

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: P285771

Luminaire Tested: **USSL-XL-C049-D-U-T2-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285771
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-C049-D-U-T2-AP-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30477.4 lumens
Efficiency: N/A
Efficacy: 140.4 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

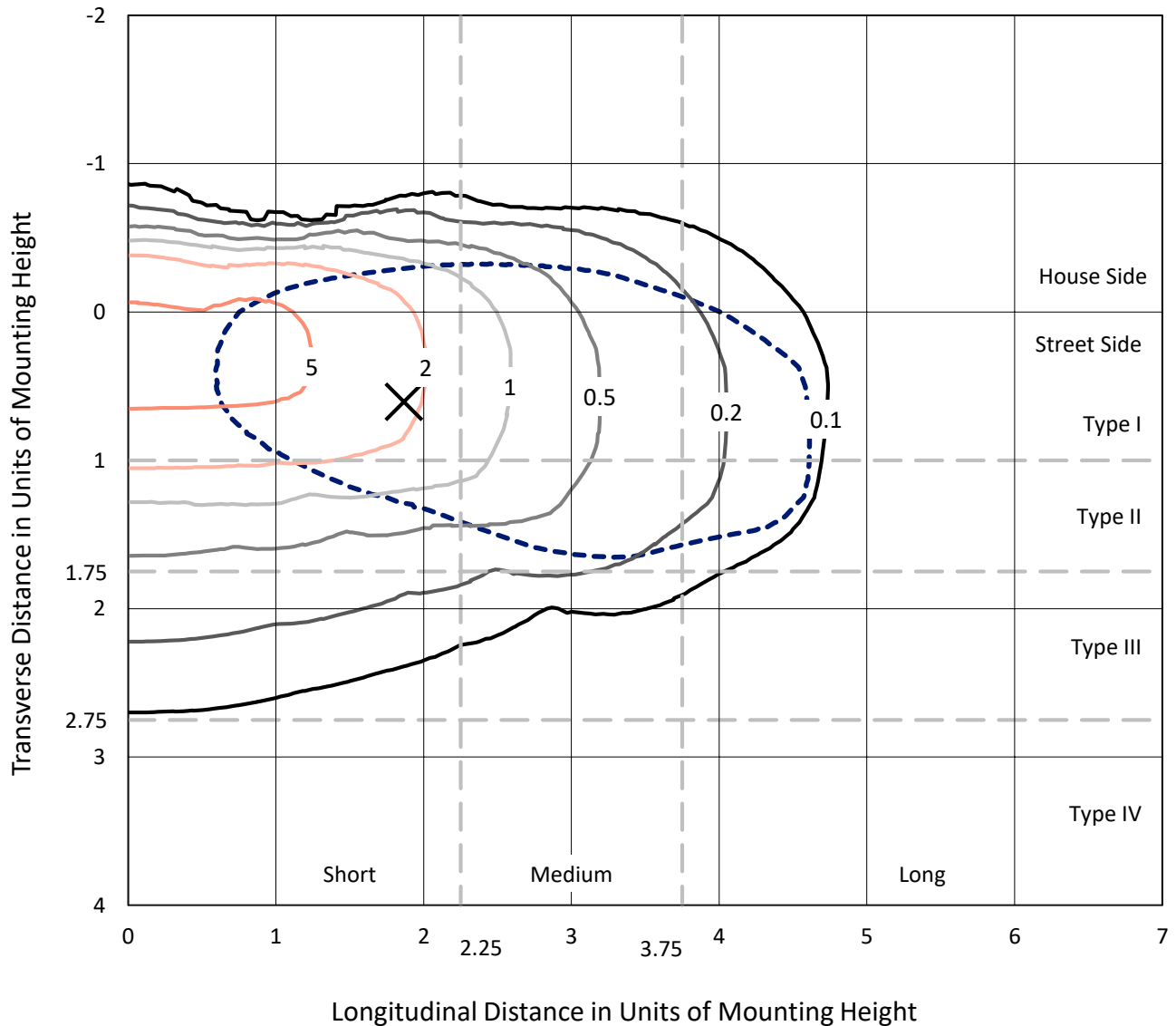
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285771
 CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-HSS

Iso-Footcandle Lines of Horizontal Illumination

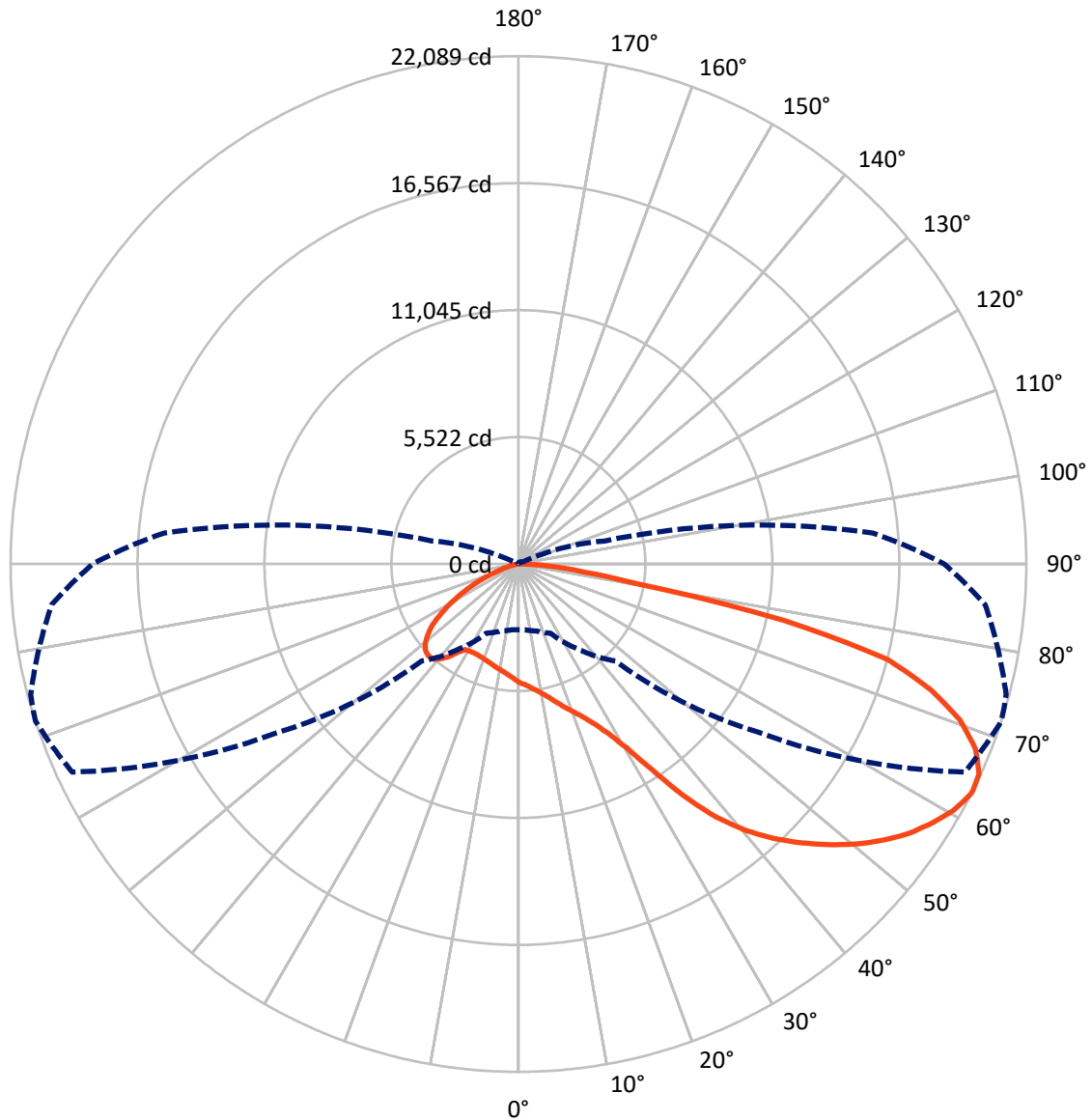
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285771
CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285771

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-HSS

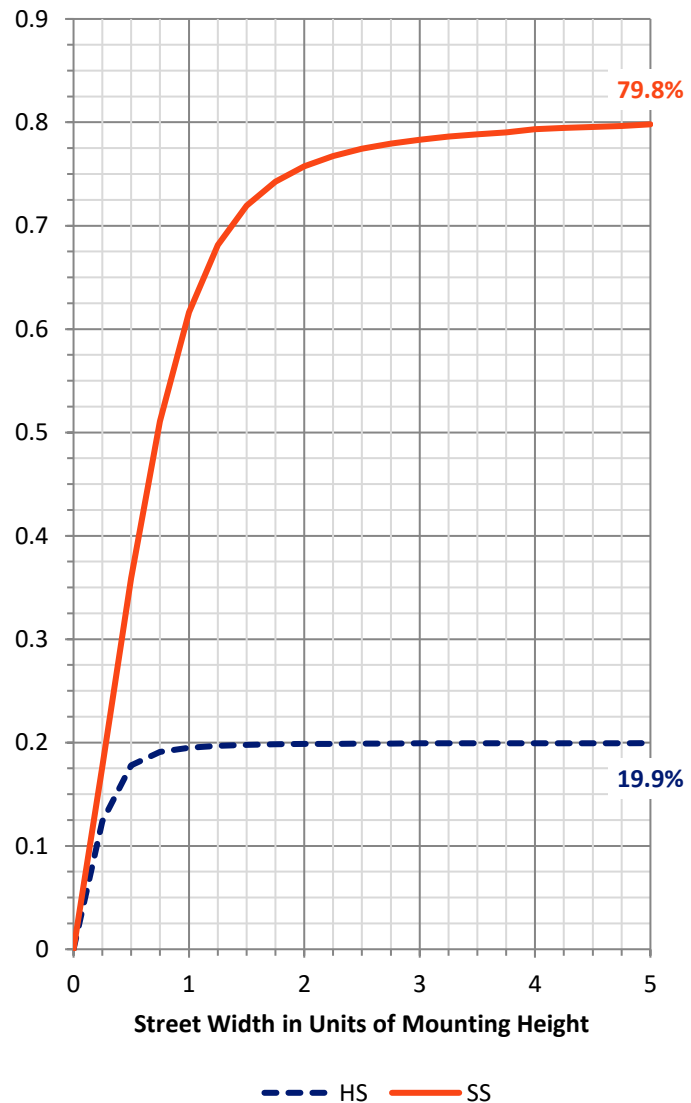
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6148.7	0.0	6148.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	24328.7	0.0	24328.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	30477.4	0.0	30477.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.6	1.6
10°-20°	1493.6	4.9
20°-30°	2520.2	8.3
30°-40°	3857.0	12.7
40°-50°	5373.3	17.6
50°-60°	6227.8	20.4
60°-70°	6105.4	20.0
70°-80°	3811.8	12.5
80°-90°	595.8	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°	30477.4	100.0
0°-180°	30477.4	100.0

Coefficient of Utilization



REPORT NUMBER: P285771

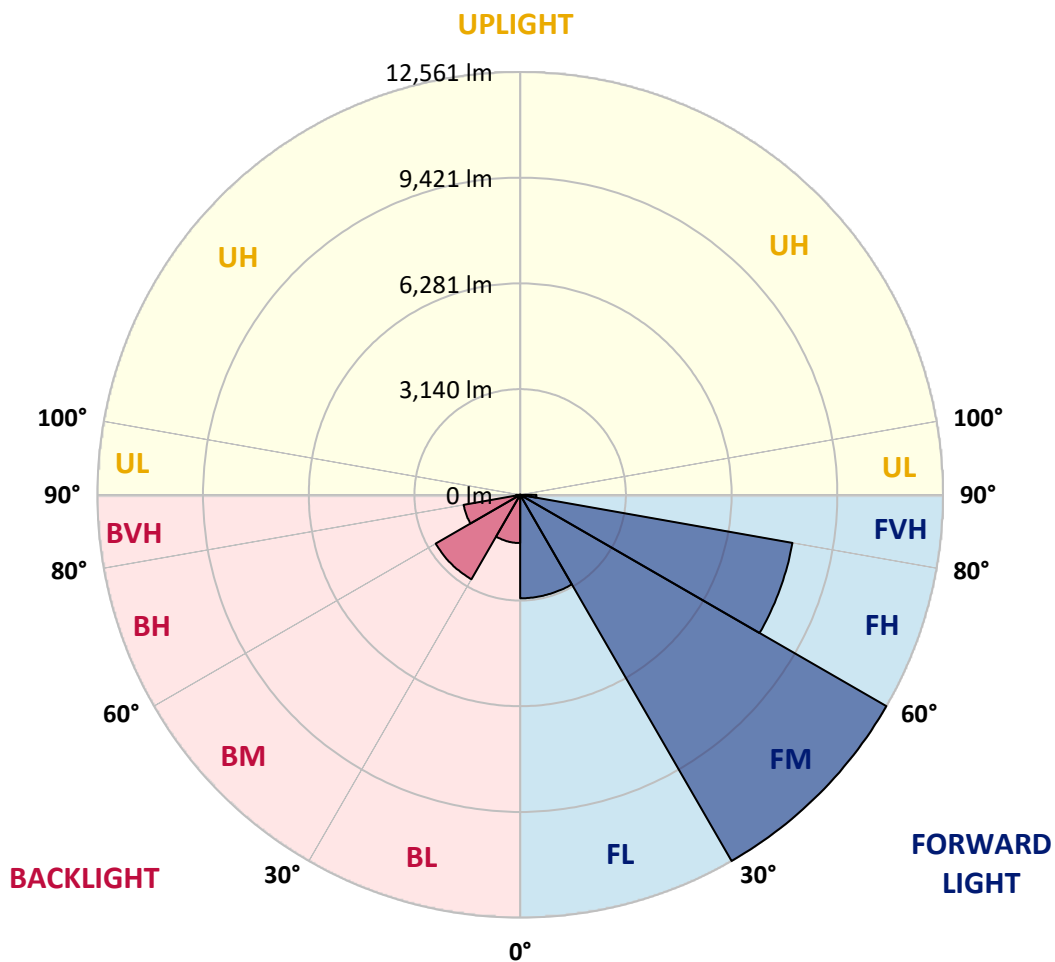
CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3073.0	10.1			
FM	(30°-60°)	12561.4	41.2			
FH	(60°-80°)	8212.7	26.9			G4/12000
FVH	(80°-90°)	481.6	1.6			G3/500
BL	(0°-30°)	1433.4	4.7	B3/2500		
BM	(30°-60°)	2896.7	9.5	B3/5000		
BH	(60°-80°)	1704.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	114.2	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: P285771

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7
2.5°	5604.9	5589.8	5573.4	5553.2	5536.8	5486.5	5441.1	5354.1	5246.9	5241.9	5154.9
5°	5986.8	5962.9	5943.9	5908.6	5869.6	5780.1	5675.4	5529.3	5376.8	5352.8	5199.0
7.5°	6305.7	6280.4	6259.0	6213.7	6169.6	6059.9	5925.1	5728.4	5539.4	5491.4	5260.8
10°	6584.2	6559.0	6548.9	6499.7	6468.3	6348.5	6180.9	5967.9	5731.0	5657.9	5354.1
12.5°	6877.9	6851.4	6833.8	6782.1	6744.2	6617.0	6468.3	6230.1	5961.6	5883.5	5487.7
15°	7167.8	7143.8	7103.4	7075.8	7031.7	6899.3	6759.4	6511.1	6243.9	6145.6	5666.6
17.5°	7435.0	7414.8	7384.5	7360.6	7324.0	7186.7	7034.1	6823.7	6550.2	6429.2	5872.1
20°	7631.6	7632.9	7620.3	7607.6	7620.3	7508.1	7384.5	7150.1	6869.1	6727.9	6085.1
22.5°	7800.4	7810.6	7826.9	7845.9	7926.6	7871.0	7722.3	7532.1	7230.8	7064.4	6358.7
25°	7883.6	7891.3	7964.3	8087.9	8269.3	8268.1	8129.4	7992.1	7706.0	7533.2	6739.3
27.5°	7932.8	7942.9	8045.0	8293.3	8613.4	8662.6	8605.9	8545.3	8346.3	8173.5	7242.2
30°	7930.3	7944.2	8101.8	8413.1	8884.4	9134.0	9139.0	9362.1	9267.6	9149.1	8090.4
32.5°	7741.3	7746.3	7965.6	8424.4	9088.6	9552.5	9760.4	10345.2	10637.6	10659.0	9657.1
35°	7292.5	7356.9	7684.5	8322.3	9236.1	9962.0	10500.2	11601.8	12378.1	12414.7	11230.0
37.5°	6969.9	7009.0	7382.1	8139.5	9304.1	10389.4	11349.7	13110.4	13959.9	13870.5	12531.9
40°	6617.0	6664.9	7048.0	7895.0	9261.3	10756.1	12215.6	14558.7	15239.2	15099.3	13641.1
42.5°	6226.3	6266.7	6627.0	7533.2	9125.1	11020.7	13051.2	15810.2	16333.3	16161.9	14649.4
45°	5841.9	5868.3	6209.8	7045.5	8863.0	11182.1	13813.8	16937.0	17303.7	17158.8	15578.3
47.5°	5354.1	5385.6	5804.0	6580.5	8382.7	11177.1	14474.2	17939.0	18245.2	18083.9	16406.4
50°	4129.1	4149.2	5073.0	6158.2	7762.7	10955.2	15040.1	18846.5	19135.1	18951.1	17225.6
52.5°	3740.8	3757.2	4043.3	5632.6	7085.9	10495.2	15411.9	19683.4	19944.2	19747.6	17998.3
55°	3555.5	3566.9	3705.5	4584.0	6492.2	9706.1	15575.8	20458.5	20656.4	20401.8	18625.9
57.5°	3293.3	3316.1	3525.3	3926.1	5911.2	8495.0	15341.3	21084.9	21233.6	20984.1	19237.2
60°	3094.3	3108.1	3284.5	3602.2	5209.2	7140.0	14504.4	21508.3	21750.4	21524.8	19811.9
62.5°	2900.1	2905.2	3052.6	3361.5	4599.1	6127.9	13076.4	21481.9	22068.0	21928.1	20313.5
63°	2858.6	2863.5	3013.6	3317.3	4509.7	5960.3	12763.8	21417.6	22089.4	21962.1	20380.4
65°	2682.1	2689.6	2835.9	3115.7	4121.4	5429.8	11379.9	21021.8	22017.6	22013.8	20469.8
67.5°	2418.7	2432.6	2557.3	2796.8	3592.1	4759.2	9246.1	20599.7	21440.3	21485.7	19969.5
70°	2099.8	2109.8	2251.0	2452.7	3022.4	4040.8	7080.8	19249.8	20379.1	20253.0	18809.9
72.5°	1762.0	1779.7	1914.5	2070.8	2506.9	3333.7	5127.3	16947.1	18786.0	18879.3	16865.1
75°	1537.7	1547.8	1663.7	1774.6	2082.2	2653.1	3429.5	12168.9	16610.5	16634.5	14548.6
77.5°	1275.5	1288.1	1407.9	1512.5	1689.0	1997.7	2365.7	6324.6	11811.0	12481.6	11296.7
80°	703.2	816.8	1014.6	1091.5	1222.6	1213.8	1504.8	3342.5	5226.8	6535.0	7461.5
82.5°	118.5	152.5	409.7	534.4	582.3	511.7	731.0	1840.2	2914.0	3343.8	4015.5
85°	50.5	73.1	214.3	234.4	146.2	142.5	288.6	962.9	1667.4	1920.9	2069.6
87.5°	6.3	11.3	55.4	73.1	34.0	46.6	58.0	301.2	581.0	667.9	755.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P285771

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7	5158.7
2.5°	5113.4	5084.3	5017.6	4965.9	4928.1	4876.4	4821.0	4780.6	4737.8	4718.9	4726.4
5°	5120.9	5056.7	4914.2	4802.1	4677.2	4585.2	4465.6	4405.1	4339.4	4306.7	4305.4
7.5°	5141.0	5040.2	4815.9	4639.5	4461.8	4318.0	4161.8	4054.6	3996.7	3953.9	3948.8
10°	5191.5	5047.8	4741.6	4502.0	4272.7	4079.9	3889.5	3750.9	3671.5	3627.4	3633.7
12.5°	5282.2	5075.5	4688.6	4389.9	4094.9	3865.6	3622.3	3459.7	3362.7	3308.5	3323.6
15°	5407.1	5136.1	4634.4	4251.3	3904.7	3634.9	3375.3	3191.3	3082.9	3036.3	3051.3
17.5°	5546.9	5224.2	4596.6	4096.2	3704.2	3399.2	3158.5	2978.3	2796.8	2760.2	2760.2
20°	5703.2	5322.6	4590.3	3948.8	3506.4	3174.9	2897.7	2746.4	2482.9	2393.5	2374.6
22.5°	5909.9	5461.2	4582.7	3813.9	3295.9	2943.0	2602.7	2364.4	2022.9	1869.1	1854.0
25°	6194.8	5652.8	4595.3	3703.0	3104.3	2682.1	2196.9	1815.0	1527.5	1334.7	1324.7
27.5°	6576.7	5908.6	4635.7	3599.6	2912.7	2360.7	1701.6	1294.5	1072.6	900.0	848.2
30°	7298.9	6313.3	4706.3	3507.6	2689.6	1929.7	1210.0	876.0	717.1	597.5	571.0
32.5°	8679.0	7329.1	4803.3	3405.6	2414.9	1421.7	807.9	584.9	456.3	387.0	402.0
35°	10055.3	8595.8	5265.9	3255.6	2053.1	946.6	539.5	373.1	287.3	284.8	301.2
37.5°	11295.6	9716.3	5891.0	3087.9	1569.2	636.5	323.9	248.3	240.7	262.1	295.0
40°	12324.0	10626.2	6419.1	2853.5	1077.6	389.4	211.8	225.7	214.3	223.1	219.3
42.5°	13279.4	11445.5	6847.7	2587.5	635.2	224.4	184.0	209.2	192.8	185.3	170.1
45°	14139.0	12218.1	7063.2	2169.1	370.5	179.0	167.7	197.9	186.5	172.7	150.0
47.5°	14921.6	12896.2	7204.4	1597.0	213.0	156.3	156.3	177.7	175.2	158.8	146.2
50°	15733.4	13559.2	7190.5	980.6	180.2	143.7	148.7	148.7	157.5	123.5	112.1
52.5°	16450.5	14155.3	6903.1	555.8	166.4	136.1	134.8	121.0	128.6	95.8	89.5
55°	17032.8	14619.1	6420.3	366.7	157.5	134.8	118.5	104.6	98.4	69.3	71.9
57.5°	17604.9	15060.3	5681.8	289.9	163.9	129.8	108.4	89.5	76.8	54.2	51.7
60°	18157.0	15411.9	4899.1	260.9	172.7	129.8	89.5	75.6	51.7	41.5	36.6
62.5°	18491.0	15488.8	4033.2	235.7	177.7	121.0	80.7	61.8	37.8	27.8	25.2
63°	18515.0	15466.2	3879.4	231.9	179.0	121.0	80.7	59.2	36.6	25.2	22.7
65°	18478.4	15180.0	3279.5	219.3	182.7	116.0	76.8	47.9	29.0	17.6	15.2
67.5°	17867.2	14223.4	2431.3	205.4	175.2	114.7	70.6	39.1	22.7	11.3	8.8
70°	16371.1	12738.6	1624.6	182.7	168.8	112.1	83.2	32.8	18.9	6.3	5.1
72.5°	14281.4	11136.7	1087.7	150.0	147.4	92.0	50.5	27.8	13.9	2.5	0.0
75°	12070.7	8962.5	673.0	114.7	119.8	78.1	40.4	24.0	11.3	0.0	0.0
77.5°	9396.1	6620.8	479.0	73.1	84.5	66.8	34.0	20.1	8.8	0.0	0.0
80°	6410.3	4487.0	346.6	40.4	44.1	44.1	27.8	15.2	5.1	0.0	0.0
82.5°	3718.1	2514.5	176.5	20.1	18.9	22.7	12.6	7.5	1.3	0.0	0.0
85°	1813.7	1114.2	30.2	11.3	10.1	10.1	5.1	0.0	0.0	0.0	0.0
87.5°	615.1	288.6	3.8	5.1	3.8	1.3	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)