

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: P285833

Luminaire Tested: **USSL-XL-C069-D-U-T4-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285833  
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-C069-D-U-T4-BZ  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41089 lumens  
Efficiency: N/A  
Efficacy: 144.2 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): 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

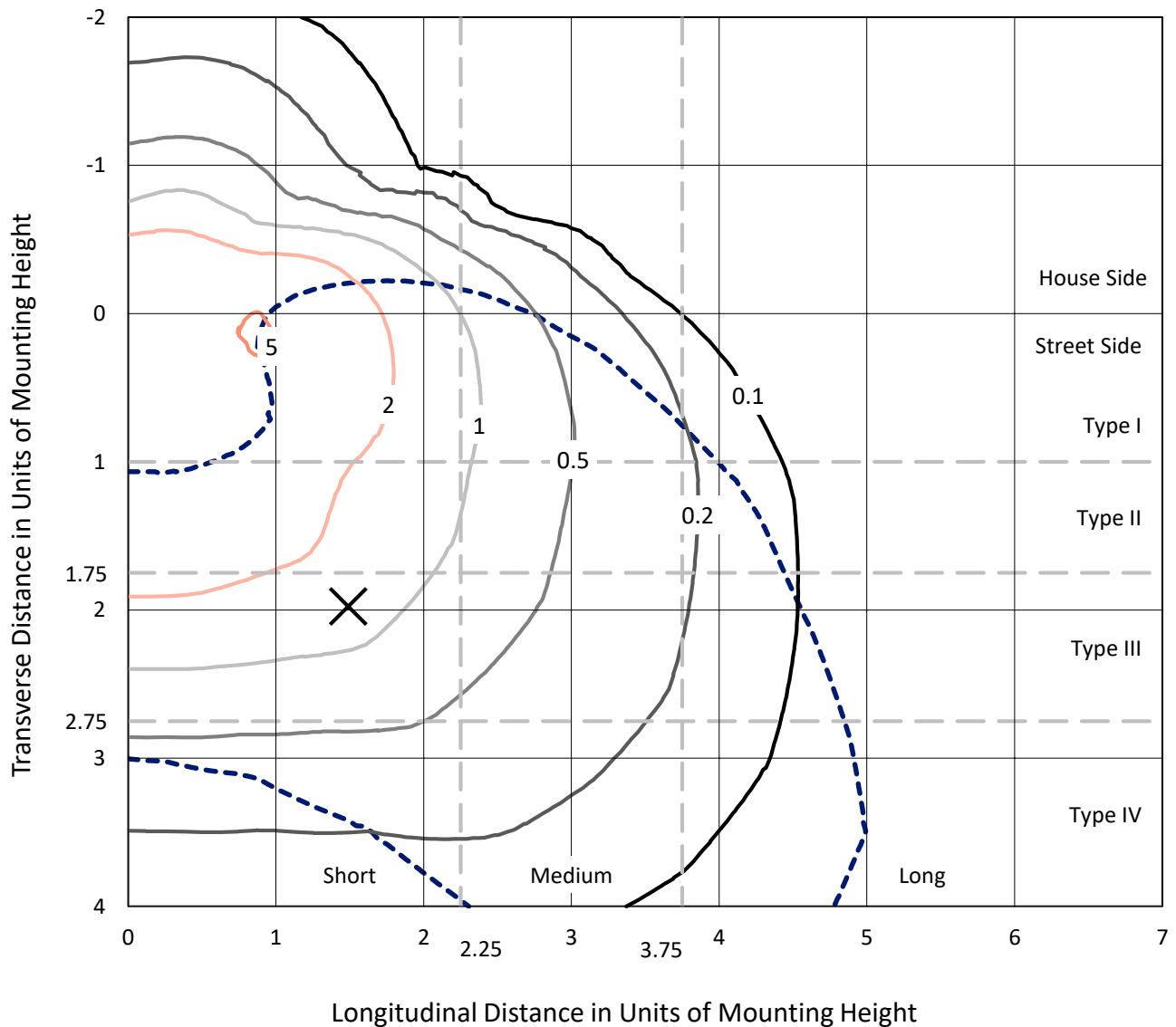


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

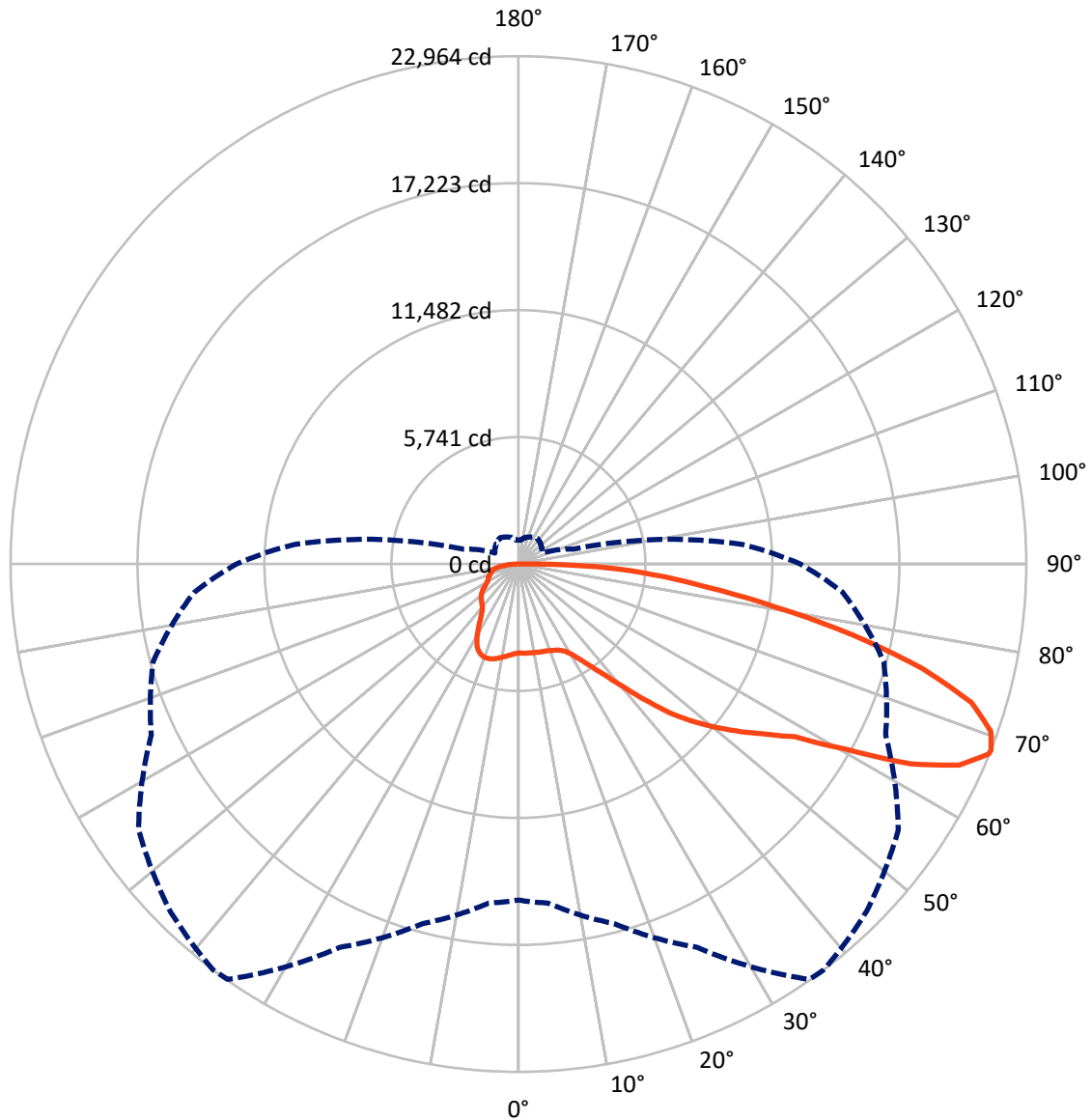


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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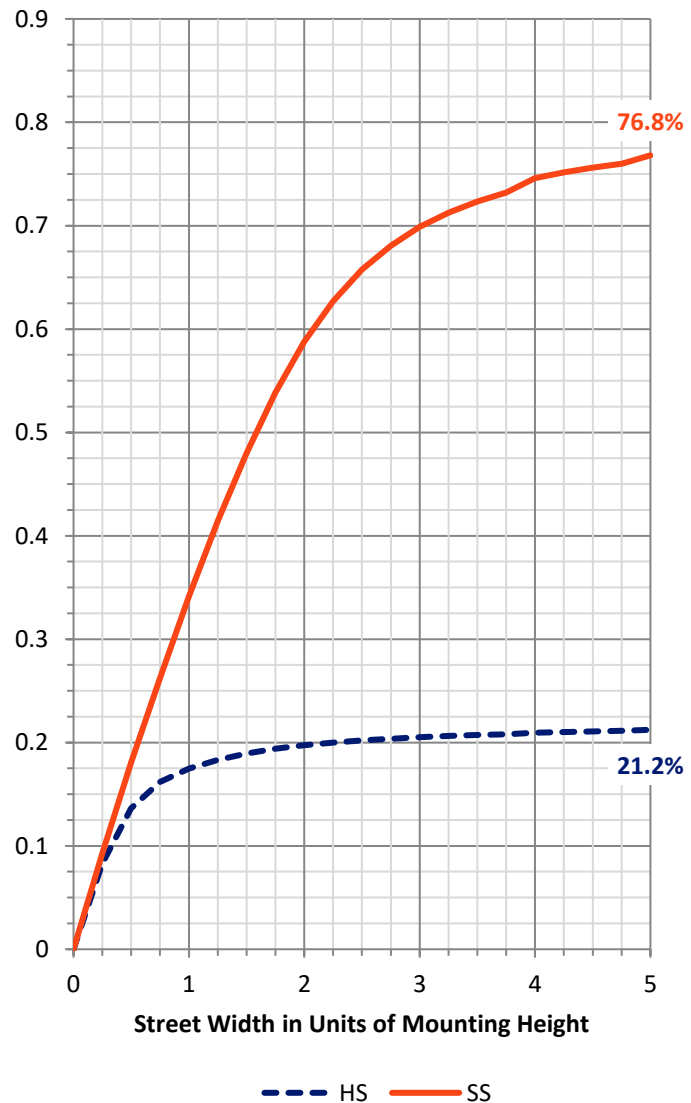
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8872.3	0.0	8872.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	32216.7	0.0	32216.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	41089.0	0.0	41089.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.2	0.9
10°-20°	1212.8	3.0
20°-30°	2071.5	5.0
30°-40°	3300.3	8.0
40°-50°	5723.9	13.9
50°-60°	8297.0	20.2
60°-70°	10463.4	25.5
70°-80°	7753.3	18.9
80°-90°	1876.7	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°	41089.0	100.0
0°-180°	41089.0	100.0



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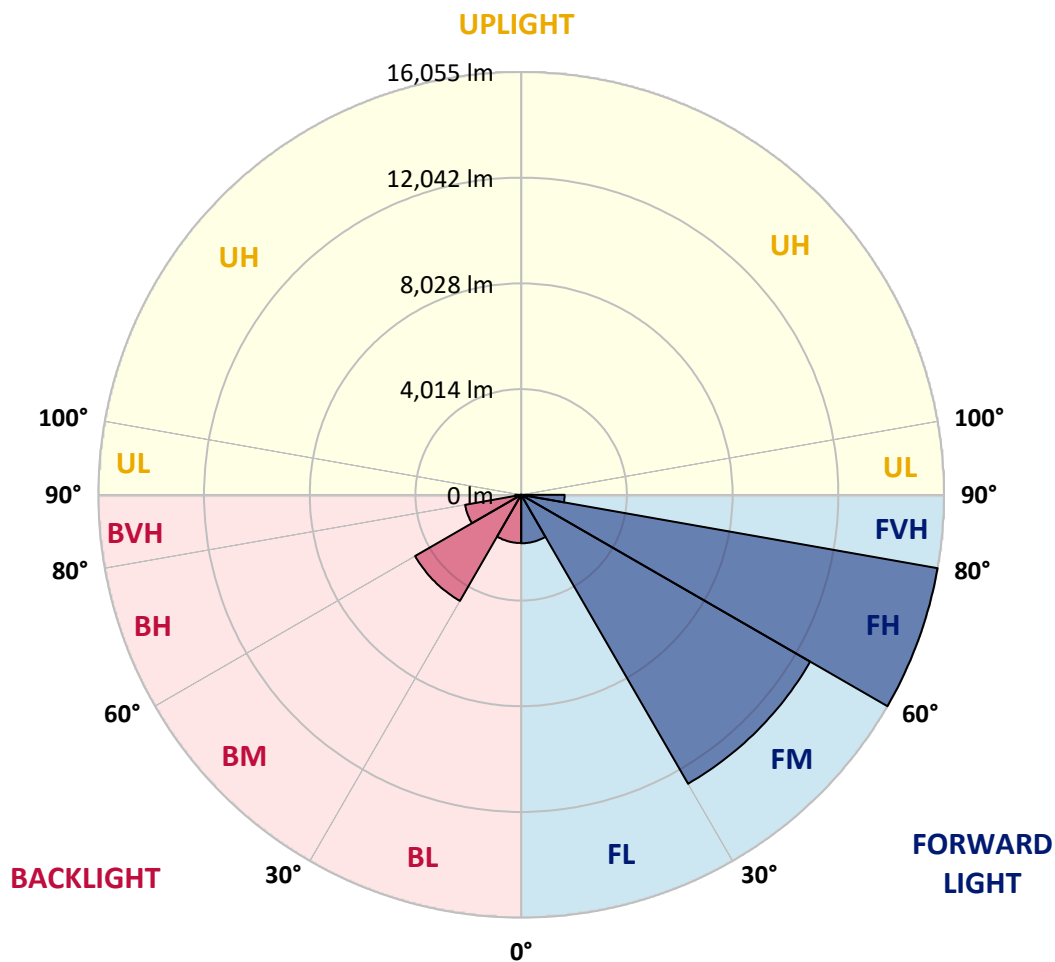
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.0	4.5			
FM	(30°-60°)	12670.1	30.8			
FH	(60°-80°)	16055.4	39.1			G5
FVH	(80°-90°)	1649.2	4.0			G5
BL	(0°-30°)	1832.5	4.5	B3/2500		
BM	(30°-60°)	4651.1	11.3	B3/5000		
BH	(60°-80°)	2161.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	227.5	0.6			G3/500
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°	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7
2.5°	4016.3	4027.3	4030.5	4024.2	4030.5	4036.8	4022.6	4021.0	4014.7	3989.5	3992.7
5°	4017.9	4032.0	4033.6	4028.9	4039.9	4046.2	4039.9	4033.6	4027.3	3991.1	3999.0
7.5°	4017.9	4028.9	4032.0	4028.9	4044.6	4055.7	4055.7	4060.4	4060.4	4019.4	4025.7
10°	4003.7	4013.1	4017.9	4025.7	4052.5	4068.2	4077.7	4099.7	4112.3	4084.0	4085.6
12.5°	3939.1	3947.0	3962.8	4008.4	4071.4	4090.3	4117.1	4156.4	4187.9	4187.9	4191.0
15°	3888.8	3896.6	3926.6	3988.0	4084.0	4109.2	4161.1	4227.3	4285.5	4317.0	4342.2
17.5°	3901.4	3910.8	3954.9	4006.8	4102.9	4128.1	4202.1	4298.1	4394.1	4461.8	4512.2
20°	3940.7	3947.0	3997.4	4057.2	4159.6	4176.9	4249.3	4367.4	4501.2	4613.0	4694.9
22.5°	4052.5	4049.4	4090.3	4113.9	4219.4	4235.1	4318.6	4439.8	4613.0	4781.4	4901.1
25°	4145.4	4159.6	4192.6	4211.5	4298.1	4312.3	4416.2	4550.0	4750.0	4967.2	5159.3
27.5°	4247.7	4260.3	4293.4	4335.9	4457.1	4465.0	4537.4	4702.7	4924.7	5190.8	5497.8
30°	4479.2	4477.6	4510.7	4556.3	4720.0	4734.2	4801.9	4972.0	5178.2	5510.4	5880.4
32.5°	4879.1	4875.9	4880.6	4943.6	5121.5	5154.6	5241.2	5466.3	5724.5	6045.7	6456.6
35°	5699.3	5666.3	5603.3	5552.9	5653.7	5691.5	5880.4	6159.0	6620.3	7251.7	7760.2
37.5°	7054.9	7002.9	6790.4	6502.3	6385.8	6381.0	6513.3	6936.8	7654.7	8920.5	9380.3
40°	8353.8	8355.3	8067.2	7676.8	7313.1	7294.2	7218.6	7742.9	8774.1	10487.1	10702.8
42.5°	9584.9	9577.1	9241.7	8884.3	8449.8	8393.1	8172.7	8575.8	9891.9	11776.5	11819.0
45°	10694.9	10669.7	10309.2	10079.3	9706.2	9592.8	9300.0	9427.5	10938.9	12810.9	12661.3
47.5°	11767.1	11741.9	11291.6	11069.6	10742.1	10647.7	10337.5	10394.2	11940.2	13672.1	13343.0
50°	12873.9	12866.0	12214.2	11998.5	11650.6	11611.2	11423.8	11464.8	12985.6	14388.4	13977.5
52.5°	14185.3	13982.2	13250.1	12837.6	12590.5	12588.9	12379.5	12485.0	14141.3	15027.6	14418.3
55°	15592.8	15336.2	14586.8	13993.3	13568.2	13574.5	13248.6	13418.6	15156.7	15599.1	14840.3
57.5°	16597.3	16543.8	16320.2	15726.7	14848.2	14744.2	14243.6	14377.4	16047.8	16191.1	15144.1
60°	17534.1	17762.4	17911.9	17723.0	17280.6	16979.9	15591.3	15391.3	16833.5	16712.2	15303.2
62.5°	18124.5	18242.6	18940.0	19199.8	19894.1	19917.7	18256.7	16619.4	17502.6	17039.7	15374.0
65°	17474.3	17649.0	18804.6	19820.1	21800.7	21914.1	21213.4	18667.6	18036.3	17153.1	15240.2
67.5°	15660.5	15843.2	17231.8	19314.7	22855.5	22932.7	22205.3	20793.1	18302.4	17129.5	14848.2
68°	15196.1	15391.3	16839.8	19124.2	22928.0	22964.2	22244.7	20969.4	18319.7	17102.7	14720.6
70°	13273.8	13465.8	14933.2	17932.4	22641.4	22665.0	21995.9	21155.2	18230.0	16872.8	13881.5
72.5°	10427.2	10620.9	11778.1	15211.8	21202.4	21408.7	21067.0	20626.2	17850.5	15977.0	11902.5
75°	7388.7	7587.0	8791.4	11905.6	18278.8	18851.9	19533.6	19612.3	16430.4	13720.9	8867.0
77.5°	5209.7	5371.8	6414.1	8900.1	14752.1	15493.7	16913.8	17030.3	13760.2	10469.8	4677.5
80°	3381.8	3520.4	4454.0	6522.7	11151.5	11792.2	13352.5	12870.7	9778.6	5693.0	814.0
82.5°	2042.0	2145.9	2837.1	4512.2	8160.1	8586.8	9222.8	7727.1	4537.4	804.5	285.0
85°	1171.4	1242.2	1752.3	2898.5	5749.7	6113.4	6201.6	3879.3	853.3	222.0	160.6
87.5°	599.8	636.1	939.9	1780.6	3397.6	3553.4	3111.0	1388.6	170.0	99.2	80.3
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°	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7	4014.7
2.5°	3976.9	3988.0	3995.8	4022.6	4050.9	4065.1	4050.9	4073.0	4080.8	4074.5	4065.1
5°	3986.4	4003.7	4016.3	4069.8	4101.3	4124.9	4109.2	4140.7	4151.7	4139.1	4139.1
7.5°	4013.1	4036.8	4057.2	4128.1	4164.3	4195.8	4186.3	4208.4	4217.8	4202.1	4211.5
10°	4084.0	4107.6	4134.4	4222.5	4246.2	4276.1	4258.7	4276.1	4279.2	4268.2	4276.1
12.5°	4206.8	4222.5	4274.5	4364.2	4367.4	4375.3	4339.0	4306.0	4291.8	4271.3	4285.5
15°	4364.2	4392.6	4463.4	4539.0	4518.5	4501.2	4411.5	4304.4	4236.7	4186.3	4183.2
17.5°	4539.0	4589.4	4677.5	4726.3	4679.1	4600.4	4449.3	4268.2	4104.5	4014.7	3986.4
20°	4718.5	4797.2	4894.8	4904.3	4824.0	4672.8	4443.0	4175.3	3904.5	3737.6	3696.7
22.5°	4937.3	5039.7	5127.8	5080.6	4920.0	4698.0	4384.7	4011.6	3640.0	3386.5	3348.7
25°	5227.0	5327.8	5343.5	5205.0	4956.2	4650.8	4250.9	3767.5	3296.8	2981.9	2952.0
27.5°	5576.5	5630.1	5527.7	5269.5	4912.1	4509.1	4022.6	3429.0	2914.2	2640.3	2594.6
30°	5963.8	5944.9	5663.1	5271.1	4783.0	4268.2	3676.2	3044.9	2611.9	2375.8	2331.7
32.5°	6455.0	6330.7	5800.1	5200.2	4570.5	3943.9	3268.5	2737.9	2404.1	2163.2	2120.7
35°	7431.2	7053.3	5985.9	5088.5	4288.7	3555.0	2911.1	2515.9	2226.2	1949.1	1909.7
37.5°	8915.8	8133.3	6321.2	4965.7	3975.4	3156.7	2637.1	2342.7	2086.1	1790.1	1728.7
40°	10217.8	9326.7	6856.5	4850.7	3655.8	2854.4	2479.7	2259.3	2008.9	1709.8	1646.8
42.5°	11217.6	10282.4	7468.9	4713.8	3322.0	2630.8	2413.6	2248.2	1999.5	1709.8	1651.5
45°	12025.3	11071.2	8013.7	4564.2	2999.2	2454.5	2353.7	2227.8	1980.6	1700.4	1645.2
47.5°	12662.9	11660.0	8443.5	4392.6	2663.9	2334.8	2292.3	2156.9	1931.8	1672.0	1616.9
50°	13215.5	12081.9	8684.4	4191.0	2366.3	2240.4	2205.7	2043.6	1834.2	1588.6	1552.4
52.5°	13601.2	12425.2	8775.7	4107.6	2153.8	2133.3	2087.7	1928.6	1728.7	1489.4	1448.4
55°	13890.9	12601.5	8700.1	3917.1	1941.2	1968.0	1947.5	1840.5	1654.7	1428.0	1387.0
57.5°	14038.9	12659.7	8484.4	3199.2	1739.7	1771.2	1785.4	1791.7	1643.7	1445.3	1407.5
60°	14090.9	12568.4	8013.7	2284.5	1524.0	1587.0	1665.7	1689.3	1594.9	1379.2	1347.7
62.5°	14012.1	12330.7	7091.1	1579.1	1360.3	1472.1	1576.0	1569.7	1468.9	1281.6	1239.1
65°	13705.1	11748.2	5392.3	1273.7	1305.2	1420.1	1535.0	1457.9	1360.3	1187.1	1165.1
67.5°	12962.0	10521.7	3024.4	1176.1	1287.9	1390.2	1464.2	1371.3	1262.7	1098.9	1089.5
68°	12741.6	10161.2	2582.0	1169.8	1284.7	1380.7	1445.3	1349.3	1243.8	1084.8	1078.5
70°	11456.9	8303.4	1165.1	1149.3	1265.8	1346.1	1393.3	1287.9	1174.5	1036.0	1026.5
72.5°	8852.8	5142.0	782.5	1092.6	1218.6	1294.2	1324.1	1224.9	1130.4	976.1	963.5
75°	5247.5	1413.8	741.5	995.0	1138.3	1243.8	1275.3	1176.1	1064.3	886.4	865.9
77.5°	1291.0	510.1	717.9	884.8	1054.8	1160.3	1210.7	1143.0	1007.6	798.2	777.8
80°	392.0	406.2	683.3	765.2	949.4	1036.0	1065.9	1065.9	932.0	562.1	592.0
82.5°	258.2	325.9	582.5	574.7	754.1	858.0	801.4	804.5	732.1	250.3	292.8
85°	162.2	266.1	393.6	376.3	480.2	525.8	569.9	585.7	514.8	72.4	4.7
87.5°	83.4	113.4	138.5	148.0	190.5	272.4	365.3	359.0	264.5	64.6	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)