

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: P285772

Luminaire Tested: **USSL-XL-C04-D-U-T2-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285772
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-C04-D-U-T2-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K 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: 33609 lumens
Efficiency: N/A
Efficacy: 127.3 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 - G4

Input Watts (W): 264
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

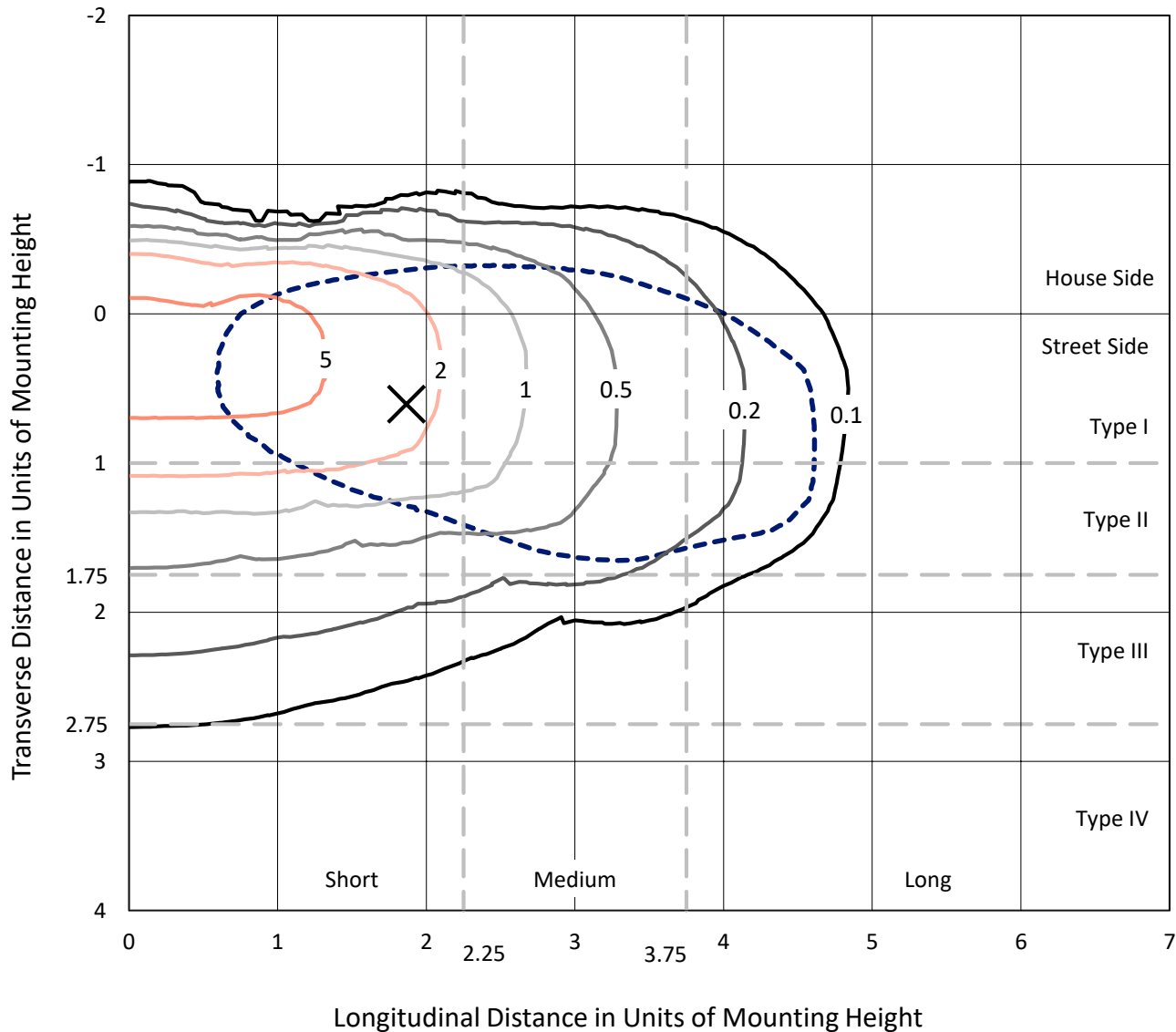


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Iso-Footcandle Lines of Horizontal Illumination

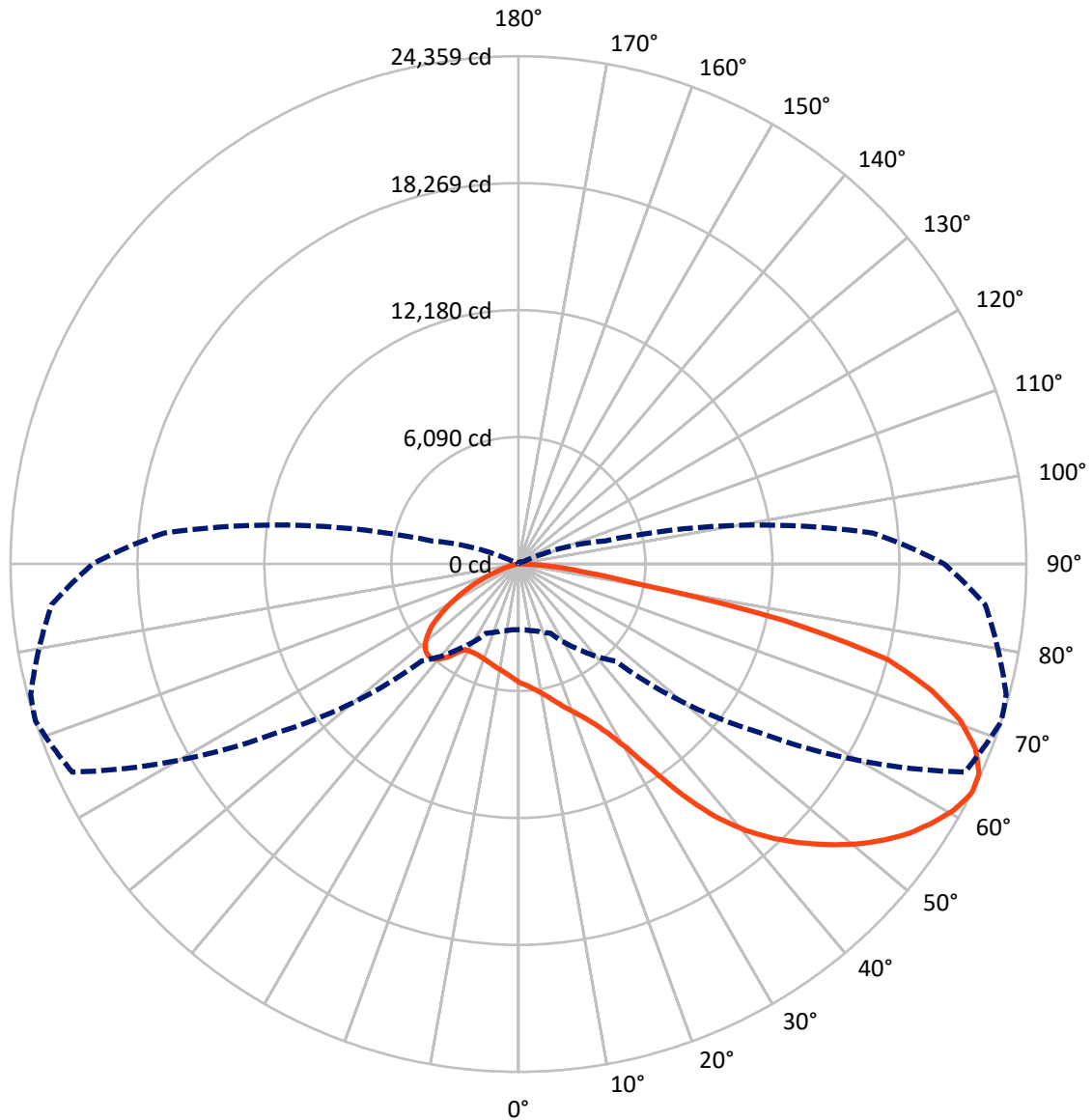
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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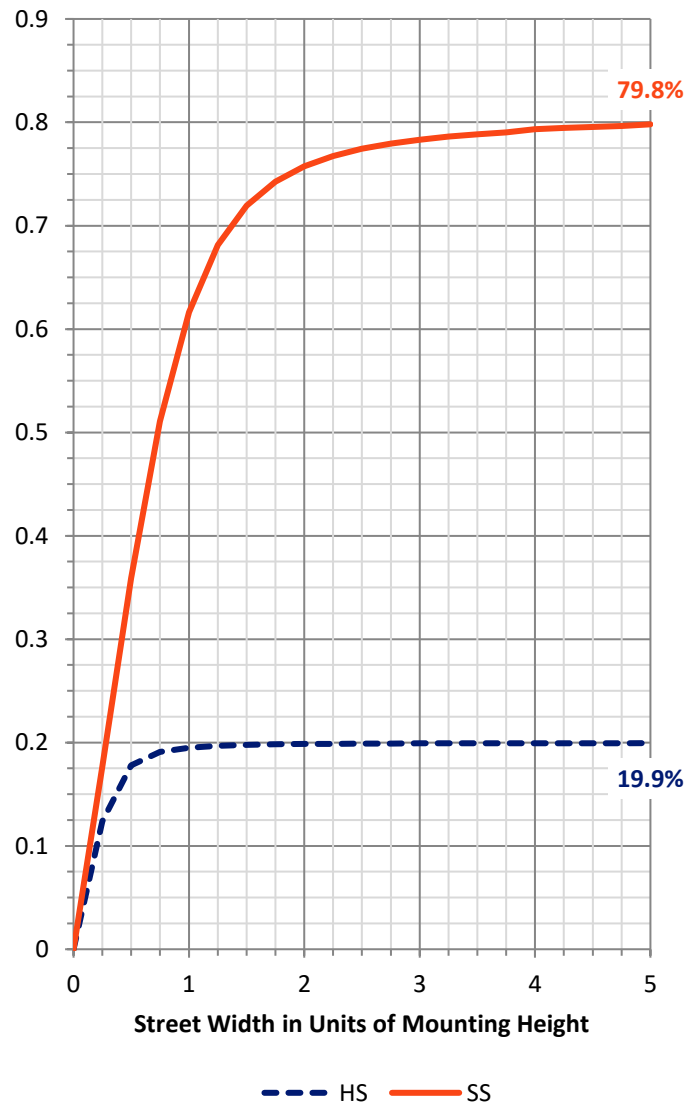
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6780.5	0.0	6780.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	26828.5	0.0	26828.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	33609.0	0.0	33609.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.2	1.6
10°-20°	1647.1	4.9
20°-30°	2779.1	8.3
30°-40°	4253.3	12.7
40°-50°	5925.4	17.6
50°-60°	6867.7	20.4
60°-70°	6732.7	20.0
70°-80°	4203.5	12.5
80°-90°	657.0	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°	33609.0	100.0
0°-180°	33609.0	100.0



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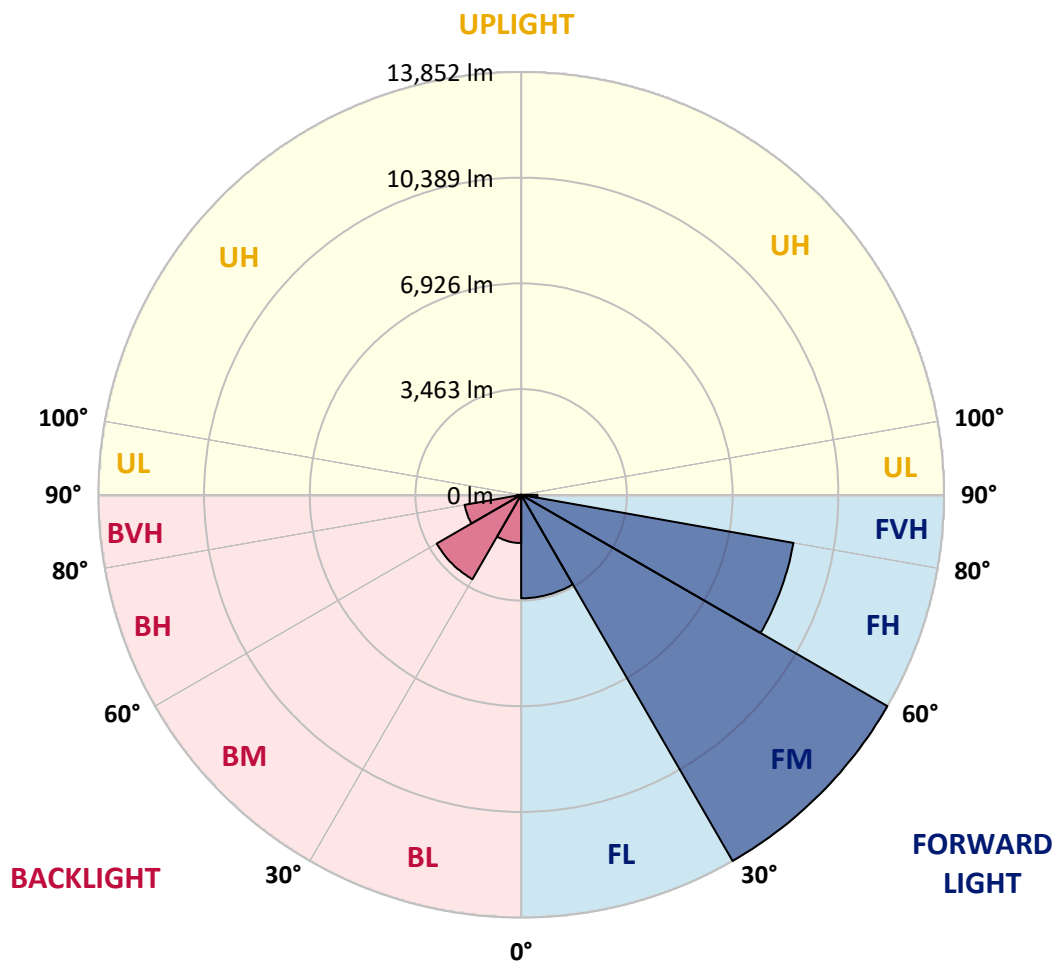
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3388.7	10.1			
FM	(30°-60°)	13852.1	41.2			
FH	(60°-80°)	9056.6	26.9			G4/12000
FVH	(80°-90°)	531.1	1.6			G4/750
BL	(0°-30°)	1580.7	4.7	B3/2500		
BM	(30°-60°)	3194.3	9.5	B3/5000		
BH	(60°-80°)	1879.6	5.6	B3/2500		G3/2500
BVH	(80°-90°)	125.9	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°	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8
2.5°	6180.8	6164.1	6146.1	6123.8	6105.8	6050.2	6000.1	5904.2	5786.1	5780.5	5684.6
5°	6602.0	6575.5	6554.7	6515.8	6472.7	6374.0	6258.7	6097.4	5929.2	5902.8	5733.3
7.5°	6953.6	6925.8	6902.2	6852.1	6803.5	6682.6	6533.8	6317.0	6108.5	6055.7	5801.4
10°	7260.8	7233.0	7221.8	7167.6	7132.9	7000.8	6816.0	6581.1	6319.8	6239.2	5904.2
12.5°	7584.6	7555.4	7536.0	7479.0	7437.3	7296.9	7132.9	6870.2	6574.2	6488.0	6051.6
15°	7904.3	7877.9	7833.4	7802.8	7754.2	7608.2	7454.0	7180.1	6885.5	6777.1	6248.9
17.5°	8198.9	8176.7	8143.3	8116.9	8076.6	7925.1	7756.9	7524.8	7223.2	7089.8	6475.5
20°	8415.8	8417.1	8403.2	8389.3	8403.2	8279.5	8143.3	7884.8	7574.9	7419.2	6710.4
22.5°	8602.0	8613.1	8631.2	8652.0	8741.0	8679.8	8515.8	8306.0	7973.8	7790.3	7012.0
25°	8693.7	8702.1	8782.7	8918.9	9119.0	9117.6	8964.8	8813.3	8497.8	8307.3	7431.7
27.5°	8747.9	8759.1	8871.6	9145.4	9498.5	9552.7	9490.1	9423.4	9203.8	9013.4	7986.3
30°	8745.2	8760.4	8934.2	9277.5	9797.3	10072.5	10078.1	10324.1	10219.8	10089.2	8921.7
32.5°	8536.7	8542.2	8784.1	9290.0	10022.5	10533.9	10763.3	11408.2	11730.6	11754.3	10649.3
35°	8041.9	8112.8	8474.1	9177.4	10185.1	10985.6	11579.1	12793.9	13650.1	13690.4	12383.9
37.5°	7686.1	7729.1	8140.6	8975.9	10260.1	11456.8	12515.9	14457.6	15394.4	15295.7	13819.6
40°	7296.9	7349.7	7772.2	8706.2	10212.9	11861.3	13470.8	16054.6	16805.1	16650.8	15042.7
42.5°	6866.0	6910.5	7308.0	8307.3	10062.8	12153.2	14392.3	17434.7	18011.5	17822.5	16154.6
45°	6442.1	6471.3	6848.0	7769.5	9773.7	12331.1	15233.1	18677.3	19081.7	18921.9	17179.0
47.5°	5904.2	5939.0	6400.4	7256.6	9244.1	12325.5	15961.4	19782.2	20120.0	19942.1	18092.1
50°	4553.3	4575.5	5594.3	6791.0	8560.3	12080.9	16585.5	20782.9	21101.2	20898.3	18995.6
52.5°	4125.2	4143.2	4458.8	6211.4	7813.9	11573.6	16995.5	21705.8	21993.5	21776.7	19847.6
55°	3920.9	3933.4	4086.3	5055.0	7159.3	10703.5	17176.2	22560.6	22778.8	22498.1	20539.7
57.5°	3631.8	3656.8	3887.5	4329.5	6518.6	9367.8	16917.7	23251.4	23415.4	23140.2	21213.8
60°	3412.2	3427.5	3622.0	3972.3	5744.4	7873.7	15994.8	23718.4	23985.2	23736.5	21847.6
62.5°	3198.1	3203.7	3366.3	3706.8	5071.7	6757.6	14420.1	23689.2	24335.5	24181.2	22400.8
63°	3152.3	3157.8	3323.2	3658.2	4973.0	6572.8	14075.4	23618.3	24359.1	24218.7	22474.4
65°	2957.7	2966.0	3127.2	3435.8	4544.9	5987.6	12549.3	23181.9	24279.9	24275.7	22573.1
67.5°	2667.2	2682.5	2820.1	3084.2	3961.2	5248.2	10196.2	22716.3	23643.3	23693.4	22021.3
70°	2315.5	2326.7	2482.3	2704.7	3332.9	4456.0	7808.4	21227.7	22473.0	22334.1	20742.6
72.5°	1943.1	1962.5	2111.2	2283.6	2764.5	3676.2	5654.1	18688.4	20716.2	20819.1	18598.0
75°	1695.7	1706.8	1834.6	1957.0	2296.1	2925.7	3781.9	13419.3	18317.3	18343.7	16043.4
77.5°	1406.6	1420.5	1552.5	1667.9	1862.4	2203.0	2608.8	6974.4	13024.6	13764.0	12457.5
80°	775.6	900.6	1118.9	1203.6	1348.2	1338.5	1659.5	3686.0	5763.9	7206.6	8228.1
82.5°	130.6	168.2	451.7	589.3	642.1	564.3	806.1	2029.2	3213.4	3687.4	4428.2
85°	55.6	80.6	236.3	258.5	161.2	157.1	318.3	1061.9	1838.8	2118.2	2282.2
87.5°	6.9	12.5	61.2	80.6	37.5	51.4	63.9	332.2	640.7	736.6	832.5
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°	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8	5688.8
2.5°	5638.8	5606.8	5533.1	5476.1	5434.4	5377.5	5316.3	5271.8	5224.6	5203.7	5212.1
5°	5647.1	5576.2	5419.2	5295.5	5157.9	5056.4	4924.4	4857.6	4785.4	4749.2	4747.8
7.5°	5669.3	5558.1	5310.7	5116.2	4920.2	4761.7	4589.4	4471.3	4407.3	4360.1	4354.5
10°	5724.9	5566.5	5228.7	4964.7	4711.7	4499.1	4289.2	4136.3	4048.7	4000.1	4007.0
12.5°	5825.0	5597.1	5170.4	4841.0	4515.7	4262.8	3994.5	3815.2	3708.2	3648.4	3665.1
15°	5962.6	5663.8	5110.6	4688.1	4305.9	4008.4	3722.1	3519.2	3399.7	3348.2	3364.9
17.5°	6116.9	5761.1	5068.9	4517.1	4084.9	3748.5	3483.1	3284.3	3084.2	3043.8	3043.8
20°	6289.2	5869.5	5062.0	4354.5	3866.7	3501.1	3195.3	3028.6	2738.1	2639.4	2618.5
22.5°	6517.2	6022.4	5053.6	4205.8	3634.5	3245.4	2870.1	2607.4	2230.8	2061.2	2044.5
25°	6831.3	6233.6	5067.5	4083.5	3423.3	2957.7	2422.6	2001.4	1684.5	1471.9	1460.8
27.5°	7252.4	6515.8	5112.0	3969.5	3212.0	2603.3	1876.3	1427.4	1182.8	992.4	935.4
30°	8048.8	6961.9	5189.8	3868.0	2966.0	2127.9	1334.3	966.0	790.8	658.8	629.6
32.5°	9570.7	8082.2	5296.9	3755.5	2663.0	1567.8	890.9	644.9	503.1	426.7	443.4
35°	11088.5	9479.0	5806.9	3590.1	2264.1	1043.8	594.9	411.4	316.9	314.1	332.2
37.5°	12456.1	10714.6	6496.3	3405.2	1730.4	701.9	357.2	273.8	265.5	289.1	325.2
40°	13590.3	11718.1	7078.7	3146.7	1188.4	429.5	233.5	248.8	236.3	246.0	241.8
42.5°	14643.8	12621.5	7551.2	2853.4	700.5	247.4	202.9	230.7	212.7	204.3	187.6
45°	15591.7	13473.5	7788.9	2392.0	408.6	197.4	184.9	218.2	205.7	190.4	165.4
47.5°	16454.8	14221.3	7944.6	1761.0	234.9	172.3	172.3	196.0	193.2	175.1	161.2
50°	17349.9	14952.4	7929.3	1081.3	198.8	158.4	164.0	164.0	173.7	136.2	123.7
52.5°	18140.8	15609.8	7612.4	612.9	183.5	150.1	148.7	133.4	141.8	105.6	98.7
55°	18782.9	16121.3	7080.1	404.5	173.7	148.7	130.6	115.4	108.4	76.4	79.2
57.5°	19413.9	16607.7	6265.6	319.7	180.7	143.2	119.5	98.7	84.8	59.8	57.0
60°	20022.7	16995.5	5402.5	287.7	190.4	143.2	98.7	83.4	57.0	45.9	40.3
62.5°	20391.0	17080.3	4447.6	259.9	196.0	133.4	89.0	68.1	41.7	30.6	27.8
63°	20417.4	17055.3	4278.1	255.7	197.4	133.4	89.0	65.3	40.3	27.8	25.0
65°	20377.1	16739.8	3616.5	241.8	201.5	127.9	84.8	52.8	32.0	19.5	16.7
67.5°	19703.0	15684.8	2681.1	226.6	193.2	126.5	77.8	43.1	25.0	12.5	9.7
70°	18053.2	14047.6	1791.6	201.5	186.2	123.7	91.7	36.1	20.8	6.9	5.6
72.5°	15748.8	12281.0	1199.5	165.4	162.6	101.5	55.6	30.6	15.3	2.8	0.0
75°	13310.9	9883.5	742.2	126.5	132.0	86.2	44.5	26.4	12.5	0.0	0.0
77.5°	10361.6	7301.1	528.2	80.6	93.1	73.7	37.5	22.2	9.7	0.0	0.0
80°	7069.0	4948.0	382.2	44.5	48.6	48.6	30.6	16.7	5.6	0.0	0.0
82.5°	4100.2	2772.8	194.6	22.2	20.8	25.0	13.9	8.3	1.4	0.0	0.0
85°	2000.0	1228.7	33.4	12.5	11.1	11.1	5.6	0.0	0.0	0.0	0.0
87.5°	678.3	318.3	4.2	5.6	4.2	1.4	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)