

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: P285777

Luminaire Tested: **USSL-XL-C04-D-U-T2-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285777
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-C04-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: 36268.7 lumens
Efficiency: N/A
Efficacy: 137.4 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): 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

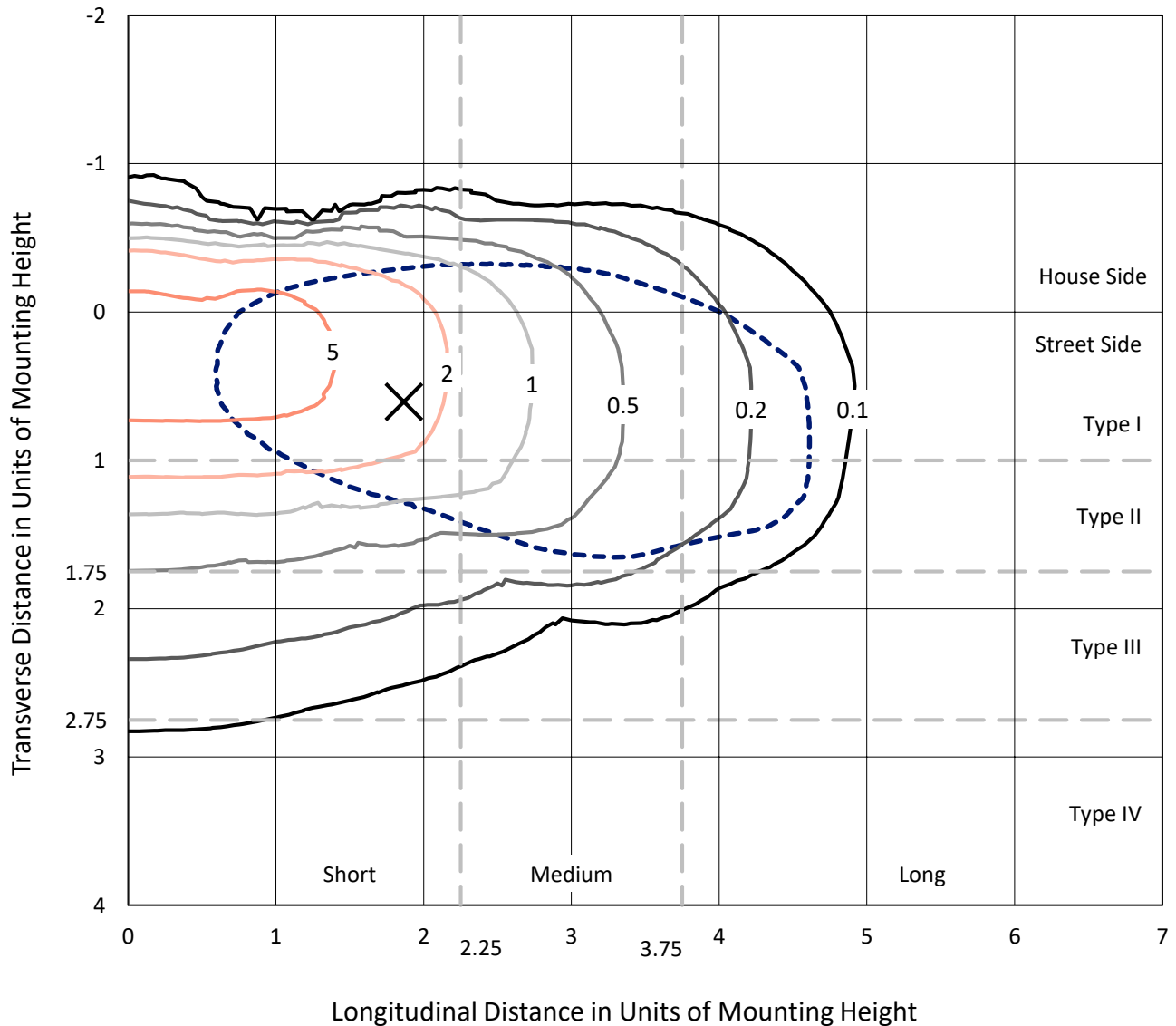


REPORT NUMBER: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

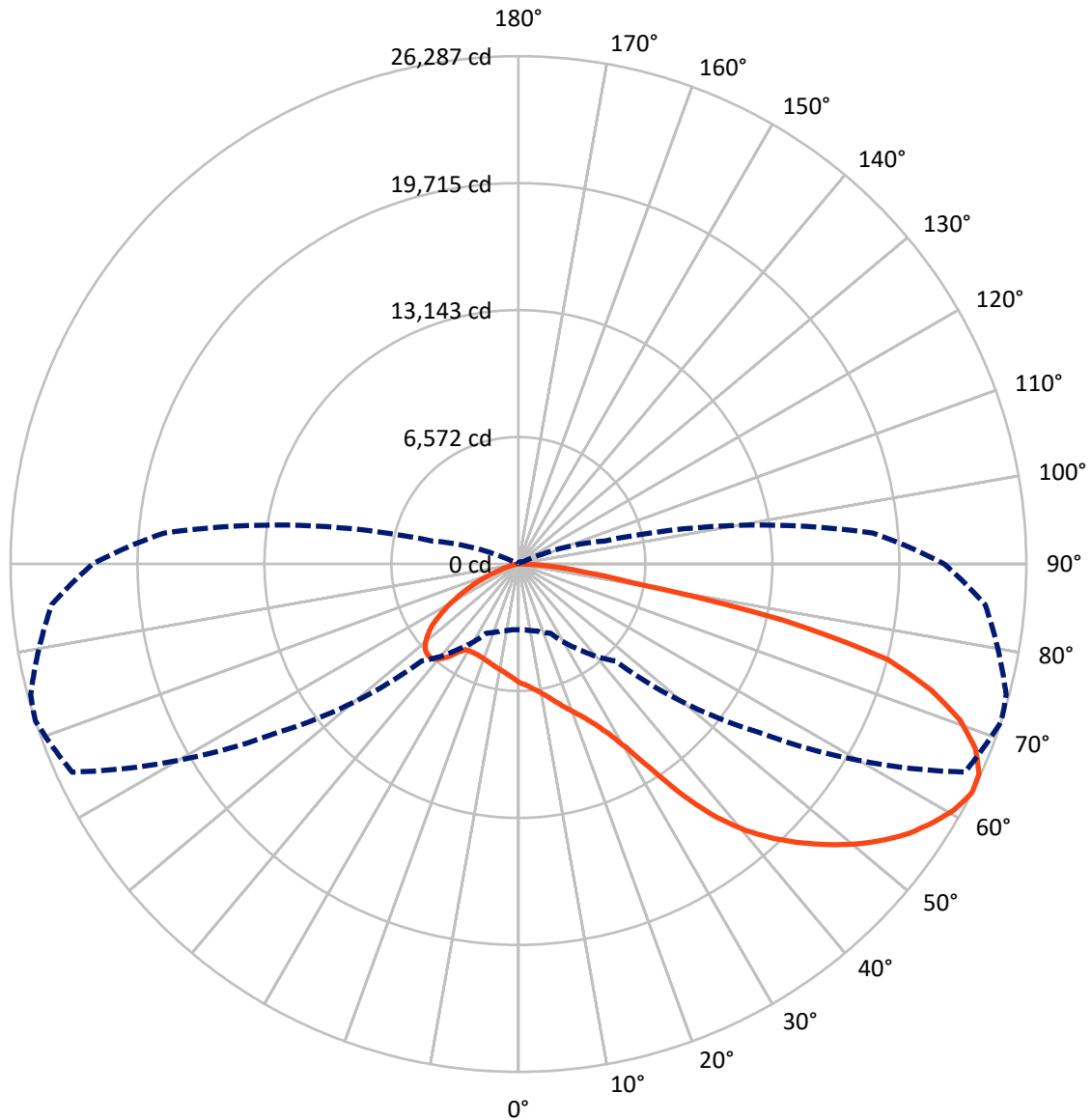


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-7050-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-7050-HSS

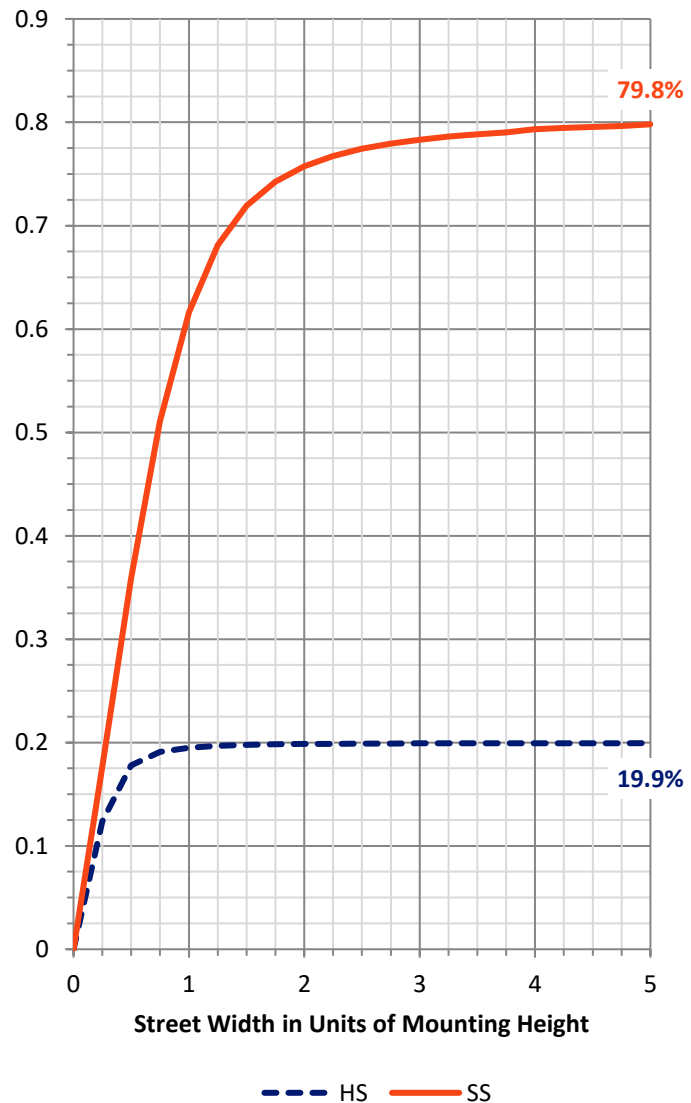
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7317.1	0.0	7317.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28951.6	0.0	28951.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	36268.7	0.0	36268.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.2	1.6
10°-20°	1777.4	4.9
20°-30°	2999.1	8.3
30°-40°	4589.9	12.7
40°-50°	6394.4	17.6
50°-60°	7411.1	20.4
60°-70°	7265.5	20.0
70°-80°	4536.1	12.5
80°-90°	709.0	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°	36268.7	100.0
0°-180°	36268.7	100.0



REPORT NUMBER: P285777

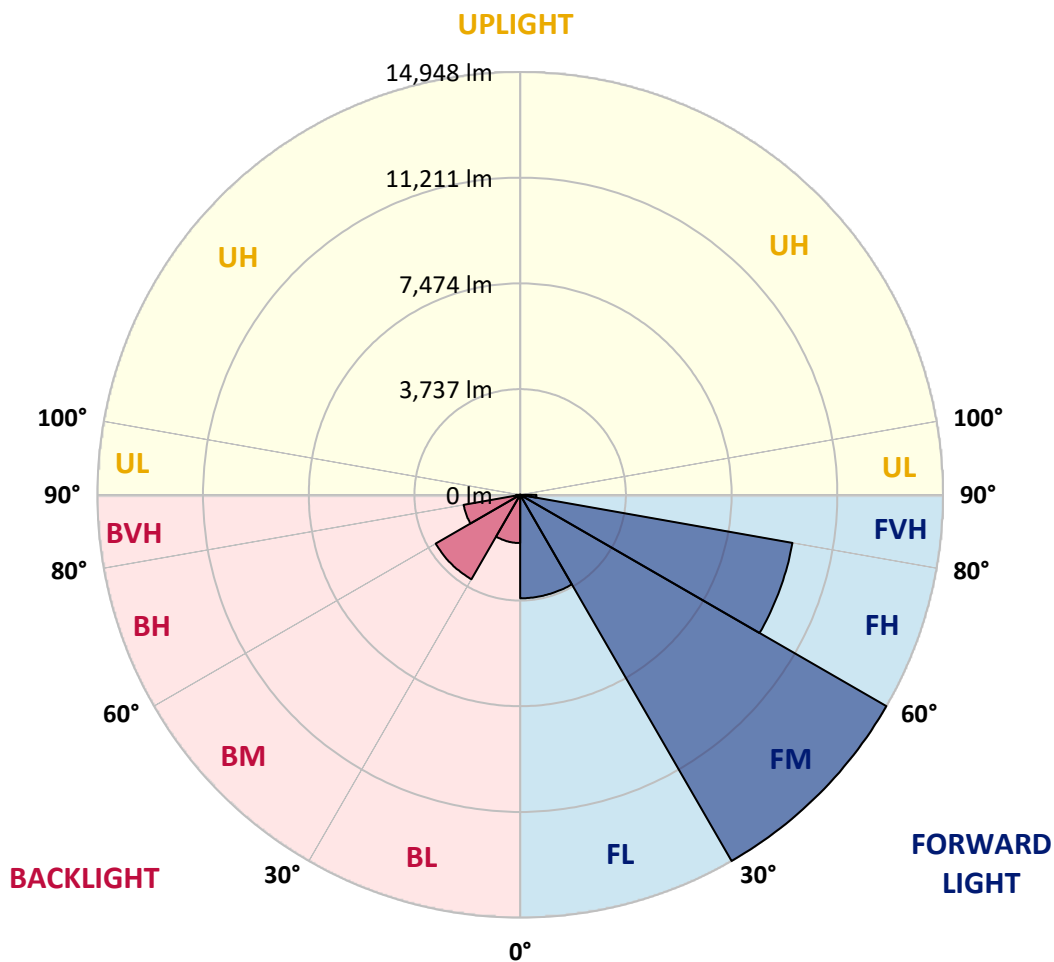
CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3656.9	10.1			
FM	(30°-60°)	14948.3	41.2			
FH	(60°-80°)	9773.3	26.9			G4/12000
FVH	(80°-90°)	573.2	1.6			G4/750
BL	(0°-30°)	1705.8	4.7	B3/2500		
BM	(30°-60°)	3447.1	9.5	B3/5000		
BH	(60°-80°)	2028.4	5.6	B3/2500		G3/2500
BVH	(80°-90°)	135.8	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: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9
2.5°	6670.0	6651.9	6632.4	6608.5	6589.0	6529.0	6474.9	6371.5	6244.0	6237.9	6134.5
5°	7124.4	7095.9	7073.5	7031.4	6985.0	6878.4	6753.9	6580.0	6398.5	6370.0	6187.0
7.5°	7503.9	7473.9	7448.3	7394.4	7341.9	7211.5	7050.9	6817.0	6591.9	6534.9	6260.5
10°	7835.3	7805.3	7793.3	7734.8	7697.3	7554.9	7355.4	7102.0	6819.9	6732.9	6371.5
12.5°	8184.9	8153.3	8132.3	8070.8	8025.9	7874.3	7697.3	7413.9	7094.4	7001.4	6530.5
15°	8529.8	8501.2	8453.3	8420.3	8367.8	8210.3	8043.8	7748.4	7430.4	7313.4	6743.4
17.5°	8847.7	8823.8	8787.7	8759.2	8715.8	8552.3	8370.8	8120.3	7794.8	7650.9	6987.9
20°	9081.8	9083.2	9068.3	9053.2	9068.3	8934.7	8787.7	8508.8	8174.4	8006.4	7241.4
22.5°	9282.7	9294.7	9314.2	9336.8	9432.7	9366.8	9189.8	8963.3	8604.8	8406.8	7566.8
25°	9381.7	9390.7	9477.7	9624.7	9840.6	9839.2	9674.2	9510.7	9170.3	8964.7	8019.8
27.5°	9440.2	9452.2	9573.8	9869.2	10250.2	10308.7	10241.2	10169.2	9932.2	9726.7	8618.3
30°	9437.2	9453.7	9641.2	10011.7	10572.6	10869.6	10875.6	11141.0	11028.6	10887.6	9627.7
32.5°	9212.2	9218.3	9479.2	10025.2	10815.6	11367.5	11615.0	12311.0	12658.9	12684.5	11492.1
35°	8678.2	8754.8	9144.7	9903.7	10991.1	11855.0	12495.5	13806.4	14730.3	14773.7	13363.9
37.5°	8294.4	8340.8	8784.8	9686.2	11072.0	12363.5	13506.4	15601.7	16612.7	16506.1	14913.2
40°	7874.3	7931.3	8387.3	9395.3	11021.1	12800.0	14536.8	17325.0	18135.0	17968.5	16233.1
42.5°	7409.3	7457.4	7886.4	8964.7	10859.1	13114.9	15531.2	18814.5	19436.9	19232.9	17433.0
45°	6951.9	6983.5	7389.9	8384.3	10547.2	13306.9	16438.6	20155.4	20591.8	20419.3	18538.5
47.5°	6371.5	6409.0	6906.9	7830.9	9975.7	13300.9	17224.5	21347.8	21712.2	21520.2	19523.9
50°	4913.6	4937.5	6037.0	7328.4	9237.8	13036.9	17898.0	22427.7	22771.1	22552.1	20498.8
52.5°	4451.6	4471.1	4811.6	6702.9	8432.4	12489.4	18340.5	23423.6	23734.0	23500.1	21418.2
55°	4231.1	4244.7	4409.6	5455.1	7725.8	11550.6	18535.4	24346.0	24581.5	24278.5	22165.2
57.5°	3919.2	3946.2	4195.2	4672.1	7034.5	10109.1	18256.5	25091.4	25268.4	24971.5	22892.6
60°	3682.2	3698.7	3908.7	4286.7	6199.0	8496.8	17260.6	25595.4	25883.4	25614.9	23576.5
62.5°	3451.2	3457.2	3632.7	4000.2	5473.0	7292.4	15561.2	25563.9	26261.4	26094.8	24173.5
63°	3401.7	3407.7	3586.2	3947.7	5366.6	7093.0	15189.2	25487.4	26286.8	26135.3	24252.9
65°	3191.8	3200.7	3374.7	3707.7	4904.6	6461.5	13542.3	25016.4	26201.4	26196.8	24359.5
67.5°	2878.3	2894.8	3043.3	3328.2	4274.7	5663.6	11003.1	24514.0	25514.4	25568.4	23764.0
70°	2498.8	2510.8	2678.8	2918.8	3596.7	4808.6	8426.3	22907.6	24251.5	24101.5	22384.1
72.5°	2096.8	2117.8	2278.4	2464.3	2983.3	3967.2	6101.5	20167.4	22355.6	22466.6	20069.8
75°	1829.8	1841.9	1979.8	2111.9	2477.8	3157.2	4081.1	14481.3	19766.8	19795.3	17313.0
77.5°	1517.9	1532.8	1675.4	1799.8	2009.8	2377.4	2815.3	7526.3	14055.3	14853.2	13443.3
80°	836.9	971.9	1207.4	1298.9	1454.9	1444.4	1790.8	3977.7	6220.0	7776.9	8879.3
82.5°	141.0	181.5	487.4	635.9	693.0	608.9	870.0	2189.9	3467.7	3979.2	4778.6
85°	60.0	87.0	255.0	279.0	174.0	169.5	343.5	1145.9	1984.3	2285.8	2462.8
87.5°	7.5	13.5	66.0	87.0	40.5	55.5	69.0	358.5	691.5	794.9	898.5
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: P285777

CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9	6138.9
2.5°	6085.0	6050.5	5971.1	5909.5	5864.5	5803.1	5737.0	5689.0	5638.0	5615.6	5624.6
5°	6094.0	6017.5	5848.0	5714.6	5566.1	5456.6	5314.0	5242.1	5164.0	5125.0	5123.6
7.5°	6118.0	5998.0	5731.0	5521.0	5309.6	5138.6	4952.6	4825.1	4756.1	4705.1	4699.1
10°	6177.9	6007.0	5642.5	5357.6	5084.6	4855.1	4628.6	4463.7	4369.1	4316.7	4324.2
12.5°	6285.9	6040.1	5579.5	5224.0	4873.1	4600.1	4310.6	4117.2	4001.7	3937.2	3955.1
15°	6434.4	6112.0	5515.1	5059.1	4646.6	4325.7	4016.7	3797.7	3668.7	3613.2	3631.2
17.5°	6601.0	6216.9	5470.0	4874.6	4408.1	4045.2	3758.7	3544.2	3328.2	3284.7	3284.7
20°	6787.0	6334.0	5462.5	4699.1	4172.6	3778.2	3448.2	3268.2	2954.8	2848.3	2825.8
22.5°	7033.0	6499.0	5453.5	4538.6	3922.2	3502.2	3097.2	2813.7	2407.4	2224.3	2206.3
25°	7371.9	6727.0	5468.6	4406.6	3694.2	3191.8	2614.2	2159.9	1817.8	1588.4	1576.4
27.5°	7826.3	7031.4	5516.6	4283.7	3466.2	2809.3	2024.8	1540.4	1276.4	1070.9	1009.4
30°	8685.8	7512.9	5600.5	4174.2	3200.7	2296.3	1439.9	1042.4	853.4	711.0	679.4
32.5°	10328.2	8721.8	5716.0	4052.6	2873.8	1691.8	961.4	695.9	543.0	460.4	478.4
35°	11966.1	10229.2	6266.4	3874.1	2443.3	1126.4	642.0	444.0	341.9	339.0	358.5
37.5°	13441.9	11562.6	7010.4	3674.7	1867.3	757.4	385.5	295.5	286.5	311.9	350.9
40°	14665.8	12645.5	7638.9	3395.7	1282.4	463.5	251.9	268.5	255.0	265.5	260.9
42.5°	15802.7	13620.4	8148.8	3079.2	755.9	267.0	219.0	249.0	229.5	220.5	202.4
45°	16825.6	14539.8	8405.3	2581.3	440.9	212.9	199.5	235.5	221.9	205.5	178.5
47.5°	17757.0	15346.7	8573.3	1900.3	253.5	186.0	186.0	211.5	208.5	189.0	174.0
50°	18722.9	16135.7	8556.8	1166.9	214.5	171.0	177.0	177.0	187.5	147.0	133.4
52.5°	19576.4	16845.1	8214.9	661.5	198.0	162.0	160.5	144.0	152.9	113.9	106.5
55°	20269.3	17397.1	7640.4	436.5	187.5	160.5	141.0	124.5	117.0	82.5	85.5
57.5°	20950.3	17922.1	6761.4	345.0	195.0	154.5	129.0	106.5	91.5	64.4	61.5
60°	21607.2	18340.5	5830.0	310.4	205.5	154.5	106.5	90.0	61.5	49.5	43.5
62.5°	22004.7	18432.0	4799.7	280.4	211.5	144.0	96.0	73.5	45.0	33.0	30.0
63°	22033.2	18405.0	4616.6	276.0	212.9	144.0	96.0	70.5	43.5	30.0	27.0
65°	21989.6	18064.5	3902.7	260.9	217.5	138.0	91.5	57.0	34.4	21.0	18.0
67.5°	21262.2	16926.1	2893.2	244.5	208.5	136.5	83.9	46.5	27.0	13.5	10.5
70°	19481.9	15159.2	1933.4	217.5	201.0	133.4	99.0	39.0	22.5	7.5	6.0
72.5°	16995.1	13252.9	1294.3	178.5	175.5	109.5	60.0	33.0	16.5	3.0	0.0
75°	14364.3	10665.7	801.0	136.5	142.5	93.0	48.0	28.5	13.5	0.0	0.0
77.5°	11181.6	7878.9	569.9	87.0	100.5	79.5	40.5	24.0	10.5	0.0	0.0
80°	7628.4	5339.6	412.5	48.0	52.5	52.5	33.0	18.0	6.0	0.0	0.0
82.5°	4424.7	2992.2	210.0	24.0	22.5	27.0	15.1	9.0	1.5	0.0	0.0
85°	2158.3	1325.9	36.0	13.5	12.0	12.0	6.0	0.0	0.0	0.0	0.0
87.5°	732.0	343.5	4.5	6.0	4.5	1.5	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)