

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: P285748

Luminaire Tested: **USSL-XL-C069-D-U-T2-AP-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C069-D-U-T2-AP-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43029.8 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 285  
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

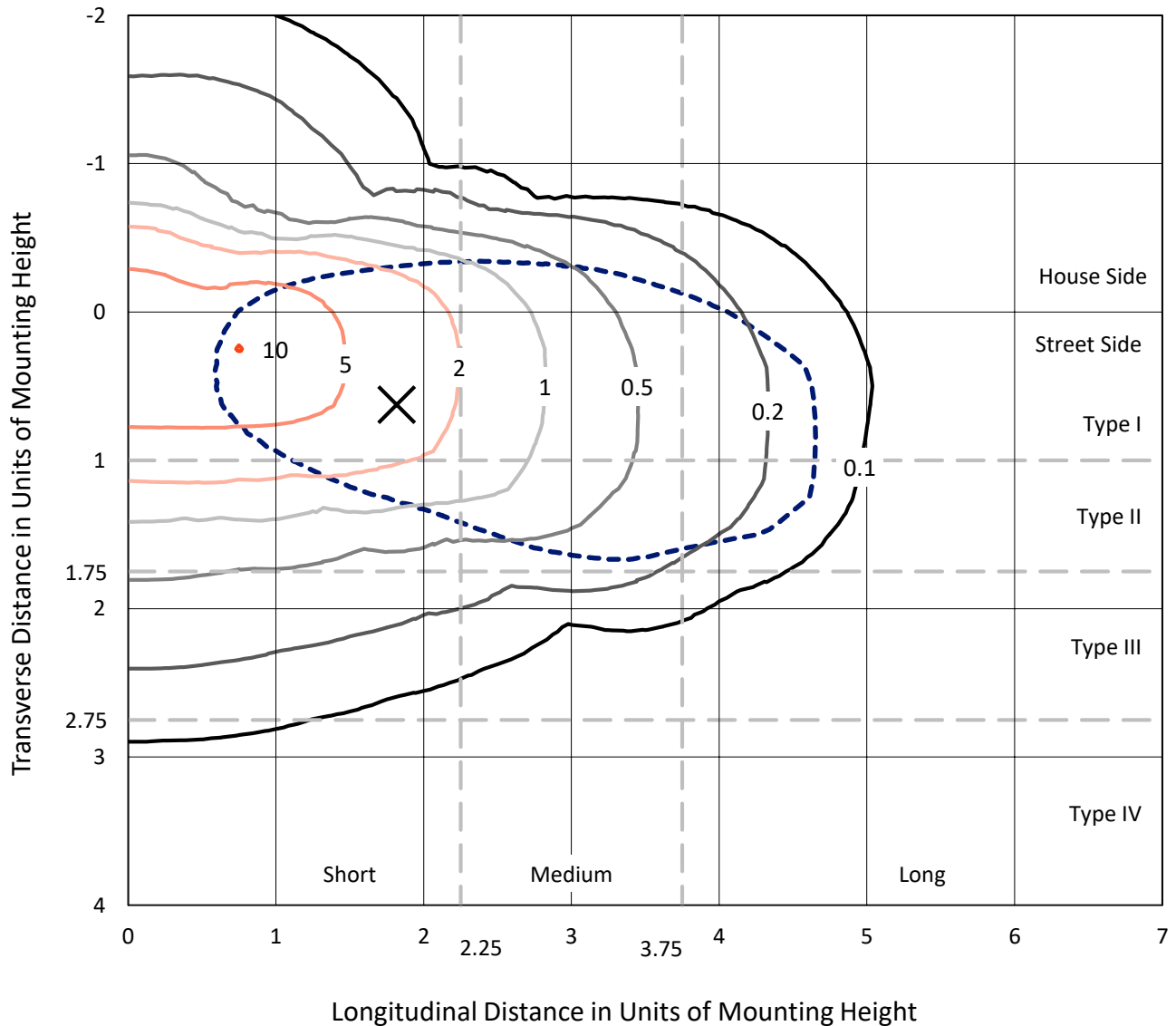


REPORT NUMBER: P285748

CATALOG NUMBER: USSL-XL-C069-D-U-T2-AP-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

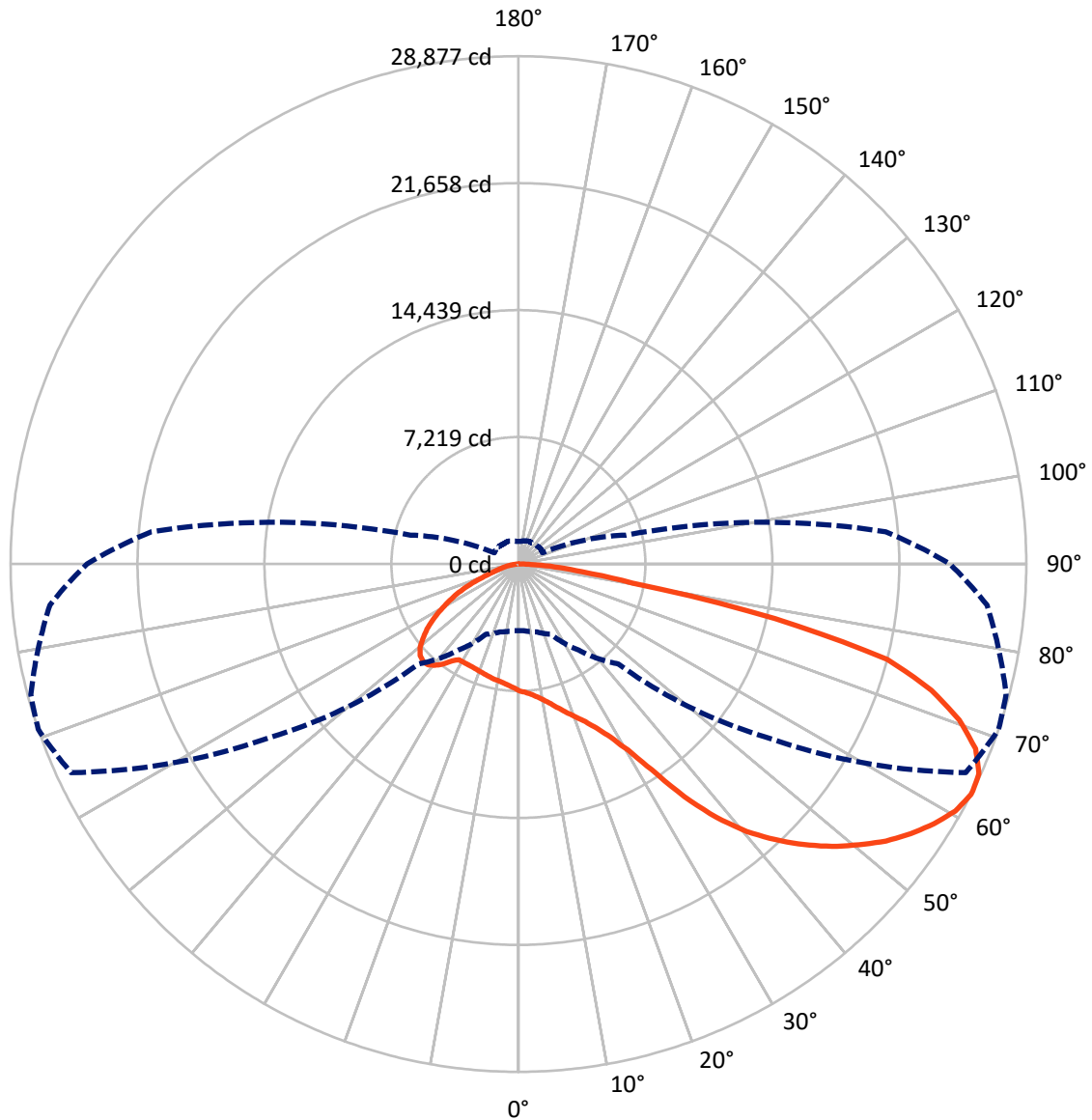


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285748

CATALOG NUMBER: USSL-XL-C069-D-U-T2-AP-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P285748

CATALOG NUMBER: USSL-XL-C069-D-U-T2-AP-7030

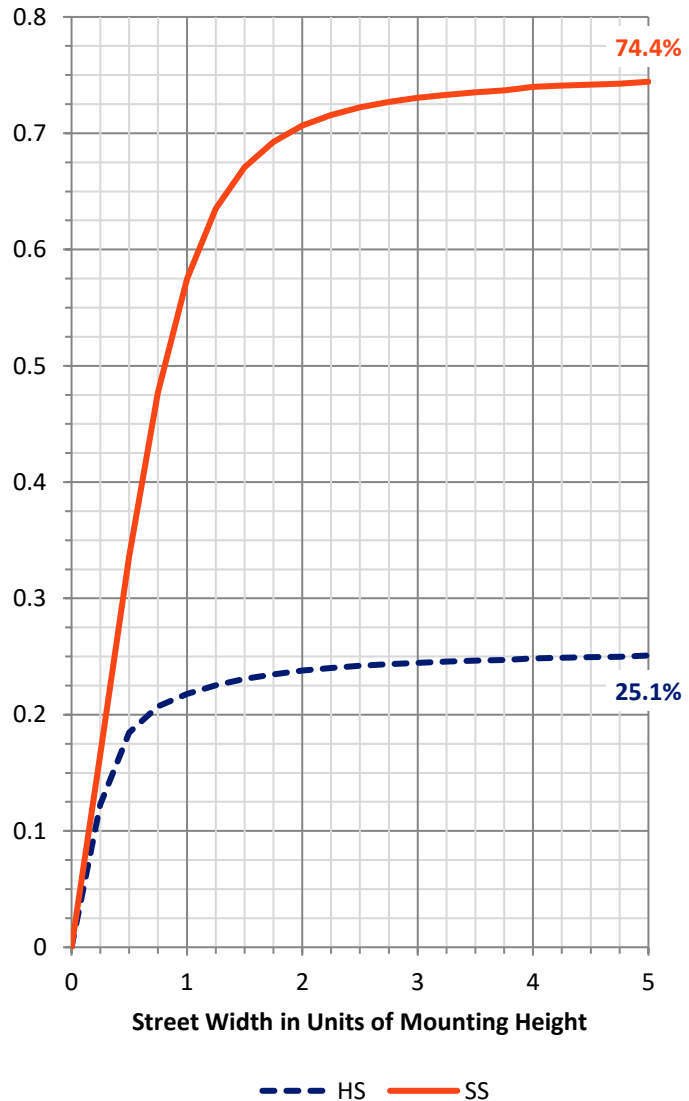
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10988.6	0.0	10988.6
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	32041.2	0.0	32041.2
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	43029.8	0.0	43029.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	695.0	1.6
10°-20°	2127.2	4.9
20°-30°	3606.0	8.4
30°-40°	5435.0	12.6
40°-50°	7466.4	17.4
50°-60°	8680.5	20.2
60°-70°	8565.3	19.9
70°-80°	5476.8	12.7
80°-90°	977.6	2.3
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°	43029.8	100.0
0°-180°	43029.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P285748

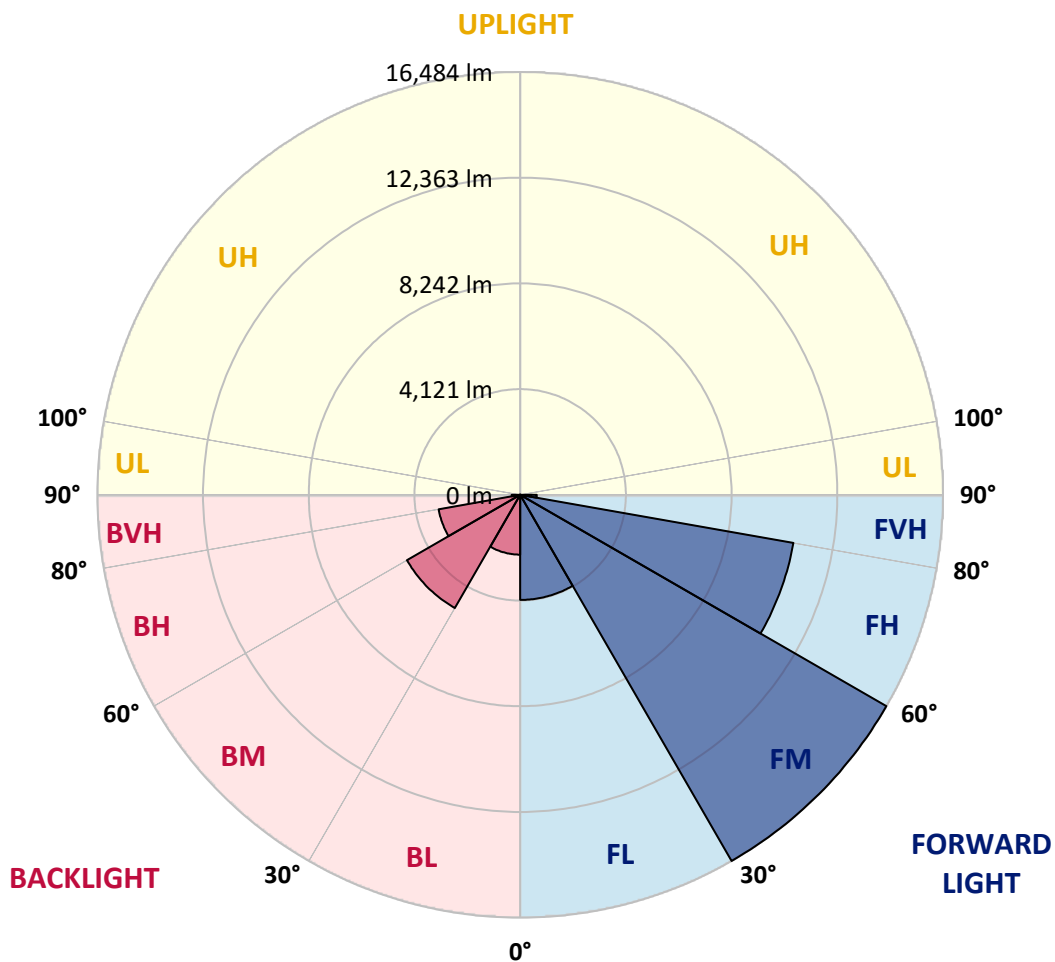
CATALOG NUMBER: USSL-XL-C069-D-U-T2-AP-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4095.4	9.5			
FM	(30°-60°)	16483.9	38.3			
FH	(60°-80°)	10815.9	25.1			G4/12000
FVH	(80°-90°)	646.0	1.5			G4/750
BL	(0°-30°)	2332.7	5.4	B3/2500		
BM	(30°-60°)	5098.0	11.8	B4/8500		
BH	(60°-80°)	3226.2	7.5	B4/5000		G4/5000
BVH	(80°-90°)	331.6	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





REPORT NUMBER: P285748

CATALOG NUMBER: USSL-XL-C069-D-U-T2-AP-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0
2.5°	7690.7	7676.0	7658.0	7626.8	7590.8	7548.2	7504.0	7404.0	7300.8	7268.1	7197.6
5°	8113.4	8085.7	8062.7	8033.2	7964.4	7877.5	7761.2	7597.4	7436.8	7386.0	7240.2
7.5°	8487.0	8455.9	8415.0	8375.6	8300.3	8188.9	8031.6	7823.4	7630.1	7541.7	7304.1
10°	8819.6	8790.2	8768.9	8724.6	8663.9	8529.7	8342.9	8082.4	7857.9	7735.0	7405.6
12.5°	9188.3	9163.7	9119.5	9068.7	8988.4	8859.0	8672.2	8388.7	8149.6	8000.4	7561.3
15°	9563.5	9547.0	9468.4	9438.9	9348.8	9199.7	9034.3	8742.6	8498.5	8313.3	7784.1
17.5°	9896.1	9884.6	9835.4	9801.0	9727.3	9560.2	9389.8	9122.8	8873.7	8637.8	8031.6
20°	10109.1	10125.4	10115.6	10109.1	10104.1	9966.6	9797.8	9522.6	9271.8	9037.6	8297.0
22.5°	10307.3	10313.9	10340.1	10400.7	10487.6	10427.0	10245.1	9991.1	9735.5	9455.4	8641.0
25°	10369.6	10374.5	10476.1	10659.6	10903.7	10929.9	10780.9	10610.4	10331.9	10056.6	9112.9
27.5°	10420.4	10433.4	10561.3	10882.4	11311.7	11436.2	11382.2	11326.4	11129.8	10841.5	9746.9
30°	10405.7	10409.0	10620.3	11033.1	11636.1	11972.0	12053.9	12322.6	12273.4	12076.8	10808.6
32.5°	10135.3	10110.7	10417.1	11036.4	11890.1	12509.4	12887.9	13653.0	13943.0	13995.4	12932.1
35°	9584.8	9584.8	10043.5	10908.6	12073.5	13040.3	13838.2	15271.8	16249.9	16276.1	14950.6
37.5°	9126.1	9155.5	9670.0	10669.4	12158.7	13579.2	14927.6	17250.9	18283.2	18194.7	16636.5
40°	8668.9	8705.0	9232.5	10343.4	12108.0	14044.5	15984.5	19138.4	19996.9	19793.8	18073.4
42.5°	8162.6	8190.5	8685.2	9879.6	11932.7	14383.7	17119.9	20749.0	21432.2	21184.9	19384.2
45°	7656.4	7703.9	8149.6	9257.1	11590.2	14586.9	18093.1	22210.5	22764.2	22479.2	20577.0
47.5°	6910.9	7094.3	7613.8	8642.6	10969.2	14572.1	18956.5	23522.9	23993.1	23689.9	21651.7
50°	5395.3	5503.4	6648.8	8085.7	10150.0	14278.9	19638.1	24694.3	25097.4	24828.7	22738.0
52.5°	4900.6	4930.0	5300.3	7402.4	9242.3	13698.9	20142.8	25777.3	26170.5	25862.5	23721.1
55°	4646.6	4662.9	4844.8	6052.3	8472.3	12630.6	20372.1	26778.4	27074.9	26727.6	24553.4
57.5°	4300.9	4351.6	4605.6	5159.4	7684.2	11119.9	20075.6	27564.8	27861.4	27484.6	25349.7
60°	4045.3	4076.4	4294.3	4723.6	6771.6	9353.7	19050.0	28133.3	28533.1	28185.8	26088.6
62.5°	3793.0	3811.0	3994.4	4407.4	5986.8	8039.8	17134.7	28067.8	28877.2	28703.6	26744.0
63°	3740.5	3756.9	3940.4	4350.0	5870.5	7771.1	16731.6	27985.9	28877.2	28755.9	26826.0
65°	3507.8	3527.6	3709.4	4082.9	5383.9	7096.0	14932.6	27476.4	28774.1	28831.4	26942.2
67.5°	3162.2	3195.0	3345.7	3671.7	4653.2	6273.5	12263.6	26943.9	28033.4	28156.3	26298.3
70°	2754.2	2760.7	2942.6	3216.3	3922.4	5336.4	9453.7	25328.4	26586.7	26640.8	24792.7
72.5°	2320.0	2338.0	2501.9	2732.8	3253.9	4418.8	6758.5	22331.8	24564.9	24869.6	22271.1
75°	2025.0	2039.9	2177.5	2339.6	2701.8	3483.3	4520.4	16284.3	21656.7	21995.9	19264.6
77.5°	1695.7	1705.6	1849.7	1961.2	2195.5	2628.0	3121.2	8591.9	14916.2	16721.7	15050.6
80°	1207.5	1209.1	1353.4	1440.2	1590.9	1615.5	1984.1	4572.8	6563.5	8482.2	9946.8
82.5°	262.1	376.8	566.9	712.7	797.9	671.8	976.5	2505.2	3625.8	4328.7	5392.0
85°	113.1	155.7	299.8	329.3	219.5	242.5	396.5	1335.4	2072.6	2467.4	2775.5
87.5°	21.3	27.9	77.1	103.2	63.9	67.2	80.2	427.7	725.8	851.9	950.3
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: P285748

CATALOG NUMBER: USSL-XL-C069-D-U-T2-AP-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0	7214.0
2.5°	7155.0	7135.4	7069.9	7025.5	6997.7	6961.6	6915.7	6855.1	6837.1	6794.6	6828.9
5°	7159.9	7107.5	6969.9	6870.0	6779.8	6701.1	6609.4	6522.5	6489.8	6432.4	6455.4
7.5°	7182.8	7094.3	6881.4	6729.0	6594.7	6488.2	6360.4	6253.8	6216.2	6150.6	6162.2
10°	7243.5	7105.9	6812.6	6627.4	6442.3	6286.6	6137.6	5991.7	5926.2	5868.9	5896.6
12.5°	7350.0	7148.5	6781.5	6543.8	6298.1	6108.1	5890.2	5703.3	5611.6	5537.9	5562.5
15°	7510.6	7230.3	6745.4	6424.3	6127.7	5880.3	5613.2	5377.3	5274.1	5216.7	5244.6
17.5°	7674.4	7350.0	6724.1	6278.4	5922.9	5601.8	5344.5	5121.8	4933.3	4890.7	4907.1
20°	7867.7	7472.8	6740.4	6124.4	5682.0	5301.9	4997.2	4848.1	4604.0	4518.8	4523.7
22.5°	8123.3	7664.6	6755.3	5973.7	5395.3	4970.9	4615.4	4468.0	4233.7	4082.9	4089.5
25°	8490.3	7902.1	6789.6	5834.4	5113.5	4607.3	4196.0	3950.2	3804.4	3612.8	3614.4
27.5°	8993.4	8228.2	6858.4	5703.3	4813.6	4189.5	3686.4	3411.2	3283.4	3157.2	3140.9
30°	9851.9	8767.2	6960.0	5559.2	4458.2	3684.8	3149.1	2908.2	2800.0	2696.8	2685.4
32.5°	11664.0	10076.3	7100.9	5377.3	4074.8	3111.3	2673.9	2483.9	2331.5	2229.9	2244.7
35°	13523.6	11716.3	7697.3	5161.1	3642.2	2610.0	2316.7	2080.8	1885.8	1807.1	1812.1
37.5°	15116.1	13202.4	8593.6	4926.7	3163.8	2287.3	1958.0	1730.2	1574.5	1535.2	1584.3
40°	16441.6	14423.0	9312.8	4679.4	2660.8	2015.3	1595.8	1471.4	1371.4	1359.9	1404.2
42.5°	17695.0	15525.7	9917.4	4394.2	2192.2	1664.7	1325.5	1355.0	1340.2	1338.5	1345.1
45°	18833.7	16548.1	10254.9	3969.9	1861.3	1363.1	1251.7	1363.1	1387.7	1384.4	1366.4
47.5°	19870.8	17482.0	10484.3	3355.5	1576.2	1277.9	1292.8	1368.1	1414.0	1422.2	1402.5
50°	20947.2	18394.6	10520.4	2611.7	1463.1	1345.1	1328.8	1318.9	1402.5	1400.9	1402.5
52.5°	21909.0	19177.7	10127.1	2030.0	1522.1	1415.6	1358.3	1300.9	1348.4	1350.1	1317.2
55°	22633.2	19820.0	9453.7	1779.4	1571.3	1474.5	1443.5	1328.8	1299.2	1279.6	1291.1
57.5°	23380.3	20393.4	8539.5	1666.3	1586.0	1487.7	1518.8	1335.4	1291.1	1201.0	1194.4
60°	24099.6	20857.1	7456.5	1590.9	1568.0	1481.1	1471.4	1386.1	1300.9	1166.5	1120.6
62.5°	24537.0	20958.7	6348.9	1517.1	1533.6	1471.4	1418.9	1423.8	1364.8	1291.1	1281.2
63°	24587.9	20924.3	6137.6	1499.1	1525.4	1469.7	1418.9	1427.0	1364.8	1320.5	1322.2
65°	24524.0	20524.5	5308.5	1422.2	1495.8	1443.5	1397.6	1356.6	1255.0	1282.9	1315.7
67.5°	23806.3	19217.0	4081.4	1297.6	1430.3	1400.9	1333.7	1232.1	1140.3	1122.3	1141.9
70°	21868.1	17075.6	2891.8	1105.9	1312.4	1346.8	1317.2	1164.9	1073.1	1056.8	1096.1
72.5°	19177.7	14826.1	1985.7	884.7	1099.4	1253.4	1245.2	1122.3	1040.4	992.9	1012.5
75°	16143.4	11958.9	1387.7	745.5	847.1	1128.9	1181.3	1086.3	1024.0	979.8	973.2
77.5°	12429.1	9032.7	1091.2	637.3	699.6	914.3	1086.3	1078.1	1155.1	1363.1	1317.2
80°	8467.3	6006.5	786.4	478.4	557.1	640.6	935.6	1112.5	1461.5	858.5	842.2
82.5°	4921.9	3529.1	491.5	317.9	332.6	435.8	586.5	1174.8	978.2	386.7	488.3
85°	2377.4	1536.9	245.8	219.5	152.4	163.9	272.0	1094.5	693.1	172.0	34.4
87.5°	758.6	373.5	26.2	19.6	22.9	32.8	129.4	668.5	408.0	147.4	21.3
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)