

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: P285766

Luminaire Tested: **USSL-XL-C049-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285766
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-C049-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: 29924.2 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: B3 - U0 - G4

Input Watts (W): 217
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

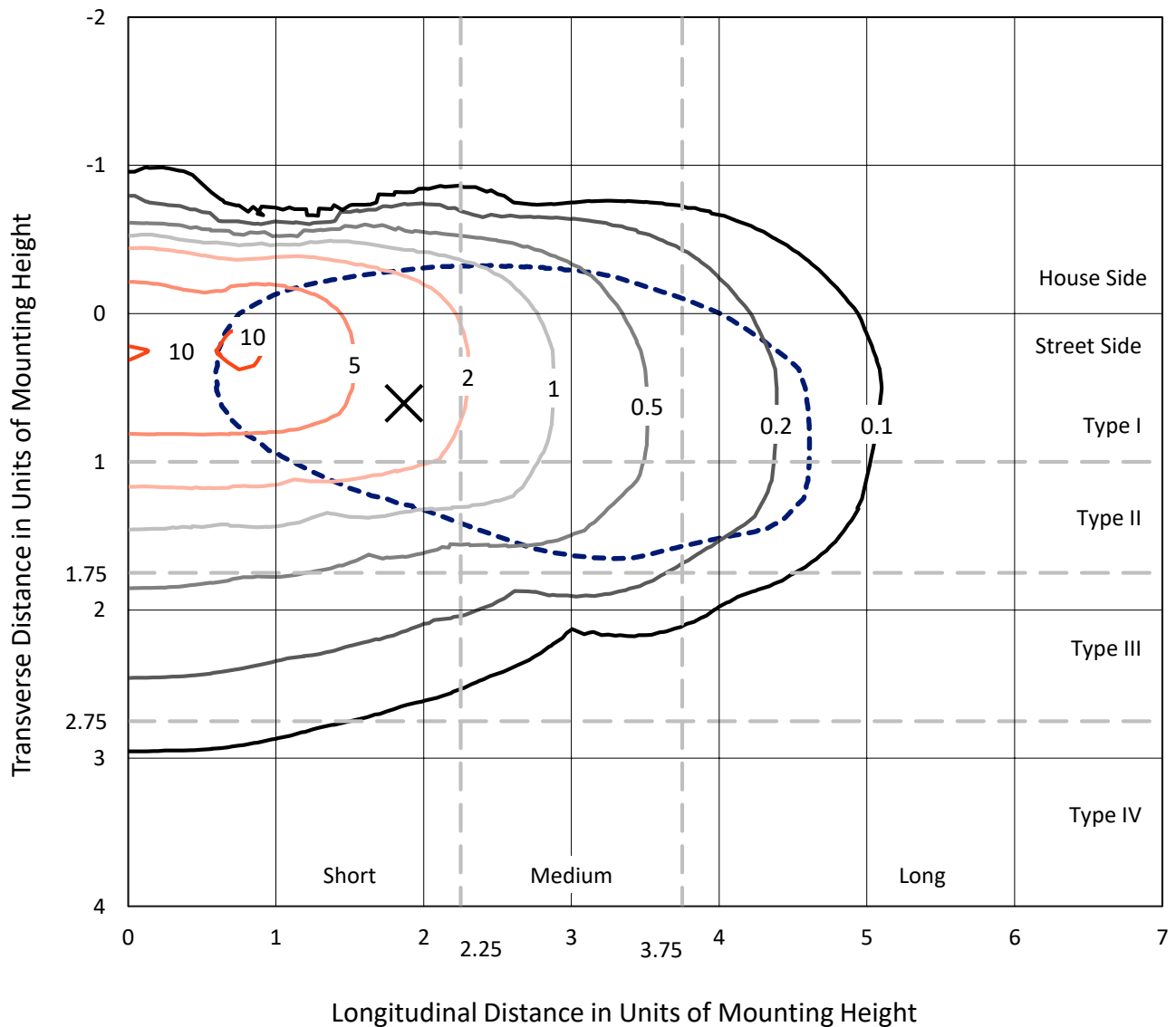


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

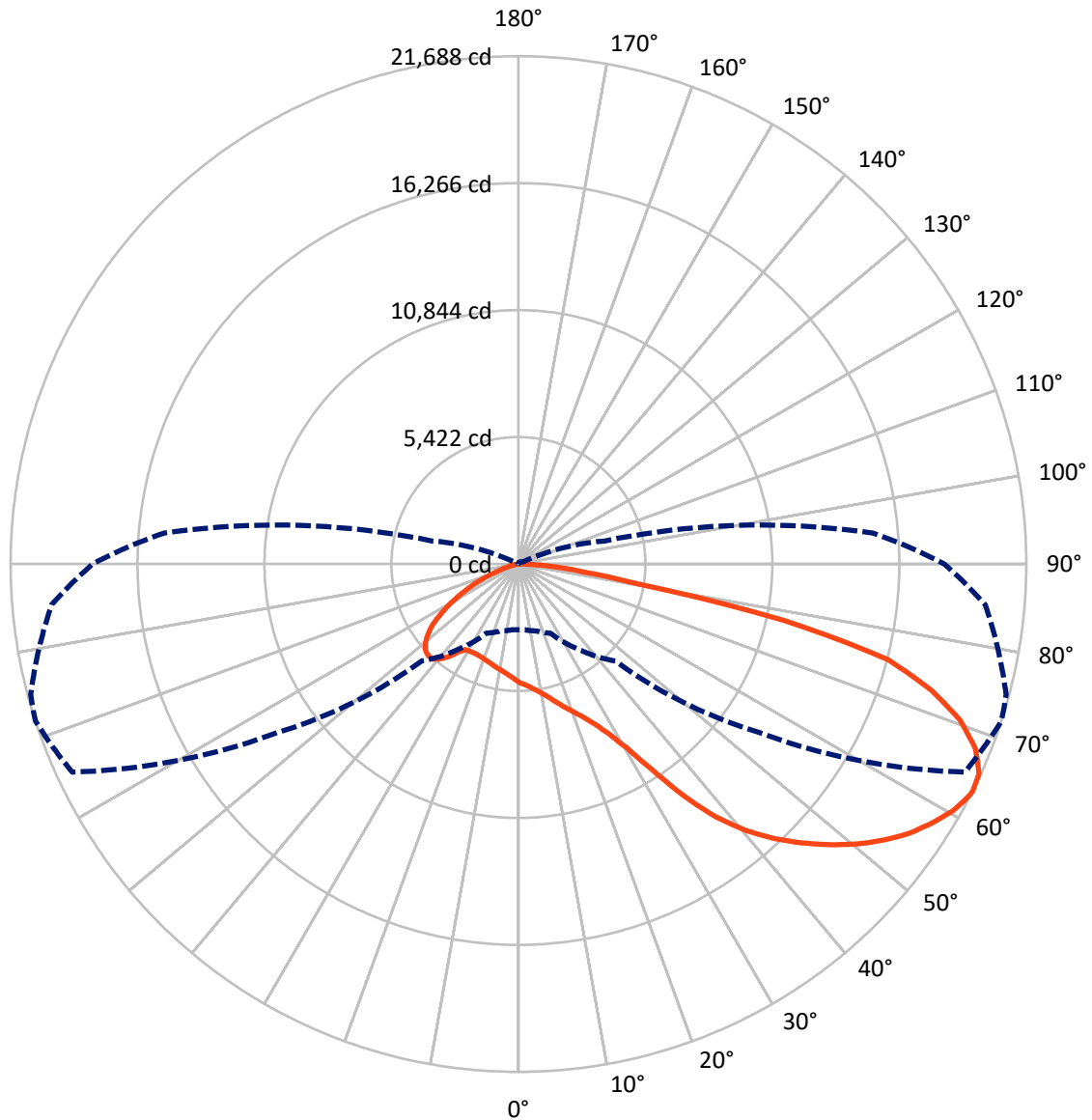


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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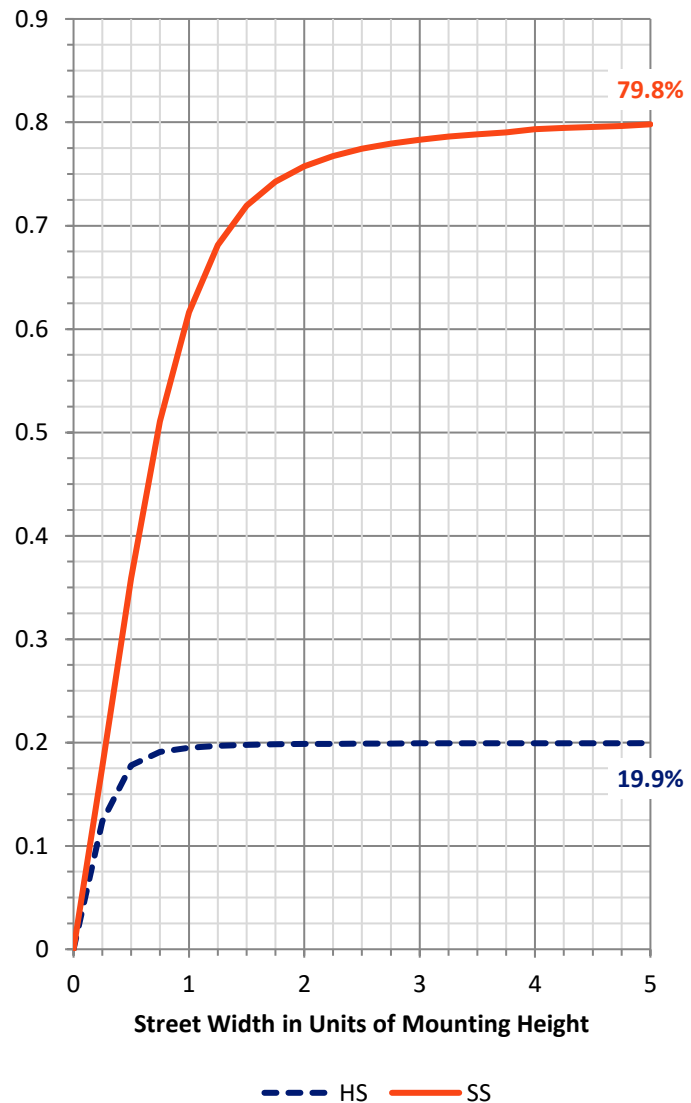
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6037.1	0.0	6037.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	23887.1	0.0	23887.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	29924.2	0.0	29924.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	1.6
10°-20°	1466.5	4.9
20°-30°	2474.4	8.3
30°-40°	3787.0	12.7
40°-50°	5275.8	17.6
50°-60°	6114.7	20.4
60°-70°	5994.5	20.0
70°-80°	3742.6	12.5
80°-90°	585.0	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°	29924.2	100.0
0°-180°	29924.2	100.0

Coefficient of Utilization



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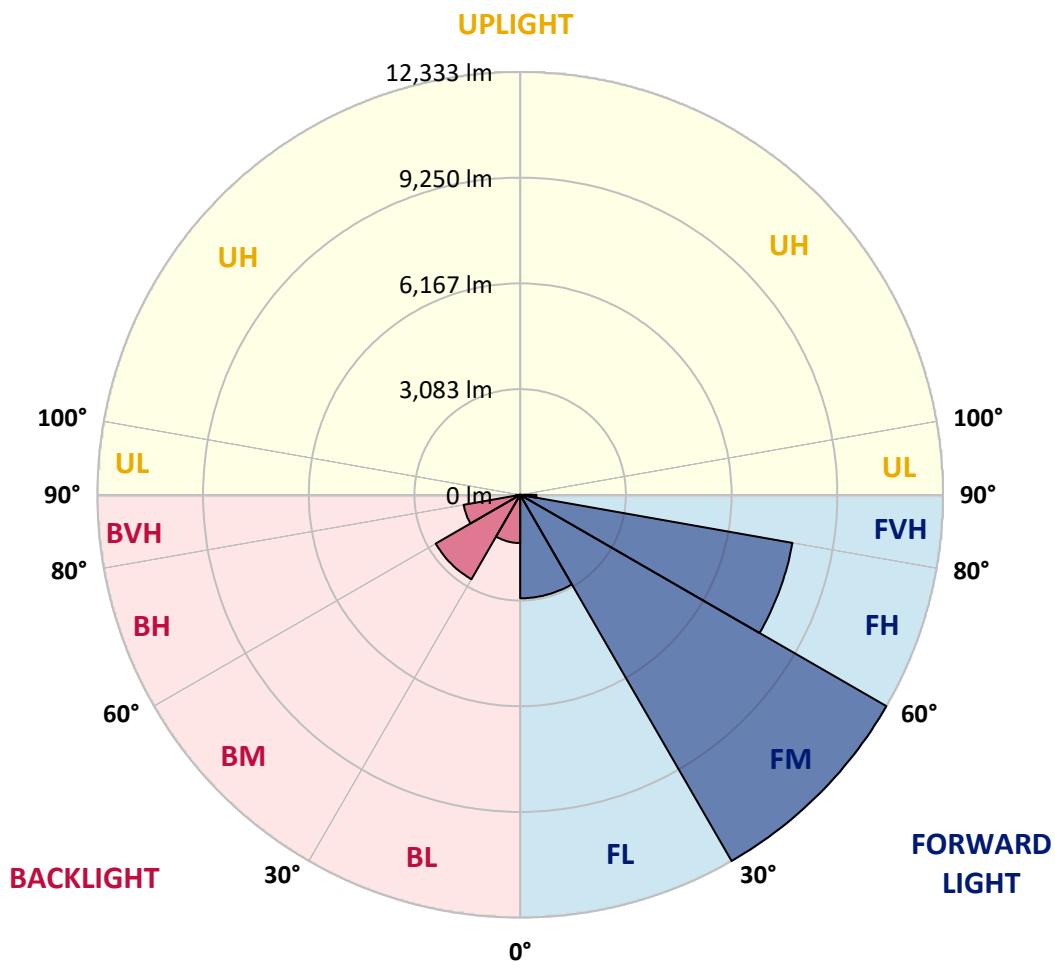
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3017.2	10.1			
FM	(30°-60°)	12333.4	41.2			
FH	(60°-80°)	8063.6	26.9			G4/12000
FVH	(80°-90°)	472.9	1.6			G3/500
BL	(0°-30°)	1407.4	4.7	B3/2500		
BM	(30°-60°)	2844.1	9.5	B3/5000		
BH	(60°-80°)	1673.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	112.1	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°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	5503.2	5488.3	5472.3	5452.4	5436.3	5386.8	5342.3	5256.9	5151.7	5146.8	5061.3
5°	5878.1	5854.6	5836.0	5801.4	5763.0	5675.1	5572.4	5428.9	5279.1	5255.6	5104.7
7.5°	6191.2	6166.5	6145.4	6100.9	6057.5	5949.9	5817.5	5624.5	5438.8	5391.8	5165.3
10°	6464.6	6440.0	6430.1	6381.8	6350.8	6233.3	6068.7	5859.6	5626.9	5555.1	5256.9
12.5°	6753.0	6727.1	6709.7	6659.0	6621.8	6496.9	6350.8	6117.0	5853.4	5776.7	5388.1
15°	7037.6	7014.1	6974.6	6947.3	6904.0	6774.0	6636.7	6392.9	6130.6	6034.0	5563.8
17.5°	7300.1	7280.2	7250.6	7227.0	7191.1	7056.2	6906.5	6699.8	6431.3	6312.4	5765.5
20°	7493.1	7494.3	7481.9	7469.5	7481.9	7371.8	7250.6	7020.4	6744.4	6605.7	5974.7
22.5°	7658.8	7668.8	7684.9	7703.5	7782.6	7728.2	7582.2	7395.3	7099.5	6936.2	6243.2
25°	7740.6	7748.0	7819.7	7941.1	8119.3	8118.0	7981.9	7847.0	7566.1	7396.5	6617.0
27.5°	7788.8	7798.7	7899.0	8142.8	8457.0	8505.4	8449.6	8390.3	8194.7	8025.1	7110.7
30°	7786.3	7799.9	7954.7	8260.3	8723.1	8968.1	8973.1	9192.2	9099.3	8983.0	7943.5
32.5°	7600.8	7605.6	7821.0	8271.5	8923.6	9379.1	9583.2	10157.4	10444.5	10465.6	9481.8
35°	7160.2	7223.3	7545.0	8171.2	9068.4	9781.2	10309.6	11391.2	12153.4	12189.4	11026.1
37.5°	6843.4	6881.7	7248.0	7991.8	9135.2	10200.7	11143.7	12872.5	13706.5	13618.7	12304.5
40°	6496.9	6543.9	6920.1	7751.7	9093.2	10560.8	11993.8	14294.3	14962.6	14825.2	13393.4
42.5°	6113.3	6152.8	6506.7	7396.5	8959.5	10820.7	12814.3	15523.2	16036.7	15868.5	14383.5
45°	5735.9	5761.8	6097.2	6917.6	8702.1	10979.1	13563.0	16629.5	16989.7	16847.3	15295.5
47.5°	5256.9	5287.8	5698.7	6460.9	8230.7	10974.1	14211.5	17613.3	17914.0	17755.7	16108.6
50°	4054.0	4073.8	4980.9	6046.4	7621.7	10756.4	14767.1	18504.4	18787.7	18607.1	16912.9
52.5°	3672.9	3689.0	3969.9	5530.3	6957.2	10304.7	15132.2	19326.0	19582.2	19389.2	17671.5
55°	3491.0	3502.1	3638.2	4500.8	6374.3	9530.0	15293.0	20087.1	20281.4	20031.4	18287.7
57.5°	3233.5	3255.9	3461.3	3854.9	5803.9	8340.8	15062.9	20702.2	20848.1	20603.2	18887.9
60°	3038.1	3051.7	3225.0	3536.8	5114.5	7010.4	14241.1	21118.0	21355.5	21134.0	19452.2
62.5°	2847.5	2852.4	2997.2	3300.4	4515.6	6016.7	12839.1	21091.9	21667.4	21530.1	19944.8
63°	2806.6	2811.6	2958.8	3257.1	4427.7	5852.1	12532.2	21028.8	21688.4	21563.5	20010.4
65°	2633.4	2640.8	2784.4	3059.1	4046.6	5331.2	11173.4	20640.3	21617.9	21614.2	20098.2
67.5°	2374.8	2388.4	2510.9	2746.0	3526.9	4672.8	9078.3	20225.6	21051.1	21095.6	19607.0
70°	2061.7	2071.6	2210.2	2408.2	2967.5	3967.4	6952.3	18900.3	20009.1	19885.4	18468.4
72.5°	1730.1	1747.4	1879.7	2033.2	2461.4	3273.2	5034.1	16639.4	18444.9	18536.5	16559.0
75°	1509.7	1519.7	1633.5	1742.4	2044.3	2604.9	3367.2	11948.0	16309.0	16332.5	14284.5
77.5°	1252.4	1264.7	1382.3	1485.0	1658.2	1961.5	2322.8	6209.7	11596.6	12255.0	11091.7
80°	690.5	801.9	996.2	1071.7	1200.3	1191.8	1477.6	3281.9	5131.9	6416.4	7326.0
82.5°	116.4	149.8	402.2	524.7	571.7	502.4	717.8	1806.7	2861.1	3283.0	3942.7
85°	49.5	71.8	210.4	230.2	143.5	139.8	283.4	945.4	1637.2	1886.0	2031.9
87.5°	6.1	11.1	54.5	71.8	33.4	45.8	56.9	295.7	570.4	655.9	741.3
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°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	5020.5	4992.0	4926.5	4875.8	4838.7	4787.9	4733.4	4693.9	4651.8	4633.2	4640.7
5°	5028.0	4964.9	4825.0	4714.9	4592.3	4502.0	4384.5	4325.0	4260.7	4228.6	4227.3
7.5°	5047.8	4948.8	4728.5	4555.2	4380.8	4239.7	4086.2	3981.0	3924.1	3882.0	3877.1
10°	5097.3	4956.2	4655.5	4420.3	4195.1	4005.8	3818.9	3682.8	3604.8	3561.5	3567.7
12.5°	5186.4	4983.4	4603.5	4310.2	4020.6	3795.4	3556.6	3397.0	3301.7	3248.5	3263.3
15°	5308.8	5042.8	4550.3	4174.1	3833.8	3569.0	3314.0	3133.4	3027.0	2981.2	2996.0
17.5°	5446.2	5129.4	4513.2	4021.9	3637.0	3337.5	3101.2	2924.3	2746.0	2710.2	2710.2
20°	5599.7	5225.9	4507.0	3877.1	3442.8	3117.3	2845.0	2696.5	2437.9	2350.0	2331.5
22.5°	5802.6	5362.0	4499.6	3744.6	3236.1	2889.6	2555.4	2321.5	1986.1	1835.2	1820.4
25°	6082.3	5550.2	4511.9	3635.8	3048.0	2633.4	2157.0	1782.0	1499.9	1310.5	1300.6
27.5°	6457.2	5801.4	4551.5	3534.3	2859.8	2317.8	1670.6	1270.9	1053.1	883.5	832.9
30°	7166.4	6198.6	4620.8	3443.9	2640.8	1894.6	1188.0	860.1	704.1	586.5	560.6
32.5°	8521.4	7196.1	4716.1	3343.8	2371.1	1395.9	793.2	574.1	448.0	379.9	394.8
35°	9872.8	8439.8	5170.3	3196.4	2015.9	929.3	529.6	366.3	282.1	279.7	295.7
37.5°	11090.5	9539.8	5784.1	3031.8	1540.7	624.9	318.1	243.8	236.4	257.4	289.6
40°	12100.2	10433.3	6302.6	2801.7	1058.1	382.4	208.0	221.5	210.4	219.1	215.4
42.5°	13038.3	11237.7	6723.4	2540.6	623.8	220.2	180.7	205.4	189.3	181.9	167.0
45°	13882.3	11996.4	6934.9	2129.8	363.9	175.7	164.6	194.3	183.2	169.6	147.2
47.5°	14650.8	12662.1	7073.6	1567.9	209.1	153.5	153.5	174.5	172.0	155.9	143.5
50°	15447.7	13313.0	7059.9	962.8	177.0	141.1	146.1	146.1	154.6	121.3	110.1
52.5°	16151.8	13898.4	6777.7	545.7	163.3	133.7	132.4	118.8	126.2	94.0	87.9
55°	16723.5	14353.8	6303.9	360.2	154.6	132.4	116.4	102.7	96.6	68.0	70.6
57.5°	17285.4	14786.9	5578.7	284.6	160.9	127.5	106.4	87.9	75.5	53.2	50.8
60°	17827.4	15132.2	4810.1	256.2	169.6	127.5	87.9	74.3	50.8	40.8	35.9
62.5°	18155.3	15207.7	3960.0	231.4	174.5	118.8	79.2	60.6	37.1	27.2	24.8
63°	18178.9	15185.4	3809.1	227.7	175.7	118.8	79.2	58.2	35.9	24.8	22.3
65°	18142.9	14904.4	3220.0	215.4	179.4	113.8	75.5	47.1	28.5	17.3	14.8
67.5°	17542.8	13965.1	2387.1	201.7	172.0	112.6	69.3	38.4	22.3	11.1	8.7
70°	16073.9	12507.5	1595.1	179.4	165.9	110.1	81.7	32.2	18.5	6.1	5.0
72.5°	14022.2	10934.6	1068.0	147.2	144.8	90.3	49.5	27.2	13.6	2.4	0.0
75°	11851.5	8799.8	660.8	112.6	117.5	76.7	39.6	23.5	11.1	0.0	0.0
77.5°	9225.6	6500.6	470.3	71.8	82.9	65.6	33.4	19.8	8.7	0.0	0.0
80°	6293.9	4405.5	340.3	39.6	43.3	43.3	27.2	14.8	5.0	0.0	0.0
82.5°	3650.6	2468.8	173.3	19.8	18.5	22.3	12.4	7.4	1.3	0.0	0.0
85°	1780.7	1093.9	29.7	11.1	9.9	9.9	5.0	0.0	0.0	0.0	0.0
87.5°	603.9	283.4	3.7	5.0	3.7	1.3	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)