

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: P285854

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285854
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-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K 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: 46701.3 lumens
Efficiency: N/A
Efficacy: 135.0 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

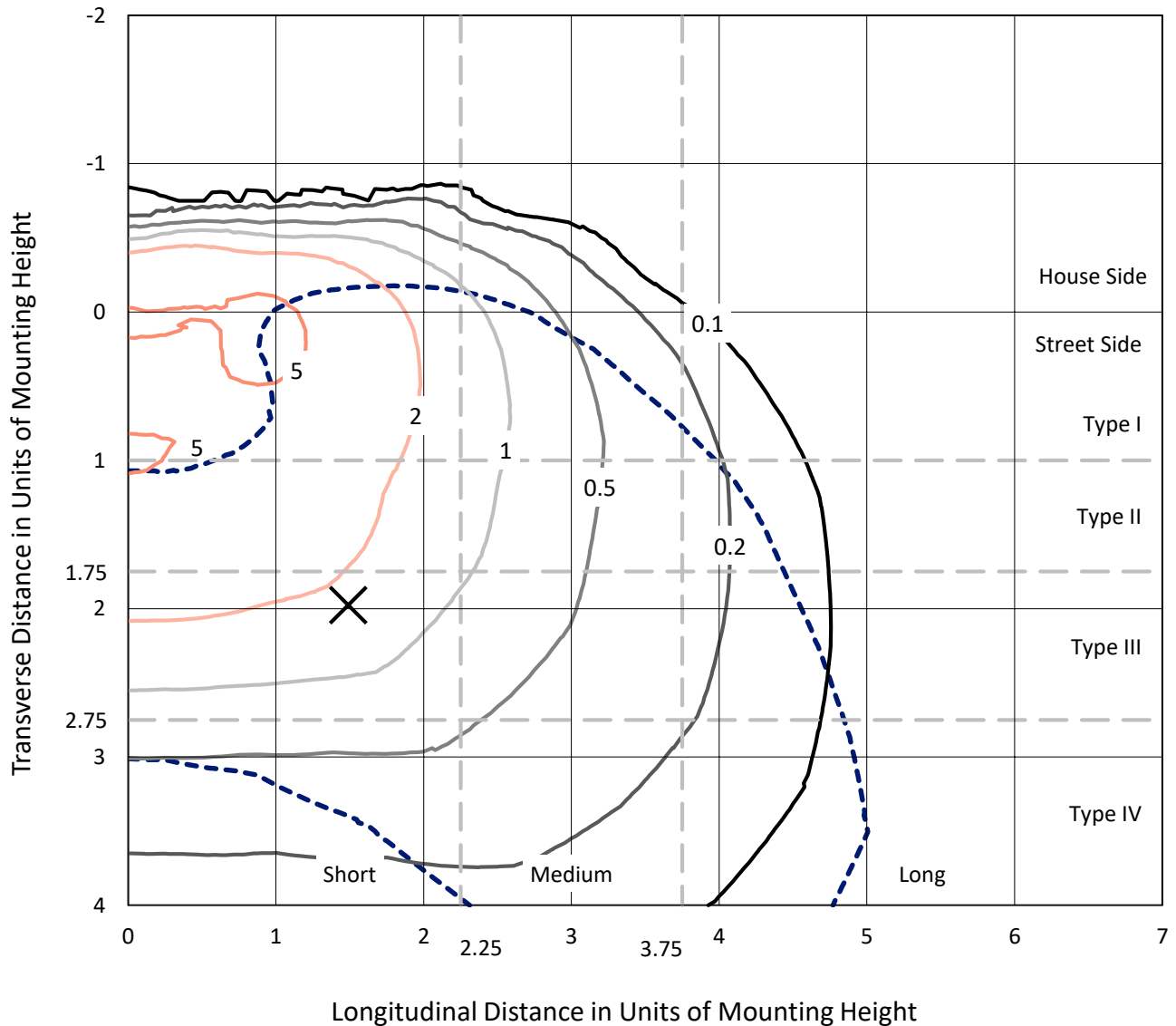
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285854
 CATALOG NUMBER: USSL-XL-C06-D-U-T4-AP-HSS

Iso-Footcandle Lines of Horizontal Illumination

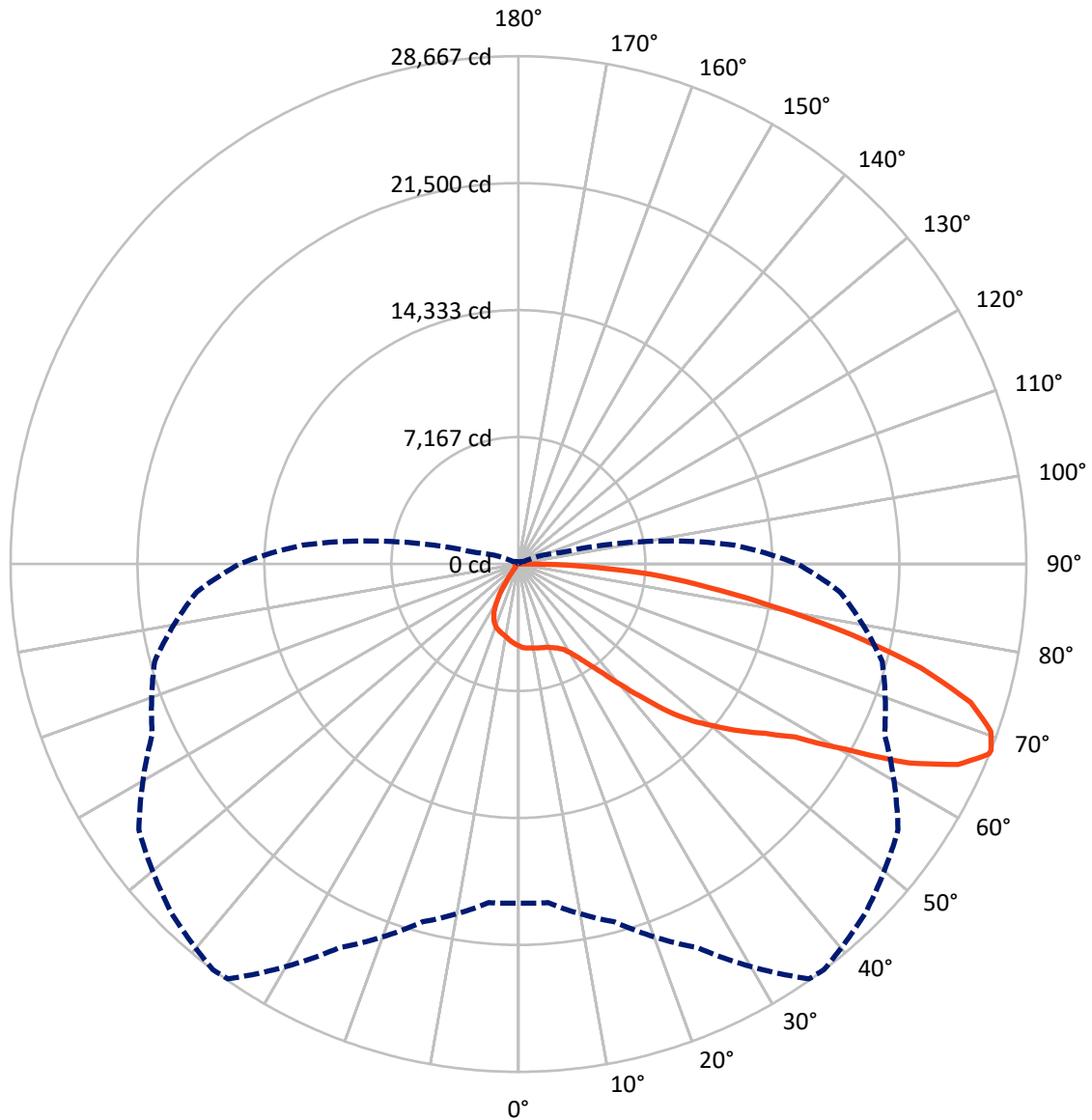
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P285854
CATALOG NUMBER: USSL-XL-C06-D-U-T4-AP-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285854

CATALOG NUMBER: USSL-XL-C06-D-U-T4-AP-HSS

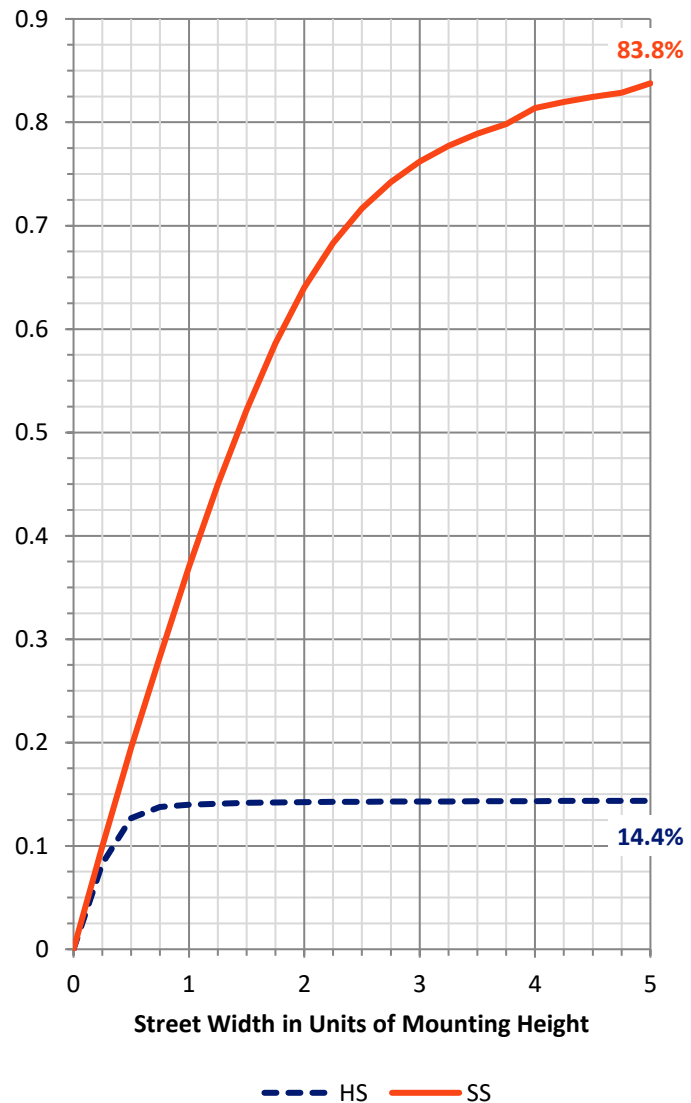
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6783.6	0.0	6783.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	39917.7	0.0	39917.7
	% Fixture	85.5	0.0	85.5
Total	Lumens	46701.3	0.0	46701.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.5	0.9
10°-20°	1295.7	2.8
20°-30°	2165.3	4.6
30°-40°	3517.0	7.5
40°-50°	6353.8	13.6
50°-60°	9464.5	20.3
60°-70°	12329.2	26.4
70°-80°	9077.4	19.4
80°-90°	2061.8	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°	46701.3	100.0
0°-180°	46701.3	100.0



REPORT NUMBER: P285854

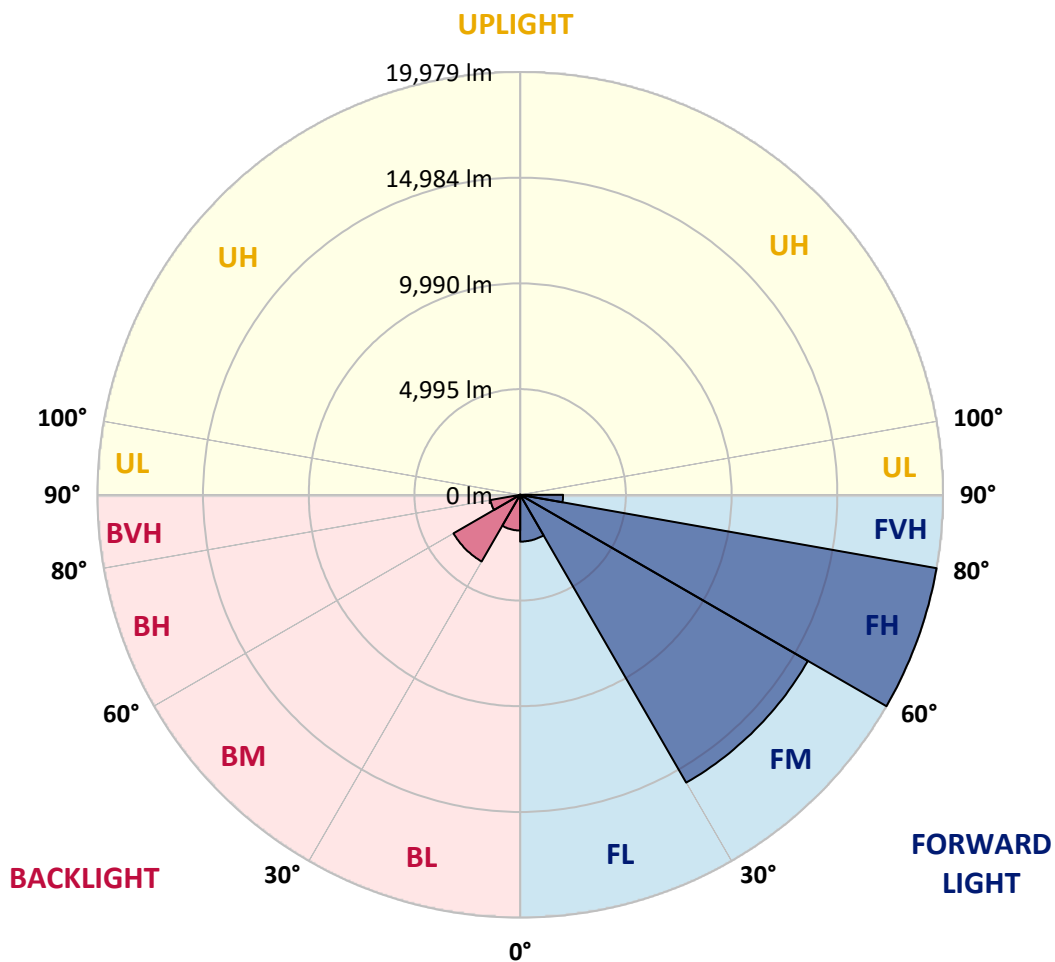
CATALOG NUMBER: USSL-XL-C06-D-U-T4-AP-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2210.5	4.7			
FM	(30°-60°)	15700.1	33.6			
FH	(60°-80°)	19979.1	42.8			G5
FVH	(80°-90°)	2028.0	4.3			G5
BL	(0°-30°)	1687.1	3.6	B3/2500		
BM	(30°-60°)	3635.3	7.8	B3/5000		
BH	(60°-80°)	1427.4	3.1	B3/2500		G3/2500
BVH	(80°-90°)	33.8	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





REPORT NUMBER: P285854

CATALOG NUMBER: USSL-XL-C06-D-U-T4-AP-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6
2.5°	4722.3	4726.2	4726.2	4720.3	4728.1	4722.3	4708.4	4694.6	4678.8	4615.8	4601.9
5°	4743.9	4753.8	4753.8	4751.8	4763.6	4761.7	4749.8	4738.0	4720.3	4645.3	4619.7
7.5°	4755.8	4765.6	4767.6	4763.6	4787.4	4791.3	4783.3	4783.3	4769.6	4694.6	4657.1
10°	4753.8	4755.8	4761.7	4771.6	4809.0	4818.8	4828.8	4844.5	4844.5	4783.3	4740.0
12.5°	4702.5	4704.5	4724.2	4769.6	4844.5	4860.3	4889.8	4933.3	4955.0	4921.4	4884.0
15°	4667.0	4667.0	4694.6	4765.6	4880.0	4901.7	4964.9	5031.9	5095.0	5091.1	5083.2
17.5°	4698.5	4704.5	4747.8	4809.0	4925.4	4949.1	5031.9	5140.4	5241.0	5284.4	5292.3
20°	4793.3	4799.1	4846.5	4909.7	5010.3	5028.0	5108.8	5239.0	5389.0	5483.6	5538.8
22.5°	4933.3	4937.2	4974.7	5022.0	5120.7	5132.6	5211.4	5351.4	5540.8	5702.6	5799.2
25°	5065.5	5073.3	5106.9	5142.4	5252.9	5262.7	5359.4	5507.3	5728.2	5945.2	6122.7
27.5°	5199.6	5213.4	5254.8	5304.2	5463.9	5467.8	5556.6	5702.6	5964.9	6260.8	6525.2
30°	5497.4	5481.7	5517.2	5582.3	5807.1	5821.0	5909.7	6073.4	6318.0	6651.4	7034.0
32.5°	6004.3	5986.6	5984.6	6081.3	6288.4	6355.5	6452.1	6710.5	7016.3	7347.7	7748.1
35°	7006.4	6978.8	6846.6	6815.1	6937.4	7032.0	7225.3	7604.0	8118.9	8842.9	9298.5
37.5°	8671.3	8635.7	8345.8	8004.5	7829.0	7888.1	8049.8	8574.6	9438.5	10971.2	11422.9
40°	10316.3	10324.2	9973.1	9405.0	9022.3	9034.2	8969.1	9574.6	10860.7	12957.5	13141.0
42.5°	11888.4	11874.6	11444.6	10925.9	10436.6	10340.0	10097.3	10622.1	12192.1	14559.2	14480.4
45°	13283.0	13255.4	12776.0	12486.0	11949.5	11898.3	11509.7	11685.3	13535.5	15833.4	15563.3
47.5°	14614.4	14590.8	14022.7	13748.5	13316.5	13227.8	12862.8	12951.7	14782.1	16835.6	16435.1
50°	16001.1	16048.5	15222.0	14906.4	14509.9	14393.5	14210.1	14263.4	16068.2	17778.3	17178.8
52.5°	17685.7	17447.0	16571.2	15987.3	15669.8	15646.0	15411.4	15523.8	17482.5	18606.9	17841.5
55°	19482.7	19167.0	18305.0	17543.7	16831.5	16873.0	16525.9	16691.5	18752.8	19322.8	18364.3
57.5°	20709.6	20701.6	20472.8	19745.0	18504.3	18417.5	17774.4	17914.5	19865.3	20062.5	18756.7
60°	21883.2	22204.7	22451.3	22125.8	21524.2	21248.0	19449.2	19188.7	20881.2	20731.2	18981.6
62.5°	22672.2	22770.9	23699.9	23974.1	24784.8	24731.5	22796.5	20731.2	21747.1	21165.2	19054.6
65°	21946.3	22027.2	23437.6	24757.1	27165.7	27276.1	26469.3	23277.7	22429.6	21315.1	18904.7
67.5°	19695.7	19754.8	21411.8	24143.8	28489.2	28635.2	27694.2	25934.8	22774.8	21289.5	18393.8
68°	19147.3	19188.7	20908.8	23885.4	28587.8	28666.7	27755.4	26155.7	22802.4	21259.9	18228.2
70°	16794.1	16786.2	18411.5	22350.7	28268.3	28291.9	27402.3	26396.4	22693.9	20979.8	17170.8
72.5°	12985.2	13237.6	14592.7	18825.8	26506.8	26696.1	26232.6	25731.6	22232.4	19847.6	14640.1
75°	9239.4	9436.6	10829.2	14681.5	22881.3	23479.0	24301.5	24485.0	20555.7	17058.5	10785.8
77.5°	6446.2	6655.3	7957.2	10965.3	18496.4	19277.5	21013.4	21285.5	17289.2	12931.8	5503.3
80°	4124.6	4323.8	5519.1	7974.9	13965.5	14632.2	16529.8	16137.2	12099.5	6927.5	964.6
82.5°	2507.1	2607.7	3511.1	5454.0	10178.2	10797.6	11428.8	9691.0	5791.3	980.3	309.7
85°	1424.2	1495.2	2154.0	3522.9	7189.8	7548.8	7690.8	4836.6	1205.2	264.3	177.5
87.5°	378.7	526.7	1163.8	2171.7	3617.7	3524.9	3799.1	1731.9	217.0	114.4	84.8
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°	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6	4621.6
2.5°	4586.1	4582.2	4568.4	4562.4	4568.4	4562.4	4519.1	4523.0	4523.0	4501.3	4487.5
5°	4595.9	4586.1	4542.7	4534.9	4511.1	4473.7	4402.7	4386.9	4373.0	4337.5	4331.7
7.5°	4623.6	4609.8	4540.7	4509.2	4444.1	4377.1	4280.4	4223.2	4195.6	4152.2	4158.1
10°	4704.5	4674.9	4576.2	4515.1	4392.9	4282.3	4142.3	4055.5	4004.2	3939.1	3960.8
12.5°	4850.4	4805.1	4682.7	4576.2	4388.8	4225.2	4025.9	3866.2	3785.3	3710.3	3732.0
15°	5049.7	5000.4	4850.4	4688.7	4440.1	4201.4	3927.4	3674.8	3528.8	3432.2	3438.1
17.5°	5272.6	5229.1	5057.5	4842.6	4519.1	4185.7	3814.9	3475.6	3209.3	3071.3	3067.2
20°	5509.3	5483.6	5296.2	5006.2	4600.0	4150.1	3670.9	3221.1	2854.2	2621.5	2601.7
22.5°	5781.4	5769.7	5550.7	5168.1	4637.4	4069.3	3477.5	2905.5	2418.3	2102.7	2083.0
25°	6138.5	6120.7	5803.2	5280.4	4621.6	3933.2	3207.4	2526.8	1866.1	1503.0	1487.3
27.5°	6568.5	6479.7	6026.1	5337.7	4544.7	3718.2	2854.2	1964.6	1254.5	925.1	917.2
30°	7051.8	6878.2	6221.4	5343.6	4402.7	3418.4	2335.5	1270.3	729.8	520.7	516.8
32.5°	7679.1	7373.3	6432.4	5310.0	4185.7	3014.0	1668.7	727.8	366.9	280.1	280.1
35°	8913.9	8247.1	6702.6	5223.3	3883.9	2436.1	1029.7	353.1	215.1	211.0	213.0
37.5°	10748.3	9661.4	7144.5	5083.2	3481.6	1755.5	528.7	197.2	197.2	205.1	207.1
40°	12367.8	11140.8	7781.6	4885.9	2946.9	1110.6	252.5	185.4	197.2	199.3	203.2
42.5°	13649.9	12328.3	8454.3	4588.1	2319.7	591.7	211.0	179.5	183.5	181.5	189.4
45°	14675.6	13265.3	8973.0	4197.5	1637.2	303.8	219.0	173.6	159.7	159.7	163.8
47.5°	15474.4	13977.3	9298.5	3773.5	996.1	244.6	219.0	153.9	144.0	145.9	148.0
50°	16176.7	14509.9	9411.0	3250.7	501.0	248.5	211.0	145.9	128.2	130.2	134.2
52.5°	16681.7	14884.7	9326.1	2601.7	276.1	252.5	201.2	134.2	110.4	120.3	124.2
55°	17062.4	15062.2	9046.0	1850.3	250.6	248.5	195.2	120.3	98.7	118.4	124.2
57.5°	17277.3	15121.4	8570.7	1205.2	274.2	219.0	179.5	110.4	92.7	116.4	124.2
60°	17366.1	15013.0	7884.2	706.2	280.1	193.3	167.7	102.6	84.8	96.7	100.6
62.5°	17273.4	14734.7	6874.3	445.8	256.4	183.5	159.7	96.7	71.0	69.0	67.1
65°	16904.6	14046.3	5205.5	357.1	238.7	183.5	149.9	84.8	55.2	41.4	37.5
67.5°	16022.8	12626.2	2944.9	353.1	232.8	179.5	136.1	76.9	43.3	21.7	17.7
68°	15756.6	12217.8	2481.4	359.0	238.7	179.5	134.2	73.0	41.4	17.7	13.8
70°	14133.1	10014.6	856.1	345.2	272.2	189.4	128.2	63.2	33.5	7.8	5.9
72.5°	10762.1	6152.3	378.7	278.1	299.8	197.2	128.2	61.2	27.7	2.0	0.0
75°	6256.9	1514.9	323.5	187.4	250.6	234.8	148.0	71.0	25.6	0.0	0.0
77.5°	1516.8	349.1	282.0	108.5	197.2	256.4	175.5	78.9	27.7	0.0	0.0
80°	361.0	272.2	274.2	69.0	157.8	228.8	151.9	84.8	39.4	0.0	0.0
82.5°	238.7	215.1	244.6	37.5	90.7	169.7	106.5	53.2	49.3	0.0	0.0
85°	161.7	197.2	140.0	21.7	35.5	57.2	43.3	7.8	9.9	0.0	0.0
87.5°	90.7	57.2	23.6	9.9	7.8	5.9	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)