

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: P285847

Luminaire Tested: **USSL-XL-C04-D-U-T4-BZ-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285847
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-C04-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: 32310 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 264
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

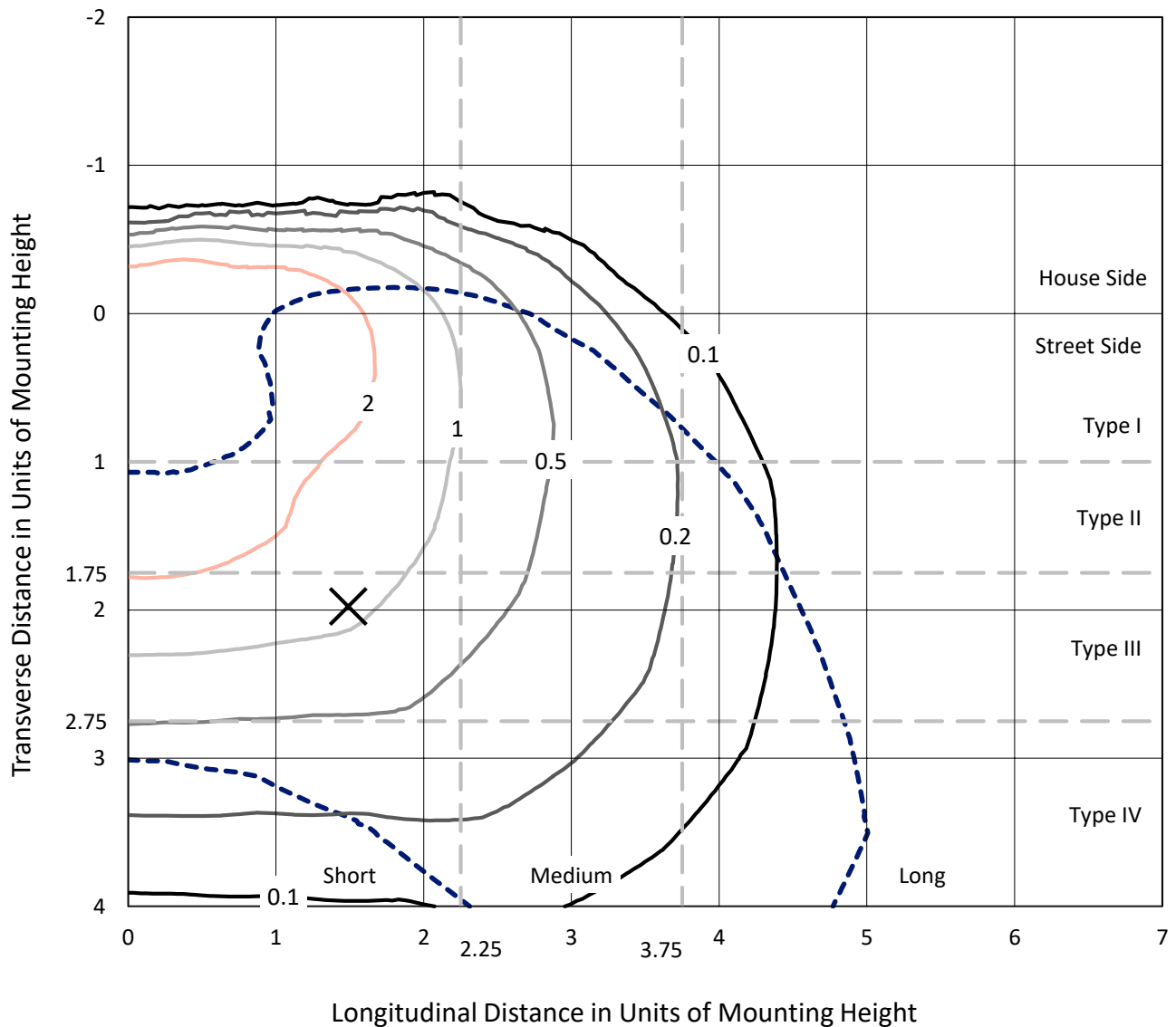


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

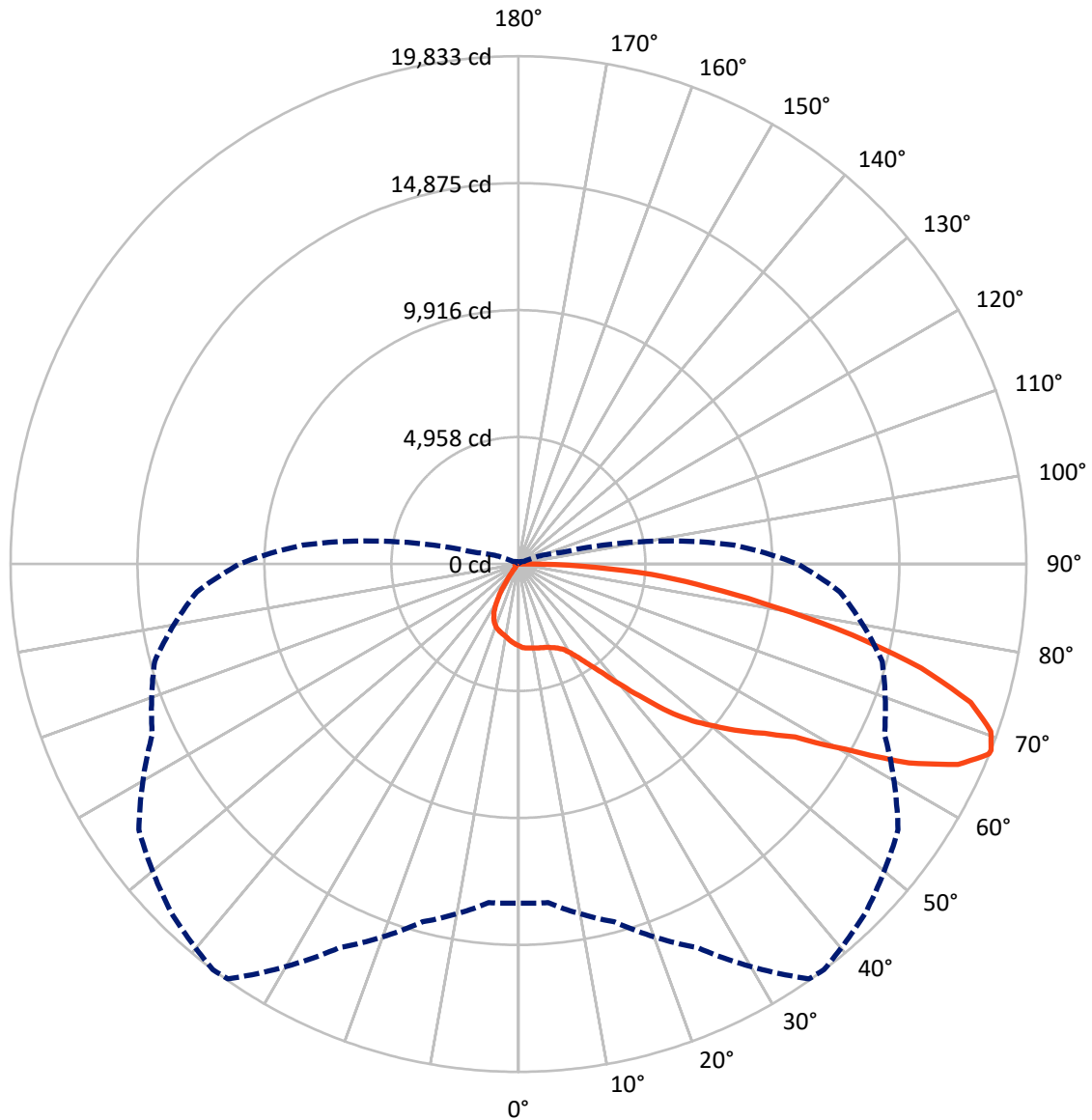


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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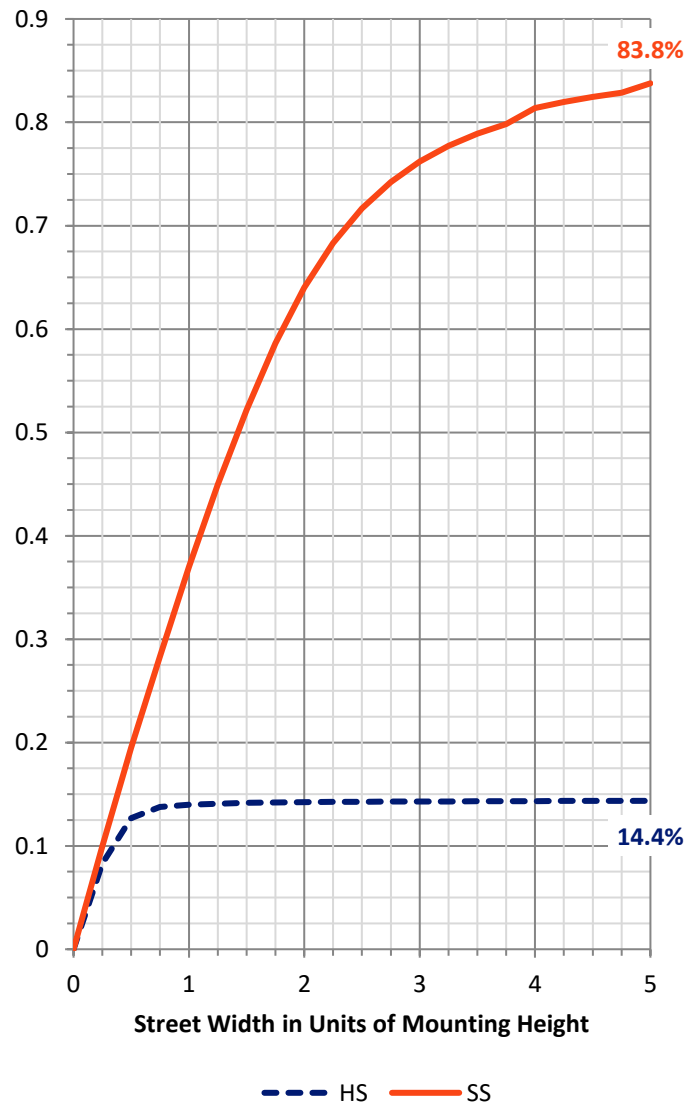
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4693.2	0.0	4693.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	27616.8	0.0	27616.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	32310.0	0.0	32310.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	0.9
10°-20°	896.5	2.8
20°-30°	1498.1	4.6
30°-40°	2433.2	7.5
40°-50°	4395.9	13.6
50°-60°	6548.0	20.3
60°-70°	8529.9	26.4
70°-80°	6280.1	19.4
80°-90°	1426.5	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°	32310.0	100.0
0°-180°	32310.0	100.0



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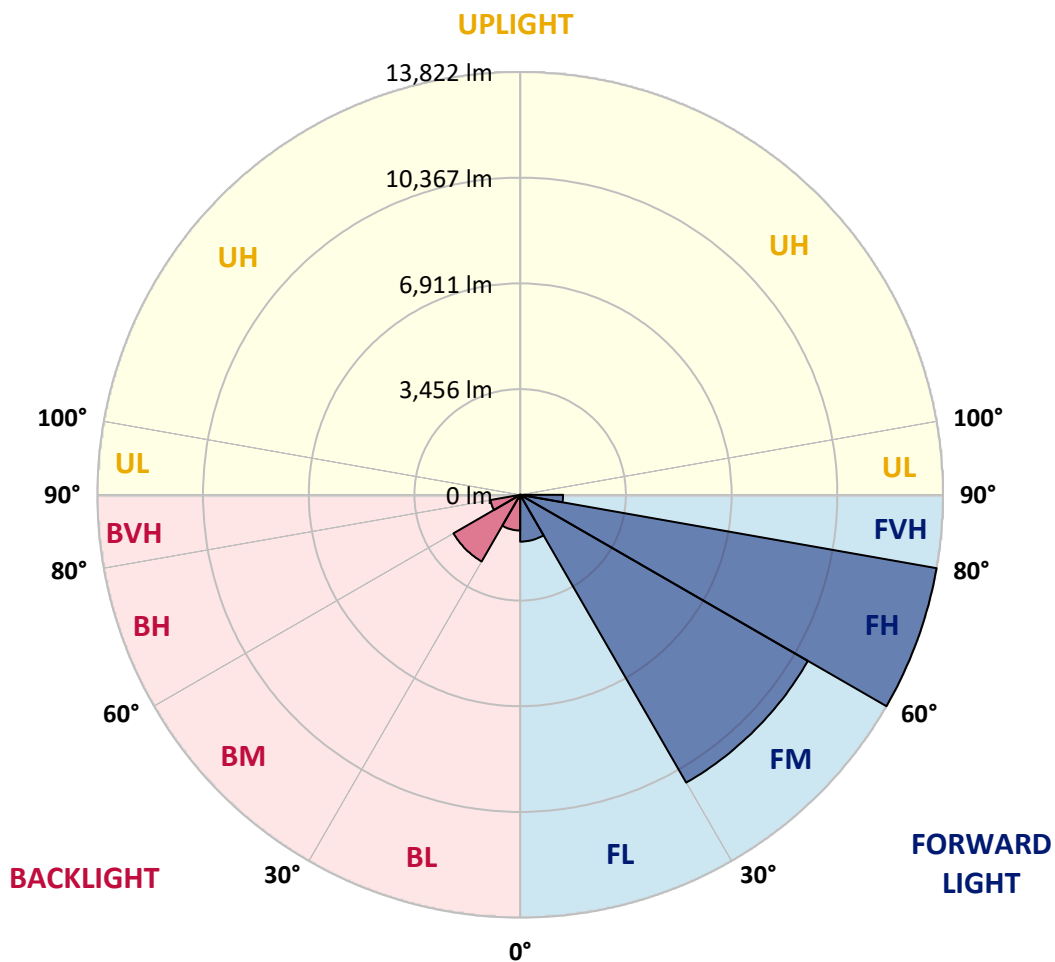
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.3	4.7			
FM	(30°-60°)	10862.0	33.6			
FH	(60°-80°)	13822.4	42.8			G5
FVH	(80°-90°)	1403.1	4.3			G5
BL	(0°-30°)	1167.2	3.6	B3/2500		
BM	(30°-60°)	2515.0	7.8	B3/5000		
BH	(60°-80°)	987.6	3.1	B2/1000		G2/1000
BVH	(80°-90°)	23.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4
2.5°	3267.0	3269.8	3269.8	3265.7	3271.1	3267.0	3257.5	3247.9	3237.0	3193.4	3183.8
5°	3282.1	3288.9	3288.9	3287.5	3295.7	3294.3	3286.1	3278.0	3265.7	3213.8	3196.1
7.5°	3290.2	3297.1	3298.4	3295.7	3312.1	3314.8	3309.3	3309.3	3299.8	3247.9	3222.0
10°	3288.9	3290.2	3294.3	3301.2	3327.1	3333.9	3340.7	3351.7	3351.7	3309.3	3279.3
12.5°	3253.4	3254.8	3268.4	3299.8	3351.7	3362.6	3383.0	3413.1	3428.1	3404.9	3378.9
15°	3228.8	3228.8	3247.9	3297.1	3376.2	3391.2	3434.9	3481.3	3525.0	3522.2	3516.8
17.5°	3250.7	3254.8	3284.8	3327.1	3407.6	3424.0	3481.3	3556.4	3626.0	3656.0	3661.4
20°	3316.2	3320.3	3353.0	3396.7	3466.3	3478.6	3534.5	3624.6	3728.3	3793.8	3832.0
22.5°	3413.1	3415.8	3441.7	3474.5	3542.7	3550.9	3605.5	3702.4	3833.4	3945.3	4012.2
25°	3504.5	3510.0	3533.2	3557.7	3634.1	3641.0	3707.8	3810.2	3963.0	4113.1	4236.0
27.5°	3597.3	3606.8	3635.5	3669.6	3780.2	3782.9	3844.3	3945.3	4126.8	4331.5	4514.4
30°	3803.4	3792.4	3817.0	3862.0	4017.6	4027.2	4088.6	4201.8	4371.1	4601.7	4866.4
32.5°	4154.1	4141.8	4140.4	4207.3	4350.6	4397.0	4463.9	4642.6	4854.2	5083.4	5360.5
35°	4847.3	4828.2	4736.8	4715.0	4799.6	4865.1	4998.8	5260.8	5617.0	6117.9	6433.1
37.5°	5999.1	5974.6	5774.0	5537.9	5416.4	5457.4	5569.3	5932.3	6530.0	7590.3	7902.9
40°	7137.3	7142.7	6899.8	6506.8	6242.0	6250.2	6205.2	6624.2	7513.9	8964.6	9091.5
42.5°	8224.9	8215.4	7917.9	7559.0	7220.5	7153.7	6985.8	7348.8	8435.1	10072.7	10018.1
45°	9189.8	9170.6	8839.0	8638.4	8267.2	8231.7	7962.9	8084.4	9364.4	10954.3	10767.3
47.5°	10110.9	10094.5	9701.5	9511.8	9213.0	9151.5	8899.1	8960.5	10226.9	11647.5	11370.5
50°	11070.3	11103.0	10531.2	10312.9	10038.6	9958.1	9831.2	9868.0	11116.7	12299.9	11885.0
52.5°	12235.7	12070.6	11464.7	11060.7	10841.0	10824.6	10662.2	10740.0	12095.2	12873.0	12343.5
55°	13478.9	13260.6	12664.2	12137.5	11644.8	11673.5	11433.3	11547.9	12974.0	13368.4	12705.2
57.5°	14327.8	14322.3	14164.0	13660.4	12802.1	12742.0	12297.1	12394.0	13743.7	13880.2	12976.7
60°	15139.8	15362.2	15532.8	15307.6	14891.4	14700.3	13455.7	13275.6	14446.5	14342.8	13132.3
62.5°	15685.6	15753.9	16396.6	16586.3	17147.2	17110.4	15771.6	14342.8	15045.6	14643.0	13182.8
65°	15183.4	15239.4	16215.1	17128.1	18794.4	18870.8	18312.6	16104.6	15517.8	14746.7	13079.1
67.5°	13626.3	13667.3	14813.6	16703.7	19710.1	19811.1	19160.1	17942.8	15756.6	14729.0	12725.6
68°	13246.9	13275.6	14465.6	16524.9	19778.3	19832.9	19202.4	18095.7	15775.7	14708.5	12611.0
70°	11618.9	11613.4	12737.9	15463.2	19557.2	19573.6	18958.1	18262.1	15700.6	14514.7	11879.5
72.5°	8983.7	9158.4	10095.9	13024.5	18338.6	18469.6	18148.9	17802.2	15381.3	13731.4	10128.7
75°	6392.2	6528.6	7492.1	10157.3	15830.3	16243.8	16812.9	16939.8	14221.3	11801.8	7462.1
77.5°	4459.8	4604.4	5505.1	7586.3	12796.6	13337.0	14537.9	14726.3	11961.4	8946.8	3807.5
80°	2853.5	2991.4	3818.4	5517.4	9661.9	10123.2	11436.0	11164.4	8370.9	4792.8	667.3
82.5°	1734.5	1804.1	2429.1	3773.3	7041.7	7470.3	7907.0	6704.7	4006.7	678.2	214.3
85°	985.3	1034.4	1490.2	2437.3	4974.3	5222.6	5320.9	3346.2	833.8	182.9	122.8
87.5°	262.0	364.4	805.2	1502.5	2502.8	2438.7	2628.4	1198.2	150.1	79.2	58.7
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°	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4	3197.4
2.5°	3172.9	3170.2	3160.6	3156.5	3160.6	3156.5	3126.5	3129.2	3129.2	3114.2	3104.6
5°	3179.7	3172.9	3142.9	3137.4	3121.0	3095.1	3046.0	3035.0	3025.5	3000.9	2996.8
7.5°	3198.8	3189.3	3141.5	3119.7	3074.6	3028.2	2961.4	2921.8	2902.7	2872.7	2876.7
10°	3254.8	3234.3	3166.1	3123.8	3039.1	2962.7	2865.8	2805.8	2770.3	2725.3	2740.3
12.5°	3355.7	3324.4	3239.7	3166.1	3036.4	2923.1	2785.3	2674.8	2618.8	2567.0	2582.0
15°	3493.6	3459.5	3355.7	3243.8	3071.9	2906.8	2717.1	2542.4	2441.4	2374.5	2378.6
17.5°	3647.8	3617.8	3499.0	3350.3	3126.5	2895.9	2639.3	2404.6	2220.3	2124.8	2122.1
20°	3811.6	3793.8	3664.2	3463.6	3182.4	2871.3	2539.7	2228.5	1974.7	1813.7	1800.0
22.5°	3999.9	3991.7	3840.2	3575.5	3208.4	2815.3	2405.9	2010.2	1673.1	1454.7	1441.1
25°	4246.9	4234.6	4014.9	3653.2	3197.4	2721.2	2219.0	1748.2	1291.0	1039.9	1029.0
27.5°	4544.4	4483.0	4169.1	3692.8	3144.2	2572.4	1974.7	1359.2	867.9	640.0	634.6
30°	4878.7	4758.6	4304.2	3696.9	3046.0	2365.0	1615.8	878.9	504.9	360.3	357.5
32.5°	5312.7	5101.2	4450.2	3673.7	2895.9	2085.2	1154.5	503.6	253.8	193.8	193.8
35°	6167.0	5705.7	4637.2	3613.7	2687.1	1685.4	712.4	244.3	148.8	146.0	147.4
37.5°	7436.1	6684.2	4942.9	3516.8	2408.7	1214.6	365.7	136.5	136.5	141.9	143.3
40°	8556.5	7707.7	5383.7	3380.3	2038.8	768.3	174.7	128.3	136.5	137.8	140.6
42.5°	9443.6	8529.2	5849.0	3174.2	1604.9	409.4	146.0	124.2	126.9	125.6	131.0
45°	10153.2	9177.5	6207.9	2904.0	1132.7	210.2	151.5	120.1	110.5	110.5	113.3
47.5°	10705.9	9670.1	6433.1	2610.6	689.2	169.2	151.5	106.4	99.6	101.0	102.4
50°	11191.7	10038.6	6510.9	2249.0	346.6	171.9	146.0	101.0	88.7	90.1	92.8
52.5°	11541.1	10297.9	6452.2	1800.0	191.1	174.7	139.2	92.8	76.4	83.2	86.0
55°	11804.5	10420.7	6258.4	1280.1	173.3	171.9	135.1	83.2	68.2	81.9	86.0
57.5°	11953.2	10461.6	5929.5	833.8	189.7	151.5	124.2	76.4	64.1	80.5	86.0
60°	12014.6	10386.6	5454.6	488.6	193.8	133.7	116.0	71.0	58.7	66.9	69.6
62.5°	11950.5	10194.2	4755.9	308.4	177.4	126.9	110.5	66.9	49.1	47.8	46.4
65°	11695.3	9717.9	3601.4	247.0	165.1	126.9	103.7	58.7	38.2	28.7	25.9
67.5°	11085.3	8735.3	2037.5	244.3	161.0	124.2	94.2	53.2	30.0	15.0	12.3
68°	10901.1	8452.8	1716.8	248.4	165.1	124.2	92.8	50.5	28.7	12.3	9.6
70°	9777.9	6928.5	592.3	238.8	188.3	131.0	88.7	43.7	23.2	5.5	4.1
72.5°	7445.7	4256.4	262.0	192.4	207.4	136.5	88.7	42.3	19.1	1.4	0.0
75°	4328.8	1048.1	223.8	129.6	173.3	162.4	102.4	49.1	17.7	0.0	0.0
77.5°	1049.4	241.5	195.1	75.1	136.5	177.4	121.5	54.6	19.1	0.0	0.0
80°	249.7	188.3	189.7	47.8	109.2	158.3	105.1	58.7	27.3	0.0	0.0
82.5°	165.1	148.8	169.2	25.9	62.8	117.4	73.7	36.8	34.1	0.0	0.0
85°	111.9	136.5	96.9	15.0	24.6	39.6	30.0	5.5	6.8	0.0	0.0
87.5°	62.8	39.6	16.4	6.8	5.5	4.1	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)