

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-AP-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-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K 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: 34245.4 lumens
Efficiency: N/A
Efficacy: 129.7 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

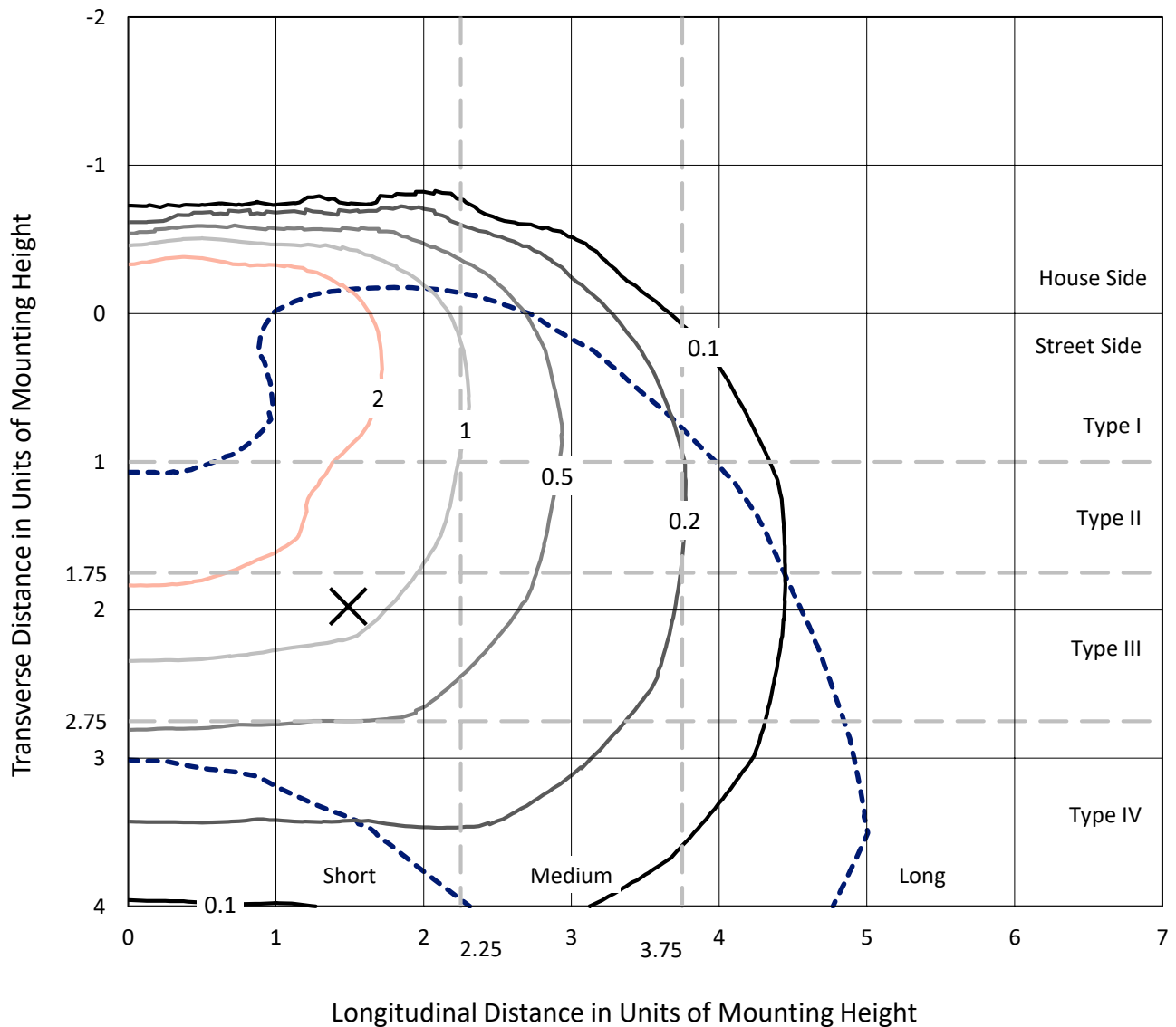


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

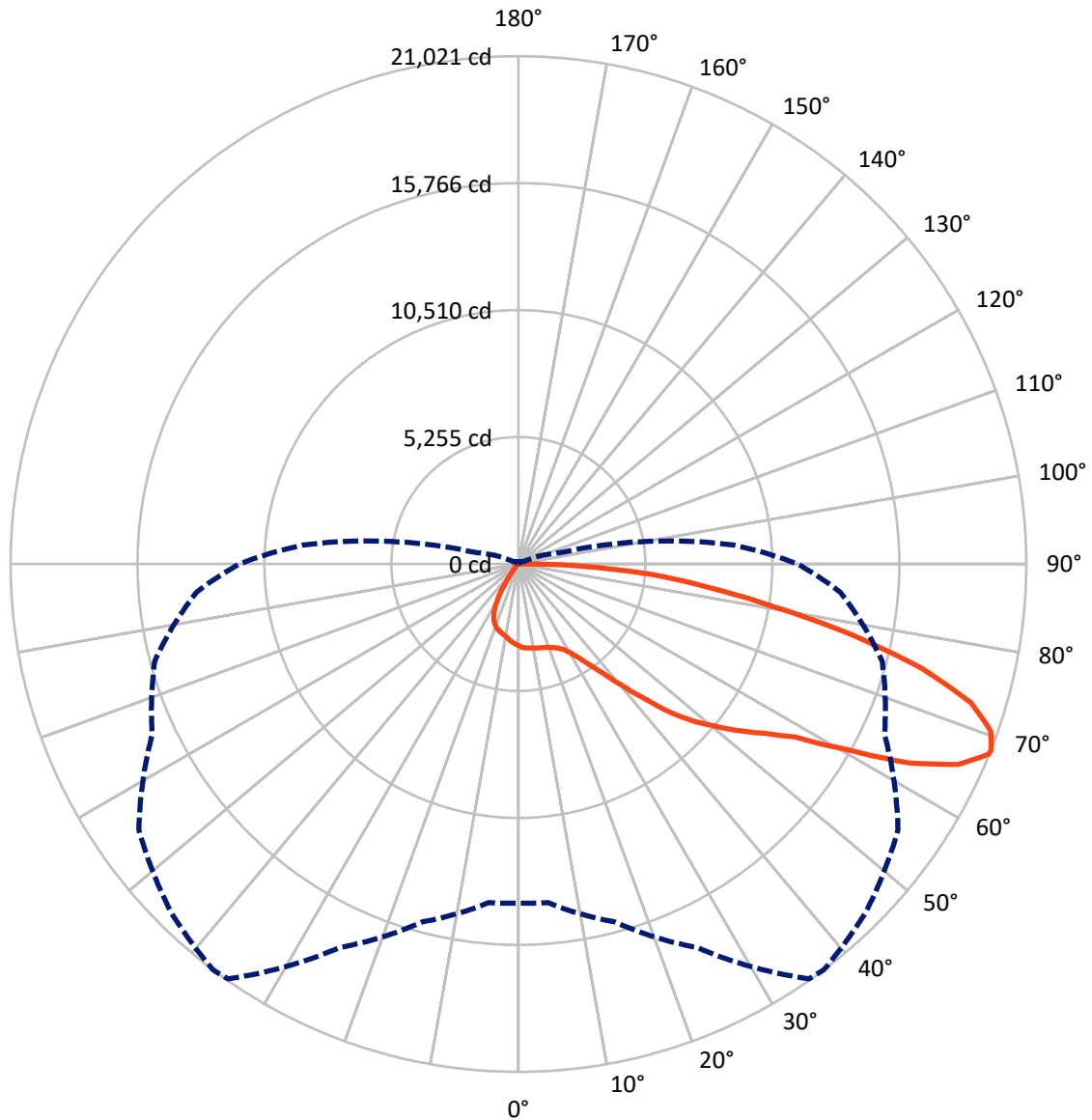


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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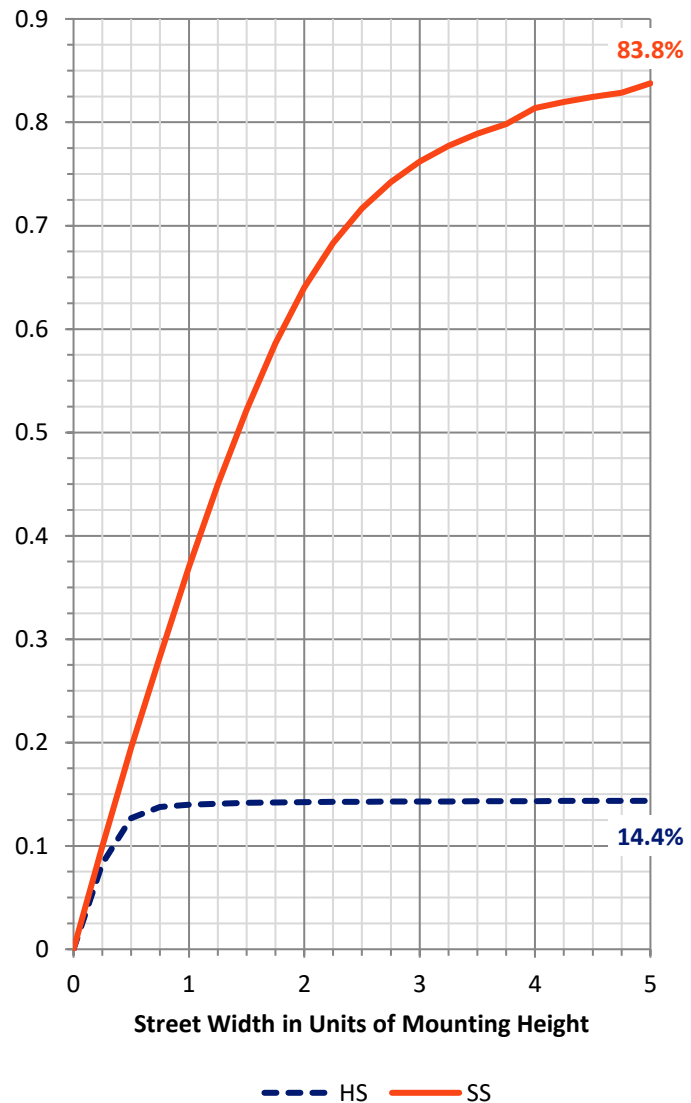
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4974.3	0.0	4974.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	29271.1	0.0	29271.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	34245.4	0.0	34245.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	0.9
10°-20°	950.1	2.8
20°-30°	1587.8	4.6
30°-40°	2579.0	7.5
40°-50°	4659.2	13.6
50°-60°	6940.2	20.3
60°-70°	9040.8	26.4
70°-80°	6656.3	19.4
80°-90°	1511.9	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°	34245.4	100.0
0°-180°	34245.4	100.0

Coefficient of Utilization



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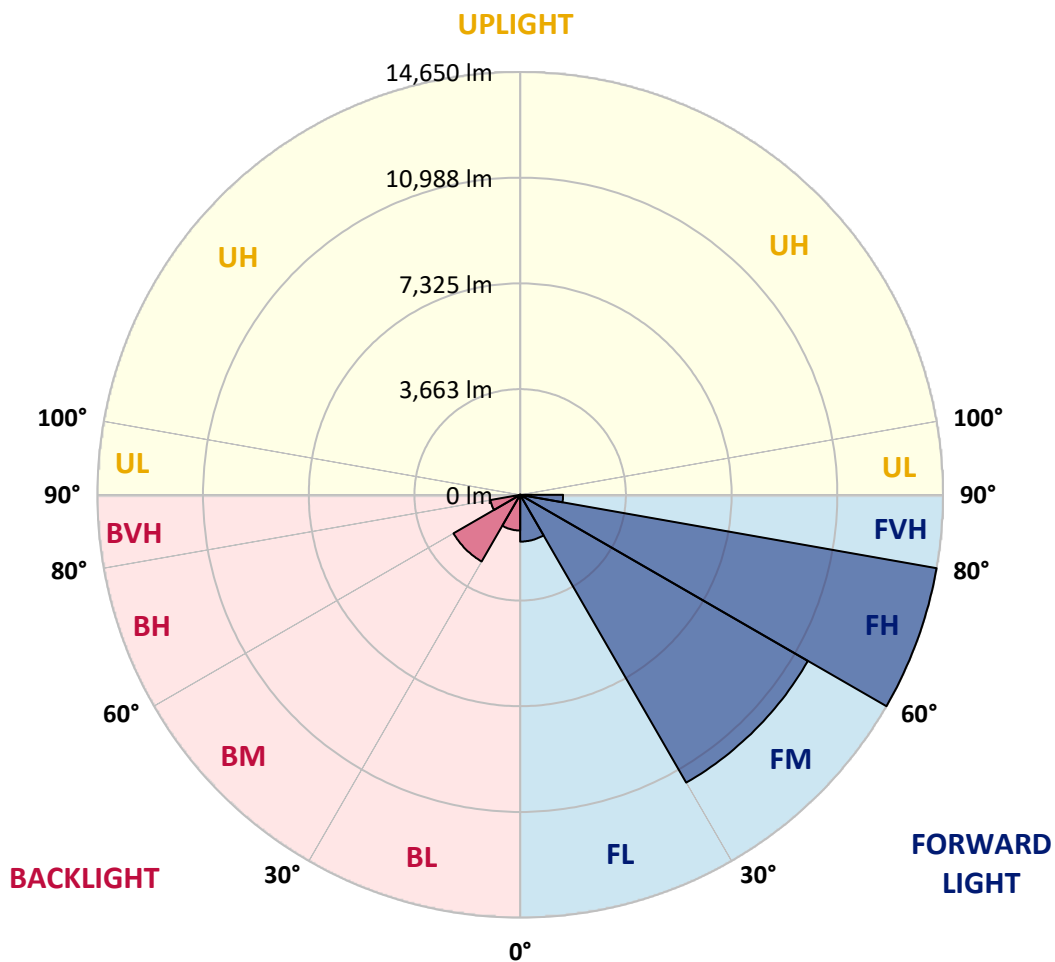
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.9	4.7			
FM	(30°-60°)	11512.6	33.6			
FH	(60°-80°)	14650.4	42.8			G5
FVH	(80°-90°)	1487.1	4.3			G5
BL	(0°-30°)	1237.1	3.6	B3/2500		
BM	(30°-60°)	2665.7	7.8	B3/5000		
BH	(60°-80°)	1046.7	3.1	B3/2500		G3/2500
BVH	(80°-90°)	24.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9
2.5°	3462.7	3465.7	3465.7	3461.3	3467.0	3462.7	3452.6	3442.4	3430.9	3384.7	3374.5
5°	3478.7	3485.9	3485.9	3484.4	3493.1	3491.6	3482.9	3474.4	3461.3	3406.3	3387.5
7.5°	3487.3	3494.6	3496.0	3493.1	3510.5	3513.4	3507.5	3507.5	3497.5	3442.4	3415.0
10°	3485.9	3487.3	3491.6	3498.9	3526.4	3533.6	3540.8	3552.5	3552.5	3507.5	3475.7
12.5°	3448.3	3449.8	3464.2	3497.5	3552.5	3564.0	3585.6	3617.5	3633.4	3608.9	3581.3
15°	3422.2	3422.2	3442.4	3494.6	3578.4	3594.3	3640.7	3689.8	3736.1	3733.2	3727.5
17.5°	3445.4	3449.8	3481.6	3526.4	3611.7	3629.1	3689.8	3769.4	3843.2	3875.0	3880.7
20°	3514.8	3519.2	3553.8	3600.2	3673.9	3687.0	3746.2	3841.7	3951.6	4021.0	4061.5
22.5°	3617.5	3620.4	3647.9	3682.6	3754.9	3763.6	3821.5	3924.2	4063.0	4181.6	4252.5
25°	3714.4	3720.2	3744.8	3770.8	3851.8	3859.1	3929.9	4038.4	4200.4	4359.5	4489.7
27.5°	3812.8	3822.8	3853.3	3889.4	4006.6	4009.5	4074.6	4181.6	4374.0	4591.0	4784.8
30°	4031.2	4019.6	4045.6	4093.3	4258.3	4268.4	4333.5	4453.5	4632.9	4877.3	5157.9
32.5°	4402.9	4389.9	4388.4	4459.3	4611.2	4660.4	4731.3	4920.7	5145.0	5387.9	5681.6
35°	5137.7	5117.4	5020.5	4997.4	5087.1	5156.5	5298.2	5575.9	5953.5	6484.4	6818.4
37.5°	6358.4	6332.5	6119.9	5869.6	5740.8	5784.3	5902.9	6287.6	6921.1	8045.0	8376.3
40°	7564.8	7570.5	7313.1	6896.6	6615.9	6624.6	6576.9	7021.0	7964.0	9501.6	9636.1
42.5°	8717.6	8707.5	8392.2	8011.8	7653.0	7582.2	7404.2	7789.0	8940.4	10676.1	10618.2
45°	9740.3	9719.9	9368.5	9155.8	8762.4	8724.8	8439.9	8568.7	9925.3	11610.5	11412.3
47.5°	10716.5	10699.2	10282.6	10081.6	9764.9	9699.7	9432.2	9497.2	10839.5	12345.2	12051.6
50°	11733.4	11768.1	11162.0	10930.6	10639.9	10554.6	10420.1	10459.1	11782.6	13036.7	12596.9
52.5°	12968.6	12793.6	12151.4	11723.2	11490.4	11473.0	11300.9	11383.3	12819.7	13644.1	13082.9
55°	14286.3	14054.9	13422.8	12864.5	12342.3	12372.7	12118.2	12239.6	13751.1	14169.2	13466.2
57.5°	15186.0	15180.2	15012.4	14478.7	13568.9	13505.2	13033.7	13136.4	14566.9	14711.6	13754.0
60°	16046.7	16282.4	16463.2	16224.5	15783.4	15580.8	14261.7	14070.8	15311.8	15201.9	13918.9
62.5°	16625.2	16697.6	17378.8	17579.8	18174.3	18135.3	16716.3	15201.9	15946.8	15520.1	13972.4
65°	16092.9	16152.2	17186.4	18154.1	19920.2	20001.2	19409.5	17069.3	16447.3	15630.0	13862.5
67.5°	14442.5	14486.0	15700.9	17704.3	20890.7	20997.8	20307.8	19017.6	16700.4	15611.3	13487.9
68°	14040.4	14070.8	15332.1	17514.7	20963.0	21020.9	20352.6	19179.6	16720.7	15589.5	13366.4
70°	12314.9	12309.0	13500.9	16389.4	20728.7	20746.1	20093.7	19356.0	16641.1	15384.1	12591.1
72.5°	9521.8	9707.0	10700.6	13804.7	19437.1	19575.9	19236.0	18868.6	16302.6	14553.9	10735.4
75°	6775.1	6919.7	7940.9	10765.7	16778.5	17216.8	17820.0	17954.5	15073.2	12508.7	7909.1
77.5°	4726.9	4880.2	5834.9	8040.7	13563.1	14135.9	15408.7	15608.4	12677.9	9482.7	4035.6
80°	3024.4	3170.6	4047.1	5847.9	10240.6	10729.6	12121.0	11833.1	8872.3	5079.9	707.3
82.5°	1838.4	1912.2	2574.6	3999.3	7463.5	7917.8	8380.6	7106.3	4246.7	718.8	227.1
85°	1044.3	1096.4	1579.5	2583.3	5272.3	5535.4	5639.6	3546.6	883.7	193.9	130.2
87.5°	277.7	386.2	853.4	1592.5	2652.7	2584.8	2785.8	1270.0	159.1	83.9	62.2
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°	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9	3388.9
2.5°	3363.0	3360.1	3349.9	3345.6	3349.9	3345.6	3313.8	3316.6	3316.6	3300.7	3290.6
5°	3370.2	3363.0	3331.2	3325.3	3307.9	3280.5	3228.5	3216.8	3206.7	3180.7	3176.3
7.5°	3390.4	3380.3	3329.7	3306.6	3258.8	3209.6	3138.8	3096.8	3076.6	3044.8	3049.0
10°	3449.8	3428.0	3355.7	3310.9	3221.1	3140.2	3037.5	2973.9	2936.2	2888.5	2904.4
12.5°	3556.7	3523.5	3433.8	3355.7	3218.3	3098.2	2952.1	2835.0	2775.7	2720.8	2736.7
15°	3702.9	3666.7	3556.7	3438.1	3255.9	3080.9	2879.9	2694.7	2587.6	2516.7	2521.1
17.5°	3866.3	3834.5	3708.6	3551.0	3313.8	3069.4	2797.4	2548.6	2353.3	2252.1	2249.2
20°	4039.9	4021.0	3883.7	3671.1	3373.0	3043.3	2691.8	2362.0	2093.0	1922.3	1907.8
22.5°	4239.5	4230.8	4070.2	3789.7	3400.6	2983.9	2550.0	2130.6	1773.3	1541.8	1527.4
25°	4501.3	4488.3	4255.4	3872.0	3388.9	2884.2	2351.9	1852.9	1368.3	1102.2	1090.6
27.5°	4816.6	4751.5	4418.8	3914.0	3332.5	2726.5	2093.0	1440.6	919.9	678.3	672.6
30°	5170.9	5043.6	4562.0	3918.3	3228.5	2506.7	1712.6	931.5	535.1	381.9	378.9
32.5°	5630.9	5406.8	4716.8	3893.8	3069.4	2210.1	1223.7	533.8	269.0	205.4	205.4
35°	6536.4	6047.5	4915.0	3830.2	2848.1	1786.4	755.1	258.9	157.7	154.7	156.2
37.5°	7881.5	7084.6	5239.0	3727.5	2553.0	1287.4	387.6	144.7	144.7	150.4	151.9
40°	9069.0	8169.4	5706.2	3582.8	2160.9	814.3	185.2	136.0	144.7	146.1	149.0
42.5°	10009.3	9040.1	6199.4	3364.3	1701.0	433.9	154.7	131.6	134.5	133.1	138.8
45°	10761.4	9727.2	6579.8	3077.9	1200.5	222.8	160.6	127.3	117.1	117.1	120.1
47.5°	11347.2	10249.3	6818.4	2767.0	730.5	179.3	160.6	112.8	105.6	107.0	108.5
50°	11862.1	10639.9	6900.9	2383.7	367.4	182.2	154.7	107.0	94.0	95.5	98.4
52.5°	12232.4	10914.7	6838.7	1907.8	202.5	185.2	147.5	98.4	81.0	88.2	91.2
55°	12511.6	11044.9	6633.3	1356.8	183.7	182.2	143.2	88.2	72.3	86.8	91.2
57.5°	12669.2	11088.2	6284.7	883.7	201.1	160.6	131.6	81.0	67.9	85.3	91.2
60°	12734.3	11008.8	5781.3	517.9	205.4	141.7	122.9	75.3	62.2	70.9	73.8
62.5°	12666.3	10804.8	5040.8	326.9	188.0	134.5	117.1	70.9	52.0	50.7	49.2
65°	12395.8	10300.0	3817.1	261.8	175.0	134.5	109.9	62.2	40.5	30.4	27.5
67.5°	11749.3	9258.5	2159.5	258.9	170.6	131.6	99.8	56.4	31.8	15.9	13.0
68°	11554.1	8959.1	1819.6	263.3	175.0	131.6	98.4	53.5	30.4	13.0	10.2
70°	10363.6	7343.5	627.8	253.1	199.6	138.8	94.0	46.3	24.6	5.8	4.3
72.5°	7891.7	4511.4	277.7	203.9	219.8	144.7	94.0	44.8	20.2	1.5	0.0
75°	4588.1	1110.9	237.2	137.4	183.7	172.1	108.5	52.0	18.8	0.0	0.0
77.5°	1112.3	256.0	206.8	79.6	144.7	188.0	128.8	57.9	20.2	0.0	0.0
80°	264.7	199.6	201.1	50.7	115.7	167.8	111.4	62.2	28.9	0.0	0.0
82.5°	175.0	157.7	179.3	27.5	66.6	124.4	78.1	39.0	36.1	0.0	0.0
85°	118.6	144.7	102.7	15.9	26.1	42.0	31.8	5.8	7.2	0.0	0.0
87.5°	66.6	42.0	17.4	7.2	5.8	4.3	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)