

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: P285829

Luminaire Tested: **USSL-XL-C06-D-U-T4-AP-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285829  
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-C06-D-U-T4-AP-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50543.4 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

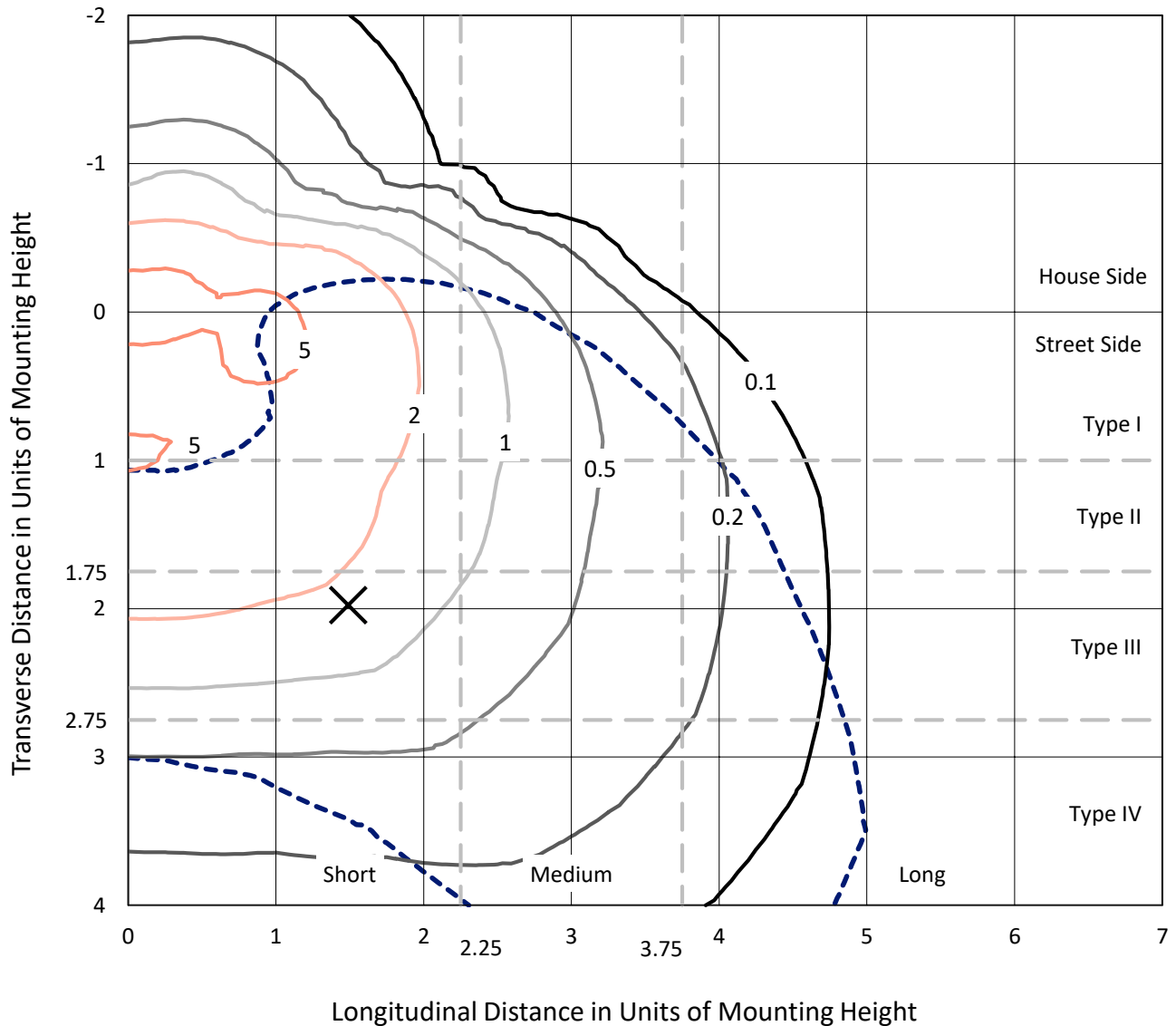
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

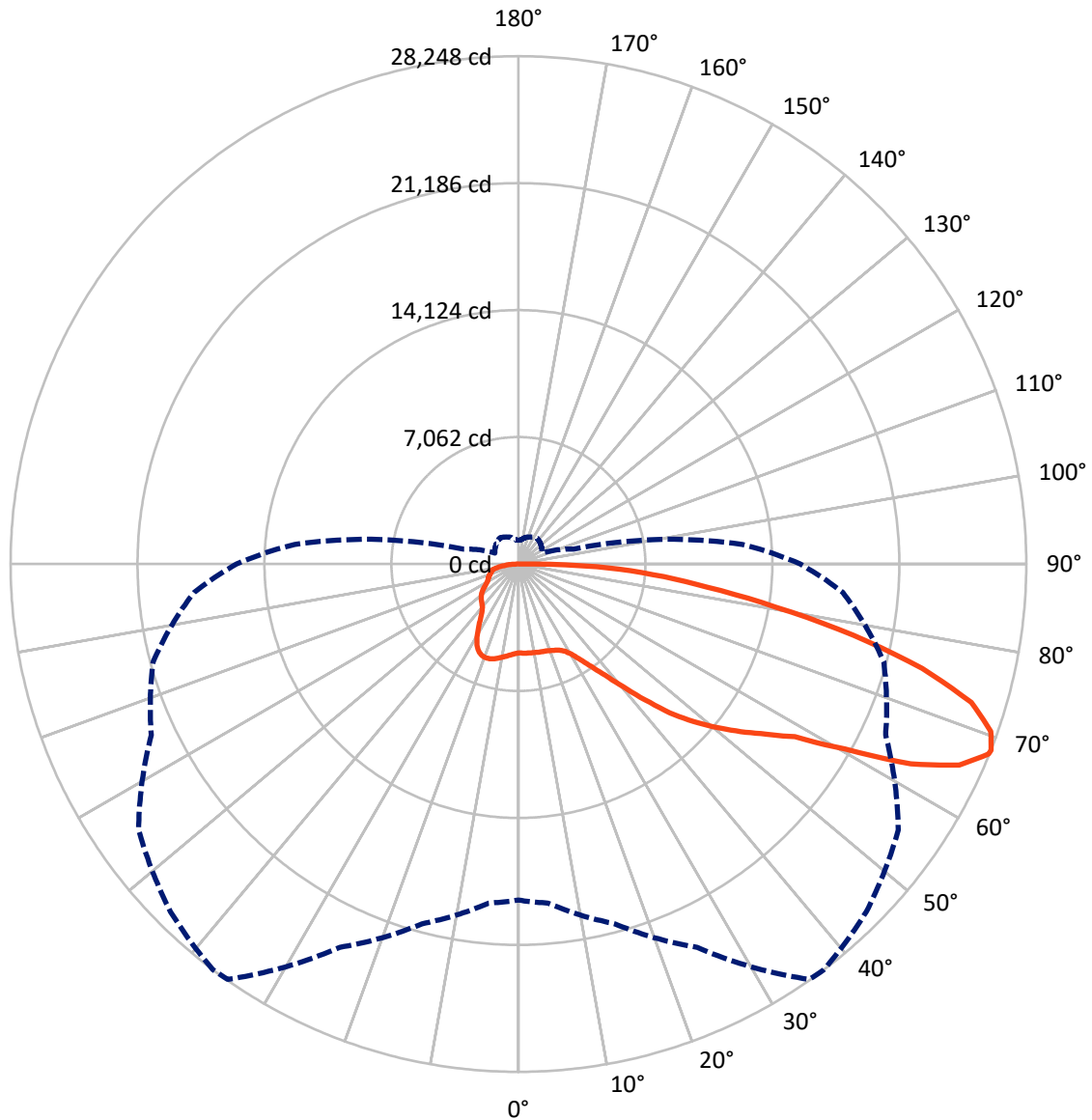
✕ Max cd  
 - - - 1/2 Max cd



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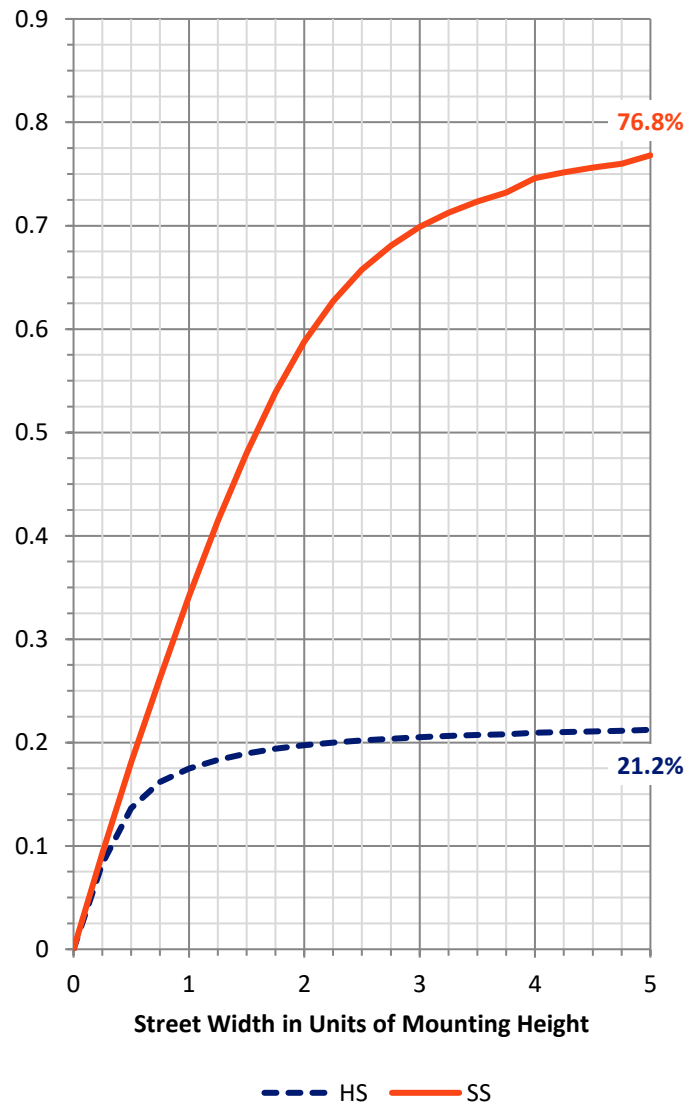
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10913.8	0.0	10913.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	39629.7	0.0	39629.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	50543.4	0.0	50543.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.0	0.9
10°-20°	1491.8	3.0
20°-30°	2548.2	5.0
30°-40°	4059.6	8.0
40°-50°	7040.9	13.9
50°-60°	10206.1	20.2
60°-70°	12871.0	25.5
70°-80°	9537.3	18.9
80°-90°	2308.5	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°	50543.4	100.0
0°-180°	50543.4	100.0



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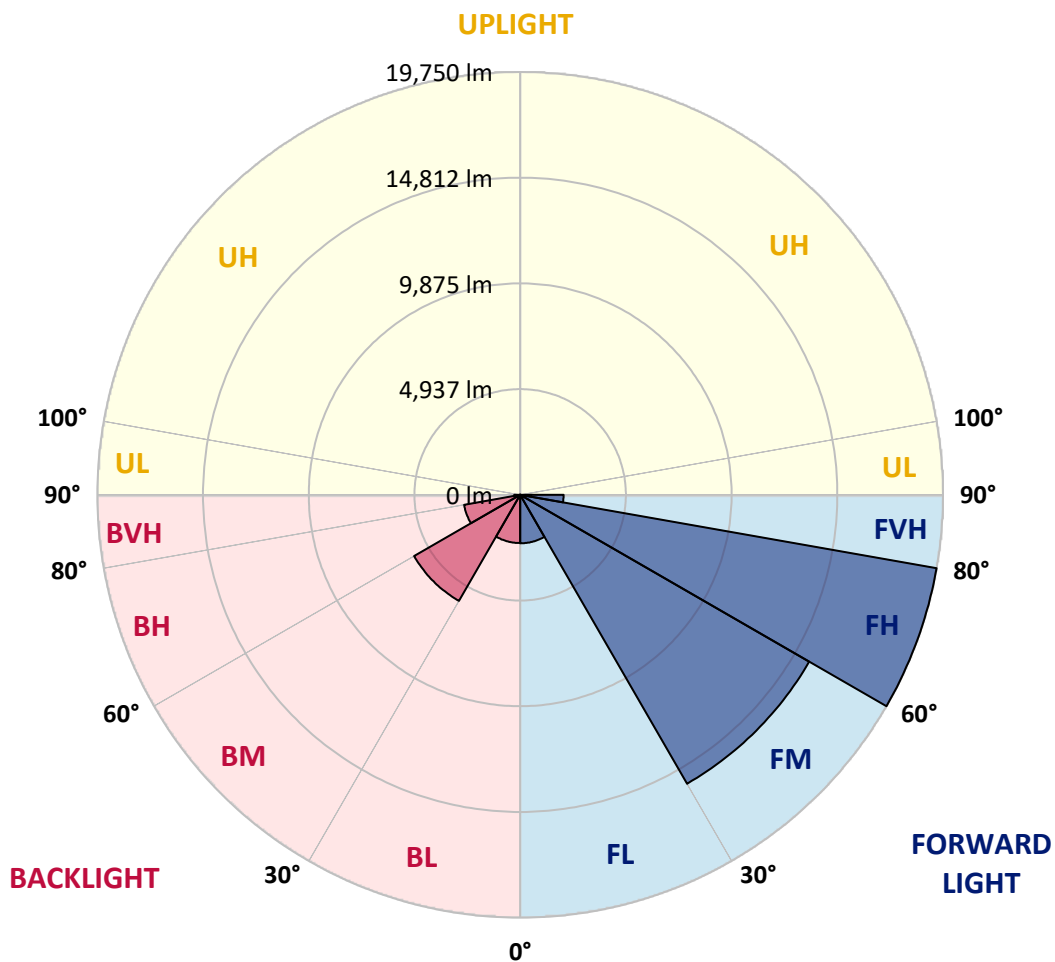
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2265.8	4.5			
FM	(30°-60°)	15585.4	30.8			
FH	(60°-80°)	19749.8	39.1			G5
FVH	(80°-90°)	2028.7	4.0			G5
BL	(0°-30°)	2254.1	4.5	B3/2500		
BM	(30°-60°)	5721.3	11.3	B4/8500		
BH	(60°-80°)	2658.6	5.3	B4/5000		G4/5000
BVH	(80°-90°)	279.8	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5
2.5°	4940.4	4954.0	4957.9	4950.2	4957.9	4965.6	4948.1	4946.2	4938.5	4907.5	4911.4
5°	4942.3	4959.8	4961.7	4955.9	4969.4	4977.2	4969.4	4961.7	4954.0	4909.5	4919.1
7.5°	4942.3	4955.9	4959.8	4955.9	4975.3	4988.8	4988.8	4994.7	4994.7	4944.3	4952.1
10°	4924.9	4936.6	4942.3	4952.1	4984.9	5004.3	5016.0	5043.1	5058.6	5023.7	5025.6
12.5°	4845.5	4855.2	4874.6	4930.8	5008.2	5031.5	5064.4	5112.7	5151.5	5151.5	5155.4
15°	4783.5	4793.3	4830.1	4905.5	5023.7	5054.7	5118.6	5200.0	5271.6	5310.3	5341.4
17.5°	4799.0	4810.7	4864.9	4928.9	5046.9	5078.0	5168.9	5287.1	5405.3	5488.5	5550.5
20°	4847.5	4855.2	4917.2	4990.8	5116.7	5138.0	5227.0	5372.3	5536.9	5674.4	5775.1
22.5°	4984.9	4981.1	5031.5	5060.5	5190.2	5209.6	5312.2	5461.3	5674.4	5881.6	6028.8
25°	5099.3	5116.7	5157.4	5180.6	5287.1	5304.5	5432.3	5596.9	5842.9	6110.2	6346.5
27.5°	5225.1	5240.6	5281.3	5333.5	5482.7	5492.4	5581.4	5784.8	6057.9	6385.2	6762.8
30°	5509.8	5507.9	5548.6	5604.8	5806.1	5823.5	5906.8	6115.9	6369.7	6778.3	7233.4
32.5°	6001.7	5997.9	6003.7	6081.1	6299.9	6340.6	6447.2	6724.1	7041.7	7436.8	7942.3
35°	7010.7	6970.0	6892.6	6830.6	6954.5	7001.1	7233.4	7576.3	8143.6	8920.2	9545.8
37.5°	8678.1	8614.2	8352.9	7998.4	7855.1	7849.3	8012.0	8532.9	9416.0	10973.1	11538.6
40°	10275.9	10277.9	9923.4	9443.2	8995.8	8972.6	8879.6	9524.5	10793.1	12900.1	13165.4
42.5°	11790.4	11780.7	11368.2	10928.6	10394.1	10324.4	10053.3	10549.0	12168.1	14486.3	14538.5
45°	13155.8	13124.7	12681.3	12398.5	11939.6	11800.1	11439.8	11596.8	13456.0	15758.6	15574.6
47.5°	14474.6	14443.7	13889.8	13616.6	13213.9	13097.6	12716.2	12785.9	14687.7	16818.0	16413.2
50°	15836.1	15826.4	15024.6	14759.3	14331.3	14282.9	14052.5	14102.8	15973.6	17699.2	17193.7
52.5°	17449.3	17199.5	16298.9	15791.6	15487.5	15485.6	15228.0	15357.7	17395.1	18485.4	17735.9
55°	19180.7	18865.1	17943.2	17213.1	16690.1	16697.9	16297.0	16506.1	18644.3	19188.4	18255.0
57.5°	20416.3	20350.5	20075.5	19345.3	18264.6	18136.9	17521.0	17685.6	19740.4	19916.7	18628.8
60°	21568.6	21849.4	22033.4	21801.0	21256.8	20886.9	19178.8	18932.8	20706.8	20557.7	18824.4
62.5°	22294.9	22440.1	23298.1	23617.6	24471.7	24500.8	22457.6	20443.5	21529.9	20960.5	18911.5
65°	21495.0	21710.0	23131.5	24380.7	26817.0	26956.4	26094.6	22963.1	22186.5	21100.0	18746.9
67.5°	19264.0	19488.6	21196.7	23758.9	28114.6	28209.5	27314.7	25577.5	22513.8	21070.9	18264.6
68°	18692.7	18932.8	20714.6	23524.7	28203.6	28248.1	27363.1	25794.5	22535.1	21038.0	18107.8
70°	16328.0	16564.3	18369.2	22058.6	27851.2	27880.2	27057.1	26023.0	22424.6	20755.2	17075.5
72.5°	12826.5	13064.8	14488.2	18712.0	26081.1	26334.7	25914.4	25372.2	21957.8	19653.3	14641.1
75°	9088.7	9332.7	10814.4	14645.1	22484.6	23189.6	24028.1	24125.0	20211.0	16878.1	10907.3
77.5°	6408.4	6607.9	7890.0	10947.9	18146.5	19058.7	20805.5	20948.9	16926.4	12878.8	5753.8
80°	4160.0	4330.3	5478.8	8023.5	13717.3	14505.6	16424.8	15832.3	12028.6	7003.0	1001.3
82.5°	2511.9	2639.7	3489.8	5550.5	10037.7	10562.5	11345.0	9505.2	5581.4	989.6	350.5
85°	1440.8	1528.1	2155.5	3565.4	7072.7	7520.1	7628.5	4772.0	1049.6	273.0	197.6
87.5°	737.9	782.4	1156.1	2190.4	4179.3	4371.0	3826.9	1708.1	209.1	122.0	98.8
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°	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5	4938.5
2.5°	4892.0	4905.5	4915.3	4948.1	4983.0	5000.5	4983.0	5010.1	5019.8	5012.1	5000.5
5°	4903.6	4924.9	4940.4	5006.2	5045.0	5074.1	5054.7	5093.5	5107.0	5091.4	5091.4
7.5°	4936.6	4965.6	4990.8	5078.0	5122.5	5161.2	5149.6	5176.7	5188.3	5168.9	5180.6
10°	5023.7	5052.8	5085.7	5194.1	5223.2	5260.0	5238.7	5260.0	5263.9	5250.3	5260.0
12.5°	5174.7	5194.1	5258.1	5368.4	5372.3	5382.0	5337.4	5296.7	5279.4	5254.1	5271.6
15°	5368.4	5403.3	5490.4	5583.4	5558.2	5536.9	5426.6	5294.8	5211.5	5149.6	5145.7
17.5°	5583.4	5645.3	5753.8	5813.9	5755.8	5658.9	5473.0	5250.3	5048.8	4938.5	4903.6
20°	5804.2	5901.0	6021.1	6032.7	5934.0	5748.0	5465.3	5136.1	4802.9	4597.6	4547.3
22.5°	6073.3	6199.2	6307.7	6249.6	6052.0	5779.0	5393.6	4934.6	4477.5	4165.7	4119.3
25°	6429.7	6553.7	6573.1	6402.6	6096.7	5720.9	5229.0	4634.4	4055.4	3668.0	3631.2
27.5°	6859.7	6925.5	6799.6	6482.0	6042.4	5546.6	4948.1	4218.1	3584.8	3247.7	3191.6
30°	7336.1	7312.9	6966.2	6483.9	5883.6	5250.3	4522.1	3745.5	3212.9	2922.5	2868.2
32.5°	7940.3	7787.3	7134.7	6396.8	5622.1	4851.4	4020.5	3367.8	2957.3	2661.0	2608.7
35°	9141.0	8676.2	7363.2	6259.3	5275.4	4372.9	3580.9	3094.8	2738.5	2397.6	2349.2
37.5°	10967.3	10004.8	7775.7	6108.2	4890.1	3883.0	3243.9	2881.8	2566.1	2201.9	2126.5
40°	12568.9	11472.8	8434.2	5966.8	4496.9	3511.1	3050.3	2779.2	2471.2	2103.3	2025.8
42.5°	13798.7	12648.3	9187.5	5798.4	4086.3	3236.2	2968.9	2765.6	2459.6	2103.3	2031.5
45°	14792.3	13618.7	9857.6	5614.4	3689.3	3019.2	2895.3	2740.4	2436.3	2091.6	2023.8
47.5°	15576.6	14342.9	10386.3	5403.3	3276.8	2872.1	2819.8	2653.2	2376.3	2056.7	1988.9
50°	16256.3	14861.9	10682.6	5155.4	2910.8	2755.8	2713.2	2513.8	2256.2	1954.1	1909.5
52.5°	16730.8	15284.2	10795.0	5052.8	2649.3	2624.2	2568.0	2372.4	2126.5	1832.0	1781.7
55°	17087.2	15501.0	10702.0	4818.4	2388.0	2420.8	2395.7	2263.9	2035.4	1756.6	1706.2
57.5°	17269.3	15572.7	10436.7	3935.3	2140.0	2178.7	2196.2	2204.0	2021.9	1777.9	1731.3
60°	17333.2	15460.3	9857.6	2810.1	1874.6	1952.1	2049.0	2078.0	1961.9	1696.5	1657.8
62.5°	17236.3	15167.9	8722.8	1942.5	1673.3	1810.7	1938.6	1930.8	1806.9	1576.5	1524.1
65°	16858.7	14451.4	6633.1	1566.7	1605.5	1746.8	1888.2	1793.4	1673.3	1460.2	1433.1
67.5°	15944.5	12942.8	3720.4	1446.7	1584.2	1710.0	1801.1	1686.8	1553.2	1351.8	1340.1
68°	15673.4	12499.2	3176.1	1438.9	1580.3	1698.5	1777.9	1659.7	1530.0	1334.3	1326.6
70°	14093.1	10213.9	1433.1	1413.8	1557.1	1655.9	1714.0	1584.2	1444.7	1274.3	1262.7
72.5°	10889.8	6325.2	962.5	1344.1	1499.0	1592.0	1628.7	1506.8	1390.5	1200.8	1185.3
75°	6454.9	1739.1	912.1	1224.0	1400.2	1530.0	1568.7	1446.7	1309.2	1090.3	1065.2
77.5°	1588.0	627.5	883.1	1088.4	1297.5	1427.4	1489.3	1406.1	1239.4	981.9	956.7
80°	482.3	499.6	840.5	941.2	1167.8	1274.3	1311.1	1311.1	1146.5	691.4	728.2
82.5°	317.7	400.9	716.6	706.8	927.6	1055.4	985.8	989.6	900.6	307.9	360.3
85°	199.5	327.3	484.2	462.9	590.7	646.9	701.1	720.4	633.3	89.1	5.8
87.5°	102.6	139.5	170.4	182.1	234.3	335.0	449.3	441.6	325.4	79.4	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)