

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: P285772

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285772
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-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K 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: 35622.2 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 II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

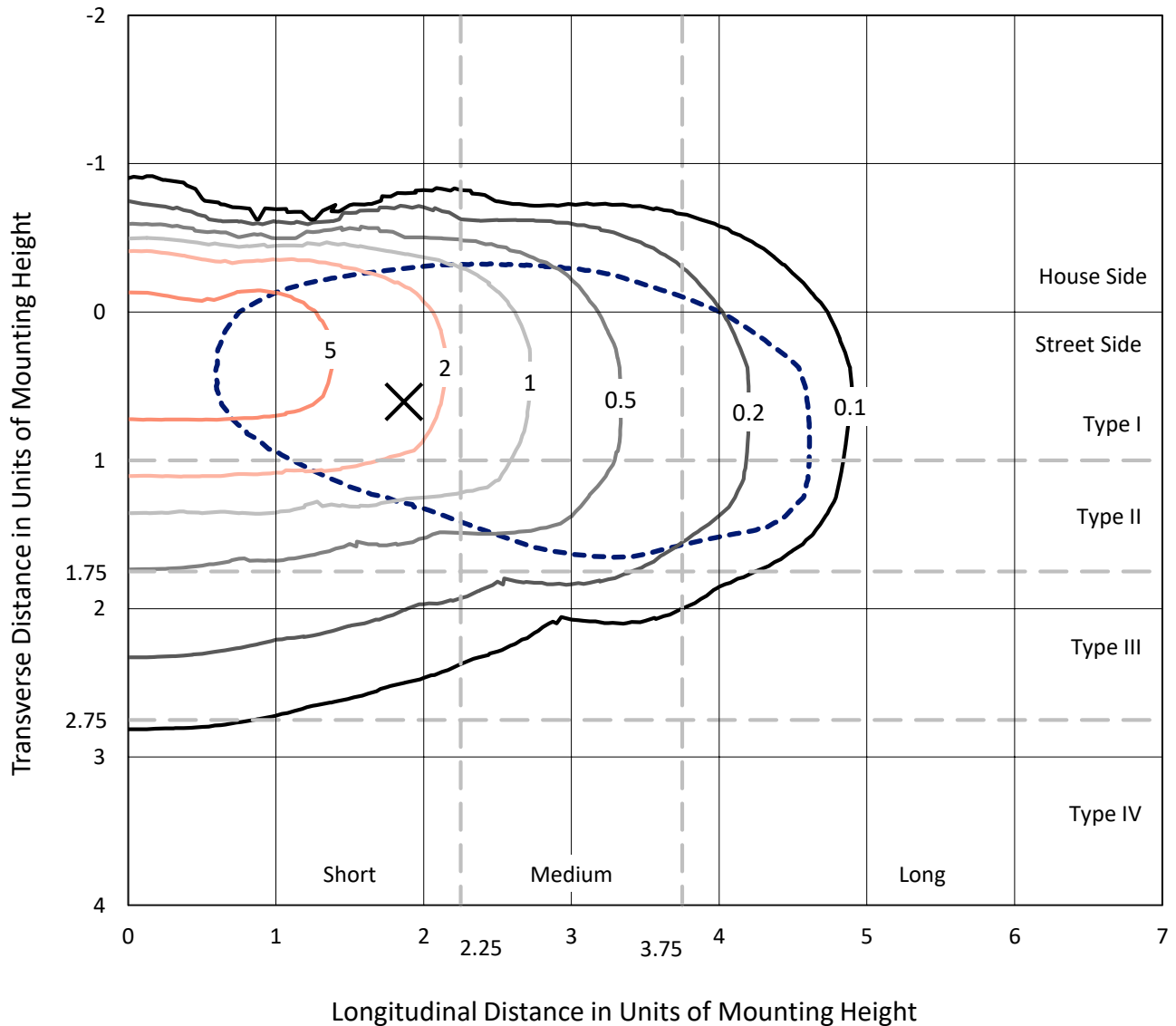
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285772
 CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-HSS

Iso-Footcandle Lines of Horizontal Illumination

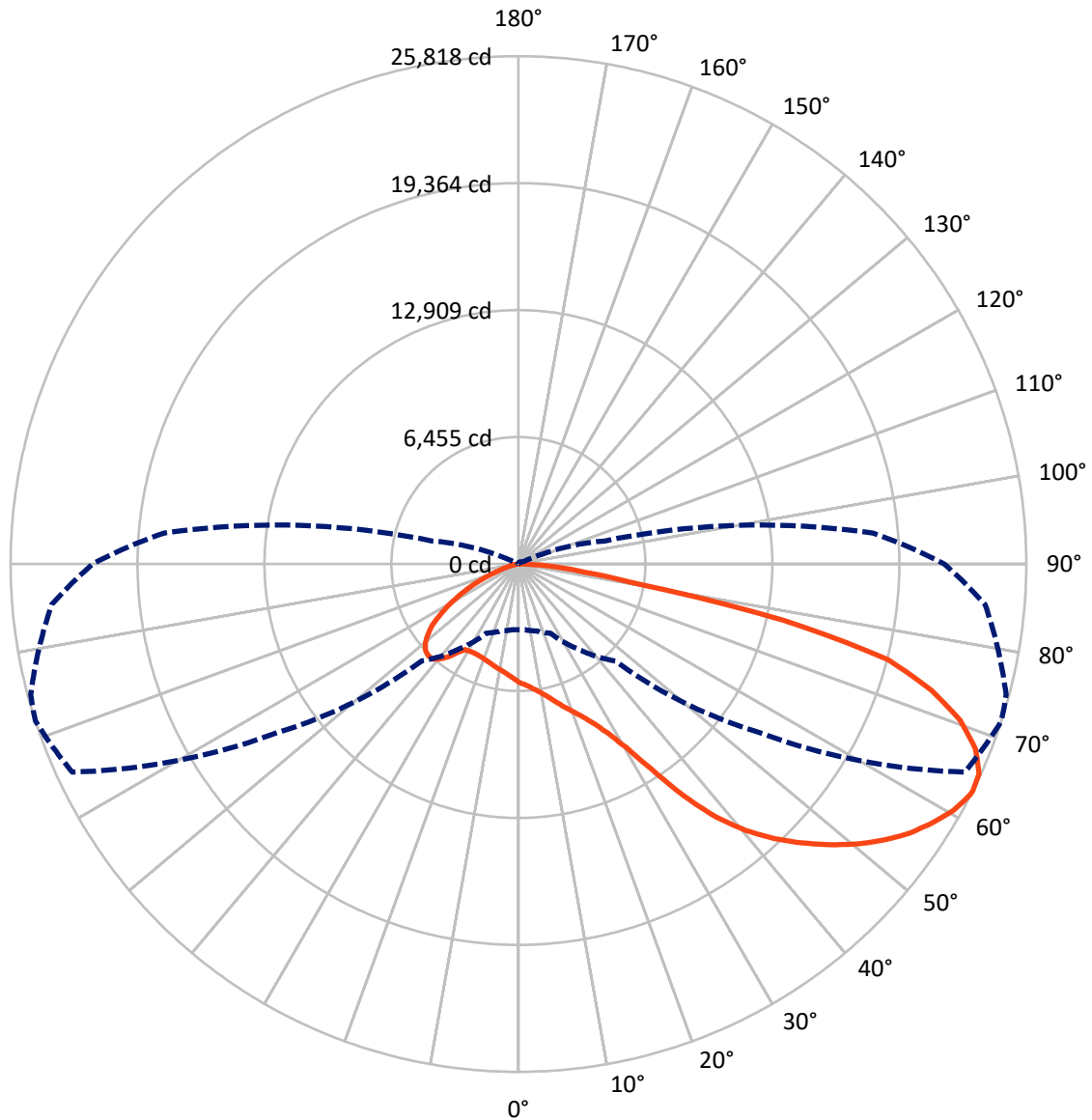
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P285772
CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285772

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

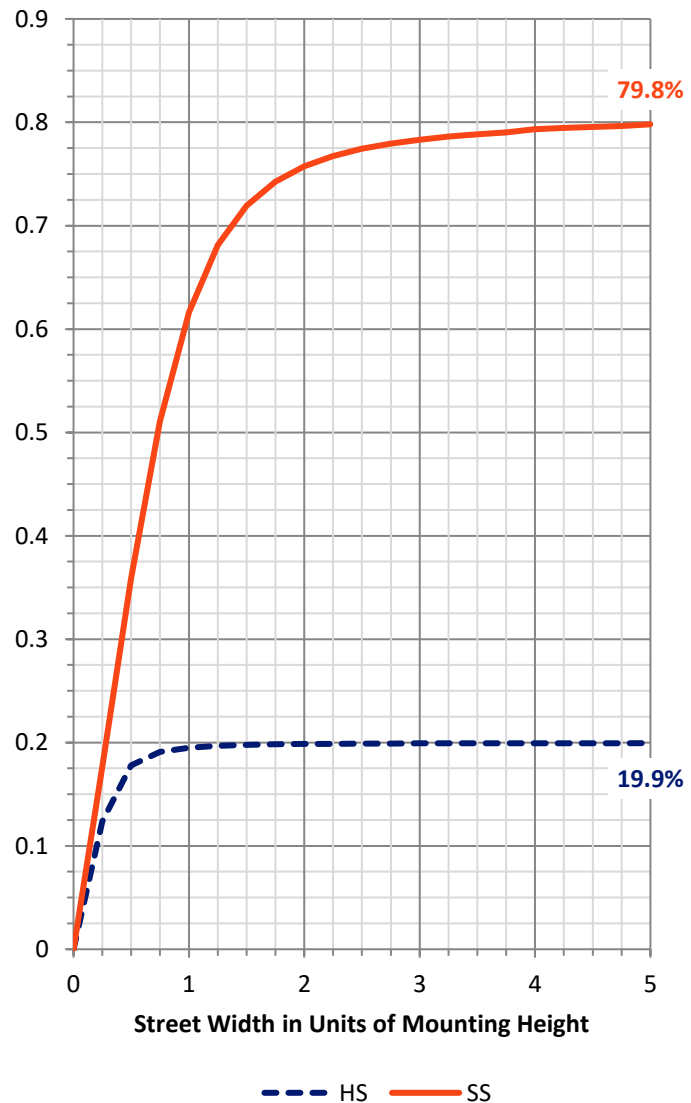
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7186.7	0.0	7186.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28435.5	0.0	28435.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	35622.2	0.0	35622.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.7	1.6
10°-20°	1745.7	4.9
20°-30°	2945.6	8.3
30°-40°	4508.1	12.7
40°-50°	6280.4	17.6
50°-60°	7279.0	20.4
60°-70°	7136.0	20.0
70°-80°	4455.3	12.5
80°-90°	696.4	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°	35622.2	100.0
0°-180°	35622.2	100.0



REPORT NUMBER: P285772

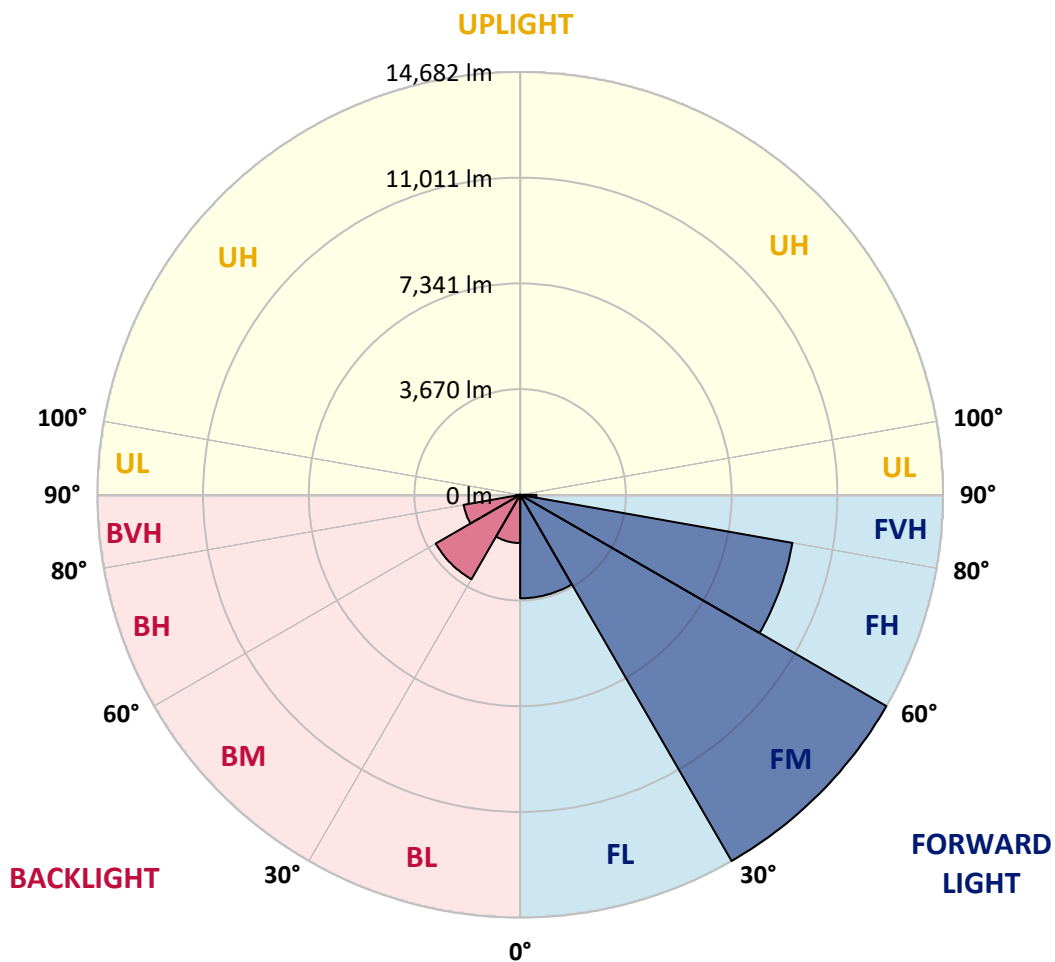
CATALOG NUMBER: USSL-XL-C04-D-U-T2-AP-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3591.7	10.1			
FM	(30°-60°)	14681.9	41.2			
FH	(60°-80°)	9599.1	26.9			G4/12000
FVH	(80°-90°)	562.9	1.6			G4/750
BL	(0°-30°)	1675.4	4.7	B3/2500		
BM	(30°-60°)	3385.6	9.5	B3/5000		
BH	(60°-80°)	1992.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	133.4	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: P285772

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6
2.5°	6551.0	6533.3	6514.3	6490.6	6471.5	6412.6	6359.5	6257.9	6132.7	6126.8	6025.1
5°	6997.5	6969.4	6947.3	6906.1	6860.4	6755.8	6633.6	6462.6	6284.4	6256.4	6076.7
7.5°	7370.1	7340.7	7315.6	7262.5	7211.0	7082.9	6925.2	6695.4	6474.4	6418.4	6148.9
10°	7695.7	7666.3	7654.4	7596.9	7560.2	7420.1	7224.3	6975.3	6698.4	6612.9	6257.9
12.5°	8038.9	8008.0	7987.4	7927.0	7882.8	7734.0	7560.2	7281.7	6968.0	6876.6	6414.1
15°	8377.8	8349.8	8302.6	8270.2	8218.7	8063.9	7900.5	7610.2	7297.9	7183.0	6623.2
17.5°	8690.0	8666.5	8631.1	8603.1	8560.4	8399.8	8221.5	7975.5	7655.9	7514.5	6863.4
20°	8919.9	8921.3	8906.6	8891.8	8906.6	8775.4	8631.1	8357.1	8028.6	7863.6	7112.4
22.5°	9117.3	9129.0	9148.2	9170.3	9264.6	9199.7	9025.9	8803.5	8451.4	8256.9	7432.0
25°	9214.5	9223.4	9308.8	9453.1	9665.2	9663.7	9501.8	9341.2	9006.8	8804.9	7876.9
27.5°	9271.9	9283.8	9403.0	9693.2	10067.5	10124.9	10058.6	9987.9	9755.1	9553.3	8464.7
30°	9269.0	9285.1	9469.4	9833.2	10384.2	10675.8	10681.8	10942.5	10832.0	10693.5	9456.1
32.5°	9048.0	9053.9	9310.3	9846.5	10622.8	11164.9	11408.0	12091.6	12433.3	12458.4	11287.2
35°	8523.6	8598.8	8981.7	9727.1	10795.2	11643.6	12272.7	13560.3	14467.7	14510.5	13125.7
37.5°	8146.5	8192.1	8628.2	9513.6	10874.7	12143.1	13265.6	15323.6	16316.5	16211.9	14647.4
40°	7734.0	7789.9	8237.8	9227.7	10824.7	12571.8	14277.7	17016.3	17811.7	17648.2	15943.8
42.5°	7277.3	7324.4	7745.7	8804.9	10665.6	12881.2	15254.4	18479.0	19090.4	18890.1	17122.3
45°	6828.0	6858.9	7258.2	8234.9	10359.1	13069.7	16145.6	19796.1	20224.7	20055.3	18208.0
47.5°	6257.9	6294.7	6783.8	7691.3	9797.8	13063.8	16917.5	20967.2	21325.2	21136.6	19175.8
50°	4826.0	4849.6	5929.4	7197.8	9073.1	12804.5	17579.0	22027.8	22365.2	22150.1	20133.4
52.5°	4372.3	4391.4	4725.9	6583.5	8282.0	12266.9	18013.5	23006.0	23310.9	23081.1	21036.5
55°	4155.8	4169.0	4331.1	5357.8	7588.1	11344.6	18205.1	23912.0	24143.3	23845.7	21770.0
57.5°	3849.3	3875.8	4120.4	4588.8	6909.1	9928.9	17931.1	24644.2	24818.0	24526.3	22484.5
60°	3616.6	3632.8	3839.0	4210.2	6088.5	8345.3	16952.9	25139.1	25421.9	25158.3	23156.3
62.5°	3389.7	3395.6	3567.9	3928.8	5375.5	7162.4	15283.9	25108.2	25793.2	25629.7	23742.6
63°	3341.1	3347.0	3522.3	3877.3	5270.9	6966.5	14918.5	25033.0	25818.2	25669.4	23820.6
65°	3134.9	3143.7	3314.5	3641.6	4817.1	6346.3	13301.0	24570.5	25734.3	25729.8	23925.2
67.5°	2827.0	2843.2	2989.0	3268.9	4198.5	5562.6	10807.0	24077.0	25059.5	25112.6	23340.4
70°	2454.2	2466.1	2631.0	2866.7	3532.5	4722.9	8276.1	22499.2	23819.1	23671.9	21985.1
72.5°	2059.5	2080.1	2237.7	2420.4	2930.1	3896.4	5992.8	19807.8	21957.1	22066.2	19712.0
75°	1797.3	1809.0	1944.5	2074.2	2433.6	3100.9	4008.4	14223.1	19414.5	19442.5	17004.4
77.5°	1490.9	1505.6	1645.5	1767.8	1974.0	2335.0	2765.1	7392.2	13804.8	14588.5	13203.7
80°	822.1	954.5	1185.9	1275.7	1429.0	1418.7	1758.9	3906.8	6109.2	7638.3	8721.0
82.5°	138.4	178.3	478.8	624.6	680.6	598.1	854.4	2150.7	3405.9	3908.3	4693.4
85°	58.9	85.4	250.5	274.0	170.9	166.5	337.4	1125.5	1948.9	2245.1	2418.9
87.5°	7.3	13.2	64.9	85.4	39.7	54.5	67.7	352.1	679.1	780.7	882.4
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: P285772

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6
2.5°	5976.6	5942.6	5864.5	5804.1	5759.9	5699.6	5634.7	5587.6	5537.6	5515.4	5524.3
5°	5985.4	5910.2	5743.8	5612.7	5466.9	5359.3	5219.4	5148.6	5072.0	5033.7	5032.2
7.5°	6008.9	5891.0	5628.8	5422.7	5214.9	5046.9	4864.3	4739.1	4671.3	4621.3	4615.3
10°	6067.8	5899.9	5541.9	5262.1	4993.9	4768.6	4546.1	4384.1	4291.2	4239.7	4247.0
12.5°	6173.9	5932.4	5480.1	5131.0	4786.2	4518.1	4233.8	4043.7	3930.3	3866.9	3884.6
15°	6319.8	6003.1	5416.7	4968.9	4563.8	4248.5	3945.1	3730.0	3603.3	3548.8	3566.5
17.5°	6483.3	6106.2	5372.5	4787.7	4329.6	3973.0	3691.7	3481.0	3268.9	3226.1	3226.1
20°	6665.9	6221.1	5365.2	4615.3	4098.3	3710.8	3386.7	3210.0	2902.1	2797.5	2775.3
22.5°	6907.6	6383.1	5356.3	4457.7	3852.2	3439.8	3042.0	2763.6	2364.4	2184.7	2167.0
25°	7240.5	6607.0	5371.0	4328.1	3628.4	3134.9	2567.7	2121.3	1785.4	1560.1	1548.3
27.5°	7686.8	6906.1	5418.2	4207.3	3404.4	2759.2	1988.7	1512.9	1253.6	1051.8	991.4
30°	8530.9	7378.9	5500.7	4099.7	3143.7	2255.4	1414.2	1023.9	838.2	698.3	667.3
32.5°	10144.0	8566.3	5614.2	3980.5	2822.5	1661.7	944.3	683.5	533.2	452.3	470.0
35°	11752.7	10046.8	6154.7	3805.1	2399.7	1106.3	630.5	436.0	335.9	332.9	352.1
37.5°	13202.2	11356.4	6885.4	3609.2	1834.1	743.9	378.6	290.2	281.4	306.4	344.7
40°	14404.4	12420.0	7502.7	3335.2	1259.6	455.2	247.5	263.7	250.5	260.7	256.3
42.5°	15521.0	13377.5	8003.5	3024.3	742.5	262.2	215.1	244.5	225.4	216.5	198.8
45°	16525.6	14280.6	8255.5	2535.3	433.1	209.2	196.0	231.3	218.0	201.8	175.3
47.5°	17440.4	15073.2	8420.5	1866.5	249.0	182.6	182.6	207.7	204.8	185.6	170.9
50°	18389.2	15848.0	8404.3	1146.1	210.7	167.9	173.8	173.8	184.1	144.4	131.1
52.5°	19227.4	16544.8	8068.4	649.6	194.5	159.1	157.6	141.4	150.3	111.9	104.6
55°	19908.0	17087.0	7504.2	428.7	184.1	157.6	138.4	122.3	114.9	81.0	83.9
57.5°	20576.8	17602.5	6640.9	338.9	191.5	151.8	126.7	104.6	89.9	63.4	60.4
60°	21222.1	18013.5	5726.1	304.9	201.8	151.8	104.6	88.4	60.4	48.6	42.7
62.5°	21612.4	18103.4	4714.0	275.5	207.7	141.4	94.3	72.2	44.2	32.4	29.5
63°	21640.4	18076.9	4534.4	271.0	209.2	141.4	94.3	69.2	42.7	29.5	26.5
65°	21597.7	17742.5	3833.1	256.3	213.6	135.6	89.9	56.0	33.9	20.7	17.7
67.5°	20883.2	16624.3	2841.7	240.2	204.8	134.1	82.5	45.7	26.5	13.2	10.3
70°	19134.6	14889.1	1898.9	213.6	197.4	131.1	97.2	38.3	22.0	7.3	5.9
72.5°	16692.2	13016.6	1271.4	175.3	172.3	107.6	58.9	32.4	16.2	3.0	0.0
75°	14108.2	10475.5	786.7	134.1	139.9	91.4	47.2	28.0	13.2	0.0	0.0
77.5°	10982.3	7738.4	559.8	85.4	98.7	78.1	39.7	23.5	10.3	0.0	0.0
80°	7492.4	5244.4	405.1	47.2	51.5	51.5	32.4	17.7	5.9	0.0	0.0
82.5°	4345.8	2938.9	206.3	23.5	22.0	26.5	14.7	8.8	1.5	0.0	0.0
85°	2119.8	1302.3	35.4	13.2	11.8	11.8	5.9	0.0	0.0	0.0	0.0
87.5°	718.9	337.4	4.5	5.9	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)