

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: P285774

Luminaire Tested: **USSL-XL-C06-D-U-T2-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285774
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-C06-D-U-T2-AP-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K 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: 47696.6 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

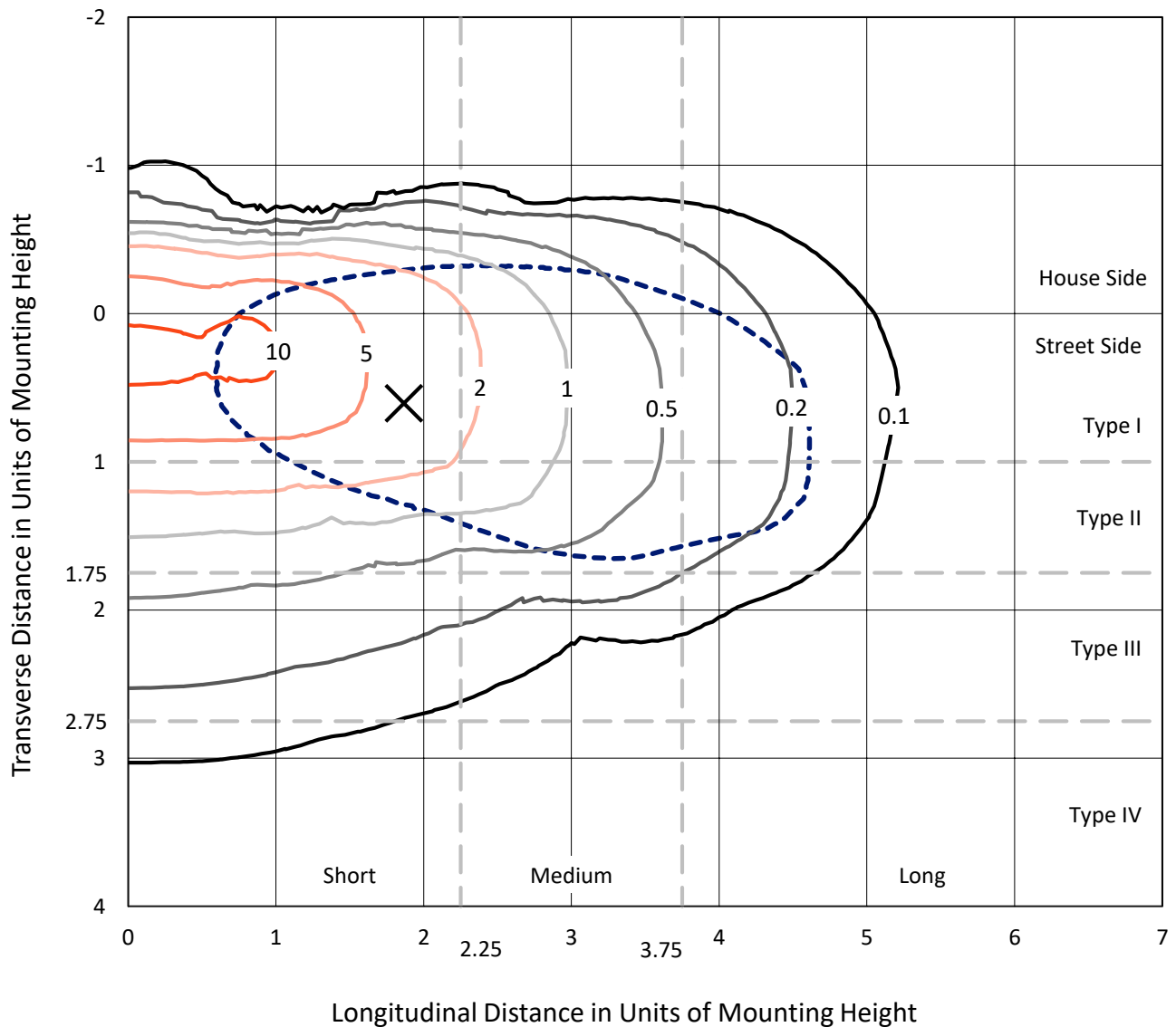
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

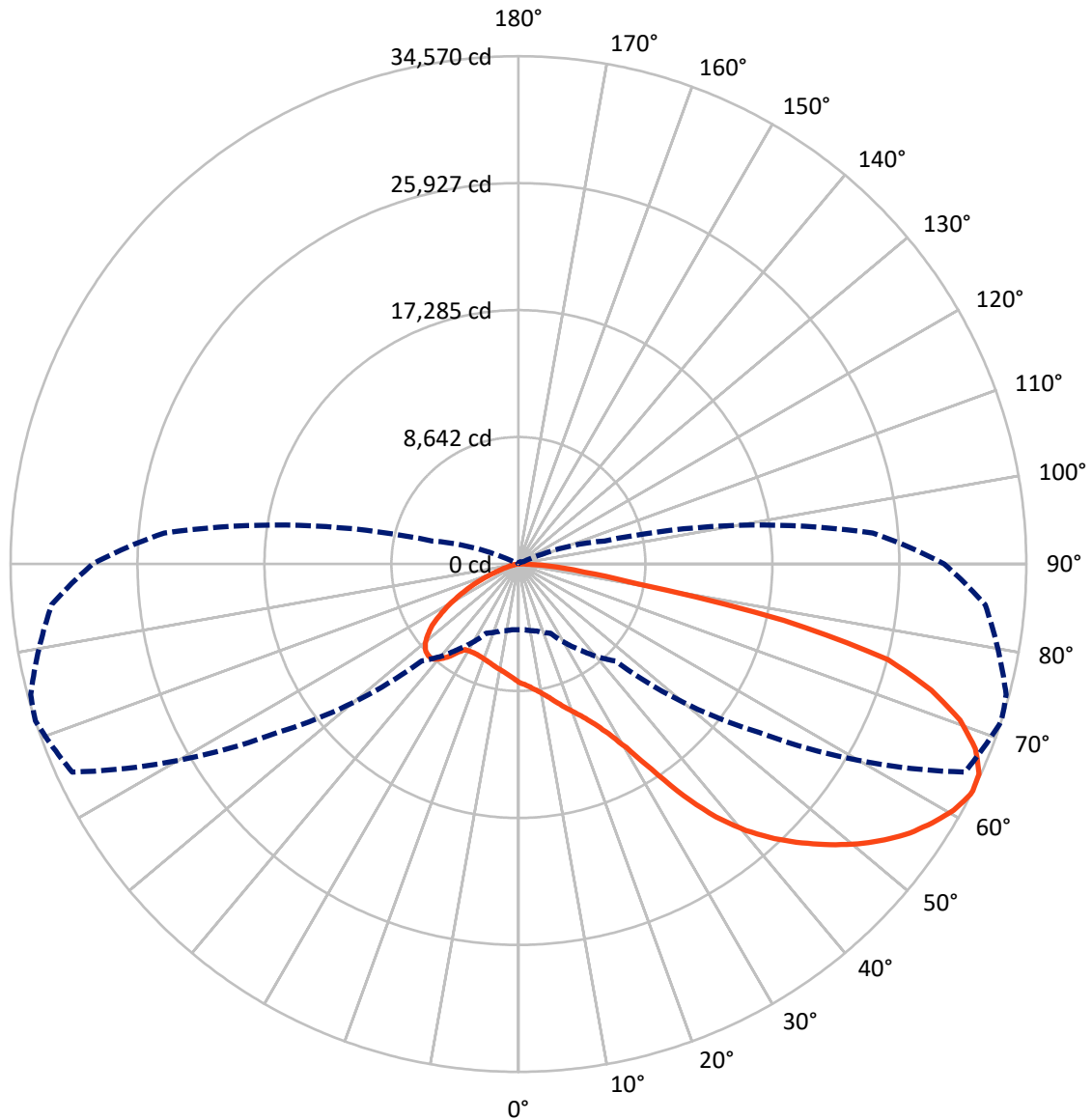
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 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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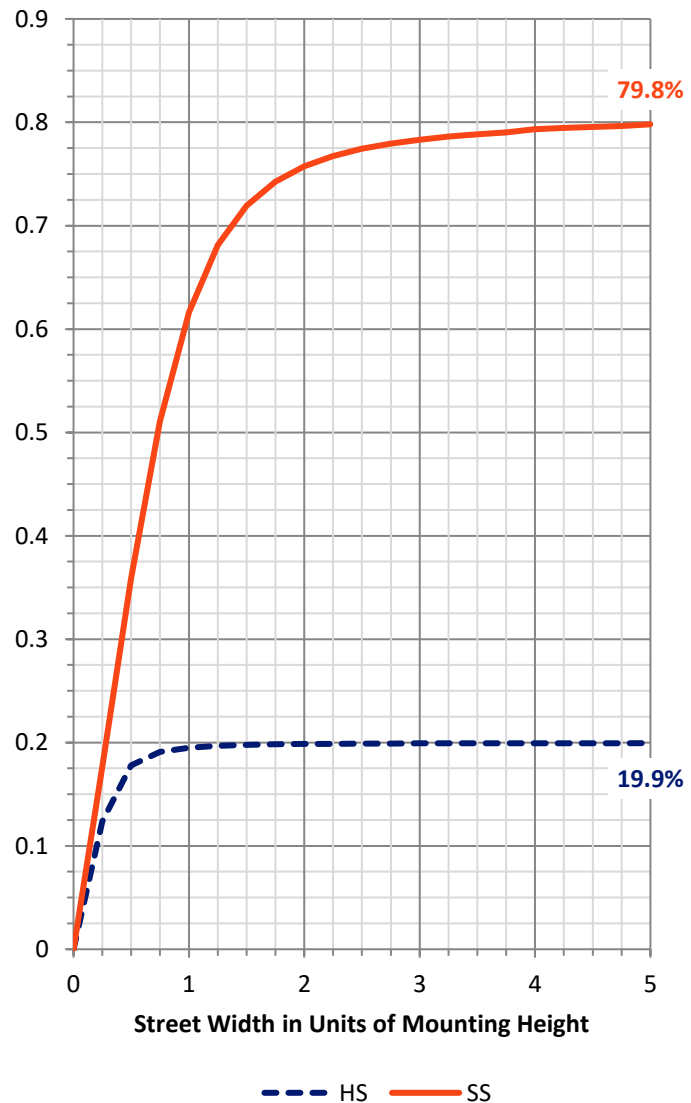
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9622.6	0.0	9622.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	38073.9	0.0	38073.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	47696.6	0.0	47696.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.9	1.6
10°-20°	2337.5	4.9
20°-30°	3944.0	8.3
30°-40°	6036.2	12.7
40°-50°	8409.1	17.6
50°-60°	9746.3	20.4
60°-70°	9554.8	20.0
70°-80°	5965.4	12.5
80°-90°	932.4	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°	47696.6	100.0
0°-180°	47696.6	100.0



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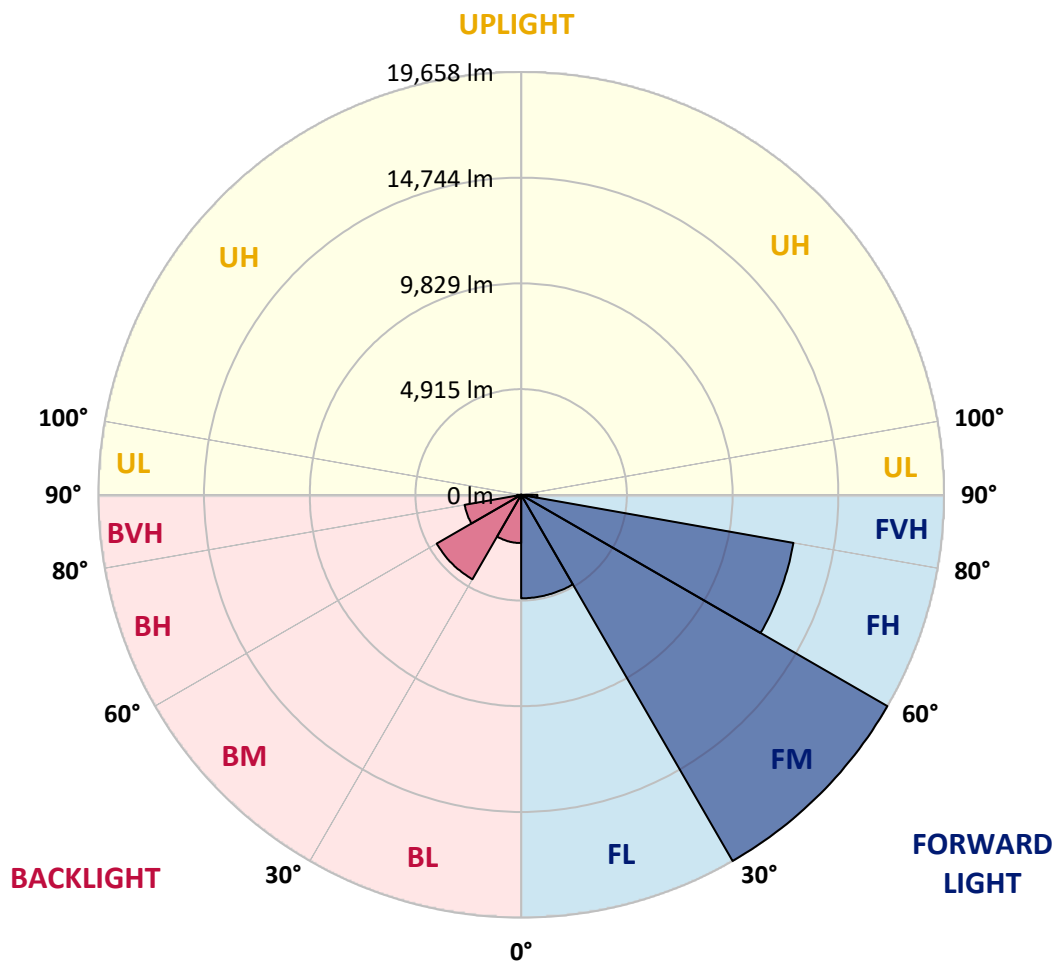
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4809.1	10.1			
FM	(30°-60°)	19658.4	41.2			
FH	(60°-80°)	12852.7	26.9			G5
FVH	(80°-90°)	753.7	1.6			G5
BL	(0°-30°)	2243.3	4.7	B3/2500		
BM	(30°-60°)	4533.2	9.5	B3/5000		
BH	(60°-80°)	2667.5	5.6	B4/5000		G4/5000
BVH	(80°-90°)	178.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4
2.5°	8771.5	8747.9	8722.2	8690.7	8665.1	8586.1	8515.1	8379.0	8211.4	8203.5	8067.4
5°	9369.2	9331.8	9302.2	9246.9	9185.8	9045.7	8882.1	8653.2	8414.5	8377.0	8136.4
7.5°	9868.3	9828.8	9795.3	9724.3	9655.3	9483.7	9272.5	8964.8	8669.0	8594.1	8233.1
10°	10304.1	10264.7	10248.9	10172.1	10122.7	9935.3	9673.0	9339.6	8968.8	8854.4	8379.0
12.5°	10763.8	10722.4	10694.7	10613.8	10554.7	10355.4	10122.7	9749.9	9329.8	9207.5	8588.2
15°	11217.5	11179.9	11116.9	11073.4	11004.4	10797.3	10578.3	10189.8	9771.6	9617.7	8868.2
17.5°	11635.6	11604.0	11556.7	11519.2	11462.0	11247.0	11008.3	10678.9	10250.9	10061.5	9189.8
20°	11943.3	11945.3	11925.6	11905.9	11925.6	11750.1	11556.7	11189.8	10749.9	10529.0	9523.1
22.5°	12207.6	12223.4	12249.1	12278.6	12404.9	12318.1	12085.3	11787.5	11316.0	11055.7	9951.1
25°	12337.8	12349.6	12464.0	12657.3	12941.4	12939.4	12722.4	12507.5	12059.6	11789.5	10546.7
27.5°	12414.7	12430.5	12590.2	12978.9	13479.8	13556.8	13468.0	13373.4	13061.7	12791.5	11333.8
30°	12410.8	12432.5	12679.1	13166.2	13904.0	14294.4	14302.4	14651.5	14503.6	14318.2	12661.2
32.5°	12114.9	12122.8	12466.0	13184.0	14223.4	14949.4	15274.9	16190.1	16647.6	16681.1	15113.0
35°	11412.7	11513.3	12026.2	13024.3	14454.3	15590.4	16432.7	18156.6	19371.6	19428.8	17574.7
37.5°	10907.7	10968.9	11552.8	12738.2	14560.8	16259.1	17762.1	20517.7	21847.1	21707.1	19612.3
40°	10355.4	10430.4	11030.1	12355.6	14493.7	16833.0	19117.2	22784.0	23849.1	23630.2	21348.1
42.5°	9744.0	9807.1	10371.2	11789.5	14280.7	17247.2	20424.9	24742.6	25561.2	25292.9	22926.1
45°	9142.4	9183.8	9718.3	11026.1	13870.4	17499.8	21618.3	26506.1	27080.0	26853.2	24379.7
47.5°	8379.0	8428.3	9083.2	10298.3	13118.9	17491.8	22651.9	28074.2	28553.5	28301.0	25675.7
50°	6461.8	6493.4	7939.2	9637.5	12148.5	17144.7	23537.5	29494.4	29946.0	29658.0	26957.7
52.5°	5854.3	5879.9	6327.7	8815.0	11089.2	16424.7	24119.4	30804.1	31212.4	30904.7	28166.8
55°	5564.4	5582.1	5799.0	7173.8	10160.2	15190.0	24375.8	32017.1	32326.8	31928.3	29149.2
57.5°	5154.1	5189.6	5517.0	6144.2	9250.9	13294.4	24008.9	32997.4	33230.2	32839.6	30105.8
60°	4842.4	4864.1	5140.3	5637.3	8152.2	11174.0	22699.1	33660.2	34038.9	33685.8	31005.3
62.5°	4538.7	4546.5	4777.3	5260.6	7197.6	9590.2	20464.3	33618.8	34536.0	34317.0	31790.3
63°	4473.5	4481.5	4716.1	5191.5	7057.5	9327.8	19975.2	33518.2	34569.5	34370.2	31894.8
65°	4197.4	4209.3	4438.0	4876.0	6450.0	8497.4	17809.4	32898.8	34457.0	34451.2	32034.8
67.5°	3785.2	3806.8	4002.2	4376.9	5621.5	7448.0	14470.1	32238.0	33553.7	33624.7	31251.8
70°	3286.1	3301.9	3522.8	3838.4	4730.0	6323.8	11081.4	30125.5	31892.8	31695.6	29437.1
72.5°	2757.5	2785.1	2996.2	3240.8	3923.2	5217.1	8024.0	26521.8	29399.6	29545.7	26393.6
75°	2406.4	2422.2	2603.6	2777.3	3258.6	4152.1	5367.1	19044.2	25995.2	26032.6	22768.2
77.5°	1996.1	2015.8	2203.2	2367.0	2643.1	3126.4	3702.3	9897.9	18484.0	19533.3	17679.2
80°	1100.6	1278.1	1587.8	1708.1	1913.3	1899.4	2355.1	5231.0	8179.8	10227.3	11677.0
82.5°	185.4	238.7	641.0	836.4	911.3	800.9	1144.1	2879.9	4560.3	5232.9	6284.3
85°	78.9	114.4	335.4	366.8	228.8	222.9	451.7	1507.0	2609.6	3006.1	3238.8
87.5°	9.9	17.7	86.8	114.4	53.2	73.0	90.7	471.4	909.3	1045.4	1181.5
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°	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4	8073.4
2.5°	8002.4	7957.0	7852.4	7771.5	7712.4	7631.5	7544.7	7481.6	7414.5	7385.0	7396.7
5°	8014.1	7913.5	7690.6	7515.1	7319.9	7175.8	6988.5	6893.8	6791.2	6739.9	6738.0
7.5°	8045.7	7887.9	7536.8	7260.6	6982.5	6757.7	6513.1	6345.4	6254.7	6187.6	6179.7
10°	8124.6	7899.8	7420.5	7045.7	6686.7	6384.8	6087.0	5870.0	5745.8	5676.7	5686.7
12.5°	8266.6	7943.1	7337.6	6870.1	6408.6	6049.6	5668.9	5414.4	5262.5	5177.7	5201.4
15°	8461.9	8037.9	7252.8	6653.1	6110.7	5688.6	5282.2	4994.2	4824.7	4751.6	4775.4
17.5°	8680.8	8175.9	7193.6	6410.5	5797.1	5319.7	4943.1	4660.9	4376.9	4319.7	4319.7
20°	8925.4	8329.8	7183.7	6179.7	5487.4	4968.6	4534.7	4298.0	3885.8	3745.7	3716.1
22.5°	9248.9	8546.7	7171.9	5968.7	5158.0	4605.7	4073.2	3700.3	3165.8	2925.2	2901.5
25°	9694.7	8846.6	7191.6	5795.1	4858.2	4197.4	3438.0	2840.3	2390.6	2088.9	2073.1
27.5°	10292.4	9246.9	7254.7	5633.4	4558.4	3694.4	2662.8	2025.7	1678.6	1408.4	1327.5
30°	11422.5	9880.1	7365.2	5489.4	4209.3	3019.9	1893.6	1370.9	1122.3	934.9	893.5
32.5°	13582.4	11469.9	7517.1	5329.6	3779.3	2224.9	1264.4	915.2	714.1	605.5	629.3
35°	15736.3	13452.3	8240.9	5094.9	3213.2	1481.3	844.2	583.9	449.7	445.8	471.4
37.5°	17677.2	15205.7	9219.3	4832.5	2455.7	996.1	507.0	388.6	376.8	410.3	461.6
40°	19286.8	16629.9	10045.8	4465.7	1686.5	609.4	331.3	353.1	335.4	349.1	343.2
42.5°	20782.0	17912.0	10716.4	4049.5	994.1	351.1	288.0	327.4	301.8	290.0	266.2
45°	22127.1	19121.1	11053.7	3394.6	579.9	280.1	262.3	309.7	291.9	270.3	234.8
47.5°	23352.0	20182.3	11274.7	2499.1	333.3	244.6	244.6	278.1	274.2	248.5	228.8
50°	24622.3	21219.8	11253.0	1534.6	282.0	224.9	232.8	232.8	246.5	193.3	175.5
52.5°	25744.7	22152.8	10803.2	869.9	260.4	213.0	211.0	189.4	201.2	149.9	140.0
55°	26656.0	22878.7	10047.7	573.9	246.5	211.0	185.4	163.8	153.9	108.5	112.5
57.5°	27551.5	23569.0	8891.9	453.6	256.4	203.2	169.6	140.0	120.3	84.8	80.9
60°	28415.4	24119.4	7667.0	408.3	270.3	203.2	140.0	118.4	80.9	65.1	57.2
62.5°	28938.1	24239.7	6311.9	368.8	278.1	189.4	126.2	96.7	59.1	43.3	39.4
63°	28975.5	24204.2	6071.2	362.9	280.1	189.4	126.2	92.7	57.2	39.4	35.5
65°	28918.4	23756.4	5132.4	343.2	286.0	181.5	120.3	74.9	45.4	27.7	23.6
67.5°	27961.8	22259.3	3804.9	321.5	274.2	179.5	110.4	61.2	35.5	17.7	13.8
70°	25620.4	19935.8	2542.5	286.0	264.3	175.5	130.2	51.3	29.6	9.9	7.8
72.5°	22350.0	17428.8	1702.2	234.8	230.7	144.0	78.9	43.3	21.7	3.9	0.0
75°	18890.4	14026.2	1053.3	179.5	187.4	122.3	63.2	37.5	17.7	0.0	0.0
77.5°	14704.7	10361.4	749.6	114.4	132.2	104.5	53.2	31.6	13.8	0.0	0.0
80°	10032.0	7021.9	542.5	63.2	69.0	69.0	43.3	23.6	7.8	0.0	0.0
82.5°	5818.7	3935.1	276.1	31.6	29.6	35.5	19.7	11.9	2.0	0.0	0.0
85°	2838.4	1743.6	47.4	17.7	15.8	15.8	7.8	0.0	0.0	0.0	0.0
87.5°	962.6	451.7	5.9	7.8	5.9	2.0	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)