

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: P285827

Luminaire Tested: **USSL-XL-C04-D-U-T4-BZ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)  
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-BZ-7030  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35615 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 IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

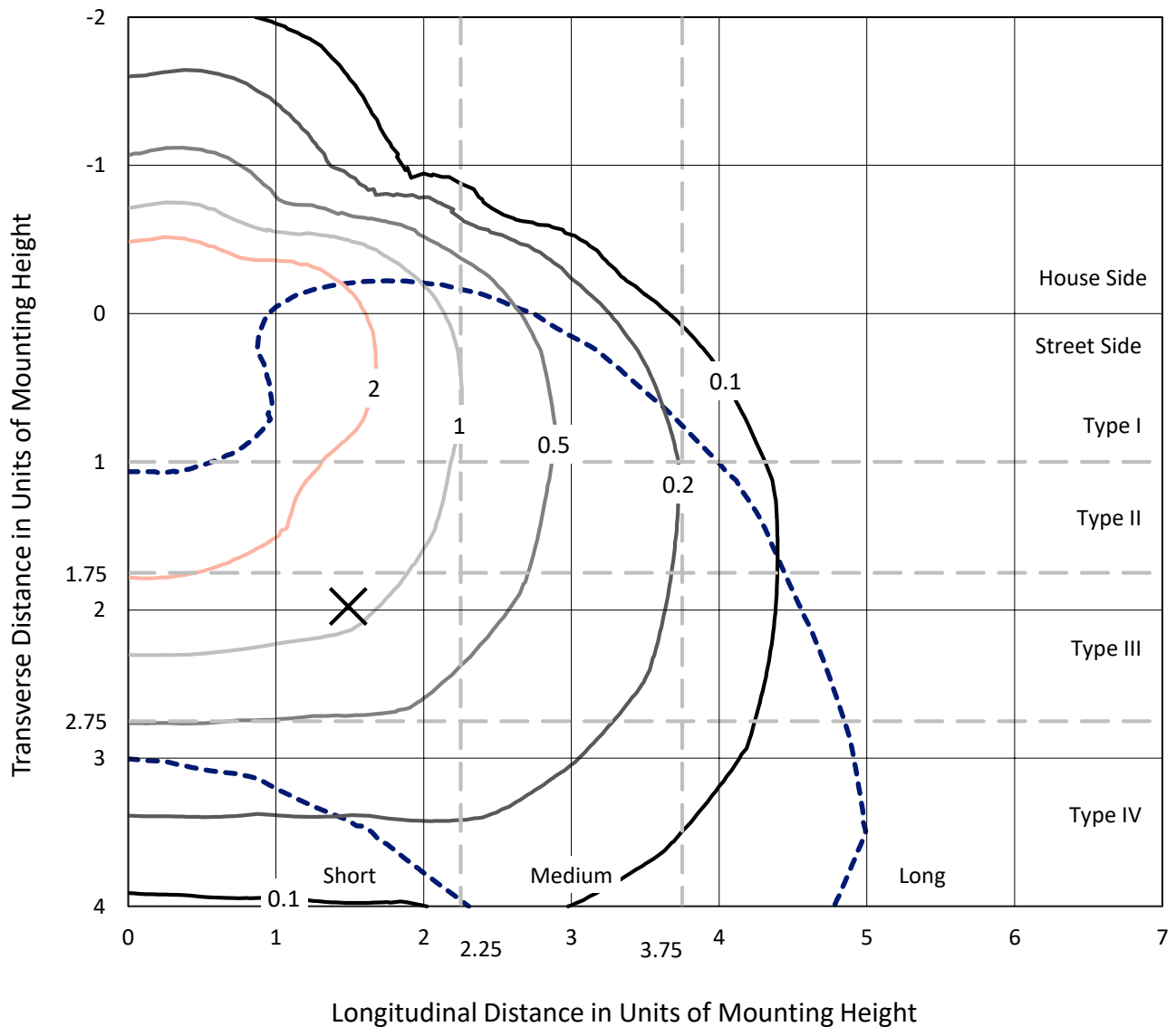
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P285827  
 CATALOG NUMBER: USSL-XL-C04-D-U-T4-BZ-7030

### Iso-Footcandle Lines of Horizontal Illumination

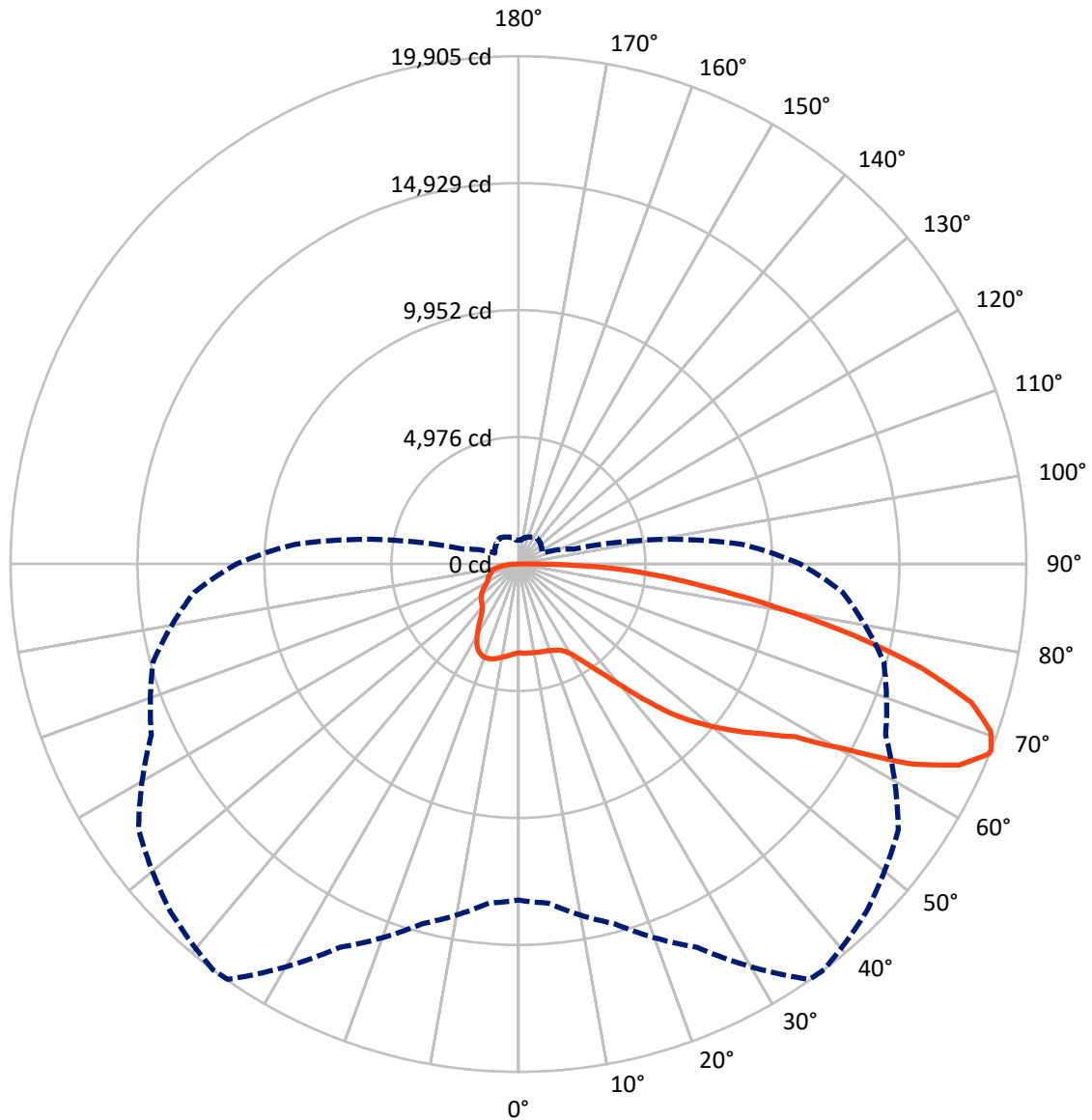
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P285827  
CATALOG NUMBER: USSL-XL-C04-D-U-T4-BZ-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P285827

CATALOG NUMBER: USSL-XL-C04-D-U-T4-BZ-7030

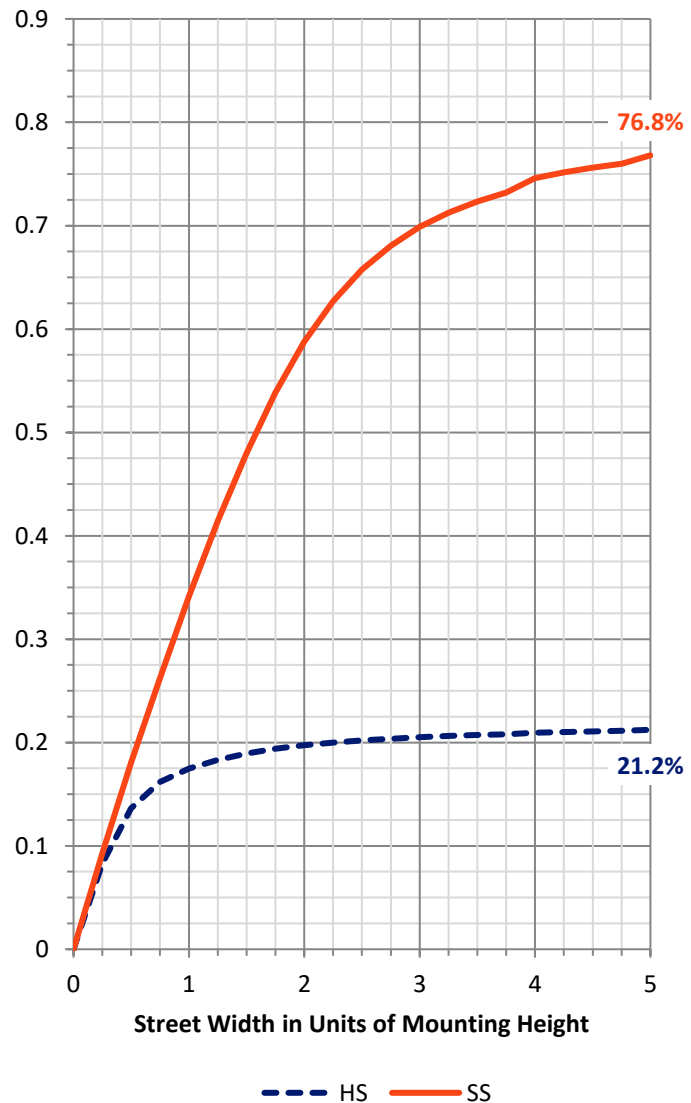
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7690.3	0.0	7690.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	27924.7	0.0	27924.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	35615.0	0.0	35615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.2	0.9
10°-20°	1051.2	3.0
20°-30°	1795.5	5.0
30°-40°	2860.6	8.0
40°-50°	4961.3	13.9
50°-60°	7191.7	20.2
60°-70°	9069.4	25.5
70°-80°	6720.4	18.9
80°-90°	1626.6	4.6
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°	35615.0	100.0
0°-180°	35615.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P285827

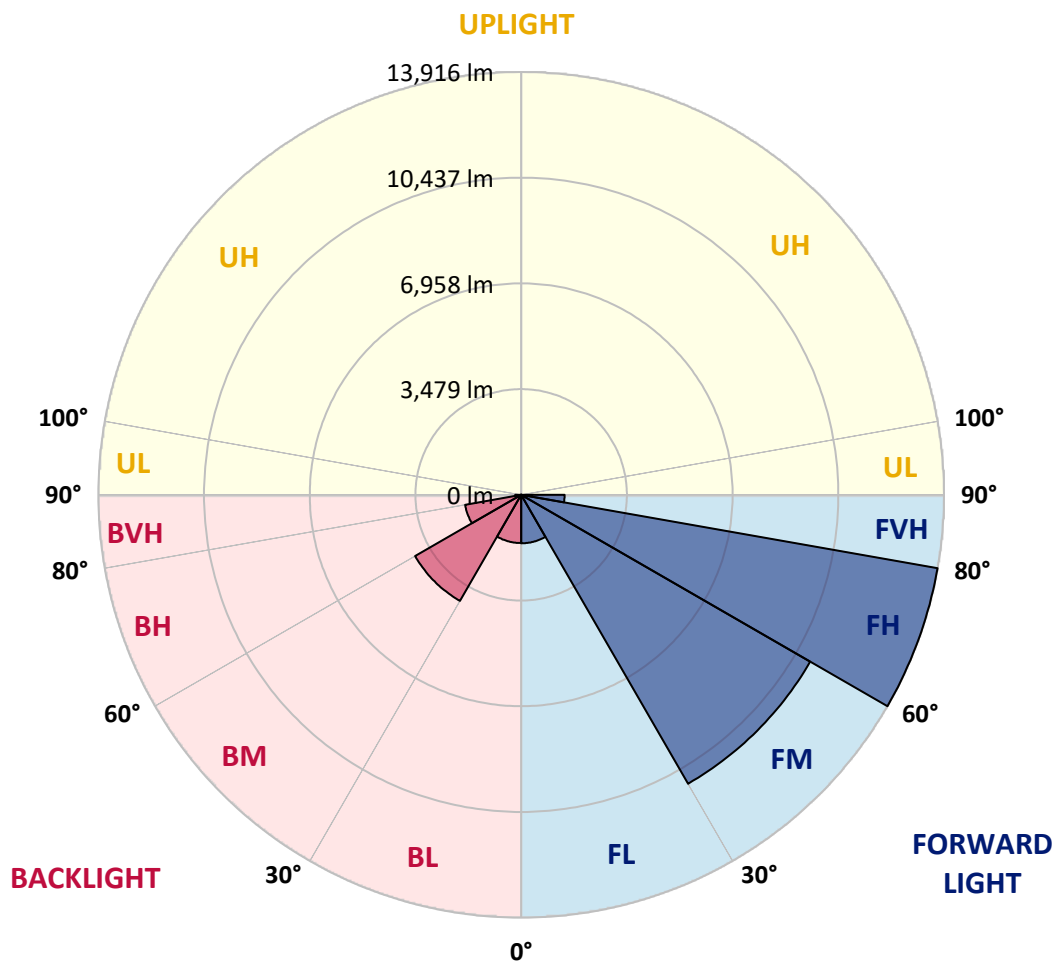
CATALOG NUMBER: USSL-XL-C04-D-U-T4-BZ-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1596.6	4.5			
FM	(30°-60°)	10982.1	30.8			
FH	(60°-80°)	13916.5	39.1			G5
FVH	(80°-90°)	1429.5	4.0			G5
BL	(0°-30°)	1588.3	4.5	B3/2500		
BM	(30°-60°)	4031.4	11.3	B3/5000		
BH	(60°-80°)	1873.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	197.2	0.6			G2/225
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: P285827

CATALOG NUMBER: USSL-XL-C04-D-U-T4-BZ-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9
2.5°	3481.2	3490.8	3493.5	3488.1	3493.5	3499.0	3486.7	3485.3	3479.9	3458.0	3460.8
5°	3482.6	3494.9	3496.2	3492.1	3501.7	3507.2	3501.7	3496.2	3490.8	3459.4	3466.2
7.5°	3482.6	3492.1	3494.9	3492.1	3505.8	3515.3	3515.3	3519.4	3519.4	3484.0	3489.4
10°	3470.3	3478.5	3482.6	3489.4	3512.6	3526.3	3534.5	3553.6	3564.5	3539.9	3541.3
12.5°	3414.4	3421.2	3434.8	3474.4	3529.0	3545.4	3568.6	3602.7	3630.0	3630.0	3632.7
15°	3370.7	3377.5	3403.4	3456.7	3539.9	3561.7	3606.8	3664.1	3714.6	3741.9	3763.7
17.5°	3381.6	3389.8	3428.0	3473.0	3556.3	3578.1	3642.3	3725.5	3808.7	3867.4	3911.1
20°	3415.7	3421.2	3464.9	3516.7	3605.4	3620.4	3683.2	3785.5	3901.5	3998.4	4069.4
22.5°	3512.6	3509.9	3545.4	3565.8	3657.3	3670.9	3743.2	3848.3	3998.4	4144.5	4248.2
25°	3593.1	3605.4	3634.1	3650.4	3725.5	3737.8	3827.9	3943.8	4117.2	4305.5	4472.0
27.5°	3681.8	3692.8	3721.4	3758.3	3863.3	3870.2	3932.9	4076.2	4268.6	4499.3	4765.4
30°	3882.4	3881.1	3909.7	3949.3	4091.2	4103.5	4162.2	4309.6	4488.3	4776.3	5097.0
32.5°	4229.1	4226.3	4230.4	4285.0	4439.2	4467.9	4542.9	4738.1	4961.9	5240.3	5596.4
35°	4940.0	4911.4	4856.8	4813.1	4900.5	4933.2	5097.0	5338.5	5738.4	6285.6	6726.4
37.5°	6115.0	6070.0	5885.7	5636.0	5535.0	5530.9	5645.6	6012.7	6634.9	7732.1	8130.6
40°	7240.8	7242.2	6992.5	6654.0	6338.8	6322.4	6256.9	6711.4	7605.2	9090.0	9276.9
42.5°	8308.0	8301.2	8010.5	7700.7	7324.1	7275.0	7083.9	7433.3	8574.1	10207.6	10244.4
45°	9270.1	9248.3	8935.7	8736.5	8413.1	8314.8	8061.0	8171.5	9481.6	11104.2	10974.5
47.5°	10199.4	10177.6	9787.3	9594.9	9311.0	9229.1	8960.3	9009.4	10349.5	11850.6	11565.4
50°	11158.8	11151.9	10587.0	10400.0	10098.4	10064.3	9901.9	9937.4	11255.7	12471.6	12115.4
52.5°	12295.5	12119.5	11484.9	11127.4	10913.1	10911.8	10730.3	10821.7	12257.3	13025.6	12497.5
55°	13515.5	13293.1	12643.5	12129.0	11760.6	11766.0	11483.6	11630.9	13137.5	13521.0	12863.2
57.5°	14386.2	14339.8	14146.0	13631.5	12870.0	12780.0	12346.0	12462.0	13909.9	14034.1	13126.6
60°	15198.1	15396.0	15525.7	15361.9	14978.4	14717.8	13514.2	13340.8	14590.9	14485.8	13264.4
62.5°	15709.9	15812.2	16416.8	16641.9	17243.8	17264.2	15824.5	14405.3	15170.8	14769.6	13325.8
65°	15146.3	15297.8	16299.4	17179.6	18896.3	18994.6	18387.3	16180.7	15633.5	14867.9	13209.8
67.5°	13574.2	13732.5	14936.1	16741.6	19810.7	19877.5	19247.1	18023.0	15864.1	14847.4	12870.0
68°	13171.6	13340.8	14596.3	16576.4	19873.4	19904.8	19281.2	18175.8	15879.1	14824.2	12759.5
70°	11505.4	11671.9	12943.7	15543.4	19625.1	19645.5	19065.6	18336.8	15801.3	14625.0	12032.1
72.5°	9038.1	9205.9	10209.0	13185.3	18377.8	18556.5	18260.4	17878.3	15472.4	13848.5	10316.8
75°	6404.3	6576.3	7620.2	10319.5	15843.6	16340.4	16931.2	16999.5	14241.5	11892.9	7685.7
77.5°	4515.6	4656.2	5559.6	7714.4	12786.8	13429.5	14660.5	14761.4	11927.1	9074.9	4054.4
80°	2931.3	3051.4	3860.6	5653.8	9665.8	10221.2	11573.6	11156.0	8475.9	4934.6	705.5
82.5°	1770.0	1860.0	2459.1	3911.1	7073.0	7442.8	7994.1	6697.7	3932.9	697.3	247.0
85°	1015.3	1076.7	1518.9	2512.3	4983.7	5298.9	5375.4	3362.5	739.6	192.4	139.2
87.5°	519.9	551.3	814.7	1543.4	2944.9	3080.0	2696.6	1203.6	147.4	86.0	69.6
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: P285827

CATALOG NUMBER: USSL-XL-C04-D-U-T4-BZ-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9	3479.9
2.5°	3447.1	3456.7	3463.5	3486.7	3511.3	3523.5	3511.3	3530.4	3537.2	3531.7	3523.5
5°	3455.3	3470.3	3481.2	3527.6	3554.9	3575.4	3561.7	3589.0	3598.6	3587.7	3587.7
7.5°	3478.5	3499.0	3516.7	3578.1	3609.5	3636.8	3628.6	3647.7	3655.9	3642.3	3650.4
10°	3539.9	3560.4	3583.6	3660.0	3680.5	3706.4	3691.4	3706.4	3709.1	3699.6	3706.4
12.5°	3646.4	3660.0	3705.0	3782.8	3785.5	3792.4	3761.0	3732.3	3720.0	3702.3	3714.6
15°	3782.8	3807.4	3868.8	3934.3	3916.6	3901.5	3823.8	3731.0	3672.3	3628.6	3625.9
17.5°	3934.3	3978.0	4054.4	4096.7	4055.7	3987.5	3856.5	3699.6	3557.6	3479.9	3455.3
20°	4089.9	4158.1	4242.7	4250.9	4181.3	4050.3	3851.0	3619.1	3384.3	3239.7	3204.2
22.5°	4279.6	4368.3	4444.7	4403.7	4264.5	4072.1	3800.6	3477.1	3155.1	2935.4	2902.6
25°	4530.6	4618.0	4631.6	4511.5	4295.9	4031.2	3684.6	3265.6	2857.6	2584.7	2558.7
27.5°	4833.6	4880.0	4791.3	4567.5	4257.7	3908.4	3486.7	2972.2	2526.0	2288.5	2248.9
30°	5169.3	5152.9	4908.7	4568.9	4145.8	3699.6	3186.5	2639.2	2264.0	2059.3	2021.1
32.5°	5595.1	5487.3	5027.4	4507.4	3961.6	3418.5	2833.0	2373.1	2083.8	1875.0	1838.2
35°	6441.2	6113.6	5188.4	4410.6	3717.3	3081.4	2523.2	2180.7	1929.6	1689.4	1655.3
37.5°	7728.0	7049.8	5479.1	4304.1	3445.7	2736.1	2285.8	2030.6	1808.2	1551.6	1498.4
40°	8856.6	8084.2	5943.1	4204.5	3168.7	2474.1	2149.3	1958.3	1741.3	1482.0	1427.4
42.5°	9723.2	8912.5	6473.9	4085.8	2879.4	2280.3	2092.0	1948.7	1733.1	1482.0	1431.5
45°	10423.2	9596.2	6946.1	3956.1	2599.7	2127.5	2040.2	1931.0	1716.7	1473.8	1426.1
47.5°	10975.9	10106.6	7318.6	3807.4	2309.0	2023.8	1986.9	1869.6	1674.4	1449.3	1401.5
50°	11454.9	10472.3	7527.4	3632.7	2051.1	1941.9	1911.9	1771.3	1589.8	1376.9	1345.5
52.5°	11789.2	10769.8	7606.6	3560.4	1866.8	1849.1	1809.5	1671.7	1498.4	1291.0	1255.5
55°	12040.3	10922.7	7541.1	3395.3	1682.6	1705.8	1688.1	1595.3	1434.2	1237.7	1202.3
57.5°	12168.6	10973.2	7354.1	2773.0	1507.9	1535.2	1547.5	1553.0	1424.7	1252.8	1220.0
60°	12213.6	10894.0	6946.1	1980.1	1321.0	1375.6	1443.8	1464.3	1382.4	1195.4	1168.1
62.5°	12145.4	10688.0	6146.4	1368.7	1179.1	1276.0	1366.0	1360.6	1273.2	1110.8	1074.0
65°	11879.3	10183.0	4673.9	1104.0	1131.3	1230.9	1330.5	1263.7	1179.1	1028.9	1009.8
67.5°	11235.2	9120.0	2621.5	1019.4	1116.3	1205.0	1269.1	1188.6	1094.5	952.5	944.3
68°	11044.1	8807.5	2238.0	1013.9	1113.6	1196.8	1252.8	1169.5	1078.1	940.2	934.8
70°	9930.6	7197.2	1009.8	996.2	1097.2	1166.8	1207.7	1116.3	1018.0	897.9	889.8
72.5°	7673.4	4457.0	678.2	947.1	1056.2	1121.7	1147.7	1061.7	979.8	846.1	835.2
75°	4548.4	1225.5	642.8	862.5	986.6	1078.1	1105.4	1019.4	922.5	768.3	750.6
77.5°	1119.0	442.1	622.3	766.9	914.3	1005.7	1049.4	990.7	873.4	691.9	674.1
80°	339.8	352.1	592.3	663.2	822.9	897.9	923.9	923.9	807.9	487.2	513.1
82.5°	223.8	282.5	504.9	498.1	653.7	743.7	694.6	697.3	634.6	217.0	253.8
85°	140.6	230.6	341.2	326.2	416.2	455.8	494.0	507.7	446.2	62.8	4.1
87.5°	72.3	98.3	120.1	128.3	165.1	236.1	316.6	311.1	229.3	56.0	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)