

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: P285859

Luminaire Tested: **USSL-XL-C06-D-U-T4-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285859
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-C06-D-U-T4-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 47548.2 lumens
Efficiency: N/A
Efficacy: 137.4 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): 346
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

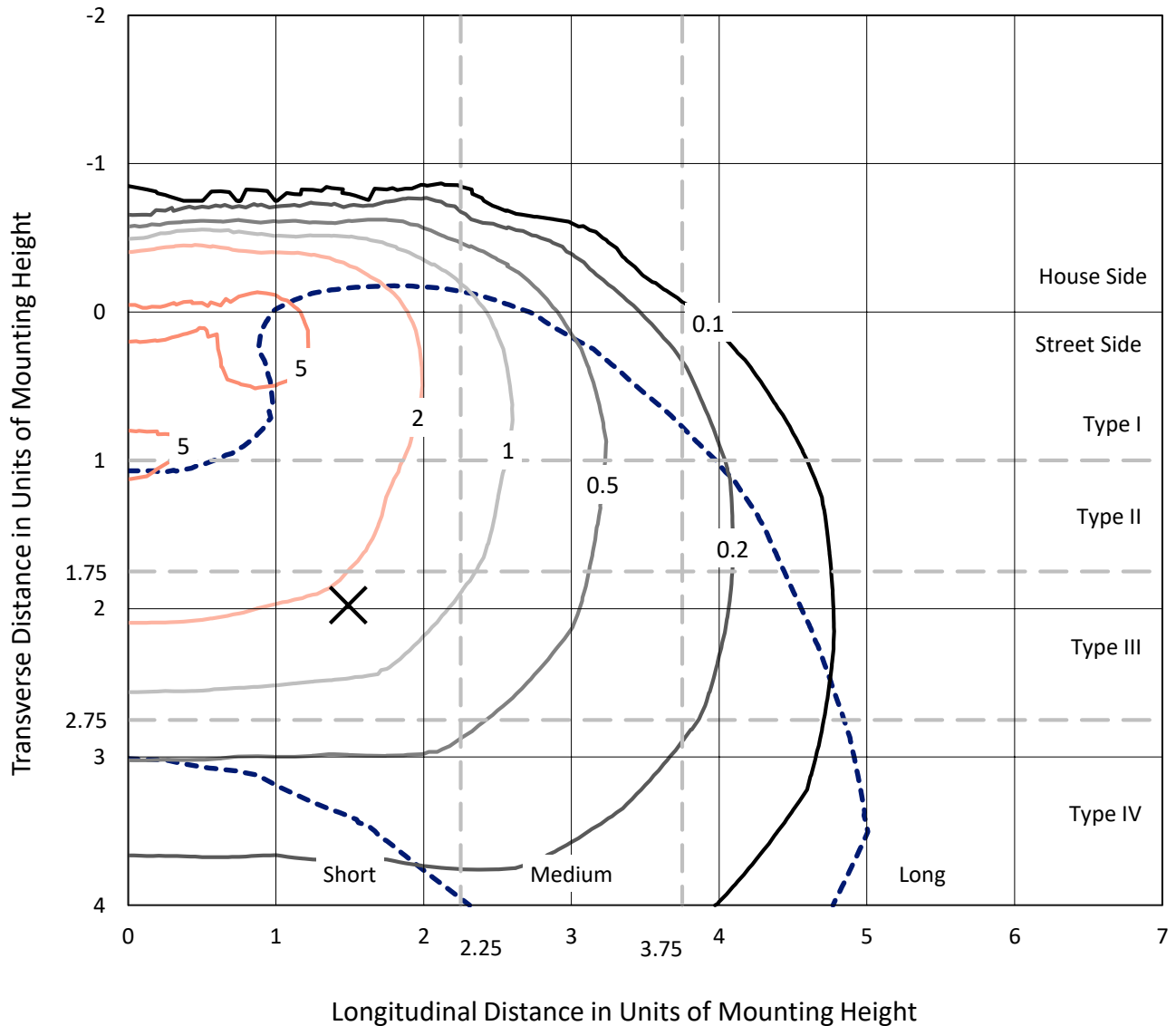


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

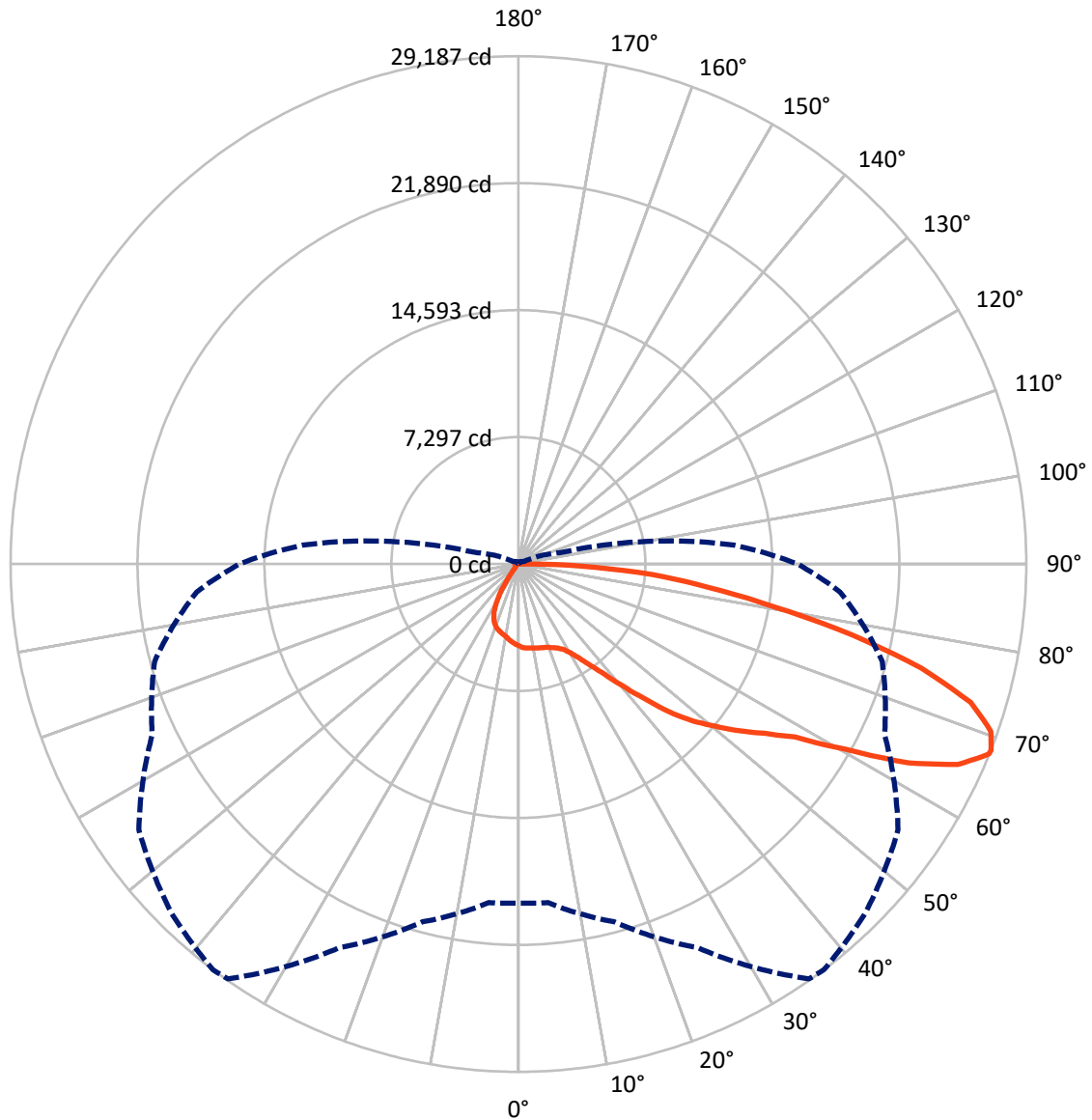


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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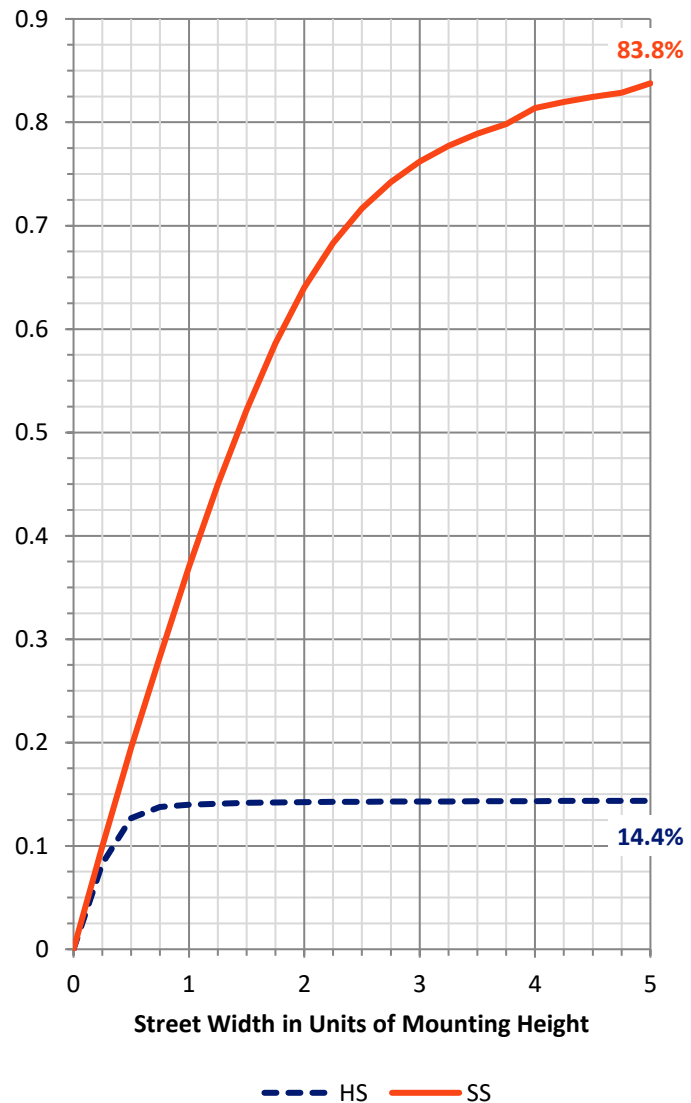
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6906.6	0.0	6906.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	40641.6	0.0	40641.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	47548.2	0.0	47548.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	0.9
10°-20°	1319.2	2.8
20°-30°	2204.6	4.6
30°-40°	3580.8	7.5
40°-50°	6469.0	13.6
50°-60°	9636.2	20.3
60°-70°	12552.7	26.4
70°-80°	9242.0	19.4
80°-90°	2099.2	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°	47548.2	100.0
0°-180°	47548.2	100.0

Coefficient of Utilization



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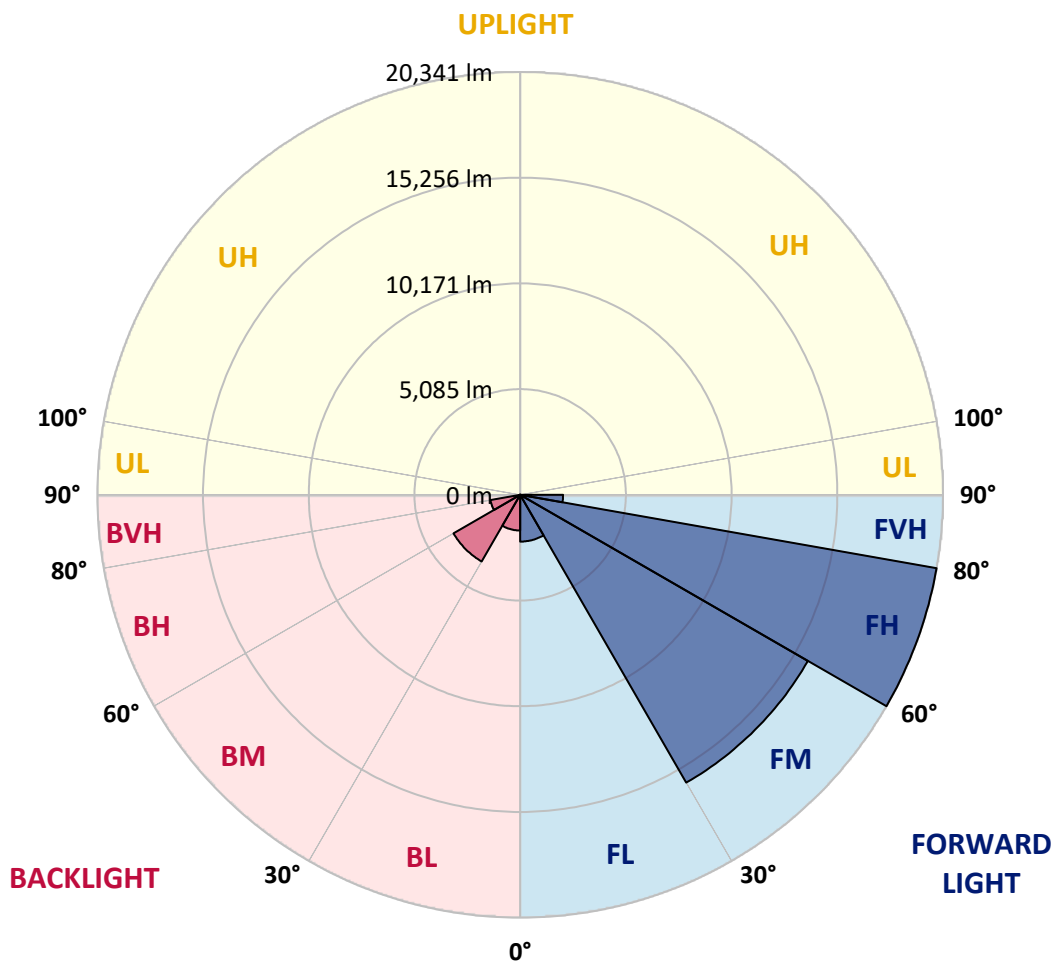
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.6	4.7			
FM	(30°-60°)	15984.8	33.6			
FH	(60°-80°)	20341.4	42.8			G5
FVH	(80°-90°)	2064.8	4.3			G5
BL	(0°-30°)	1717.7	3.6	B3/2500		
BM	(30°-60°)	3701.2	7.8	B3/5000		
BH	(60°-80°)	1453.3	3.1	B3/2500		G3/2500
BVH	(80°-90°)	34.4	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°	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4
2.5°	4807.8	4811.8	4811.8	4805.8	4813.9	4807.8	4793.8	4779.7	4763.7	4699.4	4685.4
5°	4830.0	4840.0	4840.0	4838.0	4850.0	4848.0	4836.0	4823.9	4805.8	4729.5	4703.4
7.5°	4842.0	4852.0	4854.0	4850.0	4874.2	4878.2	4870.1	4870.1	4856.0	4779.7	4741.6
10°	4840.0	4842.0	4848.0	4858.1	4896.2	4906.3	4916.3	4932.4	4932.4	4870.1	4825.9
12.5°	4787.8	4789.8	4809.8	4856.0	4932.4	4948.5	4978.6	5022.8	5044.8	5010.7	4972.5
15°	4751.6	4751.6	4779.7	4852.0	4968.5	4990.6	5054.9	5123.1	5187.5	5183.4	5175.4
17.5°	4783.8	4789.8	4834.0	4896.2	5014.7	5038.8	5123.1	5233.6	5336.1	5380.3	5388.2
20°	4880.2	4886.1	4934.4	4998.7	5101.1	5119.1	5201.5	5334.1	5486.7	5583.0	5639.3
22.5°	5022.8	5026.8	5064.9	5113.2	5213.5	5225.6	5306.0	5448.5	5641.3	5806.0	5904.4
25°	5157.3	5165.3	5199.4	5235.6	5348.0	5358.1	5456.6	5607.2	5832.1	6053.0	6233.8
27.5°	5293.9	5307.9	5350.1	5400.3	5563.0	5567.0	5657.3	5806.0	6073.1	6374.3	6643.5
30°	5597.1	5581.0	5617.2	5683.5	5912.4	5926.4	6016.8	6183.6	6432.5	6772.0	7161.5
32.5°	6113.3	6095.2	6093.2	6191.6	6402.4	6470.7	6569.2	6832.2	7143.5	7480.9	7888.6
35°	7133.4	7105.4	6970.8	6938.6	7063.2	7159.6	7356.3	7741.9	8266.2	9003.2	9467.1
37.5°	8828.4	8792.3	8497.1	8149.7	7971.0	8031.2	8195.9	8730.1	9609.7	11170.2	11630.1
40°	10503.4	10511.5	10153.9	9575.6	9185.9	9198.0	9131.7	9748.2	11057.7	13192.5	13379.2
42.5°	12104.0	12090.0	11652.1	11124.0	10625.9	10527.5	10280.5	10814.7	12413.2	14823.2	14742.9
45°	13523.9	13495.7	13007.7	12712.5	12166.3	12114.0	11718.4	11897.2	13780.9	16120.5	15845.5
47.5°	14879.5	14855.3	14277.0	13997.8	13558.0	13467.6	13096.1	13186.4	15050.2	17140.8	16733.2
50°	16291.3	16339.5	15498.1	15176.7	14773.0	14654.5	14467.7	14522.0	16359.6	18100.8	17490.3
52.5°	18006.4	17763.4	16871.7	16277.2	15953.9	15929.8	15690.9	15805.3	17799.5	18944.2	18165.0
55°	19835.9	19514.6	18637.0	17861.8	17136.8	17179.0	16825.5	16994.2	19092.8	19673.2	18697.3
57.5°	21085.1	21077.1	20844.1	20103.0	18839.8	18751.4	18096.7	18239.3	20225.5	20426.4	19096.9
60°	22280.1	22607.3	22858.4	22527.0	21914.5	21633.4	19801.8	19536.7	21259.8	21107.2	19325.8
62.5°	23083.4	23183.7	24129.7	24408.9	25234.2	25180.0	23209.9	21107.2	22141.4	21549.0	19400.1
65°	22344.3	22426.6	23862.6	25206.1	27658.2	27770.8	26949.3	23699.9	22836.3	21701.7	19247.5
67.5°	20052.9	20113.1	21800.0	24581.5	29005.9	29154.5	28196.5	26405.1	23187.8	21675.5	18727.4
68°	19494.5	19536.7	21288.0	24318.5	29106.2	29186.6	28258.7	26630.0	23215.9	21645.4	18558.6
70°	17098.6	17090.6	18745.4	22755.9	28780.8	28805.0	27899.2	26875.0	23105.4	21360.3	17482.2
72.5°	13220.7	13477.7	14857.4	19167.1	26987.5	27180.3	26708.3	26198.2	22635.5	20207.5	14905.6
75°	9406.8	9607.7	11025.5	14947.8	23296.2	23904.8	24742.2	24929.0	20928.5	17367.7	10981.4
77.5°	6563.1	6775.9	8101.5	11164.1	18831.8	19627.1	21394.4	21671.6	17602.7	13166.4	5603.2
80°	4199.3	4402.2	5619.2	8119.6	14218.8	14897.5	16829.5	16429.8	12318.9	7053.1	982.1
82.5°	2552.6	2654.9	3574.7	5552.9	10362.9	10993.4	11636.1	9866.7	5896.3	998.1	315.3
85°	1449.9	1522.3	2193.0	3586.8	7320.2	7685.8	7830.3	4924.3	1227.0	269.1	180.7
87.5°	385.6	536.2	1184.9	2211.2	3683.3	3588.8	3868.0	1763.2	220.9	116.5	86.4
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°	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4	4705.4
2.5°	4669.3	4665.3	4651.3	4645.2	4651.3	4645.2	4601.0	4605.1	4605.1	4582.9	4568.9
5°	4679.4	4669.3	4625.1	4617.0	4593.0	4554.8	4482.5	4466.4	4452.4	4416.3	4410.2
7.5°	4707.4	4693.3	4623.1	4591.0	4524.7	4456.5	4358.0	4299.8	4271.6	4227.4	4233.5
10°	4789.8	4759.7	4659.2	4597.0	4472.5	4360.0	4217.4	4129.1	4076.8	4010.6	4032.7
12.5°	4938.4	4892.2	4767.6	4659.2	4468.4	4301.8	4099.0	3936.3	3853.9	3777.6	3799.7
15°	5141.3	5091.0	4938.4	4773.7	4520.7	4277.7	3998.5	3741.4	3592.8	3494.4	3500.4
17.5°	5368.2	5324.0	5149.3	4930.3	4601.0	4261.6	3884.0	3538.6	3267.5	3126.9	3122.9
20°	5609.2	5583.0	5392.2	5097.1	4683.4	4225.5	3737.4	3279.5	2906.0	2669.0	2648.9
22.5°	5886.4	5874.3	5651.4	5261.8	4721.5	4143.1	3540.6	2958.2	2462.1	2140.9	2120.8
25°	6249.8	6231.8	5908.4	5376.2	4705.4	4004.5	3265.4	2572.6	1899.9	1530.3	1514.3
27.5°	6687.7	6597.2	6135.3	5434.4	4627.1	3785.6	2906.0	2000.2	1277.3	941.9	933.9
30°	7179.7	7003.0	6334.2	5440.5	4482.5	3480.4	2377.8	1293.3	743.1	530.2	526.1
32.5°	7818.2	7507.1	6549.0	5406.3	4261.6	3068.7	1699.0	741.1	373.5	285.2	285.2
35°	9075.5	8396.6	6824.2	5317.9	3954.4	2480.3	1048.3	359.5	218.9	214.8	216.9
37.5°	10943.3	9836.6	7274.1	5175.4	3544.6	1787.4	538.2	200.9	200.9	208.9	210.9
40°	12592.0	11342.8	7922.8	4974.5	3000.4	1130.7	257.0	188.8	200.9	202.9	206.9
42.5°	13897.4	12551.9	8607.6	4671.3	2361.8	602.4	214.8	182.7	186.8	184.7	192.8
45°	14941.7	13505.8	9135.7	4273.6	1666.9	309.3	222.9	176.7	162.7	162.7	166.7
47.5°	15755.1	14230.7	9467.1	3841.8	1014.2	249.1	222.9	156.7	146.6	148.6	150.6
50°	16470.0	14773.0	9581.6	3309.6	510.1	253.0	214.8	148.6	130.6	132.6	136.5
52.5°	16984.2	15154.6	9495.2	2648.9	281.2	257.0	204.9	136.5	112.5	122.5	126.6
55°	17371.8	15335.4	9210.0	1883.8	255.0	253.0	198.8	122.5	100.4	120.5	126.6
57.5°	17590.6	15395.6	8726.1	1227.0	279.2	222.9	182.7	112.5	94.4	118.5	126.6
60°	17681.0	15285.1	8027.2	718.9	285.2	196.8	170.7	104.4	86.4	98.4	102.4
62.5°	17586.6	15001.9	6998.9	453.8	261.1	186.8	162.7	98.4	72.3	70.3	68.3
65°	17211.1	14301.1	5299.9	363.5	243.0	186.8	152.6	86.4	56.3	42.2	38.2
67.5°	16313.3	12855.1	2998.4	359.5	237.0	182.7	138.5	78.3	44.2	22.0	18.1
68°	16042.2	12439.4	2526.5	365.6	243.0	182.7	136.5	74.3	42.2	18.1	14.1
70°	14389.4	10196.1	871.6	351.5	277.2	192.8	130.6	64.2	34.1	8.1	6.0
72.5°	10957.2	6263.9	385.6	283.2	305.3	200.9	130.6	62.2	28.1	2.0	0.0
75°	6370.3	1542.4	329.3	190.8	255.0	239.0	150.6	72.3	26.1	0.0	0.0
77.5°	1544.4	355.5	287.2	110.4	200.9	261.1	178.7	80.3	28.1	0.0	0.0
80°	367.5	277.2	279.2	70.3	160.7	233.0	154.6	86.4	40.2	0.0	0.0
82.5°	243.0	218.9	249.1	38.2	92.4	172.8	108.4	54.3	50.2	0.0	0.0
85°	164.7	200.9	142.6	22.0	36.1	58.2	44.2	8.1	10.1	0.0	0.0
87.5°	92.4	58.2	24.1	10.1	8.1	6.0	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)