

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: P285845

Luminaire Tested: **USSL-XL-C047-D-U-T4-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285845
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-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K 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: 24638.4 lumens
Efficiency: N/A
Efficacy: 140.0 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

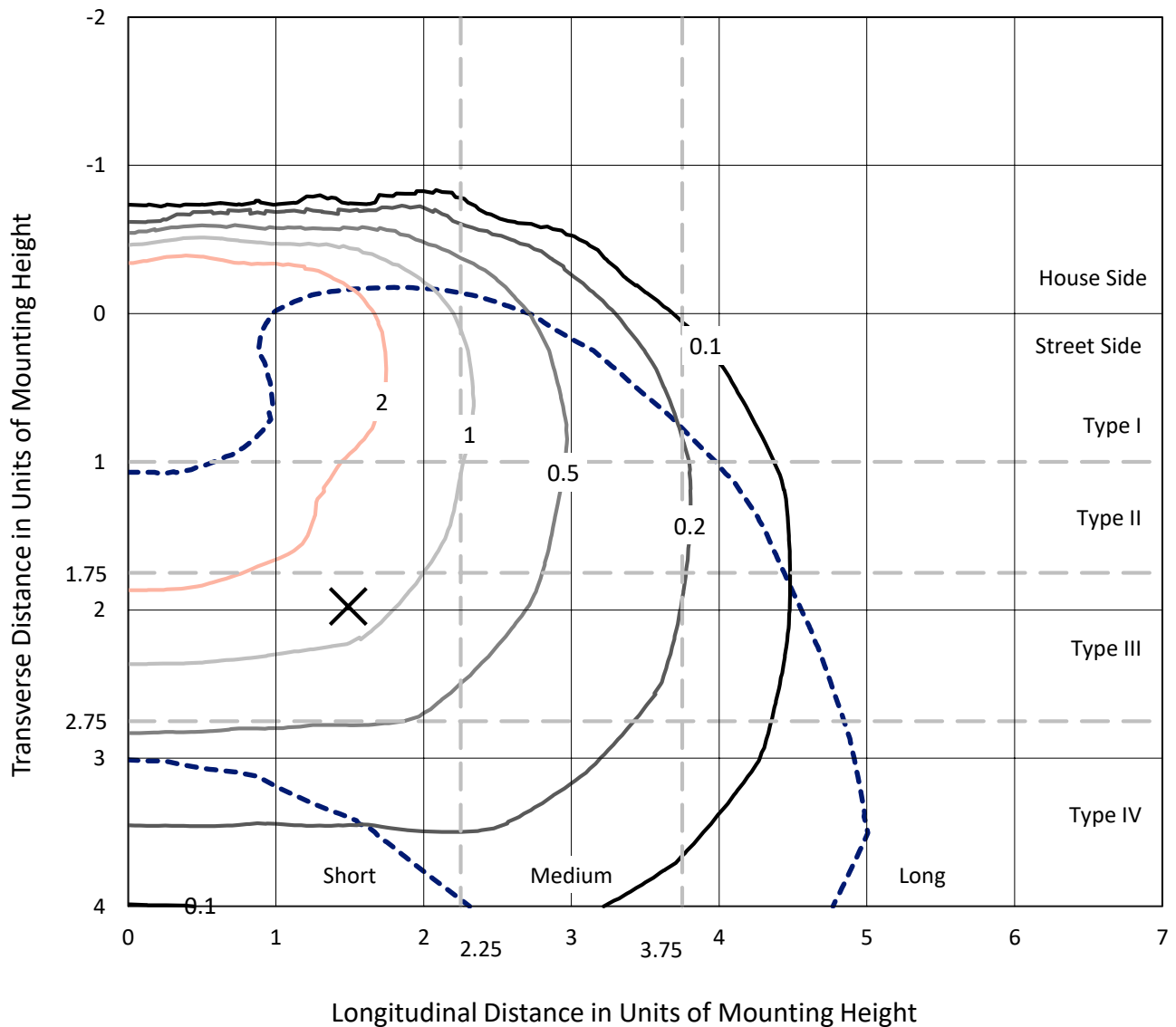


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

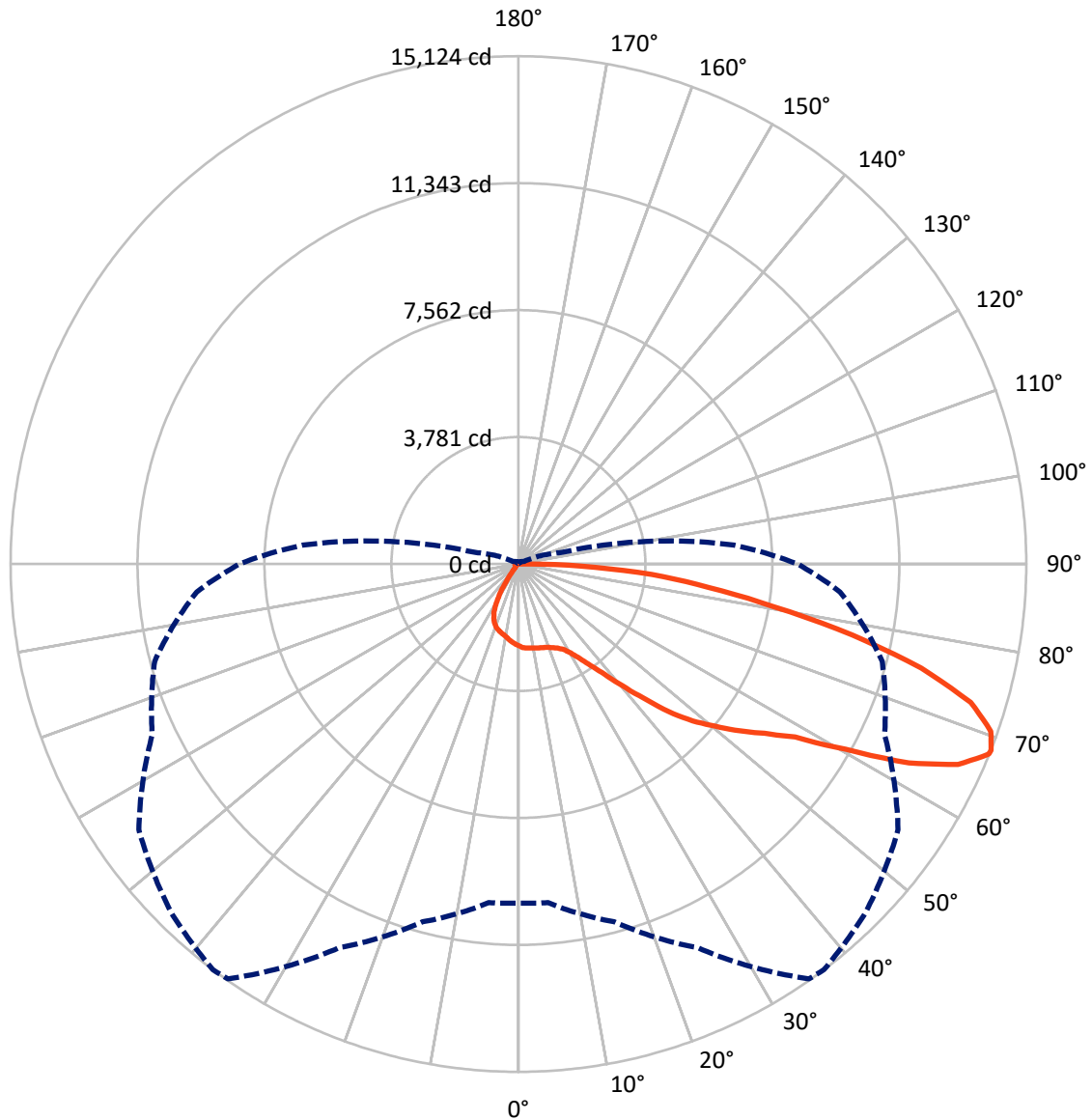


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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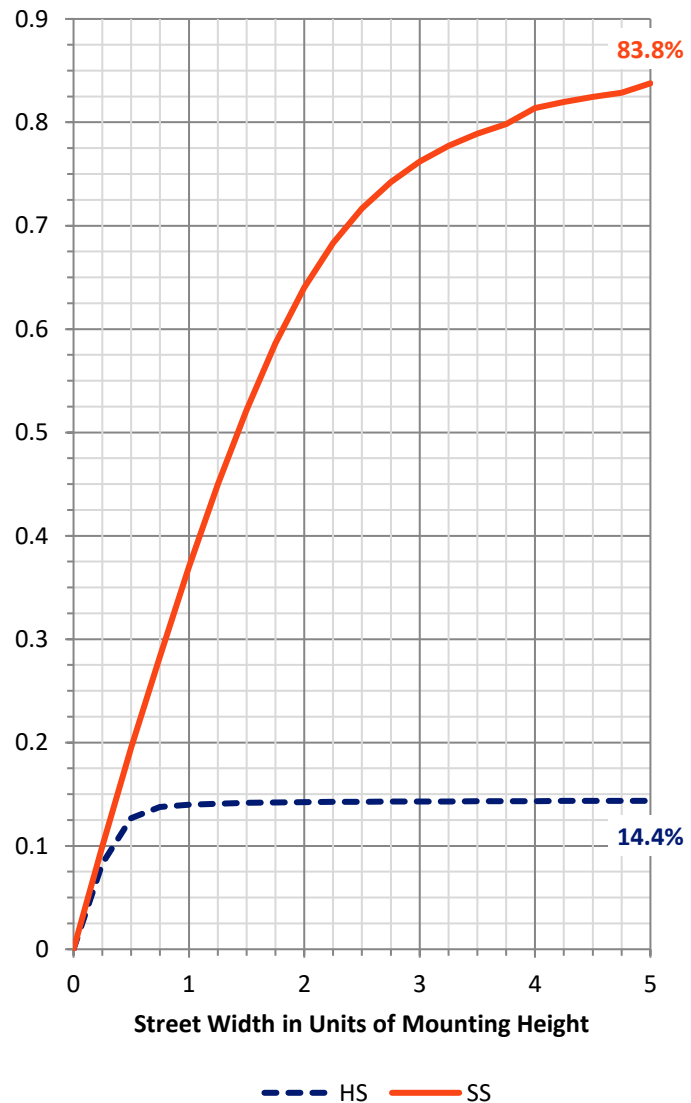
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3578.8	0.0	3578.8
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	21059.6	0.0	21059.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	24638.4	0.0	24638.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	0.9
10°-20°	683.6	2.8
20°-30°	1142.4	4.6
30°-40°	1855.5	7.5
40°-50°	3352.1	13.6
50°-60°	4993.3	20.3
60°-70°	6504.6	26.4
70°-80°	4789.0	19.4
80°-90°	1087.8	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°	24638.4	100.0
0°-180°	24638.4	100.0



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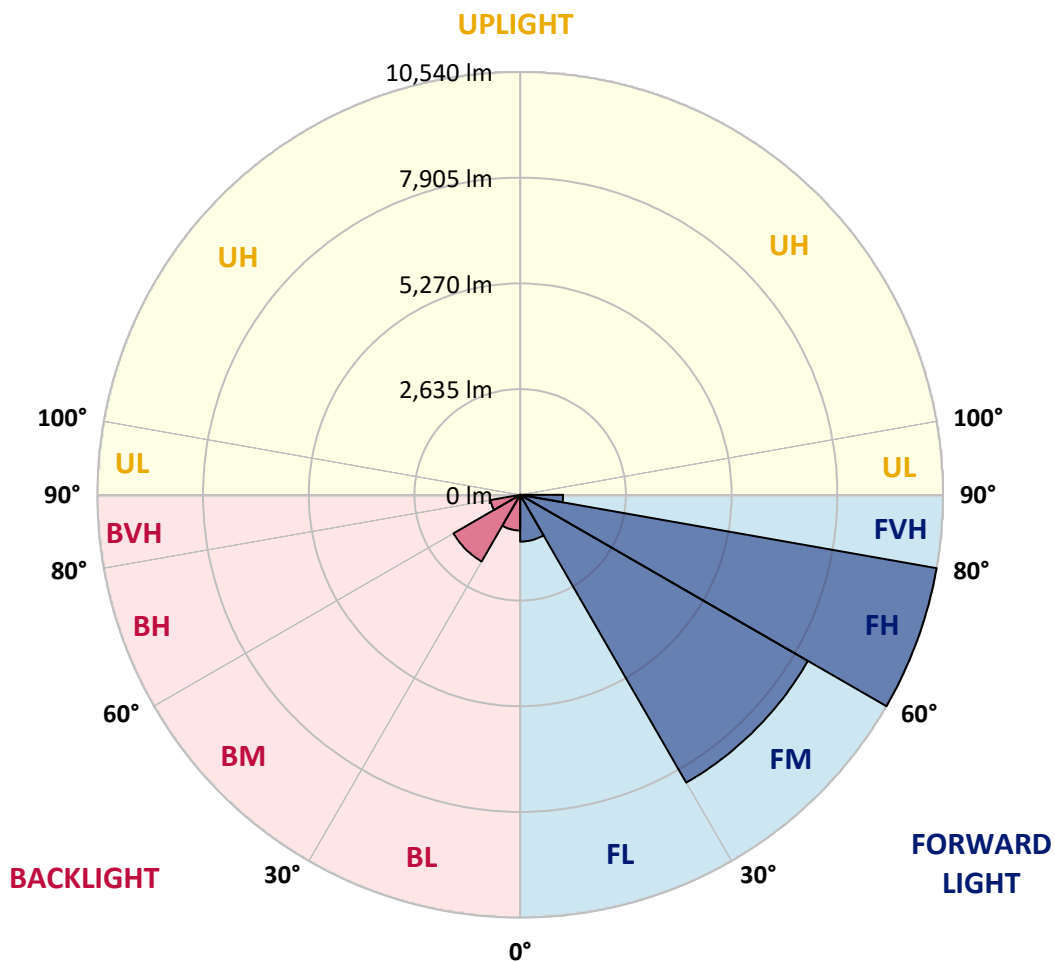
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1166.2	4.7			
FM	(30°-60°)	8283.0	33.6			
FH	(60°-80°)	10540.5	42.8			G4/12000
FVH	(80°-90°)	1069.9	4.3			G5
BL	(0°-30°)	890.1	3.6	B2/1000		
BM	(30°-60°)	1917.9	7.8	B2/2500		
BH	(60°-80°)	753.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	17.8	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°	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3
2.5°	2491.3	2493.4	2493.4	2490.3	2494.5	2491.3	2484.1	2476.8	2468.4	2435.1	2427.8
5°	2502.7	2507.9	2507.9	2507.0	2513.2	2512.2	2505.9	2499.7	2490.3	2450.7	2437.2
7.5°	2509.0	2514.2	2515.2	2513.2	2525.6	2527.8	2523.6	2523.6	2516.3	2476.8	2457.0
10°	2507.9	2509.0	2512.2	2517.4	2537.1	2542.3	2547.6	2555.8	2555.8	2523.6	2500.7
12.5°	2480.9	2482.0	2492.4	2516.3	2555.8	2564.2	2579.8	2602.7	2614.1	2596.4	2576.6
15°	2462.1	2462.1	2476.8	2514.2	2574.6	2586.1	2619.3	2654.7	2688.0	2685.9	2681.8
17.5°	2478.9	2482.0	2504.9	2537.1	2598.6	2611.0	2654.7	2712.0	2765.1	2788.0	2792.1
20°	2528.8	2531.9	2556.9	2590.2	2643.3	2652.6	2695.3	2764.0	2843.1	2893.0	2922.1
22.5°	2602.7	2604.8	2624.5	2649.5	2701.6	2707.8	2749.4	2823.3	2923.2	3008.5	3059.5
25°	2672.4	2676.6	2694.3	2713.0	2771.2	2776.5	2827.5	2905.5	3022.1	3136.6	3230.2
27.5°	2743.1	2750.4	2772.3	2798.3	2882.6	2884.7	2931.6	3008.5	3146.9	3303.1	3442.4
30°	2900.3	2891.9	2910.7	2945.0	3063.6	3071.0	3117.8	3204.2	3333.2	3509.1	3711.0
32.5°	3167.7	3158.4	3157.3	3208.3	3317.6	3353.0	3404.0	3540.3	3701.6	3876.5	4087.7
35°	3696.4	3681.9	3612.1	3595.5	3659.9	3710.0	3811.9	4011.7	4283.4	4665.3	4905.6
37.5°	4574.7	4556.0	4403.0	4223.0	4130.3	4161.6	4246.9	4523.8	4979.5	5788.1	6026.5
40°	5442.6	5446.8	5261.6	4961.8	4759.9	4766.2	4731.8	5051.4	5729.8	6836.0	6932.8
42.5°	6272.1	6264.8	6037.9	5764.2	5506.1	5455.1	5327.2	5603.9	6432.3	7681.1	7639.4
45°	7007.7	6993.2	6740.3	6587.4	6304.3	6277.3	6072.3	6164.8	7141.0	8353.4	8210.7
47.5°	7710.2	7697.7	7398.0	7253.3	7025.4	6978.6	6786.1	6833.0	7798.6	8882.0	8670.7
50°	8441.8	8466.8	8030.8	7864.2	7655.0	7593.7	7496.9	7525.0	8477.2	9379.5	9063.1
52.5°	9330.5	9204.6	8742.6	8434.5	8267.0	8254.5	8130.6	8190.0	9223.4	9816.5	9412.8
55°	10278.6	10112.1	9657.3	9255.6	8879.9	8901.8	8718.6	8806.1	9893.5	10194.2	9688.5
57.5°	10925.9	10921.6	10800.9	10416.9	9762.4	9716.6	9377.4	9451.2	10480.4	10584.5	9895.5
60°	11545.1	11714.7	11844.7	11673.0	11355.7	11209.9	10260.9	10123.5	11016.4	10937.3	10014.3
62.5°	11961.3	12013.3	12503.4	12648.1	13075.9	13047.7	12026.9	10937.3	11473.2	11166.3	10052.7
65°	11578.3	11621.0	12365.1	13061.3	14331.9	14390.2	13964.6	12280.7	11833.3	11245.3	9973.7
67.5°	10390.9	10422.2	11296.3	12737.7	15030.2	15107.2	14610.8	13682.6	12015.5	11231.8	9704.1
68°	10101.6	10123.5	11030.9	12601.3	15082.3	15123.8	14643.0	13799.1	12030.0	11216.2	9616.7
70°	8860.1	8856.0	9713.5	11791.7	14913.6	14926.1	14456.8	13926.0	11972.7	11068.4	9058.9
72.5°	6850.7	6983.8	7698.8	9932.0	13984.3	14084.3	13839.6	13575.3	11729.3	10471.1	7723.7
75°	4874.5	4978.5	5713.2	7745.6	12071.6	12386.9	12820.9	12917.6	10844.7	8999.6	5690.3
77.5°	3400.9	3511.1	4198.1	5785.0	9758.2	10170.4	11086.1	11229.7	9121.4	6822.6	2903.4
80°	2176.0	2281.1	2911.8	4207.4	7367.8	7719.6	8720.6	8513.6	6383.4	3654.7	508.9
82.5°	1322.6	1375.8	1852.4	2877.4	5369.8	5696.5	6029.6	5112.7	3055.4	517.2	163.3
85°	751.4	788.8	1136.4	1858.6	3793.2	3982.6	4057.5	2551.7	635.8	139.5	93.7
87.5°	199.8	277.9	614.0	1145.8	1908.6	1859.7	2004.3	913.7	114.5	60.3	44.7
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°	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3	2438.3
2.5°	2419.5	2417.4	2410.1	2407.0	2410.1	2407.0	2384.1	2386.3	2386.3	2374.8	2367.5
5°	2424.7	2419.5	2396.6	2392.5	2380.0	2360.2	2322.8	2314.4	2307.1	2288.4	2285.3
7.5°	2439.3	2432.0	2395.6	2378.9	2344.6	2309.2	2258.2	2228.0	2213.5	2190.6	2193.7
10°	2482.0	2466.4	2414.3	2382.0	2317.6	2259.3	2185.4	2139.6	2112.5	2078.1	2089.6
12.5°	2559.0	2535.1	2470.5	2414.3	2315.5	2229.1	2123.9	2039.7	1997.1	1957.4	1968.9
15°	2664.1	2638.1	2559.0	2473.6	2342.5	2216.6	2071.9	1938.8	1861.7	1810.7	1813.9
17.5°	2781.7	2758.8	2668.2	2554.8	2384.1	2208.3	2012.6	1833.6	1693.2	1620.3	1618.3
20°	2906.6	2893.0	2794.1	2641.2	2426.9	2189.5	1936.6	1699.3	1505.8	1383.1	1372.7
22.5°	3050.2	3043.9	2928.4	2726.5	2446.6	2146.8	1834.7	1532.9	1275.8	1109.3	1098.9
25°	3238.5	3229.2	3061.6	2785.8	2438.3	2075.1	1692.1	1333.0	984.4	793.0	784.6
27.5°	3465.3	3418.6	3179.2	2816.0	2397.7	1961.7	1505.8	1036.5	661.9	488.1	484.0
30°	3720.4	3628.8	3282.2	2819.1	2322.8	1803.4	1232.1	670.2	385.1	274.7	272.6
32.5°	4051.3	3889.9	3393.6	2801.4	2208.3	1590.2	880.4	384.0	193.5	147.8	147.8
35°	4702.7	4351.0	3536.1	2755.6	2049.0	1285.2	543.2	186.2	113.4	111.4	112.3
37.5°	5670.6	5097.2	3769.2	2681.8	1836.8	926.1	278.9	104.1	104.1	108.2	109.3
40°	6525.0	5877.6	4105.4	2577.7	1554.8	585.9	133.2	97.8	104.1	105.1	107.2
42.5°	7201.4	6504.1	4460.3	2420.6	1223.8	312.2	111.4	94.6	96.8	95.7	99.9
45°	7742.5	6998.4	4733.9	2214.6	863.7	160.3	115.5	91.6	84.3	84.3	86.4
47.5°	8164.0	7374.0	4905.6	1990.8	525.5	129.0	115.5	81.2	76.0	77.1	78.0
50°	8534.4	7655.0	4965.0	1715.0	264.3	131.1	111.4	77.1	67.6	68.7	70.8
52.5°	8800.8	7852.8	4920.3	1372.7	145.7	133.2	106.1	70.8	58.3	63.5	65.6
55°	9001.6	7946.5	4772.4	976.2	132.2	131.1	103.0	63.5	52.0	62.4	65.6
57.5°	9115.1	7977.7	4521.6	635.8	144.7	115.5	94.6	58.3	48.9	61.4	65.6
60°	9161.9	7920.4	4159.5	372.6	147.8	102.0	88.5	54.2	44.7	51.0	53.1
62.5°	9113.0	7773.7	3626.7	235.2	135.2	96.8	84.3	51.0	37.4	36.5	35.4
65°	8918.4	7410.5	2746.3	188.3	125.9	96.8	79.1	44.7	29.1	21.8	19.8
67.5°	8453.2	6661.3	1553.7	186.2	122.8	94.6	71.8	40.6	22.9	11.4	9.3
68°	8312.8	6445.8	1309.2	189.4	125.9	94.6	70.8	38.5	21.8	9.3	7.3
70°	7456.3	5283.4	451.6	182.1	143.6	99.9	67.6	33.3	17.7	4.1	3.1
72.5°	5677.8	3245.8	199.8	146.7	158.1	104.1	67.6	32.2	14.5	1.1	0.0
75°	3301.0	799.3	170.6	98.9	132.2	123.8	78.0	37.4	13.6	0.0	0.0
77.5°	800.2	184.2	148.8	57.2	104.1	135.2	92.6	41.7	14.5	0.0	0.0
80°	190.5	143.6	144.7	36.5	83.2	120.7	80.1	44.7	20.8	0.0	0.0
82.5°	125.9	113.4	129.0	19.8	47.9	89.5	56.2	28.1	26.0	0.0	0.0
85°	85.3	104.1	73.9	11.4	18.8	30.2	22.9	4.1	5.2	0.0	0.0
87.5°	47.9	30.2	12.5	5.2	4.1	3.1	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)