

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: P285855

Luminaire Tested: **USSL-XL-C047-D-U-T4-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285855
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-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K 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: 25550 lumens
Efficiency: N/A
Efficacy: 145.2 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

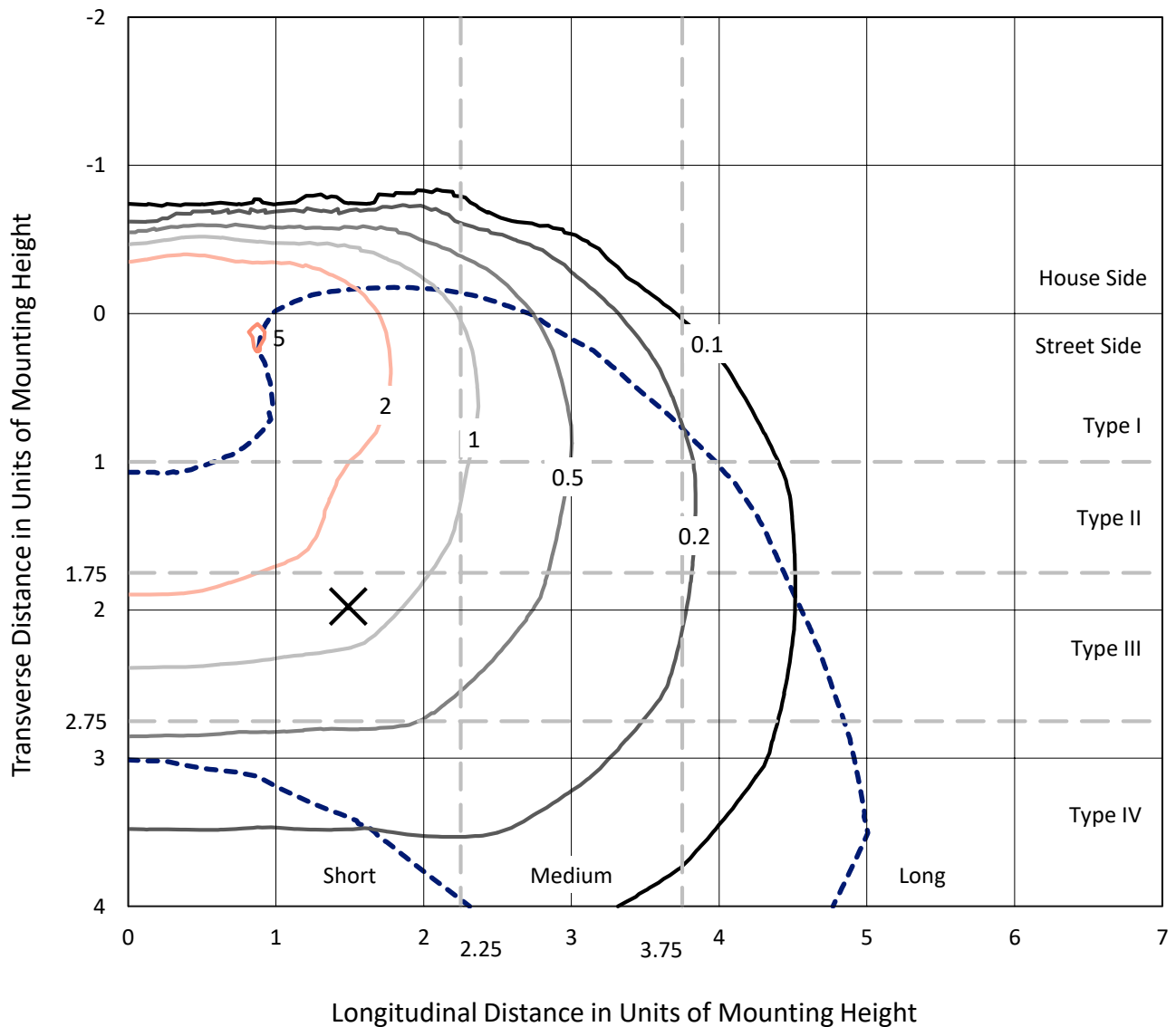


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

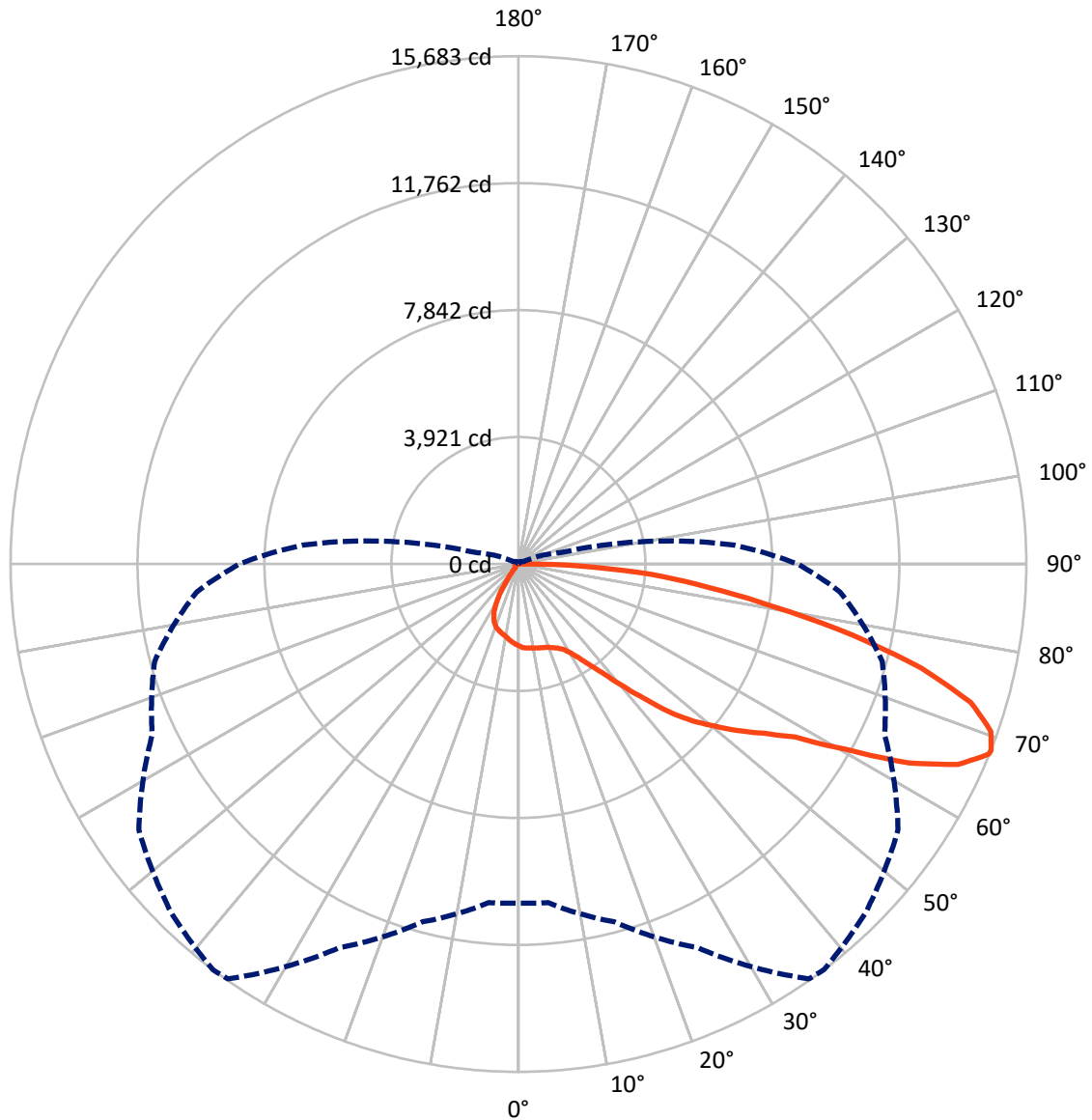


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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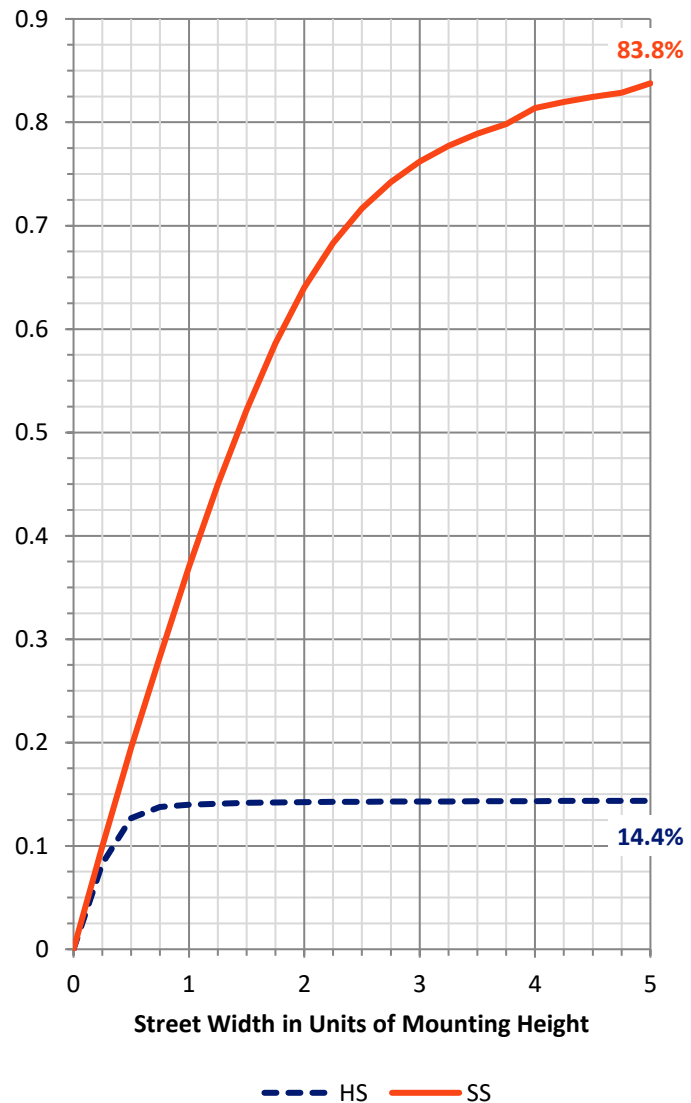
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3711.3	0.0	3711.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	21838.7	0.0	21838.7
	% Fixture	85.5	0.0	85.5
Total	Lumens	25550.0	0.0	25550.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	0.9
10°-20°	708.9	2.8
20°-30°	1184.6	4.6
30°-40°	1924.1	7.5
40°-50°	3476.1	13.6
50°-60°	5178.0	20.3
60°-70°	6745.2	26.4
70°-80°	4966.2	19.4
80°-90°	1128.0	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°	25550.0	100.0
0°-180°	25550.0	100.0



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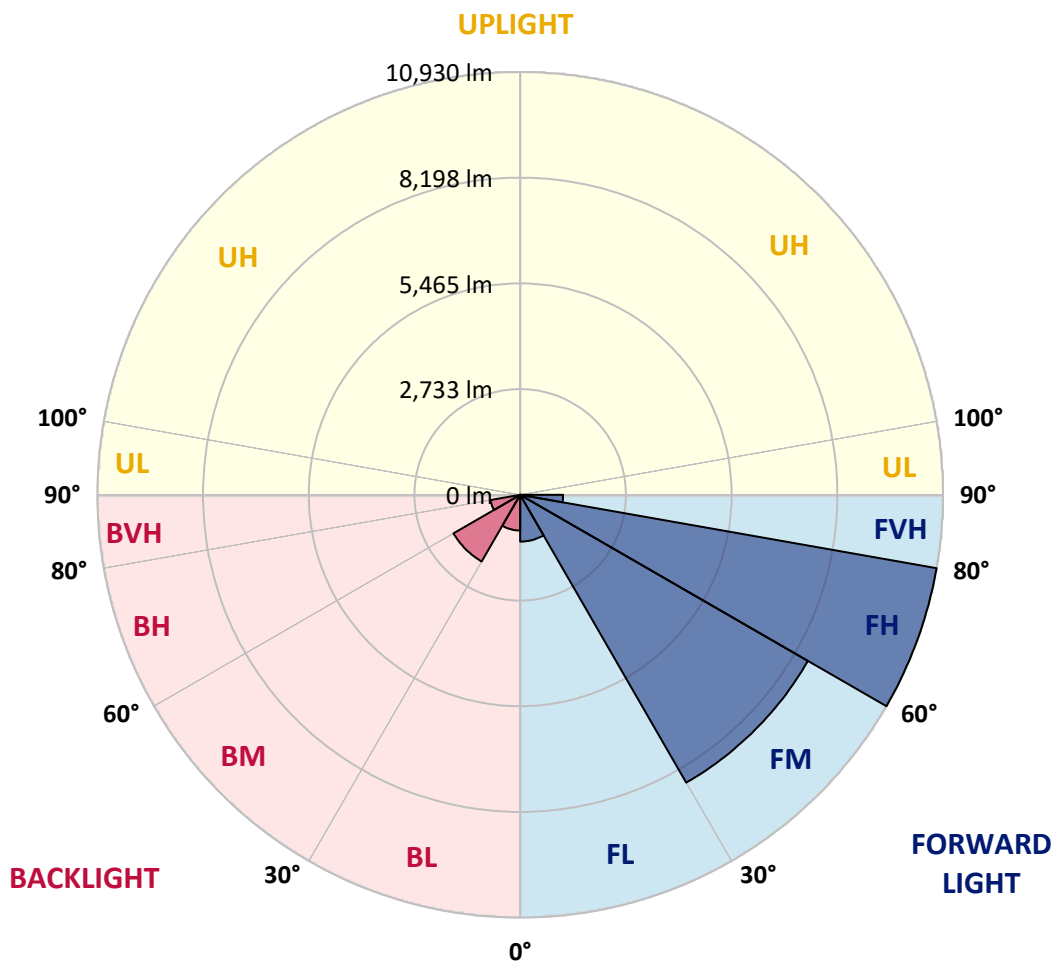
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1209.3	4.7			
FM	(30°-60°)	8589.4	33.6			
FH	(60°-80°)	10930.4	42.8			G4/12000
FVH	(80°-90°)	1109.5	4.3			G5
BL	(0°-30°)	923.0	3.6	B2/1000		
BM	(30°-60°)	1988.8	7.8	B2/2500		
BH	(60°-80°)	780.9	3.1	B2/1000		G2/1000
BVH	(80°-90°)	18.5	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°	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5
2.5°	2583.5	2585.6	2585.6	2582.4	2586.7	2583.5	2576.0	2568.3	2559.8	2525.2	2517.7
5°	2595.4	2600.8	2600.8	2599.7	2606.2	2605.1	2598.6	2592.1	2582.4	2541.4	2527.3
7.5°	2601.8	2607.2	2608.3	2606.2	2619.1	2621.2	2617.0	2617.0	2609.4	2568.3	2547.9
10°	2600.8	2601.8	2605.1	2610.4	2631.0	2636.4	2641.8	2650.4	2650.4	2617.0	2593.3
12.5°	2572.7	2573.8	2584.6	2609.4	2650.4	2659.1	2675.2	2698.9	2710.8	2692.5	2672.0
15°	2553.3	2553.3	2568.3	2607.2	2669.8	2681.7	2716.2	2752.9	2787.4	2785.3	2781.0
17.5°	2570.6	2573.8	2597.5	2631.0	2694.7	2707.6	2752.9	2812.2	2867.3	2891.1	2895.3
20°	2622.3	2625.6	2651.4	2686.0	2741.0	2750.8	2795.1	2866.3	2948.2	3000.0	3030.3
22.5°	2698.9	2701.2	2721.6	2747.6	2801.5	2808.0	2851.1	2927.8	3031.3	3119.8	3172.7
25°	2771.3	2775.6	2793.9	2813.4	2873.8	2879.2	2932.1	3013.0	3133.9	3252.6	3349.7
27.5°	2844.7	2852.2	2874.9	2901.9	2989.2	2991.5	3040.0	3119.8	3263.3	3425.3	3569.8
30°	3007.6	2999.0	3018.4	3054.0	3177.1	3184.6	3233.1	3322.7	3456.5	3639.0	3848.3
32.5°	3284.9	3275.2	3274.1	3327.0	3440.3	3477.0	3529.9	3671.3	3838.5	4019.9	4239.0
35°	3833.1	3818.1	3745.8	3728.5	3795.4	3847.2	3952.9	4160.1	4441.8	4837.8	5087.1
37.5°	4744.0	4724.5	4565.9	4379.2	4283.2	4315.5	4404.0	4691.1	5163.7	6002.2	6249.4
40°	5644.0	5648.3	5456.3	5145.4	4936.1	4942.5	4906.9	5238.2	5941.8	7088.9	7189.3
42.5°	6504.1	6496.6	6261.3	5977.4	5709.8	5656.9	5524.2	5811.2	6670.3	7965.3	7922.1
45°	7267.0	7251.9	6989.7	6831.1	6537.6	6509.5	6296.9	6392.9	7405.2	8662.4	8514.5
47.5°	7995.5	7982.5	7671.7	7521.7	7285.3	7236.8	7037.2	7085.7	8087.1	9210.6	8991.6
50°	8754.1	8780.0	8327.8	8155.2	7938.2	7874.6	7774.3	7803.4	8790.8	9726.4	9398.3
52.5°	9675.7	9545.1	9066.0	8746.5	8572.8	8559.9	8431.4	8493.0	9564.5	10179.7	9760.9
55°	10658.8	10486.1	10014.6	9598.0	9208.4	9231.1	9041.2	9131.8	10259.5	10571.4	10046.9
57.5°	11330.0	11325.8	11200.6	10802.4	10123.5	10076.0	9724.3	9800.9	10868.2	10976.1	10261.6
60°	11972.1	12148.0	12283.0	12104.9	11775.7	11624.7	10640.4	10498.0	11423.9	11341.9	10384.7
62.5°	12403.8	12457.7	12966.1	13116.1	13559.6	13530.5	12471.8	11341.9	11897.7	11579.3	10424.6
65°	12006.7	12051.0	12822.6	13544.5	14862.1	14922.5	14481.2	12735.1	12271.1	11661.3	10342.6
67.5°	10775.4	10807.7	11714.2	13208.9	15586.3	15666.1	15151.4	14188.8	12460.0	11647.3	10063.1
68°	10475.3	10498.0	11439.1	13067.5	15640.2	15683.3	15184.8	14309.6	12475.0	11631.1	9972.5
70°	9188.0	9183.6	10072.9	12227.9	15465.3	15478.4	14991.6	14441.2	12415.7	11477.9	9394.0
72.5°	7104.1	7242.2	7983.6	10299.5	14501.7	14605.3	14351.7	14077.6	12163.2	10858.5	8009.5
75°	5054.8	5162.7	5924.5	8032.1	12518.2	12845.1	13295.2	13395.5	11245.9	9332.5	5900.8
77.5°	3526.7	3641.1	4353.3	5999.0	10119.3	10546.5	11496.2	11645.1	9458.8	7074.9	3010.9
80°	2256.5	2365.5	3019.4	4363.0	7640.4	8005.2	9043.3	8828.5	6619.5	3790.0	527.7
82.5°	1371.6	1426.6	1920.9	2983.8	5568.4	5907.2	6252.7	5301.9	3168.4	536.3	169.5
85°	779.1	818.0	1178.4	1927.3	3933.5	4129.9	4207.6	2646.0	659.4	144.6	97.1
87.5°	207.2	288.2	636.7	1188.1	1979.2	1928.5	2078.5	947.6	118.7	62.6	46.4
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°	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5	2528.5
2.5°	2509.0	2506.9	2499.4	2496.1	2499.4	2496.1	2472.3	2474.5	2474.5	2462.7	2455.0
5°	2514.4	2509.0	2485.3	2481.0	2468.0	2447.5	2408.6	2400.0	2392.5	2373.0	2369.8
7.5°	2529.6	2522.0	2484.2	2466.9	2431.3	2394.6	2341.7	2310.5	2295.3	2271.6	2274.9
10°	2573.8	2557.6	2503.6	2470.2	2403.3	2342.8	2266.3	2218.8	2190.7	2155.1	2167.0
12.5°	2653.7	2628.9	2561.9	2503.6	2401.1	2311.5	2202.6	2115.1	2070.9	2029.9	2041.8
15°	2762.6	2735.7	2653.7	2565.2	2429.2	2298.6	2148.6	2010.4	1930.6	1877.7	1881.0
17.5°	2884.6	2860.9	2767.0	2649.3	2472.3	2290.0	2087.0	1901.5	1755.8	1680.3	1678.0
20°	3014.0	3000.0	2897.6	2738.9	2516.6	2270.5	2008.3	1762.3	1561.6	1434.2	1423.4
22.5°	3163.0	3156.5	3036.7	2827.4	2537.1	2226.3	1902.5	1589.6	1323.1	1150.4	1139.6
25°	3358.3	3348.6	3174.8	2888.9	2528.5	2151.8	1754.7	1382.4	1020.9	822.3	813.7
27.5°	3593.6	3545.0	3296.8	2920.2	2486.4	2034.2	1561.6	1074.8	686.4	506.1	501.8
30°	3857.9	3763.0	3403.7	2923.4	2408.6	1870.2	1277.7	695.0	399.3	284.9	282.8
32.5°	4201.1	4033.9	3519.1	2905.1	2290.0	1649.0	913.0	398.2	200.7	153.3	153.3
35°	4876.7	4512.0	3666.9	2857.6	2124.9	1332.7	563.3	193.2	117.6	115.4	116.6
37.5°	5880.3	5285.7	3908.7	2781.0	1904.7	960.5	289.2	107.9	107.9	112.2	113.3
40°	6766.3	6095.1	4257.3	2673.1	1612.2	607.5	138.1	101.4	107.9	109.0	111.2
42.5°	7467.7	6744.7	4625.3	2510.2	1269.1	323.8	115.4	98.3	100.4	99.3	103.6
45°	8029.0	7257.3	4909.0	2296.5	895.7	166.2	119.8	95.0	87.4	87.4	89.6
47.5°	8466.0	7646.9	5087.1	2064.5	545.0	133.9	119.8	84.2	78.8	79.8	81.0
50°	8850.2	7938.2	5148.7	1778.4	274.1	136.0	115.4	79.8	70.2	71.2	73.3
52.5°	9126.4	8143.3	5102.3	1423.4	151.0	138.1	110.1	73.3	60.4	65.8	67.9
55°	9334.6	8240.4	4949.0	1012.2	137.0	136.0	106.8	65.8	53.9	64.8	67.9
57.5°	9452.3	8272.8	4688.9	659.4	150.0	119.8	98.3	60.4	50.8	63.7	67.9
60°	9500.8	8213.5	4313.4	386.3	153.3	105.8	91.7	56.1	46.4	52.9	55.0
62.5°	9450.2	8061.3	3760.8	243.9	140.3	100.4	87.4	52.9	38.9	37.7	36.7
65°	9248.4	7684.7	2847.8	195.3	130.6	100.4	82.0	46.4	30.2	22.7	20.5
67.5°	8766.0	6907.7	1611.2	193.2	127.3	98.3	74.5	42.1	23.7	11.9	9.8
68°	8620.3	6684.3	1357.6	196.4	130.6	98.3	73.3	40.0	22.7	9.8	7.5
70°	7732.2	5478.8	468.4	188.9	148.9	103.6	70.2	34.6	18.3	4.3	3.3
72.5°	5887.9	3365.9	207.2	152.2	164.1	107.9	70.2	33.5	15.2	1.1	0.0
75°	3423.1	828.8	177.0	102.5	137.0	128.5	81.0	38.9	14.0	0.0	0.0
77.5°	829.9	191.0	154.3	59.4	107.9	140.3	96.0	43.1	15.2	0.0	0.0
80°	197.5	148.9	150.0	37.7	86.4	125.2	83.1	46.4	21.6	0.0	0.0
82.5°	130.6	117.6	133.9	20.5	49.6	92.8	58.3	29.1	27.0	0.0	0.0
85°	88.5	107.9	76.6	11.9	19.4	31.3	23.7	4.3	5.4	0.0	0.0
87.5°	49.6	31.3	12.9	5.4	4.3	3.3	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)