

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-BZ-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-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: 23246 lumens
Efficiency: N/A
Efficacy: 132.1 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

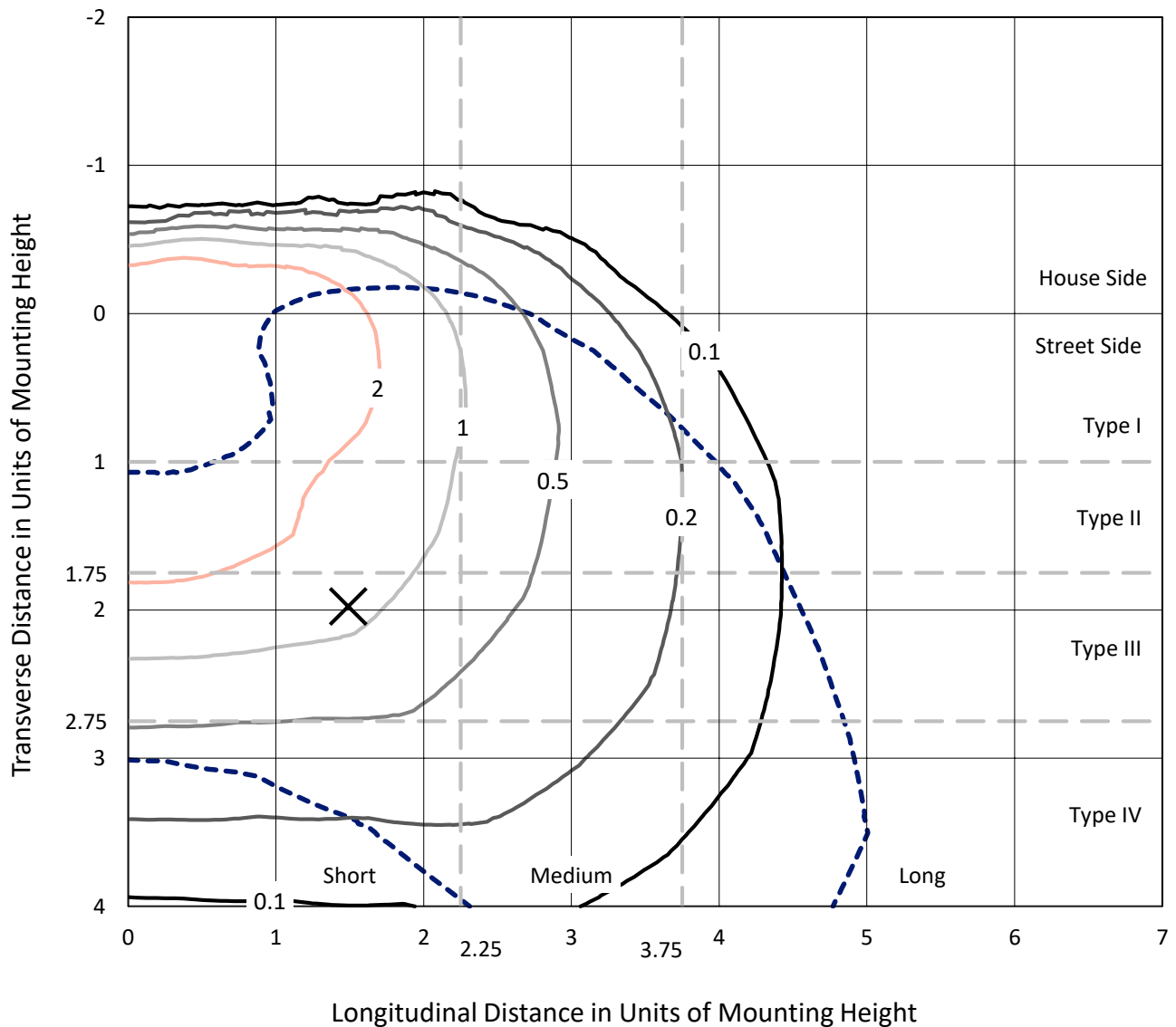
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

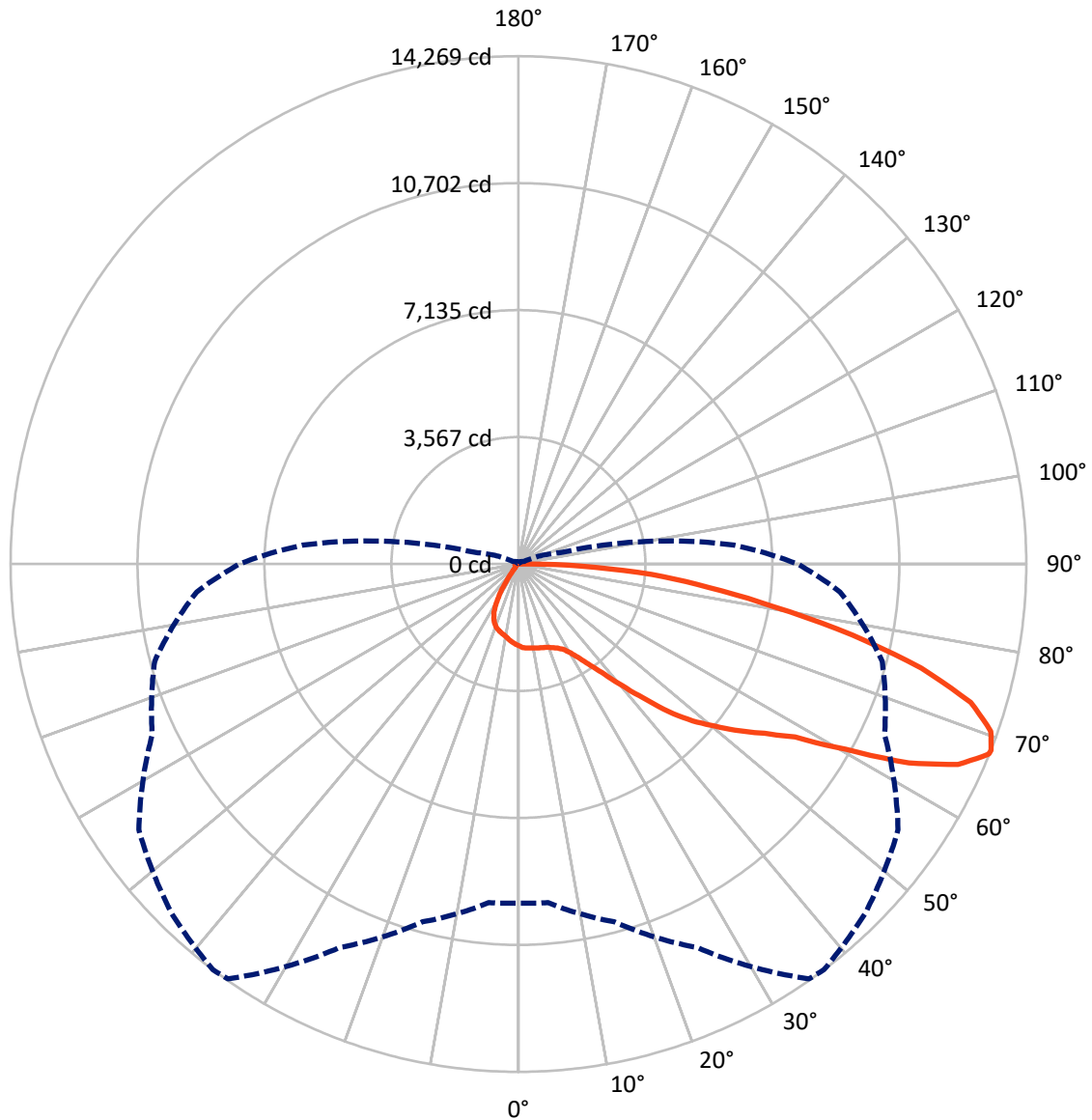


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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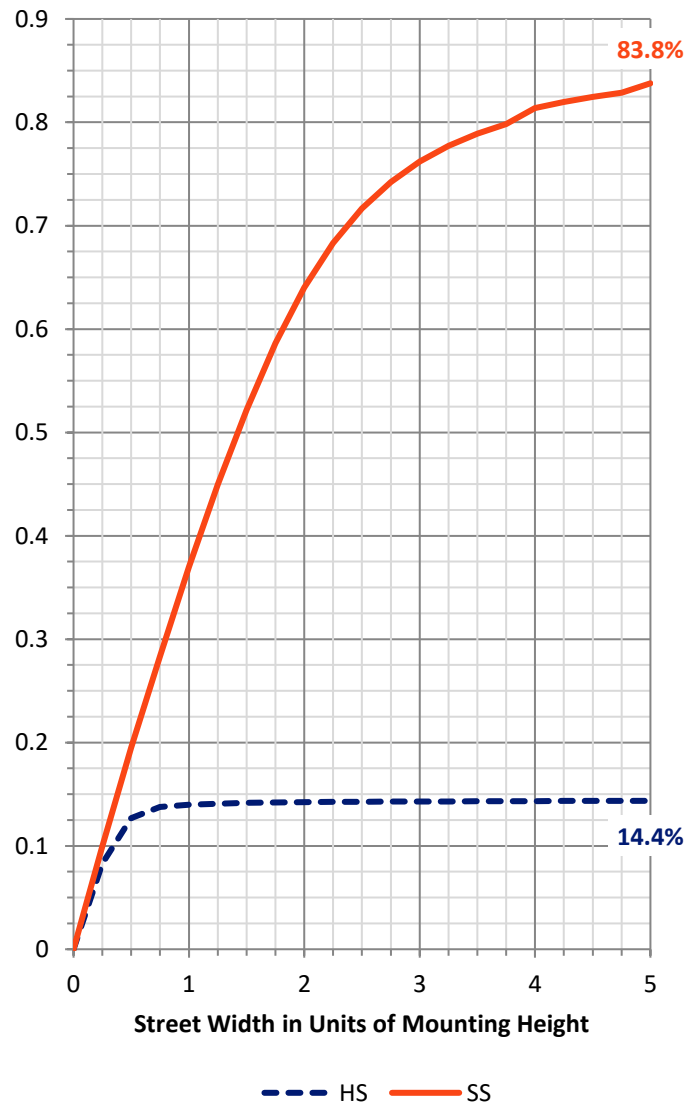
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3376.6	0.0	3376.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	19869.4	0.0	19869.4
	% Fixture	85.5	0.0	85.5
Total	Lumens	23246.0	0.0	23246.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	0.9
10°-20°	645.0	2.8
20°-30°	1077.8	4.6
30°-40°	1750.6	7.5
40°-50°	3162.7	13.6
50°-60°	4711.1	20.3
60°-70°	6137.0	26.4
70°-80°	4518.3	19.4
80°-90°	1026.3	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°	23246.0	100.0
0°-180°	23246.0	100.0



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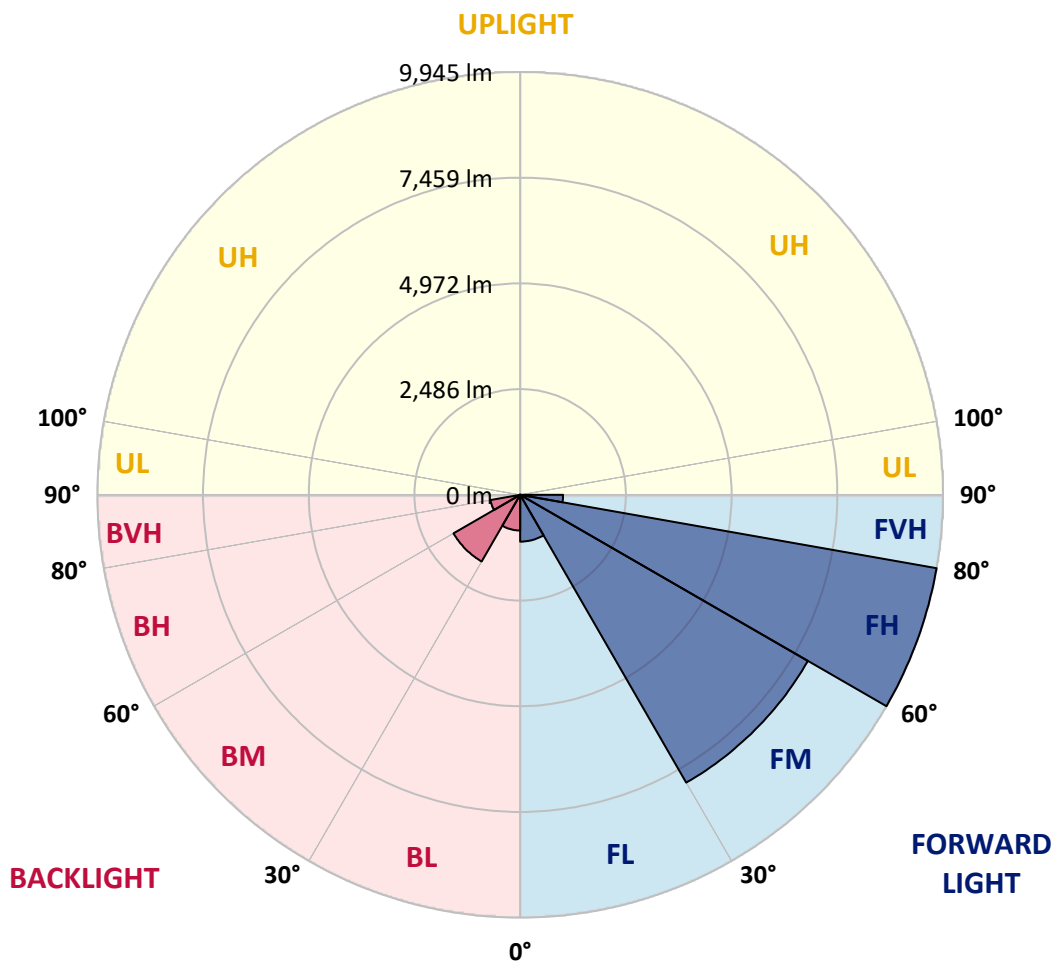
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1100.3	4.7			
FM	(30°-60°)	7814.9	33.6			
FH	(60°-80°)	9944.8	42.8			G4/12000
FVH	(80°-90°)	1009.5	4.3			G5
BL	(0°-30°)	839.8	3.6	B2/1000		
BM	(30°-60°)	1809.5	7.8	B2/2500		
BH	(60°-80°)	710.5	3.1	B2/1000		G2/1000
BVH	(80°-90°)	16.8	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°	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5
2.5°	2350.5	2352.5	2352.5	2349.6	2353.5	2350.5	2343.7	2336.8	2328.9	2297.5	2290.6
5°	2361.3	2366.2	2366.2	2365.3	2371.2	2370.2	2364.3	2358.4	2349.6	2312.2	2299.5
7.5°	2367.2	2372.1	2373.1	2371.2	2382.9	2384.9	2381.0	2381.0	2374.1	2336.8	2318.1
10°	2366.2	2367.2	2370.2	2375.1	2393.7	2398.6	2403.6	2411.4	2411.4	2381.0	2359.4
12.5°	2340.7	2341.7	2351.5	2374.1	2411.4	2419.3	2434.0	2455.6	2466.4	2449.7	2431.0
15°	2323.0	2323.0	2336.8	2372.1	2429.1	2439.9	2471.3	2504.7	2536.1	2534.1	2530.2
17.5°	2338.8	2341.7	2363.3	2393.7	2451.7	2463.4	2504.7	2558.7	2608.8	2630.4	2634.3
20°	2385.9	2388.8	2412.4	2443.8	2493.9	2502.7	2543.0	2607.8	2682.4	2729.5	2757.0
22.5°	2455.6	2457.6	2476.2	2499.8	2548.9	2554.8	2594.0	2663.7	2758.0	2838.5	2886.6
25°	2521.4	2525.3	2542.0	2559.7	2614.6	2619.6	2667.7	2741.3	2851.3	2959.3	3047.6
27.5°	2588.1	2595.0	2615.6	2640.2	2719.7	2721.7	2765.9	2838.5	2969.1	3116.4	3247.9
30°	2736.4	2728.5	2746.2	2778.6	2890.5	2897.4	2941.6	3023.1	3144.8	3310.8	3501.3
32.5°	2988.7	2979.9	2978.9	3027.0	3130.1	3163.5	3211.6	3340.2	3492.4	3657.4	3856.7
35°	3487.5	3473.8	3408.0	3392.3	3453.1	3500.3	3596.5	3785.0	4041.3	4401.6	4628.4
37.5°	4316.2	4298.5	4154.2	3984.3	3896.9	3926.4	4006.9	4268.1	4698.1	5461.0	5685.9
40°	5135.0	5139.0	4964.2	4681.4	4490.9	4496.8	4464.4	4765.9	5406.0	6449.7	6541.0
42.5°	5917.6	5910.7	5696.7	5438.4	5194.9	5146.8	5026.1	5287.2	6068.8	7247.0	7207.7
45°	6611.7	6598.0	6359.4	6215.1	5948.0	5922.5	5729.1	5816.4	6737.4	7881.3	7746.7
47.5°	7274.5	7262.7	6979.9	6843.4	6628.4	6584.2	6402.6	6446.8	7357.9	8380.0	8180.7
50°	7964.7	7988.3	7576.9	7419.8	7222.4	7164.5	7073.2	7099.7	7998.1	8849.4	8550.9
52.5°	8803.2	8684.4	8248.5	7957.8	7799.8	7788.0	7671.1	7727.1	8702.1	9261.7	8880.8
55°	9697.7	9540.6	9111.5	8732.5	8378.1	8398.7	8225.9	8308.4	9334.4	9618.1	9141.0
57.5°	10308.4	10304.4	10190.5	9828.2	9210.7	9167.5	8847.4	8917.1	9888.1	9986.3	9336.3
60°	10892.6	11052.6	11175.3	11013.3	10713.9	10576.4	9681.0	9551.4	10393.8	10319.2	9448.3
62.5°	11285.3	11334.4	11796.8	11933.3	12336.9	12310.3	11347.2	10319.2	10824.8	10535.2	9484.6
65°	10924.0	10964.2	11666.3	12323.1	13521.9	13576.9	13175.4	11586.7	11164.5	10609.8	9410.0
67.5°	9803.7	9833.2	10657.9	12017.8	14180.8	14253.4	13785.1	12909.3	11336.4	10597.0	9155.7
68°	9530.7	9551.4	10407.5	11889.1	14229.9	14269.1	13815.5	13019.2	11350.1	10582.3	9073.2
70°	8359.4	8355.5	9164.5	11125.3	14070.8	14082.6	13639.8	13139.0	11296.1	10442.9	8546.9
72.5°	6463.5	6589.1	7263.7	9370.7	13194.0	13288.3	13057.5	12808.1	11066.4	9879.3	7287.2
75°	4599.0	4697.1	5390.3	7307.9	11389.4	11686.9	12096.3	12187.6	10231.8	8491.0	5368.7
77.5°	3208.7	3312.7	3960.8	5458.1	9206.7	9595.6	10459.6	10595.1	8605.9	6437.0	2739.3
80°	2053.0	2152.2	2747.2	3969.6	6951.4	7283.3	8227.8	8032.5	6022.6	3448.2	480.1
82.5°	1247.9	1298.0	1747.7	2714.8	5066.3	5374.6	5688.8	4823.8	2882.7	488.0	154.1
85°	708.9	744.2	1072.2	1753.6	3578.8	3757.5	3828.2	2407.5	599.9	131.6	88.4
87.5°	188.5	262.2	579.3	1081.0	1800.7	1754.6	1891.0	862.1	108.0	56.9	42.2
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°	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5	2300.5
2.5°	2282.8	2280.8	2273.9	2271.0	2273.9	2271.0	2249.4	2251.4	2251.4	2240.6	2233.7
5°	2287.7	2282.8	2261.2	2257.3	2245.5	2226.8	2191.5	2183.6	2176.7	2159.1	2156.1
7.5°	2301.4	2294.6	2260.2	2244.5	2212.1	2178.7	2130.6	2102.1	2088.4	2066.8	2069.7
10°	2341.7	2327.0	2277.9	2247.4	2186.6	2131.6	2061.9	2018.7	1993.1	1960.7	1971.5
12.5°	2414.4	2391.8	2330.9	2277.9	2184.6	2103.1	2003.9	1924.4	1884.2	1846.8	1857.6
15°	2513.5	2489.0	2414.4	2333.8	2210.1	2091.3	1954.8	1829.2	1756.5	1708.4	1711.4
17.5°	2624.5	2602.9	2517.4	2410.4	2249.4	2083.5	1898.9	1730.0	1597.5	1528.7	1526.8
20°	2742.3	2729.5	2636.2	2491.9	2289.7	2065.8	1827.2	1603.3	1420.7	1304.9	1295.1
22.5°	2877.8	2871.9	2762.9	2572.4	2308.3	2025.5	1731.0	1446.3	1203.7	1046.6	1036.8
25°	3055.5	3046.7	2888.6	2628.4	2300.5	1957.8	1596.5	1257.7	928.8	748.2	740.3
27.5°	3269.5	3225.4	2999.5	2656.9	2262.2	1850.8	1420.7	977.9	624.5	460.5	456.6
30°	3510.1	3423.7	3096.7	2659.8	2191.5	1701.5	1162.5	632.3	363.3	259.2	257.2
32.5°	3822.3	3670.1	3201.8	2643.1	2083.5	1500.3	830.6	362.3	182.6	139.4	139.4
35°	4436.9	4105.1	3336.3	2599.9	1933.2	1212.6	512.5	175.7	107.0	105.1	106.0
37.5°	5350.1	4809.1	3556.2	2530.2	1733.0	873.8	263.1	98.2	98.2	102.1	103.1
40°	6156.2	5545.4	3873.4	2432.0	1466.9	552.8	125.7	92.3	98.2	99.2	101.1
42.5°	6794.4	6136.5	4208.2	2283.8	1154.6	294.6	105.1	89.3	91.3	90.3	94.3
45°	7304.9	6602.9	4466.4	2089.4	814.9	151.2	109.0	86.4	79.5	79.5	81.5
47.5°	7702.6	6957.3	4628.4	1878.3	495.8	121.7	109.0	76.6	71.7	72.7	73.6
50°	8052.1	7222.4	4684.4	1618.1	249.4	123.7	105.1	72.7	63.8	64.8	66.8
52.5°	8303.4	7409.0	4642.2	1295.1	137.5	125.7	100.1	66.8	55.0	59.9	61.9
55°	8492.9	7497.4	4502.7	921.0	124.7	123.7	97.2	59.9	49.1	58.9	61.9
57.5°	8600.0	7526.8	4266.1	599.9	136.5	109.0	89.3	55.0	46.1	57.9	61.9
60°	8644.1	7472.8	3924.4	351.5	139.4	96.2	83.5	51.1	42.2	48.1	50.1
62.5°	8598.0	7334.4	3421.7	221.9	127.6	91.3	79.5	48.1	35.3	34.4	33.4
65°	8414.4	6991.7	2591.1	177.7	118.8	91.3	74.6	42.2	27.5	20.6	18.7
67.5°	7975.5	6284.8	1465.9	175.7	115.9	89.3	67.7	38.3	21.6	10.8	8.8
68°	7843.0	6081.5	1235.2	178.7	118.8	89.3	66.8	36.3	20.6	8.8	6.9
70°	7034.9	4984.8	426.1	171.8	135.5	94.3	63.8	31.4	16.7	3.9	2.9
72.5°	5356.9	3062.4	188.5	138.4	149.2	98.2	63.8	30.4	13.7	1.0	0.0
75°	3114.4	754.1	161.0	93.3	124.7	116.8	73.6	35.3	12.8	0.0	0.0
77.5°	755.0	173.8	140.4	54.0	98.2	127.6	87.4	39.3	13.7	0.0	0.0
80°	179.7	135.5	136.5	34.4	78.5	113.9	75.6	42.2	19.6	0.0	0.0
82.5°	118.8	107.0	121.7	18.7	45.2	84.4	53.0	26.5	24.5	0.0	0.0
85°	80.5	98.2	69.7	10.8	17.7	28.5	21.6	3.9	4.9	0.0	0.0
87.5°	45.2	28.5	11.8	4.9	3.9	2.9	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)