

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: P285797

Luminaire Tested: **USSL-XL-C04-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
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-T3-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39177.1 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

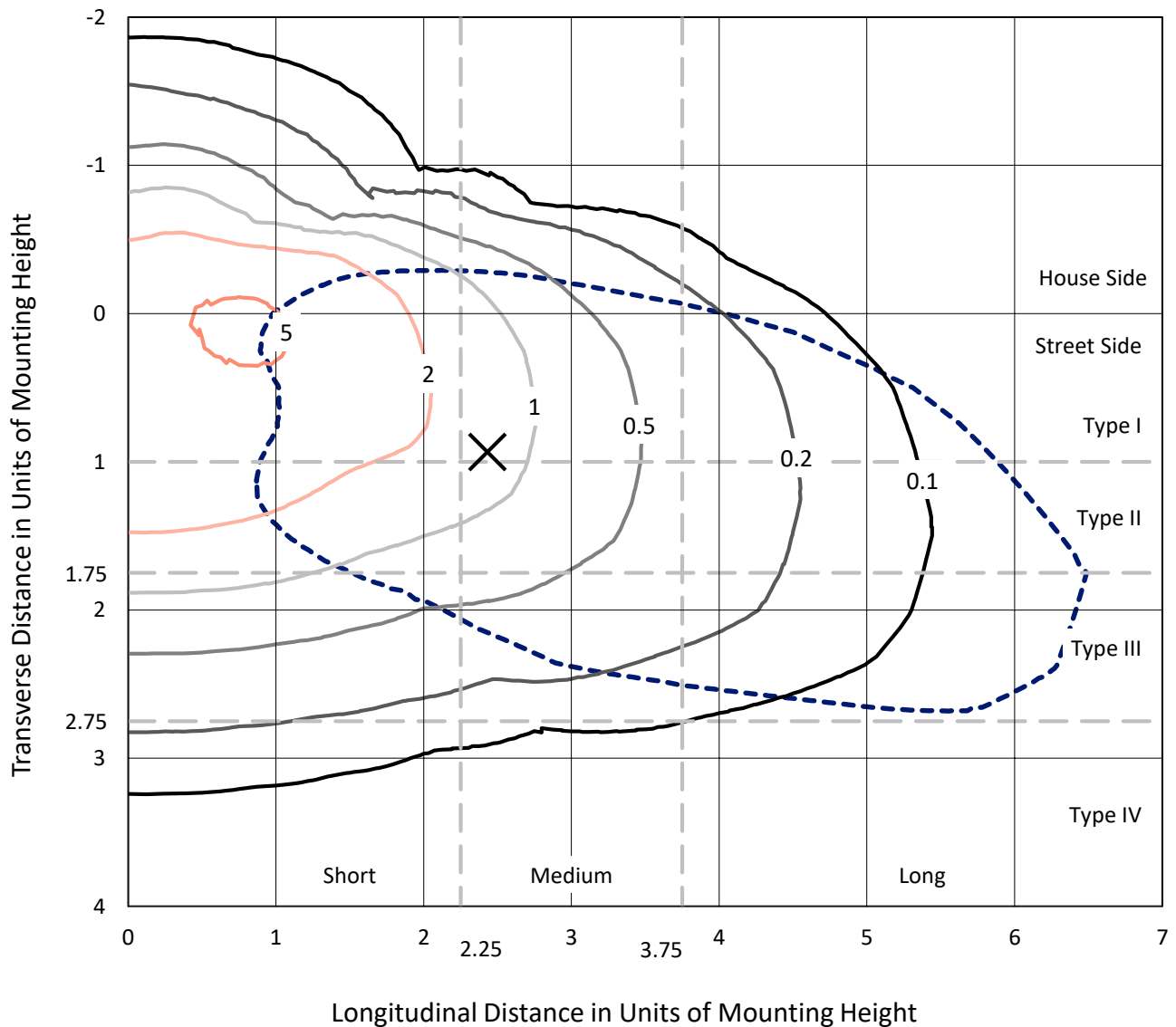
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285797
 CATALOG NUMBER: USSL-XL-C04-D-U-T3-AP-7050

Iso-Footcandle Lines of Horizontal Illumination

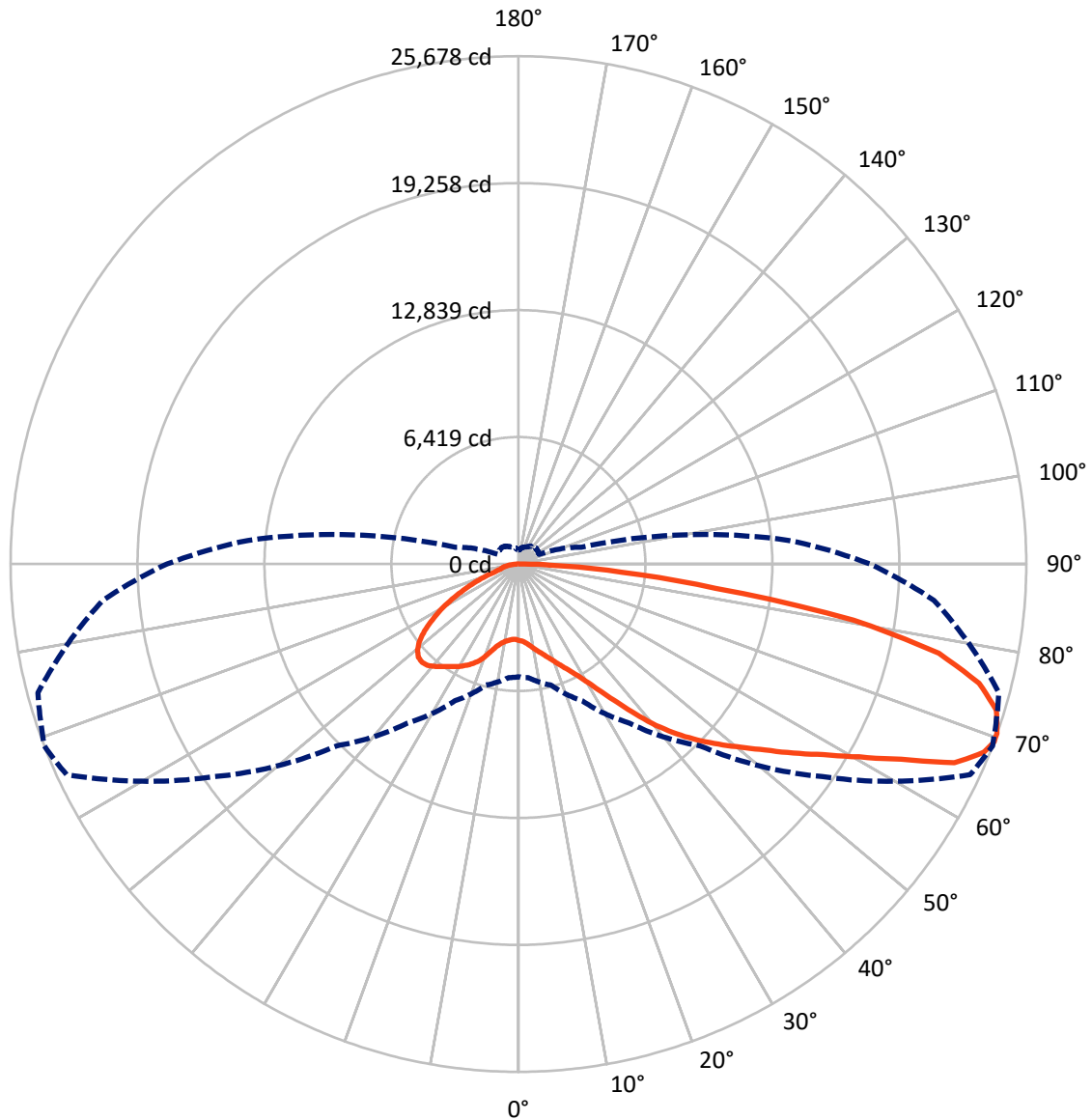
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P285797
CATALOG NUMBER: USSL-XL-C04-D-U-T3-AP-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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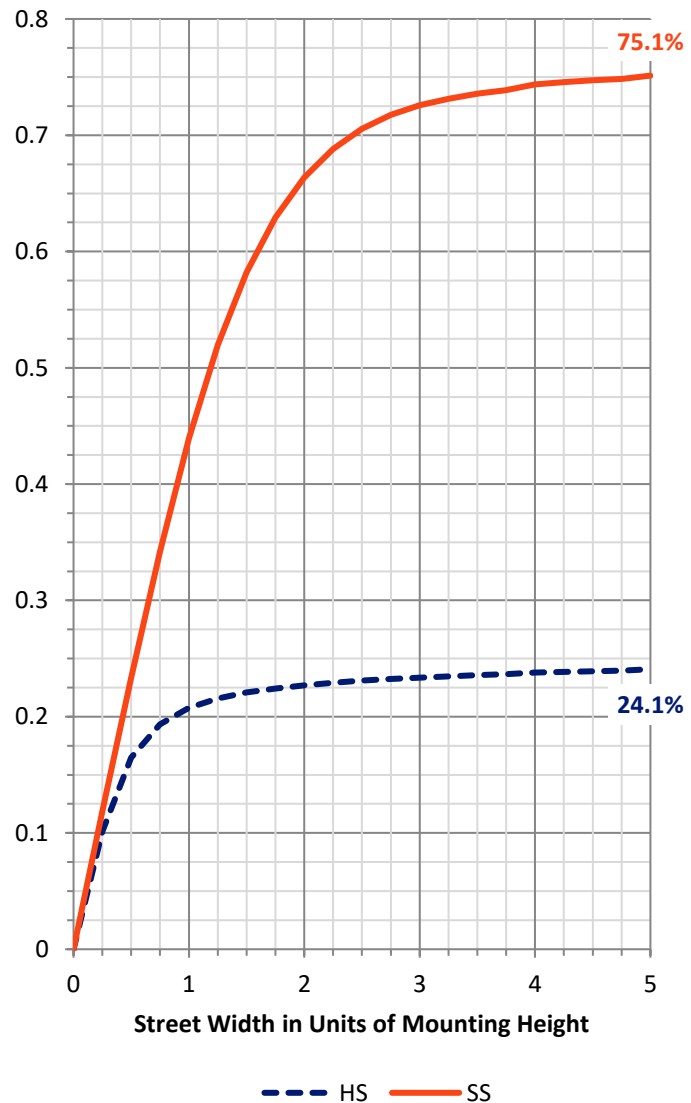
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9631.8	0.0	9631.8
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	29545.3	0.0	29545.3
	% Fixture	75.4	0.0	75.4
Total	Lumens	39177.1	0.0	39177.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.7	1.0
10°-20°	1240.8	3.2
20°-30°	2324.0	5.9
30°-40°	3948.7	10.1
40°-50°	6059.5	15.5
50°-60°	7917.0	20.2
60°-70°	9014.9	23.0
70°-80°	6806.1	17.4
80°-90°	1485.3	3.8
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°	39177.1	100.0
0°-180°	39177.1	100.0

Coefficient of Utilization



REPORT NUMBER: P285797

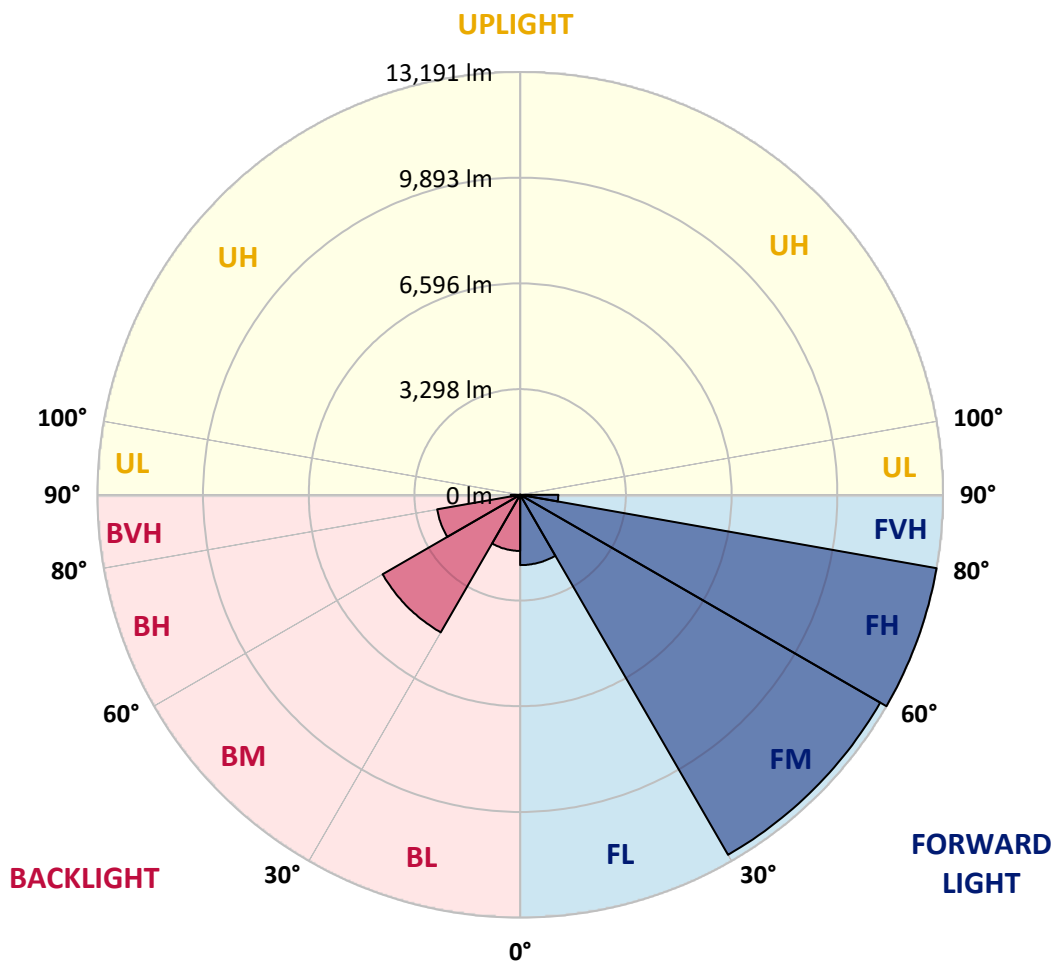
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.2	5.6			
FM	(30°-60°)	12969.1	33.1			
FH	(60°-80°)	13191.1	33.7			G5
FVH	(80°-90°)	1190.8	3.0			G5
BL	(0°-30°)	1751.3	4.5	B3/2500		
BM	(30°-60°)	4956.0	12.7	B3/5000		
BH	(60°-80°)	2630.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	294.5	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-G5

Type III Medium





REPORT NUMBER: P285797

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1
2.5°	4012.1	4024.1	4022.6	4016.7	4013.6	3997.2	3976.2	3949.2	3904.1	3883.2	3856.1
5°	4183.1	4192.1	4193.6	4183.1	4171.1	4145.7	4102.1	4060.2	4010.7	3980.7	3928.2
7.5°	4328.6	4336.2	4349.6	4340.6	4334.7	4313.7	4271.6	4222.1	4157.7	4115.7	4042.1
10°	4445.6	4451.6	4462.2	4477.1	4505.6	4487.6	4438.1	4403.7	4345.2	4280.6	4189.1
12.5°	4529.6	4525.1	4555.1	4582.2	4640.7	4660.1	4625.6	4600.1	4543.2	4477.1	4369.1
15°	4568.6	4567.1	4619.6	4687.1	4774.1	4805.6	4805.6	4777.1	4745.6	4694.6	4580.6
17.5°	4652.6	4658.6	4693.1	4780.1	4873.1	4946.6	5017.0	5020.1	4996.1	4961.6	4843.1
20°	4781.6	4792.1	4810.1	4879.1	4982.6	5111.6	5243.5	5291.6	5279.6	5266.1	5173.1
22.5°	4943.6	4948.0	4943.6	5003.6	5141.6	5315.6	5506.1	5585.6	5593.0	5594.6	5548.0
25°	5203.0	5183.5	5134.0	5188.1	5348.6	5549.5	5782.1	5914.0	5948.5	5980.0	6091.0
27.5°	5677.0	5632.0	5539.0	5521.0	5612.5	5833.1	6121.0	6341.5	6391.0	6478.0	6773.4
30°	6442.0	6382.0	6295.0	6029.5	5993.5	6182.5	6548.5	6863.4	6962.4	7226.4	7566.8
32.5°	7217.4	7178.4	7080.9	6826.0	6555.9	6626.5	6986.4	7478.3	7691.4	8225.4	8540.3
35°	7883.3	7863.8	7808.4	7683.9	7370.4	7172.4	7485.9	8169.8	8567.3	9401.2	9684.7
37.5°	8525.3	8516.3	8519.3	8349.8	8217.8	7932.8	8058.8	8976.7	9629.2	10632.6	10823.1
40°	9086.2	9090.8	9137.3	9059.3	9036.7	8859.8	8733.8	9837.7	10731.6	11850.5	11895.5
42.5°	9546.7	9551.2	9767.2	9650.2	9789.7	9750.7	9569.2	10641.6	11745.5	12835.9	12830.0
45°	9849.7	9857.2	10070.2	10164.7	10460.2	10589.1	10454.1	11466.5	12692.0	13747.9	13629.4
47.5°	10074.7	10068.6	10190.2	10571.1	11075.1	11330.0	11379.5	12404.0	13609.9	14592.3	14386.8
50°	10196.1	10209.7	10442.1	10950.6	11694.5	12050.0	12321.4	13510.9	14551.8	15406.7	15117.2
52.5°	10272.7	10340.2	10680.6	11285.1	12254.0	12810.5	13150.9	14737.8	15613.7	16252.6	15891.2
55°	10326.6	10449.7	10785.6	11460.6	12602.0	13426.9	13929.3	16003.6	16867.6	17211.1	16740.1
57.5°	9941.2	10059.6	10605.6	11487.5	12876.4	13933.9	14758.8	17340.1	18175.5	18393.0	17580.0
60°	9282.7	9353.2	10056.6	11276.1	12816.4	14394.3	15847.7	18925.5	19799.9	19816.3	18464.9
62.5°	8604.8	8633.3	9344.2	10724.1	12546.5	14545.7	16936.6	21038.8	21725.7	21515.8	19405.4
65°	7704.8	7736.3	8469.8	9816.7	11894.0	14377.8	17827.5	23266.1	24227.5	23666.5	20338.3
67.5°	6529.0	6598.0	7278.9	8526.8	10733.1	13728.4	18466.4	24800.5	25389.9	24906.9	20983.3
69°	5705.5	5770.0	6341.5	7634.4	9828.7	12996.4	18734.9	25205.4	25677.9	25151.4	21091.3
70°	5113.1	5162.6	5698.0	6966.9	9120.8	12370.9	18793.4	25314.9	25662.8	25160.4	21032.8
72.5°	3644.7	3686.7	3977.7	4874.6	6912.9	10362.6	18506.9	25017.9	25272.9	24548.4	20266.3
75°	2695.3	2728.3	2902.2	3220.2	4024.1	7332.9	16722.1	23783.5	24055.0	23210.5	18669.0
77.5°	1955.8	1982.9	2150.9	2461.3	2831.7	3452.7	11592.6	21464.7	21731.7	21053.7	16071.2
80°	1334.8	1363.3	1514.9	1777.3	2069.9	2297.8	5692.0	15709.7	17181.1	16851.1	11453.1
82.5°	250.5	307.5	651.0	922.4	1163.9	1244.9	2152.3	8637.8	10037.1	10238.1	5972.5
85°	166.5	180.0	397.5	387.0	379.4	556.4	842.9	4141.1	5239.1	5428.1	2578.3
87.5°	82.5	87.0	118.5	163.4	208.5	250.5	277.5	1091.9	1577.9	1691.8	481.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: USSL-XL-C04-D-U-T3-AP-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1	3865.1
2.5°	3845.6	3838.2	3815.6	3806.7	3800.7	3797.7	3761.7	3755.6	3737.7	3725.7	3715.2
5°	3902.7	3890.7	3838.2	3818.7	3788.7	3763.2	3703.2	3677.7	3659.7	3635.7	3625.2
7.5°	4003.1	3982.2	3902.7	3866.7	3814.2	3770.7	3688.2	3649.2	3614.7	3581.7	3575.7
10°	4139.7	4100.6	3991.2	3935.6	3859.2	3808.2	3712.2	3637.2	3586.2	3548.8	3547.2
12.5°	4318.1	4259.6	4127.7	4054.1	3959.7	3881.7	3772.2	3659.7	3575.7	3515.7	3512.7
15°	4531.1	4469.6	4336.2	4241.6	4130.6	4025.7	3850.2	3683.7	3544.2	3448.2	3436.2
17.5°	4792.1	4733.6	4612.2	4535.6	4379.6	4172.6	3923.6	3674.7	3475.2	3343.2	3323.7
20°	5122.1	5138.6	5024.6	4858.1	4598.6	4294.2	3959.7	3628.2	3338.7	3154.3	3127.2
22.5°	5582.5	5638.0	5447.6	5141.6	4765.1	4358.6	3944.6	3505.2	3151.2	2927.8	2905.3
25°	6146.5	6130.0	5786.5	5350.1	4850.6	4357.1	3860.7	3329.7	2912.7	2660.8	2644.2
27.5°	6736.0	6637.0	6106.0	5495.6	4865.6	4274.7	3695.7	3065.8	2638.3	2428.3	2378.8
30°	7487.3	7211.5	6433.0	5618.5	4816.1	4117.2	3397.2	2812.2	2480.8	2252.8	2219.9
32.5°	8355.8	7896.9	6800.4	5656.1	4706.6	3875.6	3073.3	2695.3	2377.2	2117.8	2080.4
35°	9365.2	8774.3	7226.4	5669.5	4498.1	3517.2	2897.8	2627.8	2308.4	2014.3	1964.8
37.5°	10421.1	9704.2	7751.4	5654.6	4255.2	3124.3	2774.8	2530.3	2230.3	1990.4	1961.9
40°	11375.1	10599.6	8343.9	5612.5	3922.2	2869.3	2641.3	2395.3	2162.8	1981.4	1958.8
42.5°	12249.5	11379.5	8910.8	5542.0	3506.7	2687.8	2494.3	2294.8	2077.3	1855.4	1810.3
45°	13006.9	12099.5	9330.7	5374.0	3041.7	2501.8	2317.3	2155.3	1949.8	1729.3	1684.4
47.5°	13656.4	12693.5	9660.7	5086.0	2666.8	2327.9	2116.3	1988.8	1808.8	1598.9	1553.9
50°	14319.4	13176.4	9854.2	4610.6	2353.3	2128.3	1916.8	1795.4	1640.8	1487.9	1460.9
52.5°	15030.2	13960.8	10136.1	3827.7	2063.8	1918.3	1705.4	1573.4	1459.4	1394.9	1369.4
55°	15748.7	14656.8	10239.7	2894.8	1810.3	1753.4	1505.9	1334.8	1253.9	1213.4	1207.4
57.5°	16462.7	15250.7	9885.7	2060.9	1642.3	1562.8	1292.9	1130.9	1034.9	1063.4	1107.0
60°	17193.1	15684.2	8981.3	1612.3	1510.4	1334.8	1112.9	992.9	950.9	919.5	920.9
62.5°	17868.0	15886.6	7442.4	1369.4	1382.9	1193.9	1049.9	932.9	891.0	836.9	820.5
65°	18316.4	15529.8	5809.0	1267.4	1267.4	1157.9	1046.9	934.4	877.4	782.9	766.4
67.5°	18187.5	14599.8	4298.6	1175.9	1193.9	1172.9	1072.4	931.4	861.0	771.0	764.9
69°	17772.0	13708.9	3301.3	1148.9	1181.9	1186.5	1102.4	946.4	879.0	742.5	709.4
70°	17355.0	13021.9	2732.7	1126.4	1178.9	1195.4	1126.4	964.4	865.4	697.4	676.4
72.5°	15937.7	11006.1	1376.9	1039.4	1174.4	1205.8	1178.9	1031.9	857.9	672.0	654.0
75°	14011.9	8465.3	883.4	965.9	1137.0	1217.9	1220.9	1094.9	861.0	656.9	634.5
77.5°	11226.6	4907.5	733.5	883.4	1066.4	1193.9	1234.4	1142.9	896.9	682.5	656.9
80°	5969.5	1940.9	589.4	754.4	976.4	1121.9	1196.9	1126.4	887.9	569.9	553.5
82.5°	2642.8	603.0	432.0	592.5	767.9	980.9	1016.9	991.4	776.9	345.0	394.5
85°	742.5	249.0	288.0	426.0	530.9	694.4	796.4	799.5	603.0	150.0	34.4
87.5°	76.5	57.0	83.9	163.4	306.0	481.5	582.0	557.9	403.5	127.5	3.0
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)