

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: P285856

Luminaire Tested: **USSL-XL-C049-D-U-T4-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285856
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-C049-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: 30383.1 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: B3 - U0 - G5

Input Watts (W): 217
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

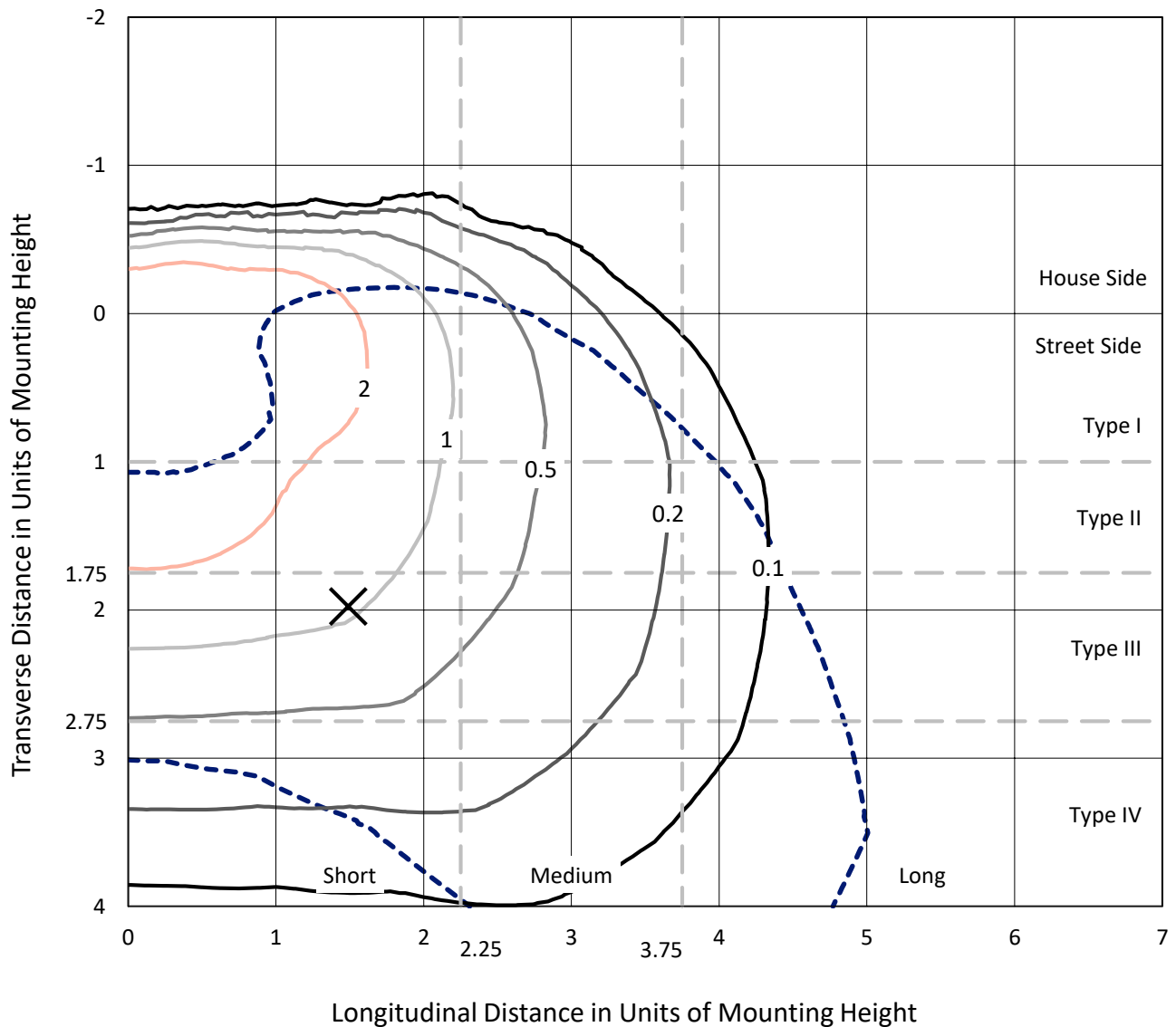


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

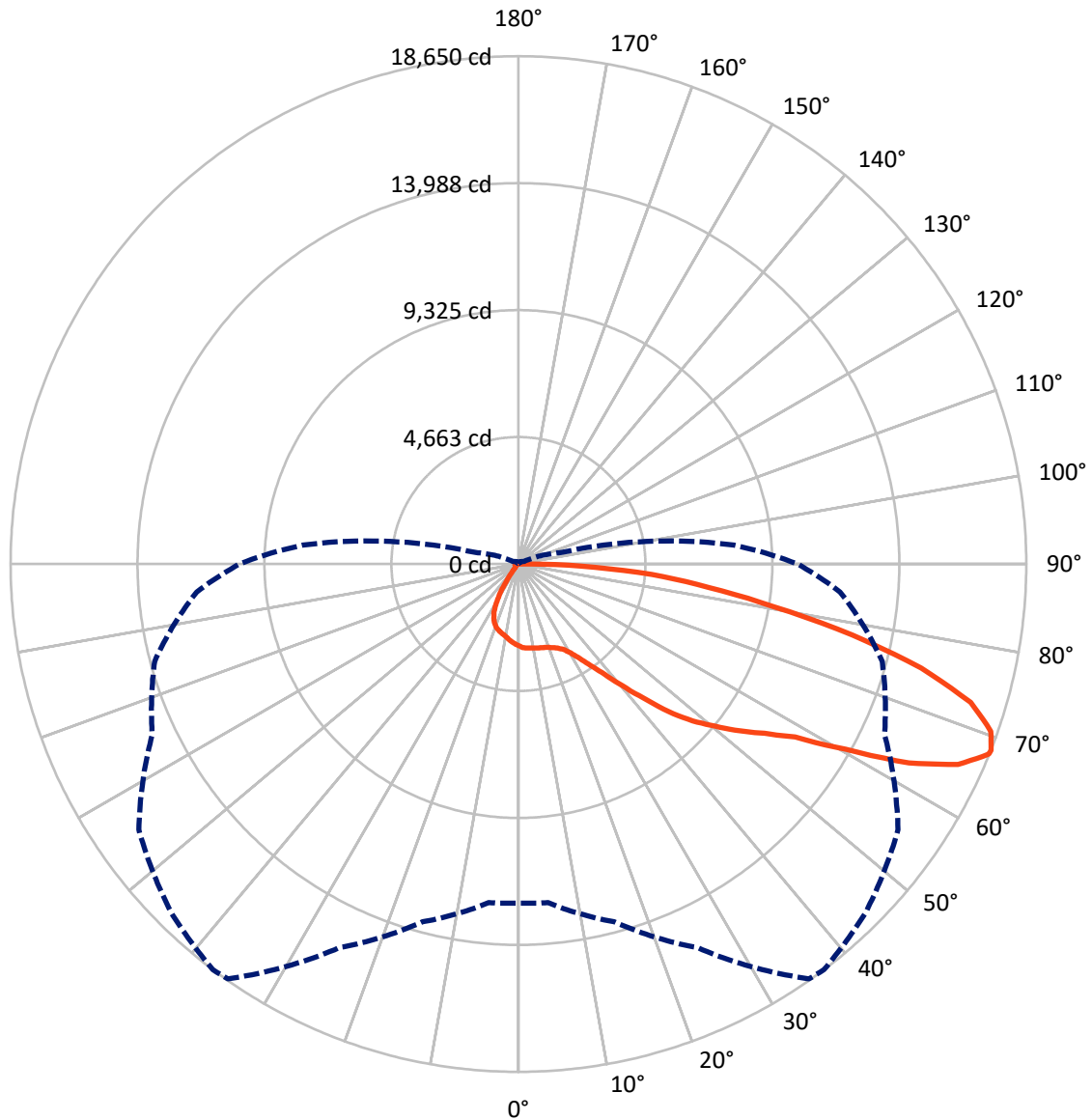


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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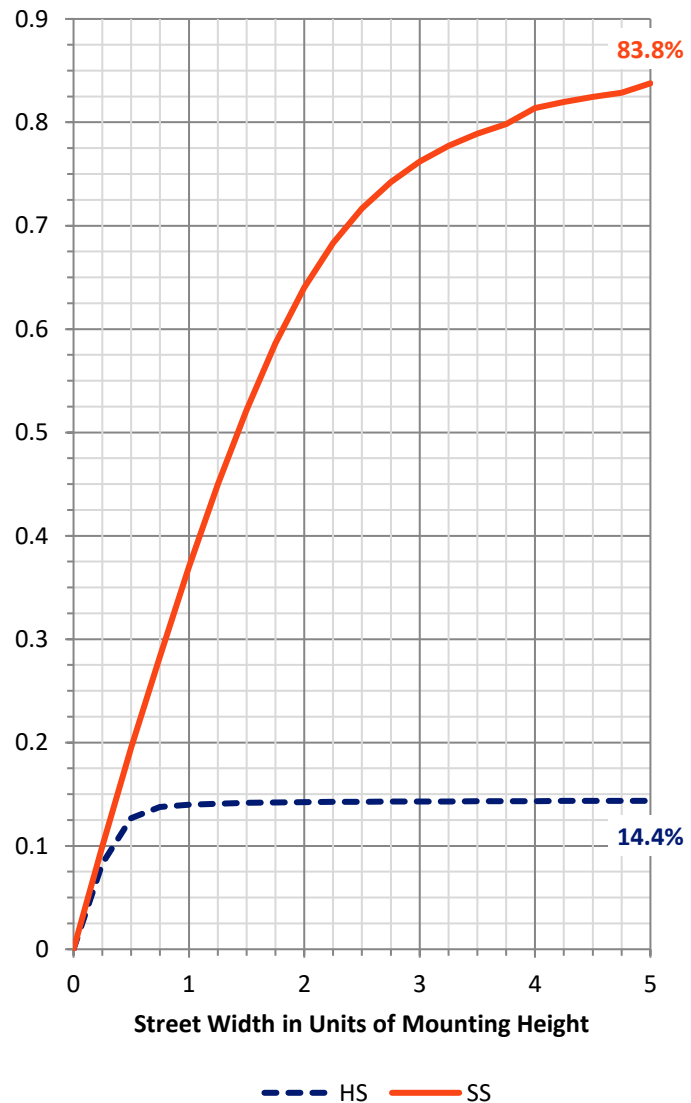
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4413.3	0.0	4413.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	25969.8	0.0	25969.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	30383.1	0.0	30383.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	0.9
10°-20°	843.0	2.8
20°-30°	1408.7	4.6
30°-40°	2288.1	7.5
40°-50°	4133.7	13.6
50°-60°	6157.5	20.3
60°-70°	8021.2	26.4
70°-80°	5905.6	19.4
80°-90°	1341.4	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°	30383.1	100.0
0°-180°	30383.1	100.0



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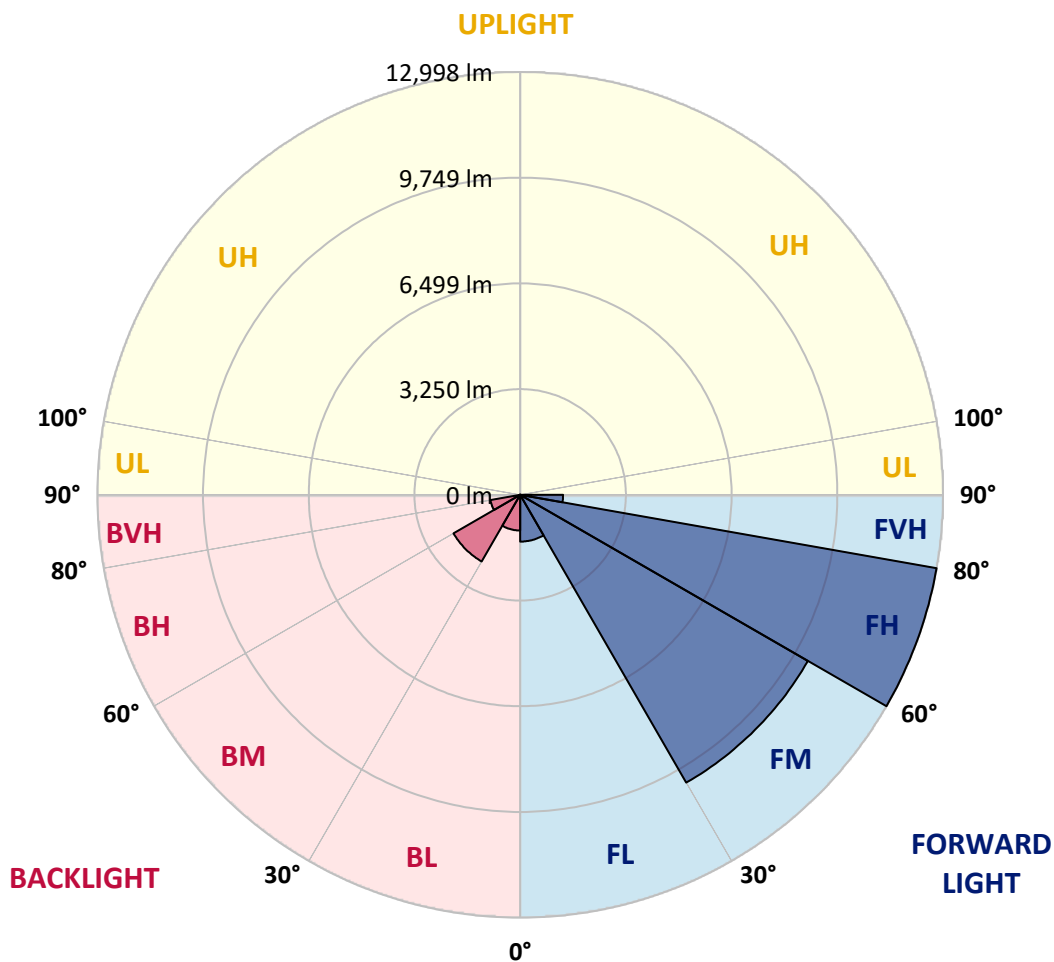
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.1	4.7			
FM	(30°-60°)	10214.2	33.6			
FH	(60°-80°)	12998.1	42.8			G5
FVH	(80°-90°)	1319.4	4.3			G5
BL	(0°-30°)	1097.6	3.6	B3/2500		
BM	(30°-60°)	2365.1	7.8	B2/2500		
BH	(60°-80°)	928.7	3.1	B2/1000		G2/1000
BVH	(80°-90°)	22.0	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°	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
2.5°	3072.2	3074.8	3074.8	3071.0	3076.0	3072.2	3063.2	3054.2	3043.9	3002.9	2993.9
5°	3086.3	3092.8	3092.8	3091.4	3099.1	3097.9	3090.1	3082.5	3071.0	3022.2	3005.5
7.5°	3094.1	3100.4	3101.7	3099.1	3114.5	3117.2	3112.0	3112.0	3103.0	3054.2	3029.8
10°	3092.8	3094.1	3097.9	3104.2	3128.7	3135.1	3141.5	3151.7	3151.7	3112.0	3083.8
12.5°	3059.4	3060.7	3073.5	3103.0	3151.7	3162.0	3181.3	3209.5	3223.6	3201.9	3177.5
15°	3036.3	3036.3	3054.2	3100.4	3174.8	3189.0	3230.0	3273.7	3314.7	3312.2	3307.0
17.5°	3056.8	3060.7	3088.9	3128.7	3204.4	3219.8	3273.7	3344.3	3409.7	3437.9	3443.1
20°	3118.4	3122.3	3153.1	3194.1	3259.6	3271.1	3323.7	3408.4	3505.9	3567.5	3603.4
22.5°	3209.5	3212.1	3236.5	3267.2	3331.5	3339.1	3390.4	3481.6	3604.7	3710.0	3772.9
25°	3295.5	3300.6	3322.5	3345.6	3417.4	3423.8	3486.8	3583.0	3726.7	3867.9	3983.3
27.5°	3382.8	3391.8	3418.7	3450.8	3554.7	3557.2	3615.0	3710.0	3880.7	4073.2	4245.1
30°	3576.5	3566.2	3589.4	3631.7	3778.0	3787.0	3844.8	3951.3	4110.4	4327.3	4576.2
32.5°	3906.4	3894.8	3893.5	3956.4	4091.1	4134.8	4197.6	4365.7	4564.7	4780.3	5040.8
35°	4558.2	4540.3	4454.3	4433.8	4513.4	4575.0	4700.7	4947.1	5282.0	5753.0	6049.5
37.5°	5641.3	5618.2	5429.7	5207.6	5093.3	5131.9	5237.1	5578.5	6140.5	7137.7	7431.6
40°	6711.6	6716.8	6488.3	6118.7	5869.8	5877.5	5835.2	6229.1	7065.8	8429.9	8549.3
42.5°	7734.4	7725.4	7445.7	7108.1	6789.9	6727.0	6569.2	6910.5	7932.1	9472.0	9420.6
45°	8641.7	8623.8	8311.8	8123.3	7774.2	7740.9	7488.0	7602.2	8806.0	10301.0	10125.2
47.5°	9507.9	9492.6	9122.9	8944.6	8663.5	8605.8	8368.3	8426.1	9617.0	10952.9	10692.4
50°	10410.0	10440.9	9903.2	9697.9	9439.9	9364.2	9244.9	9279.5	10453.7	11566.4	11176.2
52.5°	11506.0	11350.7	10781.0	10401.1	10194.4	10179.1	10026.3	10099.5	11373.8	12105.3	11607.4
55°	12675.1	12469.7	11908.9	11413.6	10950.4	10977.3	10751.4	10859.2	12200.3	12571.2	11947.4
57.5°	13473.3	13468.1	13319.3	12845.8	12038.6	11982.1	11563.7	11654.9	12924.0	13052.4	12202.8
60°	14236.9	14446.0	14606.5	14394.7	14003.3	13823.6	12653.3	12483.9	13585.0	13487.4	12349.1
62.5°	14750.2	14814.3	15418.8	15597.2	16124.6	16089.9	14831.0	13487.4	14148.3	13769.7	12396.6
65°	14277.9	14330.5	15248.0	16106.6	17673.5	17745.4	17220.5	15144.2	14592.3	13867.3	12299.1
67.5°	12813.7	12852.1	13930.2	15707.5	18534.6	18629.5	18017.5	16872.8	14816.9	13850.6	11966.7
68°	12456.9	12483.9	13602.9	15539.4	18598.8	18650.1	18057.2	17016.5	14834.9	13831.4	11858.9
70°	10926.0	10920.8	11978.2	14541.0	18390.9	18406.2	17827.5	17173.0	14764.3	13649.1	11171.0
72.5°	8447.9	8612.2	9493.8	12247.8	17244.9	17368.1	17066.5	16740.6	14464.0	12912.4	9524.6
75°	6010.9	6139.3	7045.3	9551.5	14886.2	15275.1	15810.2	15929.6	13373.2	11097.9	7017.1
77.5°	4193.8	4329.8	5176.8	7133.9	12033.5	12541.6	13670.9	13848.0	11248.1	8413.3	3580.3
80°	2683.3	2813.0	3590.6	5188.3	9085.7	9519.5	10754.0	10498.6	7871.8	4506.9	627.6
82.5°	1631.1	1696.5	2284.3	3548.3	6621.8	7024.7	7435.4	6304.8	3767.7	637.8	201.5
85°	926.6	972.8	1401.4	2291.9	4677.6	4911.2	5003.6	3146.6	784.1	171.9	115.5
87.5°	246.4	342.7	757.2	1413.0	2353.5	2293.2	2471.6	1126.8	141.2	74.4	55.2
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°	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7	3006.7
2.5°	2983.6	2981.1	2972.1	2968.2	2972.1	2968.2	2940.1	2942.6	2942.6	2928.5	2919.5
5°	2990.1	2983.6	2955.4	2950.3	2934.9	2910.5	2864.3	2854.0	2845.1	2822.0	2818.1
7.5°	3008.0	2999.1	2954.2	2933.6	2891.3	2847.6	2784.8	2747.6	2729.6	2701.4	2705.2
10°	3060.7	3041.4	2977.3	2937.4	2857.9	2786.1	2694.9	2638.4	2605.1	2562.7	2576.8
12.5°	3155.6	3126.1	3046.6	2977.3	2855.4	2748.9	2619.2	2515.2	2462.7	2413.9	2428.0
15°	3285.3	3253.2	3155.6	3050.4	2888.7	2733.4	2555.0	2390.8	2295.8	2232.9	2236.8
17.5°	3430.3	3402.0	3290.4	3150.4	2940.1	2723.1	2481.9	2261.2	2087.9	1998.1	1995.5
20°	3584.3	3567.5	3445.6	3257.0	2992.6	2700.1	2388.2	2095.6	1856.9	1705.5	1692.7
22.5°	3761.4	3753.6	3611.2	3362.2	3017.0	2647.4	2262.5	1890.3	1573.3	1368.0	1355.2
25°	3993.6	3982.0	3775.5	3435.3	3006.7	2558.9	2086.6	1643.9	1214.0	977.9	967.6
27.5°	4273.4	4215.6	3920.5	3472.6	2956.7	2419.0	1856.9	1278.1	816.1	601.9	596.7
30°	4587.8	4474.8	4047.5	3476.5	2864.3	2224.0	1519.4	826.4	474.8	338.7	336.2
32.5°	4995.8	4797.0	4184.8	3454.6	2723.1	1960.9	1085.7	473.6	238.7	182.2	182.2
35°	5799.2	5365.4	4360.6	3398.1	2526.8	1584.9	669.9	229.7	139.9	137.4	138.6
37.5°	6992.7	6285.5	4648.1	3307.0	2265.0	1142.1	343.9	128.4	128.4	133.4	134.7
40°	8046.2	7248.0	5062.6	3178.7	1917.3	722.5	164.3	120.6	128.4	129.6	132.2
42.5°	8880.4	8020.6	5500.2	2984.9	1509.2	385.0	137.4	116.8	119.3	118.1	123.2
45°	9547.7	8630.1	5837.7	2730.8	1065.1	197.7	142.5	112.9	104.0	104.0	106.5
47.5°	10067.5	9093.4	6049.5	2454.9	648.0	159.1	142.5	100.1	93.7	95.0	96.2
50°	10524.3	9439.9	6122.6	2114.8	325.9	161.7	137.4	95.0	83.4	84.7	87.2
52.5°	10852.8	9683.8	6067.4	1692.7	179.7	164.3	130.9	87.2	71.9	78.3	80.9
55°	11100.4	9799.2	5885.2	1203.7	163.0	161.7	127.1	78.3	64.1	76.9	80.9
57.5°	11240.3	9837.7	5575.9	784.1	178.4	142.5	116.8	71.9	60.3	75.7	80.9
60°	11298.1	9767.2	5129.3	459.5	182.2	125.8	109.1	66.8	55.2	62.9	65.4
62.5°	11237.8	9586.2	4472.2	290.0	166.8	119.3	104.0	62.9	46.2	44.9	43.7
65°	10997.8	9138.4	3386.6	232.2	155.3	119.3	97.5	55.2	35.9	26.9	24.4
67.5°	10424.2	8214.3	1916.0	229.7	151.5	116.8	88.5	50.0	28.2	14.1	11.6
68°	10250.9	7948.7	1614.3	233.6	155.3	116.8	87.2	47.5	26.9	11.6	9.0
70°	9194.8	6515.3	557.0	224.6	177.1	123.2	83.4	41.0	21.8	5.1	3.8
72.5°	7001.6	4002.6	246.4	180.9	195.0	128.4	83.4	39.7	18.0	1.3	0.0
75°	4070.7	985.6	210.5	121.9	163.0	152.7	96.2	46.2	16.6	0.0	0.0
77.5°	986.9	227.1	183.5	70.6	128.4	166.8	114.3	51.3	18.0	0.0	0.0
80°	234.9	177.1	178.4	44.9	102.7	148.8	98.8	55.2	25.6	0.0	0.0
82.5°	155.3	139.9	159.1	24.4	59.0	110.3	69.3	34.7	32.1	0.0	0.0
85°	105.2	128.4	91.2	14.1	23.1	37.2	28.2	5.1	6.5	0.0	0.0
87.5°	59.0	37.2	15.4	6.5	5.1	3.8	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)