

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: P285837

Luminaire Tested: **USSL-XL-C04-D-U-T4-AP-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C04-D-U-T4-AP-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39144.2 lumens  
Efficiency: N/A  
Efficacy: 148.3 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

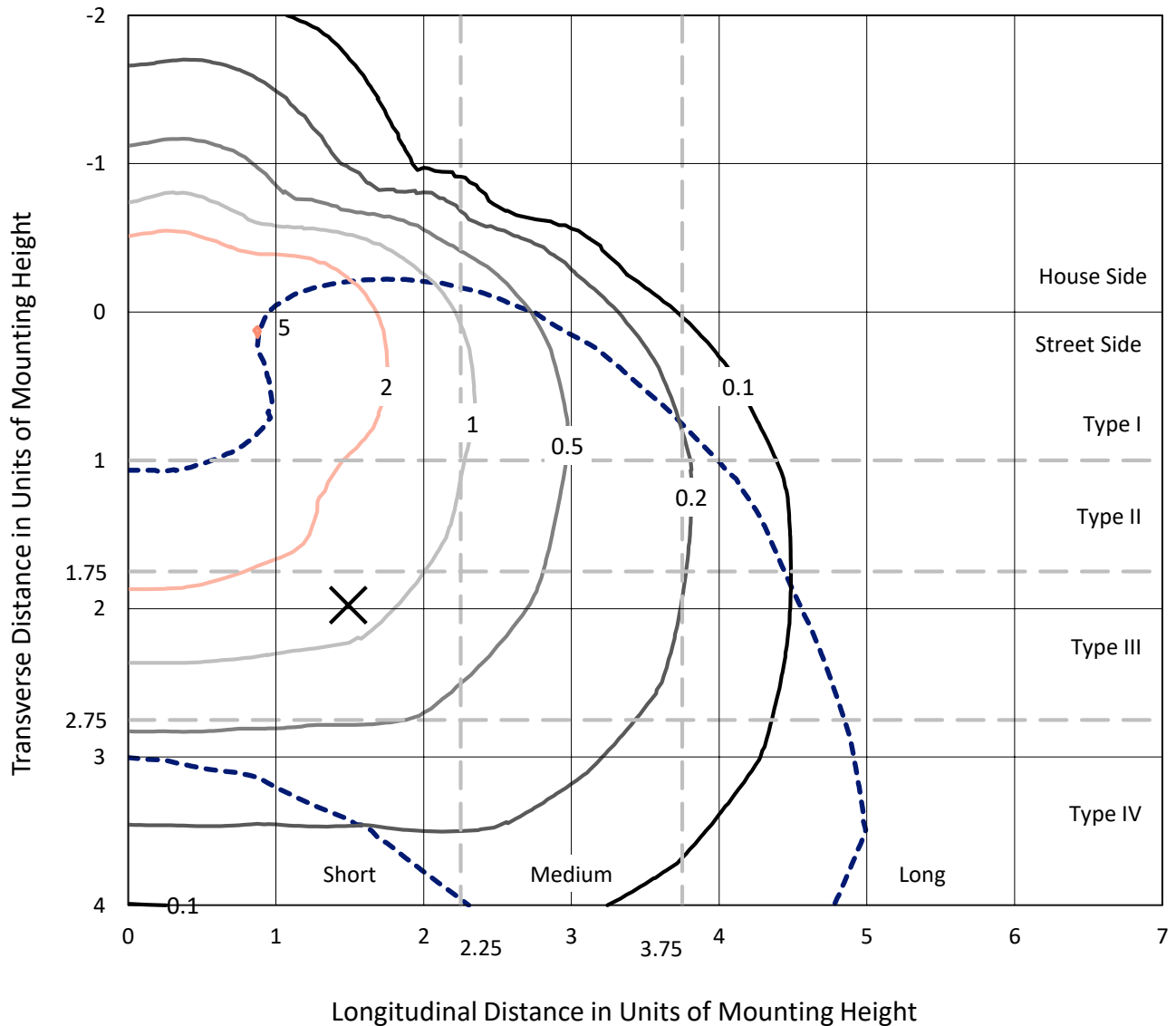
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

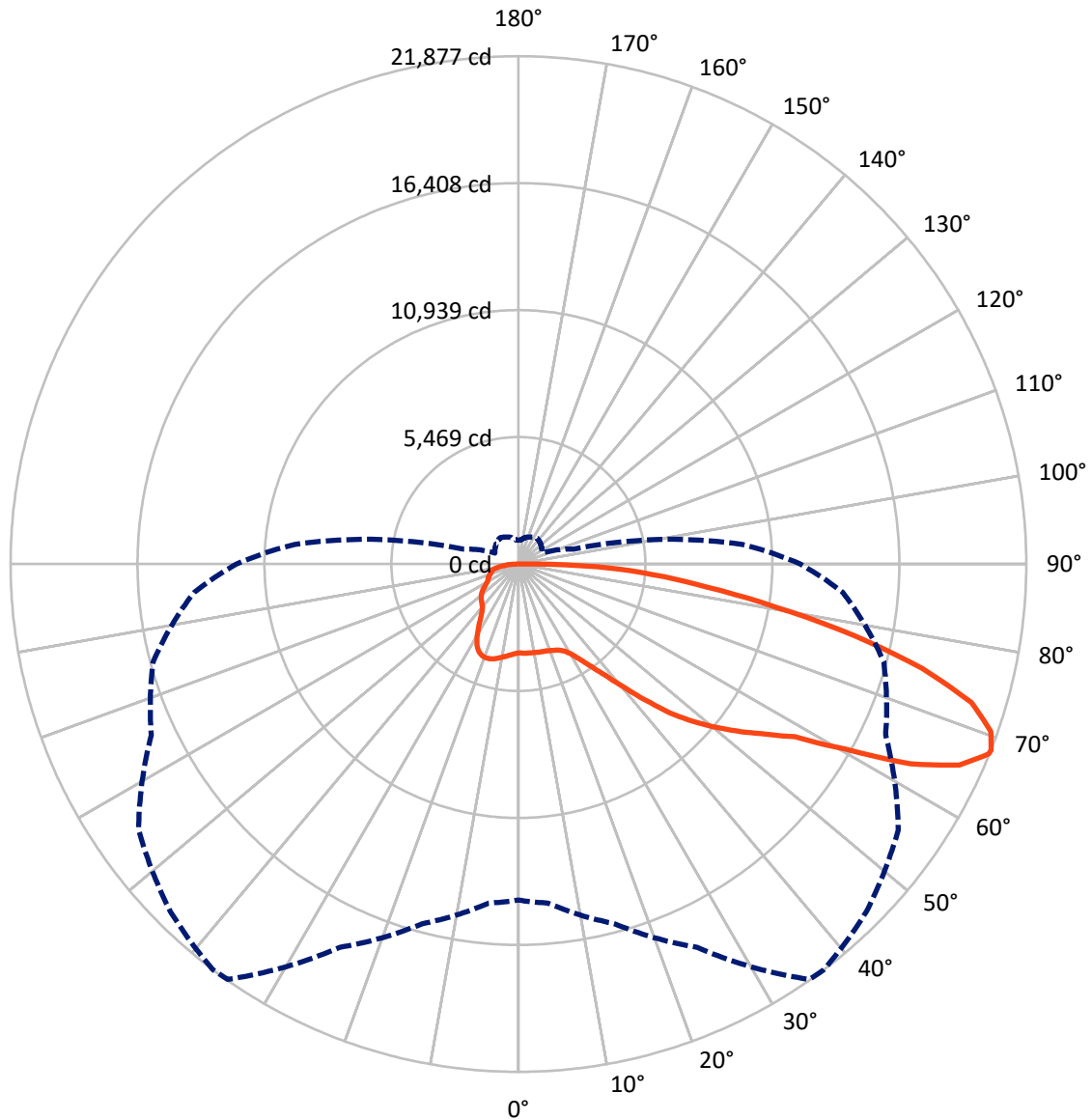
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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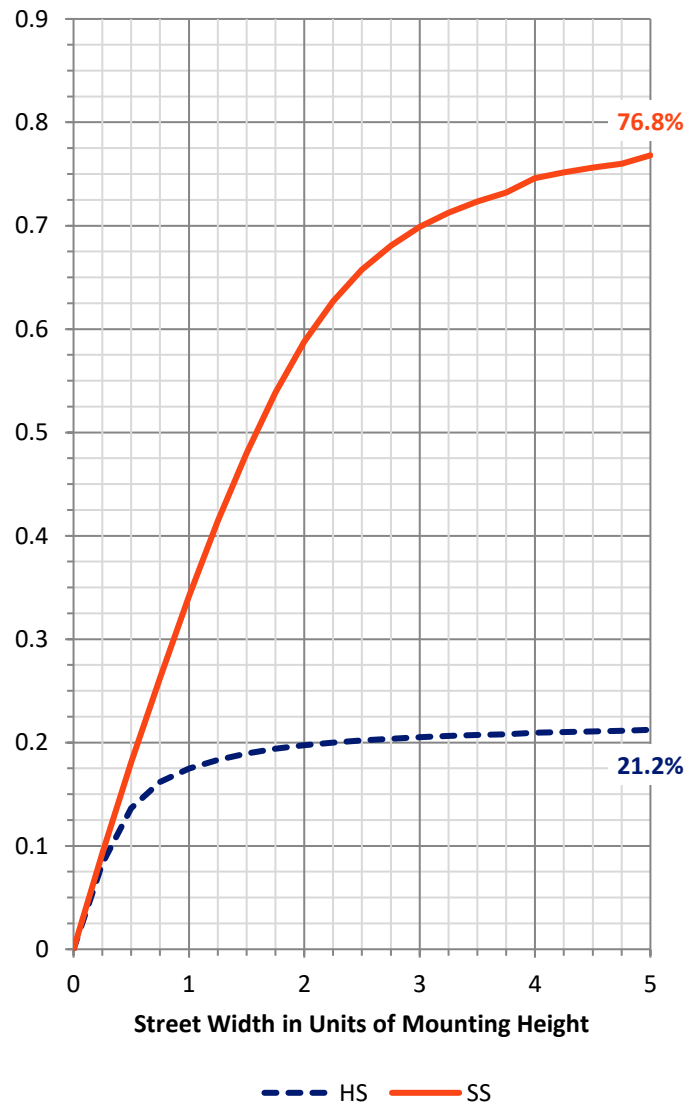
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8452.4	0.0	8452.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	30691.9	0.0	30691.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	39144.2	0.0	39144.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.7	0.9
10°-20°	1155.4	3.0
20°-30°	1973.5	5.0
30°-40°	3144.1	8.0
40°-50°	5452.9	13.9
50°-60°	7904.3	20.2
60°-70°	9968.2	25.5
70°-80°	7386.4	18.9
80°-90°	1787.8	4.6
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°	39144.2	100.0
0°-180°	39144.2	100.0



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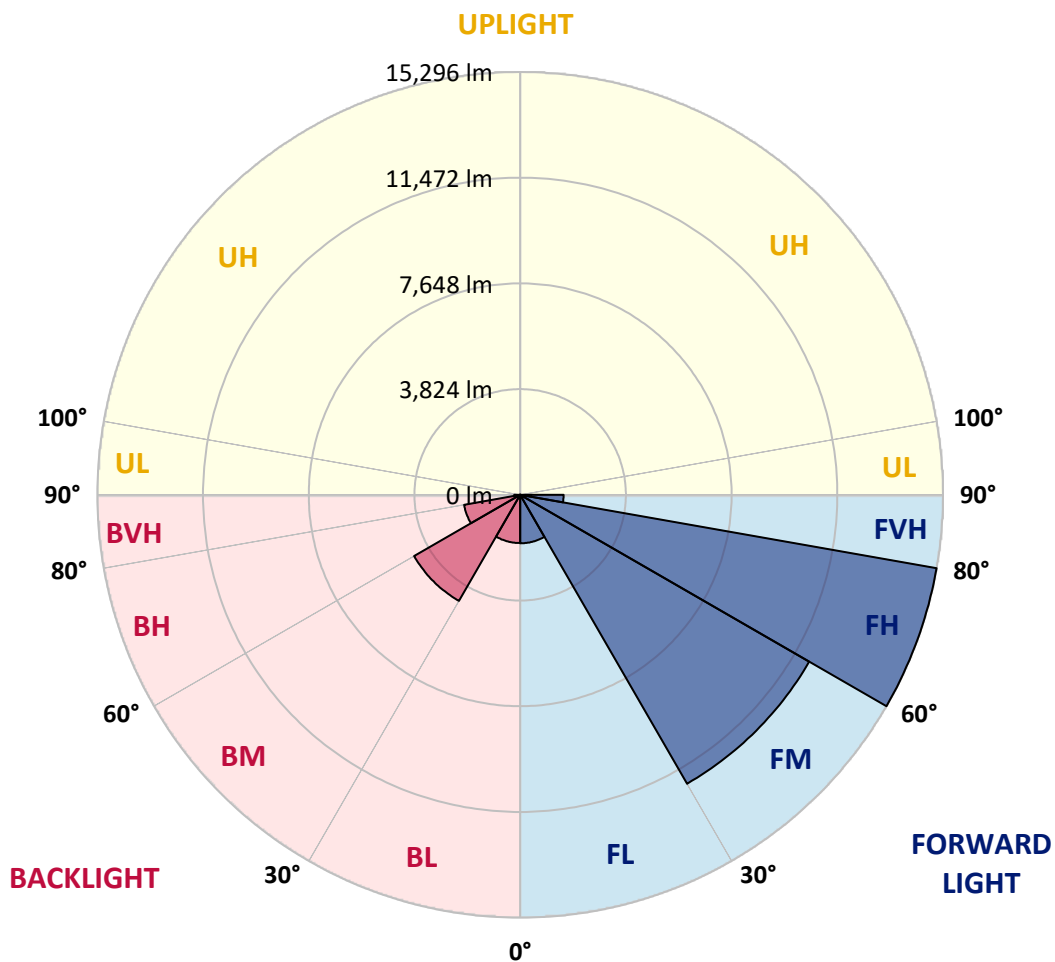
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.8	4.5			
FM	(30°-60°)	12070.4	30.8			
FH	(60°-80°)	15295.5	39.1			G5
FVH	(80°-90°)	1571.1	4.0			G5
BL	(0°-30°)	1745.7	4.5	B3/2500		
BM	(30°-60°)	4430.9	11.3	B3/5000		
BH	(60°-80°)	2059.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	216.7	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3826.2	3836.7	3839.7	3833.7	3839.7	3845.7	3832.2	3830.7	3824.6	3800.7	3803.7
5°	3827.7	3841.2	3842.7	3838.2	3848.7	3854.6	3848.7	3842.7	3836.7	3802.2	3809.7
7.5°	3827.7	3838.2	3841.2	3838.2	3853.2	3863.7	3863.7	3868.2	3868.2	3829.2	3835.2
10°	3814.2	3823.2	3827.7	3835.2	3860.7	3875.7	3884.7	3905.7	3917.7	3890.7	3892.2
12.5°	3752.7	3760.2	3775.2	3818.7	3878.7	3896.7	3922.2	3959.7	3989.7	3989.7	3992.6
15°	3704.7	3712.2	3740.7	3799.2	3890.7	3914.7	3964.2	4027.2	4082.6	4112.6	4136.7
17.5°	3716.8	3725.7	3767.7	3817.2	3908.7	3932.7	4003.1	4094.7	4186.2	4250.6	4298.6
20°	3754.2	3760.2	3808.2	3865.2	3962.6	3979.2	4048.2	4160.6	4288.1	4394.7	4472.7
22.5°	3860.7	3857.7	3896.7	3919.2	4019.7	4034.7	4114.2	4229.6	4394.7	4555.1	4669.2
25°	3949.2	3962.6	3994.2	4012.1	4094.7	4108.2	4207.2	4334.7	4525.1	4732.1	4915.1
27.5°	4046.7	4058.7	4090.2	4130.6	4246.2	4253.7	4322.7	4480.2	4691.6	4945.1	5237.6
30°	4267.2	4265.7	4297.2	4340.6	4496.6	4510.2	4574.6	4736.6	4933.1	5249.6	5602.1
32.5°	4648.1	4645.1	4649.7	4709.7	4879.1	4910.6	4993.1	5207.6	5453.6	5759.5	6151.0
35°	5429.5	5398.1	5338.1	5290.1	5386.1	5422.0	5602.1	5867.5	6307.0	6908.4	7392.9
37.5°	6720.9	6671.4	6469.0	6194.5	6083.5	6079.1	6205.0	6608.5	7292.4	8498.3	8936.3
40°	7958.4	7959.8	7685.4	7313.4	6966.9	6948.9	6876.9	7376.4	8358.8	9990.7	10196.2
42.5°	9131.3	9123.8	8804.3	8463.8	8049.8	7995.9	7785.9	8169.8	9423.8	11219.1	11259.6
45°	10188.7	10164.7	9821.2	9602.3	9246.8	9138.8	8859.8	8981.3	10421.1	12204.5	12062.1
47.5°	11210.1	11186.1	10757.1	10545.7	10233.7	10143.7	9848.3	9902.2	11375.1	13025.0	12711.5
50°	12264.5	12257.0	11636.1	11430.6	11099.2	11061.6	10883.2	10922.2	12371.0	13707.4	13315.9
52.5°	13513.9	13320.4	12623.0	12230.1	11994.6	11993.1	11793.6	11894.1	13472.0	14316.4	13735.9
55°	14854.8	14610.3	13896.3	13331.0	12926.0	12931.9	12621.5	12783.5	14439.3	14860.9	14137.9
57.5°	15811.8	15760.7	15547.8	14982.3	14145.4	14046.4	13569.5	13696.9	15288.3	15424.8	14427.4
60°	16704.1	16921.6	17064.2	16884.2	16462.7	16176.2	14853.3	14662.9	16036.7	15921.3	14578.8
62.5°	17266.6	17379.1	18043.5	18291.0	18952.5	18975.0	17392.6	15832.8	16674.1	16233.2	14646.3
65°	16647.2	16813.6	17914.5	18882.0	20768.8	20876.9	20209.4	17784.1	17182.7	16341.2	14518.8
67.5°	14919.4	15093.3	16416.2	18400.5	21773.7	21847.3	21154.3	19808.9	17436.1	16318.8	14145.4
68°	14476.9	14662.9	16042.8	18219.0	21842.7	21877.3	21191.9	19976.9	17452.6	16293.2	14023.9
70°	12645.5	12828.5	14226.4	17083.7	21569.8	21592.3	20954.9	20153.9	17367.1	16074.2	13224.5
72.5°	9933.7	10118.2	11220.6	14491.8	20198.9	20395.3	20069.9	19649.9	17005.7	15220.8	11339.1
75°	7038.9	7227.9	8375.3	11342.1	17413.6	17959.6	18609.0	18684.0	15652.7	13071.4	8447.3
77.5°	4963.1	5117.6	6110.5	8478.9	14053.9	14760.4	16113.2	16224.2	13108.9	9974.2	4456.1
80°	3221.8	3353.7	4243.2	6214.0	10623.7	11234.1	12720.5	12261.6	9315.8	5423.6	775.4
82.5°	1945.3	2044.3	2702.7	4298.6	7773.8	8180.3	8786.3	7361.4	4322.7	766.4	271.4
85°	1115.9	1183.4	1669.3	2761.3	5477.6	5824.0	5908.0	3695.7	812.9	211.5	152.9
87.5°	571.5	605.9	895.4	1696.4	3236.7	3385.2	2963.8	1322.9	162.0	94.5	76.5
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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3788.7	3799.2	3806.7	3832.2	3859.2	3872.7	3859.2	3880.2	3887.7	3881.7	3872.7
5°	3797.7	3814.2	3826.2	3877.2	3907.2	3929.7	3914.7	3944.7	3955.2	3943.1	3943.1
7.5°	3823.2	3845.7	3865.2	3932.7	3967.2	3997.2	3988.2	4009.2	4018.2	4003.1	4012.1
10°	3890.7	3913.2	3938.7	4022.6	4045.2	4073.7	4057.2	4073.7	4076.7	4066.2	4073.7
12.5°	4007.7	4022.6	4072.1	4157.7	4160.6	4168.2	4133.7	4102.1	4088.7	4069.2	4082.6
15°	4157.7	4184.7	4252.2	4324.2	4304.7	4288.1	4202.7	4100.6	4036.2	3988.2	3985.2
17.5°	4324.2	4372.2	4456.1	4502.7	4457.6	4382.7	4238.6	4066.2	3910.2	3824.6	3797.7
20°	4495.1	4570.2	4663.1	4672.1	4595.6	4451.7	4232.7	3977.7	3719.7	3560.7	3521.7
22.5°	4703.6	4801.1	4885.1	4840.1	4687.1	4475.6	4177.2	3821.7	3467.7	3226.2	3190.3
25°	4979.6	5075.6	5090.6	4958.6	4721.6	4430.7	4049.7	3589.2	3140.8	2840.7	2812.2
27.5°	5312.5	5363.6	5266.1	5020.1	4679.7	4295.7	3832.2	3266.7	2776.3	2515.2	2471.8
30°	5681.6	5663.6	5395.1	5021.6	4556.6	4066.2	3502.2	2900.7	2488.3	2263.3	2221.3
32.5°	6149.5	6031.0	5525.6	4954.1	4354.2	3757.2	3113.8	2608.3	2290.3	2060.9	2020.4
35°	7079.4	6719.4	5702.6	4847.7	4085.7	3386.7	2773.2	2396.9	2120.9	1856.8	1819.3
37.5°	8493.8	7748.4	6022.0	4730.7	3787.2	3007.3	2512.3	2231.8	1987.3	1705.4	1646.9
40°	9734.2	8885.2	6532.0	4621.2	3482.7	2719.3	2362.3	2152.3	1913.9	1628.9	1568.9
42.5°	10686.7	9795.7	7115.4	4490.7	3164.8	2506.3	2299.3	2141.8	1904.9	1628.9	1573.4
45°	11456.1	10547.2	7634.4	4348.1	2857.3	2338.4	2242.3	2122.3	1886.8	1619.8	1567.4
47.5°	12063.6	11108.1	8043.9	4184.7	2537.8	2224.3	2183.8	2054.8	1840.3	1592.9	1540.4
50°	12590.0	11510.1	8273.4	3992.6	2254.3	2134.3	2101.4	1946.8	1747.4	1513.4	1478.9
52.5°	12957.5	11837.1	8360.4	3913.2	2051.9	2032.4	1988.8	1837.3	1646.9	1418.9	1379.9
55°	13233.5	12005.1	8288.3	3731.7	1849.3	1874.9	1855.4	1753.4	1576.4	1360.4	1321.4
57.5°	13374.5	12060.5	8082.9	3047.7	1657.4	1687.4	1700.8	1706.9	1565.9	1376.9	1340.9
60°	13424.0	11973.6	7634.4	2176.3	1451.9	1511.8	1586.9	1609.4	1519.4	1313.9	1283.9
62.5°	13348.9	11747.1	6755.5	1504.4	1295.9	1402.4	1501.3	1495.4	1399.4	1220.9	1180.4
65°	13056.5	11192.1	5137.1	1213.4	1243.4	1352.9	1462.3	1388.9	1295.9	1130.9	1109.9
67.5°	12348.5	10023.7	2881.2	1120.4	1226.9	1324.3	1394.9	1306.4	1202.9	1047.0	1038.0
68°	12138.5	9680.3	2459.8	1114.4	1223.9	1315.4	1376.9	1285.4	1184.9	1033.4	1027.5
70°	10914.6	7910.4	1109.9	1094.9	1206.0	1282.4	1327.4	1226.9	1118.9	986.9	978.0
72.5°	8433.8	4898.6	745.4	1040.9	1160.9	1232.9	1261.4	1166.9	1077.0	930.0	918.0
75°	4999.1	1346.9	706.4	948.0	1084.4	1184.9	1214.9	1120.4	1013.9	844.4	824.9
77.5°	1229.9	486.0	684.0	842.9	1004.9	1105.4	1153.4	1088.9	960.0	760.5	741.0
80°	373.5	387.0	651.0	728.9	904.4	986.9	1015.4	1015.4	887.9	535.5	564.0
82.5°	246.0	310.4	555.0	547.4	718.4	817.4	763.4	766.4	697.4	238.5	279.0
85°	154.5	253.5	375.0	358.5	457.5	500.9	543.0	557.9	490.4	69.0	4.5
87.5°	79.5	108.0	132.0	141.0	181.5	259.5	348.0	341.9	251.9	61.5	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)