

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: P286961

Luminaire Tested: **USSL-C02-D-U-T3-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T3-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21251 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 153
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

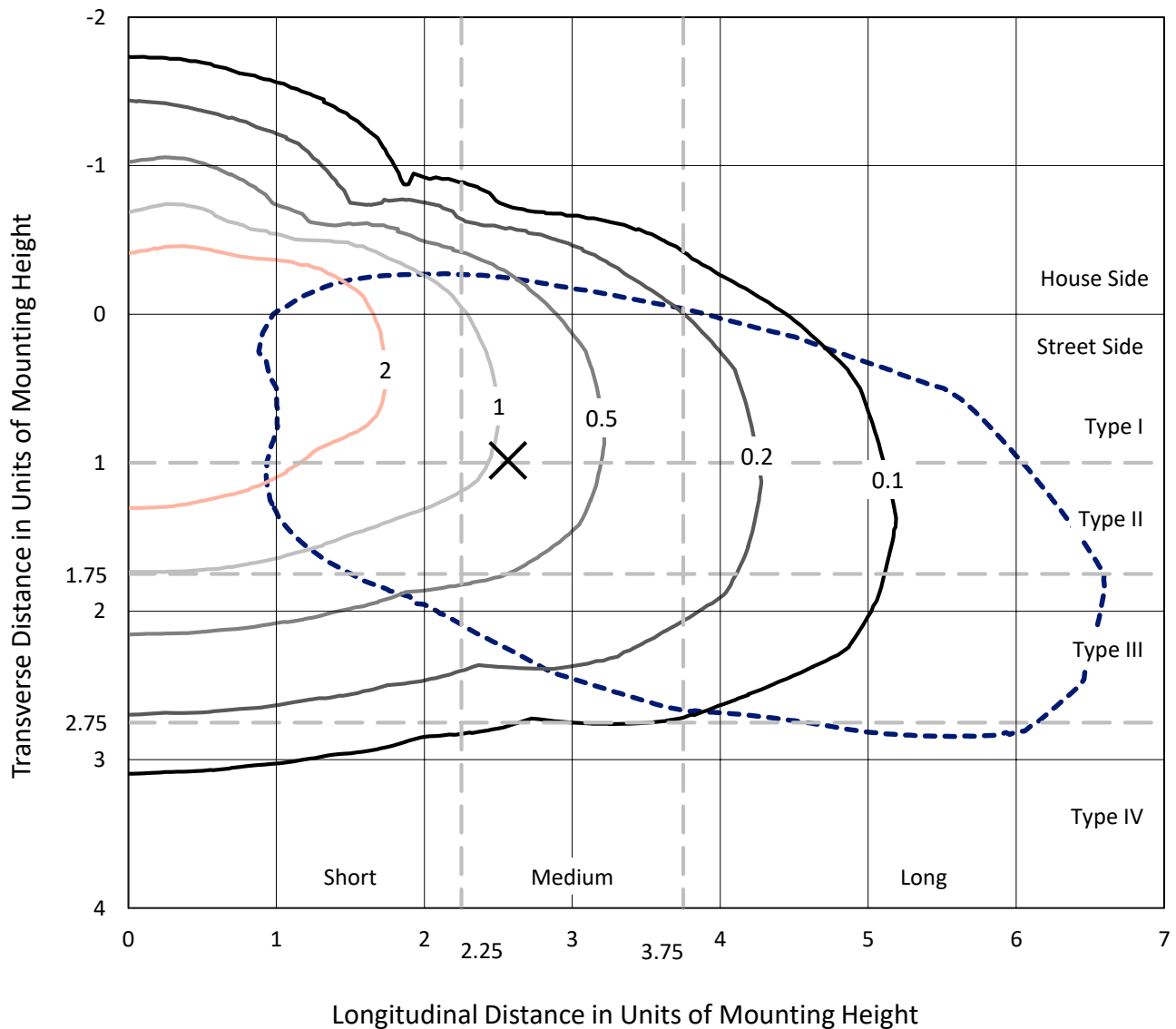


REPORT NUMBER: P286961

CATALOG NUMBER: USSL-C02-D-U-T3-BZ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

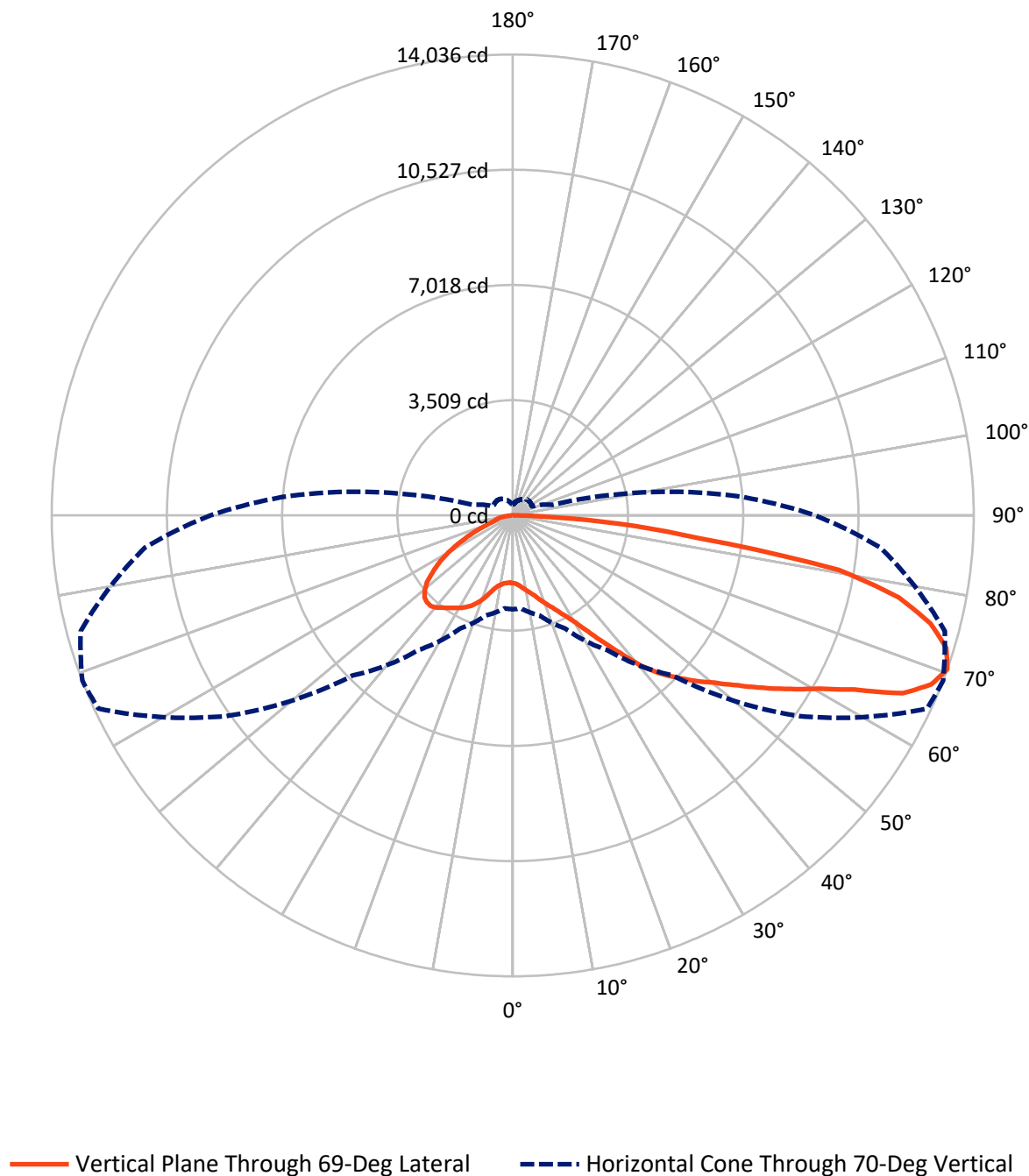


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P286961

CATALOG NUMBER: USSL-C02-D-U-T3-BZ

Luminous Intensity Polar Plot



REPORT NUMBER: P286961

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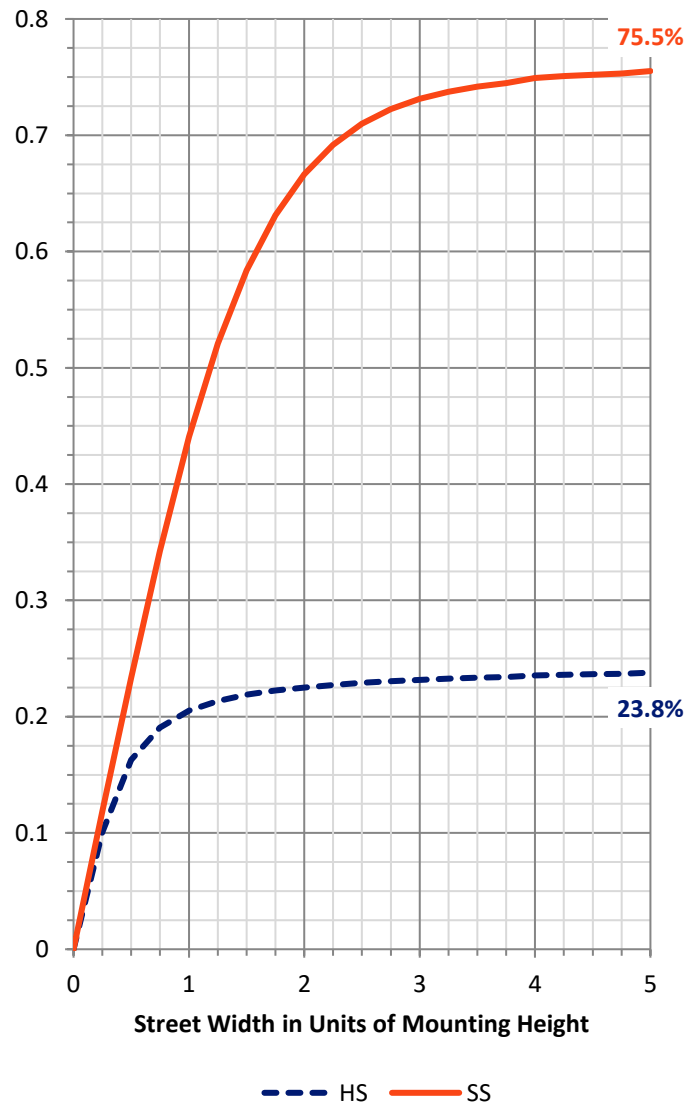
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5154.4	0.0	5154.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16096.6	0.0	16096.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	21251.0	0.0	21251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.0
10°-20°	672.0	3.2
20°-30°	1263.8	5.9
30°-40°	2163.7	10.2
40°-50°	3304.7	15.6
50°-60°	4273.6	20.1
60°-70°	4861.1	22.9
70°-80°	3704.1	17.4
80°-90°	803.5	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°	21251.0	100.0
0°-180°	21251.0	100.0

Coefficient of Utilization



REPORT NUMBER: P286961

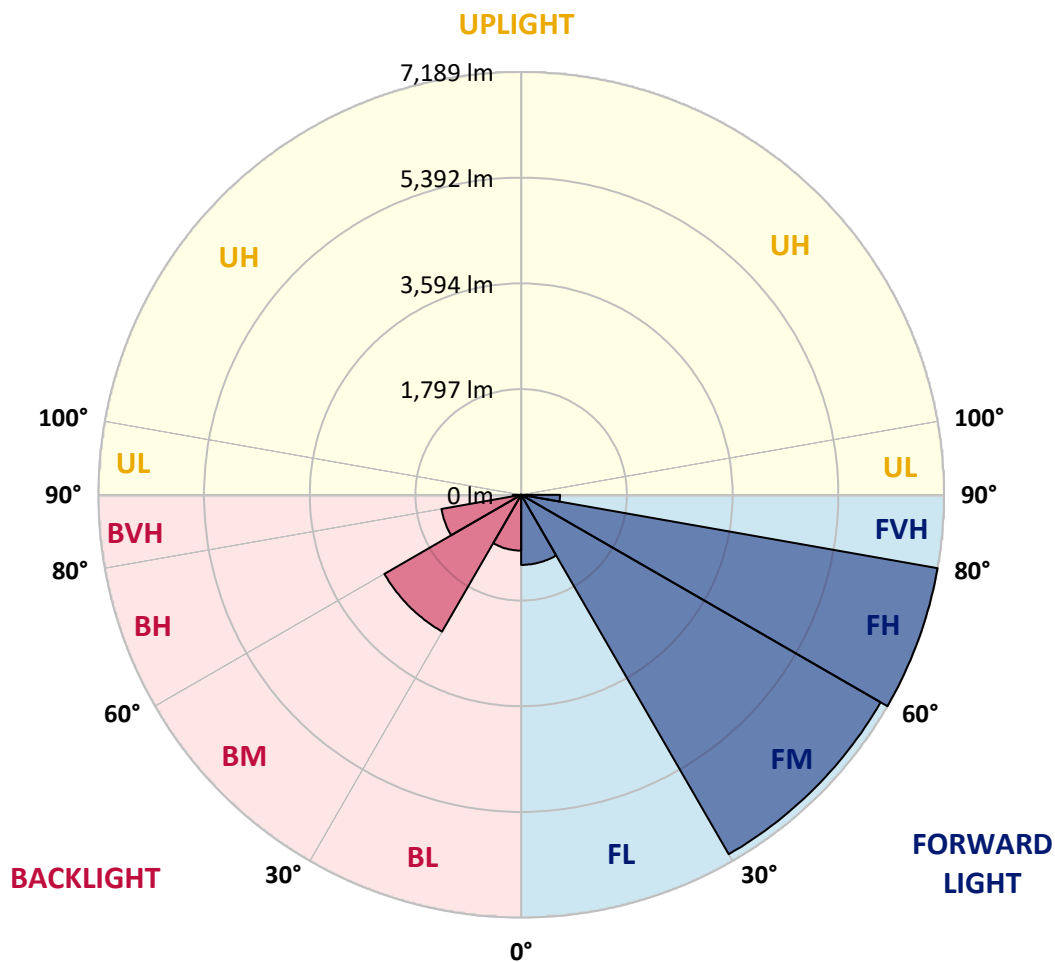
CATALOG NUMBER: USSL-C02-D-U-T3-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.3	5.6			
FM	(30°-60°)	7055.9	33.2			
FH	(60°-80°)	7188.9	33.8			G3/7500
FVH	(80°-90°)	660.5	3.1			G4/750
BL	(0°-30°)	949.0	4.5	B2/1000		
BM	(30°-60°)	2686.0	12.6	B3/5000		
BH	(60°-80°)	1376.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	143.1	0.7			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 III Medium





REPORT NUMBER: P286961

CATALOG NUMBER: USSL-C02-D-U-T3-BZ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2
2.5°	2189.9	2175.3	2176.4	2139.0	2140.0	2125.5	2117.2	2104.7	2084.0	2091.2	2056.9
5°	2295.8	2276.1	2282.4	2237.7	2235.6	2215.8	2195.1	2157.7	2148.3	2144.2	2114.1
7.5°	2365.5	2361.4	2358.2	2335.4	2333.3	2310.4	2290.7	2250.2	2234.6	2215.8	2177.5
10°	2433.0	2436.1	2439.3	2399.7	2424.7	2397.7	2375.9	2342.6	2321.8	2315.6	2256.4
12.5°	2467.2	2470.4	2487.1	2475.6	2490.1	2504.6	2482.8	2448.6	2427.8	2427.8	2359.2
15°	2497.4	2505.7	2533.8	2543.1	2569.1	2581.6	2598.1	2576.4	2545.2	2540.1	2482.8
17.5°	2548.3	2544.2	2569.1	2610.6	2640.7	2664.7	2711.4	2705.2	2703.1	2689.6	2648.1
20°	2616.9	2609.6	2634.5	2652.2	2698.9	2770.6	2834.0	2866.2	2864.2	2856.9	2820.5
22.5°	2691.7	2684.4	2685.5	2698.9	2762.3	2870.3	2968.0	3029.3	3030.4	3034.5	3067.8
25°	2819.4	2789.3	2780.0	2791.4	2867.2	2999.2	3124.9	3225.6	3245.4	3269.3	3375.3
27.5°	3129.0	3143.6	3016.8	2934.8	2998.1	3160.2	3307.7	3456.2	3487.4	3559.1	3771.0
30°	3610.0	3586.2	3521.7	3343.0	3198.7	3343.0	3550.8	3734.7	3793.9	3976.7	4167.8
32.5°	3973.7	3974.6	3943.5	3791.8	3592.3	3557.0	3791.8	4096.2	4213.6	4553.3	4724.7
35°	4342.4	4326.8	4353.9	4210.5	4033.9	3908.2	4054.6	4456.7	4725.8	5228.6	5321.0
37.5°	4688.4	4693.6	4699.8	4561.6	4477.4	4433.9	4417.2	4923.1	5309.6	5856.1	5914.2
40°	4945.0	4972.9	4992.8	4916.9	4886.8	4888.9	4817.1	5476.8	6011.9	6550.0	6483.5
42.5°	5149.6	5181.9	5325.1	5223.4	5267.0	5354.3	5341.8	5915.2	6581.1	7081.8	7005.0
45°	5321.0	5322.1	5421.8	5462.3	5618.1	5783.3	5796.8	6382.7	7052.8	7561.9	7414.3
47.5°	5439.4	5418.6	5496.5	5661.8	5948.5	6142.8	6271.5	6911.5	7540.0	7991.9	7833.0
50°	5475.8	5504.9	5634.7	5844.6	6226.9	6533.3	6804.5	7581.6	8014.8	8412.6	8172.7
52.5°	5543.3	5555.8	5737.6	6011.9	6509.5	6917.8	7187.8	8273.5	8598.7	8843.8	8588.2
55°	5600.5	5635.8	5809.3	6100.1	6688.2	7229.4	7594.1	8904.0	9270.7	9318.5	9023.5
57.5°	5395.8	5430.1	5738.6	6125.1	6836.7	7480.8	8039.7	9516.9	9973.0	9891.9	9403.8
60°	5017.7	5057.1	5427.0	6056.5	6860.6	7761.3	8623.6	10331.4	10714.7	10617.1	9831.7
62.5°	4674.8	4676.9	5076.9	5762.6	6747.3	7953.5	9333.1	11384.8	11673.6	11502.2	10306.5
65°	4223.0	4218.8	4580.4	5289.9	6427.3	7894.2	9886.7	12670.9	13053.2	12567.0	10760.4
67.5°	3612.1	3599.6	3965.3	4622.9	5833.2	7589.8	10356.4	13545.6	13743.0	13344.0	11123.0
70°	2855.8	2842.3	3151.9	3804.3	5005.2	6894.9	10652.4	13919.6	14035.9	13619.4	11237.3
72.5°	2002.9	1994.6	2179.5	2695.9	3829.2	5800.9	10589.0	13732.6	13806.4	13331.6	10901.7
75°	1185.3	1182.2	1354.7	1649.7	2263.6	4322.7	9873.3	13046.9	13135.2	12704.2	10078.0
77.5°	457.1	423.9	661.8	803.1	1287.1	2024.7	7552.4	11816.0	12020.5	11615.4	8879.1
80°	149.6	154.7	464.3	567.3	746.9	907.0	4041.2	9589.7	10074.8	9815.1	6725.6
82.5°	109.1	112.2	288.8	383.4	494.4	615.0	1529.2	5213.0	5724.1	5635.8	3301.5
85°	71.6	71.6	98.7	136.1	185.0	246.2	429.0	2645.9	3243.3	3146.7	1430.5
87.5°	38.5	39.4	57.1	82.0	111.2	129.8	137.2	541.3	738.6	643.0	285.6
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: P286961

CATALOG NUMBER: USSL-C02-D-U-T3-BZ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2	2064.2
2.5°	2046.6	2067.3	2051.8	2039.2	2018.5	2007.0	2010.2	1999.8	1990.5	2014.3	2002.9
5°	2103.7	2117.2	2076.7	2052.8	2019.5	1991.4	1989.4	1966.5	1955.1	1964.5	1968.7
7.5°	2152.6	2162.9	2108.9	2066.3	2033.0	1999.8	1976.9	1937.5	1921.9	1938.5	1944.7
10°	2236.6	2224.2	2158.7	2111.0	2062.1	2021.7	1983.2	1945.8	1917.7	1918.7	1920.9
12.5°	2332.2	2298.0	2239.8	2172.3	2119.3	2078.8	2025.8	1962.4	1917.7	1916.7	1923.9
15°	2465.2	2423.7	2372.7	2292.8	2233.5	2175.3	2090.1	1980.1	1909.4	1884.5	1874.1
17.5°	2631.4	2576.4	2558.7	2466.3	2368.6	2257.5	2121.4	1987.3	1862.7	1815.9	1818.0
20°	2830.9	2813.2	2790.4	2638.7	2498.4	2311.4	2135.9	1954.1	1786.8	1704.7	1696.5
22.5°	3111.3	3103.1	2995.1	2787.2	2572.2	2346.7	2123.4	1883.4	1682.0	1580.1	1559.3
25°	3435.5	3367.9	3167.5	2912.9	2630.4	2356.2	2073.6	1780.6	1558.3	1431.5	1425.4
27.5°	3757.6	3638.1	3343.0	2991.9	2635.5	2319.8	1968.7	1640.3	1435.7	1317.2	1301.7
30°	4132.6	3971.6	3520.7	3049.0	2624.1	2228.3	1822.2	1523.0	1354.7	1237.3	1219.6
32.5°	4606.3	4333.1	3696.3	3075.0	2547.3	2105.8	1666.4	1472.1	1295.4	1160.4	1139.6
35°	5173.5	4809.9	3934.1	3073.9	2446.5	1915.7	1587.4	1442.9	1253.9	1087.7	1056.5
37.5°	5716.8	5343.9	4203.2	3061.5	2285.5	1717.2	1532.3	1396.2	1225.9	1073.1	1055.4
40°	6217.6	5782.3	4529.4	3038.6	2096.4	1596.7	1471.0	1323.5	1192.6	1086.6	1066.9
42.5°	6683.9	6195.8	4821.3	2981.5	1888.6	1511.5	1387.9	1274.6	1157.3	1023.2	993.1
45°	7105.8	6544.8	5022.9	2846.5	1661.1	1417.0	1294.5	1209.2	1092.9	955.7	931.9
47.5°	7458.0	6862.6	5165.2	2664.7	1477.3	1317.2	1186.3	1116.8	1013.9	888.2	857.0
50°	7766.5	7177.4	5261.8	2355.1	1316.2	1215.5	1079.4	1003.5	911.1	821.7	799.9
52.5°	8067.7	7496.4	5374.0	1941.6	1164.5	1097.0	956.8	872.6	803.1	761.4	746.9
55°	8465.6	7902.6	5374.0	1423.2	1025.3	1002.5	850.8	739.7	690.8	661.8	669.0
57.5°	8825.0	8151.9	5147.5	1059.6	937.1	904.8	735.5	626.4	574.5	581.8	603.6
60°	9222.9	8389.7	4515.9	876.7	862.2	770.9	627.5	550.6	523.6	497.6	494.4
62.5°	9496.2	8424.1	3704.6	773.9	787.4	680.5	587.0	507.0	476.8	439.4	431.2
65°	9801.6	8240.2	2787.2	726.1	720.9	646.1	578.6	500.7	459.1	397.9	387.5
67.5°	9689.4	7696.9	1979.0	672.2	674.2	650.4	592.2	499.6	449.8	383.4	376.1
70°	9202.2	6817.0	1240.4	647.2	664.9	658.6	616.0	525.7	446.7	348.0	337.6
72.5°	8515.4	5684.6	693.9	600.4	659.7	663.8	645.2	549.6	409.3	284.7	278.4
75°	7389.4	4338.3	496.6	555.8	634.8	662.8	632.7	528.8	375.0	268.0	259.7
77.5°	5777.1	2543.1	437.3	512.1	588.0	592.2	627.5	549.6	389.6	272.2	262.9
80°	3123.8	1052.4	367.8	450.9	483.1	559.9	608.8	513.2	360.5	219.2	205.7
82.5°	1267.4	297.1	214.0	286.7	391.6	462.3	542.2	454.0	330.4	182.8	172.4
85°	324.1	101.9	99.7	146.5	234.8	346.0	440.5	388.6	269.1	81.1	5.2
87.5°	40.5	33.3	39.4	81.1	152.7	248.3	323.1	280.4	191.1	1.1	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)