

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-BZ-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-BZ-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49763 lumens  
Efficiency: N/A  
Efficacy: 143.8 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

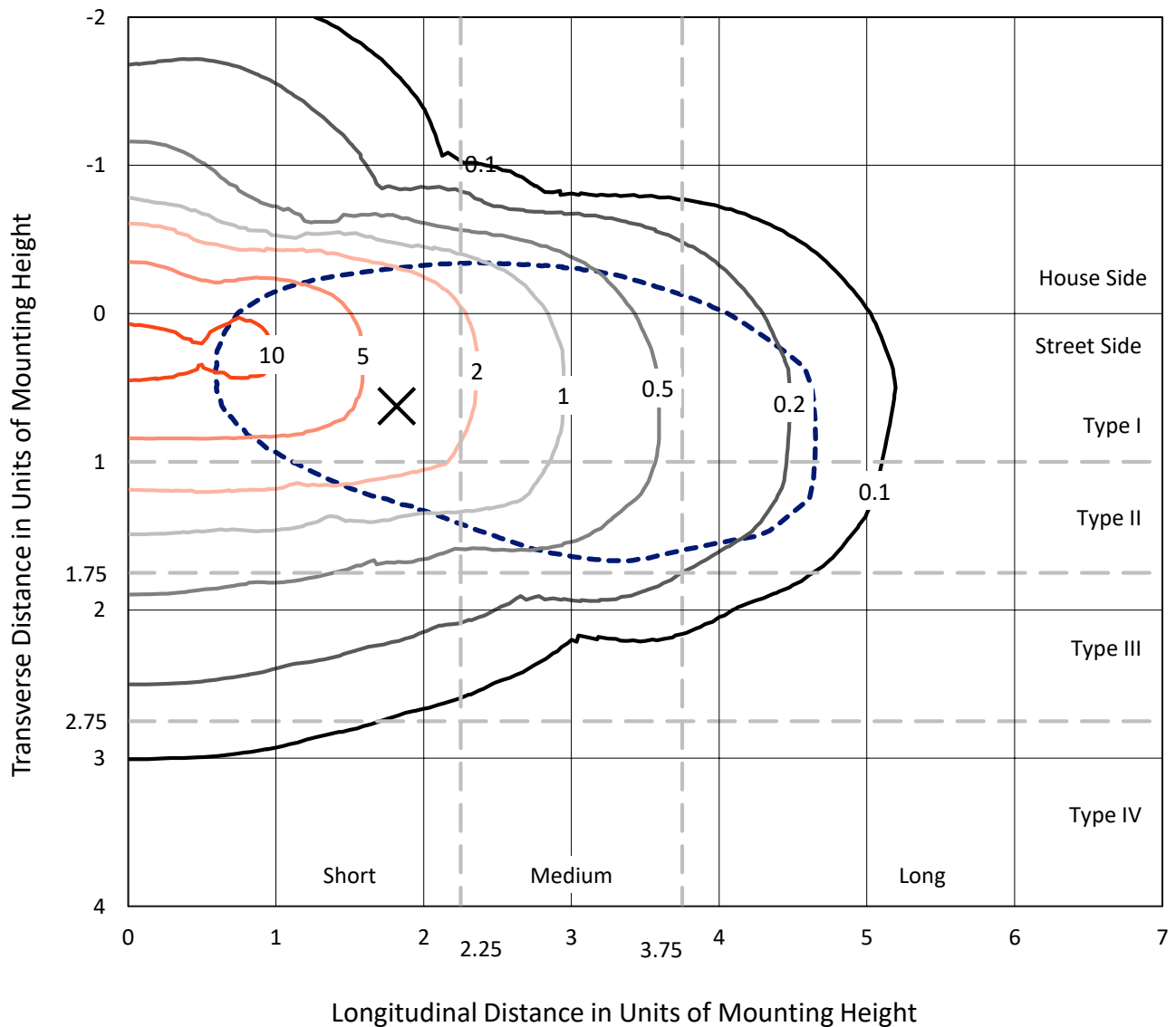
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

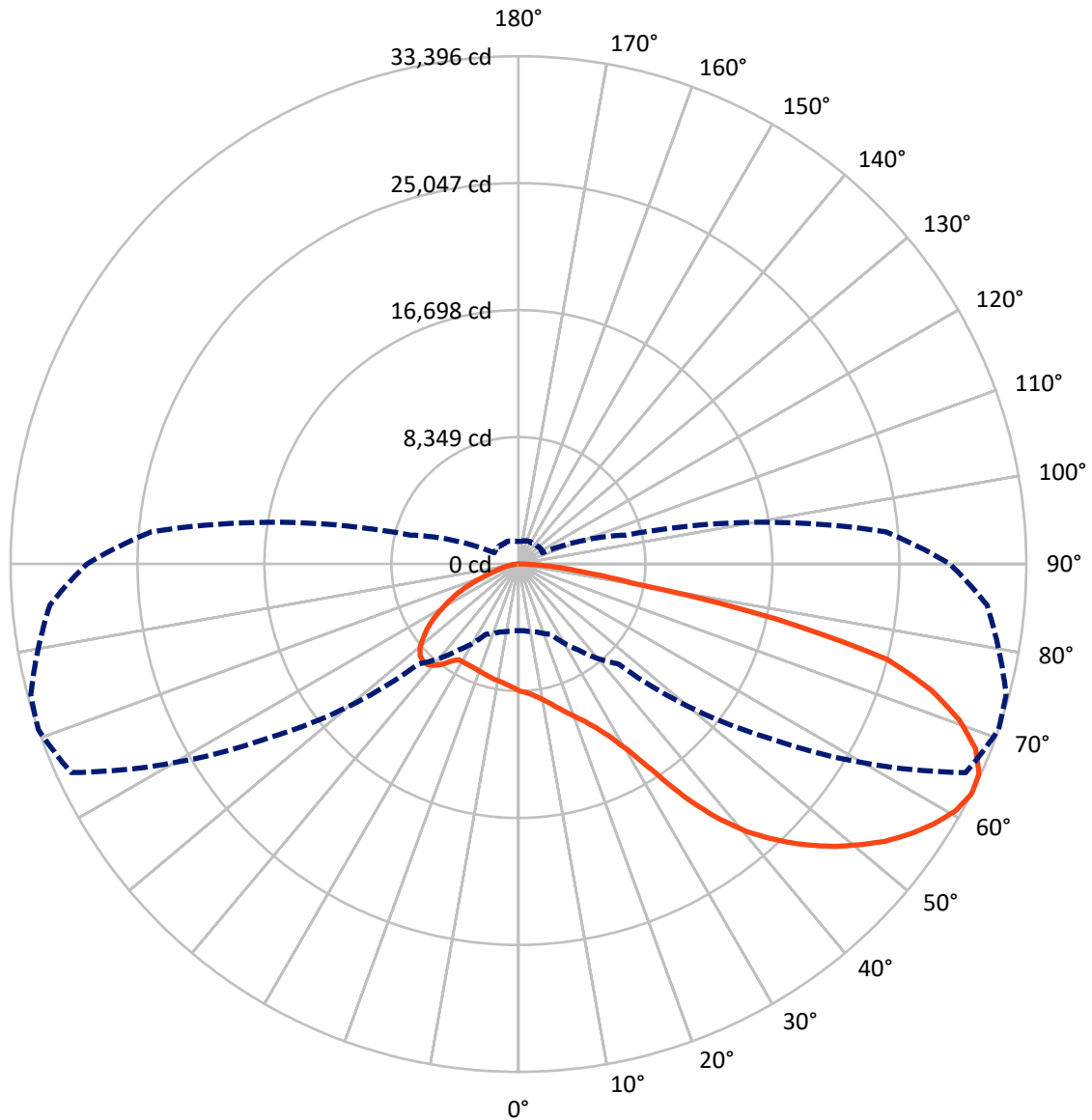
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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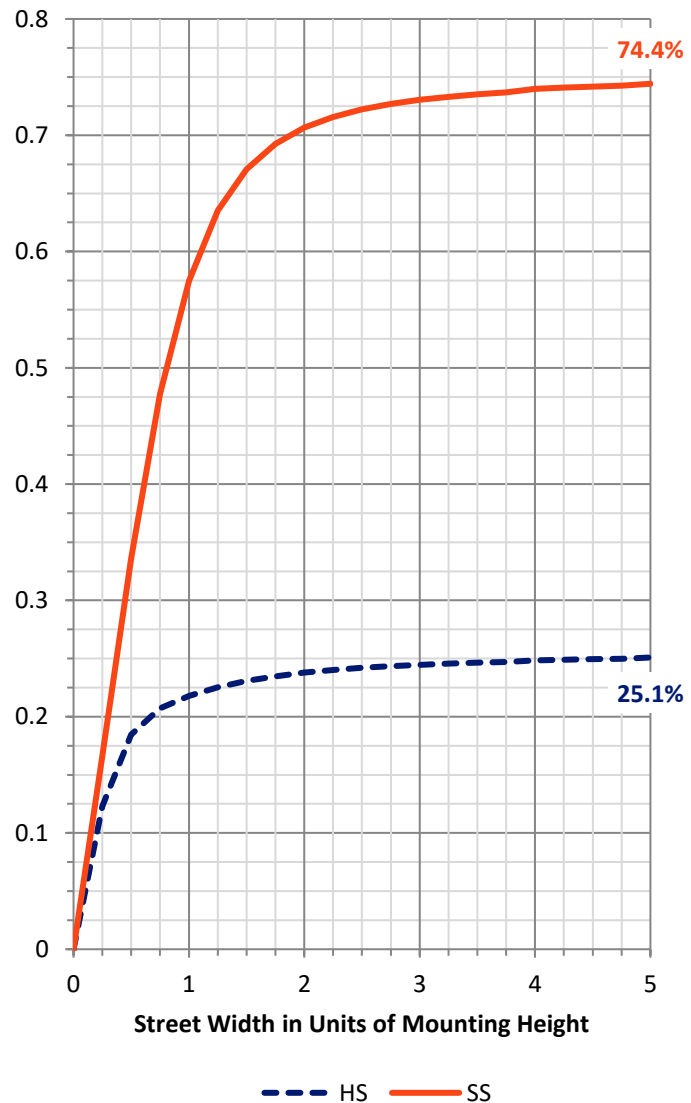
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12708.0	0.0	12708.0
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	37055.0	0.0	37055.0
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	49763.0	0.0	49763.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	803.8	1.6
10°-20°	2460.0	4.9
20°-30°	4170.2	8.4
30°-40°	6285.4	12.6
40°-50°	8634.8	17.4
50°-60°	10038.9	20.2
60°-70°	9905.5	19.9
70°-80°	6333.8	12.7
80°-90°	1130.6	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°	49763.0	100.0
0°-180°	49763.0	100.0



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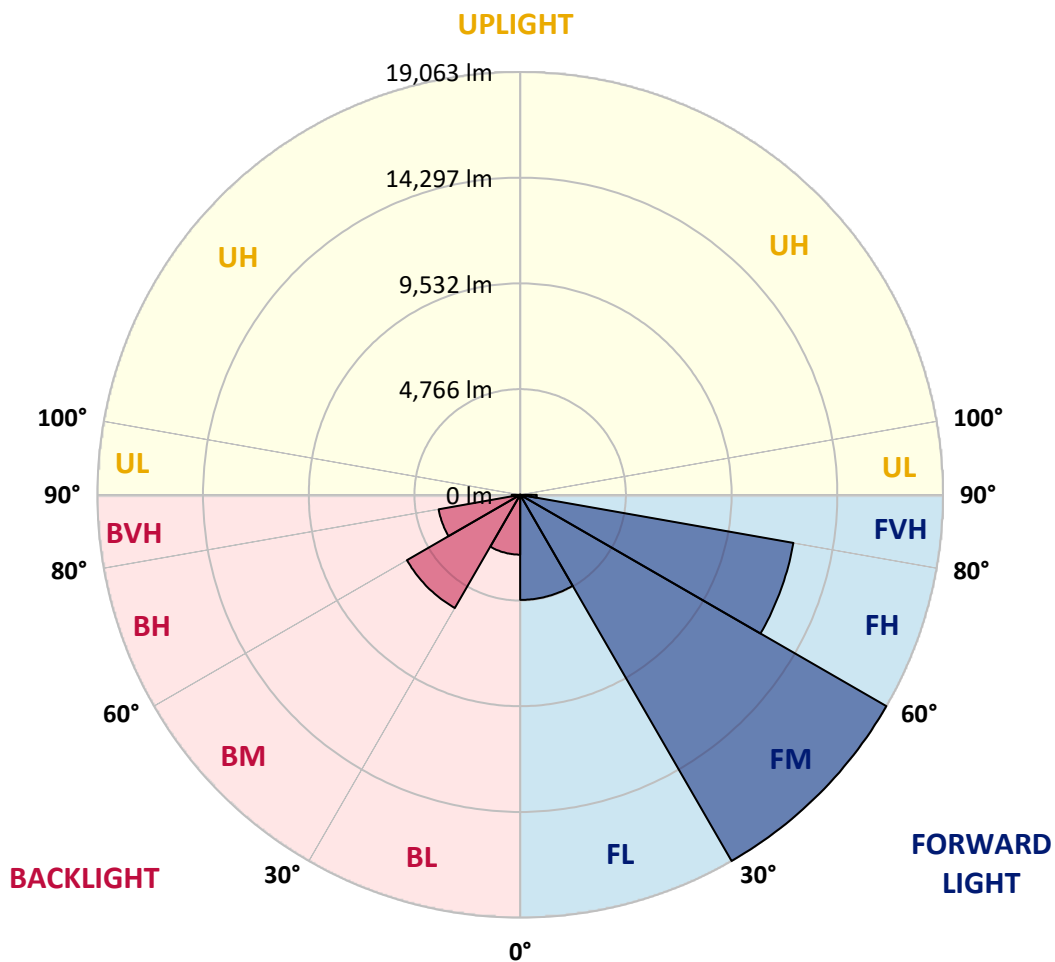
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4736.3	9.5			
FM	(30°-60°)	19063.3	38.3			
FH	(60°-80°)	12508.3	25.1			G5
FVH	(80°-90°)	747.1	1.5			G4/750
BL	(0°-30°)	2697.8	5.4	B4/5000		
BM	(30°-60°)	5895.8	11.8	B4/8500		
BH	(60°-80°)	3731.0	7.5	B4/5000		G4/5000
BVH	(80°-90°)	383.5	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°	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8
2.5°	8894.2	8877.1	8856.3	8820.3	8778.6	8729.3	8678.2	8562.6	8443.2	8405.3	8323.9
5°	9383.0	9350.8	9324.3	9290.2	9210.6	9110.2	8975.7	8786.2	8600.5	8541.8	8373.1
7.5°	9815.1	9779.1	9731.7	9686.2	9599.1	9470.2	9288.3	9047.7	8824.1	8721.8	8447.0
10°	10199.7	10165.6	10141.0	10089.8	10019.7	9864.3	9648.3	9347.0	9087.5	8945.4	8564.5
12.5°	10626.0	10597.6	10546.5	10487.7	10394.9	10245.2	10029.2	9701.4	9424.7	9252.3	8744.5
15°	11059.9	11041.0	10950.0	10915.9	10811.7	10639.3	10447.9	10110.7	9828.3	9614.2	9002.2
17.5°	11444.6	11431.3	11374.5	11334.7	11249.4	11056.2	10859.1	10550.2	10262.2	9989.4	9288.3
20°	11690.9	11709.9	11698.5	11690.9	11685.2	11526.1	11330.9	11012.6	10722.7	10451.7	9595.3
22.5°	11920.2	11927.8	11958.1	12028.2	12128.6	12058.5	11848.2	11554.5	11258.9	10934.9	9993.2
25°	11992.2	11997.9	12115.4	12327.6	12609.9	12640.2	12467.8	12270.7	11948.6	11630.3	10538.9
27.5°	12050.9	12066.1	12213.9	12585.3	13081.7	13225.7	13163.2	13098.8	12871.4	12537.9	11272.2
30°	12033.9	12037.7	12282.1	12759.6	13456.9	13845.3	13940.0	14250.8	14193.9	13966.6	12500.0
32.5°	11721.2	11692.8	12047.1	12763.4	13750.6	14466.8	14904.5	15789.4	16124.7	16185.4	14955.7
35°	11084.6	11084.6	11615.1	12615.6	13962.8	15080.7	16003.5	17661.4	18792.6	18822.9	17290.1
37.5°	10554.0	10588.1	11183.1	12338.9	14061.3	15704.1	17263.5	19950.3	21144.1	21041.8	19239.8
40°	10025.4	10067.1	10677.2	11961.9	14002.6	16242.2	18485.7	22133.2	23126.0	22891.1	20901.5
42.5°	9439.9	9472.1	10044.3	11425.6	13799.8	16634.4	19798.8	23995.7	24785.9	24499.8	22417.4
45°	8854.4	8909.3	9424.7	10705.6	13403.8	16869.4	20924.3	25685.9	26326.4	25996.7	23796.8
47.5°	7992.3	8204.5	8805.1	9995.1	12685.7	16852.4	21922.8	27203.6	27747.5	27396.9	25039.8
50°	6239.6	6364.6	7689.1	9350.8	11738.3	16513.2	22711.1	28558.4	29024.5	28713.8	26296.0
52.5°	5667.3	5701.5	6129.7	8560.7	10688.6	15842.4	23294.7	29810.9	30265.6	29909.4	27432.9
55°	5373.7	5392.6	5602.9	6999.4	9798.0	14607.0	23559.9	30968.6	31311.6	30909.9	28395.5
57.5°	4973.9	5032.6	5326.3	5966.7	8886.6	12860.0	23217.0	31878.1	32221.1	31785.3	29316.3
60°	4678.3	4714.3	4966.3	5462.7	7831.2	10817.4	22030.8	32535.6	32997.9	32596.2	30170.9
62.5°	4386.5	4407.3	4619.5	5097.0	6923.6	9297.8	19815.8	32459.8	33395.9	33195.0	30928.8
63°	4325.8	4344.8	4557.0	5030.7	6789.1	8987.0	19349.7	32365.1	33395.9	33255.6	31023.6
65°	4056.8	4079.5	4289.8	4721.8	6226.3	8206.4	17269.2	31775.8	33276.5	33342.8	31158.1
67.5°	3657.0	3694.9	3869.2	4246.2	5381.2	7255.2	14182.6	31160.0	32420.0	32562.1	30413.4
70°	3185.2	3192.7	3403.1	3719.5	4536.2	6171.4	10933.0	29291.7	30746.9	30809.4	28672.1
72.5°	2683.0	2703.9	2893.4	3160.5	3763.1	5110.3	7816.1	25826.1	28408.7	28761.2	25756.0
75°	2342.0	2359.0	2518.2	2705.8	3124.5	4028.3	5227.8	18832.4	25045.5	25437.7	22279.1
77.5°	1961.1	1972.5	2139.2	2268.1	2539.0	3039.3	3609.6	9936.3	17250.3	19338.3	17405.6
80°	1396.5	1398.4	1565.1	1665.5	1839.9	1868.3	2294.6	5288.4	7590.6	9809.4	11503.3
82.5°	303.2	435.8	655.6	824.2	922.8	776.9	1129.3	2897.1	4193.2	5006.1	6235.8
85°	130.7	180.0	346.7	380.9	253.9	280.4	458.5	1544.3	2396.9	2853.6	3209.8
87.5°	24.6	32.2	89.1	119.4	73.9	77.7	92.8	494.5	839.4	985.3	1099.0
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°	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8	8342.8
2.5°	8274.6	8251.9	8176.1	8124.9	8092.7	8051.0	7998.0	7927.8	7907.0	7857.7	7897.5
5°	8280.3	8219.6	8060.5	7944.9	7840.7	7749.7	7643.6	7543.2	7505.3	7439.0	7465.5
7.5°	8306.8	8204.5	7958.2	7781.9	7626.6	7503.4	7355.6	7232.5	7188.9	7113.1	7126.3
10°	8376.9	8217.7	7878.6	7664.5	7450.4	7270.3	7097.9	6929.3	6853.5	6787.2	6819.4
12.5°	8500.1	8267.0	7842.6	7567.8	7283.6	7063.8	6811.8	6595.8	6489.7	6404.4	6432.8
15°	8685.8	8361.8	7800.9	7429.5	7086.6	6800.4	6491.6	6218.7	6099.4	6033.0	6065.3
17.5°	8875.2	8500.1	7776.3	7260.9	6849.7	6478.3	6180.8	5923.1	5705.2	5656.0	5674.9
20°	9098.8	8642.2	7795.2	7082.8	6571.2	6131.6	5779.1	5606.7	5324.4	5225.9	5231.5
22.5°	9394.4	8863.9	7812.3	6908.4	6239.6	5748.8	5337.7	5167.1	4896.2	4721.8	4729.4
25°	9818.9	9138.6	7852.1	6747.4	5913.7	5328.2	4852.6	4568.4	4399.7	4178.0	4179.9
27.5°	10400.6	9515.7	7931.6	6595.8	5566.9	4845.0	4263.3	3945.0	3797.2	3651.3	3632.3
30°	11393.4	10139.1	8049.1	6429.1	5155.8	4261.4	3641.8	3363.3	3238.2	3118.8	3105.6
32.5°	13489.1	11653.0	8212.1	6218.7	4712.4	3598.2	3092.3	2872.5	2696.3	2578.8	2595.9
35°	15639.7	13549.7	8901.8	5968.6	4212.1	3018.4	2679.2	2406.4	2180.9	2090.0	2095.6
37.5°	17481.4	15268.3	9938.2	5697.7	3658.9	2645.1	2264.3	2000.9	1820.9	1775.4	1832.3
40°	19014.3	16679.9	10770.0	5411.5	3077.2	2330.6	1845.5	1701.5	1585.9	1572.7	1623.8
42.5°	20463.8	17955.1	11469.2	5081.9	2535.2	1925.1	1532.9	1567.0	1549.9	1548.1	1555.6
45°	21780.7	19137.5	11859.6	4591.1	2152.5	1576.5	1447.6	1576.5	1604.9	1601.1	1580.3
47.5°	22980.1	20217.5	12124.8	3880.6	1822.8	1477.9	1495.0	1582.2	1635.2	1644.7	1621.9
50°	24225.0	21272.9	12166.5	3020.3	1692.1	1555.6	1536.7	1525.3	1621.9	1620.1	1621.9
52.5°	25337.3	22178.6	11711.8	2347.7	1760.3	1637.1	1570.8	1504.5	1559.4	1561.3	1523.4
55°	26174.8	22921.4	10933.0	2057.8	1817.1	1705.3	1669.3	1536.7	1502.6	1479.8	1493.1
57.5°	27038.8	23584.6	9875.7	1927.0	1834.2	1720.5	1756.5	1544.3	1493.1	1388.9	1381.3
60°	27870.6	24120.8	8623.2	1839.9	1813.3	1712.9	1701.5	1603.0	1504.5	1349.1	1296.0
62.5°	28376.5	24238.3	7342.4	1754.6	1773.5	1701.5	1640.9	1646.6	1578.4	1493.1	1481.7
63°	28435.3	24198.5	7097.9	1733.7	1764.1	1699.6	1640.9	1650.4	1578.4	1527.2	1529.1
65°	28361.4	23736.2	6139.2	1644.7	1730.0	1669.3	1616.3	1568.9	1451.4	1483.6	1521.5
67.5°	27531.4	22224.1	4719.9	1500.7	1654.2	1620.1	1542.4	1424.9	1318.8	1297.9	1320.7
70°	25289.9	19747.6	3344.3	1279.0	1517.7	1557.5	1523.4	1347.2	1241.1	1222.1	1267.6
72.5°	22178.6	17146.0	2296.5	1023.2	1271.4	1449.5	1440.0	1297.9	1203.2	1148.2	1171.0
75°	18669.5	13830.1	1604.9	862.1	979.6	1305.5	1366.2	1256.3	1184.3	1133.1	1125.5
77.5°	14374.0	10446.0	1261.9	737.1	809.1	1057.3	1256.3	1246.8	1335.8	1576.5	1523.4
80°	9792.3	6946.3	909.5	553.3	644.2	740.9	1081.9	1286.6	1690.2	992.9	973.9
82.5°	5692.0	4081.4	568.4	367.6	384.6	504.0	678.3	1358.6	1131.2	447.2	564.7
85°	2749.4	1777.3	284.2	253.9	176.2	189.5	314.5	1265.7	801.5	199.0	39.8
87.5°	877.3	432.0	30.3	22.7	26.5	37.9	149.7	773.1	471.8	170.5	24.6
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)