

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: P285776

Luminaire Tested: **USSL-XL-C049-D-U-T2-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285776
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-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K 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: 31030.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: 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

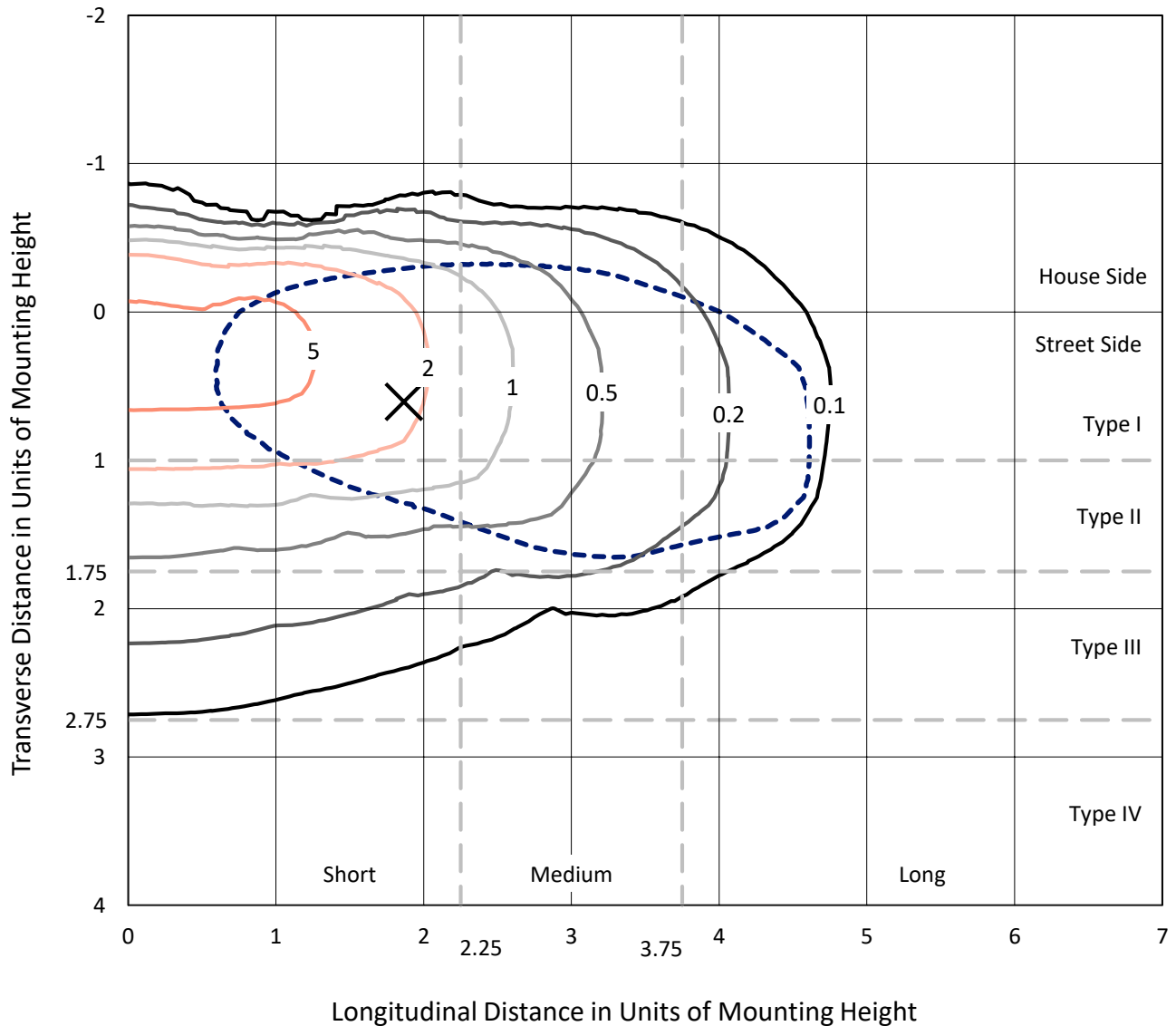


REPORT NUMBER: P285776

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

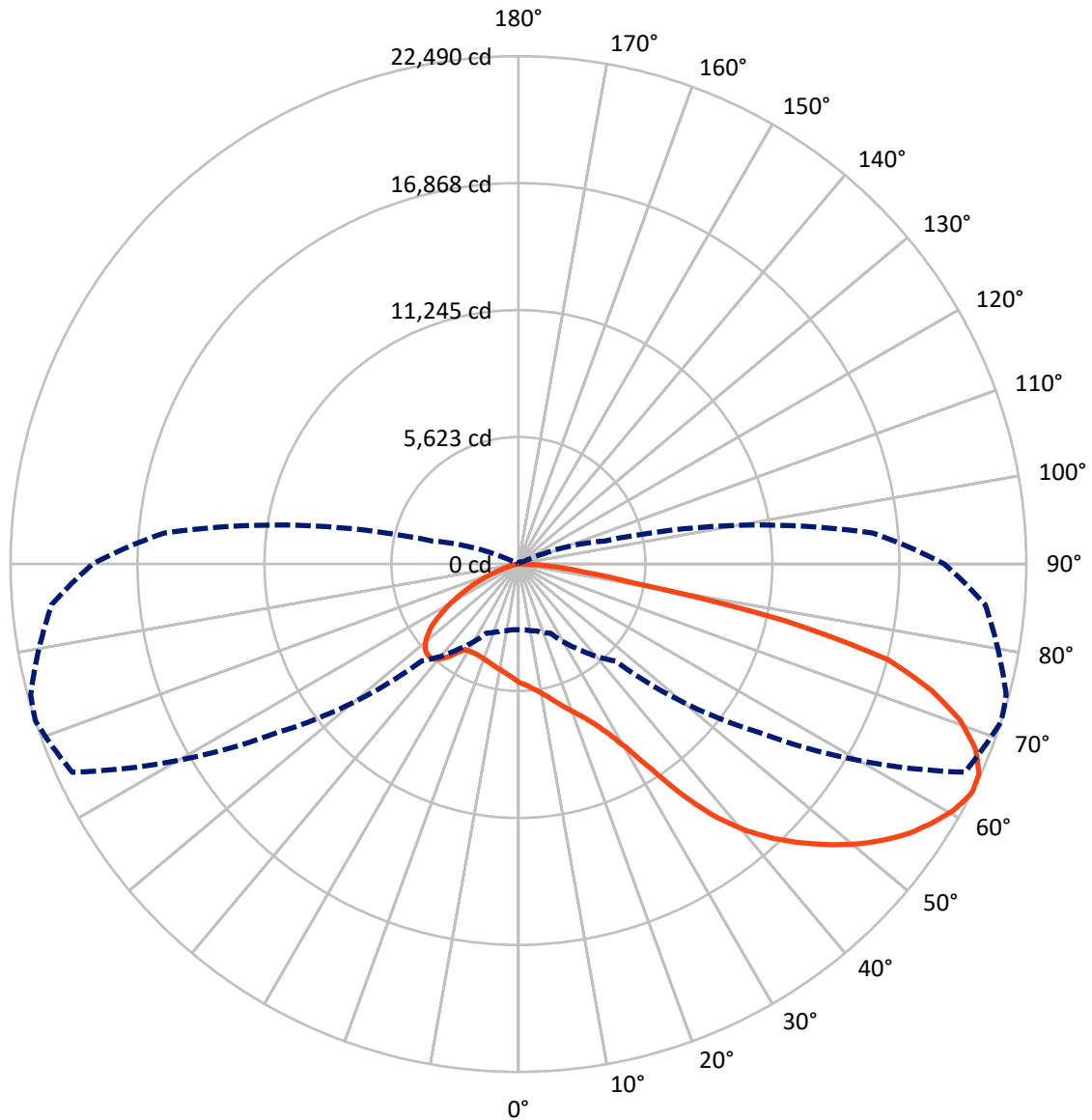


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285776

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-7050-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285776

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-7050-HSS

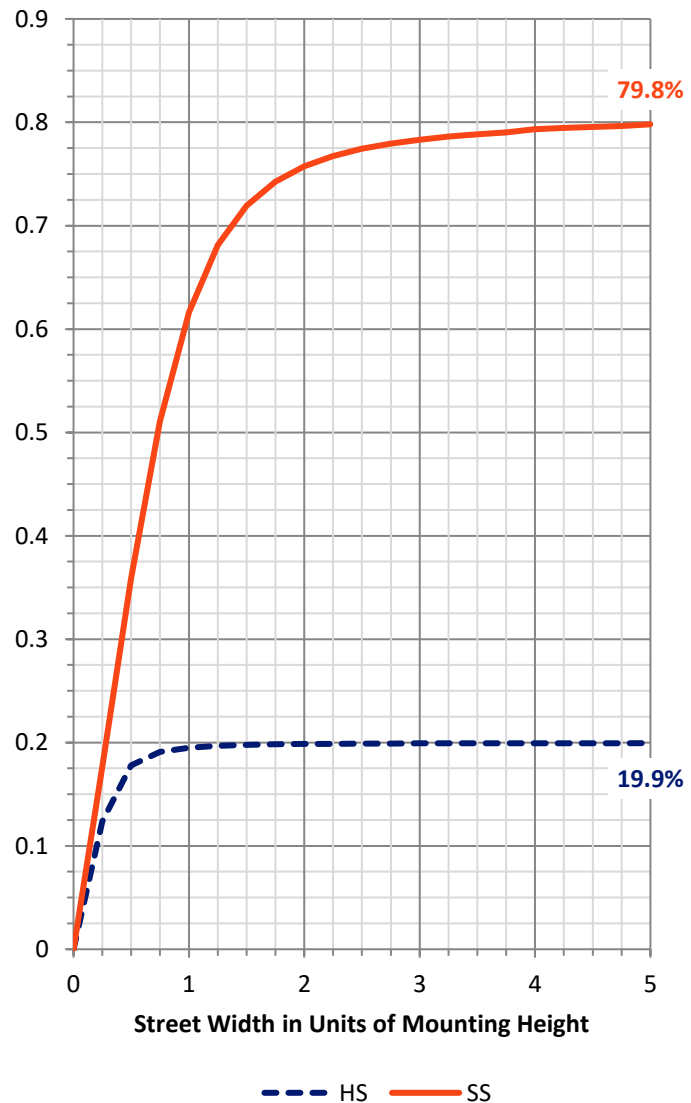
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6260.3	0.0	6260.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	24770.4	0.0	24770.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	31030.7	0.0	31030.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.5	1.6
10°-20°	1520.7	4.9
20°-30°	2565.9	8.3
30°-40°	3927.0	12.7
40°-50°	5470.9	17.6
50°-60°	6340.8	20.4
60°-70°	6216.2	20.0
70°-80°	3881.0	12.5
80°-90°	606.6	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°	31030.7	100.0
0°-180°	31030.7	100.0

Coefficient of Utilization



REPORT NUMBER: P285776

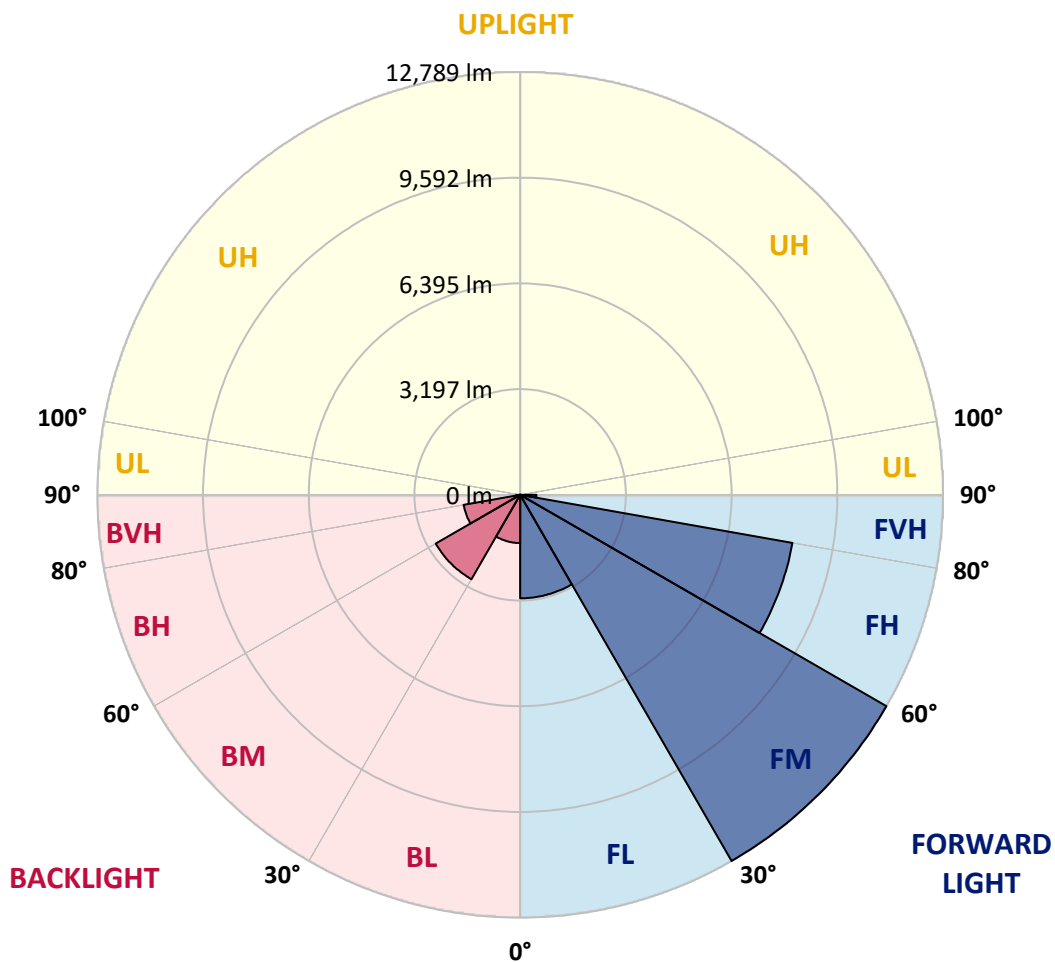
CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3128.7	10.1			
FM (30°-60°)	12789.5	41.2			
FH (60°-80°)	8361.8	26.9			G4/12000
FVH (80°-90°)	490.4	1.6			G3/500
BL (0°-30°)	1459.4	4.7	B3/2500		
BM (30°-60°)	2949.3	9.5	B3/5000		
BH (60°-80°)	1735.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	116.2	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: P285776

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3
2.5°	5706.6	5691.2	5674.6	5654.0	5637.4	5586.0	5539.9	5451.3	5342.2	5337.1	5248.5
5°	6095.5	6071.1	6051.8	6015.9	5976.1	5885.0	5778.5	5629.7	5474.4	5450.0	5293.5
7.5°	6420.1	6394.5	6372.6	6326.4	6281.6	6169.9	6032.6	5832.4	5639.9	5591.2	5356.3
10°	6703.8	6678.1	6667.8	6617.8	6585.7	6463.8	6293.2	6076.2	5835.0	5760.6	5451.3
12.5°	7002.8	6975.8	6957.8	6905.2	6866.8	6737.1	6585.7	6343.2	6069.8	5990.2	5587.3
15°	7297.9	7273.6	7232.4	7204.2	7159.3	7024.6	6882.1	6629.4	6357.3	6257.2	5769.6
17.5°	7569.9	7549.5	7518.6	7494.2	7457.0	7317.1	7161.9	6947.5	6669.1	6545.9	5978.7
20°	7770.1	7771.4	7758.6	7745.7	7758.6	7644.4	7518.6	7279.9	6993.8	6850.0	6195.5
22.5°	7942.1	7952.3	7969.1	7988.3	8070.4	8014.0	7862.6	7668.8	7362.1	7192.7	6474.1
25°	8026.8	8034.5	8108.9	8234.7	8419.4	8418.1	8277.1	8137.2	7845.8	7670.1	6861.6
27.5°	8076.9	8087.1	8191.0	8443.8	8769.8	8819.9	8762.1	8700.5	8497.7	8321.9	7373.6
30°	8074.3	8088.4	8248.8	8565.8	9045.7	9299.8	9305.0	9532.1	9435.8	9315.1	8237.2
32.5°	7881.7	7886.9	8110.2	8577.3	9253.6	9725.9	9937.5	10533.0	10830.7	10852.5	9832.4
35°	7424.9	7490.4	7824.1	8473.4	9403.8	10142.9	10690.8	11812.4	12602.8	12640.2	11433.9
37.5°	7096.5	7136.2	7516.1	8287.3	9473.1	10577.9	11555.8	13348.5	14213.4	14122.3	12759.5
40°	6737.1	6785.9	7175.9	8038.4	9429.4	10951.3	12437.4	14822.9	15515.9	15373.4	13888.7
42.5°	6339.3	6380.4	6747.4	7670.1	9290.8	11220.8	13288.2	16097.2	16629.7	16455.3	14915.3
45°	5947.9	5974.9	6322.6	7173.4	9023.9	11385.1	14064.6	17244.5	17617.9	17470.3	15861.1
47.5°	5451.3	5483.4	5909.4	6699.9	8535.0	11379.9	14737.0	18264.6	18576.4	18412.3	16704.2
50°	4204.0	4224.4	5165.1	6270.1	7903.6	11154.1	15313.1	19188.5	19482.4	19295.1	17538.3
52.5°	3808.8	3825.4	4116.7	5734.9	7214.5	10685.7	15691.7	20040.7	20306.3	20106.1	18324.9
55°	3620.1	3631.6	3772.8	4667.3	6610.1	9882.4	15858.5	20829.9	21031.4	20772.1	18964.0
57.5°	3353.2	3376.2	3589.2	3997.3	6018.5	8649.2	15619.9	21467.6	21619.1	21365.0	19586.4
60°	3150.4	3164.5	3344.2	3667.6	5303.7	7269.6	14767.8	21898.8	22145.2	21915.6	20171.6
62.5°	2952.8	2957.9	3108.1	3422.4	4682.6	6239.2	13313.8	21871.9	22468.6	22326.2	20682.3
63°	2910.5	2915.6	3068.3	3377.6	4591.5	6068.6	12995.5	21806.5	22490.4	22360.8	20750.3
65°	2730.7	2738.5	2887.4	3172.2	4196.3	5528.3	11586.5	21403.5	22417.3	22413.4	20841.4
67.5°	2462.6	2476.7	2603.8	2847.5	3657.3	4845.5	9414.0	20973.6	21829.5	21875.7	20332.0
70°	2137.9	2148.2	2291.9	2497.2	3077.2	4114.1	7209.3	19599.2	20749.0	20620.7	19151.3
72.5°	1794.0	1812.0	1949.3	2108.4	2552.5	3394.2	5220.3	17254.7	19127.0	19221.9	17171.3
75°	1565.6	1575.9	1693.9	1806.8	2119.9	2701.3	3491.7	12389.9	16912.1	16936.5	14812.6
77.5°	1298.7	1311.5	1433.4	1539.9	1719.6	2033.9	2408.7	6439.4	12025.4	12708.1	11501.8
80°	716.1	831.6	1033.0	1111.3	1244.7	1235.7	1532.2	3403.2	5321.7	6653.7	7596.9
82.5°	120.6	155.3	417.1	544.2	592.9	521.0	744.3	1873.6	2966.9	3404.5	4088.5
85°	51.3	74.4	218.1	238.7	148.8	145.0	293.9	980.4	1697.7	1955.7	2107.1
87.5°	6.5	11.6	56.5	74.4	34.7	47.5	59.0	306.7	591.5	680.1	768.6
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: P285776

CATALOG NUMBER: USSL-XL-C049-D-U-T2-AP-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3	5252.3
2.5°	5206.2	5176.7	5108.6	5056.0	5017.6	4964.9	4908.5	4867.4	4823.8	4804.5	4812.3
5°	5213.9	5148.5	5003.5	4889.2	4762.1	4668.5	4546.5	4485.0	4418.3	4384.9	4383.6
7.5°	5234.4	5131.7	4903.3	4723.7	4542.7	4396.5	4237.4	4128.2	4069.2	4025.6	4020.4
10°	5285.7	5139.5	4827.6	4583.9	4350.3	4154.0	3960.1	3819.0	3738.2	3693.2	3699.7
12.5°	5378.1	5167.6	4773.7	4469.6	4169.3	3935.7	3688.1	3522.6	3423.7	3368.6	3383.9
15°	5505.2	5229.3	4718.6	4328.4	3975.6	3701.0	3436.6	3249.2	3138.9	3091.4	3106.8
17.5°	5647.7	5319.1	4680.1	4170.6	3771.5	3461.0	3215.8	3032.4	2847.5	2810.3	2810.3
20°	5806.8	5419.2	4673.6	4020.4	3570.1	3232.5	2950.2	2796.2	2528.1	2436.9	2417.6
22.5°	6017.2	5560.3	4665.9	3883.2	3355.7	2996.4	2650.0	2407.4	2059.6	1903.1	1887.7
25°	6307.3	5755.5	4678.7	3770.2	3160.6	2730.7	2236.7	1847.9	1555.3	1359.0	1348.7
27.5°	6696.0	6015.9	4719.8	3665.0	2965.6	2403.5	1732.4	1317.9	1092.0	916.3	863.6
30°	7431.4	6427.9	4791.7	3571.3	2738.5	1964.6	1231.9	891.9	730.2	608.3	581.4
32.5°	8836.5	7462.1	4890.5	3467.4	2458.8	1447.5	822.6	595.5	464.6	394.0	409.3
35°	10237.9	8751.8	5361.5	3314.6	2090.4	963.8	549.2	379.9	292.5	290.0	306.7
37.5°	11500.6	9892.7	5998.0	3144.0	1597.7	648.0	329.8	252.8	245.2	266.9	300.3
40°	12547.7	10819.1	6535.7	2905.3	1097.2	396.5	215.6	229.7	218.1	227.1	223.3
42.5°	13520.4	11653.3	6971.9	2634.5	646.8	228.4	187.4	213.0	196.3	188.7	173.2
45°	14395.6	12439.9	7191.4	2208.5	377.3	182.2	170.6	201.5	189.9	175.8	152.7
47.5°	15192.5	13130.4	7335.1	1625.9	216.9	159.1	159.1	180.9	178.4	161.7	148.8
50°	16018.9	13805.3	7321.0	998.4	183.5	146.3	151.5	151.5	160.4	125.8	114.3
52.5°	16749.1	14412.3	7028.4	565.9	169.4	138.6	137.3	123.2	130.9	97.5	91.2
55°	17342.0	14884.5	6536.9	373.4	160.4	137.3	120.6	106.5	100.1	70.6	73.1
57.5°	17924.6	15333.7	5784.9	295.2	166.8	132.2	110.3	91.2	78.3	55.2	52.6
60°	18486.7	15691.7	4988.0	265.6	175.8	132.2	91.2	76.9	52.6	42.4	37.2
62.5°	18826.7	15769.9	4106.5	240.0	180.9	123.2	82.1	62.9	38.5	28.2	25.6
63°	18851.1	15746.9	3949.8	236.1	182.2	123.2	82.1	60.3	37.2	25.6	23.1
65°	18813.9	15455.6	3339.0	223.3	186.1	118.1	78.3	48.8	29.5	18.0	15.4
67.5°	18191.5	14481.6	2475.4	209.2	178.4	116.8	71.9	39.7	23.1	11.6	9.0
70°	16668.3	12969.9	1654.1	186.1	171.9	114.3	84.7	33.4	19.3	6.5	5.1
72.5°	14540.7	11338.9	1107.5	152.7	150.2	93.7	51.3	28.2	14.1	2.5	0.0
75°	12289.8	9125.3	685.2	116.8	121.9	79.6	41.0	24.4	11.6	0.0	0.0
77.5°	9566.7	6741.0	487.7	74.4	86.0	68.0	34.7	20.6	9.0	0.0	0.0
80°	6526.7	4568.4	352.9	41.0	44.9	44.9	28.2	15.4	5.1	0.0	0.0
82.5°	3785.6	2560.1	179.7	20.6	19.3	23.1	12.8	7.7	1.3	0.0	0.0
85°	1846.7	1134.4	30.8	11.6	10.3	10.3	5.1	0.0	0.0	0.0	0.0
87.5°	626.2	293.9	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)