

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: P285850

Luminaire Tested: **USSL-XL-C047-D-U-T4-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285850
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-C047-D-U-T4-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23675.9 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

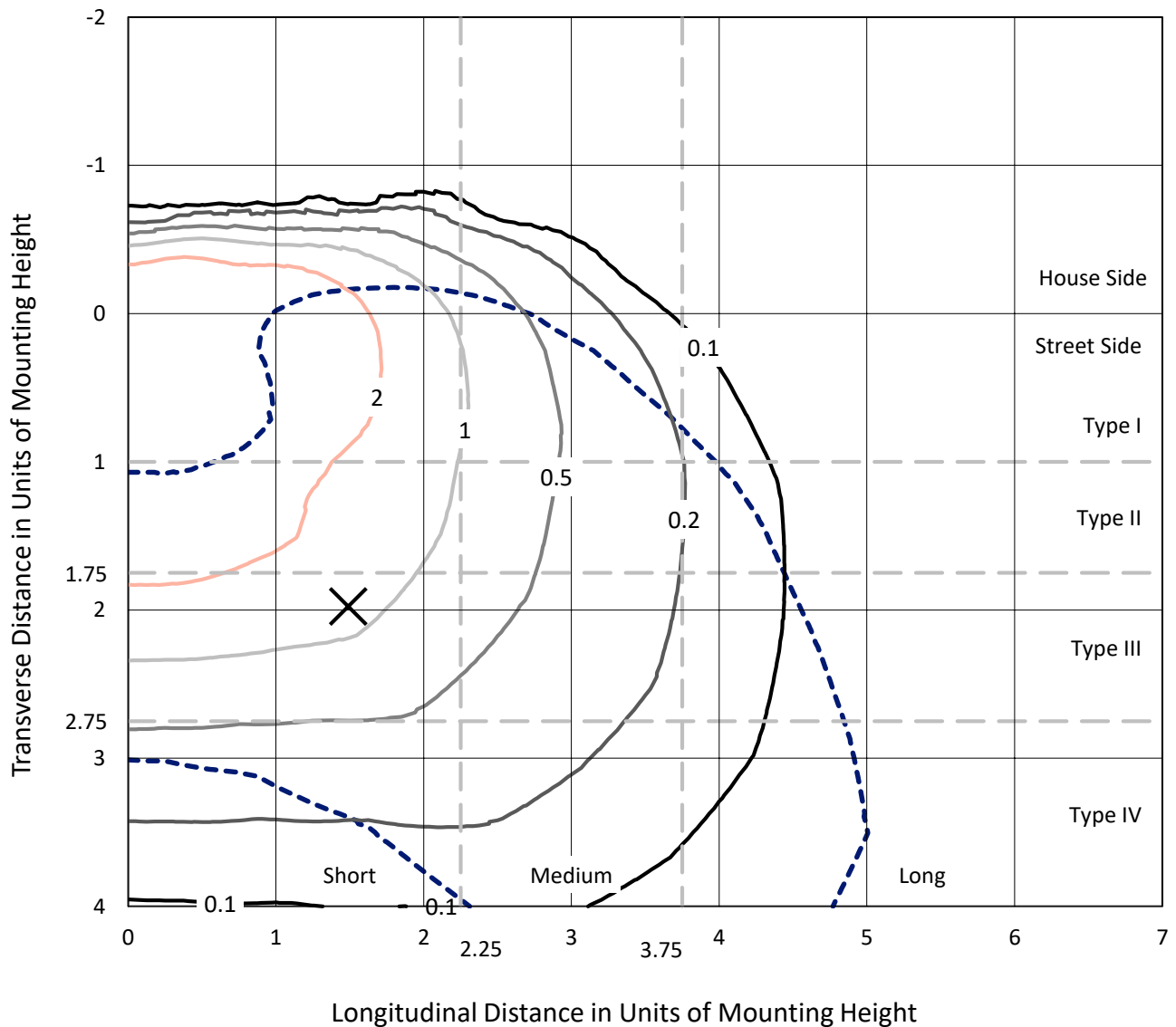
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285850
 CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

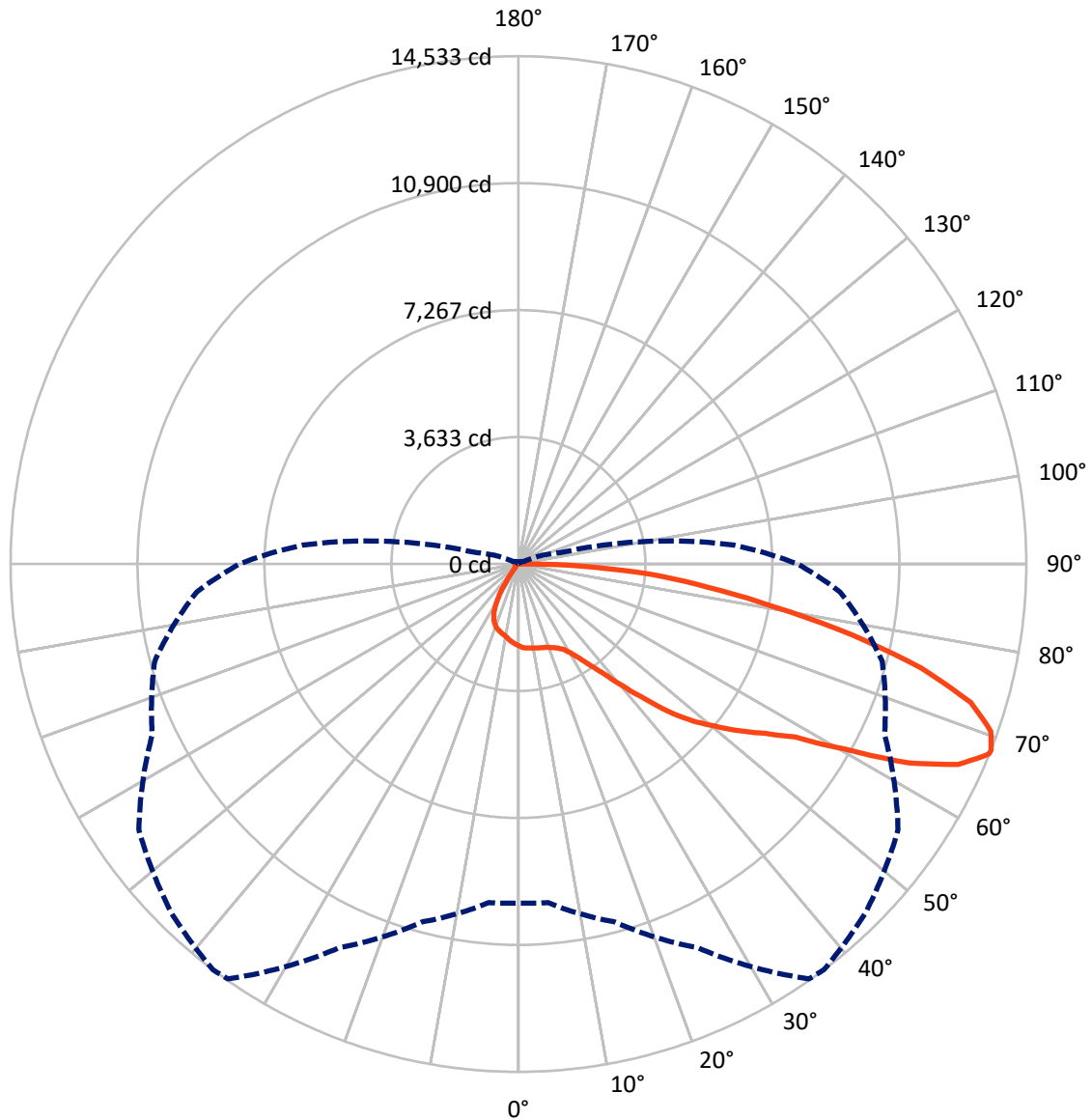
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P285850
CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P285850

CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-HSS

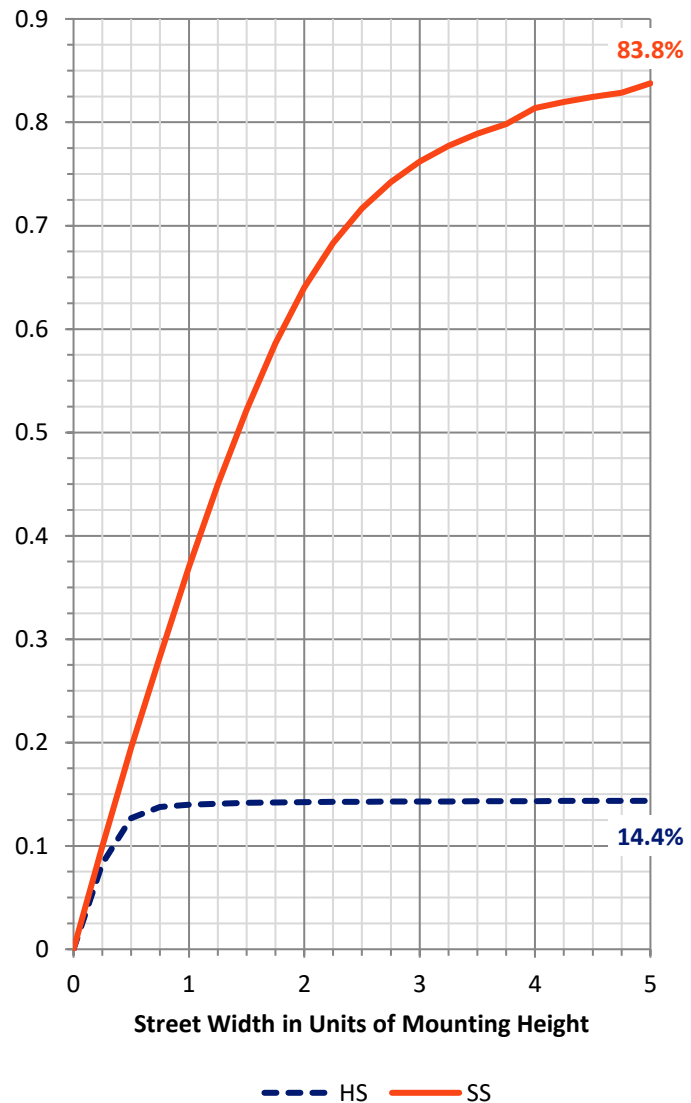
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3439.0	0.0	3439.0
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	20236.9	0.0	20236.9
	% Fixture	85.5	0.0	85.5
Total	Lumens	23675.9	0.0	23675.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	0.9
10°-20°	656.9	2.8
20°-30°	1097.7	4.6
30°-40°	1783.0	7.5
40°-50°	3221.2	13.6
50°-60°	4798.2	20.3
60°-70°	6250.5	26.4
70°-80°	4601.9	19.4
80°-90°	1045.3	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°	23675.9	100.0
0°-180°	23675.9	100.0



REPORT NUMBER: P285850

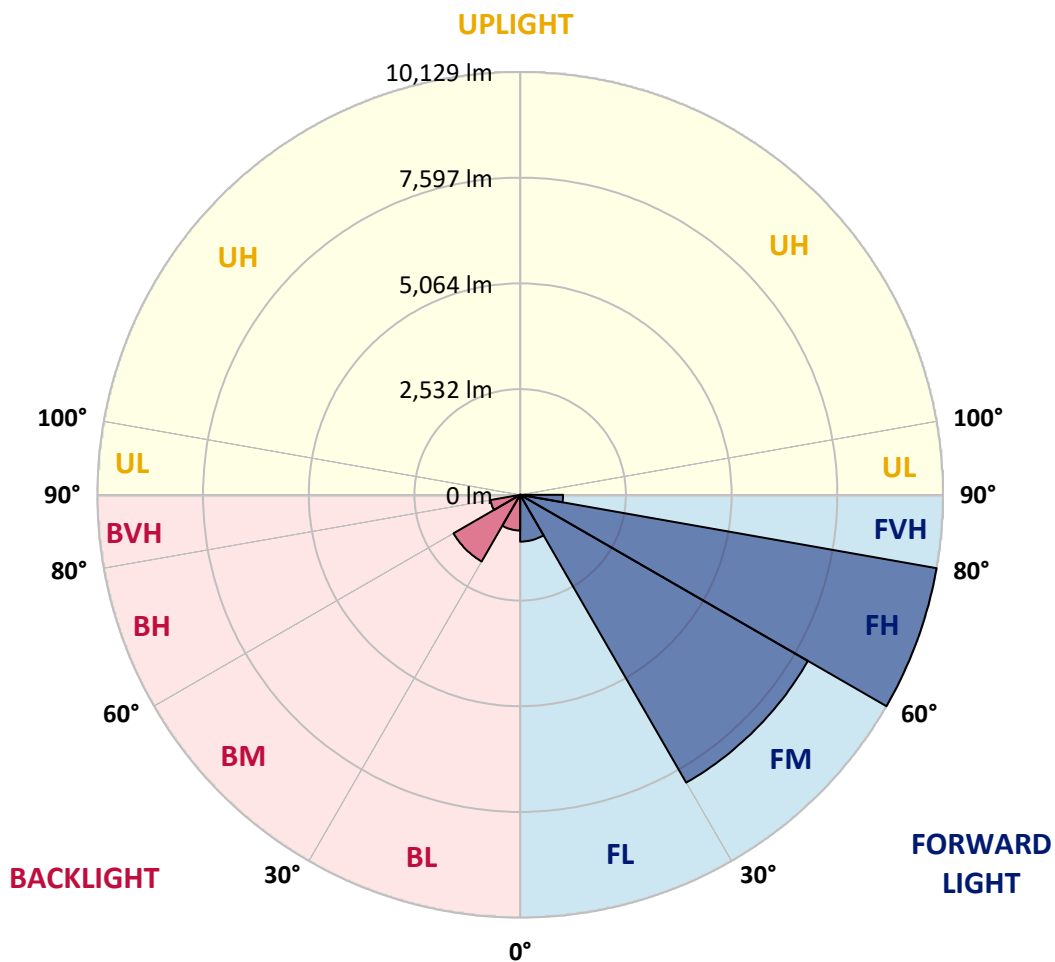
CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.6	4.7			
FM	(30°-60°)	7959.4	33.6			
FH	(60°-80°)	10128.8	42.8			G4/12000
FVH	(80°-90°)	1028.1	4.3			G5
BL	(0°-30°)	855.3	3.6	B2/1000		
BM	(30°-60°)	1843.0	7.8	B2/2500		
BH	(60°-80°)	723.7	3.1	B2/1000		G2/1000
BVH	(80°-90°)	17.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P285850

CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0
2.5°	2394.0	2396.0	2396.0	2393.0	2397.0	2394.0	2387.0	2380.0	2372.0	2340.0	2333.0
5°	2405.0	2410.0	2410.0	2409.0	2415.0	2414.0	2408.0	2402.0	2393.0	2355.0	2342.0
7.5°	2411.0	2416.0	2417.0	2415.0	2427.0	2429.0	2425.0	2425.0	2418.0	2380.0	2361.0
10°	2410.0	2411.0	2414.0	2419.0	2438.0	2443.0	2448.0	2456.0	2456.0	2425.0	2403.0
12.5°	2384.0	2385.0	2395.0	2418.0	2456.0	2464.0	2479.0	2501.0	2512.0	2495.0	2476.0
15°	2366.0	2366.0	2380.0	2416.0	2474.0	2485.0	2517.0	2551.0	2583.0	2581.0	2577.0
17.5°	2382.0	2385.0	2407.0	2438.0	2497.0	2509.0	2551.0	2606.0	2657.0	2679.0	2683.0
20°	2430.0	2433.0	2457.0	2489.0	2540.0	2549.0	2590.0	2656.0	2732.0	2780.0	2808.0
22.5°	2501.0	2503.0	2522.0	2546.0	2596.0	2602.0	2642.0	2713.0	2809.0	2891.0	2940.0
25°	2568.0	2572.0	2589.0	2607.0	2663.0	2668.0	2717.0	2792.0	2904.0	3014.0	3104.0
27.5°	2636.0	2643.0	2664.0	2689.0	2770.0	2772.0	2817.0	2891.0	3024.0	3174.0	3308.0
30°	2787.0	2779.0	2797.0	2830.0	2944.0	2951.0	2996.0	3079.0	3203.0	3372.0	3566.0
32.5°	3044.0	3035.0	3034.0	3083.0	3188.0	3222.0	3271.0	3402.0	3557.0	3725.0	3928.0
35°	3552.0	3538.0	3471.0	3455.0	3517.0	3565.0	3663.0	3855.0	4116.0	4483.0	4714.0
37.5°	4396.0	4378.0	4231.0	4058.0	3969.0	3999.0	4081.0	4347.0	4785.0	5562.0	5791.0
40°	5230.0	5234.0	5056.0	4768.0	4574.0	4580.0	4547.0	4854.0	5506.0	6569.0	6662.0
42.5°	6027.0	6020.0	5802.0	5539.0	5291.0	5242.0	5119.0	5385.0	6181.0	7381.0	7341.0
45°	6734.0	6720.0	6477.0	6330.0	6058.0	6032.0	5835.0	5924.0	6862.0	8027.0	7890.0
47.5°	7409.0	7397.0	7109.0	6970.0	6751.0	6706.0	6521.0	6566.0	7494.0	8535.0	8332.0
50°	8112.0	8136.0	7717.0	7557.0	7356.0	7297.0	7204.0	7231.0	8146.0	9013.0	8709.0
52.5°	8966.0	8845.0	8401.0	8105.0	7944.0	7932.0	7813.0	7870.0	8863.0	9433.0	9045.0
55°	9877.0	9717.0	9280.0	8894.0	8533.0	8554.0	8378.0	8462.0	9507.0	9796.0	9310.0
57.5°	10499.1	10495.1	10379.1	10010.0	9381.0	9337.0	9011.0	9082.0	10071.0	10171.1	9509.0
60°	11094.1	11257.1	11382.1	11217.1	10912.1	10772.1	9860.0	9728.0	10586.1	10510.1	9623.0
62.5°	11494.1	11544.1	12015.1	12154.1	12565.1	12538.1	11557.1	10510.1	11025.1	10730.1	9660.0
65°	11126.1	11167.1	11882.1	12551.1	13772.1	13828.1	13419.1	11801.1	11371.1	10806.1	9584.0
67.5°	9985.0	10015.0	10855.1	12240.1	14443.1	14517.1	14040.1	13148.1	11546.1	10793.1	9325.0
68°	9707.0	9728.0	10600.1	12109.1	14493.1	14533.1	14071.1	13260.1	11560.1	10778.1	9241.0
70°	8514.0	8510.0	9334.0	11331.1	14331.1	14343.1	13892.1	13382.1	11505.1	10636.1	8705.0
72.5°	6583.0	6711.0	7398.0	9544.0	13438.1	13534.1	13299.1	13045.1	11271.1	10062.0	7422.0
75°	4684.0	4784.0	5490.0	7443.0	11600.1	11903.1	12320.1	12413.1	10421.1	8648.0	5468.0
77.5°	3268.0	3374.0	4034.0	5559.0	9377.0	9773.0	10653.1	10791.1	8765.0	6556.0	2790.0
80°	2091.0	2192.0	2798.0	4043.0	7080.0	7418.0	8380.0	8181.0	6134.0	3512.0	489.0
82.5°	1271.0	1322.0	1780.0	2765.0	5160.0	5474.0	5794.0	4913.0	2936.0	497.0	157.0
85°	722.0	758.0	1092.0	1786.0	3645.0	3827.0	3899.0	2452.0	611.0	134.0	90.0
87.5°	192.0	267.0	590.0	1101.0	1834.0	1787.0	1926.0	878.0	110.0	58.0	43.0
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: P285850

CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0	2343.0
2.5°	2325.0	2323.0	2316.0	2313.0	2316.0	2313.0	2291.0	2293.0	2293.0	2282.0	2275.0
5°	2330.0	2325.0	2303.0	2299.0	2287.0	2268.0	2232.0	2224.0	2217.0	2199.0	2196.0
7.5°	2344.0	2337.0	2302.0	2286.0	2253.0	2219.0	2170.0	2141.0	2127.0	2105.0	2108.0
10°	2385.0	2370.0	2320.0	2289.0	2227.0	2171.0	2100.0	2056.0	2030.0	1997.0	2008.0
12.5°	2459.0	2436.0	2374.0	2320.0	2225.0	2142.0	2041.0	1960.0	1919.0	1881.0	1892.0
15°	2560.0	2535.0	2459.0	2377.0	2251.0	2130.0	1991.0	1863.0	1789.0	1740.0	1743.0
17.5°	2673.0	2651.0	2564.0	2455.0	2291.0	2122.0	1934.0	1762.0	1627.0	1557.0	1555.0
20°	2793.0	2780.0	2685.0	2538.0	2332.0	2104.0	1861.0	1633.0	1447.0	1329.0	1319.0
22.5°	2931.0	2925.0	2814.0	2620.0	2351.0	2063.0	1763.0	1473.0	1226.0	1066.0	1056.0
25°	3112.0	3103.0	2942.0	2677.0	2343.0	1994.0	1626.0	1281.0	946.0	762.0	754.0
27.5°	3330.0	3285.0	3055.0	2706.0	2304.0	1885.0	1447.0	996.0	636.0	469.0	465.0
30°	3575.0	3487.0	3154.0	2709.0	2232.0	1733.0	1184.0	644.0	370.0	264.0	262.0
32.5°	3893.0	3738.0	3261.0	2692.0	2122.0	1528.0	846.0	369.0	186.0	142.0	142.0
35°	4519.0	4181.0	3398.0	2648.0	1969.0	1235.0	522.0	179.0	109.0	107.0	108.0
37.5°	5449.0	4898.0	3622.0	2577.0	1765.0	890.0	268.0	100.0	100.0	104.0	105.0
40°	6270.0	5648.0	3945.0	2477.0	1494.0	563.0	128.0	94.0	100.0	101.0	103.0
42.5°	6920.0	6250.0	4286.0	2326.0	1176.0	300.0	107.0	91.0	93.0	92.0	96.0
45°	7440.0	6725.0	4549.0	2128.0	830.0	154.0	111.0	88.0	81.0	81.0	83.0
47.5°	7845.0	7086.0	4714.0	1913.0	505.0	124.0	111.0	78.0	73.0	74.0	75.0
50°	8201.0	7356.0	4771.0	1648.0	254.0	126.0	107.0	74.0	65.0	66.0	68.0
52.5°	8457.0	7546.0	4728.0	1319.0	140.0	128.0	102.0	68.0	56.0	61.0	63.0
55°	8650.0	7636.0	4586.0	938.0	127.0	126.0	99.0	61.0	50.0	60.0	63.0
57.5°	8759.0	7666.0	4345.0	611.0	139.0	111.0	91.0	56.0	47.0	59.0	63.0
60°	8804.0	7611.0	3997.0	358.0	142.0	98.0	85.0	52.0	43.0	49.0	51.0
62.5°	8757.0	7470.0	3485.0	226.0	130.0	93.0	81.0	49.0	36.0	35.0	34.0
65°	8570.0	7121.0	2639.0	181.0	121.0	93.0	76.0	43.0	28.0	21.0	19.0
67.5°	8123.0	6401.0	1493.0	179.0	118.0	91.0	69.0	39.0	22.0	11.0	9.0
68°	7988.0	6194.0	1258.0	182.0	121.0	91.0	68.0	37.0	21.0	9.0	7.0
70°	7165.0	5077.0	434.0	175.0	138.0	96.0	65.0	32.0	17.0	4.0	3.0
72.5°	5456.0	3119.0	192.0	141.0	152.0	100.0	65.0	31.0	14.0	1.0	0.0
75°	3172.0	768.0	164.0	95.0	127.0	119.0	75.0	36.0	13.0	0.0	0.0
77.5°	769.0	177.0	143.0	55.0	100.0	130.0	89.0	40.0	14.0	0.0	0.0
80°	183.0	138.0	139.0	35.0	80.0	116.0	77.0	43.0	20.0	0.0	0.0
82.5°	121.0	109.0	124.0	19.0	46.0	86.0	54.0	27.0	25.0	0.0	0.0
85°	82.0	100.0	71.0	11.0	18.0	29.0	22.0	4.0	5.0	0.0	0.0
87.5°	46.0	29.0	12.0	5.0	4.0	3.0	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)