

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: P285851

Luminaire Tested: **USSL-XL-C049-D-U-T4-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
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-T4-AP-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29841.5 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

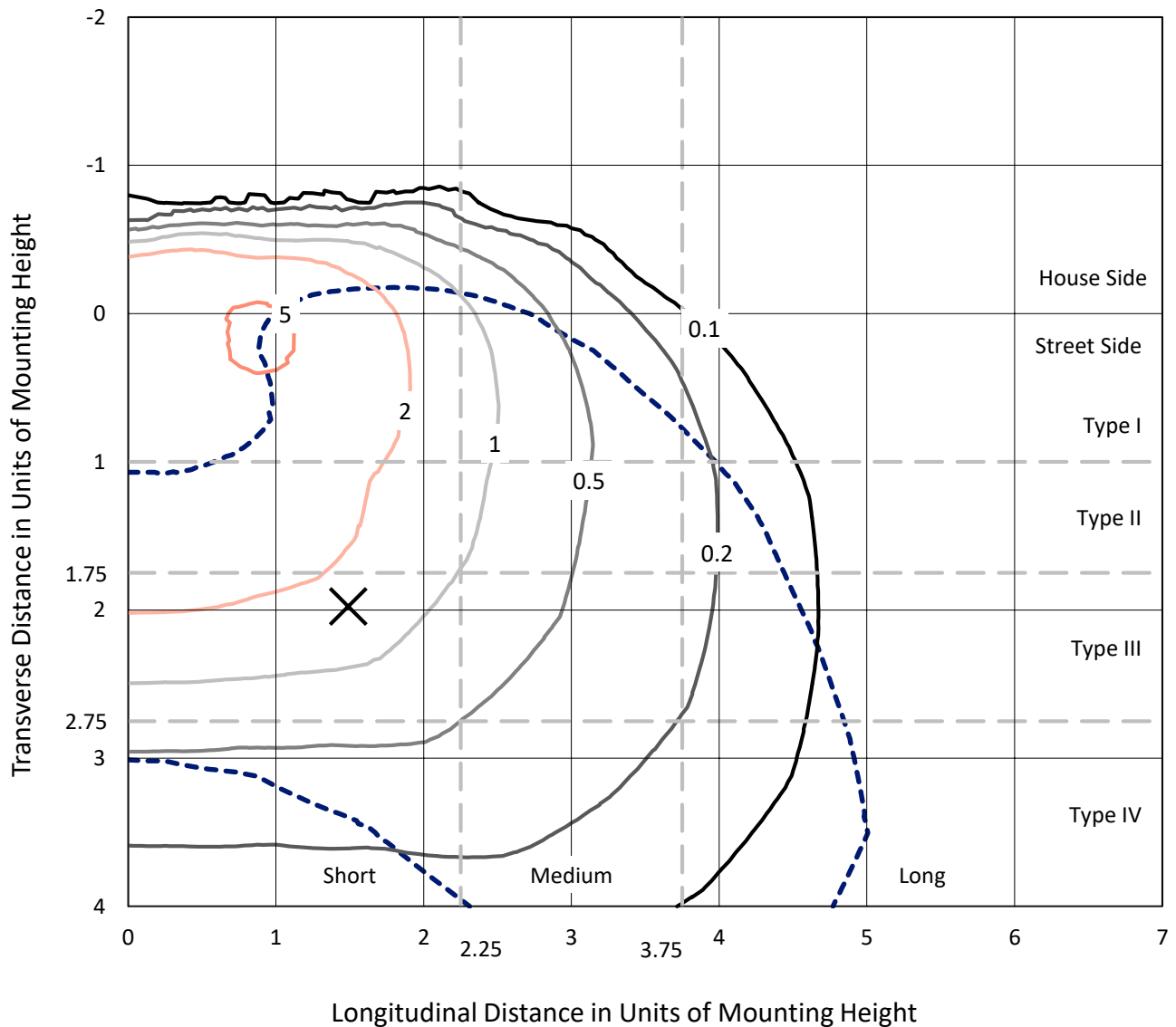
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

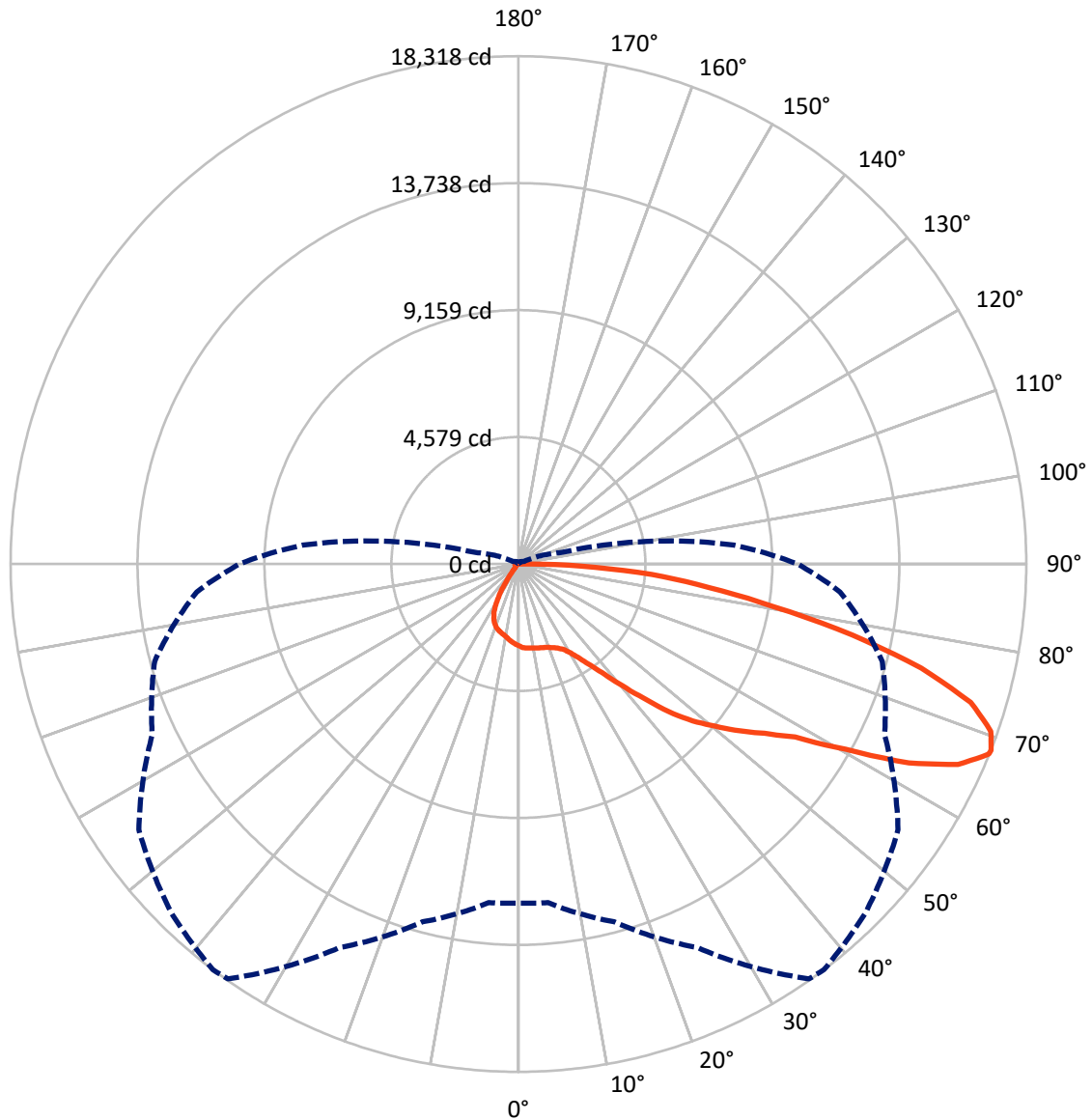
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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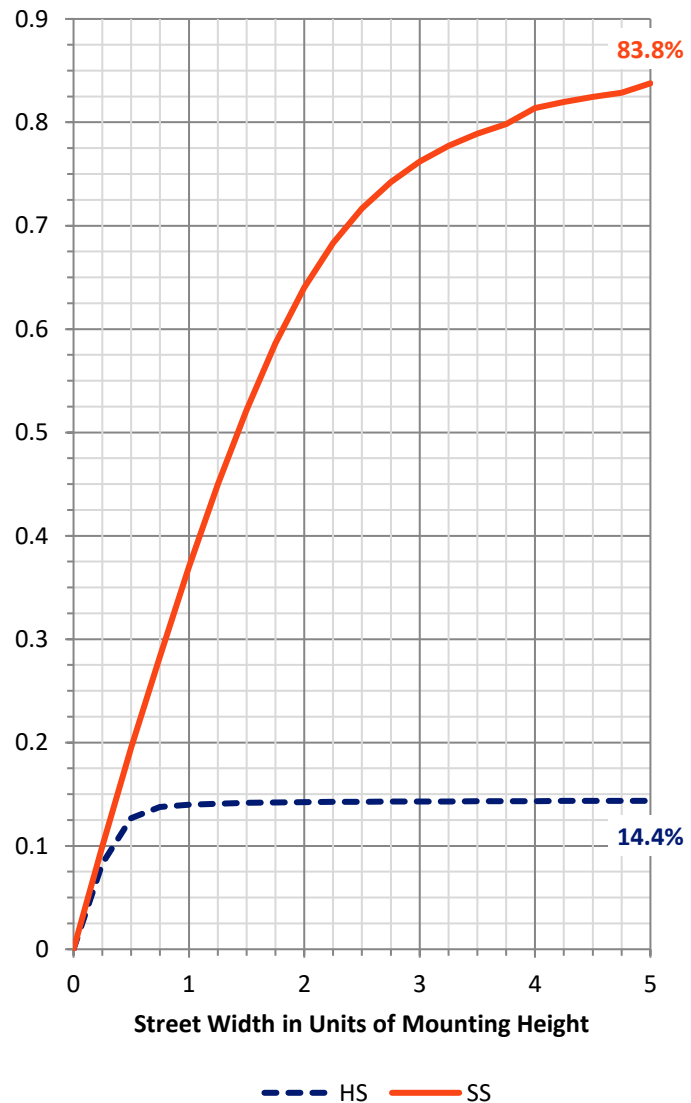
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4334.6	0.0	4334.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	25506.9	0.0	25506.9
	% Fixture	85.5	0.0	85.5
Total	Lumens	29841.5	0.0	29841.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	0.9
10°-20°	828.0	2.8
20°-30°	1383.6	4.6
30°-40°	2247.3	7.5
40°-50°	4060.0	13.6
50°-60°	6047.7	20.3
60°-70°	7878.2	26.4
70°-80°	5800.3	19.4
80°-90°	1317.5	4.4
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°	29841.5	100.0
0°-180°	29841.5	100.0



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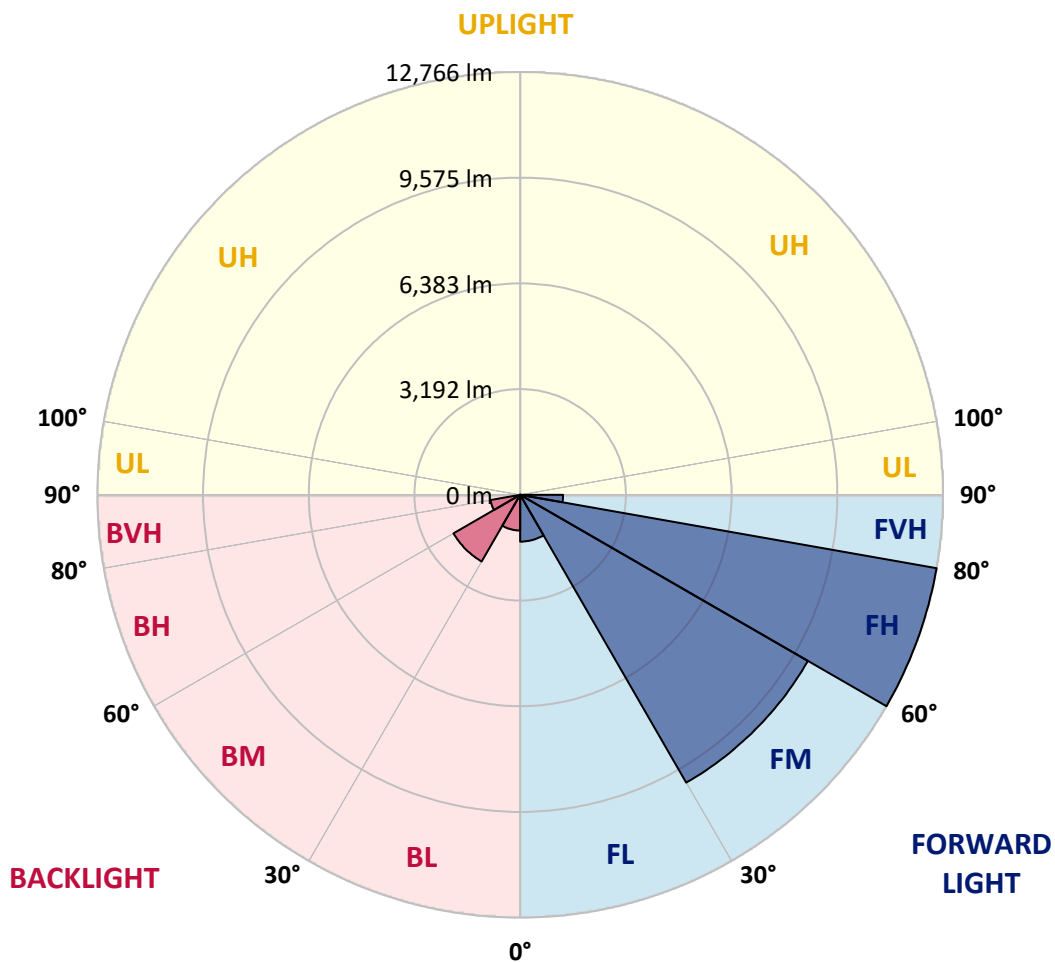
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1412.5	4.7			
FM	(30°-60°)	10032.1	33.6			
FH	(60°-80°)	12766.4	42.8			G5
FVH	(80°-90°)	1295.9	4.3			G5
BL	(0°-30°)	1078.0	3.6	B3/2500		
BM	(30°-60°)	2322.9	7.8	B2/2500		
BH	(60°-80°)	912.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	21.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2
2.5°	3017.4	3020.0	3020.0	3016.2	3021.2	3017.4	3008.6	2999.8	2989.7	2949.4	2940.6
5°	3031.3	3037.6	3037.6	3036.3	3043.9	3042.7	3035.1	3027.5	3016.2	2968.2	2951.9
7.5°	3038.8	3045.2	3046.5	3043.9	3059.1	3061.5	3056.5	3056.5	3047.6	2999.8	2975.9
10°	3037.6	3038.8	3042.7	3048.9	3072.9	3079.2	3085.5	3095.5	3095.5	3056.5	3028.8
12.5°	3004.8	3006.1	3018.7	3047.6	3095.5	3105.7	3124.6	3152.4	3166.1	3144.7	3120.8
15°	2982.1	2982.1	2999.8	3045.2	3118.2	3132.1	3172.5	3215.3	3255.7	3253.2	3248.1
17.5°	3002.3	3006.1	3033.9	3072.9	3147.3	3162.4	3215.3	3284.6	3349.0	3376.6	3381.7
20°	3062.8	3066.6	3096.8	3137.2	3201.4	3212.8	3264.5	3347.7	3443.5	3503.9	3539.2
22.5°	3152.4	3154.8	3178.7	3209.1	3272.0	3279.6	3330.0	3419.6	3540.5	3643.8	3705.6
25°	3236.7	3241.8	3263.2	3285.9	3356.5	3362.7	3424.5	3519.1	3660.3	3798.9	3912.3
27.5°	3322.5	3331.3	3357.8	3389.2	3491.3	3493.9	3550.6	3643.8	3811.5	4000.6	4169.4
30°	3512.8	3502.7	3525.3	3567.0	3710.7	3719.5	3776.2	3880.8	4037.2	4250.1	4494.6
32.5°	3836.7	3825.4	3824.1	3885.9	4018.2	4061.1	4122.8	4287.9	4483.3	4695.0	4950.9
35°	4477.0	4459.3	4374.9	4354.7	4432.9	4493.3	4616.9	4858.9	5187.9	5650.4	5941.6
37.5°	5540.8	5518.2	5332.8	5114.8	5002.6	5040.4	5143.8	5479.0	6031.0	7010.4	7299.1
40°	6591.9	6597.0	6372.6	6009.6	5765.1	5772.7	5731.1	6118.1	6939.9	8279.7	8396.8
42.5°	7596.5	7587.7	7313.0	6981.5	6668.9	6607.1	6452.0	6787.4	7790.7	9303.2	9252.7
45°	8487.7	8470.0	8163.7	7978.4	7635.6	7602.9	7354.5	7466.7	8649.0	10117.4	9944.7
47.5°	9338.5	9323.3	8960.3	8785.1	8509.1	8452.4	8219.2	8275.9	9445.6	10757.7	10501.8
50°	10224.5	10254.7	9726.6	9525.0	9271.6	9197.3	9080.1	9114.1	10267.4	11360.1	10977.0
52.5°	11300.9	11148.3	10588.7	10215.6	10012.8	9997.6	9847.6	9919.5	11171.0	11889.5	11400.5
55°	12449.2	12247.5	11696.6	11210.1	10755.1	10781.6	10559.8	10665.7	11982.8	12347.1	11734.5
57.5°	13233.2	13228.1	13081.8	12616.7	11823.9	11768.5	11357.6	11447.1	12693.7	12819.7	11985.3
60°	13983.0	14188.6	14346.1	14138.1	13753.7	13577.2	12427.8	12261.3	13342.8	13246.9	12129.0
62.5°	14487.2	14550.2	15144.0	15319.2	15837.1	15803.1	14566.6	13246.9	13896.1	13524.3	12175.6
65°	14023.4	14075.0	14976.3	15819.5	17358.5	17429.0	16913.6	14874.2	14332.2	13620.0	12079.8
67.5°	12585.3	12623.1	13681.8	15427.5	18204.2	18297.5	17696.3	16572.0	14552.7	13603.7	11753.3
68°	12234.8	12261.3	13360.5	15262.3	18267.3	18317.6	17735.3	16713.1	14570.4	13584.7	11647.6
70°	10731.2	10726.2	11764.8	14281.8	18063.0	18078.2	17509.8	16866.9	14501.1	13405.8	10972.0
72.5°	8297.3	8458.6	9324.6	12029.4	16937.5	17058.5	16762.3	16442.1	14206.2	12682.3	9354.8
75°	5903.7	6029.9	6919.7	9381.3	14620.8	15002.8	15528.4	15645.6	13134.8	10900.1	6892.0
77.5°	4119.1	4252.6	5084.6	7006.7	11818.9	12318.1	13427.2	13601.2	11047.5	8263.3	3516.5
80°	2635.5	2762.8	3526.6	5095.9	8923.7	9349.8	10562.3	10311.4	7731.4	4426.6	616.3
82.5°	1602.0	1666.3	2243.5	3485.1	6503.8	6899.5	7302.8	6192.5	3700.5	626.4	197.9
85°	910.0	955.4	1376.4	2251.1	4594.2	4823.6	4914.3	3090.6	770.1	168.9	113.4
87.5°	242.0	336.5	743.6	1387.7	2311.6	2252.4	2427.6	1106.6	138.6	73.1	54.2
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°	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2	2953.2
2.5°	2930.5	2928.0	2919.2	2915.4	2919.2	2915.4	2887.6	2890.1	2890.1	2876.3	2867.5
5°	2936.8	2930.5	2902.7	2897.7	2882.6	2858.7	2813.3	2803.1	2794.3	2771.6	2767.8
7.5°	2954.4	2945.6	2901.5	2881.3	2839.7	2796.9	2735.1	2698.5	2680.9	2653.1	2657.0
10°	3006.1	2987.2	2924.2	2885.0	2806.9	2736.3	2646.9	2591.5	2558.6	2517.1	2530.9
12.5°	3099.4	3070.4	2992.2	2924.2	2804.4	2699.8	2572.5	2470.4	2418.7	2370.9	2384.7
15°	3226.7	3195.2	3099.4	2996.0	2837.2	2684.7	2509.5	2348.2	2254.9	2193.1	2196.9
17.5°	3369.1	3341.3	3231.7	3094.3	2887.6	2674.7	2437.7	2220.8	2050.7	1962.5	1960.0
20°	3520.4	3503.9	3384.3	3199.0	2939.3	2651.9	2345.7	2058.2	1823.9	1675.1	1662.5
22.5°	3694.3	3686.8	3546.8	3302.3	2963.3	2600.3	2222.1	1856.6	1545.2	1343.6	1331.0
25°	3922.4	3911.0	3708.2	3374.1	2953.2	2513.2	2049.4	1614.5	1192.4	960.5	950.3
27.5°	4197.2	4140.5	3850.6	3410.7	2904.0	2375.9	1823.9	1255.3	801.6	591.1	586.1
30°	4506.0	4395.1	3975.4	3414.5	2813.3	2184.3	1492.3	811.7	466.4	332.7	330.3
32.5°	4906.8	4711.5	4110.2	3393.1	2674.7	1925.9	1066.4	465.1	234.4	179.0	179.0
35°	5695.8	5269.8	4282.8	3337.6	2481.8	1556.6	658.0	225.7	137.4	134.8	136.1
37.5°	6868.0	6173.5	4565.2	3248.1	2224.6	1121.8	337.8	126.0	126.0	131.1	132.4
40°	7902.8	7118.8	4972.3	3122.0	1883.0	709.6	161.3	118.5	126.0	127.3	129.8
42.5°	8722.1	7877.6	5402.1	2931.7	1482.3	378.2	134.8	114.7	117.2	116.0	121.0
45°	9377.5	8476.3	5733.6	2682.2	1046.1	194.1	139.9	110.9	102.1	102.1	104.6
47.5°	9888.0	8931.4	5941.6	2411.2	636.5	156.3	139.9	98.4	92.0	93.3	94.5
50°	10336.7	9271.6	6013.4	2077.2	320.2	158.8	134.8	93.3	81.9	83.2	85.7
52.5°	10659.3	9511.1	5959.3	1662.5	176.5	161.3	128.6	85.7	70.6	76.8	79.4
55°	10902.6	9624.5	5780.3	1182.3	160.0	158.8	124.8	76.8	63.1	75.7	79.4
57.5°	11040.0	9662.4	5476.5	770.1	175.2	139.9	114.7	70.6	59.2	74.4	79.4
60°	11096.7	9593.0	5037.9	451.2	179.0	123.5	107.2	65.5	54.2	61.8	64.2
62.5°	11037.5	9415.3	4392.5	284.9	163.9	117.2	102.1	61.8	45.4	44.1	42.8
65°	10801.8	8975.4	3326.3	228.1	152.5	117.2	95.8	54.2	35.3	26.5	24.0
67.5°	10238.3	8068.0	1881.9	225.7	148.7	114.7	87.0	49.2	27.8	13.9	11.3
68°	10068.2	7807.0	1585.6	229.4	152.5	114.7	85.7	46.6	26.5	11.3	8.8
70°	9030.9	6399.1	547.0	220.6	173.9	121.0	81.9	40.4	21.4	5.1	3.8
72.5°	6876.8	3931.3	242.0	177.7	191.6	126.0	81.9	39.1	17.6	1.3	0.0
75°	3998.0	968.0	206.7	119.8	160.0	150.0	94.5	45.4	16.4	0.0	0.0
77.5°	969.3	223.1	180.3	69.3	126.0	163.9	112.1	50.5	17.6	0.0	0.0
80°	230.6	173.9	175.2	44.1	100.8	146.2	97.1	54.2	25.2	0.0	0.0
82.5°	152.5	137.4	156.3	24.0	58.0	108.4	68.0	34.0	31.5	0.0	0.0
85°	103.3	126.0	89.5	13.9	22.7	36.6	27.8	5.1	6.3	0.0	0.0
87.5°	58.0	36.6	15.2	6.3	5.1	3.8	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)