

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: P285850

Luminaire Tested: **USSL-XL-C047-D-U-T4-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285850
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-C047-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: 25094.1 lumens
Efficiency: N/A
Efficacy: 142.6 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

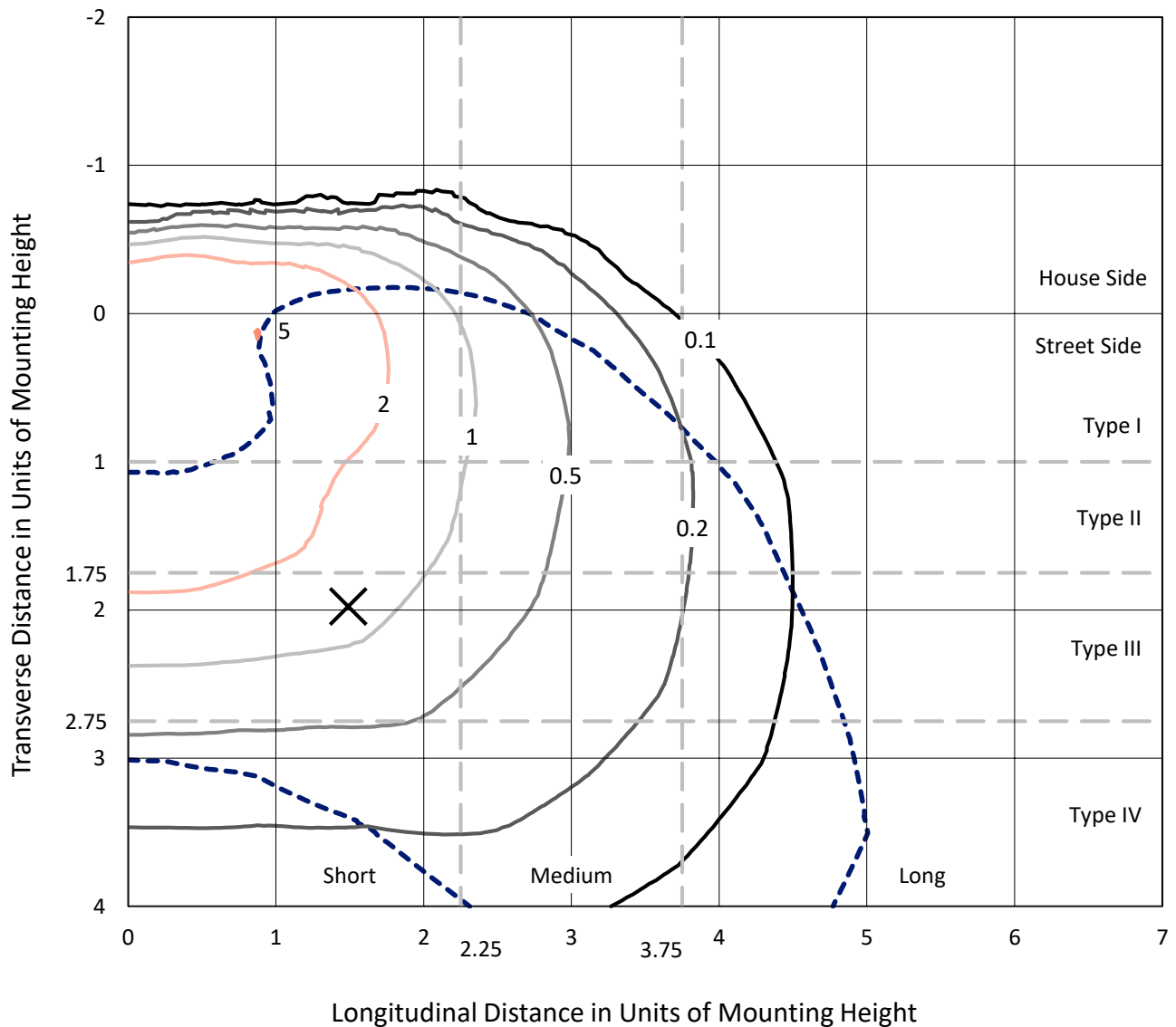
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

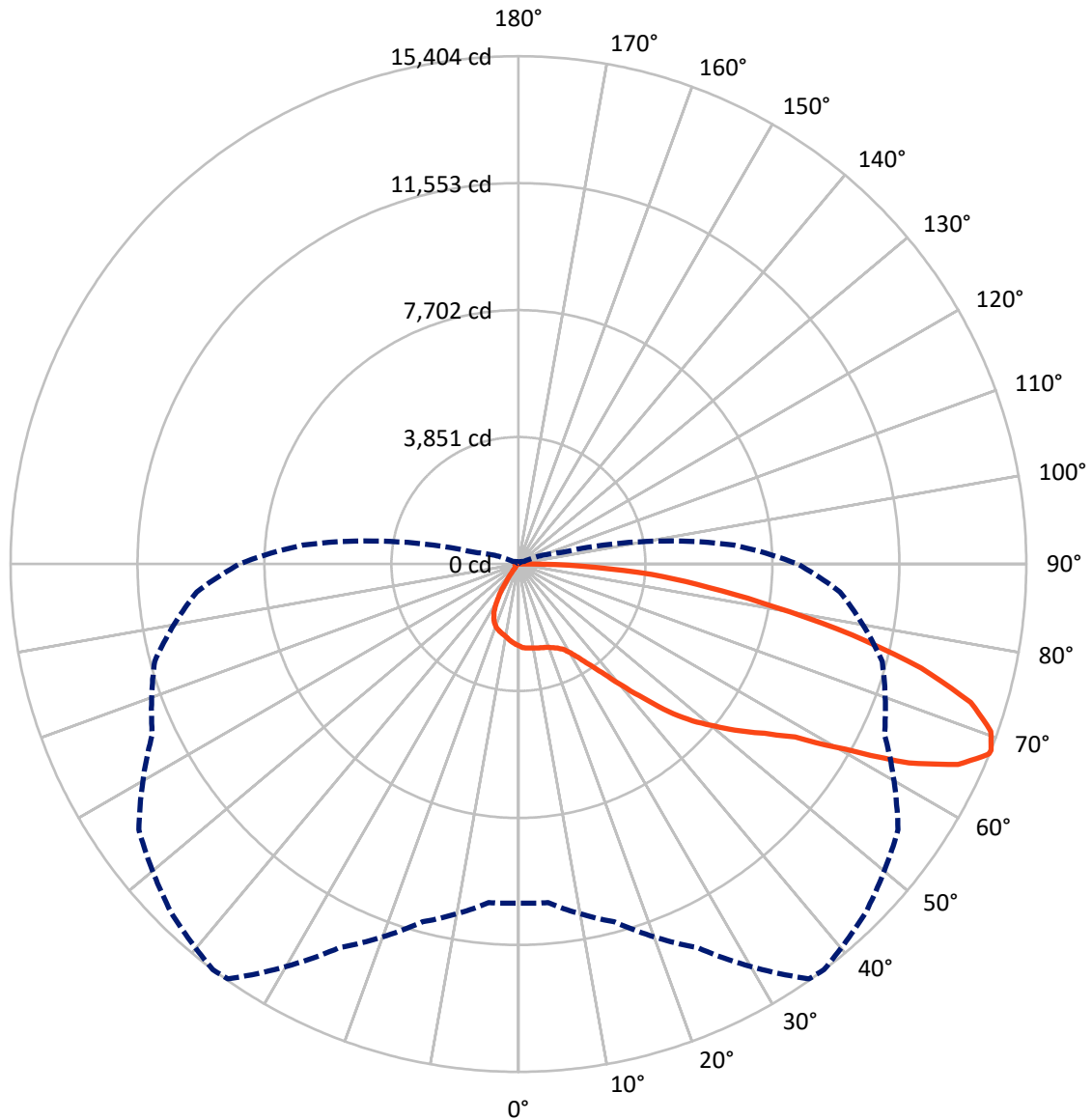
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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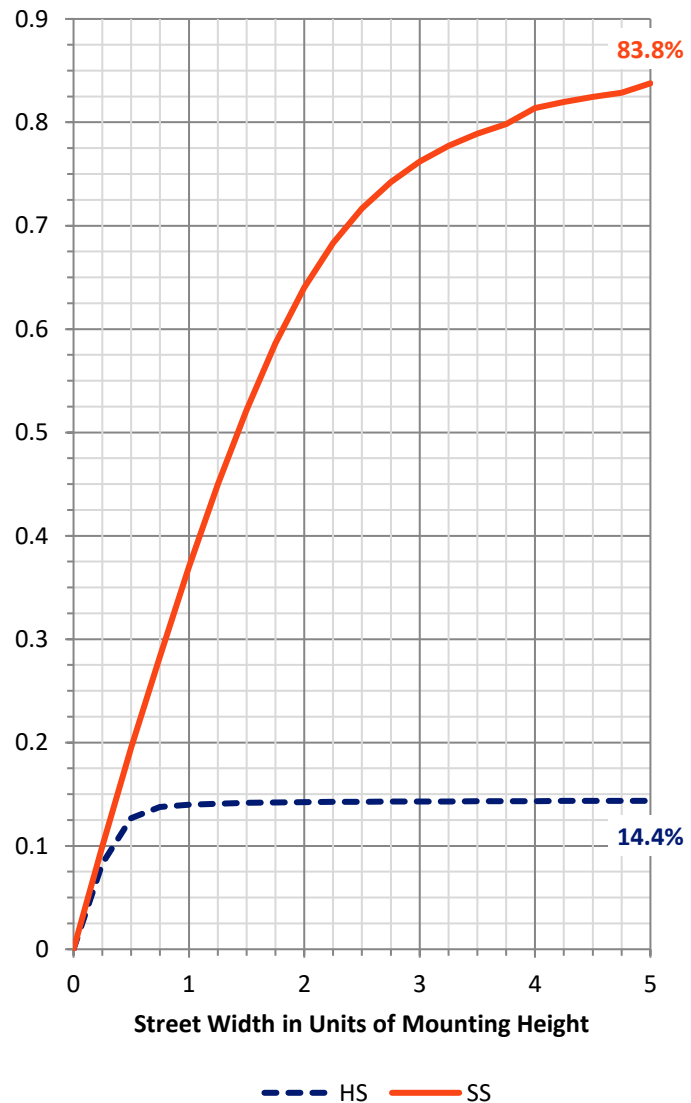
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3645.0	0.0	3645.0
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	21449.1	0.0	21449.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	25094.1	0.0	25094.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	0.9
10°-20°	696.2	2.8
20°-30°	1163.5	4.6
30°-40°	1889.8	7.5
40°-50°	3414.1	13.6
50°-60°	5085.6	20.3
60°-70°	6624.9	26.4
70°-80°	4877.6	19.4
80°-90°	1107.9	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°	25094.1	100.0
0°-180°	25094.1	100.0

Coefficient of Utilization



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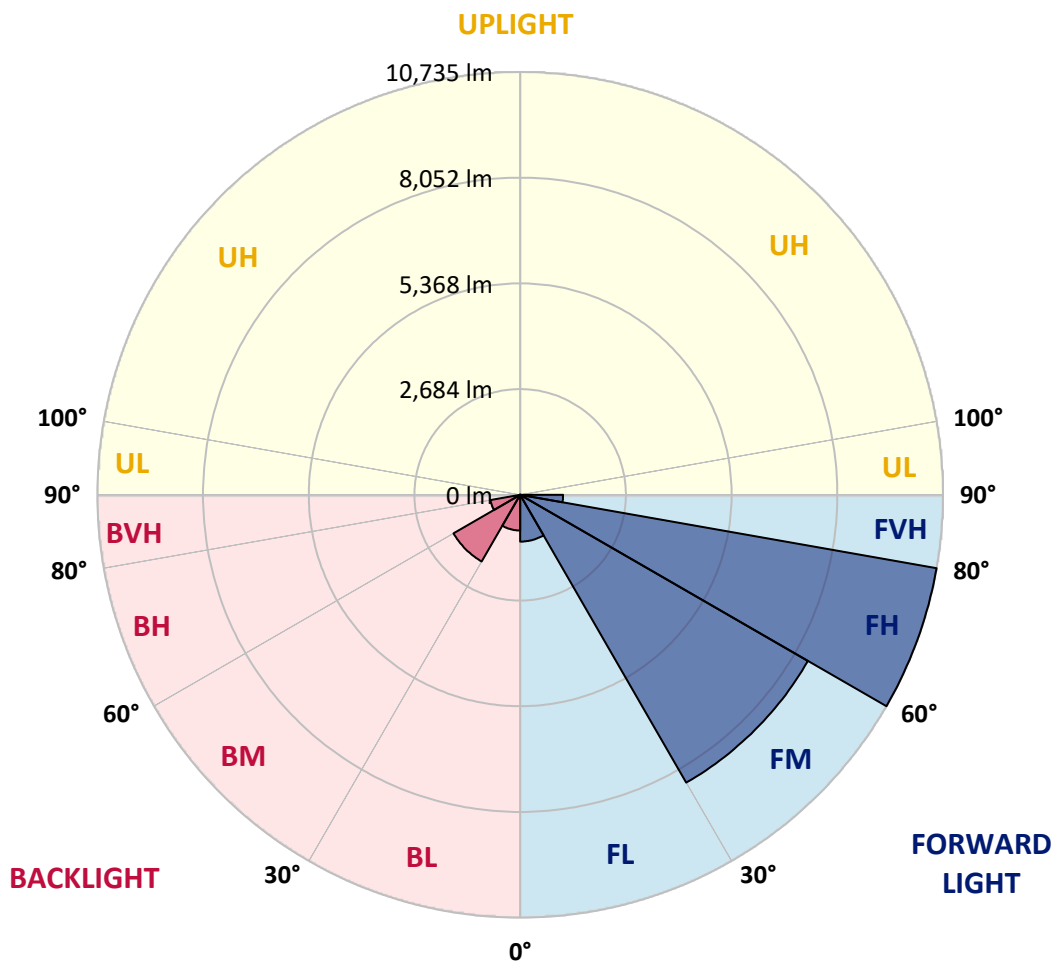
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.8	4.7			
FM	(30°-60°)	8436.2	33.6			
FH	(60°-80°)	10735.5	42.8			G4/12000
FVH	(80°-90°)	1089.7	4.3			G5
BL	(0°-30°)	906.5	3.6	B2/1000		
BM	(30°-60°)	1953.3	7.8	B2/2500		
BH	(60°-80°)	767.0	3.1	B2/1000		G2/1000
BVH	(80°-90°)	18.2	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°	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3
2.5°	2537.4	2539.5	2539.5	2536.3	2540.6	2537.4	2530.0	2522.6	2514.1	2480.2	2472.7
5°	2549.1	2554.4	2554.4	2553.3	2559.7	2558.6	2552.2	2545.9	2536.3	2496.1	2482.3
7.5°	2555.4	2560.7	2561.8	2559.7	2572.4	2574.5	2570.3	2570.3	2562.8	2522.6	2502.4
10°	2554.4	2555.4	2558.6	2563.9	2584.0	2589.3	2594.6	2603.1	2603.1	2570.3	2546.9
12.5°	2526.8	2527.9	2538.5	2562.8	2603.1	2611.6	2627.5	2650.8	2662.5	2644.5	2624.3
15°	2507.7	2507.7	2522.6	2560.7	2622.2	2633.9	2667.8	2703.8	2737.7	2735.6	2731.4
17.5°	2524.7	2527.9	2551.2	2584.0	2646.6	2659.3	2703.8	2762.1	2816.2	2839.5	2843.7
20°	2575.6	2578.7	2604.2	2638.1	2692.1	2701.7	2745.1	2815.1	2895.6	2946.5	2976.2
22.5°	2650.8	2652.9	2673.1	2698.5	2751.5	2757.9	2800.3	2875.5	2977.3	3064.2	3116.1
25°	2721.8	2726.1	2744.1	2763.2	2822.5	2827.8	2879.7	2959.2	3077.9	3194.5	3289.9
27.5°	2793.9	2801.3	2823.6	2850.1	2935.9	2938.0	2985.7	3064.2	3205.1	3364.1	3506.1
30°	2953.9	2945.5	2964.5	2999.5	3120.3	3127.8	3175.5	3263.4	3394.9	3574.0	3779.6
32.5°	3226.3	3216.8	3215.7	3267.7	3379.0	3415.0	3466.9	3605.8	3770.1	3948.1	4163.3
35°	3764.8	3749.9	3678.9	3662.0	3727.7	3778.5	3882.4	4085.9	4362.5	4751.5	4996.4
37.5°	4659.3	4640.2	4484.4	4301.1	4206.7	4238.5	4325.5	4607.4	5071.6	5895.2	6137.9
40°	5543.3	5547.5	5358.9	5053.6	4848.0	4854.3	4819.4	5144.8	5835.8	6962.5	7061.1
42.5°	6388.0	6380.6	6149.5	5870.8	5607.9	5556.0	5425.6	5707.6	6551.2	7823.1	7780.7
45°	7137.4	7122.5	6865.0	6709.2	6420.9	6393.3	6184.5	6278.8	7273.0	8507.8	8362.6
47.5°	7852.8	7840.1	7534.8	7387.5	7155.4	7107.7	6911.6	6959.3	7942.9	9046.2	8831.1
50°	8597.9	8623.3	8179.2	8009.7	7796.6	7734.1	7635.5	7664.1	8633.9	9552.9	9230.7
52.5°	9503.1	9374.8	8904.2	8590.5	8419.8	8407.1	8281.0	8341.4	9393.9	9998.0	9586.8
55°	10468.6	10299.0	9835.9	9426.8	9044.1	9066.4	8879.8	8968.9	10076.5	10382.8	9867.7
57.5°	11128.0	11123.8	11000.8	10609.6	9942.9	9896.3	9550.8	9626.0	10674.3	10780.3	10078.6
60°	11758.6	11931.4	12063.9	11889.0	11565.7	11417.3	10450.6	10310.7	11220.2	11139.7	10199.4
62.5°	12182.6	12235.6	12734.8	12882.1	13317.7	13289.1	12249.4	11139.7	11685.5	11372.8	10238.6
65°	11792.6	11836.0	12593.8	13302.9	14597.0	14656.4	14222.9	12508.0	12052.2	11453.4	10158.1
67.5°	10583.1	10614.9	11505.3	12973.3	15308.2	15386.7	14881.1	13935.7	12237.7	11439.6	9883.6
68°	10288.4	10310.7	11235.0	12834.4	15361.2	15403.6	14914.0	14054.4	12252.5	11423.7	9794.5
70°	9024.0	9019.7	9893.1	12009.8	15189.5	15202.3	14724.2	14183.7	12194.3	11273.2	9226.4
72.5°	6977.3	7113.0	7841.1	10115.7	14243.0	14344.8	14095.7	13826.5	11946.2	10664.7	7866.6
75°	4964.6	5070.6	5818.9	7888.8	12294.9	12616.1	13058.1	13156.6	11045.3	9166.0	5795.5
77.5°	3463.8	3576.1	4275.6	5892.0	9938.7	10358.4	11291.2	11437.5	9290.0	6948.7	2957.1
80°	2216.3	2323.3	2965.6	4285.2	7504.1	7862.3	8882.0	8671.0	6501.4	3722.4	518.3
82.5°	1347.1	1401.2	1886.6	2930.6	5469.1	5801.9	6141.1	5207.3	3111.9	526.8	166.4
85°	765.2	803.4	1157.4	1893.0	3863.3	4056.2	4132.6	2598.9	647.6	142.0	95.4
87.5°	203.5	283.0	625.3	1166.9	1943.9	1894.0	2041.4	930.6	116.6	61.5	45.6
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°	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3
2.5°	2464.3	2462.1	2454.7	2451.5	2454.7	2451.5	2428.2	2430.4	2430.4	2418.7	2411.3
5°	2469.6	2464.3	2440.9	2436.7	2424.0	2403.9	2365.7	2357.2	2349.8	2330.7	2327.5
7.5°	2484.4	2477.0	2439.9	2422.9	2388.0	2351.9	2300.0	2269.2	2254.4	2231.1	2234.3
10°	2527.9	2512.0	2459.0	2426.1	2360.4	2301.0	2225.8	2179.2	2151.6	2116.6	2128.3
12.5°	2606.3	2581.9	2516.2	2459.0	2358.3	2270.3	2163.3	2077.4	2033.9	1993.7	2005.3
15°	2713.3	2686.8	2606.3	2519.4	2385.8	2257.6	2110.3	1974.6	1896.2	1844.2	1847.4
17.5°	2833.1	2809.8	2717.6	2602.1	2428.2	2249.1	2049.8	1867.5	1724.5	1650.3	1648.1
20°	2960.3	2946.5	2845.8	2690.0	2471.7	2230.0	1972.5	1730.8	1533.7	1408.6	1398.0
22.5°	3106.6	3100.2	2982.6	2776.9	2491.8	2186.6	1868.6	1561.2	1299.4	1129.9	1119.3
25°	3298.4	3288.9	3118.2	2837.4	2483.3	2113.4	1723.4	1357.7	1002.7	807.6	799.2
27.5°	3529.5	3481.8	3238.0	2868.1	2442.0	1997.9	1533.7	1055.7	674.1	497.1	492.9
30°	3789.1	3695.9	3342.9	2871.3	2365.7	1836.8	1254.9	682.6	392.2	279.8	277.7
32.5°	4126.2	3961.9	3456.3	2853.3	2249.1	1619.5	896.7	391.1	197.1	150.5	150.5
35°	4789.7	4431.4	3601.5	2806.6	2086.9	1309.0	553.3	189.7	115.5	113.4	114.5
37.5°	5775.4	5191.4	3839.0	2731.4	1870.7	943.3	284.1	106.0	106.0	110.2	111.3
40°	6645.6	5986.3	4181.3	2625.4	1583.5	596.7	135.7	99.6	106.0	107.0	109.2
42.5°	7334.5	6624.4	4542.7	2465.3	1246.4	318.0	113.4	96.5	98.6	97.5	101.8
45°	7885.7	7127.8	4821.5	2255.5	879.7	163.2	117.6	93.3	85.9	85.9	88.0
47.5°	8314.9	7510.5	4996.4	2027.6	535.2	131.4	117.6	82.7	77.4	78.4	79.5
50°	8692.2	7796.6	5056.8	1746.7	269.2	133.5	113.4	78.4	68.9	70.0	72.1
52.5°	8963.6	7998.0	5011.2	1398.0	148.4	135.7	108.1	72.1	59.4	64.7	66.8
55°	9168.1	8093.4	4860.7	994.2	134.6	133.5	104.9	64.7	53.0	63.6	66.8
57.5°	9283.7	8125.2	4605.3	647.6	147.3	117.6	96.5	59.4	49.8	62.5	66.8
60°	9331.4	8066.9	4236.4	379.4	150.5	103.9	90.1	55.1	45.6	51.9	54.1
62.5°	9281.5	7917.5	3693.8	239.5	137.8	98.6	85.9	51.9	38.2	37.1	36.0
65°	9083.3	7547.5	2797.1	191.8	128.2	98.6	80.6	45.6	29.7	22.3	20.1
67.5°	8609.6	6784.4	1582.4	189.7	125.1	96.5	73.1	41.3	23.3	11.7	9.5
68°	8466.5	6565.0	1333.4	192.9	128.2	96.5	72.1	39.2	22.3	9.5	7.4
70°	7594.2	5381.1	460.0	185.5	146.3	101.8	68.9	33.9	18.0	4.2	3.2
72.5°	5782.8	3305.8	203.5	149.4	161.1	106.0	68.9	32.9	14.8	1.1	0.0
75°	3362.0	814.0	173.8	100.7	134.6	126.1	79.5	38.2	13.8	0.0	0.0
77.5°	815.1	187.6	151.6	58.3	106.0	137.8	94.3	42.4	14.8	0.0	0.0
80°	194.0	146.3	147.3	37.1	84.8	122.9	81.6	45.6	21.2	0.0	0.0
82.5°	128.2	115.5	131.4	20.1	48.8	91.2	57.2	28.6	26.5	0.0	0.0
85°	86.9	106.0	75.3	11.7	19.1	30.7	23.3	4.2	5.3	0.0	0.0
87.5°	48.8	30.7	12.7	5.3	4.2	3.2	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)