

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: P285846

Luminaire Tested: **USSL-XL-C049-D-U-T4-BZ-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285846
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-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27643 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - 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

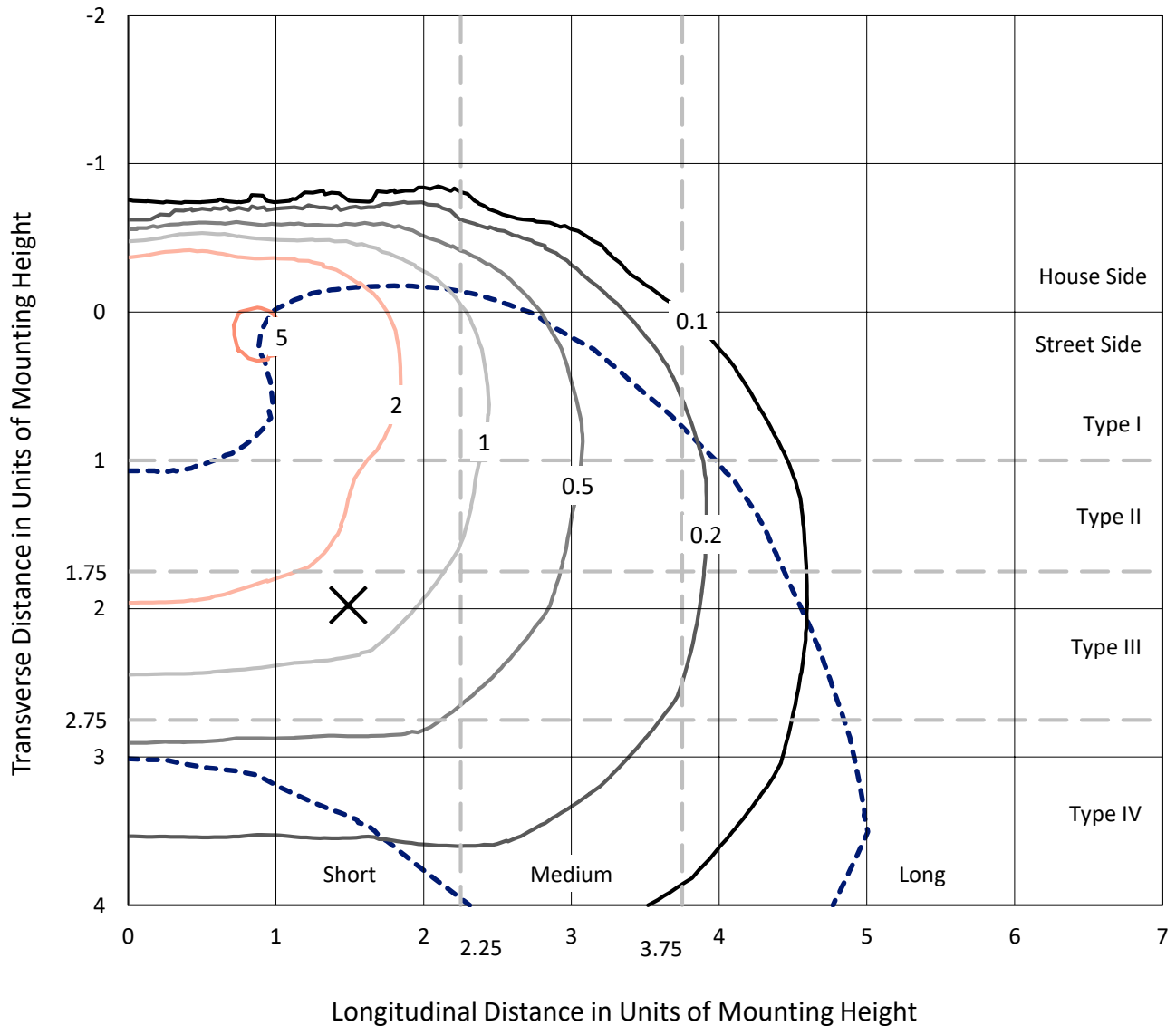


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

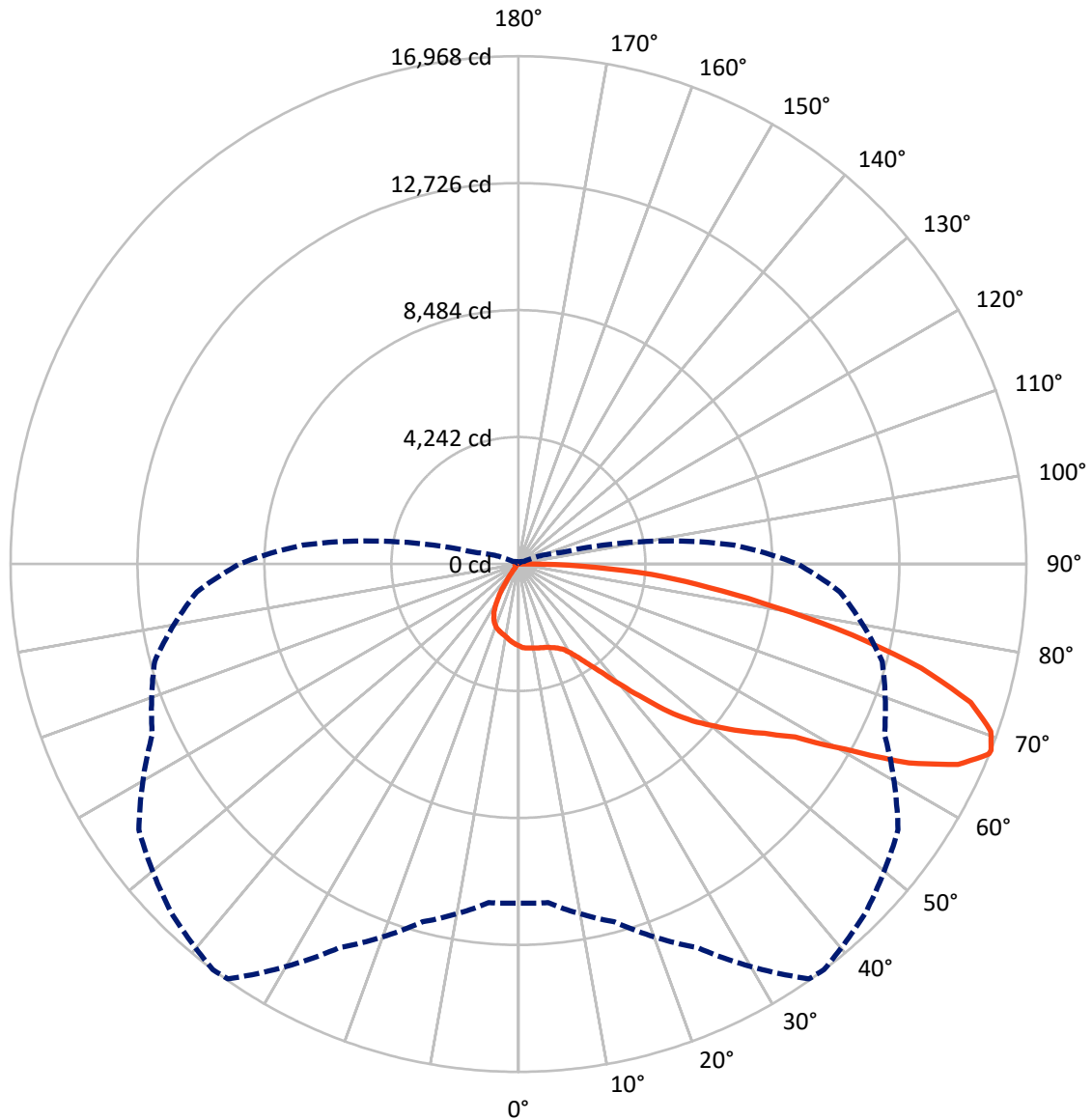


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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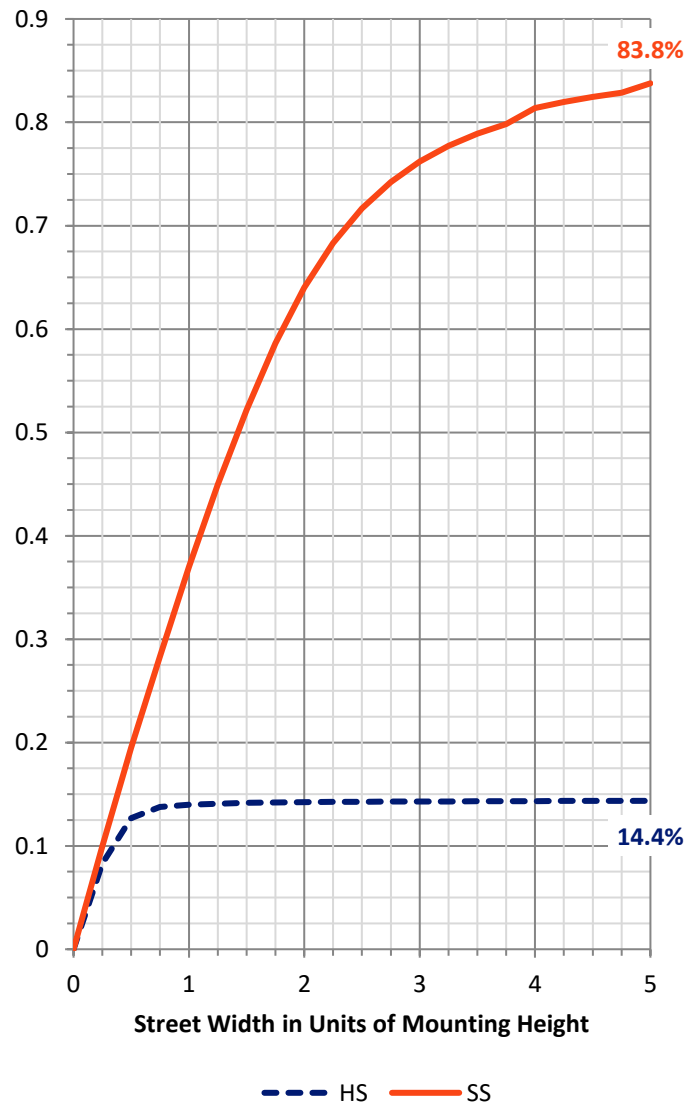
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4015.3	0.0	4015.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	23627.7	0.0	23627.7
	% Fixture	85.5	0.0	85.5
Total	Lumens	27643.0	0.0	27643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	0.9
10°-20°	767.0	2.8
20°-30°	1281.7	4.6
30°-40°	2081.8	7.5
40°-50°	3760.9	13.6
50°-60°	5602.2	20.3
60°-70°	7297.8	26.4
70°-80°	5373.0	19.4
80°-90°	1220.4	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°	27643.0	100.0
0°-180°	27643.0	100.0

Coefficient of Utilization



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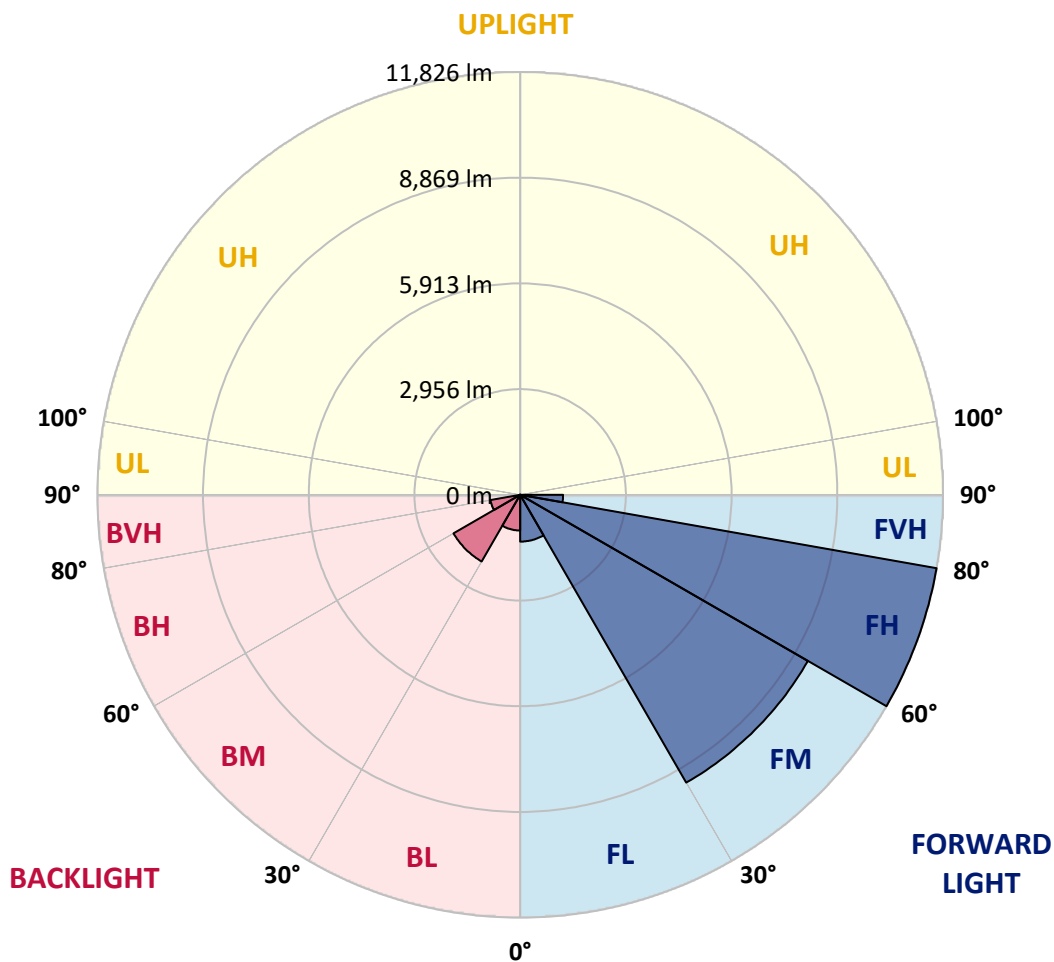
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1308.4	4.7			
FM	(30°-60°)	9293.1	33.6			
FH	(60°-80°)	11825.8	42.8			G4/12000
FVH	(80°-90°)	1200.4	4.3			G5
BL	(0°-30°)	998.6	3.6	B2/1000		
BM	(30°-60°)	2151.8	7.8	B2/2500		
BH	(60°-80°)	844.9	3.1	B2/1000		G2/1000
BVH	(80°-90°)	20.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6
2.5°	2795.1	2797.5	2797.5	2794.0	2798.6	2795.1	2787.0	2778.8	2769.5	2732.1	2723.9
5°	2808.0	2813.8	2813.8	2812.7	2819.7	2818.5	2811.5	2804.5	2794.0	2749.6	2734.4
7.5°	2815.0	2820.8	2822.0	2819.7	2833.7	2836.0	2831.3	2831.3	2823.2	2778.8	2756.6
10°	2813.8	2815.0	2818.5	2824.3	2846.5	2852.3	2858.2	2867.5	2867.5	2831.3	2805.6
12.5°	2783.5	2784.6	2796.3	2823.2	2867.5	2876.9	2894.4	2920.1	2932.9	2913.1	2890.9
15°	2762.4	2762.4	2778.8	2820.8	2888.5	2901.4	2938.7	2978.4	3015.8	3013.5	3008.8
17.5°	2781.1	2784.6	2810.3	2846.5	2915.4	2929.4	2978.4	3042.7	3102.2	3127.9	3132.6
20°	2837.2	2840.7	2868.7	2906.1	2965.6	2976.1	3024.0	3101.0	3189.8	3245.8	3278.5
22.5°	2920.1	2922.4	2944.6	2972.6	3031.0	3038.0	3084.7	3167.6	3279.7	3375.4	3432.6
25°	2998.3	3003.0	3022.8	3043.8	3109.2	3115.0	3172.3	3259.8	3390.6	3519.0	3624.1
27.5°	3077.7	3085.9	3110.4	3139.6	3234.1	3236.5	3289.0	3375.4	3530.7	3705.8	3862.3
30°	3254.0	3244.6	3265.7	3304.2	3437.3	3445.5	3498.0	3594.9	3739.7	3937.0	4163.5
32.5°	3554.1	3543.5	3542.4	3599.6	3722.2	3761.9	3819.1	3972.0	4153.0	4349.2	4586.2
35°	4147.2	4130.8	4052.6	4033.9	4106.3	4162.3	4276.8	4500.9	4805.7	5234.2	5503.9
37.5°	5132.6	5111.6	4939.9	4738.0	4634.0	4669.1	4764.8	5075.4	5586.8	6494.0	6761.3
40°	6106.3	6111.0	5903.2	5566.9	5340.4	5347.4	5308.9	5667.3	6428.6	7669.7	7778.3
42.5°	7036.9	7028.7	6774.2	6467.1	6177.6	6120.3	5976.7	6287.3	7216.7	8617.8	8571.1
45°	7862.3	7846.0	7562.3	7390.7	7073.1	7042.7	6812.7	6916.6	8011.8	9372.0	9212.0
47.5°	8650.4	8636.4	8300.2	8137.9	7882.2	7829.7	7613.7	7666.2	8749.7	9965.1	9728.1
50°	9471.2	9499.3	9010.1	8823.2	8588.6	8519.7	8411.1	8442.6	9510.9	10523.2	10168.3
52.5°	10468.3	10327.1	9808.7	9463.1	9275.1	9261.1	9122.1	9188.7	10348.1	11013.6	10560.6
55°	11532.0	11345.2	10835.0	10384.3	9962.8	9987.3	9781.8	9879.9	11100.0	11437.4	10870.0
57.5°	12258.2	12253.5	12118.1	11687.3	10952.9	10901.5	10520.9	10603.8	11758.5	11875.2	11102.3
60°	12952.9	13143.2	13289.2	13096.5	12740.4	12576.9	11512.1	11358.0	12359.8	12271.0	11235.4
62.5°	13419.9	13478.3	14028.2	14190.5	14670.4	14638.9	13493.5	12271.0	12872.3	12527.9	11278.6
65°	12990.3	13038.1	13872.9	14654.0	16079.6	16145.0	15667.5	13778.4	13276.3	12616.6	11189.9
67.5°	11658.1	11693.1	12673.9	14290.9	16863.1	16949.5	16392.5	15351.1	13480.6	12601.5	10887.5
68°	11333.5	11358.0	12376.1	14138.0	16921.4	16968.1	16428.7	15481.8	13497.0	12584.0	10789.4
70°	9940.6	9935.9	10898.0	13229.6	16732.3	16746.3	16219.7	15624.3	13432.8	12418.2	10163.6
72.5°	7686.0	7835.5	8637.6	11143.2	15689.7	15801.7	15527.4	15230.8	13159.6	11748.0	8665.6
75°	5468.8	5585.6	6409.9	8690.1	13543.7	13897.5	14384.3	14492.9	12167.1	10097.1	6384.2
77.5°	3815.6	3939.3	4709.9	6490.5	10948.2	11410.6	12438.0	12599.1	10233.7	7654.5	3257.5
80°	2441.4	2559.3	3266.8	4720.4	8266.3	8661.0	9784.1	9551.8	7161.8	4100.5	570.9
82.5°	1484.0	1543.5	2078.3	3228.3	6024.6	6391.2	6764.8	5736.2	3428.0	580.3	183.3
85°	843.0	885.0	1275.0	2085.3	4255.8	4468.2	4552.3	2862.9	713.4	156.5	105.1
87.5°	224.2	311.7	688.9	1285.5	2141.3	2086.4	2248.7	1025.1	128.4	67.7	50.2
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°	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6	2735.6
2.5°	2714.6	2712.2	2704.1	2700.6	2704.1	2700.6	2674.9	2677.2	2677.2	2664.4	2656.2
5°	2720.4	2714.6	2688.9	2684.2	2670.2	2648.0	2606.0	2596.7	2588.5	2567.5	2564.0
7.5°	2736.8	2728.6	2687.7	2669.0	2630.5	2590.8	2533.6	2499.7	2483.4	2457.7	2461.2
10°	2784.6	2767.1	2708.7	2672.5	2600.2	2534.8	2451.9	2400.5	2370.1	2331.6	2344.5
12.5°	2871.0	2844.2	2771.8	2708.7	2597.8	2500.9	2383.0	2288.4	2240.5	2196.2	2209.0
15°	2989.0	2959.8	2871.0	2775.3	2628.2	2486.9	2324.6	2175.2	2088.8	2031.6	2035.1
17.5°	3120.9	3095.2	2993.6	2866.4	2674.9	2477.6	2258.1	2057.2	1899.6	1817.9	1815.6
20°	3261.0	3245.8	3134.9	2963.3	2722.7	2456.5	2172.8	1906.6	1689.5	1551.7	1540.0
22.5°	3422.1	3415.1	3285.5	3059.0	2744.9	2408.7	2058.4	1719.8	1431.4	1244.6	1232.9
25°	3633.4	3622.9	3435.0	3125.6	2735.6	2328.1	1898.5	1495.6	1104.5	889.7	880.3
27.5°	3888.0	3835.4	3566.9	3159.4	2690.1	2200.8	1689.5	1162.9	742.6	547.6	542.9
30°	4174.0	4071.3	3682.5	3162.9	2606.0	2023.4	1382.4	751.9	432.0	308.2	305.9
32.5°	4545.3	4364.3	3807.4	3143.1	2477.6	1784.0	987.8	430.8	217.2	165.8	165.8
35°	5276.2	4881.6	3967.4	3091.7	2298.9	1441.9	609.5	209.0	127.3	124.9	126.1
37.5°	6362.0	5718.7	4228.9	3008.8	2060.7	1039.1	312.9	116.8	116.8	121.4	122.6
40°	7320.6	6594.4	4606.0	2892.0	1744.3	657.3	149.4	109.8	116.8	117.9	120.3
42.5°	8079.5	7297.2	5004.2	2715.7	1373.0	350.3	124.9	106.2	108.6	107.4	112.1
45°	8686.6	7851.8	5311.2	2484.6	969.1	179.8	129.6	102.7	94.6	94.6	96.9
47.5°	9159.5	8273.3	5503.9	2233.5	589.6	144.8	129.6	91.1	85.2	86.4	87.6
50°	9575.2	8588.6	5570.4	1924.1	296.6	147.1	124.9	86.4	75.9	77.1	79.4
52.5°	9874.0	8810.4	5520.2	1540.0	163.5	149.4	119.1	79.4	65.4	71.2	73.6
55°	10099.4	8915.5	5354.4	1095.2	148.3	147.1	115.6	71.2	58.4	70.1	73.6
57.5°	10226.7	8950.5	5073.0	713.4	162.3	129.6	106.2	65.4	54.9	68.9	73.6
60°	10279.2	8886.3	4666.7	418.0	165.8	114.4	99.2	60.7	50.2	57.2	59.5
62.5°	10224.3	8721.7	4068.9	263.9	151.8	108.6	94.6	57.2	42.0	40.9	39.7
65°	10006.0	8314.2	3081.2	211.3	141.3	108.6	88.7	50.2	32.7	24.5	22.2
67.5°	9484.1	7473.5	1743.2	209.0	137.8	106.2	80.6	45.5	25.7	12.8	10.5
68°	9326.5	7231.9	1468.8	212.5	141.3	106.2	79.4	43.2	24.5	10.5	8.2
70°	8365.6	5927.7	506.7	204.3	161.1	112.1	75.9	37.4	19.8	4.7	3.5
72.5°	6370.2	3641.6	224.2	164.6	177.5	116.8	75.9	36.2	16.3	1.2	0.0
75°	3703.5	896.7	191.5	110.9	148.3	138.9	87.6	42.0	15.2	0.0	0.0
77.5°	897.9	206.7	167.0	64.2	116.8	151.8	103.9	46.7	16.3	0.0	0.0
80°	213.7	161.1	162.3	40.9	93.4	135.4	89.9	50.2	23.4	0.0	0.0
82.5°	141.3	127.3	144.8	22.2	53.7	100.4	63.0	31.5	29.2	0.0	0.0
85°	95.7	116.8	82.9	12.8	21.0	33.9	25.7	4.7	5.8	0.0	0.0
87.5°	53.7	33.9	14.0	5.8	4.7	3.5	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)