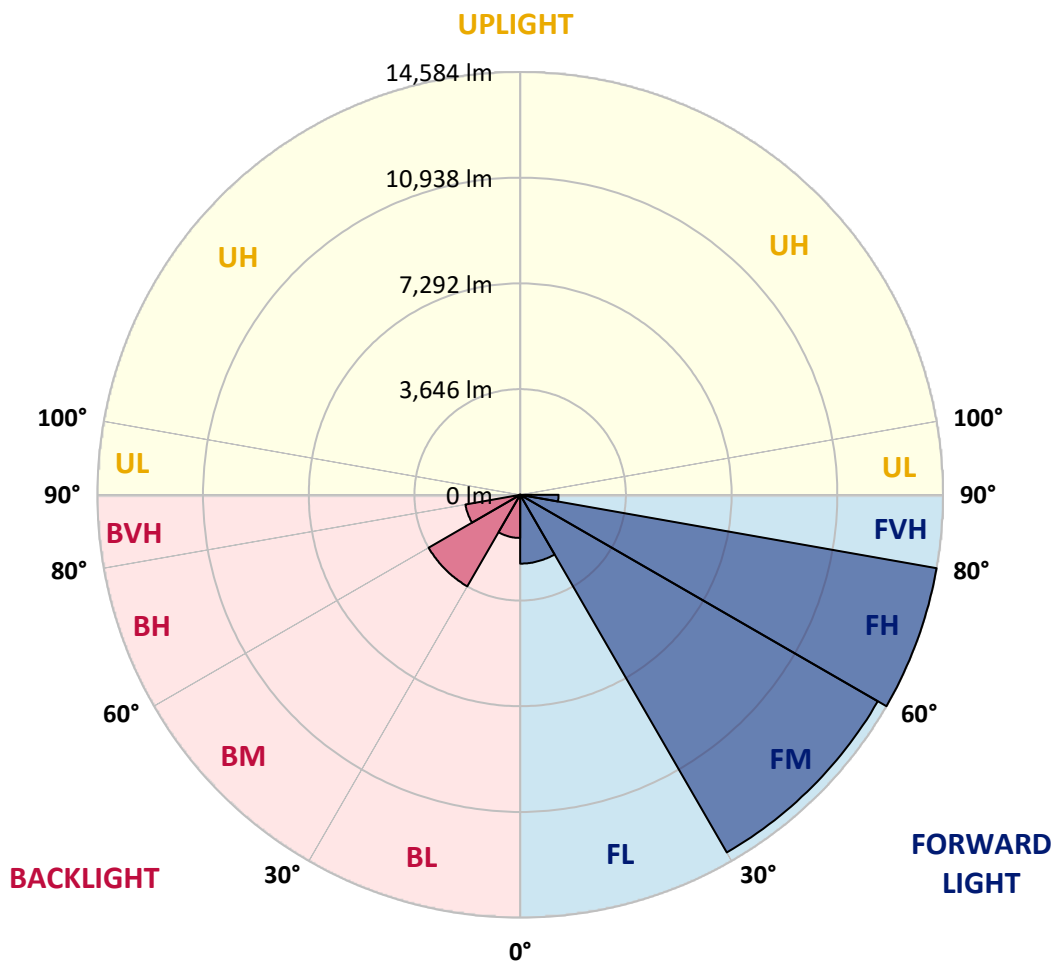
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2373.8	6.0			
FM	(30°-60°)	14243.0	35.9			
FH	(60°-80°)	14584.0	36.8			G5
FVH	(80°-90°)	1324.0	3.3			G5
BL	(0°-30°)	1488.4	3.8	B3/2500		
BM	(30°-60°)	3644.3	9.2	B3/5000		
BH	(60°-80°)	1917.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	50.4	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°	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0
2.5°	4276.9	4273.5	4280.2	4263.6	4273.5	4241.8	4213.4	4173.5	4111.7	4089.9	4048.3
5°	4485.5	4488.8	4487.2	4475.4	4460.5	4427.1	4370.3	4315.3	4241.8	4206.8	4125.0
7.5°	4664.0	4665.7	4672.4	4669.1	4660.7	4617.3	4565.5	4495.5	4407.1	4362.0	4250.2
10°	4805.9	4804.2	4814.2	4829.2	4862.6	4829.2	4760.9	4704.0	4609.0	4548.9	4410.3
12.5°	4899.3	4887.6	4916.0	4957.7	5017.8	5022.8	4977.7	4919.3	4835.9	4765.8	4610.7
15°	4942.7	4937.7	4989.4	5076.2	5163.0	5191.3	5184.6	5141.3	5079.6	5009.4	4840.9
17.5°	5044.5	5042.8	5077.9	5179.6	5281.5	5353.2	5426.6	5419.9	5363.2	5313.2	5138.0
20°	5209.7	5213.0	5213.0	5301.5	5413.2	5540.1	5685.3	5730.3	5685.3	5655.2	5486.7
22.5°	5411.6	5396.6	5386.5	5460.0	5596.8	5773.7	5979.0	6062.4	6055.7	6025.6	5923.9
25°	5695.3	5661.9	5590.1	5681.9	5850.4	6057.4	6297.7	6437.8	6449.5	6457.9	6531.3
27.5°	6145.8	6144.1	6022.4	6029.0	6144.1	6384.4	6678.1	6920.1	6953.5	7047.0	7298.9
30°	7053.6	6961.8	6821.6	6598.1	6559.6	6786.6	7137.0	7507.5	7602.6	7888.0	8193.3
32.5°	7902.9	7834.6	7736.1	7477.5	7162.1	7245.5	7644.3	8193.3	8443.6	9012.6	9291.3
35°	8632.1	8597.2	8523.7	8370.2	8084.8	7869.7	8196.6	8955.9	9483.2	10317.6	10561.3
37.5°	9344.7	9318.0	9269.7	9134.4	8955.9	8633.8	8839.1	9855.4	10713.0	11690.9	11816.1
40°	9970.5	9962.1	10003.9	9920.5	9842.0	9641.8	9581.7	10804.8	11998.0	13029.2	12999.1
42.5°	10517.8	10504.5	10708.1	10597.9	10691.4	10614.6	10489.5	11692.6	13162.7	14127.2	14025.4
45°	10883.3	10876.6	11091.9	11202.0	11465.7	11522.4	11447.3	12613.8	14224.0	15133.5	14909.8
47.5°	11161.9	11143.6	11262.1	11685.9	12173.2	12288.4	12433.5	13641.7	15221.9	16022.8	15752.6
50°	11313.8	11320.5	11564.1	12136.5	12857.3	13122.6	13428.1	14863.1	16236.5	16975.7	16528.5
52.5°	11412.3	11484.0	11842.8	12531.9	13516.5	13982.1	14332.5	16183.1	17386.2	17875.1	17397.9
55°	11482.3	11609.2	11968.0	12745.5	13928.7	14699.6	15211.9	17574.7	18694.5	19003.2	18319.0
57.5°	11030.2	11165.3	11769.3	12783.9	14269.1	15305.4	16219.8	19065.0	20224.7	20253.0	19175.1
60°	10290.9	10374.3	11147.0	12548.7	14220.7	15862.7	17456.3	20830.4	21930.1	21915.0	20233.0
62.5°	9526.6	9570.0	10354.3	11927.9	13947.0	16068.0	18634.4	23203.3	24147.8	23702.2	21311.0
65°	8517.0	8565.5	9374.8	10903.3	13186.1	15929.4	19642.3	25691.3	26824.4	26113.5	22353.9
67.5°	7202.1	7293.9	8041.5	9461.5	11947.9	15198.5	20409.9	27396.7	28125.9	27503.6	23084.8
70°	5616.8	5698.7	6366.1	7704.4	10162.4	13708.4	20767.0	27997.5	28431.4	27860.6	23208.3
72.5°	3999.9	4059.9	4355.3	5475.0	7707.7	11455.6	20428.3	27708.8	27934.1	27221.5	22370.7
75°	3045.4	2997.0	3172.2	3596.0	4508.8	8049.8	18367.4	26403.9	26634.1	25848.2	20736.9
77.5°	2204.4	2166.0	2376.2	2705.0	3145.5	3784.6	12910.7	23724.0	24020.9	23378.5	17963.6
80°	1296.6	1351.7	1630.3	1942.4	2292.8	2521.4	6087.4	17723.3	19031.6	18769.6	13096.0
82.5°	247.0	267.0	677.5	1029.6	1263.2	1336.6	2304.4	9748.5	11173.7	11459.0	6918.4
85°	161.8	175.2	405.5	413.9	403.8	517.3	931.1	4697.4	6032.3	6100.8	3038.7
87.5°	75.0	83.4	123.5	178.6	226.9	272.0	307.1	1261.5	1863.9	1907.3	600.8
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°	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0	4050.0
2.5°	4026.6	4009.9	3974.8	3944.8	3924.8	3913.2	3846.4	3834.7	3809.6	3791.3	3783.0
5°	4086.7	4055.0	3969.9	3911.5	3836.3	3774.6	3662.8	3606.1	3572.7	3537.6	3529.3
7.5°	4188.4	4136.7	4003.2	3898.1	3769.6	3657.8	3501.0	3410.9	3347.4	3297.3	3292.4
10°	4331.9	4250.2	4058.3	3904.8	3719.5	3566.0	3370.8	3225.6	3137.2	3072.1	3068.7
12.5°	4510.5	4398.7	4161.7	3958.2	3719.5	3507.6	3275.6	3082.1	2951.9	2863.5	2853.5
15°	4734.1	4600.6	4333.6	4083.3	3801.3	3531.0	3210.5	2950.2	2760.1	2618.2	2611.5
17.5°	5012.8	4874.3	4614.0	4331.9	3956.5	3567.7	3162.2	2795.1	2519.7	2351.2	2332.8
20°	5364.9	5299.8	5032.8	4620.6	4116.7	3586.1	3053.7	2579.8	2206.1	1989.1	1960.7
22.5°	5868.9	5832.1	5450.0	4867.6	4208.4	3529.3	2875.2	2236.1	1782.2	1548.5	1526.9
25°	6499.6	6372.8	5823.7	5051.2	4225.2	3404.2	2573.1	1797.2	1289.9	1058.0	1049.6
27.5°	7157.1	6926.8	6147.5	5179.6	4176.7	3152.1	2149.3	1278.2	804.4	655.8	657.5
30°	7986.5	7549.2	6514.6	5301.5	4064.9	2810.1	1593.6	796.0	505.6	415.5	403.8
32.5°	8942.6	8336.9	6881.7	5349.8	3856.3	2326.2	1011.3	488.9	317.0	270.4	265.3
35°	10059.0	9311.3	7354.0	5354.8	3512.6	1728.8	605.7	287.0	215.3	217.0	220.2
37.5°	11223.7	10344.3	7929.6	5294.8	3083.8	1081.3	342.1	185.3	185.3	220.2	231.9
40°	12278.3	11332.1	8540.5	5159.6	2479.7	629.1	193.5	160.2	170.2	206.9	217.0
42.5°	13246.2	12186.5	9099.5	4949.4	1770.5	340.4	166.8	145.2	153.5	170.2	175.2
45°	14083.8	12929.1	9501.6	4610.7	1074.6	210.3	153.5	131.9	130.2	141.8	145.2
47.5°	14806.4	13593.2	9773.5	4126.7	562.4	200.2	148.5	120.2	111.8	116.8	118.5
50°	15547.2	14085.5	9875.4	3447.5	288.7	188.6	138.5	111.8	103.4	118.5	120.2
52.5°	16296.5	14824.7	9888.8	2498.1	228.6	170.2	126.9	103.4	100.2	131.9	136.8
55°	17025.8	15363.8	9696.8	1446.8	221.9	158.6	115.1	93.5	96.8	100.2	100.2
57.5°	17795.1	16009.6	9293.0	632.4	215.3	145.2	106.8	85.1	71.8	80.1	83.4
60°	18619.4	16566.9	8480.4	365.5	205.3	130.2	91.8	70.1	60.1	60.1	65.1
62.5°	19452.0	16975.7	7150.4	267.0	195.2	121.8	80.1	61.8	50.0	50.0	53.4
65°	19992.7	16703.7	5515.1	237.0	188.6	110.1	70.1	53.4	40.1	38.4	41.8
67.5°	19894.2	15662.5	3884.7	211.9	171.9	100.2	61.8	46.7	35.1	28.4	30.0
70°	19078.3	13960.4	2154.2	198.6	153.5	91.8	55.1	41.8	28.4	18.3	18.3
72.5°	17574.7	11731.0	827.7	178.6	136.8	80.1	50.0	40.1	25.0	10.0	8.4
75°	15330.4	8927.5	298.7	150.2	113.5	73.5	48.4	41.8	23.3	3.3	0.0
77.5°	12019.7	4996.1	176.9	111.8	85.1	63.4	51.7	41.8	13.4	0.0	0.0
80°	6456.2	1803.8	125.2	71.8	56.7	46.7	46.7	33.4	6.7	0.0	0.0
82.5°	2680.0	405.5	80.1	40.1	38.4	30.0	30.0	15.1	1.7	0.0	0.0
85°	759.3	118.5	36.7	21.7	21.7	16.6	8.4	0.0	0.0	0.0	0.0
87.5°	65.1	25.0	10.0	11.7	8.4	3.3	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)