

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: P285777

Luminaire Tested: **USSL-XL-C04-D-U-T2-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
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-T2-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34219 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

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

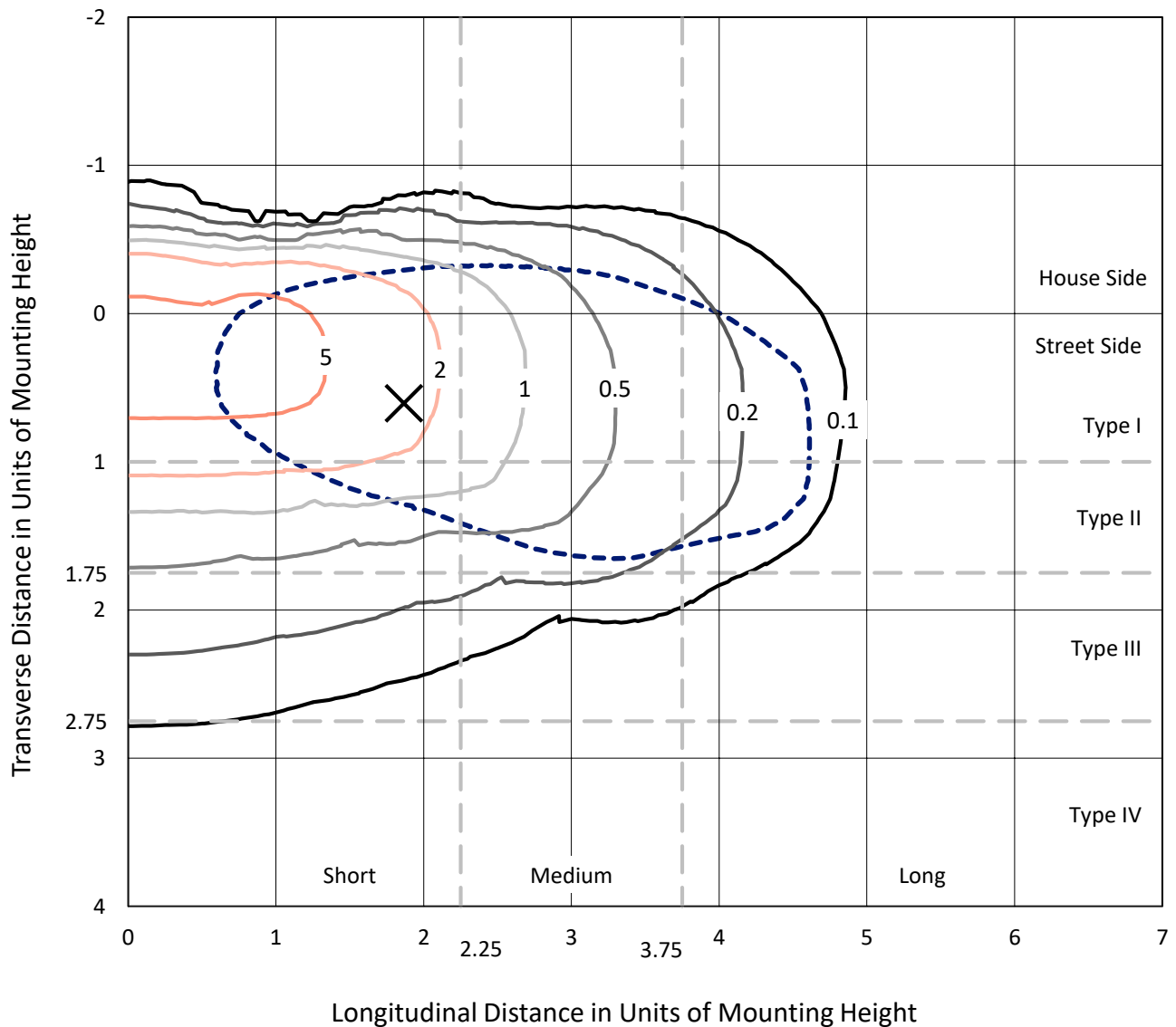


REPORT NUMBER: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

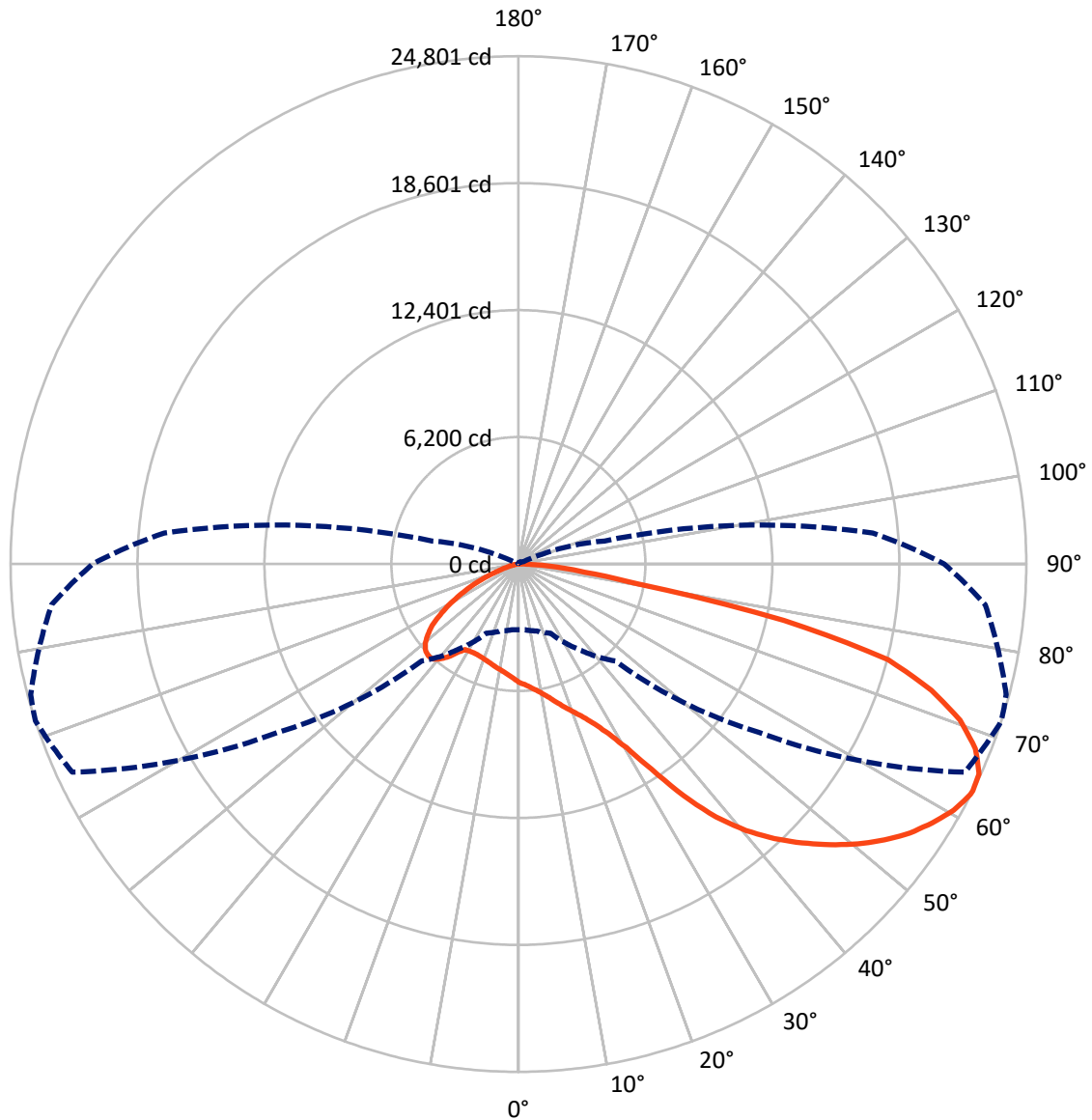


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-BZ-7050-HSS

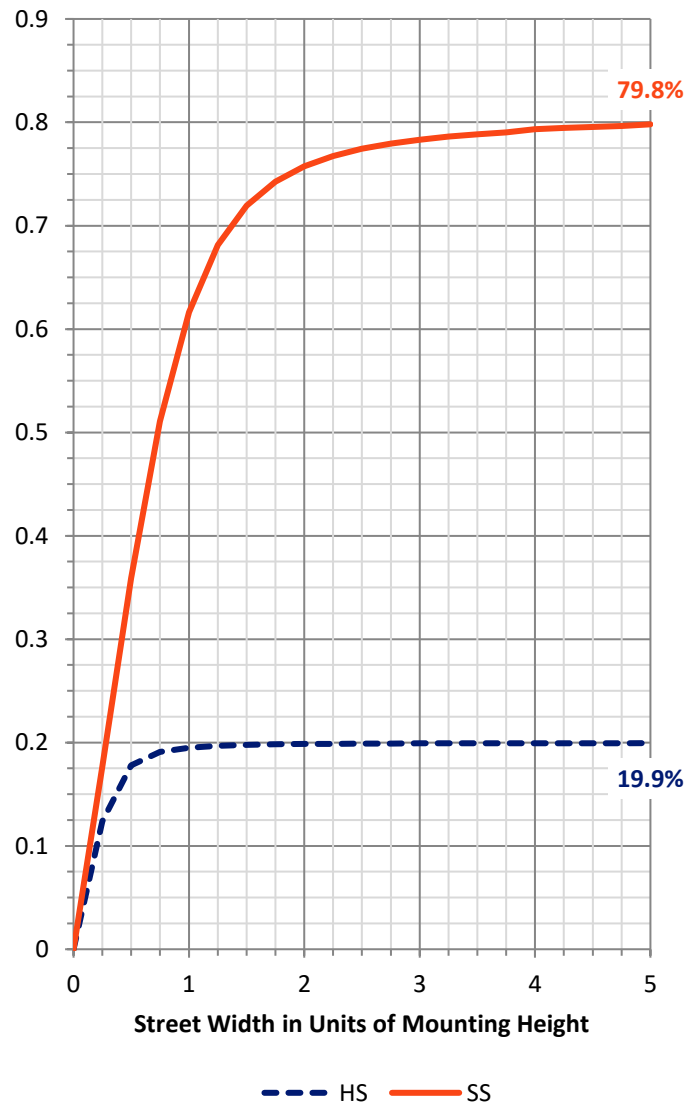
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6903.6	0.0	6903.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27315.4	0.0	27315.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	34219.0	0.0	34219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.0	1.6
10°-20°	1677.0	4.9
20°-30°	2829.6	8.3
30°-40°	4330.5	12.7
40°-50°	6033.0	17.6
50°-60°	6992.3	20.4
60°-70°	6854.9	20.0
70°-80°	4279.8	12.5
80°-90°	668.9	2.0
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°	34219.0	100.0
0°-180°	34219.0	100.0

Coefficient of Utilization



REPORT NUMBER: P285777

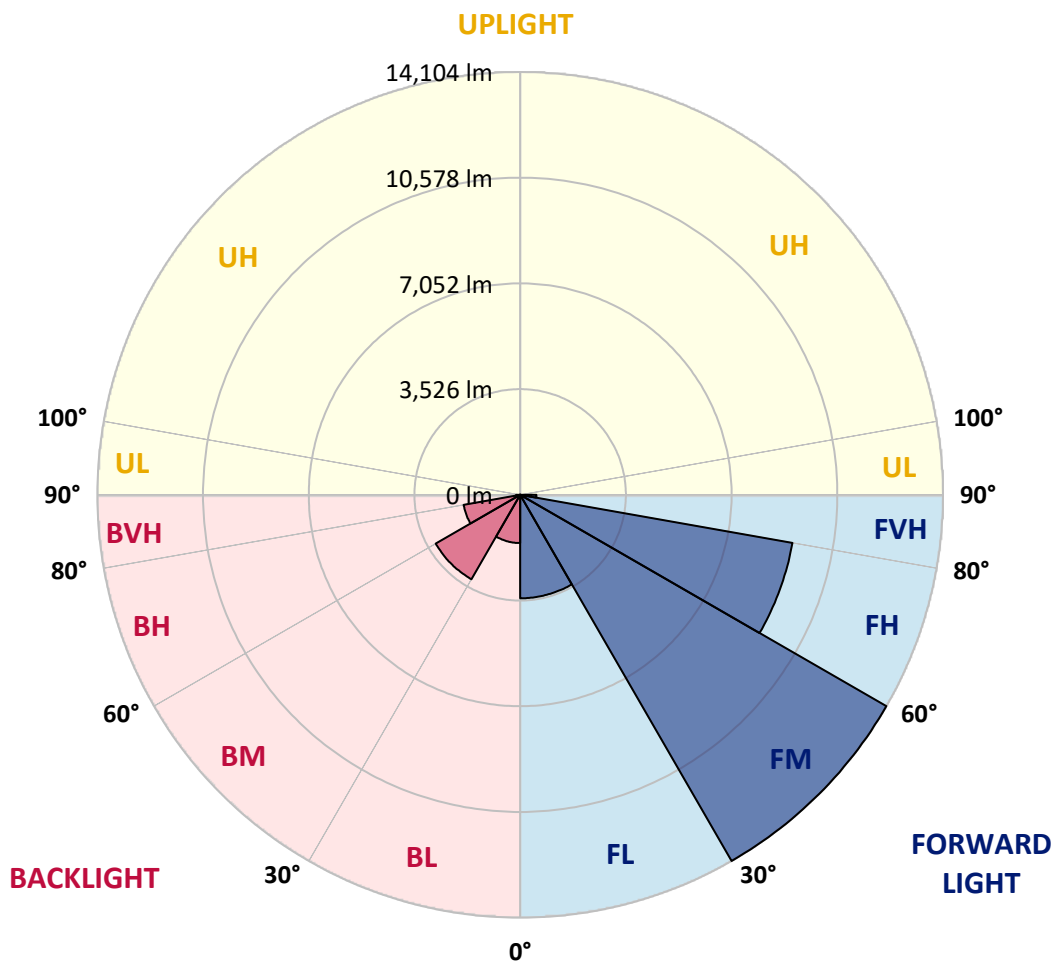
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3450.2	10.1			
FM	(30°-60°)	14103.5	41.2			
FH	(60°-80°)	9220.9	26.9			G4/12000
FVH	(80°-90°)	540.8	1.6			G4/750
BL	(0°-30°)	1609.4	4.7	B3/2500		
BM	(30°-60°)	3252.3	9.5	B3/5000		
BH	(60°-80°)	1913.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	128.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P285777

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0
2.5°	6293.0	6276.0	6257.6	6235.0	6216.6	6160.0	6109.0	6011.4	5891.1	5885.4	5787.8
5°	6721.8	6694.9	6673.7	6634.0	6590.2	6489.7	6372.2	6208.1	6036.9	6010.0	5837.3
7.5°	7079.8	7051.5	7027.4	6976.5	6927.0	6803.9	6652.4	6431.7	6219.4	6165.6	5906.7
10°	7392.5	7364.2	7352.9	7297.7	7262.3	7127.9	6939.7	6700.6	6434.5	6352.4	6011.4
12.5°	7722.3	7692.5	7672.7	7614.7	7572.3	7429.3	7262.3	6994.9	6693.5	6605.7	6161.4
15°	8047.7	8020.8	7975.6	7944.4	7894.9	7746.3	7589.2	7310.5	7010.5	6900.1	6362.3
17.5°	8347.7	8325.1	8291.1	8264.2	8223.2	8069.0	7897.7	7661.4	7354.3	7218.5	6593.0
20°	8568.5	8569.9	8555.8	8541.6	8555.8	8429.8	8291.1	8027.9	7712.4	7553.9	6832.2
22.5°	8758.1	8769.4	8787.8	8809.1	8899.6	8837.4	8670.4	8456.7	8118.5	7931.7	7139.2
25°	8851.5	8860.0	8942.1	9080.8	9284.5	9283.1	9127.5	8973.2	8652.0	8458.1	7566.6
27.5°	8906.7	8918.0	9032.7	9311.4	9670.9	9726.1	9662.4	9594.5	9370.9	9177.0	8131.2
30°	8903.9	8919.4	9096.3	9445.9	9975.1	10255.3	10261.0	10511.4	10405.3	10272.3	9083.6
32.5°	8691.6	8697.3	8943.5	9458.6	10204.4	10725.1	10958.6	11615.2	11943.5	11967.6	10842.6
35°	8187.8	8260.0	8627.9	9344.0	10369.9	11185.0	11789.3	13026.1	13897.8	13938.8	12608.6
37.5°	7825.6	7869.4	8288.3	9138.8	10446.3	11664.8	12743.1	14720.0	15673.8	15573.3	14070.4
40°	7429.3	7483.1	7913.3	8864.3	10398.2	12076.6	13715.3	16345.9	17110.1	16953.0	15315.7
42.5°	6990.6	7035.9	7440.7	8458.1	10245.4	12373.7	14653.5	17751.2	18338.4	18146.0	16447.8
45°	6559.0	6588.8	6972.3	7910.5	9951.1	12554.9	15509.6	19016.3	19428.1	19265.3	17490.8
47.5°	6011.4	6046.8	6516.6	7388.3	9411.9	12549.2	16251.1	20141.3	20485.1	20304.0	18420.5
50°	4635.9	4658.5	5695.8	6914.2	8715.7	12300.1	16886.5	21160.2	21484.2	21277.6	19340.3
52.5°	4200.0	4218.4	4539.7	6324.1	7955.8	11783.6	17304.0	22099.8	22392.7	22172.0	20207.8
55°	3992.0	4004.8	4160.4	5146.8	7289.2	10897.8	17487.9	22970.1	23192.3	22906.4	20912.5
57.5°	3697.7	3723.2	3958.1	4408.1	6636.9	9537.8	17224.7	23673.4	23840.4	23560.2	21598.8
60°	3474.1	3489.7	3687.8	4044.4	5848.7	8016.6	16285.1	24148.9	24420.6	24167.3	22244.1
62.5°	3256.2	3261.8	3427.4	3774.1	5163.7	6880.3	14681.8	24119.2	24777.2	24620.1	22807.3
63°	3209.5	3215.1	3383.5	3724.6	5063.3	6692.1	14330.8	24047.0	24801.2	24658.3	22882.3
65°	3011.4	3019.8	3184.0	3498.2	4627.4	6096.3	12777.0	23602.6	24720.6	24716.3	22982.8
67.5°	2715.6	2731.2	2871.3	3140.1	4033.1	5343.5	10381.3	23128.6	24072.5	24123.4	22421.0
70°	2357.6	2368.9	2527.4	2753.8	3393.4	4536.8	7950.1	21613.0	22880.9	22739.4	21119.1
72.5°	1978.3	1998.1	2149.6	2325.0	2814.7	3743.0	5756.7	19027.6	21092.2	21196.9	18935.6
75°	1726.4	1737.8	1867.9	1992.5	2337.8	2978.8	3850.5	13662.9	18649.7	18676.6	16334.6
77.5°	1432.1	1446.2	1580.7	1698.1	1896.2	2243.0	2656.2	7101.0	13261.0	14013.8	12683.6
80°	789.6	917.0	1139.2	1225.5	1372.7	1362.8	1689.6	3752.9	5868.5	7337.4	8377.5
82.5°	133.0	171.2	459.9	600.0	653.8	574.5	820.8	2066.1	3271.7	3754.3	4508.5
85°	56.6	82.1	240.6	263.2	164.2	159.9	324.1	1081.1	1872.2	2156.6	2323.6
87.5°	7.1	12.7	62.3	82.1	38.2	52.4	65.1	338.2	652.4	750.0	847.7
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°	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0
2.5°	5741.1	5708.6	5633.6	5575.5	5533.1	5475.1	5412.8	5367.5	5319.4	5298.2	5306.7
5°	5749.6	5677.4	5517.5	5391.6	5251.5	5148.2	5013.7	4945.8	4872.2	4835.4	4834.0
7.5°	5772.2	5659.0	5407.1	5209.0	5009.5	4848.2	4672.7	4552.4	4487.3	4439.2	4433.5
10°	5828.8	5667.5	5323.6	5054.8	4797.2	4580.7	4367.0	4211.4	4122.2	4072.7	4079.8
12.5°	5930.7	5698.7	5264.2	4928.8	4597.7	4340.1	4067.0	3884.5	3775.5	3714.7	3731.6
15°	6070.8	5766.6	5203.4	4773.2	4384.0	4081.2	3789.7	3583.1	3461.4	3409.0	3426.0
17.5°	6227.9	5865.6	5160.9	4599.1	4159.0	3816.6	3546.3	3343.9	3140.1	3099.1	3099.1
20°	6403.4	5976.0	5153.8	4433.5	3936.8	3564.7	3253.3	3083.5	2787.8	2687.3	2666.1
22.5°	6635.5	6131.7	5145.3	4282.1	3700.5	3304.3	2922.2	2654.7	2271.3	2098.6	2081.6
25°	6955.3	6346.8	5159.5	4157.6	3485.4	3011.4	2466.5	2037.8	1715.1	1498.6	1487.3
27.5°	7384.0	6634.0	5204.8	4041.6	3270.3	2650.5	1910.4	1453.3	1204.3	1010.4	952.4
30°	8194.9	7088.3	5284.0	3938.3	3019.8	2166.5	1358.5	983.5	805.2	670.8	641.0
32.5°	9744.5	8228.9	5393.0	3823.6	2711.4	1596.2	907.1	656.6	512.3	434.4	451.4
35°	11289.8	9651.1	5912.3	3655.2	2305.2	1062.7	605.7	418.9	322.6	319.8	338.2
37.5°	12682.2	10909.1	6614.2	3467.0	1761.8	714.6	363.7	278.8	270.3	294.3	331.1
40°	13837.0	11930.8	7207.2	3203.8	1209.9	437.3	237.7	253.3	240.6	250.5	246.2
42.5°	14909.6	12850.6	7688.3	2905.2	713.2	251.9	206.6	234.9	216.5	208.0	191.0
45°	15874.7	13718.1	7930.3	2435.4	416.0	200.9	188.2	222.2	209.4	193.9	168.4
47.5°	16753.5	14479.4	8088.8	1792.9	239.2	175.5	175.5	199.5	196.7	178.3	164.2
50°	17664.8	15223.8	8073.2	1101.0	202.4	161.3	167.0	167.0	176.9	138.7	125.9
52.5°	18470.0	15893.1	7750.6	624.1	186.8	152.8	151.4	135.9	144.3	107.5	100.5
55°	19123.8	16413.9	7208.6	411.8	176.9	151.4	133.0	117.5	110.4	77.8	80.7
57.5°	19766.3	16909.2	6379.3	325.5	184.0	145.8	121.7	100.5	86.3	60.8	58.0
60°	20386.1	17304.0	5500.5	292.9	193.9	145.8	100.5	84.9	58.0	46.7	41.0
62.5°	20761.1	17390.3	4528.4	264.6	199.5	135.9	90.6	69.3	42.5	31.1	28.3
63°	20788.0	17364.8	4355.7	260.4	200.9	135.9	90.6	66.5	41.0	28.3	25.5
65°	20746.9	17043.6	3682.1	246.2	205.2	130.2	86.3	53.8	32.5	19.8	17.0
67.5°	20060.6	15969.5	2729.7	230.7	196.7	128.8	79.2	43.9	25.5	12.7	9.9
70°	18380.9	14302.5	1824.1	205.2	189.6	125.9	93.4	36.8	21.2	7.1	5.7
72.5°	16034.6	12503.9	1221.2	168.4	165.6	103.3	56.6	31.1	15.6	2.8	0.0
75°	13552.5	10062.9	755.7	128.8	134.4	87.7	45.3	26.9	12.7	0.0	0.0
77.5°	10549.7	7433.6	537.7	82.1	94.8	75.0	38.2	22.6	9.9	0.0	0.0
80°	7197.3	5037.8	389.2	45.3	49.5	49.5	31.1	17.0	5.7	0.0	0.0
82.5°	4174.6	2823.1	198.1	22.6	21.2	25.5	14.2	8.5	1.4	0.0	0.0
85°	2036.3	1251.0	34.0	12.7	11.3	11.3	5.7	0.0	0.0	0.0	0.0
87.5°	690.6	324.1	4.2	5.7	4.2	1.4	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)