

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: P285793

Luminaire Tested: **USSL-XL-C069-D-U-T3-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)  
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-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41124 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B4 - 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

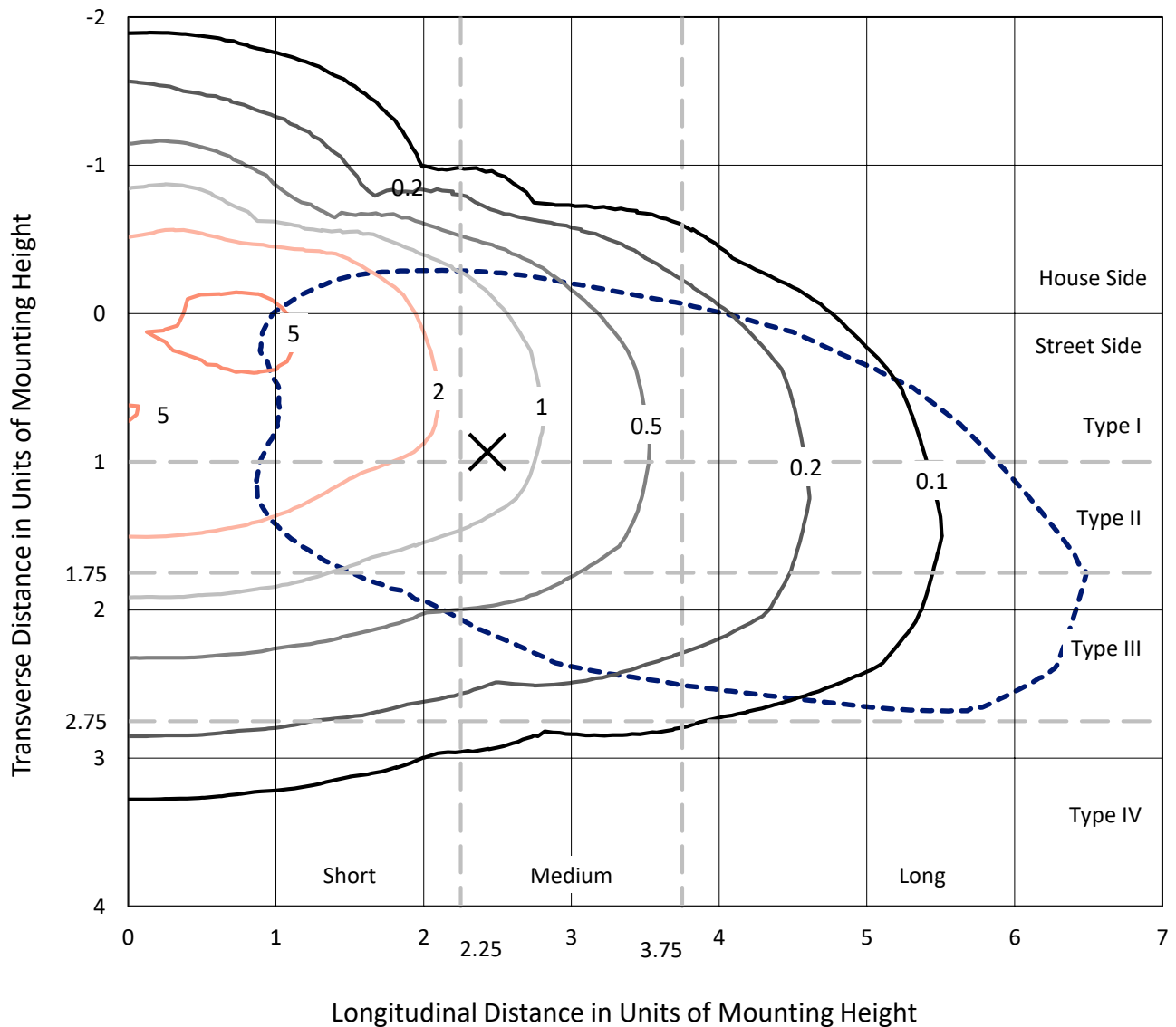


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

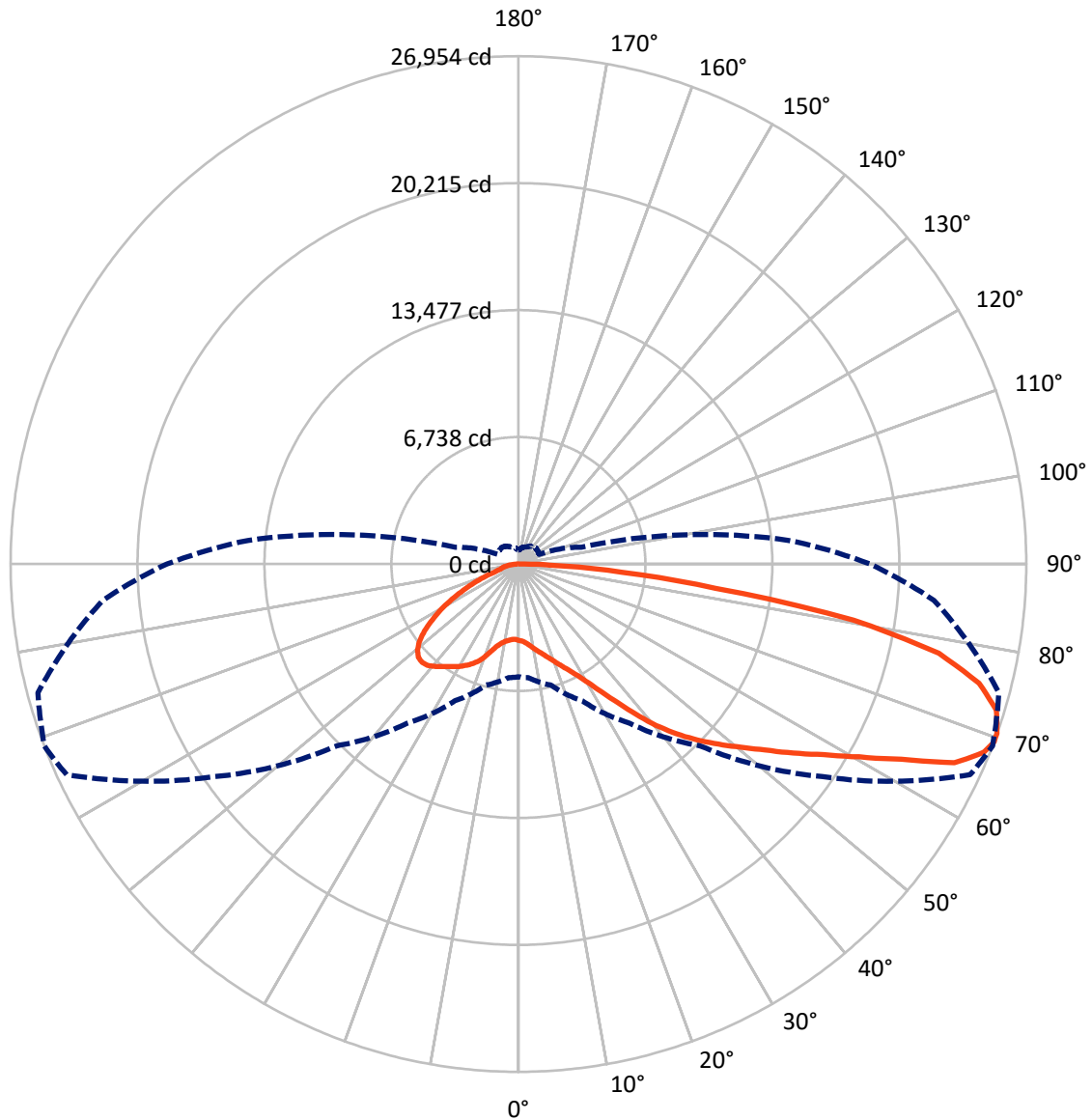


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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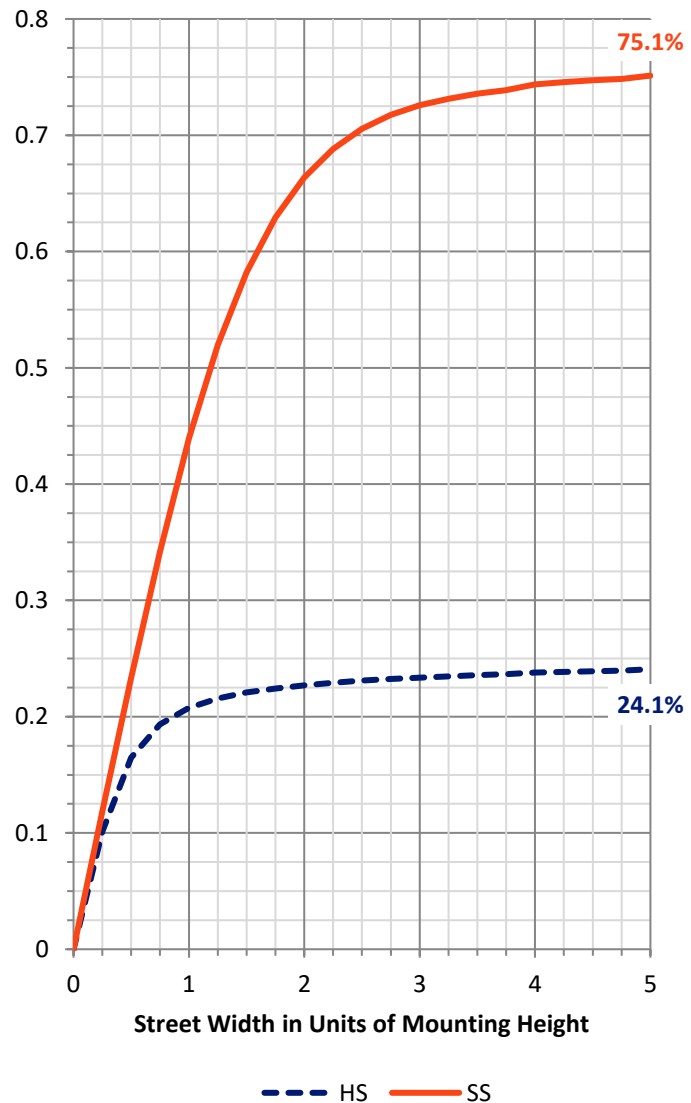
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10110.5	0.0	10110.5
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	31013.5	0.0	31013.5
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	41124.0	0.0	41124.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.7	1.0
10°-20°	1302.5	3.2
20°-30°	2439.5	5.9
30°-40°	4144.9	10.1
40°-50°	6360.6	15.5
50°-60°	8310.4	20.2
60°-70°	9462.9	23.0
70°-80°	7144.3	17.4
80°-90°	1559.1	3.8
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°	41124.0	100.0
0°-180°	41124.0	100.0



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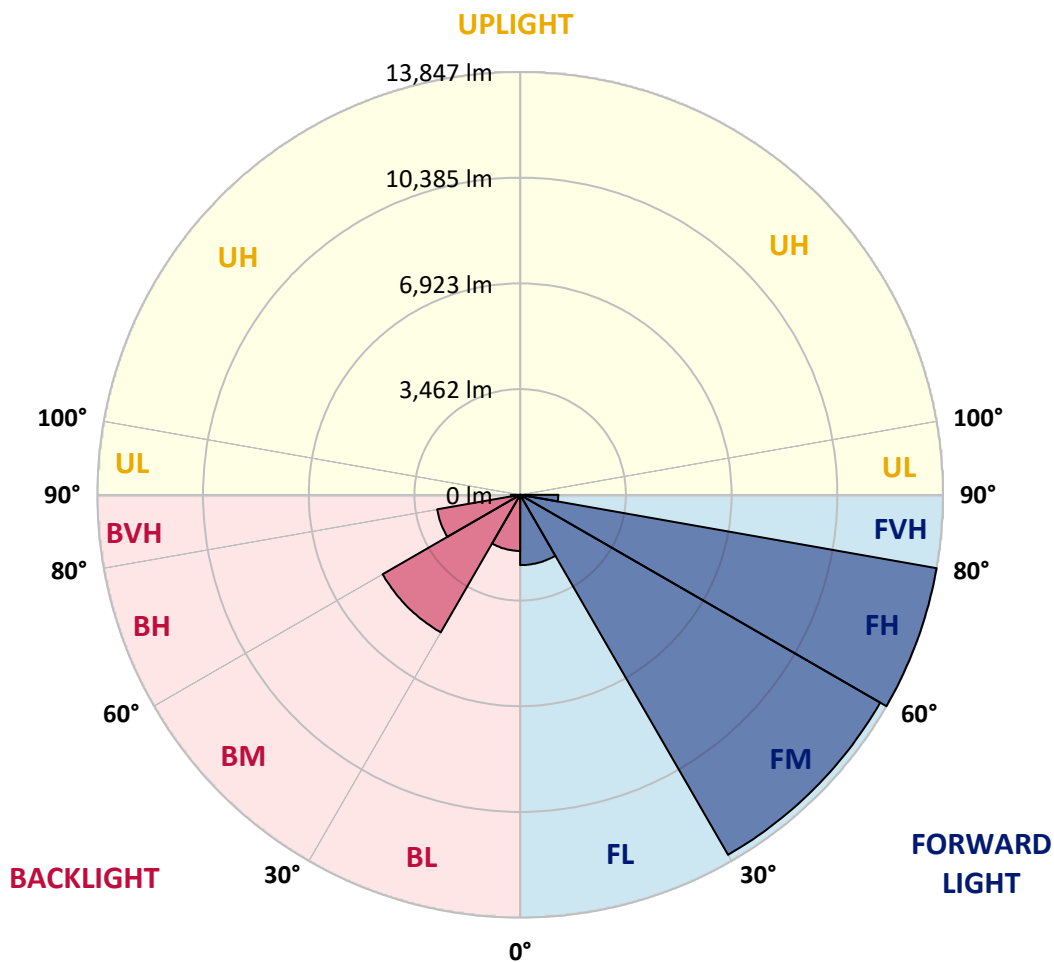
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2303.3	5.6			
FM	(30°-60°)	13613.7	33.1			
FH	(60°-80°)	13846.6	33.7			G5
FVH	(80°-90°)	1250.0	3.0			G5
BL	(0°-30°)	1838.4	4.5	B3/2500		
BM	(30°-60°)	5202.3	12.7	B4/8500		
BH	(60°-80°)	2760.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	309.1	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3
2.5°	4211.6	4224.1	4222.6	4216.3	4213.1	4195.8	4173.8	4145.4	4098.2	4076.2	4047.8
5°	4391.0	4400.5	4402.1	4391.0	4378.4	4351.7	4306.0	4261.9	4210.0	4178.5	4123.4
7.5°	4543.8	4551.6	4565.8	4556.3	4550.1	4528.0	4483.9	4432.0	4364.3	4320.2	4243.0
10°	4666.6	4672.9	4683.9	4699.6	4729.5	4710.6	4658.7	4622.5	4561.1	4493.4	4397.3
12.5°	4754.7	4750.0	4781.5	4809.8	4871.2	4891.7	4855.5	4828.7	4768.9	4699.6	4586.3
15°	4795.7	4794.1	4849.2	4920.0	5011.4	5044.4	5044.4	5014.5	4981.4	4927.9	4808.3
17.5°	4883.8	4890.1	4926.3	5017.7	5115.3	5192.4	5266.4	5269.6	5244.4	5208.2	5083.8
20°	5019.2	5030.2	5049.1	5121.6	5230.2	5365.6	5504.1	5554.5	5541.9	5527.8	5430.1
22.5°	5189.3	5194.0	5189.3	5252.2	5397.1	5579.7	5779.7	5863.1	5871.0	5872.6	5823.8
25°	5461.6	5441.2	5389.2	5445.9	5614.4	5825.3	6069.4	6207.9	6244.1	6277.2	6393.7
27.5°	5959.2	5911.9	5814.3	5795.4	5891.5	6122.9	6425.2	6656.6	6708.6	6799.9	7110.0
30°	6762.1	6699.1	6607.8	6329.1	6291.4	6489.7	6873.9	7204.5	7308.4	7585.5	7942.9
32.5°	7576.1	7535.1	7432.8	7165.2	6881.8	6955.8	7333.6	7850.0	8073.6	8634.1	8964.7
35°	8275.1	8254.6	8196.4	8065.7	7736.7	7528.8	7857.9	8575.8	8993.0	9868.4	10166.0
37.5°	8949.0	8939.5	8942.7	8764.8	8626.2	8327.1	8459.3	9422.9	10107.7	11161.0	11361.0
40°	9537.8	9542.5	9591.3	9509.5	9485.8	9300.1	9167.8	10326.6	11264.9	12439.4	12486.7
42.5°	10021.1	10025.9	10252.6	10129.8	10276.2	10235.3	10044.8	11170.5	12329.2	13473.8	13467.5
45°	10339.2	10347.0	10570.6	10669.8	10980.0	11115.4	10973.7	12036.4	13322.7	14431.1	14306.7
47.5°	10575.3	10569.0	10696.6	11096.5	11625.5	11893.1	11945.1	13020.4	14286.2	15317.5	15101.8
50°	10702.9	10717.0	10961.1	11494.8	12275.7	12648.8	12933.8	14182.3	15274.9	16172.4	15868.5
52.5°	10783.1	10854.0	11211.4	11845.9	12862.9	13447.1	13804.4	15470.2	16389.6	17060.3	16680.9
55°	10839.8	10968.9	11321.6	12030.1	13228.2	14094.1	14621.6	16799.0	17705.8	18066.4	17572.0
57.5°	10435.2	10559.6	11132.7	12058.4	13516.3	14626.3	15492.2	18201.8	19078.7	19307.0	18453.7
60°	9744.0	9818.0	10556.4	11836.4	13453.4	15109.6	16635.2	19865.9	20783.8	20801.1	19382.6
62.5°	9032.4	9062.3	9808.6	11257.0	13170.0	15268.7	17778.3	22084.3	22805.4	22584.9	20369.7
65°	8087.8	8120.8	8890.7	10304.5	12485.1	15092.3	18713.5	24422.3	25431.5	24842.7	21349.0
67.5°	6853.4	6925.8	7640.6	8950.5	11266.5	14410.6	19384.2	26032.9	26651.7	26144.7	22026.0
69°	5989.1	6056.8	6656.6	8013.8	10317.1	13642.3	19666.0	26458.0	26953.9	26401.3	22139.4
70°	5367.2	5419.1	5981.2	7313.1	9574.0	12985.8	19727.4	26572.9	26938.2	26410.8	22078.0
72.5°	3825.8	3869.9	4175.3	5116.8	7256.5	10877.6	19426.7	26261.2	26528.8	25768.4	21273.5
75°	2829.2	2863.9	3046.5	3380.3	4224.1	7697.3	17553.1	24965.5	25250.4	24364.0	19596.7
77.5°	2053.0	2081.4	2257.7	2583.6	2972.5	3624.3	12168.6	22531.4	22811.7	22100.0	16869.8
80°	1401.2	1431.1	1590.2	1865.7	2172.7	2412.0	5974.9	16490.4	18034.9	17688.5	12022.2
82.5°	262.9	322.8	683.3	968.3	1221.7	1306.8	2259.3	9067.0	10536.0	10746.9	6269.3
85°	174.8	188.9	417.2	406.2	398.3	584.1	884.8	4347.0	5499.4	5697.8	2706.4
87.5°	86.6	91.3	124.4	171.6	218.8	262.9	291.3	1146.2	1656.3	1775.9	505.4
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°	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3
2.5°	4036.8	4028.9	4005.3	3995.9	3989.6	3986.4	3948.6	3942.3	3923.4	3910.8	3899.8
5°	4096.6	4084.0	4028.9	4008.5	3977.0	3950.2	3887.2	3860.5	3841.6	3816.4	3805.4
7.5°	4202.1	4180.1	4096.6	4058.8	4003.7	3958.1	3871.5	3830.5	3794.3	3759.7	3753.4
10°	4345.4	4304.4	4189.5	4131.3	4051.0	3997.4	3896.7	3817.9	3764.4	3725.1	3723.5
12.5°	4532.7	4471.3	4332.8	4255.6	4156.4	4074.6	3959.6	3841.6	3753.4	3690.4	3687.3
15°	4756.3	4691.7	4551.6	4452.4	4335.9	4225.7	4041.5	3866.8	3720.3	3619.6	3607.0
17.5°	5030.2	4968.8	4841.3	4761.0	4597.3	4380.0	4118.7	3857.3	3647.9	3509.4	3488.9
20°	5376.6	5393.9	5274.3	5099.5	4827.1	4507.5	4156.4	3808.5	3504.6	3311.0	3282.6
22.5°	5860.0	5918.2	5718.3	5397.1	5001.9	4575.2	4140.7	3679.4	3307.8	3073.3	3049.6
25°	6451.9	6434.6	6074.1	5615.9	5091.6	4573.7	4052.5	3495.2	3057.5	2793.0	2775.7
27.5°	7070.7	6966.8	6409.4	5768.6	5107.4	4487.1	3879.4	3218.1	2769.4	2549.0	2497.0
30°	7859.5	7569.8	6752.7	5897.7	5055.4	4321.8	3566.0	2952.0	2604.1	2364.8	2330.1
32.5°	8771.1	8289.3	7138.4	5937.1	4940.5	4068.3	3226.0	2829.2	2495.4	2223.1	2183.7
35°	9830.6	9210.3	7585.5	5951.3	4721.7	3692.0	3041.8	2758.4	2423.0	2114.4	2062.5
37.5°	10939.0	10186.4	8136.6	5935.5	4466.6	3279.5	2912.7	2656.0	2341.2	2089.2	2059.3
40°	11940.3	11126.4	8758.5	5891.5	4117.1	3011.9	2772.5	2514.3	2270.3	2079.8	2056.2
42.5°	12858.2	11945.1	9353.6	5817.5	3681.0	2821.3	2618.2	2408.9	2180.6	1947.5	1900.3
45°	13653.3	12700.8	9794.4	5641.1	3192.9	2626.1	2432.5	2262.4	2046.7	1815.3	1768.1
47.5°	14335.0	13324.3	10140.8	5338.8	2799.3	2443.5	2221.5	2087.7	1898.7	1678.3	1631.1
50°	15030.9	13831.2	10343.9	4839.7	2470.3	2234.1	2012.1	1884.6	1722.4	1561.8	1533.5
52.5°	15777.2	14654.6	10639.9	4017.9	2166.4	2013.7	1790.1	1651.6	1531.9	1464.2	1437.4
55°	16531.3	15385.2	10748.5	3038.6	1900.3	1840.5	1580.7	1401.2	1316.2	1273.7	1267.4
57.5°	17280.7	16008.6	10377.0	2163.2	1724.0	1640.5	1357.1	1187.1	1086.3	1116.3	1161.9
60°	18047.5	16463.6	9427.6	1692.5	1585.4	1401.2	1168.2	1042.3	998.2	965.1	966.7
62.5°	18756.0	16676.2	7812.2	1437.4	1451.6	1253.2	1102.1	979.3	935.2	878.5	861.2
65°	19226.7	16301.5	6097.7	1330.4	1330.4	1215.4	1098.9	980.9	921.0	821.8	804.5
67.5°	19091.3	15325.3	4512.3	1234.3	1253.2	1231.2	1125.7	977.7	903.7	809.2	803.0
69°	18655.2	14390.1	3465.3	1206.0	1240.6	1245.4	1157.2	993.5	922.6	779.3	744.7
70°	18217.5	13669.0	2868.6	1182.4	1237.5	1254.8	1182.4	1012.3	908.4	732.1	710.1
72.5°	16729.7	11553.0	1445.3	1091.1	1232.8	1265.8	1237.5	1083.2	900.6	705.3	686.4
75°	14708.2	8886.0	927.3	1013.9	1193.4	1278.4	1281.6	1149.3	903.7	689.6	666.0
77.5°	11784.5	5151.5	769.9	927.3	1119.4	1253.2	1295.7	1199.7	941.5	716.4	689.6
80°	6266.2	2037.3	618.7	791.9	1024.9	1177.7	1256.4	1182.4	932.1	598.3	581.0
82.5°	2774.1	632.9	453.4	621.9	806.1	1029.7	1067.5	1040.7	815.5	362.1	414.1
85°	779.3	261.4	302.3	447.1	557.3	729.0	836.0	839.2	632.9	157.4	36.2
87.5°	80.3	59.8	88.2	171.6	321.2	505.4	610.9	585.7	423.5	133.8	3.1
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)