

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: P285768

Luminaire Tested: **USSL-XL-C069-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285768
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-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 39619 lumens
Efficiency: N/A
Efficacy: 139.0 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 - 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

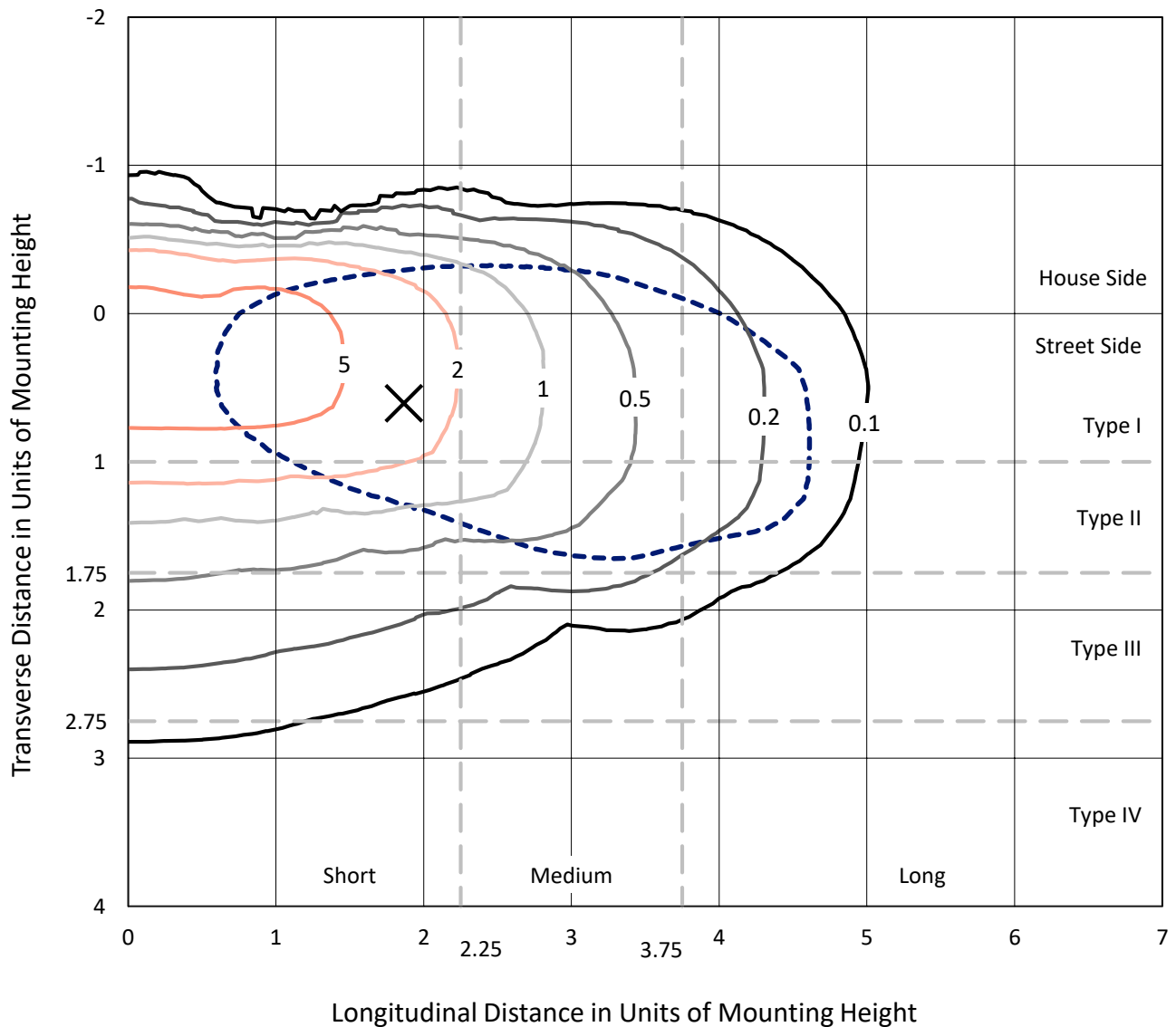


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

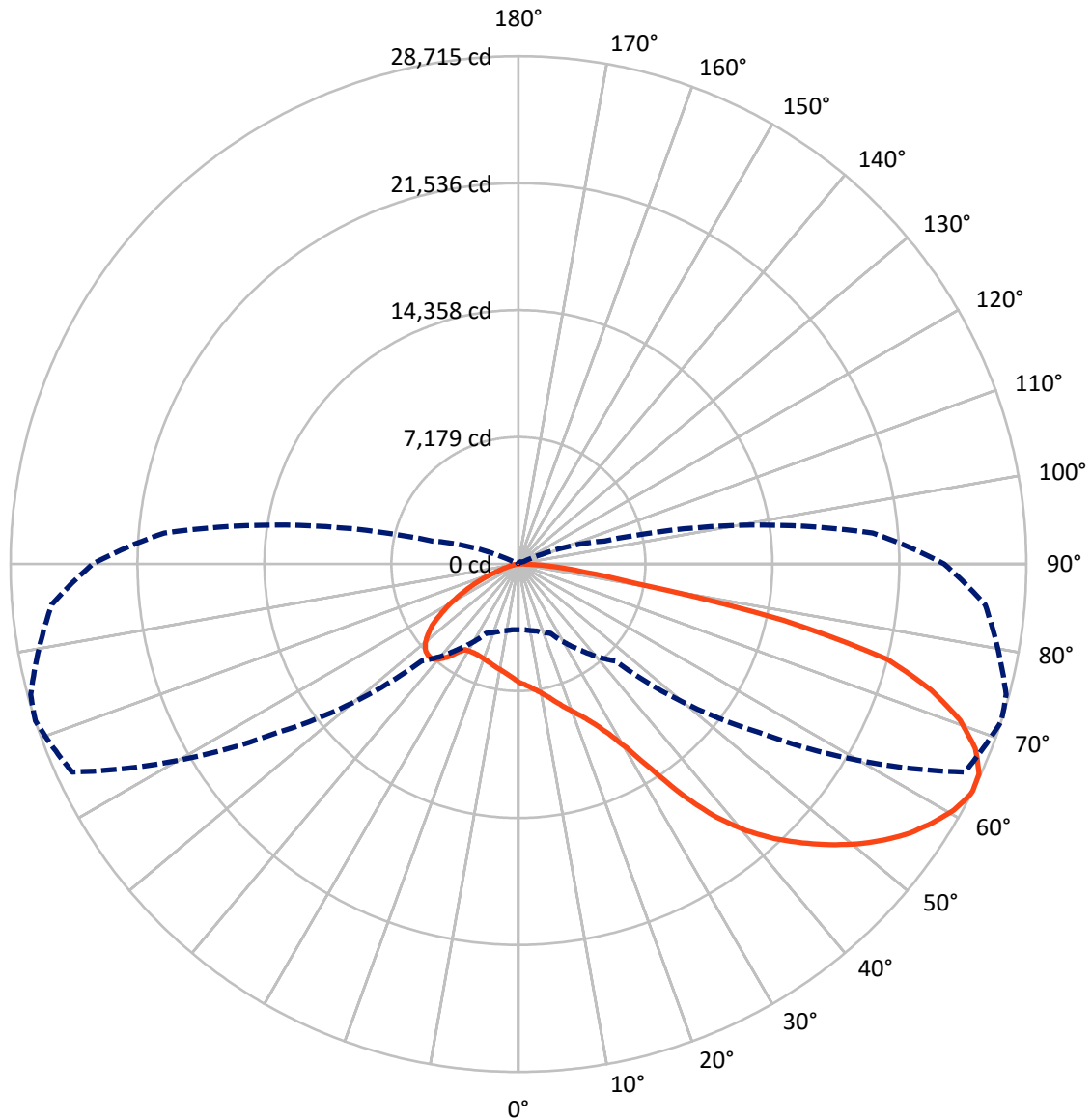


Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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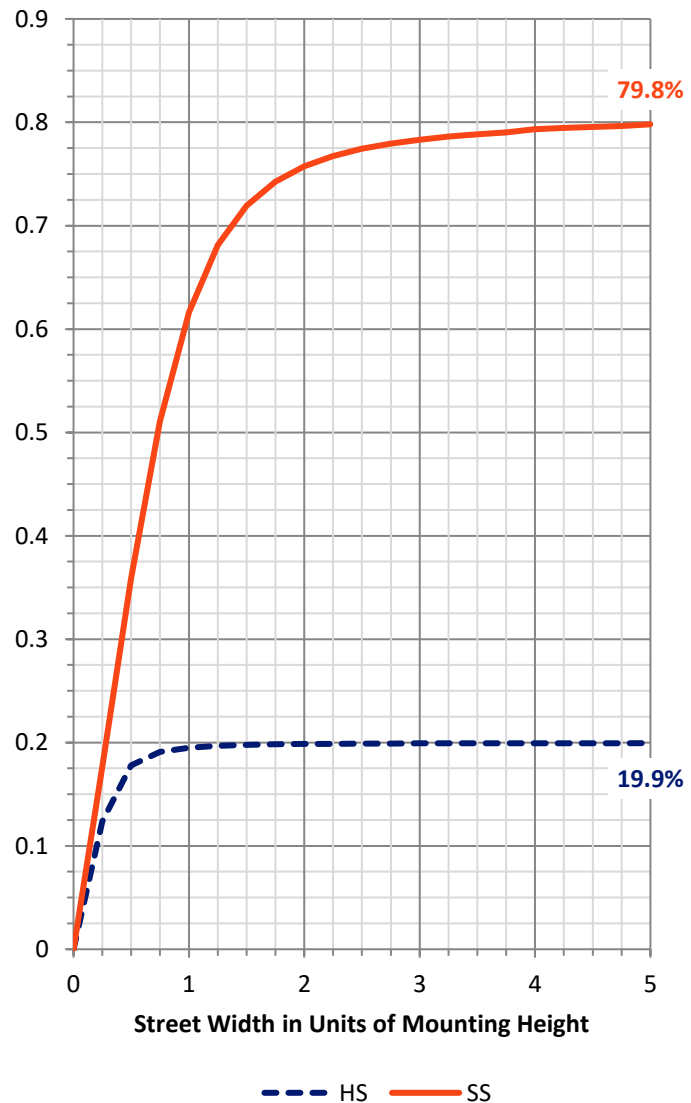
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7993.0	0.0	7993.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	31626.0	0.0	31626.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	39619.0	0.0	39619.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.3	1.6
10°-20°	1941.6	4.9
20°-30°	3276.1	8.3
30°-40°	5013.9	12.7
40°-50°	6985.0	17.6
50°-60°	8095.7	20.4
60°-70°	7936.7	20.0
70°-80°	4955.1	12.5
80°-90°	774.5	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°	39619.0	100.0
0°-180°	39619.0	100.0



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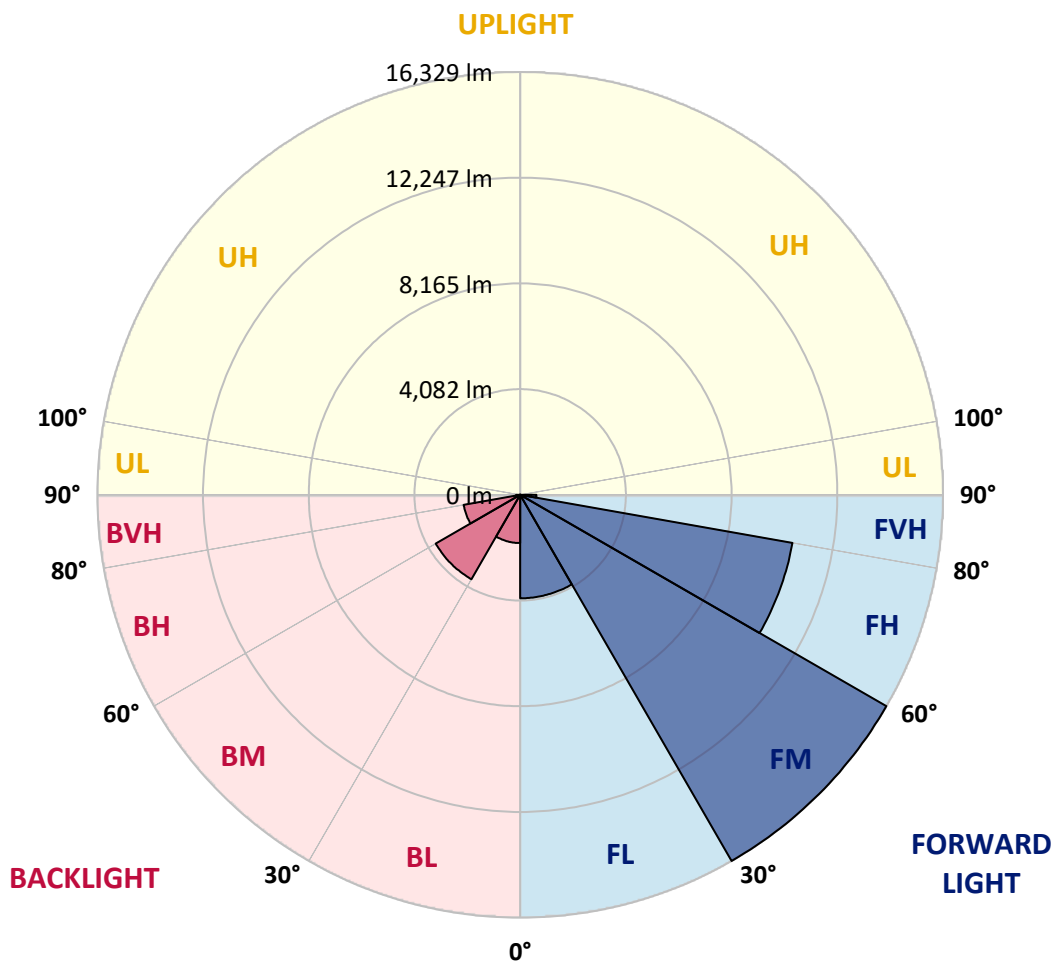
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3994.7	10.1			
FM	(30°-60°)	16329.2	41.2			
FH	(60°-80°)	10676.1	26.9			G4/12000
FVH	(80°-90°)	626.1	1.6			G4/750
BL	(0°-30°)	1863.4	4.7	B3/2500		
BM	(30°-60°)	3765.5	9.5	B3/5000		
BH	(60°-80°)	2215.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	148.4	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°	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1
2.5°	7286.1	7266.5	7245.2	7218.9	7197.6	7132.1	7073.1	6960.0	6820.8	6814.2	6701.2
5°	7782.5	7751.4	7726.8	7681.0	7630.1	7513.8	7377.9	7187.8	6989.5	6958.5	6758.6
7.5°	8197.1	8164.3	8136.4	8077.5	8020.2	7877.6	7702.3	7446.6	7200.9	7138.6	6838.8
10°	8559.1	8526.4	8513.2	8449.4	8408.4	8252.8	8034.9	7757.9	7449.9	7354.9	6960.0
12.5°	8940.9	8906.4	8883.6	8816.4	8767.3	8601.7	8408.4	8098.8	7749.8	7648.1	7133.8
15°	9317.8	9286.6	9234.2	9198.1	9140.8	8968.8	8786.9	8464.1	8116.8	7989.0	7366.4
17.5°	9665.1	9638.8	9599.5	9568.5	9520.9	9342.3	9144.1	8870.4	8514.9	8357.6	7633.4
20°	9920.7	9922.4	9905.9	9889.5	9905.9	9760.1	9599.5	9294.8	8929.4	8746.0	7910.4
22.5°	10140.3	10153.3	10174.6	10199.2	10304.0	10232.0	10038.6	9791.3	9399.6	9183.4	8265.8
25°	10248.4	10258.2	10353.2	10513.8	10749.7	10748.1	10567.8	10389.2	10017.3	9792.8	8760.7
27.5°	10312.3	10325.3	10458.1	10780.9	11197.0	11260.9	11187.1	11108.5	10849.7	10625.2	9414.5
30°	10309.0	10327.0	10531.8	10936.5	11549.3	11873.6	11880.2	12170.2	12047.4	11893.3	10517.1
32.5°	10063.2	10069.8	10354.9	10951.2	11814.7	12417.7	12688.0	13448.2	13828.3	13856.2	12553.7
35°	9480.0	9563.5	9989.5	10818.5	12006.4	12950.2	13649.7	15081.7	16091.0	16138.6	14598.4
37.5°	9060.6	9111.3	9596.2	10581.0	12094.8	13505.6	14754.0	17043.0	18147.2	18030.9	16290.9
40°	8601.7	8664.0	9162.1	10263.1	12039.2	13982.3	15879.6	18925.5	19810.3	19628.4	17732.7
42.5°	8093.8	8146.3	8614.9	9792.8	11862.2	14326.5	16965.9	20552.4	21232.3	21009.5	19043.4
45°	7594.1	7628.5	8072.5	9158.8	11521.4	14536.1	17957.1	22017.2	22493.9	22305.6	20251.0
47.5°	6960.0	7001.0	7545.0	8554.2	10897.1	14529.5	18815.7	23319.7	23717.9	23508.2	21327.4
50°	5367.4	5393.7	6594.7	8005.3	10091.1	14241.2	19551.3	24499.4	24874.6	24635.4	22392.4
52.5°	4862.8	4884.1	5256.0	7322.1	9211.3	13643.1	20034.7	25587.4	25926.5	25670.9	23396.8
55°	4622.0	4636.7	4816.9	5959.0	8439.6	12617.6	20247.7	26595.0	26852.2	26521.2	24212.7
57.5°	4281.3	4310.7	4582.7	5103.7	7684.3	11043.0	19943.0	27409.2	27602.6	27278.2	25007.3
60°	4022.3	4040.3	4269.7	4682.6	6771.6	9281.7	18855.0	27959.7	28274.3	27981.0	25754.4
62.5°	3770.1	3776.5	3968.3	4369.6	5978.6	7966.0	16998.7	27925.4	28687.3	28505.4	26406.6
63°	3715.9	3722.5	3917.5	4312.3	5862.3	7748.1	16592.3	27841.8	28715.1	28549.6	26493.4
65°	3486.5	3496.4	3686.4	4050.2	5357.7	7058.3	14793.3	27327.3	28621.8	28616.8	26609.7
67.5°	3144.2	3162.2	3324.4	3635.7	4669.5	6186.7	12019.5	26778.5	27871.3	27930.3	25959.3
70°	2729.7	2742.7	2926.3	3188.4	3928.9	5252.8	9204.7	25023.7	26491.8	26327.9	24451.9
72.5°	2290.5	2313.4	2488.8	2691.9	3258.9	4333.6	6665.1	22030.3	24420.7	24542.0	21923.8
75°	1998.9	2012.0	2162.7	2306.9	2706.7	3448.9	4458.2	15819.0	21592.8	21624.0	18912.3
77.5°	1658.1	1674.4	1830.1	1966.1	2195.5	2596.9	3075.3	8221.6	15353.7	16225.4	14685.2
80°	914.3	1061.7	1318.9	1418.9	1589.3	1577.8	1956.3	4345.1	6794.6	8495.2	9699.5
82.5°	154.0	198.2	532.5	694.7	757.0	665.2	950.3	2392.1	3788.1	4346.8	5220.0
85°	65.5	95.1	278.5	304.7	190.0	185.2	375.2	1251.7	2167.6	2496.9	2690.3
87.5°	8.2	14.7	72.1	95.1	44.2	60.6	75.4	391.6	755.3	868.4	981.5
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°	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1	6706.1
2.5°	6647.1	6609.4	6522.6	6455.4	6406.2	6339.0	6267.0	6214.5	6158.9	6134.3	6144.1
5°	6656.9	6573.4	6388.2	6242.4	6080.2	5960.6	5805.0	5726.3	5641.1	5598.5	5596.9
7.5°	6683.2	6552.1	6260.4	6031.0	5800.0	5613.2	5410.0	5270.8	5195.4	5139.8	5133.2
10°	6748.7	6561.9	6163.7	5852.4	5554.3	5303.6	5056.1	4876.0	4772.7	4715.4	4723.6
12.5°	6866.7	6598.0	6095.0	5706.6	5323.2	5025.1	4708.8	4497.5	4371.3	4300.9	4320.6
15°	7028.8	6676.6	6024.5	5526.4	5075.9	4725.2	4387.7	4148.4	4007.6	3947.0	3966.7
17.5°	7210.7	6791.3	5975.4	5324.9	4815.3	4418.8	4105.9	3871.6	3635.7	3588.2	3588.2
20°	7413.9	6919.1	5967.1	5133.2	4558.1	4127.3	3766.8	3570.2	3227.7	3111.3	3086.7
22.5°	7682.6	7099.3	5957.3	4957.9	4284.5	3825.7	3383.3	3073.7	2629.7	2429.8	2410.1
25°	8052.9	7348.4	5973.7	4813.7	4035.5	3486.5	2855.8	2359.3	1985.7	1735.1	1722.0
27.5°	8549.4	7681.0	6026.2	4679.4	3786.4	3068.7	2211.9	1682.7	1394.3	1169.8	1102.6
30°	9488.1	8206.9	6117.8	4559.8	3496.4	2508.5	1572.9	1138.8	932.3	776.6	742.2
32.5°	11282.2	9527.4	6244.1	4427.0	3139.2	1848.1	1050.3	760.3	593.1	503.0	522.6
35°	13071.4	11174.1	6845.4	4232.1	2669.0	1230.4	701.2	485.0	373.5	370.3	391.6
37.5°	14683.6	12630.6	7658.0	4014.2	2039.9	827.4	421.1	322.7	313.0	340.8	383.4
40°	16020.6	13813.6	8344.5	3709.4	1400.9	506.3	275.3	293.3	278.5	290.0	285.1
42.5°	17262.5	14878.6	8901.6	3363.7	825.8	291.7	239.2	272.0	250.7	240.8	221.2
45°	18379.9	15882.9	9181.7	2819.8	481.7	232.6	217.9	257.2	242.5	224.5	195.0
47.5°	19397.3	16764.4	9365.3	2075.9	276.8	203.2	203.2	231.1	227.8	206.5	190.0
50°	20452.5	17626.2	9347.3	1274.7	234.3	186.8	193.3	193.3	204.8	160.6	145.8
52.5°	21384.8	18401.1	8973.6	722.5	216.2	176.9	175.3	157.3	167.1	124.5	116.4
55°	22141.7	19004.1	8346.2	476.7	204.8	175.3	154.0	136.0	127.8	90.1	93.4
57.5°	22885.6	19577.6	7386.0	376.8	213.0	168.7	140.9	116.4	99.9	70.5	67.2
60°	23603.2	20034.7	6368.6	339.2	224.5	168.7	116.4	98.3	67.2	54.1	47.5
62.5°	24037.4	20134.6	5243.0	306.4	231.1	157.3	104.8	80.2	49.2	36.0	32.8
63°	24068.5	20105.1	5043.1	301.4	232.6	157.3	104.8	77.1	47.5	32.8	29.5
65°	24021.0	19733.2	4263.2	285.1	237.5	150.7	99.9	62.2	37.7	22.9	19.6
67.5°	23226.3	18489.6	3160.5	267.1	227.8	149.1	91.8	50.8	29.5	14.7	11.4
70°	21281.5	16559.6	2112.0	237.5	219.5	145.8	108.1	42.6	24.6	8.2	6.6
72.5°	18565.0	14477.2	1414.0	195.0	191.7	119.6	65.5	36.0	18.0	3.3	0.0
75°	15691.2	11650.8	874.9	149.1	155.7	101.5	52.5	31.2	14.7	0.0	0.0
77.5°	12214.5	8606.7	622.6	95.1	109.8	86.8	44.2	26.2	11.4	0.0	0.0
80°	8333.0	5832.8	450.6	52.5	57.3	57.3	36.0	19.6	6.6	0.0	0.0
82.5°	4833.4	3268.6	229.4	26.2	24.6	29.5	16.4	9.9	1.6	0.0	0.0
85°	2357.7	1448.4	39.3	14.7	13.1	13.1	6.6	0.0	0.0	0.0	0.0
87.5°	799.6	375.2	4.9	6.6	4.9	1.6	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)