

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: P285848

Luminaire Tested: **USSL-XL-C069-D-U-T4-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285848
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-C069-D-U-T4-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K 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: 38791.3 lumens
Efficiency: N/A
Efficacy: 136.1 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): 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

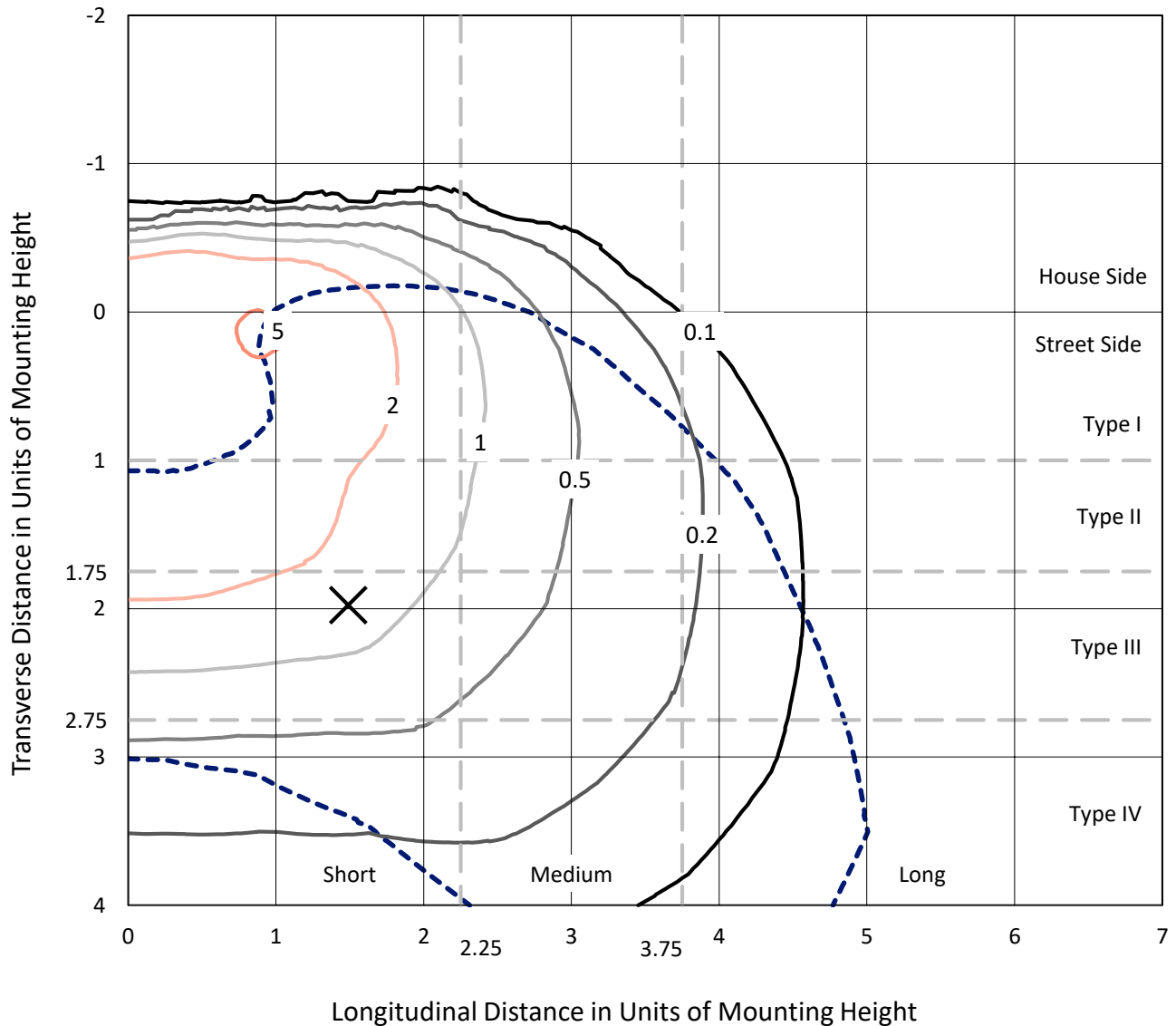


REPORT NUMBER: P285848

CATALOG NUMBER: USSL-XL-C069-D-U-T4-AP-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

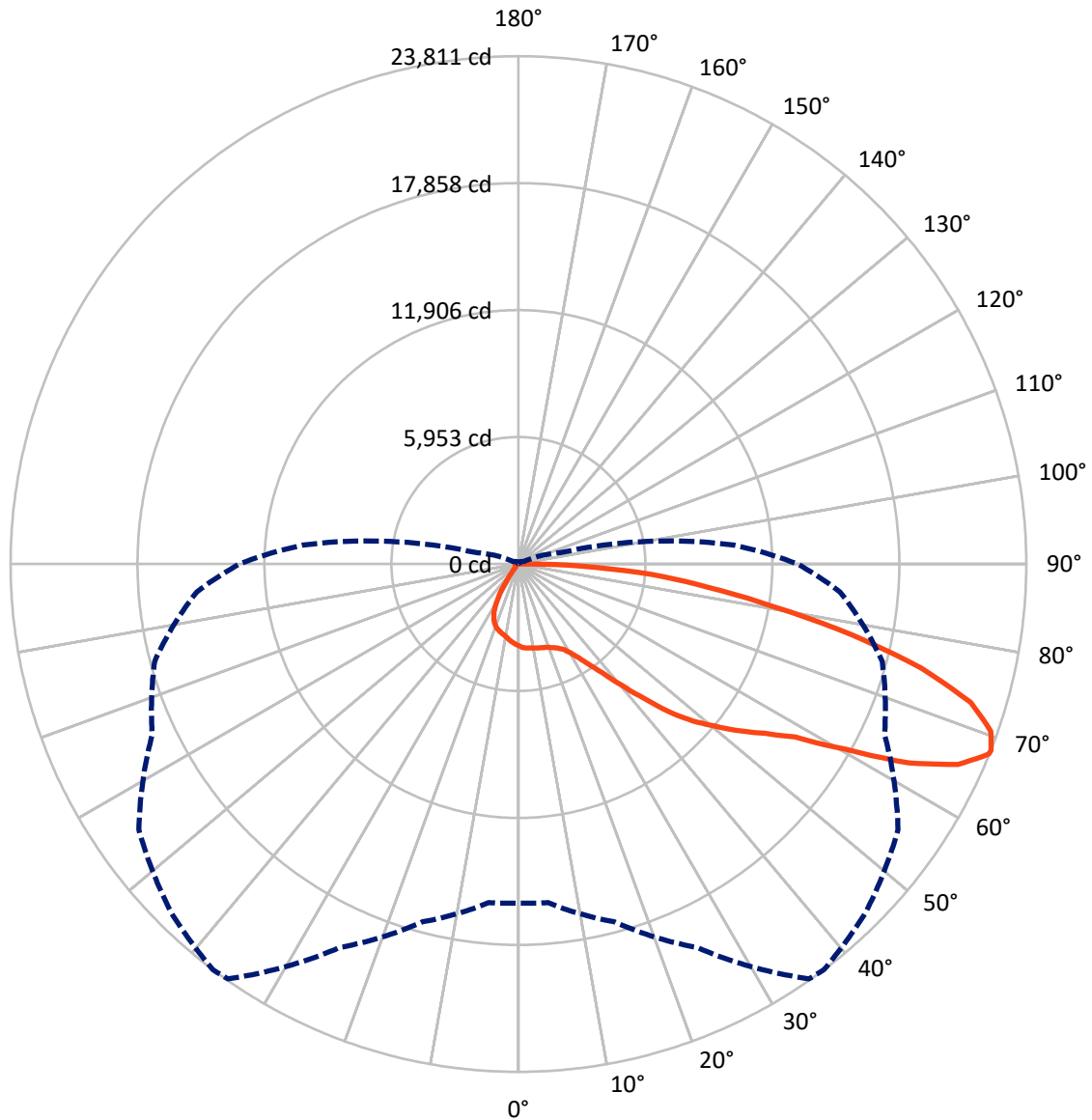


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P285848

CATALOG NUMBER: USSL-XL-C069-D-U-T4-AP-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285848

CATALOG NUMBER: USSL-XL-C069-D-U-T4-AP-7030-HSS

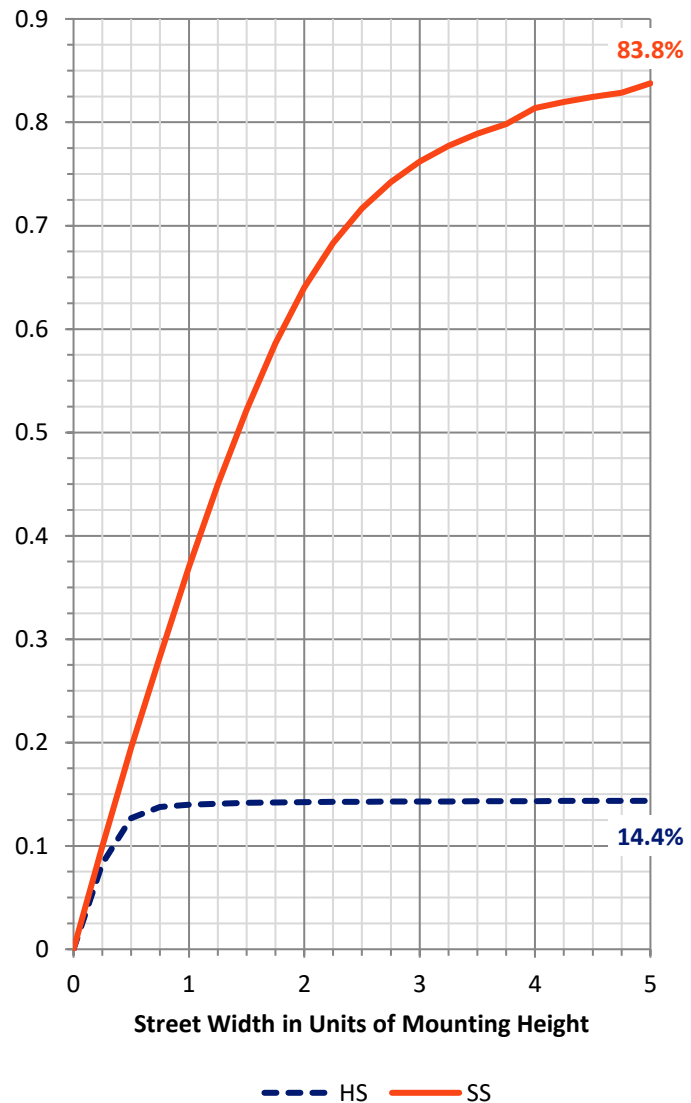
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5634.6	0.0	5634.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	33156.6	0.0	33156.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	38791.3	0.0	38791.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.6	0.9
10°-20°	1076.3	2.8
20°-30°	1798.6	4.6
30°-40°	2921.3	7.5
40°-50°	5277.6	13.6
50°-60°	7861.5	20.3
60°-70°	10240.9	26.4
70°-80°	7539.9	19.4
80°-90°	1712.6	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°	38791.3	100.0
0°-180°	38791.3	100.0



REPORT NUMBER: P285848

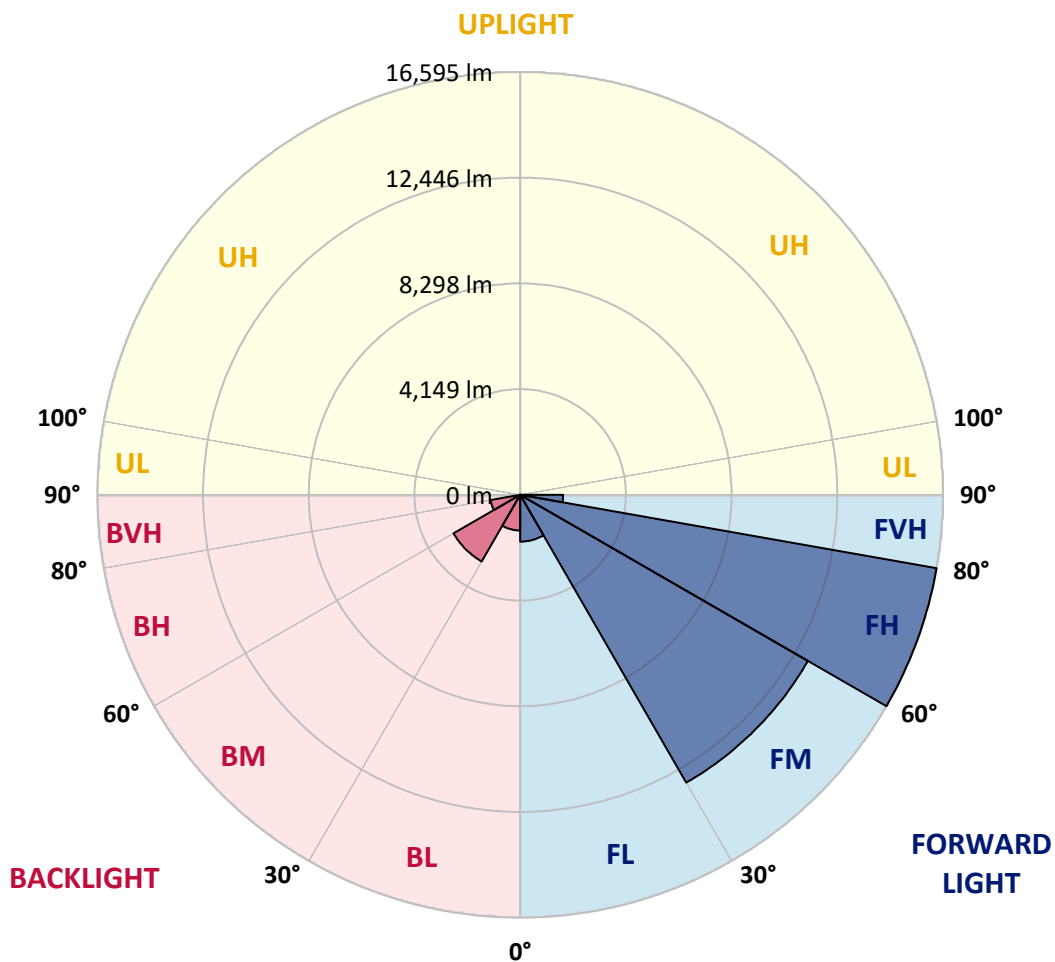
CATALOG NUMBER: USSL-XL-C069-D-U-T4-AP-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1836.1	4.7			
FM	(30°-60°)	13040.9	33.6			
FH	(60°-80°)	16595.1	42.8			G5
FVH	(80°-90°)	1684.5	4.3			G5
BL	(0°-30°)	1401.3	3.6	B3/2500		
BM	(30°-60°)	3019.6	7.8	B3/5000		
BH	(60°-80°)	1185.7	3.1	B3/2500		G3/2500
BVH	(80°-90°)	28.1	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: P285848

CATALOG NUMBER: USSL-XL-C069-D-U-T4-AP-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9
2.5°	3922.4	3925.7	3925.7	3920.8	3927.4	3922.4	3910.9	3899.5	3886.3	3834.0	3822.4
5°	3940.4	3948.7	3948.7	3947.0	3956.8	3955.1	3945.4	3935.5	3920.8	3858.5	3837.2
7.5°	3950.2	3958.4	3960.1	3956.8	3976.4	3979.7	3973.1	3973.1	3961.7	3899.5	3868.3
10°	3948.7	3950.2	3955.1	3963.4	3994.4	4002.7	4010.9	4024.0	4024.0	3973.1	3937.1
12.5°	3906.0	3907.6	3924.1	3961.7	4024.0	4037.1	4061.6	4097.7	4115.7	4087.9	4056.8
15°	3876.5	3876.5	3899.5	3958.4	4053.5	4071.5	4124.0	4179.6	4232.1	4228.8	4222.2
17.5°	3902.8	3907.6	3943.7	3994.4	4091.1	4110.8	4179.6	4269.7	4353.3	4389.4	4395.9
20°	3981.4	3986.3	4025.6	4078.1	4161.6	4176.3	4243.5	4351.6	4476.2	4554.8	4600.7
22.5°	4097.7	4101.0	4132.1	4171.4	4253.4	4263.2	4328.7	4445.0	4602.3	4736.7	4817.0
25°	4207.5	4214.1	4241.9	4271.4	4363.2	4371.3	4451.6	4574.5	4758.0	4938.2	5085.7
27.5°	4318.9	4330.3	4364.8	4405.7	4538.5	4541.8	4615.4	4736.7	4954.6	5200.4	5419.9
30°	4566.3	4553.2	4582.7	4636.7	4823.5	4835.1	4908.7	5044.7	5247.9	5524.8	5842.6
32.5°	4987.4	4972.6	4971.0	5051.3	5223.3	5279.0	5359.3	5573.9	5827.9	6103.1	6435.7
35°	5819.7	5796.8	5687.0	5660.8	5762.4	5841.0	6001.6	6316.2	6743.8	7345.1	7723.6
37.5°	7202.6	7173.1	6932.2	6648.8	6502.9	6552.1	6686.5	7122.2	7839.9	9112.9	9488.1
40°	8569.0	8575.5	8283.9	7812.0	7494.1	7504.0	7449.9	7953.0	9021.2	10762.9	10915.3
42.5°	9874.8	9863.3	9506.1	9075.3	8668.9	8588.7	8387.1	8822.9	10127.1	12093.2	12027.7
45°	11033.2	11010.2	10612.1	10371.2	9925.6	9883.0	9560.2	9706.0	11242.9	13151.7	12927.2
47.5°	12139.1	12119.4	11647.6	11419.9	11061.0	10987.3	10684.2	10758.0	12278.4	13984.0	13651.4
50°	13290.9	13330.3	12643.8	12381.6	12052.3	11955.7	11803.3	11847.5	13346.7	14767.2	14269.1
52.5°	14690.2	14491.9	13764.5	13279.5	13015.7	12996.1	12801.0	12894.4	14521.4	15455.4	14819.6
55°	16182.8	15920.7	15204.6	14572.2	13980.7	14015.2	13726.8	13864.4	15576.5	16050.1	15253.8
57.5°	17201.9	17195.3	17005.2	16400.7	15370.1	15298.1	14763.9	14880.3	16500.6	16664.5	15579.8
60°	18176.8	18443.8	18648.6	18378.2	17878.5	17649.1	16154.9	15938.7	17344.4	17219.9	15766.6
62.5°	18832.1	18914.0	19685.7	19913.5	20586.9	20542.7	18935.3	17219.9	18063.7	17580.3	15827.3
65°	18229.2	18296.3	19467.8	20564.0	22564.4	22656.2	21986.1	19335.1	18630.6	17704.9	15702.7
67.5°	16359.8	16408.8	17785.1	20054.4	23663.9	23785.1	23003.5	21542.0	18917.3	17683.6	15278.4
68°	15904.2	15938.7	17367.3	19839.7	23745.8	23811.3	23054.3	21725.6	18940.2	17659.0	15140.8
70°	13949.6	13943.1	15293.1	18565.1	23480.4	23500.0	22761.0	21925.5	18850.1	17426.3	14262.5
72.5°	10785.8	10995.5	12121.1	15637.1	22017.2	22174.5	21789.5	21373.3	18466.7	16485.9	12160.4
75°	7674.4	7838.3	8994.9	12194.8	19005.8	19502.3	20185.5	20337.8	17074.0	14169.2	8958.9
77.5°	5354.4	5528.0	6609.4	9108.0	15363.6	16012.3	17454.2	17680.3	14360.8	10741.6	4571.2
80°	3425.9	3591.5	4584.3	6624.2	11600.1	12153.9	13730.1	13404.0	10050.1	5754.2	801.2
82.5°	2082.5	2166.0	2916.4	4530.2	8454.3	8968.8	9493.1	8049.6	4810.5	814.3	257.2
85°	1183.0	1241.9	1789.2	2926.3	5972.1	6270.3	6388.2	4017.4	1001.1	219.5	147.4
87.5°	314.6	437.4	966.6	1803.9	3004.9	2927.9	3155.6	1438.5	180.2	95.1	70.5
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: P285848

CATALOG NUMBER: USSL-XL-C069-D-U-T4-AP-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9	3838.9
2.5°	3809.4	3806.1	3794.7	3789.7	3794.7	3789.7	3753.6	3756.9	3756.9	3738.9	3727.5
5°	3817.5	3809.4	3773.3	3766.8	3747.1	3716.0	3657.0	3643.8	3632.4	3602.9	3598.0
7.5°	3840.4	3829.0	3771.7	3745.5	3691.4	3635.7	3555.4	3507.8	3485.0	3448.9	3453.8
10°	3907.6	3883.0	3801.1	3750.4	3648.8	3557.0	3440.8	3368.6	3326.0	3271.9	3289.9
12.5°	4028.9	3991.3	3889.6	3801.1	3645.5	3509.5	3344.0	3211.3	3144.2	3081.9	3099.9
15°	4194.3	4153.4	4028.9	3894.5	3688.1	3489.8	3262.2	3052.4	2931.2	2850.9	2855.8
17.5°	4379.5	4343.5	4200.9	4022.3	3753.6	3476.8	3168.7	2887.0	2665.8	2551.1	2547.8
20°	4576.1	4554.8	4399.2	4158.3	3820.8	3447.2	3049.1	2675.5	2370.8	2177.5	2161.1
22.5°	4802.2	4792.4	4610.6	4292.7	3852.0	3380.1	2888.5	2413.4	2008.7	1746.6	1730.2
25°	5098.8	5084.0	4820.2	4386.1	3838.9	3267.0	2664.1	2098.8	1550.0	1248.5	1235.4
27.5°	5455.9	5382.3	5005.4	4433.6	3774.9	3088.4	2370.8	1631.9	1042.1	768.4	761.9
30°	5857.4	5713.2	5167.6	4438.5	3657.0	2839.4	1939.9	1055.1	606.3	432.5	429.3
32.5°	6378.4	6124.4	5343.0	4410.7	3476.8	2503.5	1386.1	604.6	304.7	232.6	232.6
35°	7404.0	6850.2	5567.3	4338.6	3226.0	2023.5	855.2	293.3	178.6	175.3	177.0
37.5°	8927.9	8025.0	5934.4	4222.2	2891.8	1458.2	439.1	163.9	163.9	170.4	172.0
40°	10273.0	9253.9	6463.6	4058.4	2447.8	922.4	209.8	154.0	163.9	165.5	168.7
42.5°	11338.0	10240.2	7022.3	3811.0	1926.8	491.6	175.3	149.1	152.4	150.7	157.3
45°	12189.9	11018.4	7453.2	3486.5	1359.9	252.4	181.9	144.1	132.7	132.7	136.0
47.5°	12853.5	11609.9	7723.6	3134.3	827.4	203.2	181.9	127.8	119.6	121.3	122.8
50°	13436.8	12052.3	7817.0	2700.1	416.1	206.5	175.3	121.3	106.5	108.1	111.4
52.5°	13856.2	12363.6	7746.5	2161.1	229.4	209.8	167.1	111.4	91.8	99.9	103.2
55°	14172.5	12511.1	7513.8	1536.9	208.1	206.5	162.2	99.9	81.9	98.4	103.2
57.5°	14351.0	12560.2	7119.0	1001.1	227.8	181.9	149.1	91.8	77.1	96.7	103.2
60°	14424.7	12470.0	6548.8	586.5	232.6	160.6	139.3	85.2	70.5	80.2	83.5
62.5°	14347.8	12239.1	5709.9	370.3	213.0	152.4	132.7	80.2	59.0	57.3	55.8
65°	14041.3	11667.3	4323.9	296.6	198.2	152.4	124.5	70.5	45.9	34.4	31.2
67.5°	13309.0	10487.6	2446.1	293.3	193.3	149.1	113.1	63.9	36.0	18.0	14.7
68°	13087.8	10148.4	2061.2	298.1	198.2	149.1	111.4	60.6	34.4	14.7	11.4
70°	11739.3	8318.3	711.1	286.7	226.1	157.3	106.5	52.5	27.9	6.6	4.9
72.5°	8939.3	5110.3	314.6	231.1	249.1	163.9	106.5	50.8	22.9	1.6	0.0
75°	5197.1	1258.3	268.7	155.7	208.1	195.0	122.8	59.0	21.3	0.0	0.0
77.5°	1259.9	290.0	234.3	90.1	163.9	213.0	145.8	65.5	22.9	0.0	0.0
80°	299.8	226.1	227.8	57.3	131.1	190.0	126.1	70.5	32.8	0.0	0.0
82.5°	198.2	178.6	203.2	31.2	75.4	140.9	88.5	44.2	40.9	0.0	0.0
85°	134.4	163.9	116.4	18.0	29.5	47.5	36.0	6.6	8.2	0.0	0.0
87.5°	75.4	47.5	19.7	8.2	6.6	4.9	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)