

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: P285759

Luminaire Tested: **USSL-XL-C06-D-U-T2-AP-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C06-D-U-T2-AP-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52743.8 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

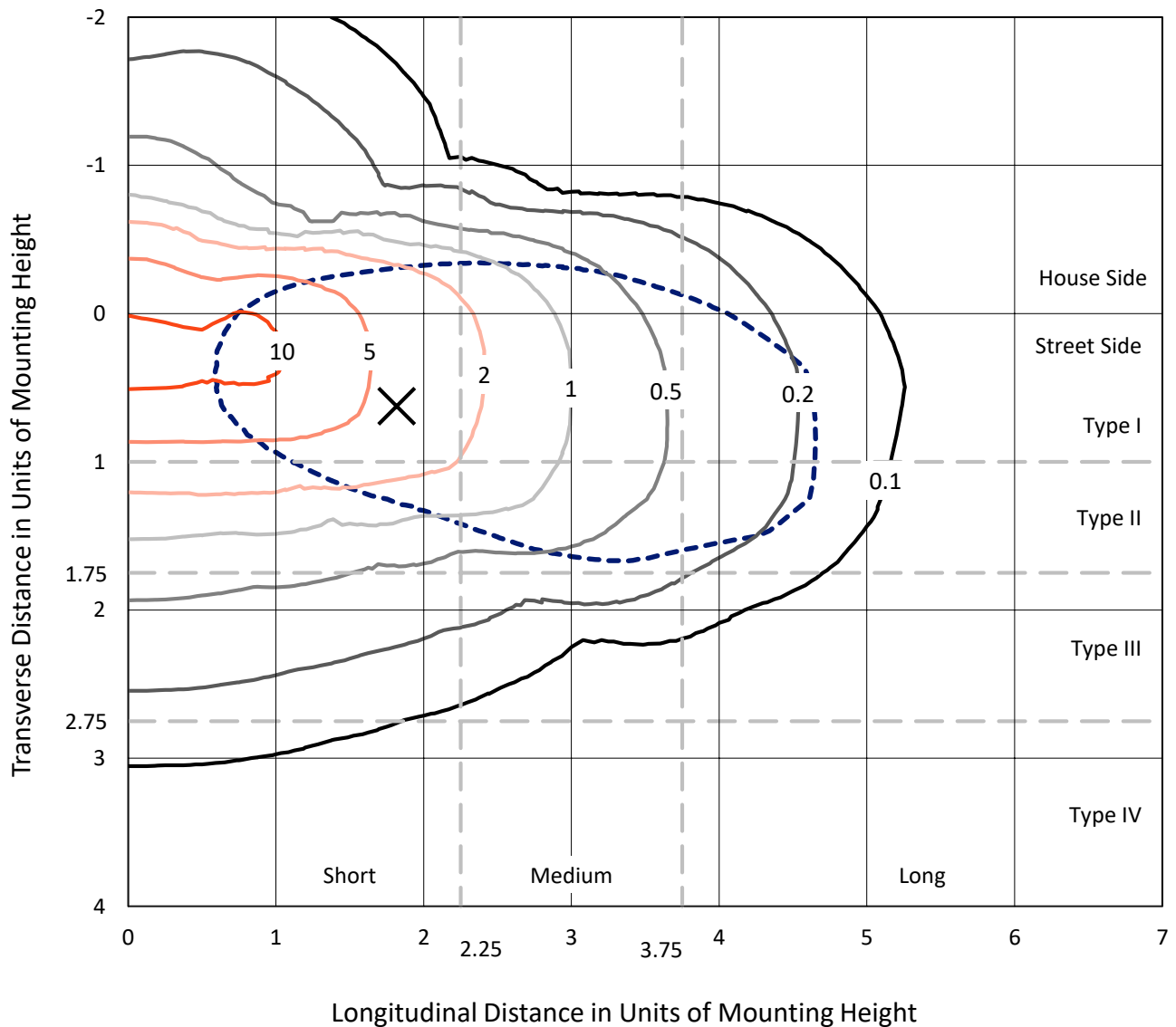
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

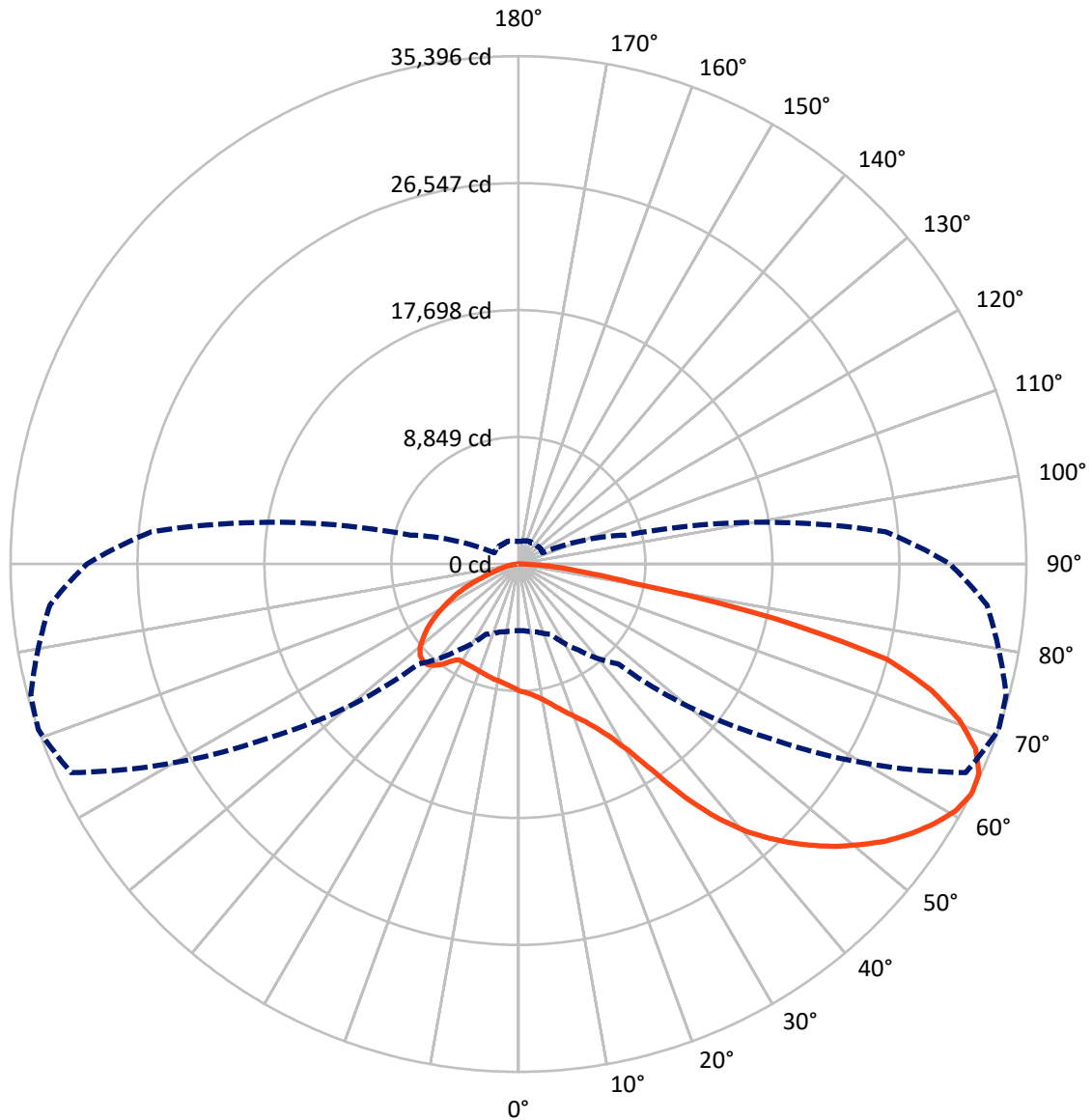
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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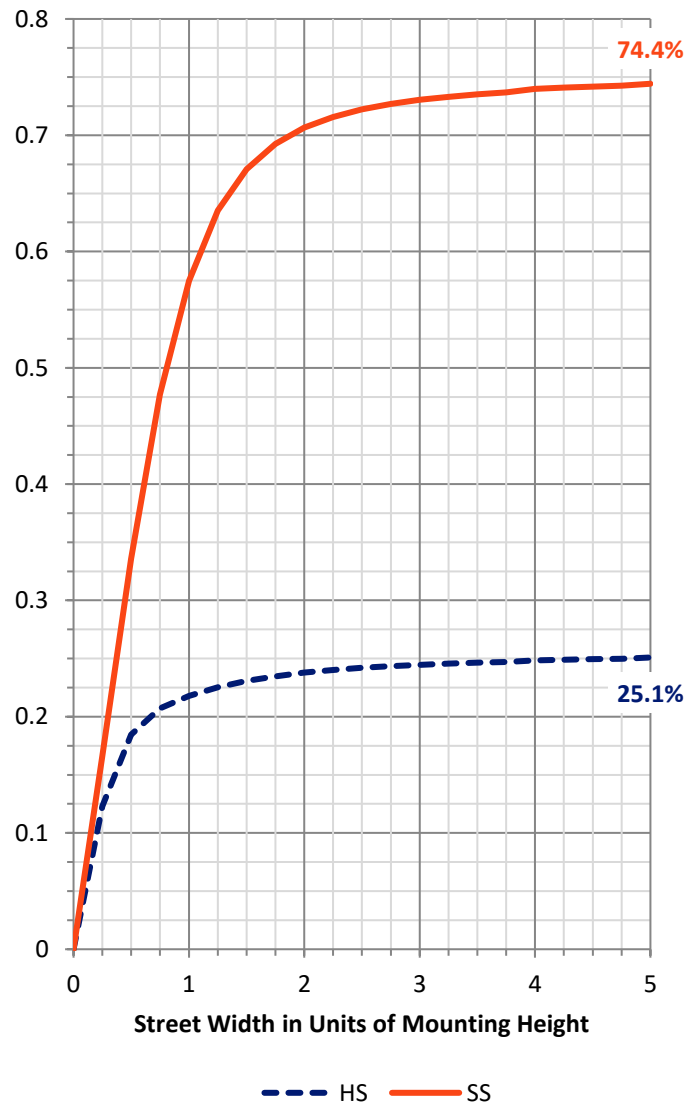
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13469.2	0.0	13469.2
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	39274.6	0.0	39274.6
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	52743.8	0.0	52743.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	851.9	1.6
10°-20°	2607.4	4.9
20°-30°	4420.0	8.4
30°-40°	6661.9	12.6
40°-50°	9152.0	17.4
50°-60°	10640.2	20.2
60°-70°	10498.9	19.9
70°-80°	6713.2	12.7
80°-90°	1198.3	2.3
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°	52743.8	100.0
0°-180°	52743.8	100.0



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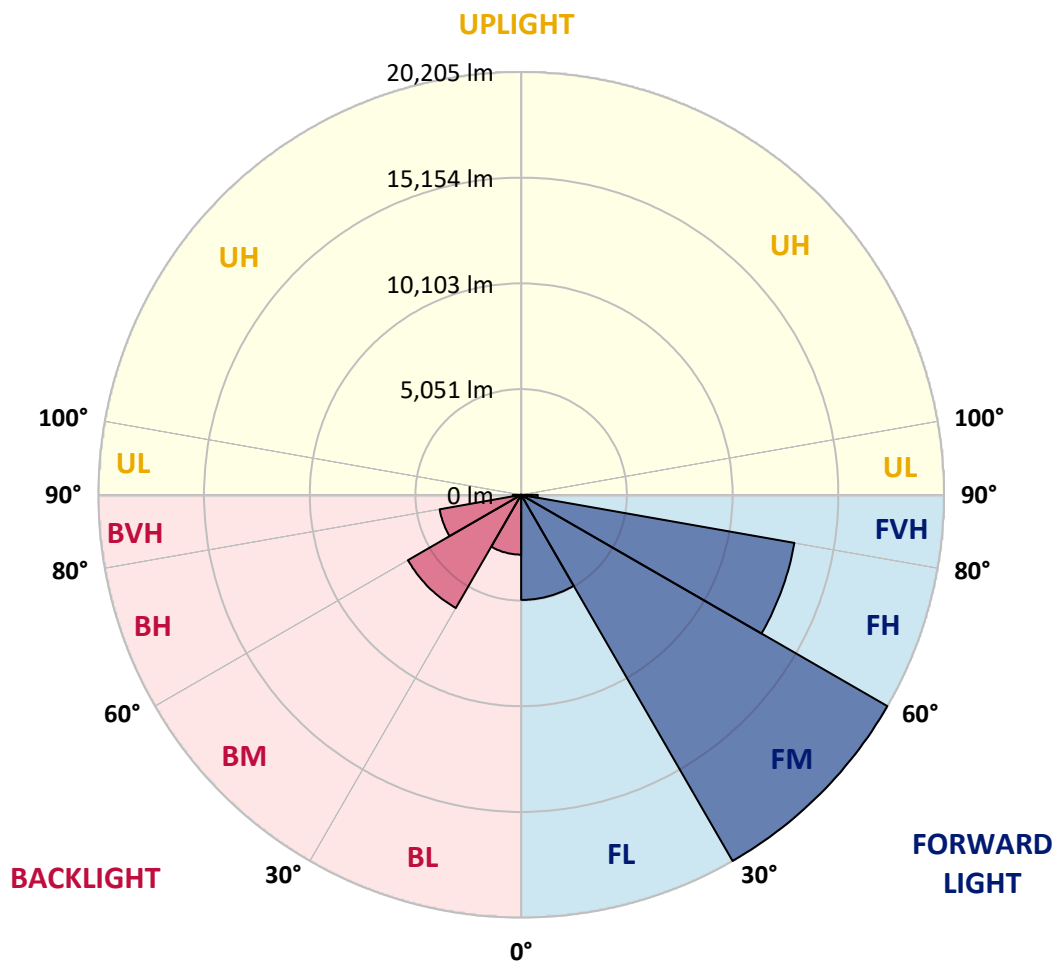
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5020.0	9.5			
FM	(30°-60°)	20205.2	38.3			
FH	(60°-80°)	13257.5	25.1			G5
FVH	(80°-90°)	791.9	1.5			G5
BL	(0°-30°)	2859.3	5.4	B4/5000		
BM	(30°-60°)	6248.9	11.8	B4/8500		
BH	(60°-80°)	3954.5	7.5	B4/5000		G4/5000
BVH	(80°-90°)	406.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5
2.5°	9427.0	9408.8	9386.8	9348.6	9304.4	9252.2	9198.0	9075.5	8948.9	8908.8	8822.5
5°	9945.0	9910.9	9882.8	9846.7	9762.3	9655.9	9513.3	9312.5	9115.7	9053.5	8874.6
7.5°	10403.0	10364.9	10314.6	10266.4	10174.1	10037.5	9844.7	9589.7	9352.7	9244.2	8953.0
10°	10810.7	10774.5	10748.4	10694.2	10619.9	10455.2	10226.2	9906.9	9631.8	9481.2	9077.5
12.5°	11262.5	11232.4	11178.2	11115.9	11017.6	10858.9	10629.9	10282.5	9989.2	9806.5	9268.3
15°	11722.4	11702.4	11605.9	11569.8	11459.3	11276.6	11073.7	10716.3	10417.0	10190.1	9541.4
17.5°	12130.1	12116.0	12055.8	12013.6	11923.2	11718.5	11509.6	11182.2	10876.9	10587.8	9844.7
20°	12391.2	12411.3	12399.2	12391.2	12385.1	12216.5	12009.6	11672.3	11365.0	11077.8	10170.1
22.5°	12634.2	12642.3	12674.4	12748.7	12855.1	12780.8	12557.9	12246.6	11933.3	11589.9	10591.8
25°	12710.5	12716.6	12841.1	13066.0	13365.2	13397.3	13214.6	13005.7	12664.3	12327.0	11170.2
27.5°	12772.7	12788.9	12945.5	13339.2	13865.3	14017.9	13951.7	13883.4	13642.4	13288.9	11947.4
30°	12754.7	12758.8	13017.8	13523.9	14263.0	14674.6	14775.0	15104.4	15044.1	14803.2	13248.8
32.5°	12423.3	12393.2	12768.7	13527.9	14574.3	15333.4	15797.3	16735.2	17090.6	17154.9	15851.5
35°	11748.6	11748.6	12310.8	13371.3	14799.2	15984.0	16962.1	18719.3	19918.3	19950.4	18325.8
37.5°	11186.2	11222.3	11853.0	13078.0	14903.6	16644.8	18297.6	21145.3	22410.6	22302.2	20392.3
40°	10625.9	10670.1	11316.8	12678.4	14841.4	17215.1	19593.0	23459.0	24511.2	24262.3	22153.5
42.5°	10005.4	10039.5	10646.0	12110.0	14626.4	17630.8	20984.7	25433.0	26270.6	25967.3	23760.2
45°	9384.8	9443.0	9989.2	11346.9	14206.7	17879.9	22177.7	27224.5	27903.4	27553.9	25222.2
47.5°	8471.0	8695.9	9332.5	10593.8	13445.6	17861.9	23236.0	28833.1	29409.6	29038.0	26539.7
50°	6613.4	6745.8	8149.7	9910.9	12441.4	17502.3	24071.5	30269.0	30763.1	30433.8	27871.1
52.5°	6006.8	6043.0	6496.9	9073.5	11328.8	16791.4	24690.1	31596.6	32078.5	31701.0	29076.1
55°	5695.6	5715.6	5938.5	7418.7	10384.9	15482.0	24971.1	32823.6	33187.2	32761.4	30096.4
57.5°	5271.8	5334.1	5645.3	6324.1	9418.9	13630.3	24607.7	33787.6	34151.1	33689.2	31072.3
60°	4958.5	4996.7	5263.8	5789.9	8300.3	11465.4	23350.4	34484.5	34974.5	34548.7	31978.1
62.5°	4649.3	4671.3	4896.2	5402.3	7338.3	9854.7	21002.8	34404.1	35396.3	35183.4	32781.4
63°	4584.9	4605.1	4830.0	5332.0	7195.8	9525.3	20508.7	34303.8	35396.3	35247.6	32881.9
65°	4299.8	4323.9	4546.8	5004.6	6599.3	8698.0	18303.6	33679.2	35269.8	35340.0	33024.5
67.5°	3876.1	3916.2	4101.0	4500.5	5703.5	7689.8	15032.1	33026.5	34362.0	34512.6	32235.2
70°	3376.0	3383.9	3606.9	3942.3	4807.9	6541.1	11587.9	31046.3	32588.6	32654.9	30389.6
72.5°	2843.7	2865.9	3066.7	3349.8	3988.5	5416.4	8284.3	27373.1	30110.4	30484.0	27298.8
75°	2482.3	2500.3	2669.0	2867.9	3311.7	4269.6	5540.9	19960.5	26545.7	26961.4	23613.6
77.5°	2078.6	2090.7	2267.3	2404.0	2691.1	3221.4	3825.8	10531.5	18283.6	20496.7	18448.2
80°	1480.2	1482.2	1658.8	1765.3	1950.1	1980.2	2432.0	5605.2	8045.3	10397.0	12192.3
82.5°	321.4	461.9	694.9	873.6	978.1	823.4	1196.9	3070.6	4444.4	5306.0	6609.3
85°	138.5	190.8	367.5	403.7	269.1	297.2	486.0	1636.8	2540.5	3024.5	3402.1
87.5°	26.1	34.1	94.4	126.6	78.3	82.4	98.4	524.1	889.7	1044.3	1164.8
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°	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5	8842.5
2.5°	8770.2	8746.2	8665.8	8611.6	8577.5	8533.3	8477.1	8402.7	8380.6	8328.4	8370.6
5°	8776.3	8712.0	8543.3	8420.8	8310.4	8213.9	8101.5	7995.0	7954.9	7884.6	7912.7
7.5°	8804.4	8695.9	8434.9	8248.0	8083.4	7952.9	7796.2	7665.7	7619.5	7539.2	7553.2
10°	8878.7	8709.9	8350.5	8123.6	7896.7	7705.8	7523.1	7344.4	7264.0	7193.8	7227.9
12.5°	9009.3	8762.2	8312.4	8021.1	7719.9	7486.9	7219.8	6990.9	6878.4	6788.0	6818.1
15°	9206.1	8862.7	8268.2	7874.5	7511.1	7207.7	6880.4	6591.2	6464.8	6394.4	6428.6
17.5°	9406.8	9009.3	8242.1	7695.8	7260.0	6866.4	6551.0	6277.9	6046.9	5994.8	6014.8
20°	9643.8	9159.9	8262.1	7507.1	6964.8	6498.9	6125.3	5942.5	5643.3	5538.9	5544.9
22.5°	9957.1	9394.8	8280.3	7322.2	6613.4	6093.2	5657.4	5476.6	5189.5	5004.6	5012.7
25°	10407.1	9686.0	8322.4	7151.6	6267.9	5647.4	5143.3	4842.0	4663.2	4428.3	4430.3
27.5°	11023.6	10085.7	8406.7	6990.9	5900.4	5135.2	4518.7	4181.3	4024.7	3870.0	3849.9
30°	12075.9	10746.4	8531.2	6814.2	5464.6	4516.7	3859.9	3564.8	3432.2	3305.6	3291.6
32.5°	14297.1	12351.0	8704.0	6591.2	4994.7	3813.7	3277.5	3044.6	2857.8	2733.3	2751.4
35°	16576.5	14361.3	9435.0	6326.1	4464.4	3199.2	2839.7	2550.5	2311.5	2215.2	2221.1
37.5°	18528.5	16182.9	10533.5	6039.0	3878.1	2803.5	2399.9	2120.8	1930.0	1881.7	1942.1
40°	20153.3	17679.0	11415.1	5735.6	3261.5	2470.2	1956.0	1803.4	1680.9	1666.9	1721.1
42.5°	21689.6	19030.6	12156.2	5386.3	2687.1	2040.4	1624.7	1660.9	1642.7	1640.8	1648.8
45°	23085.4	20283.8	12570.0	4866.1	2281.4	1670.9	1534.3	1670.9	1701.0	1697.0	1675.0
47.5°	24356.6	21428.5	12851.1	4113.0	1932.0	1566.4	1584.6	1677.0	1733.1	1743.2	1719.1
50°	25676.1	22547.1	12895.3	3201.2	1793.5	1648.8	1628.7	1616.7	1719.1	1717.1	1719.1
52.5°	26855.0	23507.1	12413.3	2488.3	1865.7	1735.2	1664.9	1594.6	1652.8	1654.8	1614.7
55°	27742.7	24294.4	11587.9	2181.1	1925.9	1807.4	1769.3	1628.7	1592.6	1568.4	1582.5
57.5°	28658.4	24997.3	10467.3	2042.4	1944.1	1823.6	1861.7	1636.8	1582.5	1472.1	1464.0
60°	29540.0	25565.6	9139.7	1950.1	1921.9	1815.5	1803.4	1699.0	1594.6	1429.9	1373.6
62.5°	30076.3	25690.2	7782.2	1859.7	1879.7	1803.4	1739.2	1745.2	1672.9	1582.5	1570.5
63°	30138.6	25648.0	7523.1	1837.5	1869.8	1801.4	1739.2	1749.3	1672.9	1618.7	1620.7
65°	30060.2	25158.0	6506.9	1743.2	1833.6	1769.3	1713.1	1662.9	1538.3	1572.5	1612.6
67.5°	29180.5	23555.3	5002.6	1590.6	1753.3	1717.1	1634.8	1510.3	1397.8	1375.6	1399.8
70°	26804.8	20930.5	3544.6	1355.6	1608.6	1650.8	1614.7	1427.9	1315.4	1295.3	1343.5
72.5°	23507.1	18173.0	2434.1	1084.5	1347.6	1536.3	1526.3	1375.6	1275.3	1217.0	1241.1
75°	19787.8	14658.5	1701.0	913.7	1038.3	1383.7	1448.0	1331.6	1255.2	1201.0	1192.9
77.5°	15235.0	11071.7	1337.5	781.3	857.6	1120.6	1331.6	1321.5	1415.8	1670.9	1614.7
80°	10378.9	7362.4	964.0	586.4	682.8	785.3	1146.7	1363.7	1791.4	1052.4	1032.2
82.5°	6033.0	4325.9	602.4	389.6	407.6	534.2	718.9	1440.0	1199.0	474.0	598.5
85°	2914.1	1883.8	301.2	269.1	186.8	200.9	333.3	1341.5	849.5	210.9	42.2
87.5°	929.9	457.9	32.1	24.1	28.1	40.2	158.7	819.4	500.1	180.7	26.1
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)