

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: P285773

Luminaire Tested: **USSL-XL-C069-D-U-T2-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285773
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-C069-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: 40351.5 lumens
Efficiency: N/A
Efficacy: 141.6 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

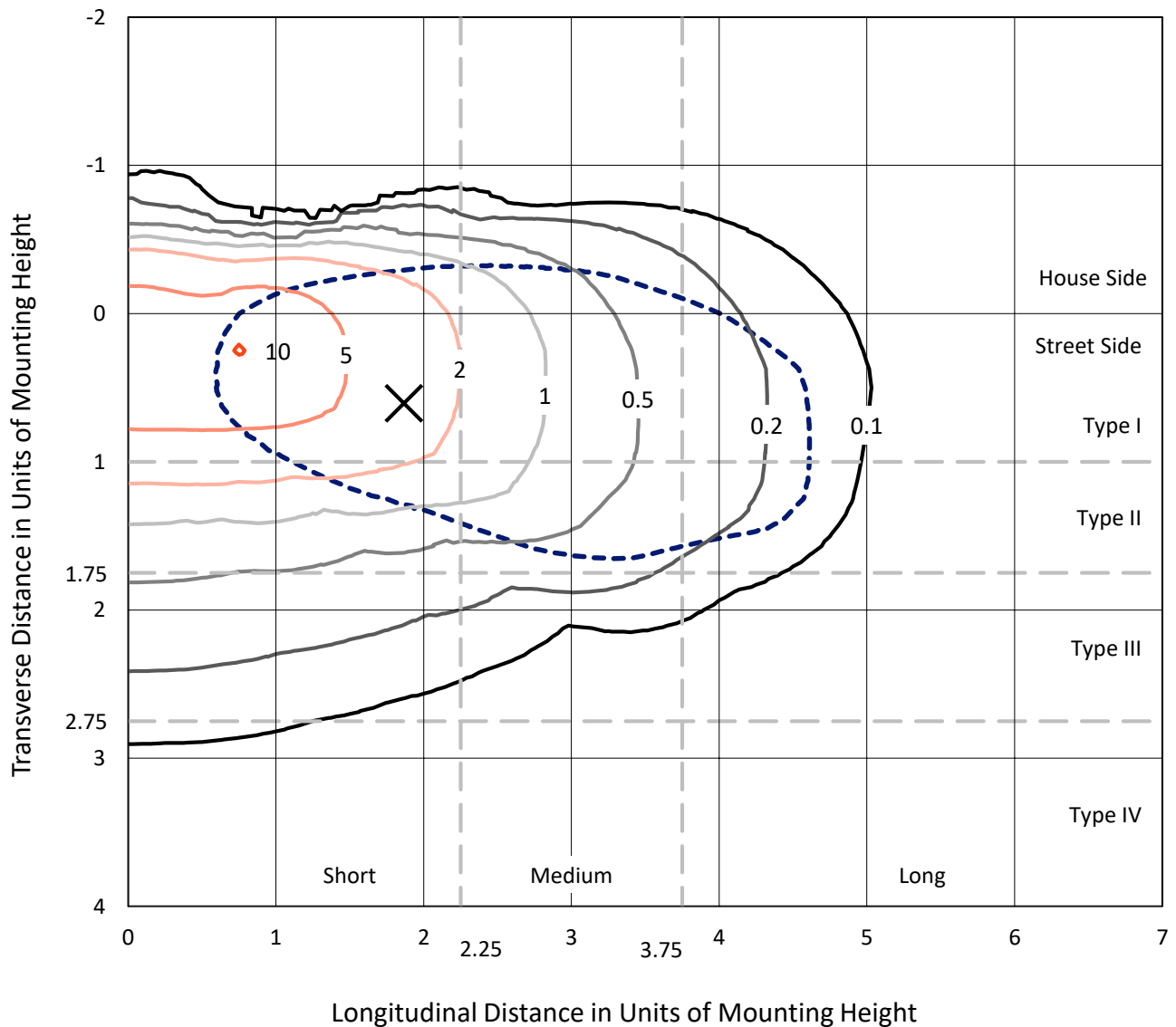
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

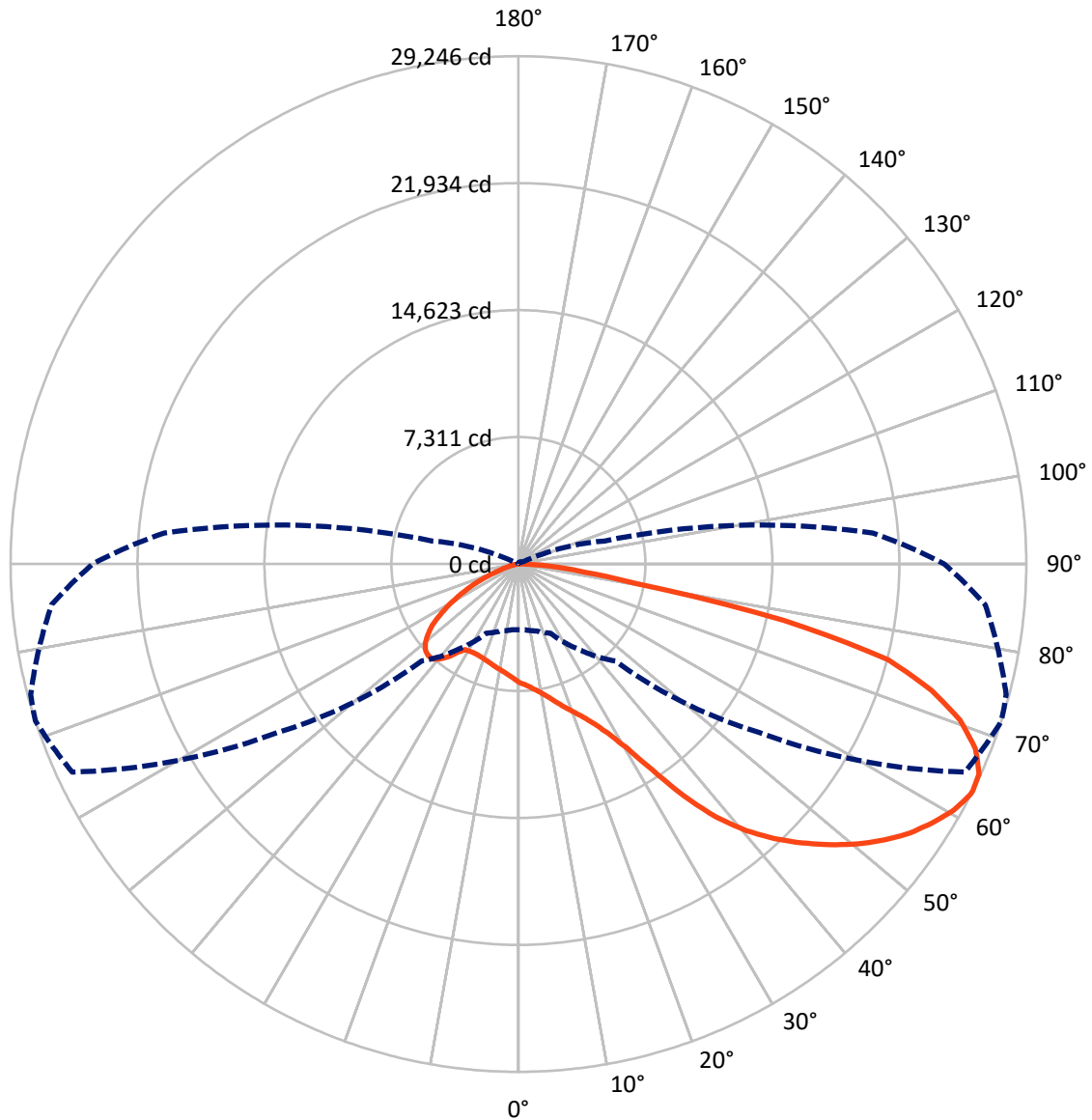
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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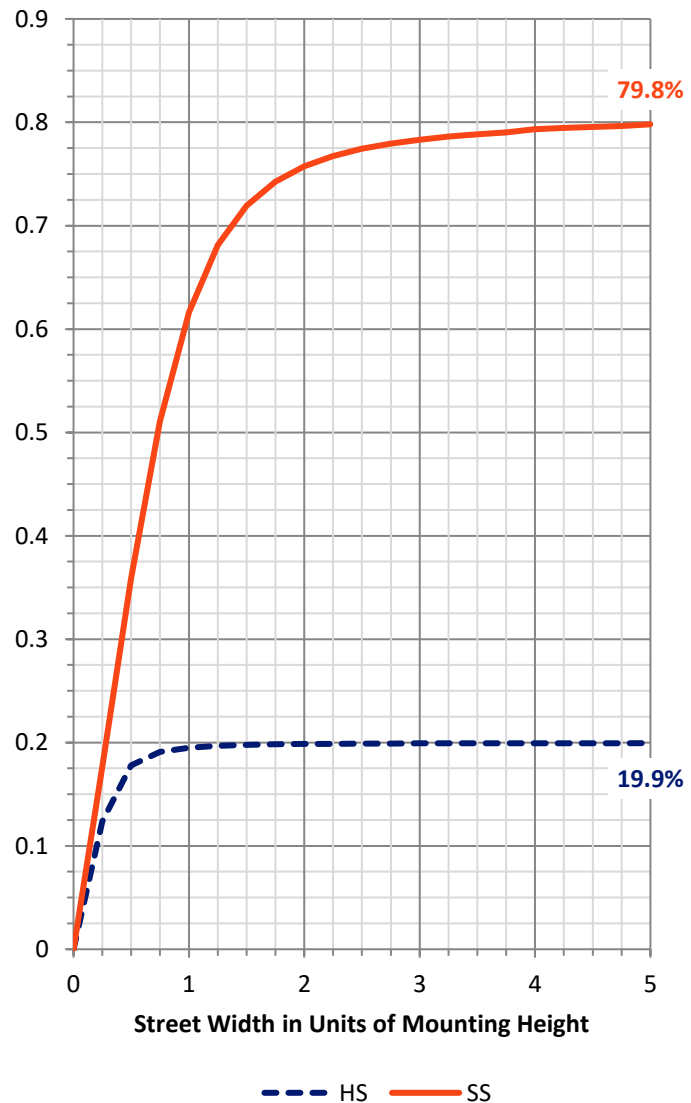
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8140.8	0.0	8140.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	32210.7	0.0	32210.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	40351.5	0.0	40351.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.2	1.6
10°-20°	1977.5	4.9
20°-30°	3336.7	8.3
30°-40°	5106.6	12.7
40°-50°	7114.2	17.6
50°-60°	8245.4	20.4
60°-70°	8083.4	20.0
70°-80°	5046.7	12.5
80°-90°	788.8	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°	40351.5	100.0
0°-180°	40351.5	100.0

Coefficient of Utilization



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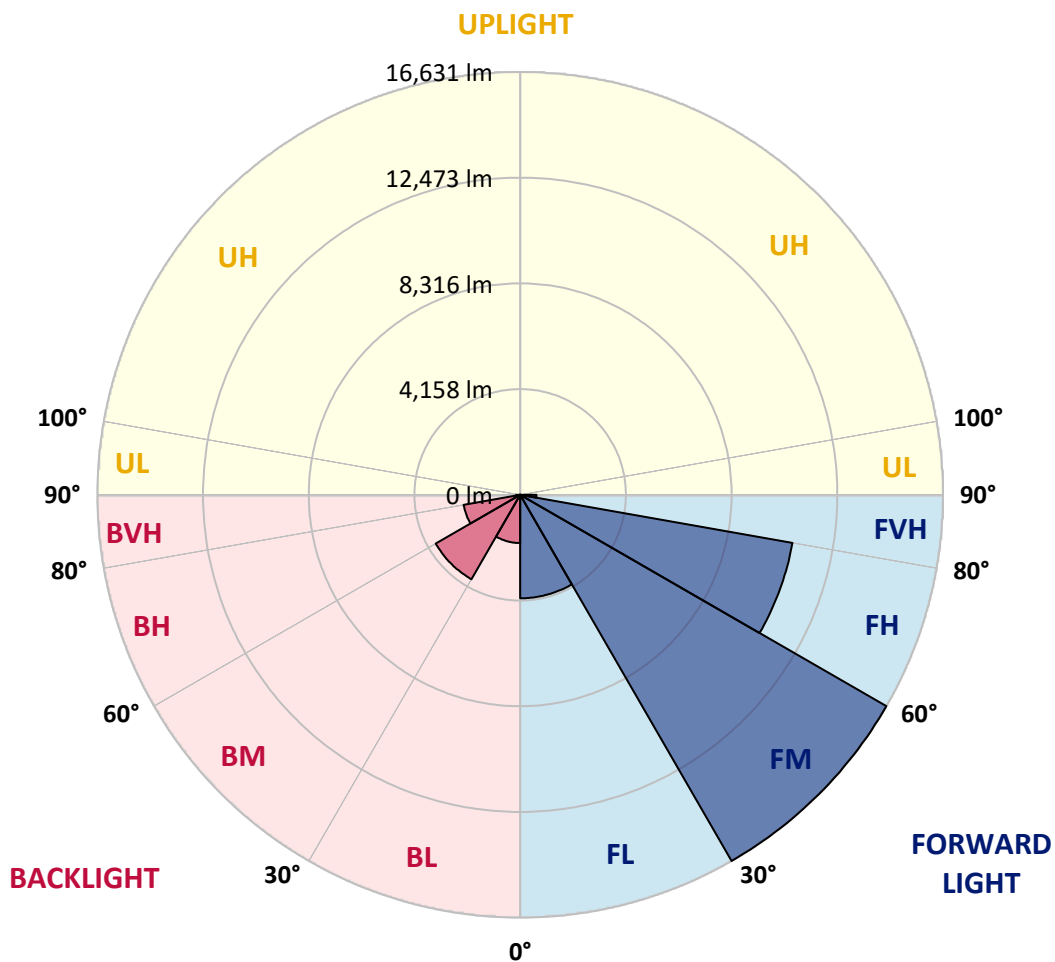
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4068.5	10.1			
FM	(30°-60°)	16631.1	41.2			
FH	(60°-80°)	10873.4	26.9			G4/12000
FVH	(80°-90°)	637.7	1.6			G4/750
BL	(0°-30°)	1897.8	4.7	B3/2500		
BM	(30°-60°)	3835.1	9.5	B3/5000		
BH	(60°-80°)	2256.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	151.1	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°	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1
2.5°	7420.8	7400.8	7379.0	7352.3	7330.7	7263.9	7203.8	7088.7	6946.9	6940.2	6825.0
5°	7926.4	7894.7	7869.7	7822.9	7771.2	7652.7	7514.3	7320.6	7118.7	7087.0	6883.4
7.5°	8348.6	8315.2	8286.8	8226.7	8168.3	8023.2	7844.6	7584.3	7334.0	7270.6	6965.2
10°	8717.4	8684.0	8670.6	8605.5	8563.9	8405.3	8183.4	7901.3	7587.6	7490.8	7088.7
12.5°	9106.1	9071.2	9047.7	8979.4	8929.3	8760.7	8563.9	8248.5	7893.1	7789.5	7265.6
15°	9490.0	9458.2	9404.9	9368.1	9309.7	9134.5	8949.4	8620.6	8266.8	8136.6	7502.5
17.5°	9843.7	9817.0	9777.0	9745.3	9696.9	9515.0	9313.1	9034.4	8672.3	8512.2	7774.6
20°	10104.0	10105.7	10089.1	10072.3	10089.1	9940.6	9777.0	9466.6	9094.5	8907.6	8056.5
22.5°	10327.7	10341.0	10362.7	10387.8	10494.6	10421.1	10224.2	9972.3	9573.4	9353.2	8418.7
25°	10437.8	10447.9	10544.6	10708.2	10948.4	10946.8	10763.2	10581.3	10202.5	9973.9	8922.7
27.5°	10502.9	10516.2	10651.5	10980.1	11404.0	11469.1	11394.0	11313.9	11050.2	10821.6	9588.5
30°	10499.6	10517.9	10726.5	11138.7	11762.8	12093.1	12099.8	12395.2	12270.0	12113.2	10711.5
32.5°	10249.2	10255.9	10546.3	11153.6	12033.2	12647.2	12922.5	13696.8	14084.0	14112.4	12785.7
35°	9655.2	9740.3	10174.2	11018.5	12228.4	13189.5	13902.1	15360.5	16388.5	16436.8	14868.3
37.5°	9228.0	9279.7	9773.7	10776.5	12318.5	13755.3	15026.8	17358.0	18482.7	18364.3	16592.0
40°	8760.7	8824.2	9331.5	10452.8	12261.8	14240.8	16173.2	19275.3	20176.5	19991.2	18060.5
42.5°	8243.5	8296.9	8774.1	9973.9	12081.5	14591.2	17279.5	20932.4	21624.9	21397.9	19395.5
45°	7734.5	7769.5	8221.8	9328.1	11734.4	14804.9	18289.1	22424.2	22909.8	22717.9	20625.3
47.5°	7088.7	7130.4	7684.5	8712.4	11098.6	14798.2	19163.5	23750.9	24156.3	23942.7	21721.7
50°	5466.8	5493.5	6716.6	8153.4	10277.6	14504.5	19912.8	24952.3	25334.5	25090.8	22806.3
52.5°	4952.7	4974.4	5353.2	7457.5	9381.5	13895.4	20405.1	26060.3	26405.7	26145.4	23829.3
55°	4707.4	4722.5	4906.1	6069.1	8595.6	12850.8	20621.9	27086.6	27348.6	27011.6	24660.3
57.5°	4360.3	4390.4	4667.4	5198.1	7826.3	11247.1	20311.6	27916.0	28112.9	27782.4	25469.6
60°	4096.7	4115.1	4348.7	4769.2	6896.8	9453.2	19203.6	28476.7	28797.1	28498.4	26230.5
62.5°	3839.7	3846.4	4041.6	4450.4	6089.1	8113.3	17312.9	28441.6	29217.5	29032.4	26894.6
63°	3784.7	3791.4	3989.9	4392.0	5970.6	7891.4	16899.0	28356.5	29245.9	29077.4	26983.1
65°	3551.0	3561.1	3754.6	4125.0	5456.7	7188.9	15066.8	27832.6	29150.7	29145.8	27101.6
67.5°	3202.3	3220.6	3385.9	3702.9	4755.9	6301.1	12241.7	27273.5	28386.6	28446.6	26439.1
70°	2780.1	2793.5	2980.3	3247.3	4001.5	5350.0	9374.8	25486.2	26981.5	26814.6	24903.9
72.5°	2332.8	2356.3	2534.8	2741.7	3319.1	4413.7	6788.3	22437.6	24872.2	24995.7	22329.1
75°	2035.9	2049.2	2202.7	2349.6	2756.7	3512.6	4540.6	16111.4	21992.0	22023.7	19262.0
77.5°	1688.7	1705.4	1863.9	2002.5	2236.1	2644.9	3132.2	8373.6	15637.6	16525.3	14956.7
80°	931.1	1081.3	1343.3	1445.1	1618.7	1607.0	1992.4	4425.4	6920.2	8652.3	9878.8
82.5°	156.9	201.9	542.4	707.5	771.0	677.5	967.9	2436.3	3858.0	4427.1	5316.6
85°	66.8	96.8	283.6	310.3	193.5	188.6	382.1	1274.8	2207.7	2543.1	2740.1
87.5°	8.4	15.1	73.5	96.8	45.0	61.8	76.7	398.8	769.3	884.4	999.6
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°	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1	6830.1
2.5°	6770.0	6731.6	6643.1	6574.8	6524.6	6456.3	6382.8	6329.4	6272.7	6247.7	6257.6
5°	6780.0	6694.9	6506.3	6357.8	6192.6	6070.8	5912.2	5832.2	5745.4	5702.1	5700.4
7.5°	6806.7	6673.2	6376.1	6142.5	5907.2	5717.0	5510.1	5368.3	5291.6	5234.7	5228.1
10°	6873.5	6683.2	6277.7	5960.7	5656.9	5401.7	5149.6	4966.1	4861.0	4802.5	4810.9
12.5°	6993.5	6719.9	6207.6	5812.2	5421.7	5117.9	4795.9	4580.7	4452.1	4380.4	4400.4
15°	7158.8	6800.0	6135.9	5628.6	5169.7	4812.6	4468.9	4225.2	4081.7	4020.0	4039.9
17.5°	7344.0	6916.8	6085.8	5423.3	4904.4	4500.5	4181.8	3943.1	3702.9	3654.5	3654.5
20°	7550.9	7047.0	6077.5	5228.1	4642.4	4203.5	3836.4	3636.1	3287.4	3168.9	3143.9
22.5°	7824.6	7230.5	6067.5	5049.6	4363.7	3896.4	3445.9	3130.5	2678.3	2474.7	2454.7
25°	8201.7	7484.2	6084.1	4902.7	4110.1	3551.0	2908.6	2402.9	2022.5	1767.2	1753.8
27.5°	8707.4	7822.9	6137.6	4765.8	3856.4	3125.5	2252.8	1713.8	1420.1	1191.4	1123.1
30°	9663.5	8358.6	6230.9	4644.1	3561.1	2554.8	1601.9	1159.7	949.5	791.0	755.9
32.5°	11490.8	9703.6	6359.5	4508.9	3197.3	1882.3	1069.7	774.3	604.0	512.2	532.3
35°	13313.0	11380.7	6971.9	4310.3	2718.3	1253.2	714.2	493.9	380.5	377.1	398.8
37.5°	14955.1	12864.1	7799.6	4088.4	2077.5	842.7	428.8	328.8	318.7	347.1	390.5
40°	16316.7	14068.9	8498.8	3778.0	1426.7	515.6	280.3	298.7	283.6	295.4	290.3
42.5°	17581.6	15153.6	9066.2	3425.9	841.0	297.0	243.7	277.1	255.3	245.3	225.2
45°	18719.6	16176.5	9351.5	2871.9	490.6	237.0	221.9	262.0	247.0	228.6	198.6
47.5°	19755.9	17074.2	9538.4	2114.3	282.0	206.9	206.9	235.3	231.9	210.3	193.5
50°	20830.5	17952.1	9520.0	1298.3	238.6	190.3	196.9	196.9	208.6	163.5	148.5
52.5°	21780.1	18741.4	9139.5	735.9	220.2	180.2	178.6	160.2	170.2	126.9	118.5
55°	22551.1	19355.5	8500.4	485.6	208.6	178.6	156.9	138.5	130.2	91.8	95.1
57.5°	23308.6	19939.5	7522.5	383.8	217.0	171.9	143.5	118.5	101.8	71.8	68.5
60°	24039.5	20405.1	6486.3	345.4	228.6	171.9	118.5	100.2	68.5	55.1	48.4
62.5°	24481.8	20506.8	5339.9	312.0	235.3	160.2	106.8	81.7	50.0	36.7	33.4
63°	24513.5	20476.8	5136.3	307.1	237.0	160.2	106.8	78.4	48.4	33.4	30.0
65°	24465.0	20098.0	4342.0	290.3	242.0	153.5	101.8	63.4	38.4	23.3	20.0
67.5°	23655.7	18831.5	3218.9	272.0	231.9	151.9	93.5	51.7	30.0	15.1	11.7
70°	21675.0	16865.7	2151.0	242.0	223.6	148.5	110.1	43.3	25.0	8.4	6.7
72.5°	18908.2	14744.8	1440.1	198.6	195.2	121.8	66.8	36.7	18.3	3.3	0.0
75°	15981.3	11866.2	891.1	151.9	158.6	103.4	53.4	31.7	15.1	0.0	0.0
77.5°	12440.3	8765.8	634.1	96.8	111.8	88.4	45.0	26.7	11.7	0.0	0.0
80°	8487.0	5940.6	458.9	53.4	58.4	58.4	36.7	20.0	6.7	0.0	0.0
82.5°	4922.7	3329.0	233.6	26.7	25.0	30.0	16.6	10.0	1.7	0.0	0.0
85°	2401.3	1475.2	40.1	15.1	13.4	13.4	6.7	0.0	0.0	0.0	0.0
87.5°	814.3	382.1	5.0	6.7	5.0	1.7	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)