

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: P285765

Luminaire Tested: **USSL-XL-C047-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285765
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-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K 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: 25164.1 lumens
Efficiency: N/A
Efficacy: 143.0 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

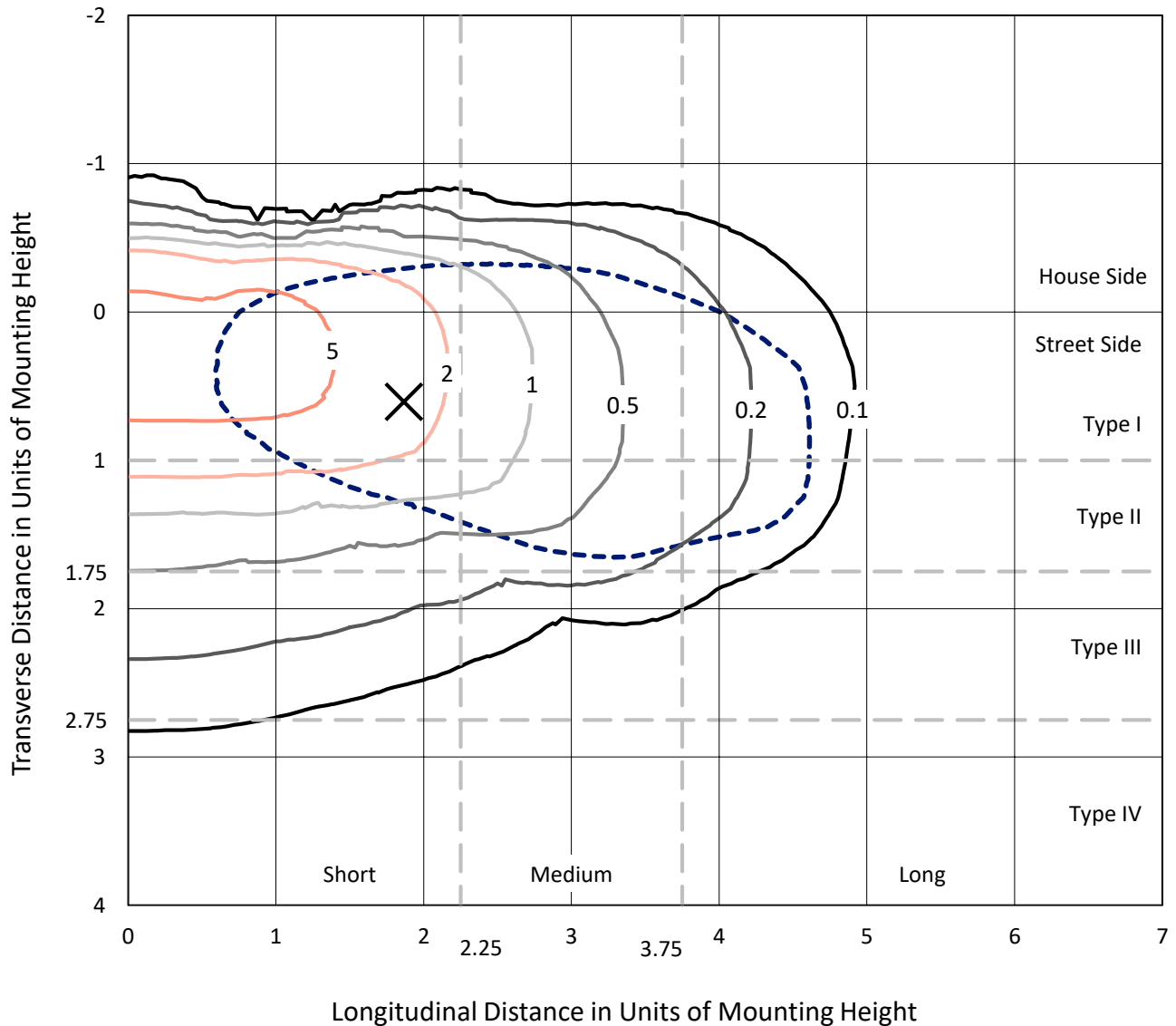


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

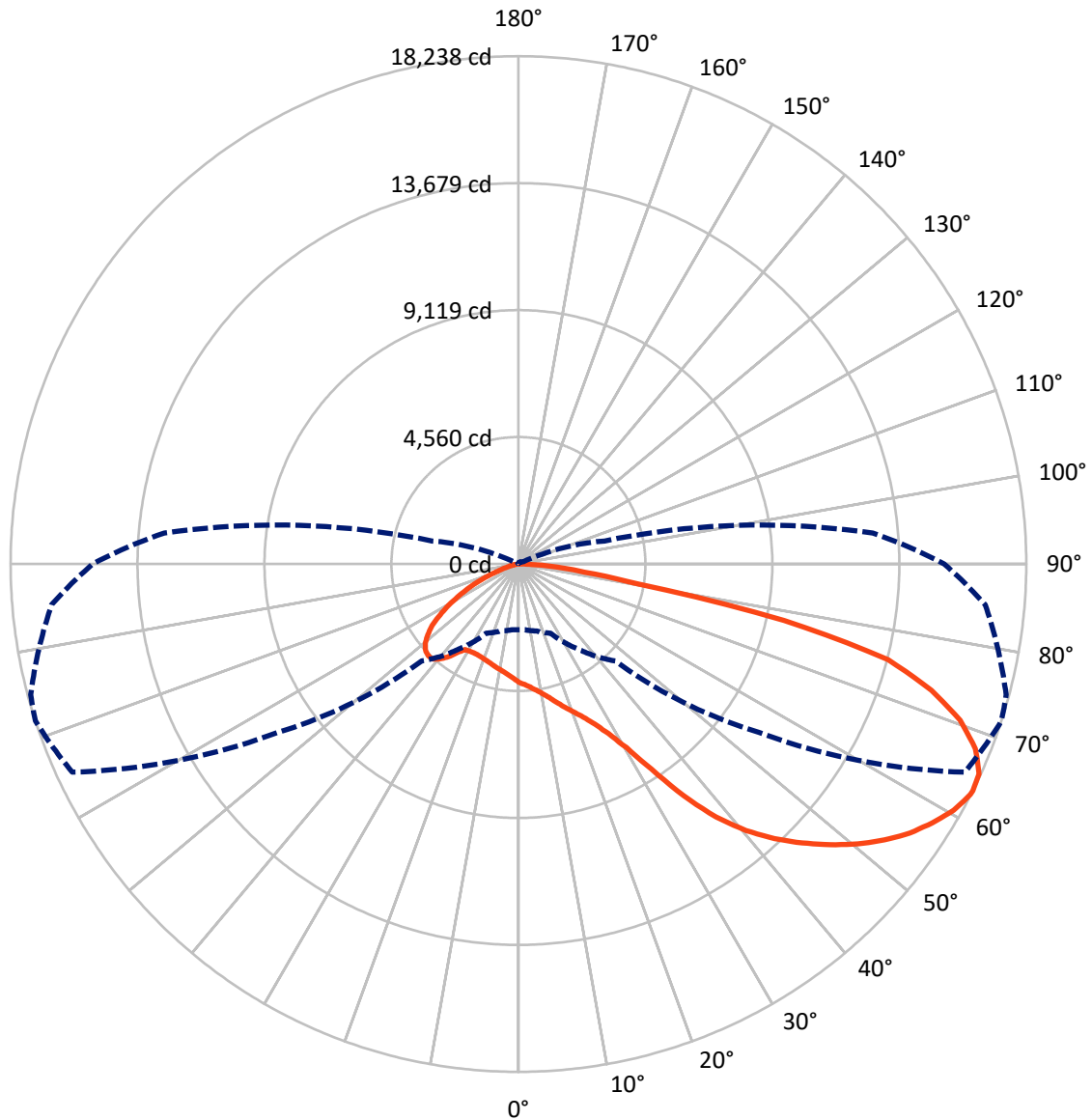


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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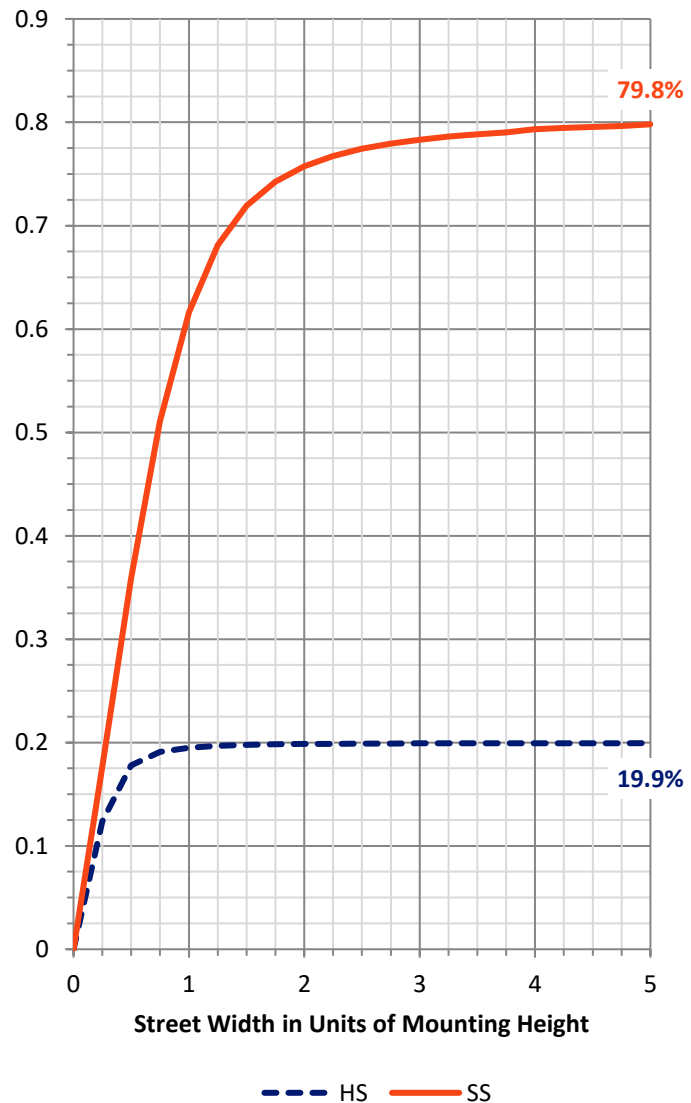
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5076.8	0.0	5076.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	20087.4	0.0	20087.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	25164.1	0.0	25164.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	1.6
10°-20°	1233.2	4.9
20°-30°	2080.8	8.3
30°-40°	3184.6	12.7
40°-50°	4436.6	17.6
50°-60°	5142.0	20.4
60°-70°	5041.0	20.0
70°-80°	3147.3	12.5
80°-90°	491.9	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°	25164.1	100.0
0°-180°	25164.1	100.0



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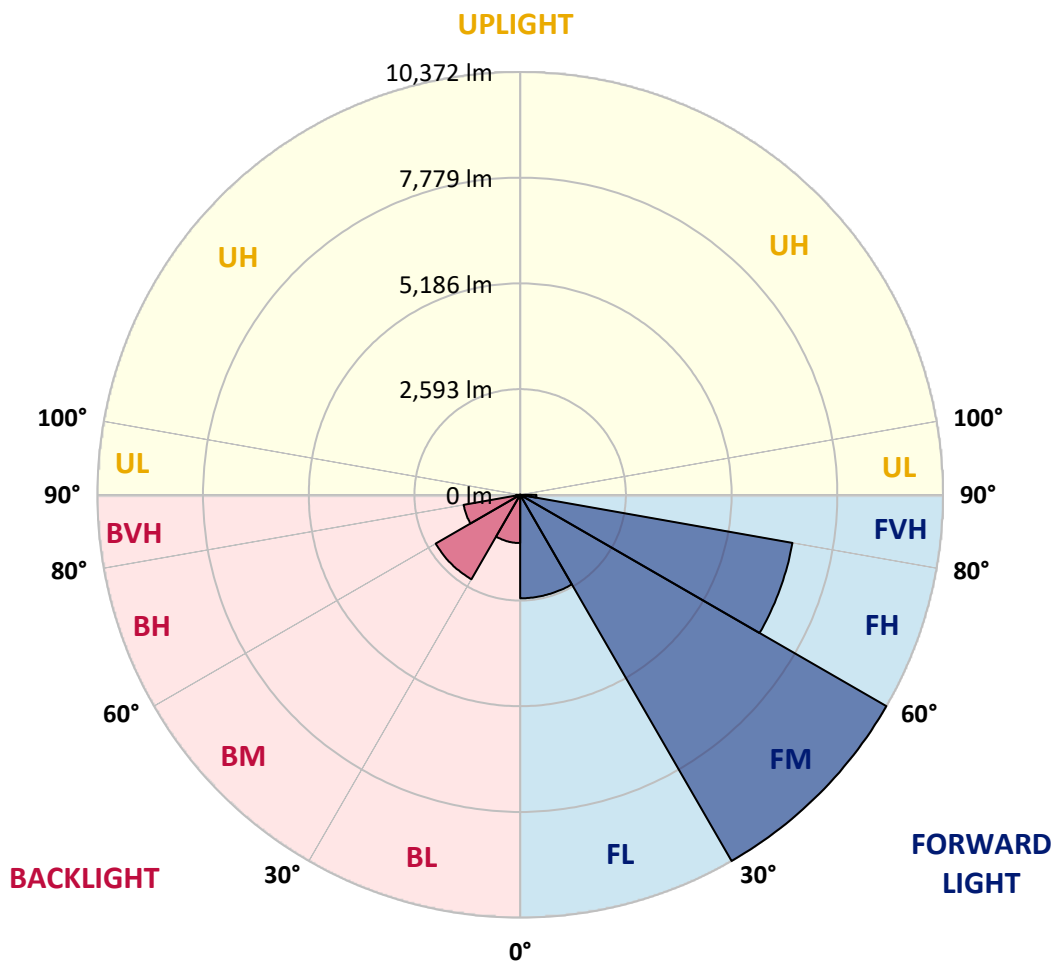
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2537.2	10.1			
FM	(30°-60°)	10371.5	41.2			
FH	(60°-80°)	6780.9	26.9			G3/7500
FVH	(80°-90°)	397.7	1.6			G3/500
BL	(0°-30°)	1183.5	4.7	B3/2500		
BM	(30°-60°)	2391.7	9.5	B2/2500		
BH	(60°-80°)	1407.3	5.6	B3/2500		G3/2500
BVH	(80°-90°)	94.3	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°	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4
2.5°	4627.7	4615.3	4601.8	4585.1	4571.6	4529.9	4492.5	4420.7	4332.2	4328.1	4256.2
5°	4943.1	4923.3	4907.8	4878.6	4846.3	4772.4	4686.0	4565.3	4439.4	4419.7	4292.7
7.5°	5206.3	5185.6	5167.9	5130.4	5094.0	5003.5	4892.1	4729.8	4573.7	4534.1	4343.7
10°	5436.3	5415.6	5407.2	5366.6	5340.6	5241.7	5103.3	4927.5	4731.8	4671.5	4420.7
12.5°	5678.8	5657.0	5642.4	5599.8	5568.5	5463.5	5340.6	5143.9	4922.3	4857.7	4531.0
15°	5918.2	5898.4	5865.1	5842.2	5805.8	5696.5	5581.0	5376.0	5155.4	5074.2	4678.8
17.5°	6138.8	6122.2	6097.2	6077.4	6047.3	5933.7	5807.8	5634.1	5408.2	5308.4	4848.4
20°	6301.1	6302.2	6291.8	6281.4	6291.8	6199.1	6097.2	5903.6	5671.5	5555.0	5024.2
22.5°	6440.6	6449.0	6462.4	6478.1	6544.7	6498.9	6376.0	6219.0	5970.2	5832.8	5250.1
25°	6509.3	6515.5	6575.8	6677.9	6827.7	6826.7	6712.2	6598.7	6362.6	6220.0	5564.4
27.5°	6549.9	6558.2	6642.5	6847.5	7111.8	7152.4	7105.6	7055.6	6891.2	6748.6	5979.5
30°	6547.7	6559.2	6689.3	6946.4	7335.6	7541.6	7545.7	7730.0	7651.9	7554.1	6679.9
32.5°	6391.7	6395.9	6576.9	6955.7	7504.1	7887.1	8058.8	8541.6	8783.1	8800.8	7973.5
35°	6021.2	6074.3	6344.9	6871.4	7625.9	8225.4	8669.7	9579.2	10220.2	10250.4	9272.2
37.5°	5754.8	5787.1	6095.1	6720.5	7682.0	8578.1	9371.1	10824.9	11526.3	11452.3	10347.2
40°	5463.5	5503.0	5819.3	6518.6	7646.8	8880.9	10086.0	12020.5	12582.5	12467.0	11262.9
42.5°	5140.8	5174.1	5471.7	6220.0	7534.3	9099.5	10775.9	13053.9	13485.8	13344.2	12095.5
45°	4823.4	4845.2	5127.3	5817.3	7317.9	9232.7	11405.6	13984.3	14287.1	14167.5	12862.4
47.5°	4420.7	4446.7	4792.2	5433.3	6921.4	9228.5	11950.8	14811.6	15064.5	14931.2	13546.2
50°	3409.2	3425.8	4188.6	5084.7	6409.3	9045.3	12418.1	15560.8	15799.2	15647.2	14222.6
52.5°	3088.7	3102.2	3338.4	4650.6	5850.5	8665.5	12725.1	16251.9	16467.2	16305.0	14860.5
55°	2935.7	2945.0	3059.5	3784.9	5360.4	8014.0	12860.4	16891.8	17055.3	16845.0	15378.7
57.5°	2719.2	2737.9	2910.7	3241.6	4880.6	7014.0	12666.9	17409.1	17531.9	17325.8	15883.4
60°	2554.8	2566.2	2712.0	2974.2	4301.0	5895.3	11975.8	17758.7	17958.5	17772.3	16358.0
62.5°	2394.5	2398.7	2520.4	2775.5	3797.3	5059.6	10796.8	17736.9	18220.7	18105.2	16772.2
63°	2360.2	2364.3	2488.2	2739.0	3723.4	4921.2	10538.7	17683.8	18238.4	18133.4	16827.3
65°	2214.6	2220.7	2341.4	2572.5	3402.9	4483.2	9396.0	17357.0	18179.2	18176.0	16901.3
67.5°	1997.1	2008.5	2111.5	2309.2	2965.8	3929.5	7634.2	17008.4	17702.6	17740.0	16488.1
70°	1733.7	1742.1	1858.6	2025.2	2495.5	3336.4	5846.4	15893.8	16826.3	16722.3	15530.7
72.5°	1454.8	1469.4	1580.7	1709.8	2069.9	2752.6	4233.3	13992.6	15510.9	15587.9	13925.0
75°	1269.5	1277.9	1373.6	1465.2	1719.2	2190.6	2831.6	10047.5	13714.8	13734.5	12012.3
77.5°	1053.1	1063.5	1162.4	1248.8	1394.5	1649.4	1953.3	5222.0	9751.9	10305.6	9327.3
80°	580.7	674.3	837.7	901.2	1009.4	1002.1	1242.5	2759.8	4315.6	5395.7	6160.7
82.5°	97.8	125.9	338.2	441.2	480.8	422.5	603.6	1519.4	2406.0	2760.8	3315.5
85°	41.7	60.3	176.9	193.5	120.7	117.5	238.3	795.0	1376.8	1585.9	1708.8
87.5°	5.2	9.3	45.8	60.3	28.1	38.5	47.9	248.8	479.7	551.6	623.3
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°	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4	4259.4
2.5°	4221.9	4197.9	4142.8	4100.1	4069.0	4026.2	3980.5	3947.2	3911.8	3896.2	3902.4
5°	4228.2	4175.1	4057.5	3964.9	3861.9	3785.9	3687.1	3637.0	3583.0	3555.9	3554.9
7.5°	4244.8	4161.6	3976.3	3830.7	3683.9	3565.3	3436.2	3347.8	3299.9	3264.5	3260.4
10°	4286.4	4167.8	3915.0	3717.2	3527.8	3368.6	3211.5	3097.0	3031.4	2995.0	3000.2
12.5°	4361.4	4190.7	3871.2	3624.5	3381.1	3191.7	2990.8	2856.5	2776.4	2731.7	2744.2
15°	4464.4	4240.7	3826.5	3510.1	3223.9	3001.2	2786.9	2634.9	2545.5	2507.0	2519.4
17.5°	4579.9	4313.5	3795.3	3382.1	3058.4	2806.6	2607.9	2459.1	2309.2	2279.0	2279.0
20°	4708.9	4394.7	3790.1	3260.4	2895.1	2621.5	2392.4	2267.6	2050.1	1976.2	1960.6
22.5°	4879.6	4509.1	3783.8	3149.0	2721.3	2429.9	2148.9	1952.2	1670.3	1543.3	1530.8
25°	5114.8	4667.4	3794.2	3057.4	2563.2	2214.6	1813.8	1498.5	1261.3	1102.1	1093.7
27.5°	5430.1	4878.6	3827.5	2972.1	2404.9	1949.2	1404.9	1068.7	885.5	743.0	700.4
30°	6026.4	5212.6	3885.8	2896.2	2220.7	1593.2	999.1	723.3	592.2	493.3	471.4
32.5°	7165.9	6051.4	3965.9	2811.8	1993.9	1173.8	667.1	482.9	376.7	319.5	332.0
35°	8302.3	7097.2	4347.8	2688.0	1695.2	781.6	445.4	308.0	237.3	235.2	248.8
37.5°	9326.3	8022.4	4864.0	2549.6	1295.6	525.5	267.4	205.0	198.7	216.4	243.6
40°	10175.5	8773.7	5300.0	2356.1	889.8	321.6	174.8	186.2	176.9	184.2	181.0
42.5°	10964.3	9450.2	5653.8	2136.4	524.4	185.3	151.9	172.8	159.2	152.9	140.4
45°	11674.1	10088.1	5831.8	1790.9	306.0	147.8	138.4	163.3	154.0	142.6	123.8
47.5°	12320.3	10648.0	5948.4	1318.5	175.8	129.0	129.0	146.7	144.7	131.1	120.7
50°	12990.5	11195.3	5936.9	809.7	148.8	118.6	122.8	122.8	130.0	102.0	92.6
52.5°	13582.6	11687.5	5699.6	458.9	137.4	112.3	111.4	99.9	106.1	79.1	73.9
55°	14063.4	12070.6	5301.1	302.8	130.0	111.4	97.8	86.4	81.2	57.2	59.4
57.5°	14535.8	12434.7	4691.2	239.3	135.2	107.2	89.5	73.9	63.5	44.7	42.7
60°	14991.6	12725.1	4045.0	215.4	142.6	107.2	73.9	62.4	42.7	34.3	30.2
62.5°	15267.4	12788.5	3330.1	194.6	146.7	99.9	66.6	51.0	31.3	22.9	20.8
63°	15287.1	12769.9	3203.1	191.5	147.8	99.9	66.6	48.9	30.2	20.8	18.8
65°	15256.9	12533.6	2707.7	181.0	150.9	95.7	63.5	39.5	24.0	14.5	12.5
67.5°	14752.3	11743.8	2007.5	169.6	144.7	94.6	58.3	32.2	18.8	9.3	7.3
70°	13517.0	10517.9	1341.4	150.9	139.5	92.6	68.7	27.0	15.6	5.2	4.1
72.5°	11791.6	9195.2	898.1	123.8	121.8	76.0	41.7	22.9	11.4	2.1	0.0
75°	9966.3	7400.1	555.7	94.6	98.9	64.5	33.3	19.8	9.3	0.0	0.0
77.5°	7758.0	5466.5	395.4	60.3	69.7	55.1	28.1	16.6	7.3	0.0	0.0
80°	5292.7	3704.7	286.2	33.3	36.5	36.5	22.9	12.5	4.1	0.0	0.0
82.5°	3069.9	2076.1	145.7	16.6	15.6	18.8	10.4	6.3	1.1	0.0	0.0
85°	1497.5	919.9	25.0	9.3	8.4	8.4	4.1	0.0	0.0	0.0	0.0
87.5°	507.8	238.3	3.1	4.1	3.1	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)