

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-AP-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-AP-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 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: 34878.1 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

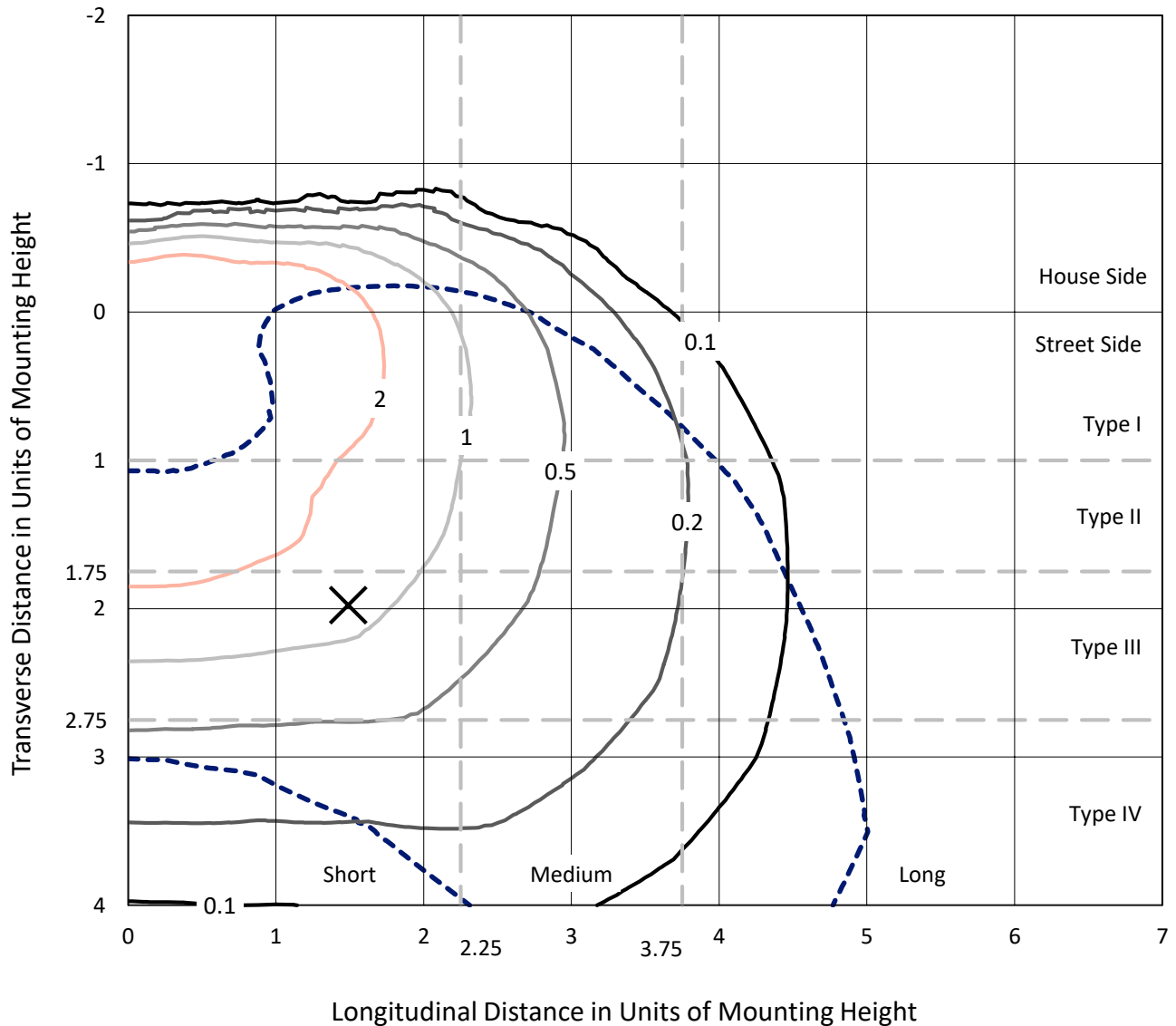
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P285852  
 CATALOG NUMBER: USSL-XL-C04-D-U-T4-AP-HSS

### Iso-Footcandle Lines of Horizontal Illumination

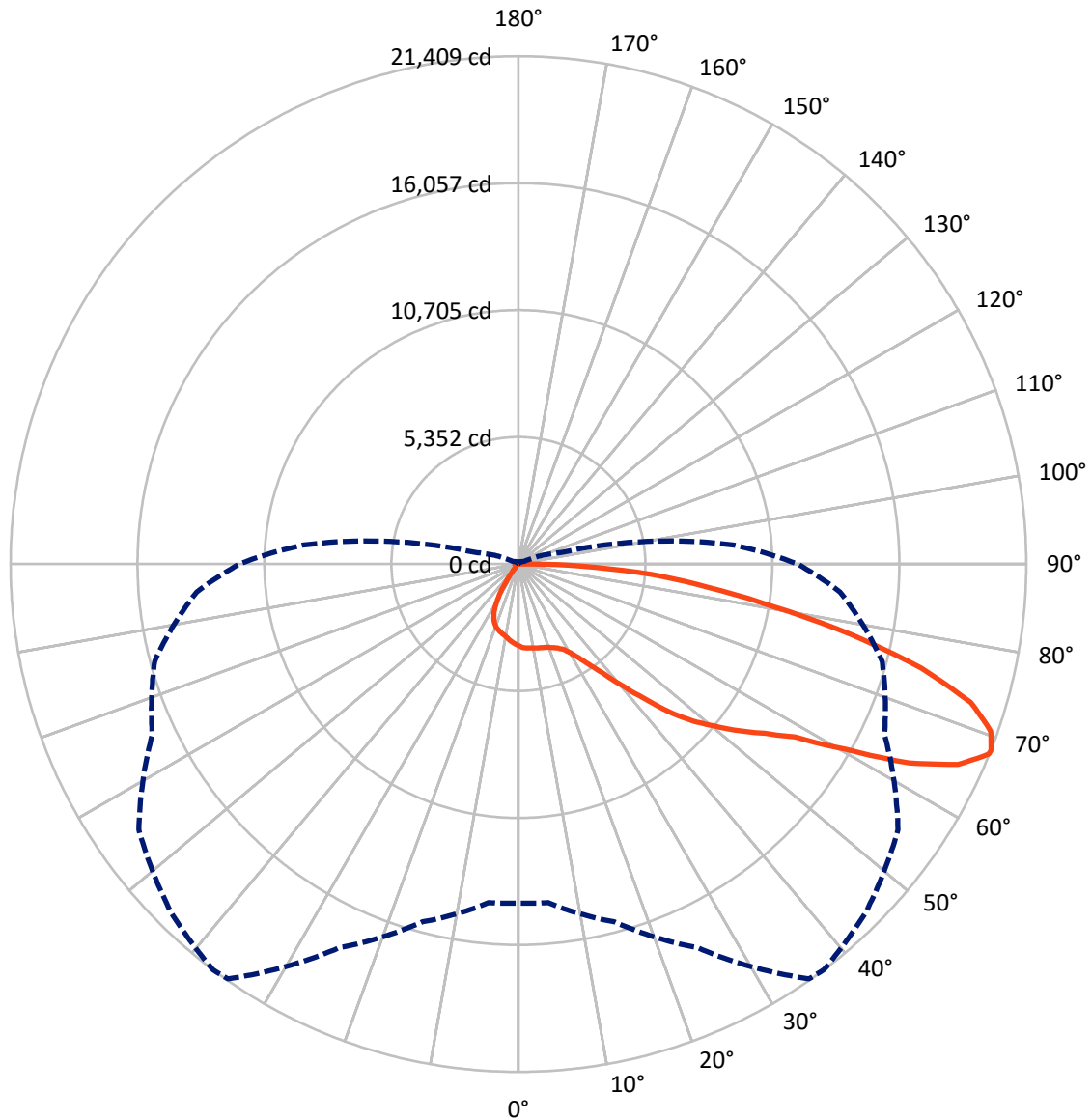
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P285852  
CATALOG NUMBER: USSL-XL-C04-D-U-T4-AP-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P285852

CATALOG NUMBER: USSL-XL-C04-D-U-T4-AP-HSS

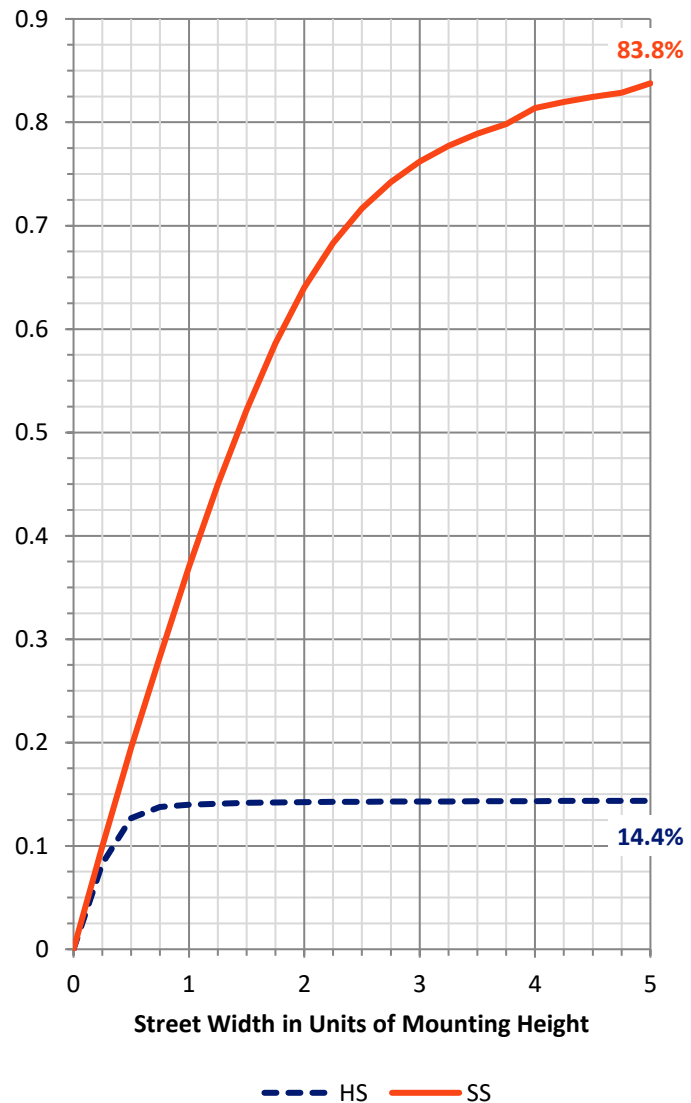
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5066.2	0.0	5066.2
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	29811.9	0.0	29811.9
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	34878.1	0.0	34878.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.0	0.9
10°-20°	967.7	2.8
20°-30°	1617.1	4.6
30°-40°	2626.6	7.5
40°-50°	4745.3	13.6
50°-60°	7068.4	20.3
60°-70°	9207.8	26.4
70°-80°	6779.3	19.4
80°-90°	1539.8	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°	34878.1	100.0
0°-180°	34878.1	100.0



REPORT NUMBER: P285852

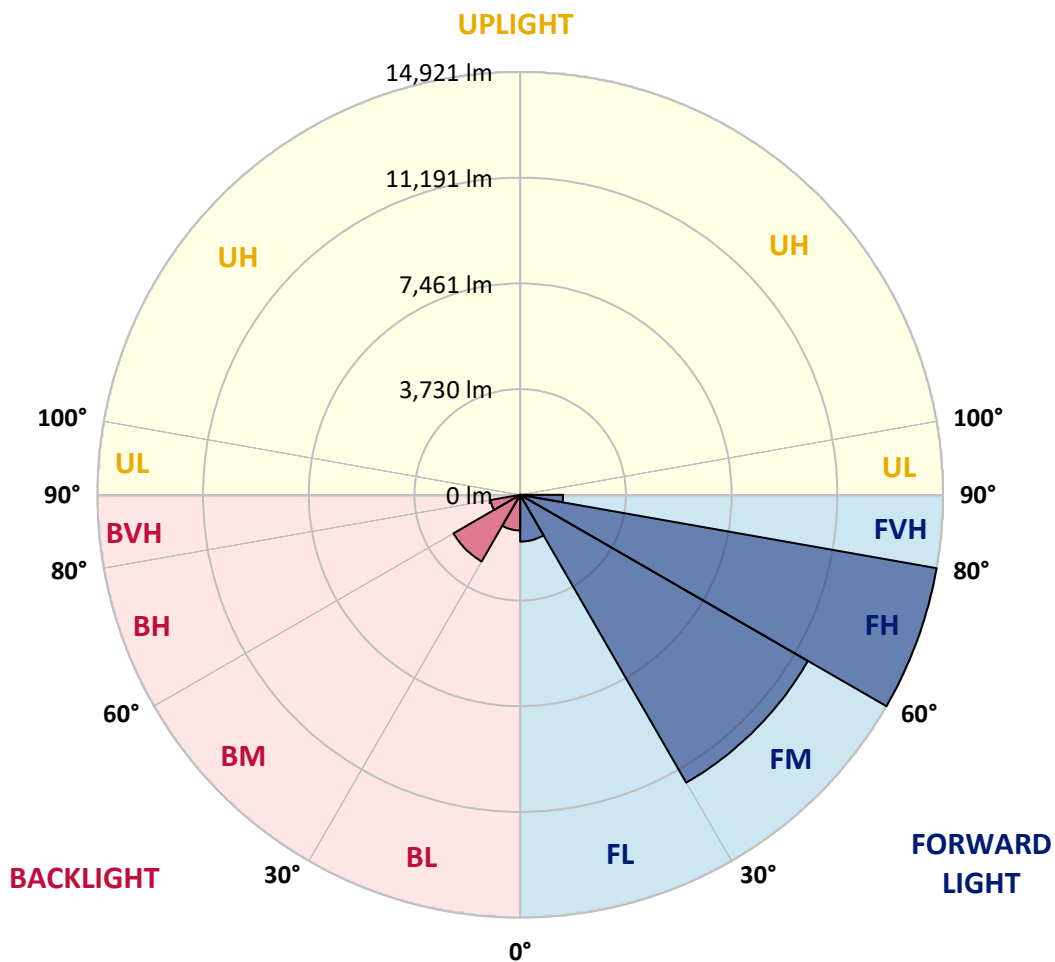
CATALOG NUMBER: USSL-XL-C04-D-U-T4-AP-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1650.9	4.7			
FM	(30°-60°)	11725.4	33.6			
FH	(60°-80°)	14921.1	42.8			G5
FVH	(80°-90°)	1514.6	4.3			G5
BL	(0°-30°)	1260.0	3.6	B3/2500		
BM	(30°-60°)	2714.9	7.8	B3/5000		
BH	(60°-80°)	1066.0	3.1	B3/2500		G3/2500
BVH	(80°-90°)	25.3	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: P285852

CATALOG NUMBER: USSL-XL-C04-D-U-T4-AP-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6
2.5°	3526.7	3529.7	3529.7	3525.2	3531.2	3526.7	3516.4	3506.1	3494.3	3447.2	3436.8
5°	3542.9	3550.2	3550.2	3548.9	3557.7	3556.2	3547.4	3538.5	3525.2	3469.3	3450.1
7.5°	3551.7	3559.1	3560.6	3557.7	3575.4	3578.3	3572.4	3572.4	3562.1	3506.1	3478.1
10°	3550.2	3551.7	3556.2	3563.6	3591.6	3598.9	3606.3	3618.1	3618.1	3572.4	3540.0
12.5°	3512.0	3513.5	3528.2	3562.1	3618.1	3629.8	3652.0	3684.3	3700.5	3675.5	3647.5
15°	3485.5	3485.5	3506.1	3559.1	3644.6	3660.8	3708.0	3758.0	3805.1	3802.2	3796.3
17.5°	3509.0	3513.5	3545.9	3591.6	3678.5	3696.1	3758.0	3839.1	3914.2	3946.5	3952.5
20°	3579.7	3584.2	3619.6	3666.6	3741.8	3755.0	3815.4	3912.7	4024.7	4095.3	4136.6
22.5°	3684.3	3687.3	3715.3	3750.7	3824.3	3833.1	3892.1	3996.7	4138.1	4258.9	4331.1
25°	3783.1	3788.9	3813.9	3840.5	3923.0	3930.3	4002.5	4113.0	4278.1	4440.0	4572.6
27.5°	3883.3	3893.5	3924.5	3961.3	4080.6	4083.6	4149.8	4258.9	4454.8	4675.7	4873.2
30°	4105.6	4093.9	4120.4	4169.0	4337.0	4347.3	4413.5	4535.8	4718.5	4967.4	5253.3
32.5°	4484.2	4471.0	4469.5	4541.7	4696.4	4746.4	4818.6	5011.6	5240.0	5487.5	5786.5
35°	5232.6	5212.0	5113.3	5089.7	5181.1	5251.8	5396.2	5678.9	6063.5	6604.1	6944.5
37.5°	6476.0	6449.5	6232.8	5978.0	5846.9	5891.1	6012.0	6403.8	7049.0	8193.7	8531.0
40°	7704.6	7710.5	7448.2	7024.0	6738.2	6747.0	6698.5	7150.7	8111.2	9677.1	9814.1
42.5°	8878.7	8868.4	8547.2	8159.7	7794.4	7722.2	7541.1	7932.9	9105.5	10873.3	10814.4
45°	9920.2	9899.6	9541.6	9325.0	8924.4	8886.0	8595.8	8726.9	10108.8	11825.0	11623.2
47.5°	10914.5	10896.9	10472.7	10267.9	9945.3	9878.9	9606.4	9672.8	11039.8	12573.4	12274.3
50°	11950.2	11985.6	11368.3	11132.6	10836.5	10749.6	10612.6	10652.3	12000.3	13277.5	12829.7
52.5°	13208.3	13030.0	12375.9	11939.9	11702.7	11685.0	11509.8	11593.7	13056.5	13896.2	13324.6
55°	14550.3	14314.6	13670.8	13102.2	12570.4	12601.4	12342.0	12465.8	14005.2	14431.0	13715.0
57.5°	15466.6	15460.8	15289.8	14746.3	13819.6	13754.9	13274.5	13379.1	14836.1	14983.4	14008.2
60°	16343.1	16583.3	16767.4	16524.4	16075.0	15868.8	14525.3	14330.8	15594.7	15482.8	14176.2
62.5°	16932.4	17006.1	17699.9	17904.7	18510.1	18470.3	17025.2	15482.8	16241.5	15806.9	14230.6
65°	16390.3	16450.7	17503.9	18489.5	20288.2	20370.7	19768.2	17384.7	16751.2	15918.9	14118.7
67.5°	14709.4	14753.6	15991.0	18031.3	21276.8	21385.7	20683.0	19368.9	17009.0	15899.7	13737.2
68°	14299.9	14330.8	15615.4	17838.3	21350.4	21409.2	20728.7	19534.0	17029.6	15877.6	13613.4
70°	12542.4	12536.5	13750.4	16692.3	21111.7	21129.4	20465.0	19713.7	16948.5	15668.4	12823.7
72.5°	9697.8	9886.3	10898.3	14059.8	19796.2	19937.6	19591.4	19217.3	16603.9	14822.8	10933.7
75°	6900.3	7047.6	8087.6	10964.7	17088.6	17534.9	18149.2	18286.2	15351.7	12739.8	8055.1
77.5°	4814.3	4970.4	5942.6	8189.2	13813.7	14397.0	15693.5	15896.8	12912.1	9658.0	4110.1
80°	3080.4	3229.2	4121.8	5955.9	10429.9	10927.8	12345.0	12051.8	9036.3	5173.7	720.4
82.5°	1872.4	1947.5	2622.2	4073.3	7601.5	8064.0	8535.5	7237.6	4325.1	732.2	231.3
85°	1063.6	1116.6	1608.7	2631.1	5369.7	5637.7	5743.8	3612.1	900.1	197.4	132.6
87.5°	282.9	393.3	869.1	1622.0	2701.8	2632.5	2837.2	1293.4	162.1	85.4	63.4
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: P285852

CATALOG NUMBER: USSL-XL-C04-D-U-T4-AP-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6	3451.6
2.5°	3425.1	3422.1	3411.8	3407.4	3411.8	3407.4	3375.0	3377.9	3377.9	3361.7	3351.4
5°	3432.5	3425.1	3392.6	3386.8	3369.1	3341.1	3288.0	3276.3	3266.0	3239.5	3235.0
7.5°	3453.0	3442.8	3391.2	3367.6	3319.0	3268.9	3196.8	3154.1	3133.4	3100.9	3105.4
10°	3513.5	3491.4	3417.8	3372.1	3280.7	3198.2	3093.6	3028.8	2990.5	2941.9	2958.1
12.5°	3622.5	3588.6	3497.2	3417.8	3277.7	3155.5	3006.7	2887.4	2827.0	2771.0	2787.2
15°	3771.2	3734.5	3622.5	3501.7	3316.1	3137.8	2933.1	2744.5	2635.4	2563.3	2567.7
17.5°	3937.7	3905.3	3777.2	3616.6	3375.0	3126.1	2849.1	2595.7	2396.9	2293.7	2290.8
20°	4114.5	4095.3	3955.4	3738.9	3435.3	3099.5	2741.5	2405.7	2131.7	1957.8	1943.1
22.5°	4317.8	4308.9	4145.5	3859.6	3463.3	3039.2	2597.2	2169.9	1806.1	1570.3	1555.6
25°	4584.5	4571.1	4334.0	3943.6	3451.6	2937.5	2395.4	1887.2	1393.6	1122.5	1110.8
27.5°	4905.6	4839.3	4500.4	3986.4	3394.1	2776.9	2131.7	1467.2	937.0	690.9	685.0
30°	5266.5	5136.9	4646.3	3990.7	3288.0	2553.0	1744.2	948.7	545.1	388.9	386.0
32.5°	5735.0	5506.6	4803.9	3965.7	3126.1	2251.0	1246.3	543.6	274.0	209.2	209.2
35°	6657.1	6159.3	5005.8	3900.9	2900.6	1819.3	769.0	263.7	160.6	157.6	159.1
37.5°	8027.2	7215.5	5335.7	3796.3	2600.1	1311.1	394.8	147.3	147.3	153.2	154.6
40°	9236.6	8320.3	5811.5	3649.0	2200.9	829.4	188.6	138.5	147.3	148.8	151.8
42.5°	10194.2	9207.1	6313.9	3426.6	1732.4	442.0	157.6	134.1	137.0	135.6	141.4
45°	10960.2	9906.9	6701.3	3134.9	1222.7	226.8	163.5	129.6	119.3	119.3	122.3
47.5°	11556.8	10438.7	6944.5	2818.2	743.9	182.6	163.5	114.9	107.6	109.1	110.4
50°	12081.3	10836.5	7028.4	2427.7	374.1	185.6	157.6	109.1	95.7	97.2	100.2
52.5°	12458.4	11116.4	6965.0	1943.1	206.3	188.6	150.3	100.2	82.5	89.9	92.8
55°	12742.8	11248.9	6755.9	1381.8	187.1	185.6	145.8	89.9	73.7	88.4	92.8
57.5°	12903.3	11293.1	6400.8	900.1	204.8	163.5	134.1	82.5	69.2	86.9	92.8
60°	12969.6	11212.2	5888.2	527.4	209.2	144.4	125.2	76.6	63.4	72.2	75.1
62.5°	12900.4	11004.4	5133.9	332.9	191.5	137.0	119.3	72.2	53.0	51.5	50.1
65°	12624.9	10490.3	3887.6	266.7	178.3	137.0	111.9	63.4	41.2	30.9	28.0
67.5°	11966.4	9429.6	2199.4	263.7	173.8	134.1	101.6	57.4	32.4	16.2	13.2
68°	11767.5	9124.7	1853.2	268.2	178.3	134.1	100.2	54.5	30.9	13.2	10.3
70°	10555.1	7479.2	639.3	257.8	203.3	141.4	95.7	47.2	25.0	5.9	4.5
72.5°	8037.5	4594.8	282.9	207.7	224.0	147.3	95.7	45.7	20.7	1.5	0.0
75°	4672.8	1131.3	241.6	139.9	187.1	175.3	110.4	53.0	19.2	0.0	0.0
77.5°	1132.8	260.7	210.7	81.0	147.3	191.5	131.1	58.9	20.7	0.0	0.0
80°	269.6	203.3	204.8	51.5	117.9	170.9	113.4	63.4	29.5	0.0	0.0
82.5°	178.3	160.6	182.6	28.0	67.7	126.7	79.6	39.7	36.8	0.0	0.0
85°	120.8	147.3	104.6	16.2	26.5	42.7	32.4	5.9	7.3	0.0	0.0
87.5°	67.7	42.7	17.7	7.3	5.9	4.5	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)