

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-BZ-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-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K 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: 24106 lumens
Efficiency: N/A
Efficacy: 137.0 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

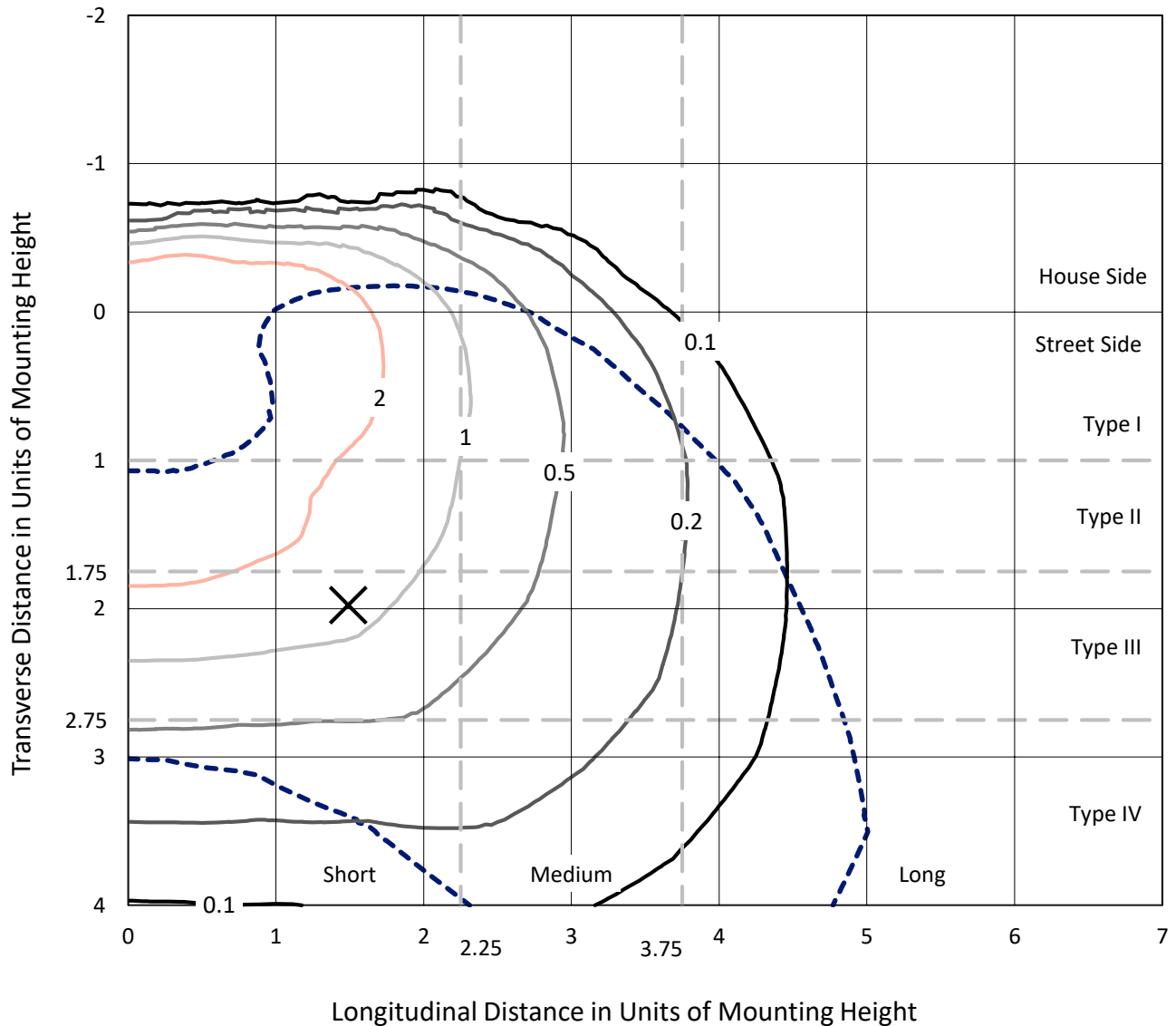


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

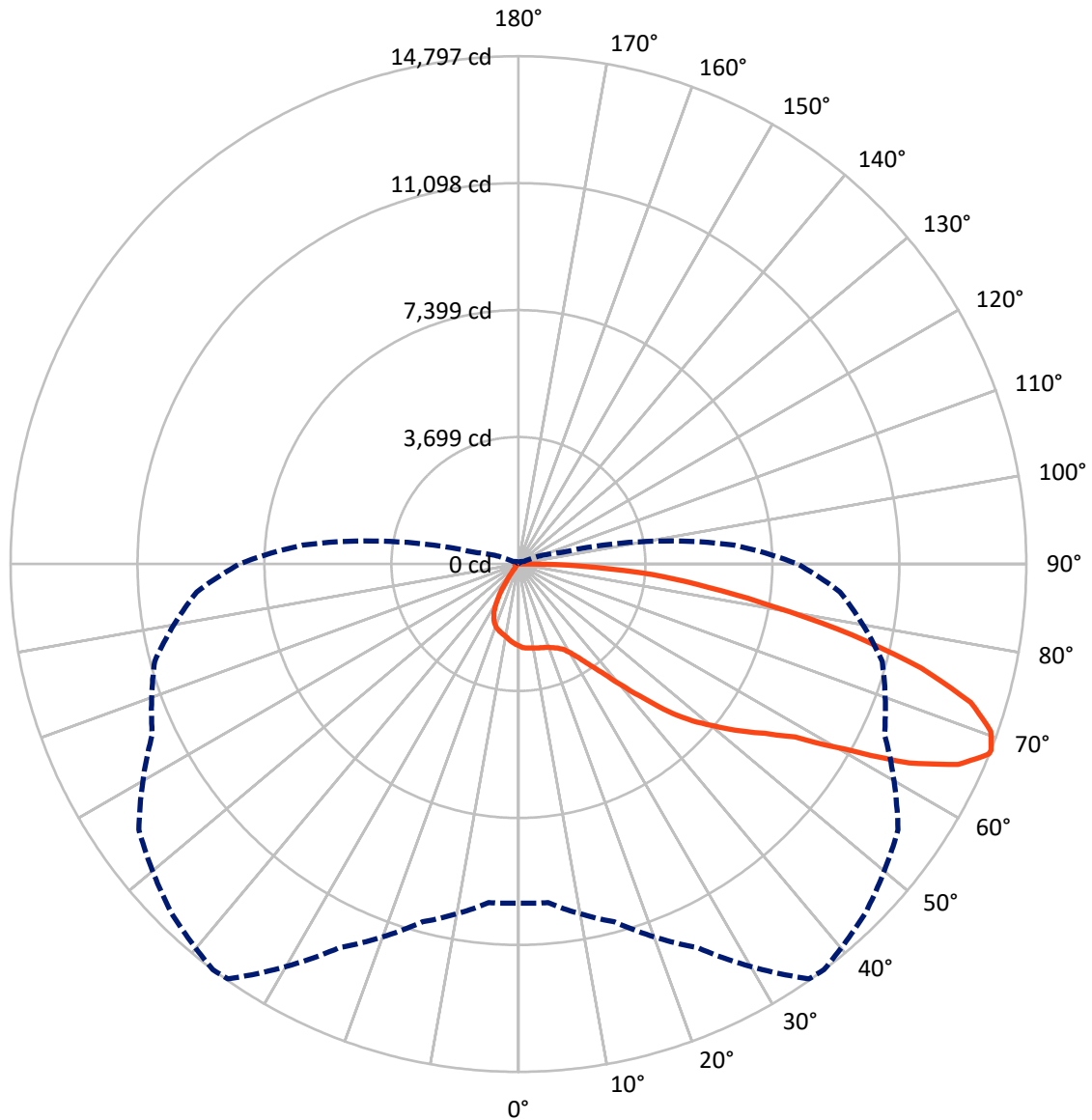


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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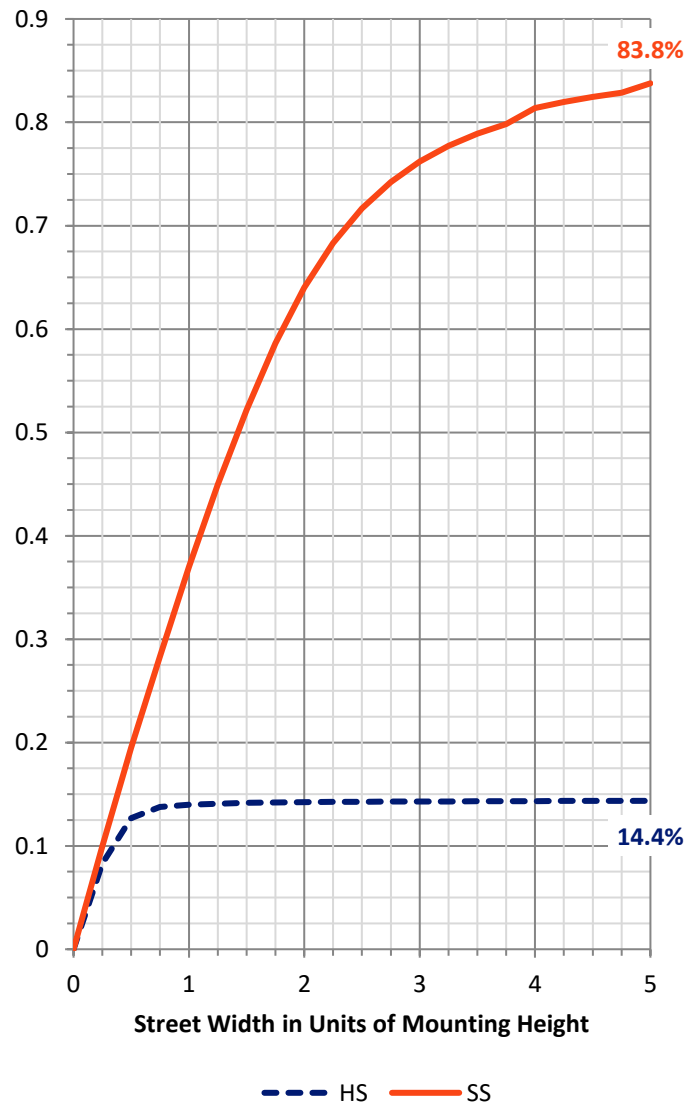
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.5	0.0	3501.5
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	20604.5	0.0	20604.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	24106.0	0.0	24106.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	0.9
10°-20°	668.8	2.8
20°-30°	1117.7	4.6
30°-40°	1815.4	7.5
40°-50°	3279.7	13.6
50°-60°	4885.3	20.3
60°-70°	6364.0	26.4
70°-80°	4685.5	19.4
80°-90°	1064.3	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°	24106.0	100.0
0°-180°	24106.0	100.0



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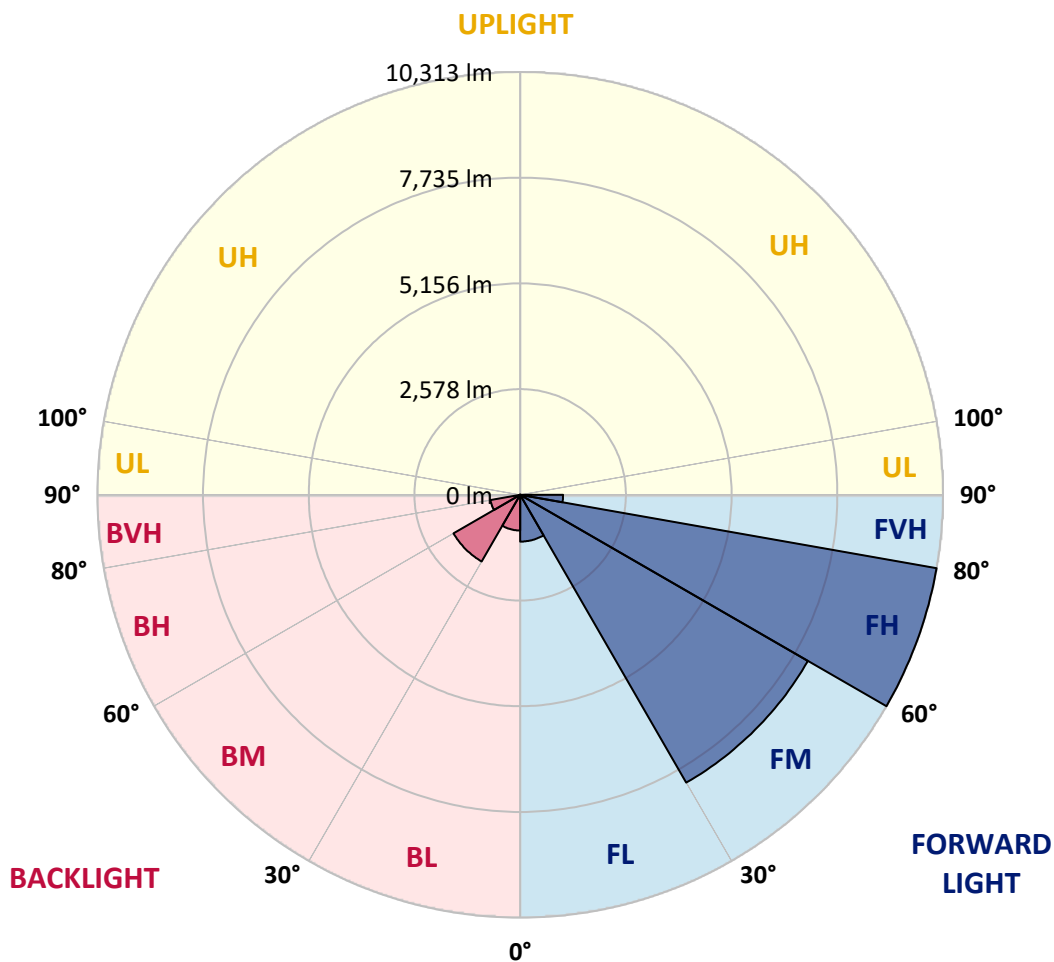
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.0	4.7			
FM	(30°-60°)	8104.0	33.6			
FH	(60°-80°)	10312.7	42.8			G4/12000
FVH	(80°-90°)	1046.8	4.3			G5
BL	(0°-30°)	870.8	3.6	B2/1000		
BM	(30°-60°)	1876.4	7.8	B2/2500		
BH	(60°-80°)	736.8	3.1	B2/1000		G2/1000
BVH	(80°-90°)	17.5	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°	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6
2.5°	2437.5	2439.5	2439.5	2436.5	2440.5	2437.5	2430.4	2423.2	2415.1	2382.5	2375.4
5°	2448.7	2453.8	2453.8	2452.8	2458.9	2457.9	2451.7	2445.6	2436.5	2397.8	2384.5
7.5°	2454.8	2459.9	2460.9	2458.9	2471.1	2473.1	2469.1	2469.1	2461.9	2423.2	2403.9
10°	2453.8	2454.8	2457.9	2462.9	2482.3	2487.4	2492.5	2500.6	2500.6	2469.1	2446.7
12.5°	2427.3	2428.3	2438.5	2461.9	2500.6	2508.8	2524.0	2546.4	2557.6	2540.3	2521.0
15°	2409.0	2409.0	2423.2	2459.9	2518.9	2530.1	2562.7	2597.3	2629.9	2627.9	2623.8
17.5°	2425.3	2428.3	2450.7	2482.3	2542.4	2554.6	2597.3	2653.3	2705.3	2727.7	2731.7
20°	2474.1	2477.2	2501.6	2534.2	2586.1	2595.3	2637.1	2704.3	2781.6	2830.5	2859.0
22.5°	2546.4	2548.5	2567.8	2592.3	2643.2	2649.3	2690.0	2762.3	2860.0	2943.5	2993.4
25°	2614.7	2618.7	2636.0	2654.4	2711.4	2716.5	2766.4	2842.7	2956.8	3068.8	3160.4
27.5°	2683.9	2691.0	2712.4	2737.9	2820.3	2822.4	2868.2	2943.5	3078.9	3231.7	3368.1
30°	2837.6	2829.5	2847.8	2881.4	2997.5	3004.6	3050.4	3134.9	3261.2	3433.3	3630.8
32.5°	3099.3	3090.1	3089.1	3139.0	3245.9	3280.5	3330.4	3463.8	3621.6	3792.7	3999.4
35°	3616.5	3602.3	3534.1	3517.8	3580.9	3629.8	3729.5	3925.0	4190.8	4564.4	4799.6
37.5°	4475.9	4457.5	4307.9	4131.7	4041.1	4071.6	4155.1	4426.0	4871.9	5663.0	5896.2
40°	5325.0	5329.1	5147.9	4854.6	4657.1	4663.2	4629.6	4942.2	5606.0	6688.3	6783.0
42.5°	6136.5	6129.4	5907.4	5639.6	5387.1	5337.2	5212.0	5482.8	6293.3	7515.1	7474.4
45°	6856.3	6842.1	6594.7	6445.0	6168.1	6141.6	5941.0	6031.6	6986.7	8172.8	8033.3
47.5°	7543.6	7531.4	7238.1	7096.6	6873.6	6827.8	6639.5	6685.3	7630.1	8690.1	8483.4
50°	8259.4	8283.8	7857.2	7694.3	7489.6	7429.6	7334.9	7362.4	8294.0	9176.7	8867.2
52.5°	9128.9	9005.7	8553.6	8252.2	8088.3	8076.1	7954.9	8013.0	9024.0	9604.4	9209.3
55°	10056.4	9893.5	9448.6	9055.6	8688.0	8709.4	8530.2	8615.7	9679.7	9974.0	9479.1
57.5°	10689.7	10685.7	10567.6	10191.9	9551.4	9506.6	9174.7	9247.0	10254.0	10355.8	9681.7
60°	11295.5	11461.5	11588.8	11420.8	11110.2	10967.7	10039.1	9904.7	10778.3	10700.9	9797.8
62.5°	11702.8	11753.7	12233.3	12374.8	12793.3	12765.8	11767.0	10700.9	11225.3	10924.9	9835.5
65°	11328.1	11369.9	12097.9	12779.0	14022.2	14079.2	13662.8	12015.4	11577.6	11002.3	9758.1
67.5°	10166.4	10196.9	11052.2	12462.4	14705.4	14780.7	14295.1	13386.9	11755.8	10989.1	9494.4
68°	9883.3	9904.7	10792.6	12329.0	14756.3	14797.0	14326.6	13500.9	11770.0	10973.8	9408.9
70°	8668.7	8664.6	9503.6	11536.8	14591.3	14603.6	14144.4	13625.1	11714.0	10829.2	8863.1
72.5°	6702.6	6832.9	7532.4	9717.4	13682.1	13779.9	13540.6	13282.0	11475.8	10244.8	7556.8
75°	4769.1	4870.9	5589.7	7578.2	11810.7	12119.2	12543.8	12638.5	10610.3	8805.1	5567.3
77.5°	3327.4	3435.3	4107.3	5660.0	9547.4	9950.5	10846.5	10987.0	8924.2	6675.1	2840.7
80°	2129.0	2231.8	2848.8	4116.4	7208.6	7552.8	8532.2	8329.6	6245.4	3575.8	497.9
82.5°	1294.1	1346.0	1812.3	2815.2	5253.7	5573.4	5899.3	5002.3	2989.3	506.0	159.9
85°	735.1	771.8	1111.8	1818.4	3711.2	3896.5	3969.8	2496.5	622.1	136.4	91.6
87.5°	195.5	271.9	600.7	1121.0	1867.3	1819.5	1961.0	894.0	112.0	59.1	43.8
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°	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6
2.5°	2367.2	2365.2	2358.1	2355.0	2358.1	2355.0	2332.6	2334.7	2334.7	2323.5	2316.3
5°	2372.3	2367.2	2344.8	2340.8	2328.5	2309.2	2272.5	2264.4	2257.3	2238.9	2235.9
7.5°	2386.6	2379.5	2343.8	2327.5	2293.9	2259.3	2209.4	2179.9	2165.6	2143.2	2146.3
10°	2428.3	2413.1	2362.1	2330.6	2267.5	2210.4	2138.2	2093.4	2066.9	2033.3	2044.5
12.5°	2503.7	2480.3	2417.1	2362.1	2265.4	2180.9	2078.1	1995.6	1953.9	1915.2	1926.4
15°	2606.5	2581.1	2503.7	2420.2	2291.9	2168.7	2027.2	1896.8	1821.5	1771.6	1774.7
17.5°	2721.6	2699.2	2610.6	2499.6	2332.6	2160.6	1969.1	1794.0	1656.6	1585.3	1583.2
20°	2843.7	2830.5	2733.8	2584.1	2374.4	2142.2	1894.8	1662.7	1473.3	1353.1	1343.0
22.5°	2984.2	2978.1	2865.1	2667.6	2393.7	2100.5	1795.0	1499.8	1248.3	1085.4	1075.2
25°	3168.5	3159.4	2995.4	2725.6	2385.6	2030.2	1655.5	1304.3	963.2	775.8	767.7
27.5°	3390.5	3344.7	3110.5	2755.2	2345.9	1919.2	1473.3	1014.1	647.6	477.5	473.4
30°	3639.9	3550.3	3211.3	2758.2	2272.5	1764.5	1205.5	655.7	376.7	268.8	266.8
32.5°	3963.7	3805.9	3320.2	2740.9	2160.6	1555.8	861.4	375.7	189.4	144.6	144.6
35°	4601.1	4257.0	3459.7	2696.1	2004.8	1257.4	531.5	182.3	111.0	108.9	110.0
37.5°	5548.0	4987.0	3687.8	2623.8	1797.1	906.2	272.9	101.8	101.8	105.9	106.9
40°	6383.9	5750.6	4016.7	2522.0	1521.1	573.2	130.3	95.7	101.8	102.8	104.9
42.5°	7045.7	6363.5	4363.9	2368.3	1197.4	305.5	108.9	92.7	94.7	93.7	97.7
45°	7575.2	6847.2	4631.6	2166.7	845.1	156.8	113.0	89.6	82.5	82.5	84.5
47.5°	7987.5	7214.7	4799.6	1947.8	514.2	126.3	113.0	79.4	74.3	75.3	76.4
50°	8350.0	7489.6	4857.7	1677.9	258.6	128.3	108.9	75.3	66.2	67.2	69.2
52.5°	8610.6	7683.1	4813.9	1343.0	142.5	130.3	103.9	69.2	57.0	62.1	64.1
55°	8807.1	7774.7	4669.3	955.0	129.3	128.3	100.8	62.1	50.9	61.1	64.1
57.5°	8918.1	7805.3	4423.9	622.1	141.5	113.0	92.7	57.0	47.9	60.1	64.1
60°	8963.9	7749.3	4069.6	364.5	144.6	99.8	86.5	52.9	43.8	49.9	51.9
62.5°	8916.1	7605.7	3548.3	230.1	132.4	94.7	82.5	49.9	36.7	35.6	34.6
65°	8725.7	7250.4	2686.9	184.3	123.2	94.7	77.4	43.8	28.5	21.4	19.3
67.5°	8270.6	6517.3	1520.1	182.3	120.1	92.7	70.3	39.7	22.4	11.2	9.2
68°	8133.1	6306.5	1280.9	185.3	123.2	92.7	69.2	37.7	21.4	9.2	7.1
70°	7295.2	5169.2	441.9	178.2	140.5	97.7	66.2	32.6	17.3	4.1	3.1
72.5°	5555.1	3175.7	195.5	143.6	154.8	101.8	66.2	31.6	14.3	1.0	0.0
75°	3229.6	782.0	167.0	96.7	129.3	121.2	76.4	36.7	13.2	0.0	0.0
77.5°	783.0	180.2	145.6	56.0	101.8	132.4	90.6	40.7	14.3	0.0	0.0
80°	186.3	140.5	141.5	35.6	81.5	118.1	78.4	43.8	20.4	0.0	0.0
82.5°	123.2	111.0	126.3	19.3	46.8	87.6	55.0	27.5	25.5	0.0	0.0
85°	83.5	101.8	72.3	11.2	18.3	29.5	22.4	4.1	5.1	0.0	0.0
87.5°	46.8	29.5	12.2	5.1	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)