

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: P285852

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285852
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-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K 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: 32907 lumens
Efficiency: N/A
Efficacy: 124.6 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

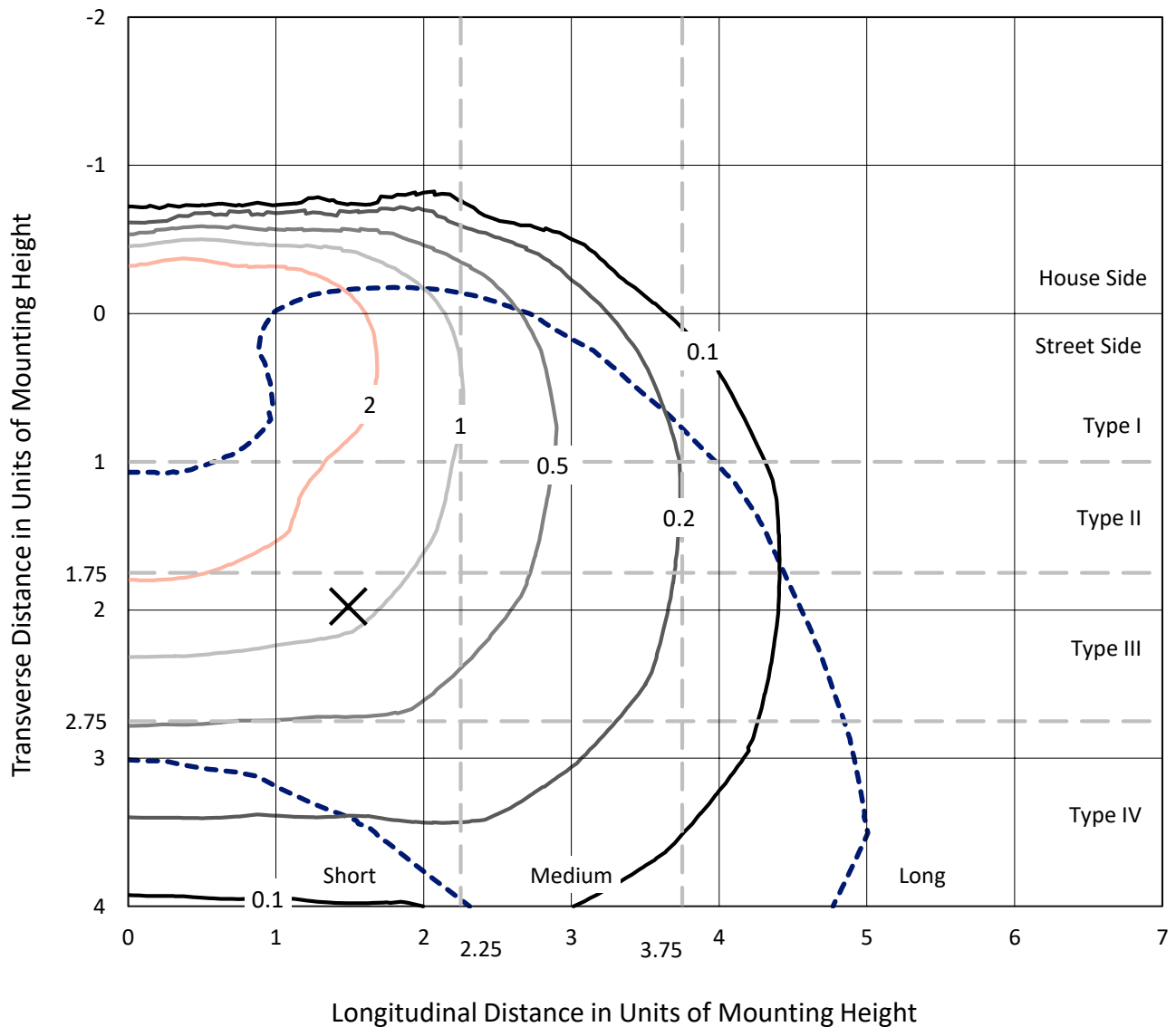


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

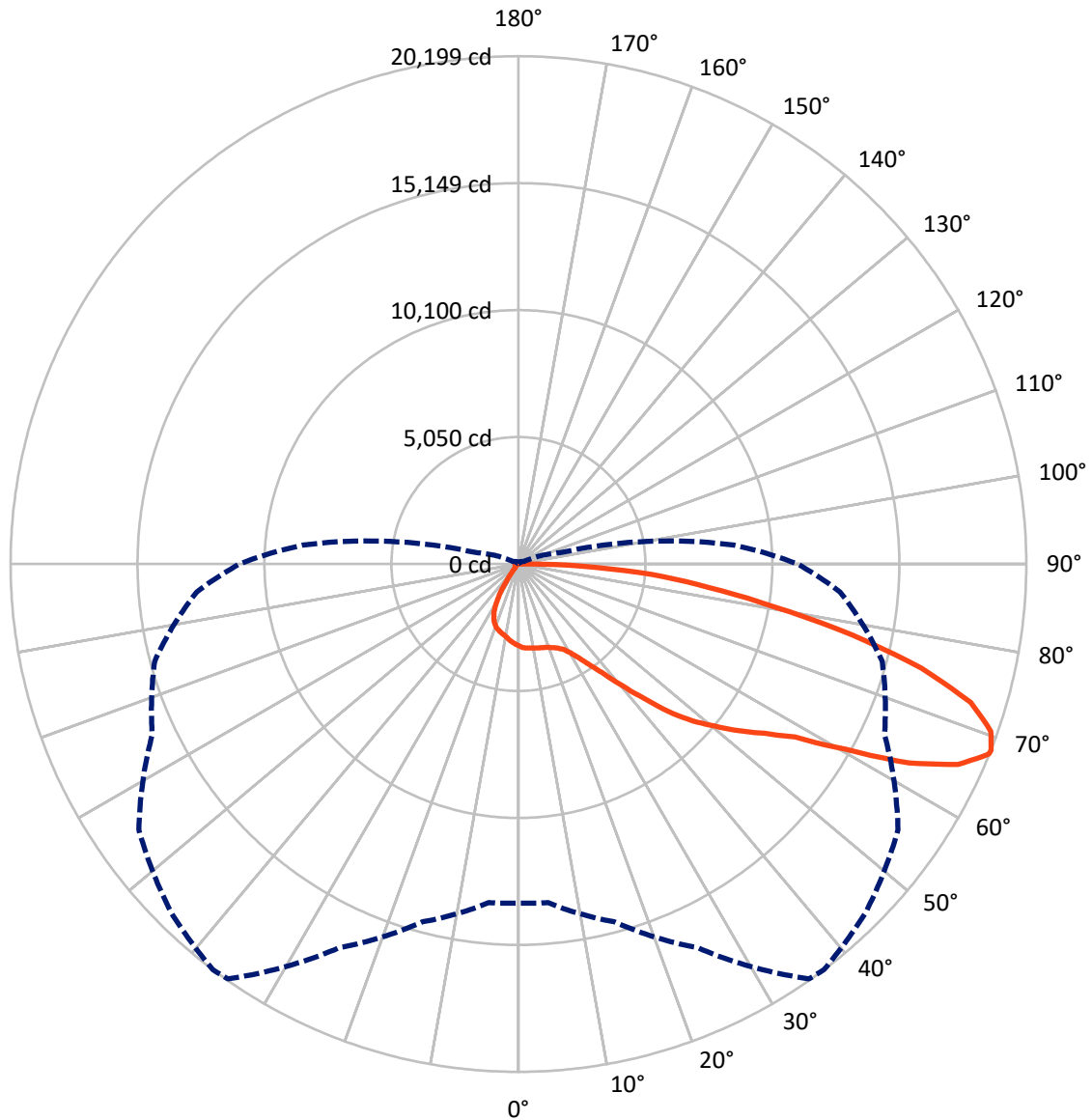


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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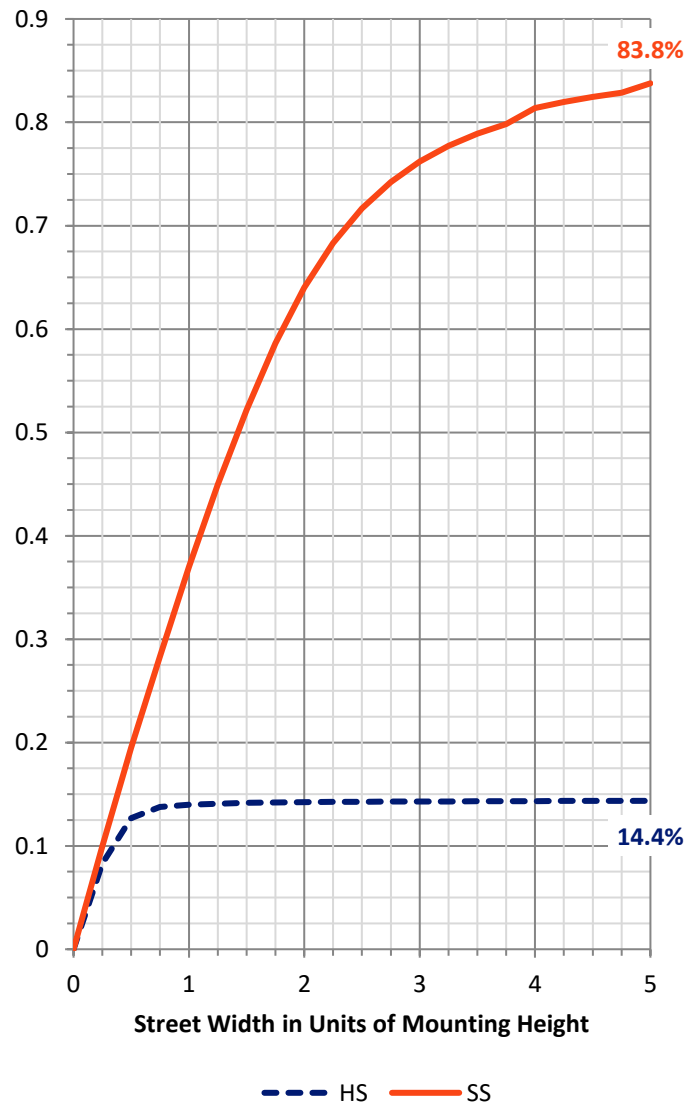
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4779.9	0.0	4779.9
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	28127.1	0.0	28127.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	32907.0	0.0	32907.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	0.9
10°-20°	913.0	2.8
20°-30°	1525.7	4.6
30°-40°	2478.2	7.5
40°-50°	4477.1	13.6
50°-60°	6669.0	20.3
60°-70°	8687.5	26.4
70°-80°	6396.2	19.4
80°-90°	1452.8	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°	32907.0	100.0
0°-180°	32907.0	100.0



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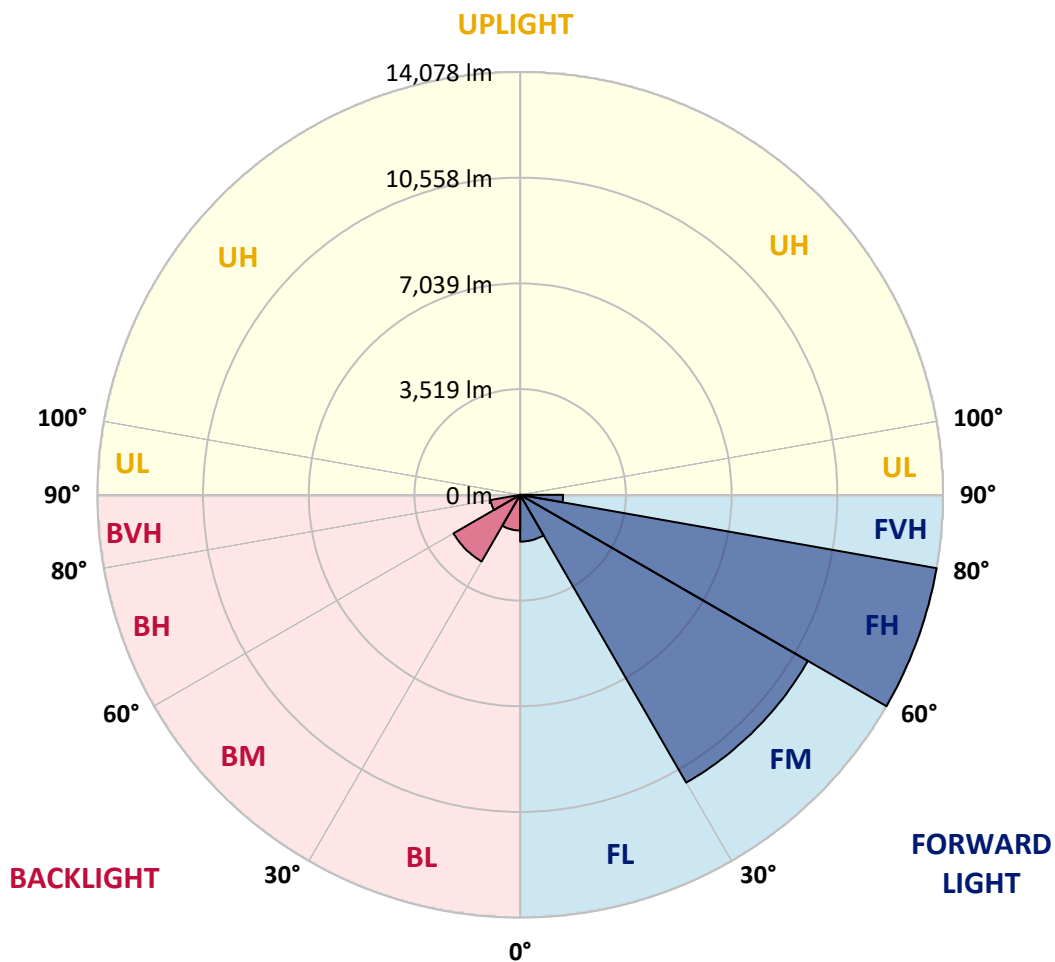
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.6	4.7			
FM	(30°-60°)	11062.7	33.6			
FH	(60°-80°)	14077.8	42.8			G5
FVH	(80°-90°)	1429.0	4.3			G5
BL	(0°-30°)	1188.8	3.6	B3/2500		
BM	(30°-60°)	2561.5	7.8	B3/5000		
BH	(60°-80°)	1005.8	3.1	B3/2500		G3/2500
BVH	(80°-90°)	23.8	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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3327.4	3330.2	3330.2	3326.0	3331.6	3327.4	3317.7	3308.0	3296.8	3252.4	3242.6
5°	3342.7	3349.6	3349.6	3348.3	3356.6	3355.2	3346.9	3338.5	3326.0	3273.2	3255.1
7.5°	3351.0	3358.0	3359.4	3356.6	3373.3	3376.1	3370.5	3370.5	3360.8	3308.0	3281.5
10°	3349.6	3351.0	3355.2	3362.2	3388.6	3395.5	3402.5	3413.6	3413.6	3370.5	3339.9
12.5°	3313.5	3314.9	3328.8	3360.8	3413.6	3424.7	3445.6	3476.1	3491.4	3467.8	3441.4
15°	3288.5	3288.5	3308.0	3358.0	3438.6	3453.9	3498.4	3545.6	3590.1	3587.3	3581.8
17.5°	3310.7	3314.9	3345.5	3388.6	3470.6	3487.2	3545.6	3622.1	3693.0	3723.5	3729.1
20°	3377.4	3381.6	3415.0	3459.4	3530.3	3542.8	3599.8	3691.6	3797.2	3863.9	3902.8
22.5°	3476.1	3478.9	3505.3	3538.7	3608.2	3616.5	3672.1	3770.8	3904.2	4018.2	4086.3
25°	3569.3	3574.8	3598.4	3623.5	3701.3	3708.2	3776.3	3880.6	4036.3	4189.1	4314.2
27.5°	3663.8	3673.5	3702.7	3737.4	3850.0	3852.8	3915.3	4018.2	4203.0	4411.5	4597.8
30°	3873.6	3862.5	3887.5	3933.4	4091.9	4101.6	4164.1	4279.5	4451.8	4686.7	4956.4
32.5°	4230.8	4218.3	4216.9	4285.0	4431.0	4478.2	4546.3	4728.4	4943.9	5177.4	5459.5
35°	4936.9	4917.4	4824.3	4802.1	4888.3	4955.0	5091.2	5358.0	5720.8	6230.9	6552.0
37.5°	6110.0	6085.0	5880.6	5640.2	5516.5	5558.2	5672.2	6041.9	6650.6	7730.6	8048.9
40°	7269.2	7274.7	7027.3	6627.0	6357.4	6365.7	6319.9	6746.6	7652.8	9130.2	9259.5
42.5°	8376.9	8367.2	8064.2	7698.6	7353.9	7285.8	7114.9	7484.6	8590.9	10258.8	10203.2
45°	9359.6	9340.1	9002.4	8798.0	8420.0	8383.8	8110.0	8233.7	9537.5	11156.7	10966.3
47.5°	10297.7	10281.1	9880.8	9687.6	9383.2	9320.6	9063.5	9126.1	10415.9	11862.8	11580.6
50°	11274.8	11308.2	10725.8	10503.4	10224.1	10142.1	10012.8	10050.3	11322.1	12527.1	12104.6
52.5°	12461.8	12293.6	11676.5	11265.1	11041.3	11024.6	10859.3	10938.5	12318.6	13110.9	12571.6
55°	13728.0	13505.6	12898.2	12361.7	11860.0	11889.2	11644.5	11761.3	13213.7	13615.4	12939.9
57.5°	14592.5	14587.0	14425.7	13912.9	13038.6	12977.5	12524.3	12623.0	13997.6	14136.6	13216.5
60°	15419.5	15646.1	15819.8	15590.5	15166.5	14972.0	13704.4	13520.9	14713.4	14607.8	13375.0
62.5°	15975.5	16045.0	16699.6	16892.8	17464.0	17426.5	16063.0	14607.8	15323.6	14913.6	13426.4
65°	15464.0	15521.0	16514.7	17444.6	19141.6	19219.5	18651.0	16402.2	15804.5	15019.2	13320.8
67.5°	13878.1	13919.8	15087.3	17012.3	20074.3	20177.1	19514.1	18274.3	16047.7	15001.1	12960.8
68°	13491.7	13520.9	14732.9	16830.2	20143.8	20199.3	19557.2	18430.0	16067.2	14980.3	12844.0
70°	11833.6	11828.0	12973.3	15748.9	19918.6	19935.3	19308.4	18599.6	15990.7	14782.9	12099.0
72.5°	9149.7	9327.6	10282.4	13265.2	18677.4	18810.8	18484.2	18131.2	15665.5	13985.1	10315.8
75°	6510.3	6649.3	7630.5	10345.0	16122.8	16543.9	17123.5	17252.8	14484.1	12019.8	7599.9
77.5°	4542.2	4689.5	5606.8	7726.4	13033.0	13583.4	14806.6	14998.4	12182.4	9112.2	3877.8
80°	2906.3	3046.7	3888.9	5619.3	9840.5	10310.2	11647.3	11370.7	8525.6	4881.3	679.7
82.5°	1766.6	1837.4	2474.0	3843.1	7171.9	7608.3	8053.1	6828.6	4080.7	690.8	218.2
85°	1003.5	1053.5	1517.8	2482.4	5066.2	5319.1	5419.2	3408.0	849.2	186.2	125.1
87.5°	266.9	371.1	820.0	1530.3	2549.1	2483.7	2676.9	1220.3	152.9	80.6	59.8
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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3231.5	3228.7	3219.0	3214.8	3219.0	3214.8	3184.3	3187.0	3187.0	3171.7	3162.0
5°	3238.5	3231.5	3200.9	3195.4	3178.7	3152.3	3102.2	3091.1	3081.4	3056.4	3052.2
7.5°	3257.9	3248.2	3199.5	3177.3	3131.4	3084.2	3016.1	2975.8	2956.3	2925.7	2929.9
10°	3314.9	3294.1	3224.6	3181.5	3095.3	3017.5	2918.8	2857.6	2821.5	2775.6	2790.9
12.5°	3417.8	3385.8	3299.6	3224.6	3092.5	2977.2	2836.8	2724.2	2667.2	2614.4	2629.7
15°	3558.1	3523.4	3417.8	3303.8	3128.7	2960.5	2767.3	2589.4	2486.5	2418.4	2422.6
17.5°	3715.2	3684.6	3563.7	3412.2	3184.3	2949.4	2688.1	2449.0	2261.4	2164.1	2161.3
20°	3882.0	3863.9	3731.9	3527.6	3241.2	2924.3	2586.6	2269.7	2011.2	1847.2	1833.3
22.5°	4073.8	4065.4	3911.2	3641.5	3267.6	2867.4	2450.4	2047.3	1704.0	1481.6	1467.7
25°	4325.4	4312.8	4089.1	3720.7	3256.5	2771.5	2260.0	1780.5	1314.8	1059.1	1048.0
27.5°	4628.4	4565.8	4246.1	3761.1	3202.3	2620.0	2011.2	1384.3	884.0	651.9	646.3
30°	4968.9	4846.6	4383.7	3765.2	3102.2	2408.7	1645.6	895.1	514.3	366.9	364.2
32.5°	5410.9	5195.4	4532.4	3741.6	2949.4	2123.8	1175.9	512.9	258.5	197.4	197.4
35°	6280.9	5811.2	4722.9	3680.4	2736.7	1716.5	725.5	248.8	151.5	148.7	150.1
37.5°	7573.5	6807.7	5034.2	3581.8	2453.2	1237.0	372.5	139.0	139.0	144.5	145.9
40°	8714.6	7850.1	5483.1	3442.8	2076.5	782.5	177.9	130.7	139.0	140.4	143.2
42.5°	9618.1	8686.8	5957.1	3232.9	1634.5	417.0	148.7	126.5	129.3	127.9	133.4
45°	10340.8	9347.0	6322.6	2957.7	1153.6	214.0	154.3	122.3	112.6	112.6	115.4
47.5°	10903.7	9848.8	6552.0	2658.9	701.9	172.3	154.3	108.4	101.5	102.9	104.2
50°	11398.5	10224.1	6631.2	2290.5	353.0	175.1	148.7	102.9	90.3	91.7	94.5
52.5°	11754.3	10488.2	6571.4	1833.3	194.6	177.9	141.8	94.5	77.8	84.8	87.6
55°	12022.6	10613.2	6374.1	1303.7	176.5	175.1	137.6	84.8	69.5	83.4	87.6
57.5°	12174.1	10654.9	6039.1	849.2	193.2	154.3	126.5	77.8	65.3	82.0	87.6
60°	12236.6	10578.5	5555.4	497.6	197.4	136.2	118.1	72.3	59.8	68.1	70.9
62.5°	12171.3	10382.5	4843.8	314.1	180.7	129.3	112.6	68.1	50.0	48.6	47.3
65°	11911.4	9897.4	3667.9	251.6	168.2	129.3	105.6	59.8	38.9	29.2	26.4
67.5°	11290.1	8896.7	2075.1	248.8	164.0	126.5	95.9	54.2	30.6	15.3	12.5
68°	11102.5	8609.0	1748.5	253.0	168.2	126.5	94.5	51.4	29.2	12.5	9.7
70°	9958.6	7056.5	603.2	243.2	191.8	133.4	90.3	44.5	23.6	5.6	4.2
72.5°	7583.3	4335.1	266.9	196.0	211.3	139.0	90.3	43.1	19.5	1.4	0.0
75°	4408.7	1067.4	227.9	132.0	176.5	165.4	104.2	50.0	18.1	0.0	0.0
77.5°	1068.8	246.0	198.8	76.4	139.0	180.7	123.7	55.6	19.5	0.0	0.0
80°	254.4	191.8	193.2	48.6	111.2	161.2	107.0	59.8	27.8	0.0	0.0
82.5°	168.2	151.5	172.3	26.4	63.9	119.5	75.1	37.5	34.7	0.0	0.0
85°	114.0	139.0	98.7	15.3	25.0	40.3	30.6	5.6	6.9	0.0	0.0
87.5°	63.9	40.3	16.7	6.9	5.6	4.2	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)