

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: P285766

Luminaire Tested: **USSL-XL-C049-D-U-T2-BZ-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285766
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-C049-D-U-T2-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28233 lumens
Efficiency: N/A
Efficacy: 130.1 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 - G4

Input Watts (W): 217
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

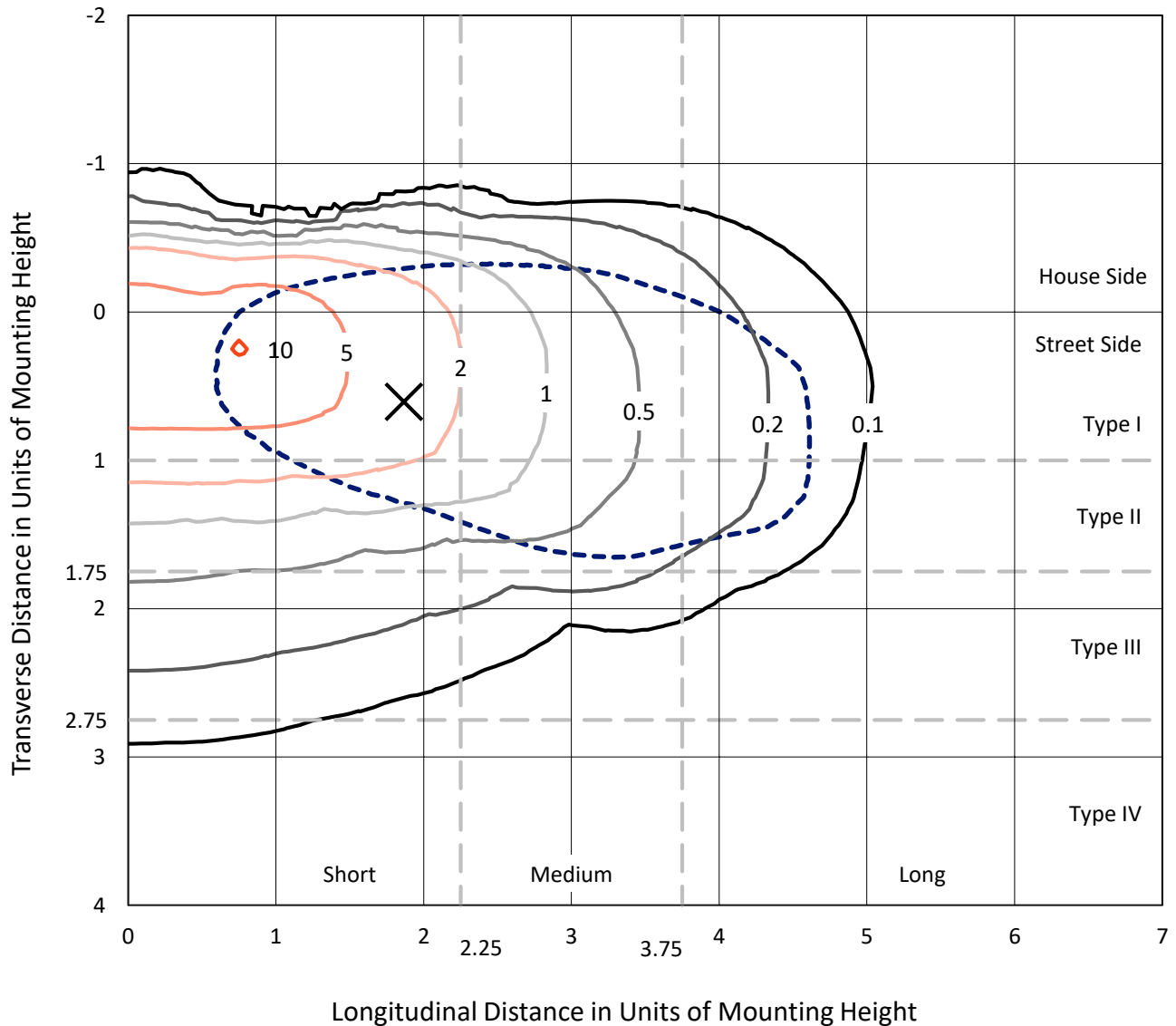


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

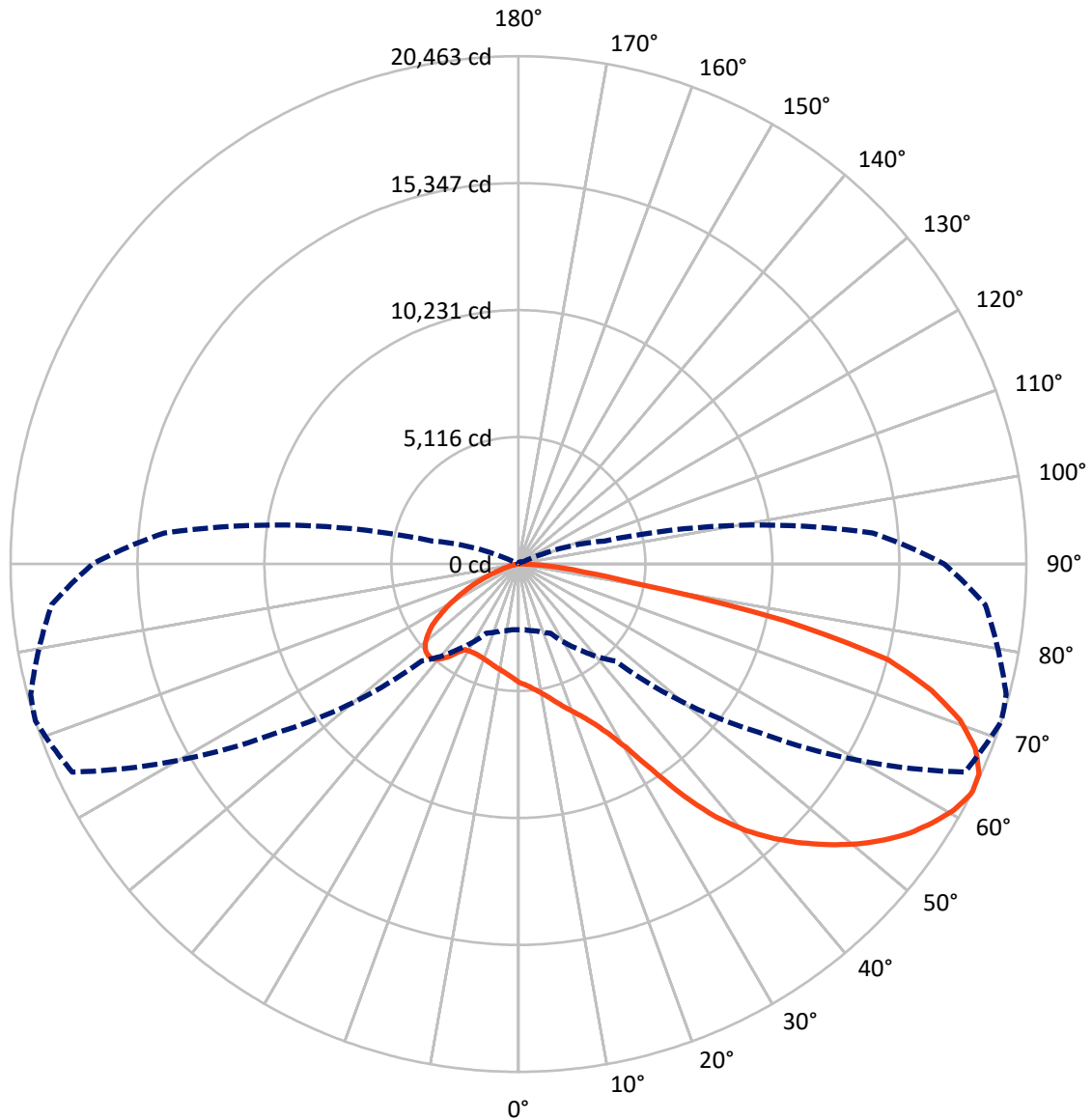


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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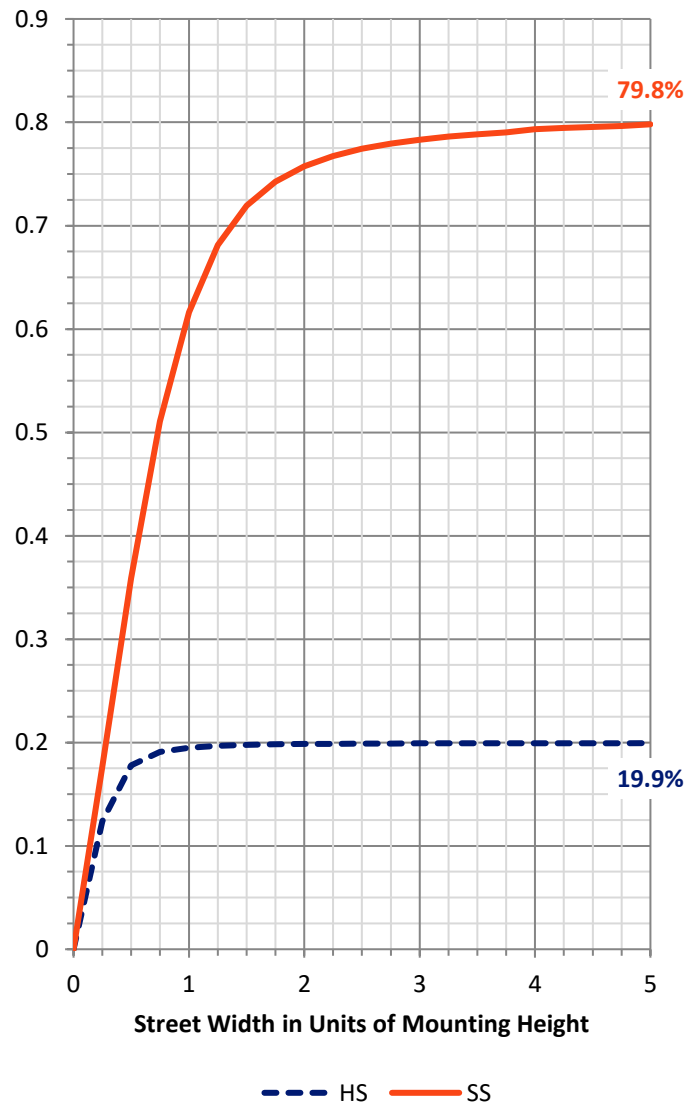
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5695.9	0.0	5695.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22537.1	0.0	22537.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	28233.0	0.0	28233.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.3	1.6
10°-20°	1383.6	4.9
20°-30°	2334.6	8.3
30°-40°	3573.0	12.7
40°-50°	4977.6	17.6
50°-60°	5769.1	20.4
60°-70°	5655.8	20.0
70°-80°	3531.1	12.5
80°-90°	551.9	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°	28233.0	100.0
0°-180°	28233.0	100.0



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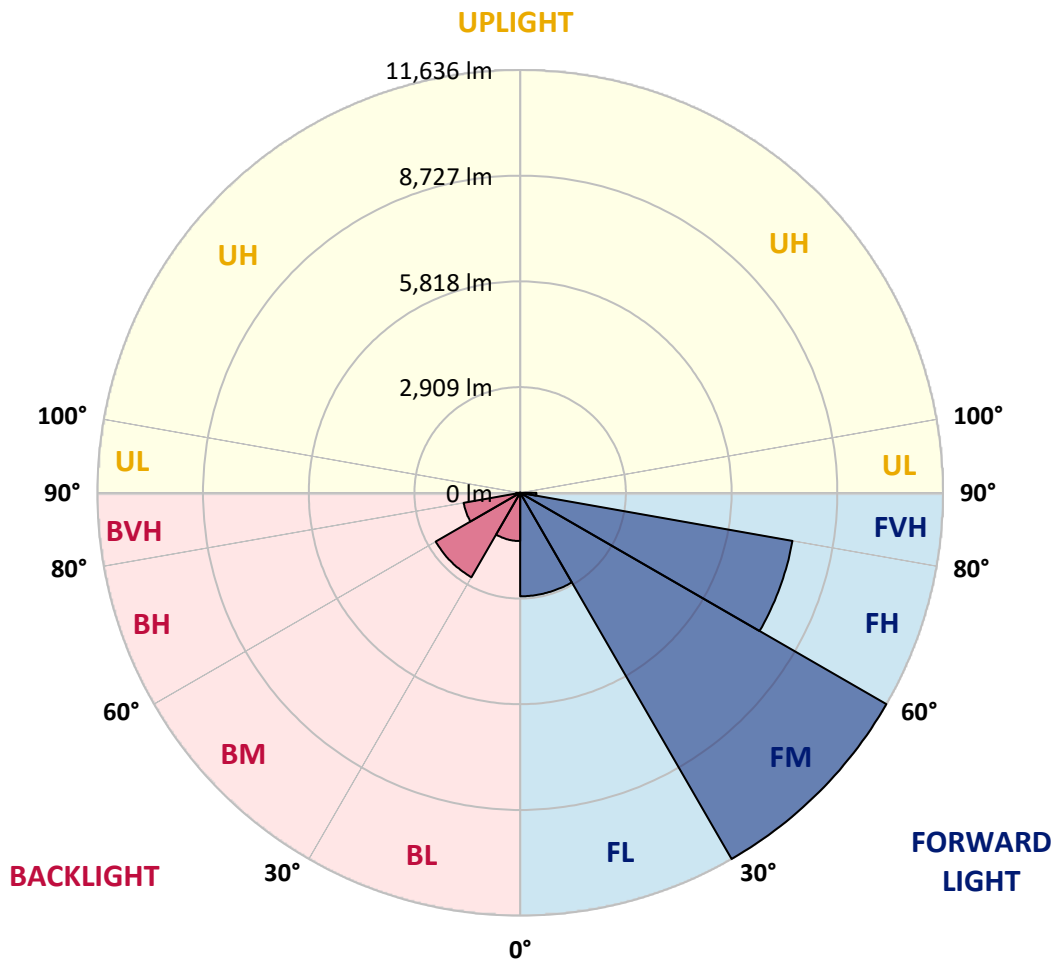
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2846.7	10.1			
FM	(30°-60°)	11636.4	41.2			
FH	(60°-80°)	7607.9	26.9			G4/12000
FVH	(80°-90°)	446.2	1.6			G3/500
BL	(0°-30°)	1327.9	4.7	B3/2500		
BM	(30°-60°)	2683.4	9.5	B3/5000		
BH	(60°-80°)	1579.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	105.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8
2.5°	5192.2	5178.1	5163.0	5144.3	5129.1	5082.4	5040.4	4959.8	4860.6	4855.9	4775.3
5°	5545.9	5523.7	5506.2	5473.5	5437.3	5354.4	5257.5	5122.1	4980.8	4958.6	4816.2
7.5°	5841.3	5818.0	5798.1	5756.1	5715.2	5613.6	5488.7	5306.6	5131.4	5087.1	4873.4
10°	6099.3	6076.0	6066.7	6021.1	5991.9	5881.0	5725.7	5528.4	5308.9	5241.2	4959.8
12.5°	6371.4	6346.9	6330.5	6282.7	6247.6	6129.7	5991.9	5771.3	5522.6	5450.2	5083.6
15°	6639.9	6617.7	6580.4	6554.7	6513.8	6391.2	6261.6	6031.6	5784.1	5693.0	5249.4
17.5°	6887.5	6868.8	6840.8	6818.6	6784.7	6657.4	6516.2	6321.2	6067.8	5955.7	5439.7
20°	7069.6	7070.8	7059.1	7047.4	7059.1	6955.2	6840.8	6623.6	6363.2	6232.4	5637.0
22.5°	7226.0	7235.4	7250.6	7268.1	7342.8	7291.4	7153.7	6977.4	6698.3	6544.2	5890.4
25°	7303.1	7310.1	7377.8	7492.3	7660.4	7659.2	7530.8	7403.5	7138.5	6978.5	6243.0
27.5°	7348.6	7358.0	7452.6	7682.6	7979.1	8024.7	7972.1	7916.1	7731.6	7571.6	6708.8
30°	7346.3	7359.1	7505.1	7793.5	8230.1	8461.3	8466.0	8672.7	8585.1	8475.3	7494.6
32.5°	7171.2	7175.8	7379.0	7804.0	8419.3	8849.0	9041.6	9583.4	9854.2	9874.1	8945.9
35°	6755.5	6815.1	7118.6	7709.4	8555.9	9228.4	9727.0	10747.4	11466.6	11500.5	10403.0
37.5°	6456.6	6492.8	6838.4	7540.1	8618.9	9624.2	10513.9	12145.0	12931.9	12849.0	11609.1
40°	6129.7	6174.1	6529.0	7313.6	8579.3	9964.0	11316.0	13486.5	14117.0	13987.4	12636.5
42.5°	5767.8	5805.1	6139.0	6978.5	8453.2	10209.2	12090.1	14645.9	15130.4	14971.7	13570.6
45°	5411.7	5436.2	5752.6	6526.7	8210.3	10358.6	12796.5	15689.7	16029.5	15895.2	14431.1
47.5°	4959.8	4989.0	5376.6	6095.8	7765.5	10353.9	13408.3	16617.9	16901.6	16752.2	15198.2
50°	3824.9	3843.6	4699.4	5704.7	7191.0	10148.5	13932.5	17458.6	17725.9	17555.5	15957.1
52.5°	3465.3	3480.5	3745.5	5217.8	6564.0	9722.3	14277.0	18233.8	18475.5	18293.4	16672.8
55°	3293.7	3304.2	3432.6	4246.4	6014.1	8991.4	14428.7	18951.9	19135.2	18899.3	17254.2
57.5°	3050.8	3071.9	3265.7	3637.0	5475.9	7869.4	14211.6	19532.2	19669.9	19438.8	17820.5
60°	2866.4	2879.2	3042.7	3336.9	4825.5	6614.2	13436.3	19924.5	20148.6	19939.6	18352.9
62.5°	2686.6	2691.2	2827.8	3113.9	4260.4	5676.7	12113.5	19899.9	20442.9	20313.3	18817.6
63°	2648.0	2652.7	2791.6	3073.0	4177.5	5521.4	11823.9	19840.4	20462.7	20344.8	18879.5
65°	2484.6	2491.6	2627.0	2886.2	3817.9	5029.9	10541.9	19473.8	20396.2	20392.7	18962.4
67.5°	2240.6	2253.4	2369.0	2590.8	3327.6	4408.7	8565.2	19082.6	19861.4	19903.4	18498.9
70°	1945.2	1954.5	2085.3	2272.1	2799.8	3743.2	6559.4	17832.2	18878.3	18761.6	17424.7
72.5°	1632.3	1648.6	1773.5	1918.3	2322.3	3088.2	4749.6	15699.0	17402.5	17488.9	15623.2
75°	1424.4	1433.8	1541.2	1643.9	1928.8	2457.7	3176.9	11272.8	15387.3	15409.5	13477.2
77.5°	1181.6	1193.2	1304.2	1401.1	1564.5	1850.6	2191.5	5858.8	10941.2	11562.4	10464.9
80°	651.5	756.6	939.9	1011.1	1132.5	1124.4	1394.1	3096.4	4841.9	6053.8	6912.0
82.5°	109.8	141.3	379.5	495.0	539.4	474.0	677.2	1704.6	2699.4	3097.5	3719.9
85°	46.7	67.7	198.5	217.2	135.4	131.9	267.4	892.0	1544.7	1779.4	1917.1
87.5°	5.8	10.5	51.4	67.7	31.5	43.2	53.7	279.0	538.2	618.8	699.4
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°	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8
2.5°	4736.8	4709.9	4648.1	4600.2	4565.2	4517.3	4465.9	4428.6	4388.9	4371.4	4378.4
5°	4743.8	4684.3	4552.3	4448.4	4332.8	4247.6	4136.7	4080.6	4019.9	3989.6	3988.4
7.5°	4762.5	4669.1	4461.3	4297.8	4133.2	4000.1	3855.3	3756.0	3702.3	3662.6	3658.0
10°	4809.2	4676.1	4392.4	4170.5	3958.0	3779.4	3603.1	3474.7	3401.1	3360.2	3366.1
12.5°	4893.3	4701.8	4343.3	4066.6	3793.4	3580.9	3355.6	3205.0	3115.1	3064.9	3078.9
15°	5008.8	4757.8	4293.1	3938.2	3617.1	3367.3	3126.7	2956.3	2855.9	2812.7	2826.7
17.5°	5138.4	4839.5	4258.1	3794.6	3431.5	3148.9	2925.9	2759.0	2590.8	2557.0	2557.0
20°	5283.2	4930.6	4252.3	3658.0	3248.2	2941.1	2684.2	2544.1	2300.1	2217.2	2199.7
22.5°	5474.7	5059.0	4245.3	3533.0	3053.2	2726.3	2411.0	2190.3	1873.9	1731.5	1717.5
25°	5738.6	5236.5	4256.9	3430.3	2875.7	2484.6	2035.1	1681.3	1415.1	1236.4	1227.1
27.5°	6092.3	5473.5	4294.3	3334.6	2698.2	2186.8	1576.2	1199.1	993.6	833.6	785.8
30°	6761.4	5848.3	4359.7	3249.3	2491.6	1787.5	1120.9	811.5	664.3	553.4	528.9
32.5°	8039.8	6789.4	4449.6	3154.8	2237.1	1317.0	748.4	541.7	422.7	358.4	372.5
35°	9314.8	7962.8	4878.1	3015.8	1902.0	876.8	499.7	345.6	266.2	263.9	279.0
37.5°	10463.7	9000.7	5457.2	2860.5	1453.6	589.6	300.1	230.0	223.0	242.9	273.2
40°	11416.4	9843.7	5946.4	2643.4	998.3	360.8	196.2	209.0	198.5	206.7	203.2
42.5°	12301.4	10602.6	6343.4	2397.0	588.5	207.8	170.5	193.8	178.6	171.6	157.6
45°	13097.7	11318.4	6543.0	2009.4	343.3	165.8	155.3	183.3	172.8	160.0	138.9
47.5°	13822.8	11946.5	6673.8	1479.3	197.3	144.8	144.8	164.6	162.3	147.1	135.4
50°	14574.7	12560.6	6660.9	908.4	167.0	133.1	137.8	137.8	145.9	114.4	103.9
52.5°	15239.0	13112.9	6394.7	514.9	154.1	126.1	124.9	112.1	119.1	88.7	82.9
55°	15778.4	13542.6	5947.6	339.8	145.9	124.9	109.8	96.9	91.1	64.2	66.6
57.5°	16308.5	13951.2	5263.4	268.5	151.8	120.3	100.4	82.9	71.2	50.2	47.9
60°	16819.9	14277.0	4538.3	241.7	160.0	120.3	82.9	70.1	47.9	38.5	33.9
62.5°	17129.3	14348.2	3736.2	218.3	164.6	112.1	74.7	57.2	35.0	25.7	23.4
63°	17151.5	14327.2	3593.8	214.8	165.8	112.1	74.7	54.9	33.9	23.4	21.0
65°	17117.6	14062.1	3038.0	203.2	169.3	107.4	71.2	44.4	26.9	16.3	14.0
67.5°	16551.4	13175.9	2252.2	190.3	162.3	106.2	65.4	36.2	21.0	10.5	8.2
70°	15165.5	11800.6	1505.0	169.3	156.5	103.9	77.1	30.4	17.5	5.8	4.7
72.5°	13229.7	10316.6	1007.6	138.9	136.6	85.2	46.7	25.7	12.8	2.3	0.0
75°	11181.7	8302.5	623.5	106.2	110.9	72.4	37.4	22.2	10.5	0.0	0.0
77.5°	8704.2	6133.2	443.7	67.7	78.2	61.9	31.5	18.7	8.2	0.0	0.0
80°	5938.2	4156.5	321.1	37.4	40.9	40.9	25.7	14.0	4.7	0.0	0.0
82.5°	3444.3	2329.3	163.5	18.7	17.5	21.0	11.7	7.0	1.2	0.0	0.0
85°	1680.1	1032.1	28.0	10.5	9.3	9.3	4.7	0.0	0.0	0.0	0.0
87.5°	569.8	267.4	3.5	4.7	3.5	1.2	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)