

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: P285810

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C047-D-U-T3-BZ-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23746 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

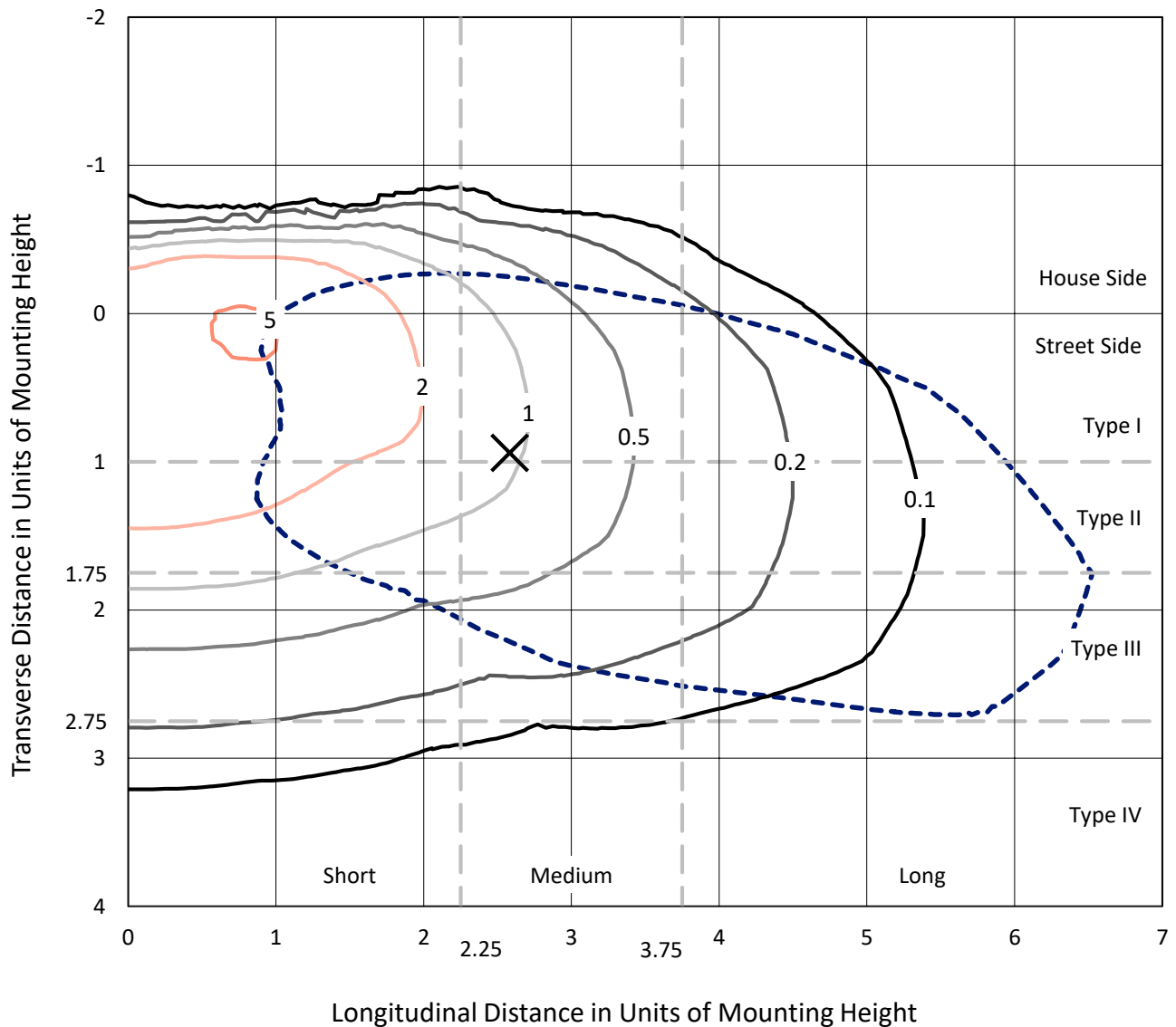
Input Watts (W): 176  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P285810  
 CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-HSS

### Iso-Footcandle Lines of Horizontal Illumination

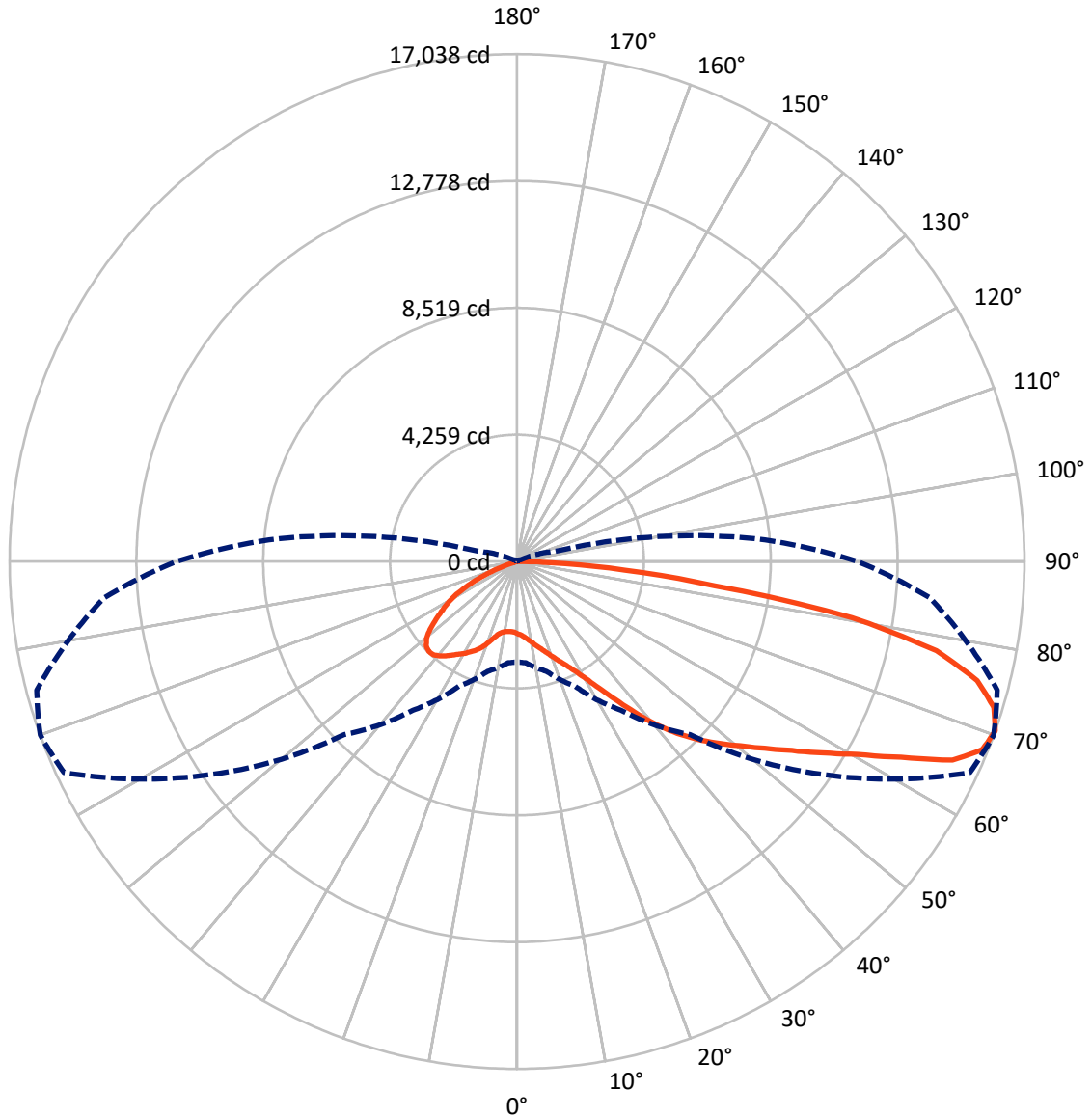
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P285810  
CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P285810

CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-HSS

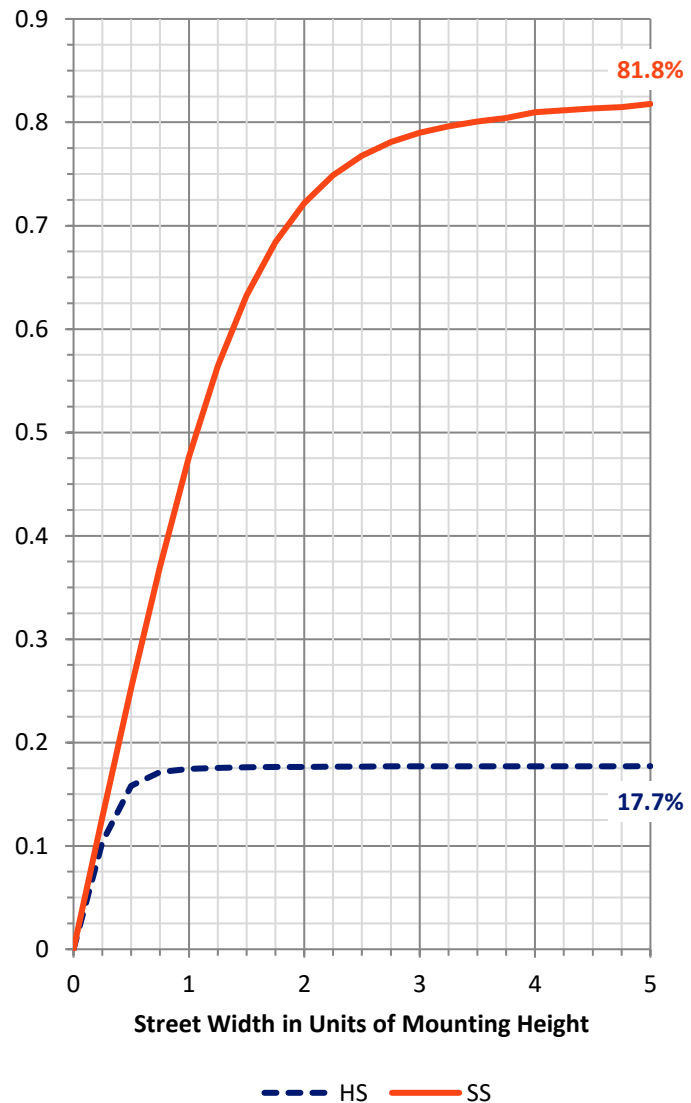
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4255.1	0.0	4255.1
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	19490.9	0.0	19490.9
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	23746.0	0.0	23746.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.6	1.0
10°-20°	737.3	3.1
20°-30°	1342.6	5.7
30°-40°	2282.5	9.6
40°-50°	3590.2	15.1
50°-60°	4846.4	20.4
60°-70°	5669.8	23.9
70°-80°	4219.0	17.8
80°-90°	823.6	3.5
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°	23746.0	100.0
0°-180°	23746.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P285810

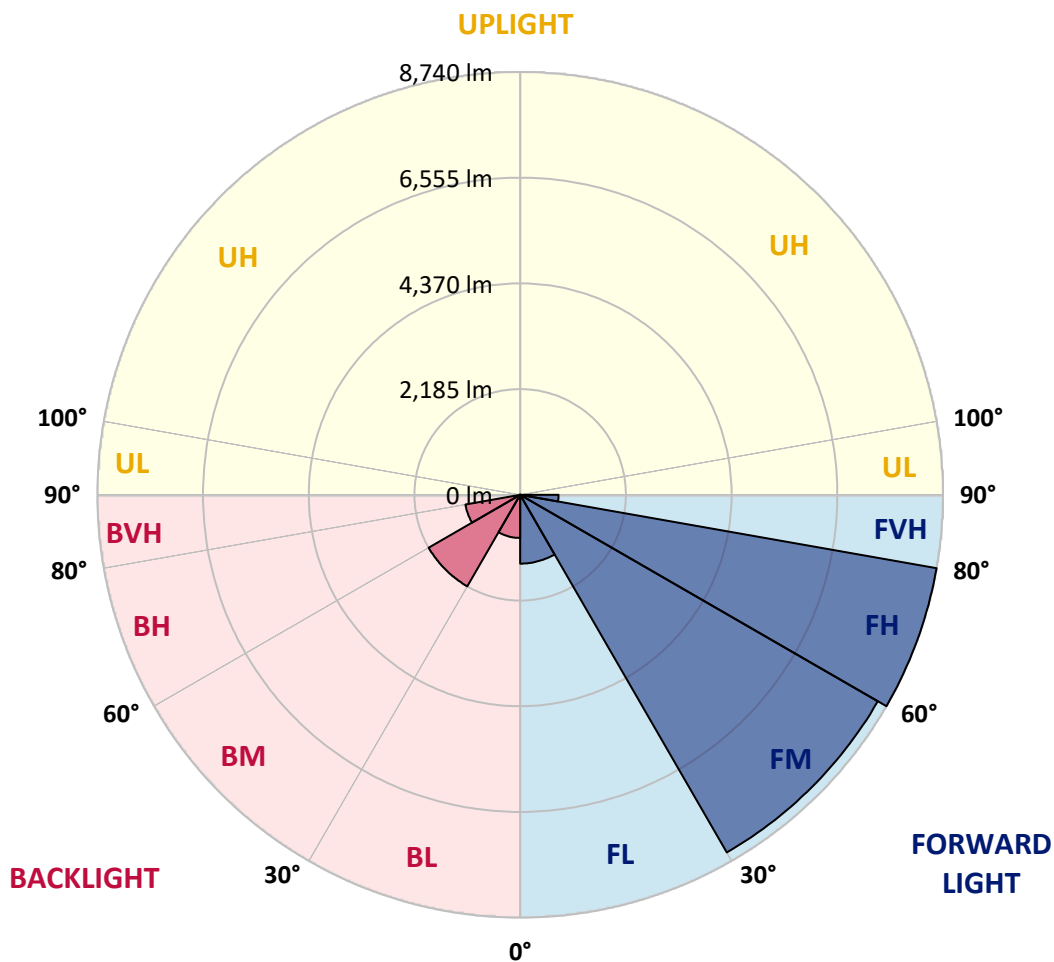
CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1422.5	6.0			
FM	(30°-60°)	8535.3	35.9			
FH	(60°-80°)	8739.6	36.8			G4/12000
FVH	(80°-90°)	793.4	3.3			G5
BL	(0°-30°)	891.9	3.8	B2/1000		
BM	(30°-60°)	2183.9	9.2	B2/2500		
BH	(60°-80°)	1149.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	30.2	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 III Medium





REPORT NUMBER: P285810

CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0
2.5°	2563.0	2561.0	2565.0	2555.0	2561.0	2542.0	2525.0	2501.0	2464.0	2451.0	2426.0
5°	2688.0	2690.0	2689.0	2682.0	2673.0	2653.0	2619.0	2586.0	2542.0	2521.0	2472.0
7.5°	2795.0	2796.0	2800.0	2798.0	2793.0	2767.0	2736.0	2694.0	2641.0	2614.0	2547.0
10°	2880.0	2879.0	2885.0	2894.0	2914.0	2894.0	2853.0	2819.0	2762.0	2726.0	2643.0
12.5°	2936.0	2929.0	2946.0	2971.0	3007.0	3010.0	2983.0	2948.0	2898.0	2856.0	2763.0
15°	2962.0	2959.0	2990.0	3042.0	3094.0	3111.0	3107.0	3081.0	3044.0	3002.0	2901.0
17.5°	3023.0	3022.0	3043.0	3104.0	3165.0	3208.0	3252.0	3248.0	3214.0	3184.0	3079.0
20°	3122.0	3124.0	3124.0	3177.0	3244.0	3320.0	3407.0	3434.0	3407.0	3389.0	3288.0
22.5°	3243.0	3234.0	3228.0	3272.0	3354.0	3460.0	3583.0	3633.0	3629.0	3611.0	3550.0
25°	3413.0	3393.0	3350.0	3405.0	3506.0	3630.0	3774.0	3858.0	3865.0	3870.0	3914.0
27.5°	3683.0	3682.0	3609.0	3613.0	3682.0	3826.0	4002.0	4147.0	4167.0	4223.0	4374.0
30°	4227.0	4172.0	4088.0	3954.0	3931.0	4067.0	4277.0	4499.0	4556.0	4726.9	4909.9
32.5°	4735.9	4695.0	4636.0	4481.0	4292.0	4342.0	4581.0	4909.9	5059.9	5400.9	5567.9
35°	5172.9	5151.9	5107.9	5015.9	4844.9	4715.9	4911.9	5366.9	5682.9	6182.9	6328.9
37.5°	5599.9	5583.9	5554.9	5473.9	5366.9	5173.9	5296.9	5905.9	6419.9	7005.9	7080.9
40°	5974.9	5969.9	5994.9	5944.9	5897.9	5777.9	5741.9	6474.9	7189.9	7807.9	7789.9
42.5°	6302.9	6294.9	6416.9	6350.9	6406.9	6360.9	6285.9	7006.9	7887.9	8465.9	8404.9
45°	6521.9	6517.9	6646.9	6712.9	6870.9	6904.9	6859.9	7558.9	8523.9	9068.9	8934.9
47.5°	6688.9	6677.9	6748.9	7002.9	7294.9	7363.9	7450.9	8174.9	9121.9	9601.9	9439.9
50°	6779.9	6783.9	6929.9	7272.9	7704.9	7863.9	8046.9	8906.9	9729.9	10172.9	9904.9
52.5°	6838.9	6881.9	7096.9	7509.9	8099.9	8378.9	8588.9	9697.9	10418.9	10711.9	10425.9
55°	6880.9	6956.9	7171.9	7637.9	8346.9	8808.9	9115.9	10531.9	11202.9	11387.9	10977.9
57.5°	6609.9	6690.9	7052.9	7660.9	8550.9	9171.9	9719.9	11424.9	12119.9	12136.9	11490.9
60°	6166.9	6216.9	6679.9	7519.9	8521.9	9505.9	10460.9	12482.9	13141.9	13132.9	12124.9
62.5°	5708.9	5734.9	6204.9	7147.9	8357.9	9628.9	11166.9	13904.9	14470.8	14203.8	12770.9
65°	5103.9	5132.9	5617.9	6533.9	7901.9	9545.9	11770.9	15395.8	16074.8	15648.8	13395.9
67.5°	4316.0	4371.0	4818.9	5669.9	7159.9	9107.9	12230.9	16417.8	16854.8	16481.8	13833.9
70°	3366.0	3415.0	3815.0	4617.0	6089.9	8214.9	12444.9	16777.8	17037.8	16695.8	13907.9
72.5°	2397.0	2433.0	2610.0	3281.0	4619.0	6864.9	12241.9	16604.8	16739.8	16312.8	13405.9
75°	1825.0	1796.0	1901.0	2155.0	2702.0	4823.9	11006.9	15822.8	15960.8	15489.8	12426.9
77.5°	1321.0	1298.0	1424.0	1621.0	1885.0	2268.0	7736.9	14216.8	14394.8	14009.9	10764.9
80°	777.0	810.0	977.0	1164.0	1374.0	1511.0	3648.0	10620.9	11404.9	11247.9	7847.9
82.5°	148.0	160.0	406.0	617.0	757.0	801.0	1381.0	5841.9	6695.9	6866.9	4146.0
85°	97.0	105.0	243.0	248.0	242.0	310.0	558.0	2815.0	3615.0	3656.0	1821.0
87.5°	45.0	50.0	74.0	107.0	136.0	163.0	184.0	756.0	1117.0	1143.0	360.0
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: P285810

CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0	2427.0
2.5°	2413.0	2403.0	2382.0	2364.0	2352.0	2345.0	2305.0	2298.0	2283.0	2272.0	2267.0
5°	2449.0	2430.0	2379.0	2344.0	2299.0	2262.0	2195.0	2161.0	2141.0	2120.0	2115.0
7.5°	2510.0	2479.0	2399.0	2336.0	2259.0	2192.0	2098.0	2044.0	2006.0	1976.0	1973.0
10°	2596.0	2547.0	2432.0	2340.0	2229.0	2137.0	2020.0	1933.0	1880.0	1841.0	1839.0
12.5°	2703.0	2636.0	2494.0	2372.0	2229.0	2102.0	1963.0	1847.0	1769.0	1716.0	1710.0
15°	2837.0	2757.0	2597.0	2447.0	2278.0	2116.0	1924.0	1768.0	1654.0	1569.0	1565.0
17.5°	3004.0	2921.0	2765.0	2596.0	2371.0	2138.0	1895.0	1675.0	1510.0	1409.0	1398.0
20°	3215.0	3176.0	3016.0	2769.0	2467.0	2149.0	1830.0	1546.0	1322.0	1192.0	1175.0
22.5°	3517.0	3495.0	3266.0	2917.0	2522.0	2115.0	1723.0	1340.0	1068.0	928.0	915.0
25°	3895.0	3819.0	3490.0	3027.0	2532.0	2040.0	1542.0	1077.0	773.0	634.0	629.0
27.5°	4289.0	4151.0	3684.0	3104.0	2503.0	1889.0	1288.0	766.0	482.0	393.0	394.0
30°	4785.9	4524.0	3904.0	3177.0	2436.0	1684.0	955.0	477.0	303.0	249.0	242.0
32.5°	5358.9	4995.9	4124.0	3206.0	2311.0	1394.0	606.0	293.0	190.0	162.0	159.0
35°	6027.9	5579.9	4407.0	3209.0	2105.0	1036.0	363.0	172.0	129.0	130.0	132.0
37.5°	6725.9	6198.9	4751.9	3173.0	1848.0	648.0	205.0	111.0	111.0	132.0	139.0
40°	7357.9	6790.9	5117.9	3092.0	1486.0	377.0	116.0	96.0	102.0	124.0	130.0
42.5°	7937.9	7302.9	5452.9	2966.0	1061.0	204.0	100.0	87.0	92.0	102.0	105.0
45°	8439.9	7747.9	5693.9	2763.0	644.0	126.0	92.0	79.0	78.0	85.0	87.0
47.5°	8872.9	8145.9	5856.9	2473.0	337.0	120.0	89.0	72.0	67.0	70.0	71.0
50°	9316.9	8440.9	5917.9	2066.0	173.0	113.0	83.0	67.0	62.0	71.0	72.0
52.5°	9765.9	8883.9	5925.9	1497.0	137.0	102.0	76.0	62.0	60.0	79.0	82.0
55°	10202.9	9206.9	5810.9	867.0	133.0	95.0	69.0	56.0	58.0	60.0	60.0
57.5°	10663.9	9593.9	5568.9	379.0	129.0	87.0	64.0	51.0	43.0	48.0	50.0
60°	11157.9	9927.9	5081.9	219.0	123.0	78.0	55.0	42.0	36.0	36.0	39.0
62.5°	11656.9	10172.9	4285.0	160.0	117.0	73.0	48.0	37.0	30.0	30.0	32.0
65°	11980.9	10009.9	3305.0	142.0	113.0	66.0	42.0	32.0	24.0	23.0	25.0
67.5°	11921.9	9385.9	2328.0	127.0	103.0	60.0	37.0	28.0	21.0	17.0	18.0
70°	11432.9	8365.9	1291.0	119.0	92.0	55.0	33.0	25.0	17.0	11.0	11.0
72.5°	10531.9	7029.9	496.0	107.0	82.0	48.0	30.0	24.0	15.0	6.0	5.0
75°	9186.9	5349.9	179.0	90.0	68.0	44.0	29.0	25.0	14.0	2.0	0.0
77.5°	7202.9	2994.0	106.0	67.0	51.0	38.0	31.0	25.0	8.0	0.0	0.0
80°	3869.0	1081.0	75.0	43.0	34.0	28.0	28.0	20.0	4.0	0.0	0.0
82.5°	1606.0	243.0	48.0	24.0	23.0	18.0	18.0	9.0	1.0	0.0	0.0
85°	455.0	71.0	22.0	13.0	13.0	10.0	5.0	0.0	0.0	0.0	0.0
87.5°	39.0	15.0	6.0	7.0	5.0	2.0	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)