

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: P285775

Luminaire Tested: **USSL-XL-C047-D-U-T2-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T2-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26094.7 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 176
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

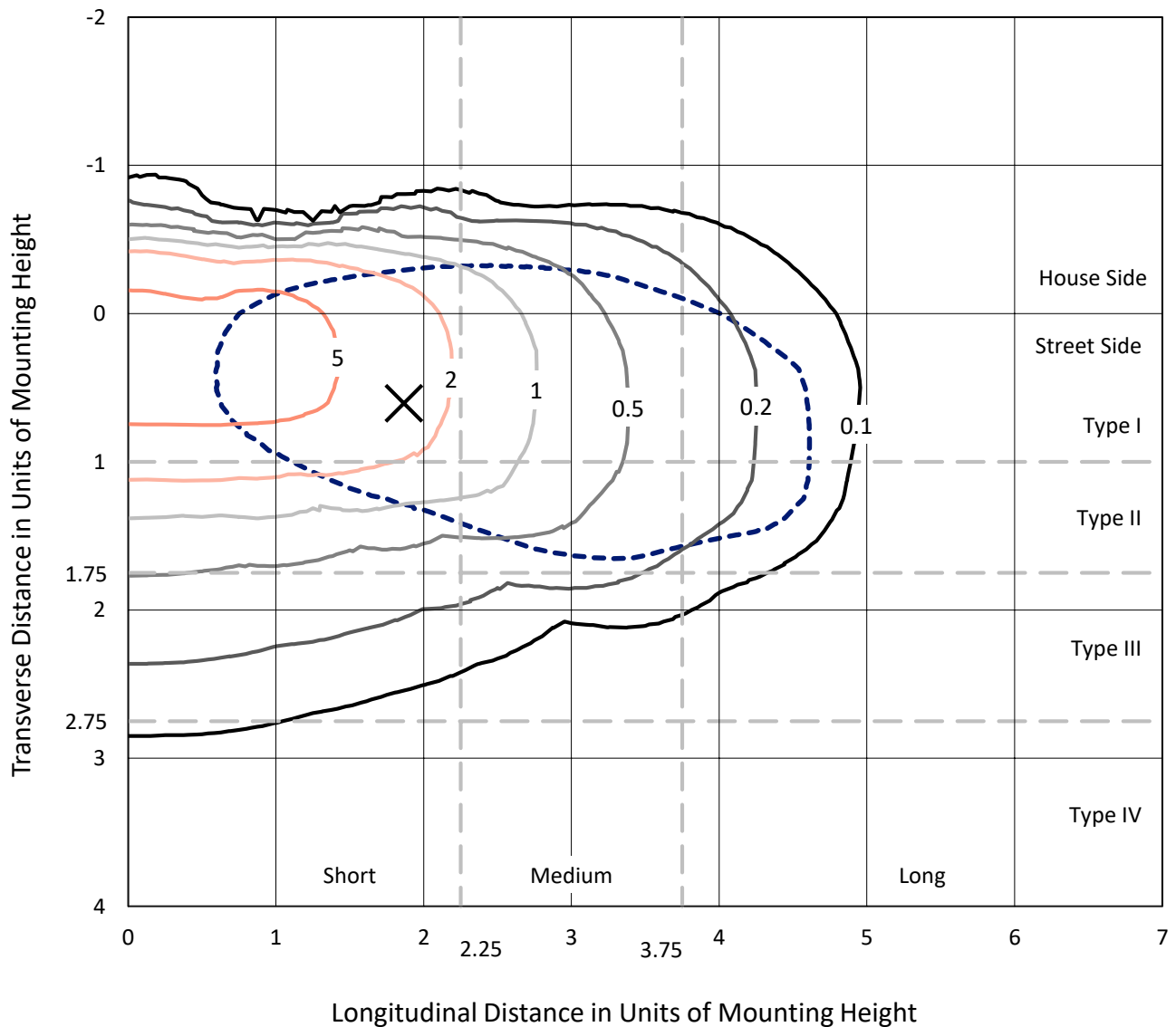


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

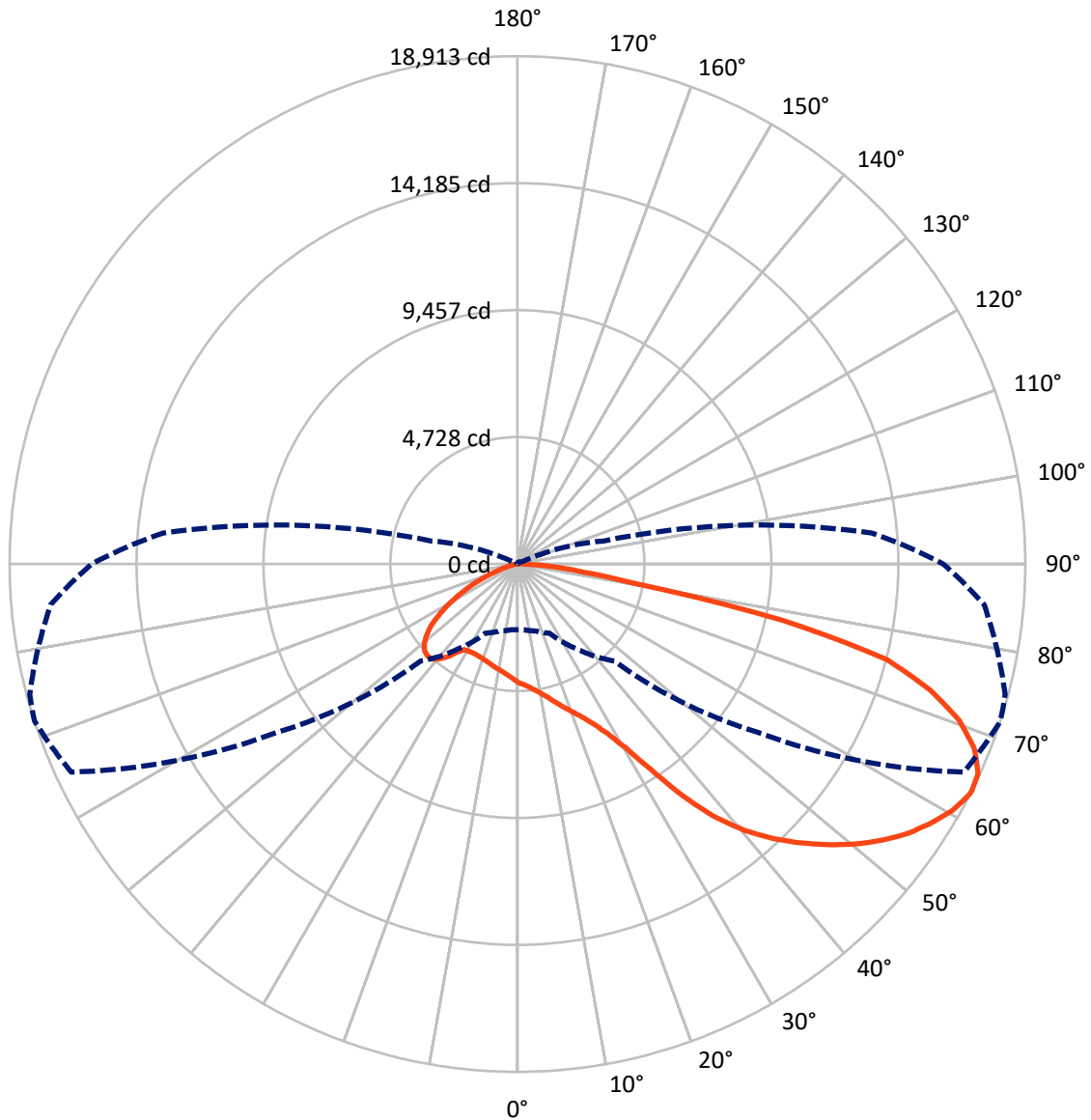


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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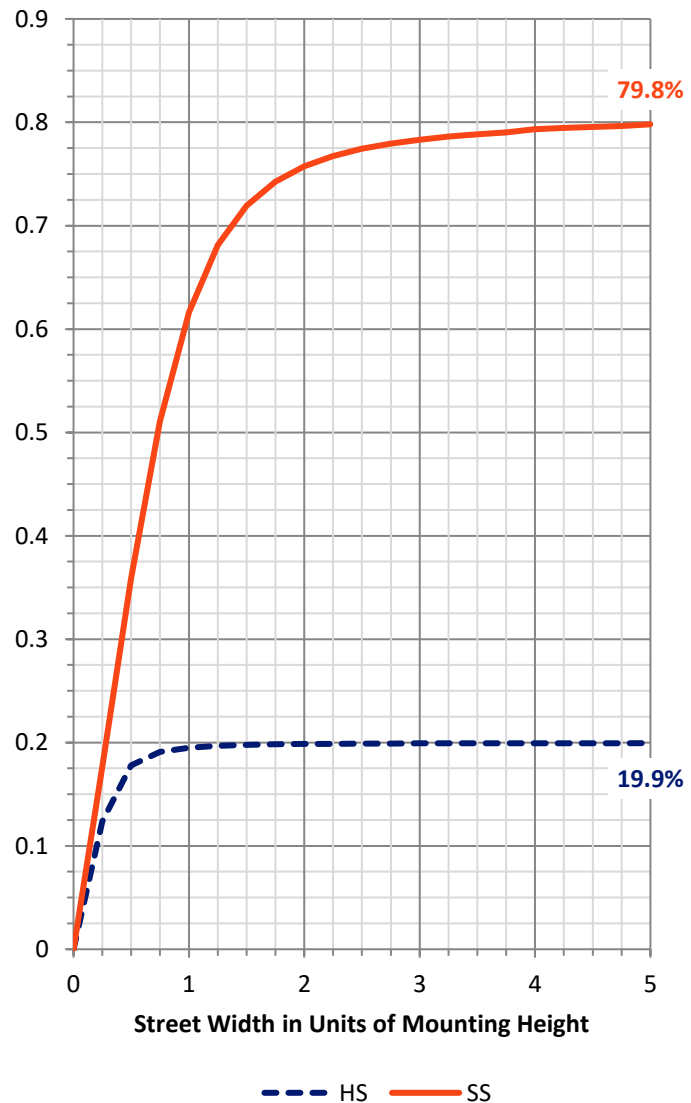
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5264.5	0.0	5264.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	20830.2	0.0	20830.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	26094.7	0.0	26094.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	1.6
10°-20°	1278.8	4.9
20°-30°	2157.8	8.3
30°-40°	3302.4	12.7
40°-50°	4600.6	17.6
50°-60°	5332.2	20.4
60°-70°	5227.4	20.0
70°-80°	3263.7	12.5
80°-90°	510.1	2.0
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°	26094.7	100.0
0°-180°	26094.7	100.0

Coefficient of Utilization



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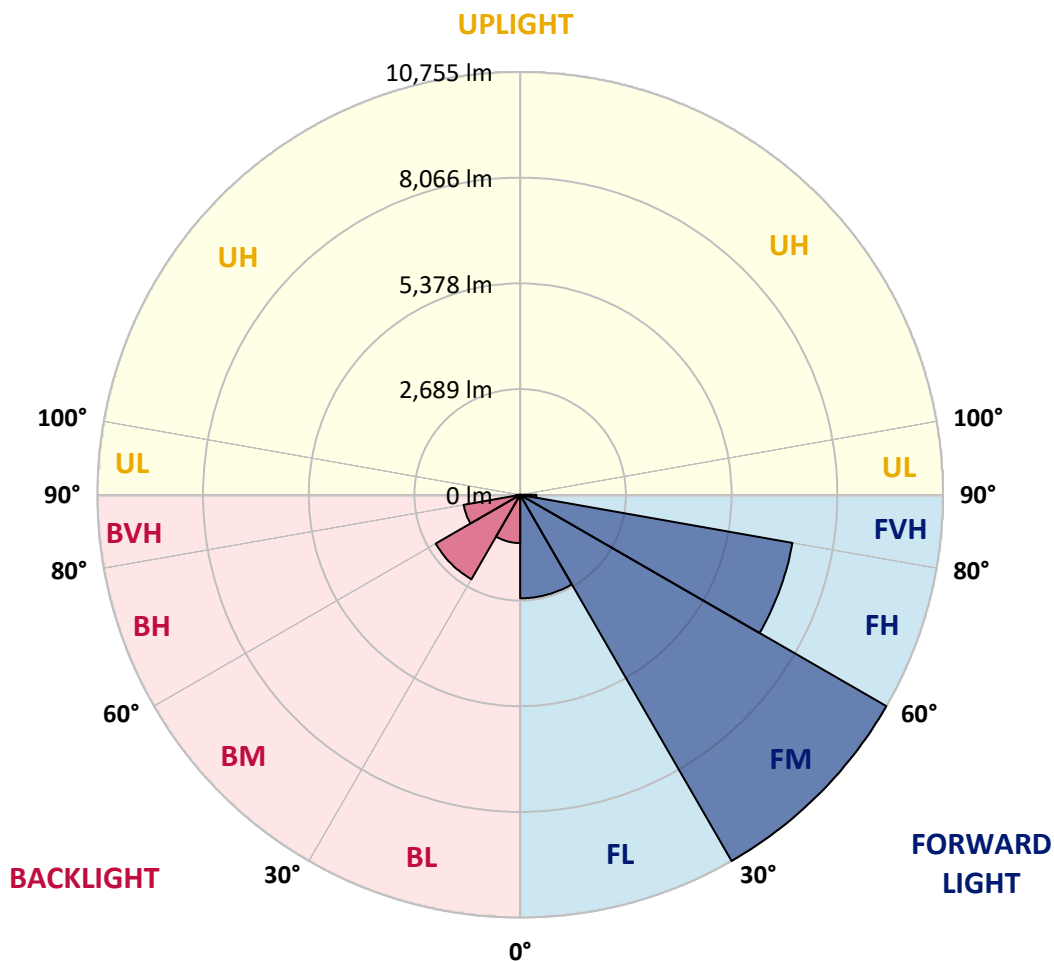
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2631.1	10.1			
FM	(30°-60°)	10755.1	41.2			
FH	(60°-80°)	7031.7	26.9			G3/7500
FVH	(80°-90°)	412.4	1.6			G3/500
BL	(0°-30°)	1227.3	4.7	B3/2500		
BM	(30°-60°)	2480.1	9.5	B2/2500		
BH	(60°-80°)	1459.4	5.6	B3/2500		G3/2500
BVH	(80°-90°)	97.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9
2.5°	4798.9	4786.0	4772.0	4754.7	4740.6	4697.5	4658.6	4584.2	4492.5	4488.1	4413.6
5°	5125.9	5105.4	5089.2	5059.0	5025.5	4948.9	4859.3	4734.1	4603.6	4583.1	4451.5
7.5°	5398.9	5377.3	5359.0	5320.2	5282.3	5188.5	5073.0	4904.7	4742.8	4701.8	4504.4
10°	5637.4	5615.8	5607.2	5565.1	5538.1	5435.6	5292.1	5109.7	4906.8	4844.3	4584.2
12.5°	5888.8	5866.2	5851.1	5806.9	5774.4	5665.5	5538.1	5334.2	5104.3	5037.4	4698.5
15°	6137.0	6116.6	6082.0	6058.3	6020.5	5907.1	5787.4	5574.9	5346.0	5261.9	4851.8
17.5°	6365.9	6348.6	6322.6	6302.2	6270.9	6153.2	6022.7	5842.5	5608.2	5504.7	5027.7
20°	6534.2	6535.2	6524.4	6513.6	6524.4	6428.4	6322.6	6122.0	5881.3	5760.5	5210.0
22.5°	6678.7	6687.4	6701.4	6717.6	6786.6	6739.2	6611.9	6449.0	6191.0	6048.5	5444.3
25°	6750.0	6756.4	6819.1	6924.9	7080.2	7079.2	6960.5	6842.8	6597.9	6450.0	5770.1
27.5°	6792.1	6800.7	6888.1	7100.7	7374.8	7416.9	7368.3	7316.5	7146.1	6998.2	6200.7
30°	6789.9	6801.8	6936.7	7203.2	7606.8	7820.5	7824.8	8015.8	7934.8	7833.4	6927.0
32.5°	6628.1	6632.3	6820.1	7212.9	7781.7	8178.7	8356.8	8857.6	9107.9	9126.3	8268.4
35°	6243.9	6298.9	6579.5	7125.5	7907.9	8529.4	8990.3	9933.5	10598.2	10629.5	9615.1
37.5°	5967.7	6001.0	6320.5	6969.1	7966.2	8895.3	9717.6	11225.2	11952.5	11875.9	10729.9
40°	5665.5	5706.5	6034.5	6759.7	7929.5	9209.4	10459.0	12465.1	13047.8	12928.0	11679.5
42.5°	5331.0	5365.4	5674.1	6450.0	7812.9	9436.0	11174.4	13536.7	13984.5	13837.7	12542.8
45°	5001.8	5024.5	5316.9	6032.4	7588.5	9574.1	11827.3	14501.4	14815.5	14691.4	13338.1
47.5°	4584.2	4611.1	4969.4	5634.2	7177.3	9569.7	12392.8	15359.3	15621.5	15483.4	14047.1
50°	3535.3	3552.5	4343.5	5272.7	6646.4	9379.8	12877.4	16136.3	16383.4	16225.9	14748.5
52.5°	3202.9	3216.9	3461.8	4822.7	6066.9	8985.9	13195.6	16852.8	17076.3	16907.9	15410.1
55°	3044.2	3054.0	3172.7	3924.8	5558.6	8310.5	13336.0	17516.5	17685.9	17468.0	15947.5
57.5°	2819.8	2839.2	3018.4	3361.5	5061.1	7273.4	13135.2	18052.9	18180.3	17966.6	16470.8
60°	2649.3	2661.2	2812.2	3084.2	4460.1	6113.3	12418.7	18415.4	18622.7	18429.4	16963.0
62.5°	2483.1	2487.4	2613.7	2878.1	3937.7	5246.7	11196.0	18392.8	18894.6	18774.9	17392.4
63°	2447.5	2451.8	2580.2	2840.3	3861.1	5103.2	10928.4	18337.8	18913.0	18803.9	17449.7
65°	2296.4	2302.8	2428.0	2667.7	3528.7	4648.9	9743.6	17998.9	18851.4	18848.2	17526.3
67.5°	2070.8	2082.7	2189.5	2394.6	3075.5	4074.8	7916.5	17637.4	18357.2	18396.0	17097.8
70°	1797.8	1806.5	1927.3	2100.0	2587.7	3459.7	6062.6	16481.7	17448.5	17340.6	16105.1
72.5°	1508.7	1523.7	1639.2	1773.0	2146.4	2854.3	4389.9	14510.0	16084.5	16164.4	14439.9
75°	1316.5	1325.2	1424.5	1519.5	1782.8	2271.6	2936.3	10419.0	14222.0	14242.4	12456.5
77.5°	1092.1	1102.8	1205.4	1295.0	1446.0	1710.5	2025.6	5415.1	10112.6	10686.7	9672.3
80°	602.1	699.3	868.7	934.5	1046.8	1039.2	1288.5	2861.8	4475.2	5595.3	6388.4
82.5°	101.4	130.6	350.7	457.6	498.6	438.2	625.9	1575.5	2495.0	2862.9	3438.1
85°	43.1	62.6	183.5	200.7	125.2	122.0	247.2	824.5	1427.7	1644.6	1771.9
87.5°	5.4	9.8	47.5	62.6	29.1	40.0	49.6	257.9	497.5	571.9	646.4
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°	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9	4416.9
2.5°	4378.0	4353.2	4296.1	4251.8	4219.5	4175.2	4127.7	4093.1	4056.4	4040.2	4046.8
5°	4384.5	4329.5	4207.6	4111.5	4004.7	3925.9	3823.4	3771.5	3715.5	3687.4	3686.3
7.5°	4401.8	4315.5	4123.3	3972.3	3820.1	3697.1	3563.3	3471.6	3421.9	3385.2	3381.0
10°	4445.0	4322.0	4059.7	3854.6	3658.2	3493.1	3330.2	3211.5	3143.6	3105.7	3111.1
12.5°	4522.7	4345.7	4014.4	3758.6	3506.1	3309.7	3101.5	2962.2	2879.1	2832.7	2845.7
15°	4629.5	4397.5	3967.9	3639.9	3343.1	3112.2	2889.9	2732.4	2639.6	2599.6	2612.5
17.5°	4749.3	4473.0	3935.6	3507.2	3171.5	2910.4	2704.3	2550.0	2394.6	2363.3	2363.3
20°	4883.1	4557.1	3930.2	3381.0	3002.2	2718.3	2480.9	2351.4	2125.9	2049.3	2033.1
22.5°	5060.1	4675.9	3923.7	3265.4	2822.0	2519.8	2228.4	2024.4	1732.0	1600.3	1587.4
25°	5304.0	4839.9	3934.6	3170.5	2657.9	2296.4	1880.9	1553.9	1307.9	1142.8	1134.2
27.5°	5630.9	5059.0	3969.1	3082.0	2493.8	2021.2	1456.8	1108.2	918.3	770.5	726.2
30°	6249.3	5405.4	4029.5	3003.2	2302.8	1652.2	1035.9	750.0	614.0	511.5	488.8
32.5°	7431.0	6275.1	4112.6	2915.8	2067.7	1217.3	691.7	500.7	390.7	331.3	344.3
35°	8609.4	7359.7	4508.6	2787.4	1758.0	810.4	461.9	319.5	246.0	243.9	257.9
37.5°	9671.2	8319.0	5043.9	2643.9	1343.5	545.0	277.4	212.6	206.2	224.5	252.5
40°	10551.8	9098.2	5496.0	2443.2	922.6	333.4	181.2	193.1	183.5	191.0	187.8
42.5°	11369.8	9799.6	5862.9	2215.5	543.8	192.1	157.5	179.1	165.1	158.7	145.7
45°	12105.8	10461.1	6047.5	1857.2	317.2	153.3	143.5	169.4	159.7	147.9	128.5
47.5°	12775.9	11041.7	6168.3	1367.3	182.4	133.9	133.9	152.2	150.0	136.0	125.2
50°	13470.9	11609.3	6156.4	839.5	154.3	123.1	127.3	127.3	134.9	105.8	96.0
52.5°	14084.9	12119.7	5910.4	475.9	142.5	116.6	115.4	103.6	110.1	82.0	76.6
55°	14583.5	12516.9	5497.1	314.0	134.9	115.4	101.4	89.6	84.2	59.4	61.5
57.5°	15073.4	12894.6	4864.7	248.2	140.3	111.2	92.8	76.6	65.8	46.4	44.2
60°	15546.1	13195.6	4194.6	223.4	147.9	111.2	76.6	64.8	44.2	35.6	31.3
62.5°	15832.0	13261.5	3453.3	201.8	152.2	103.6	69.1	52.9	32.3	23.7	21.6
63°	15852.5	13242.1	3321.6	198.5	153.3	103.6	69.1	50.8	31.3	21.6	19.4
65°	15821.2	12997.1	2807.9	187.8	156.4	99.3	65.8	41.0	24.8	15.2	12.9
67.5°	15297.9	12178.0	2081.6	175.9	150.0	98.3	60.4	33.5	19.4	9.8	7.5
70°	14016.9	10906.8	1391.0	156.4	144.6	96.0	71.2	28.1	16.2	5.4	4.3
72.5°	12227.6	9535.3	931.3	128.5	126.2	78.8	43.1	23.7	11.9	2.1	0.0
75°	10334.9	7673.8	576.3	98.3	102.5	66.9	34.6	20.5	9.8	0.0	0.0
77.5°	8045.0	5668.7	410.1	62.6	72.3	57.2	29.1	17.3	7.5	0.0	0.0
80°	5488.5	3841.7	296.8	34.6	37.7	37.7	23.7	12.9	4.3	0.0	0.0
82.5°	3183.4	2152.9	151.0	17.3	16.2	19.4	10.8	6.5	1.1	0.0	0.0
85°	1552.9	953.9	25.9	9.8	8.6	8.6	4.3	0.0	0.0	0.0	0.0
87.5°	526.7	247.2	3.3	4.3	3.3	1.1	0.0	0.0	0.0	0.0	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)