

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: P286944

Luminaire Tested: **USSL-C029-D-U-T2-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C029-D-U-T2-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18200.6 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 II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 131
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



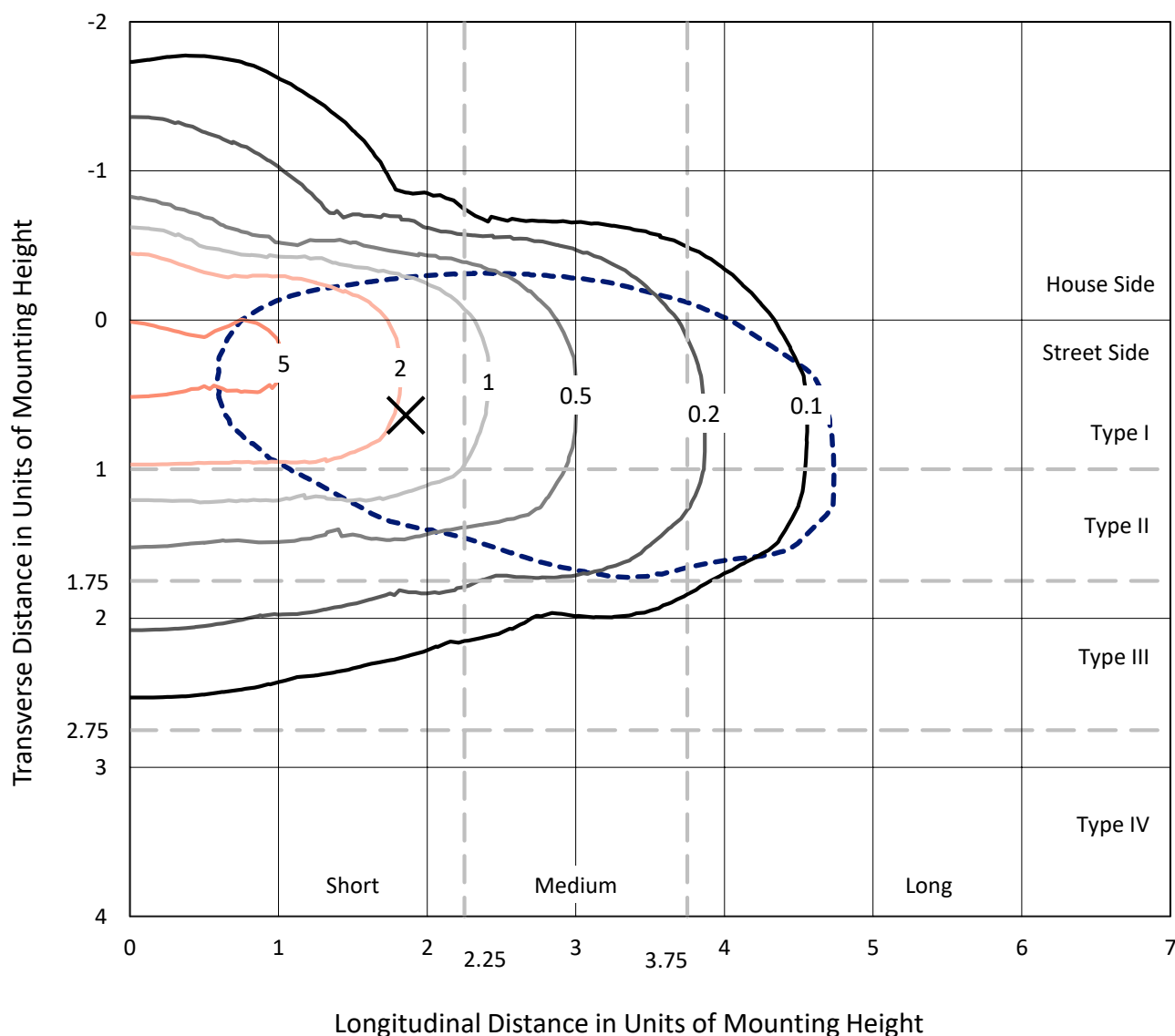
REPORT NUMBER: P286944

CATALOG NUMBER: USSL-C029-D-U-T2-BZ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

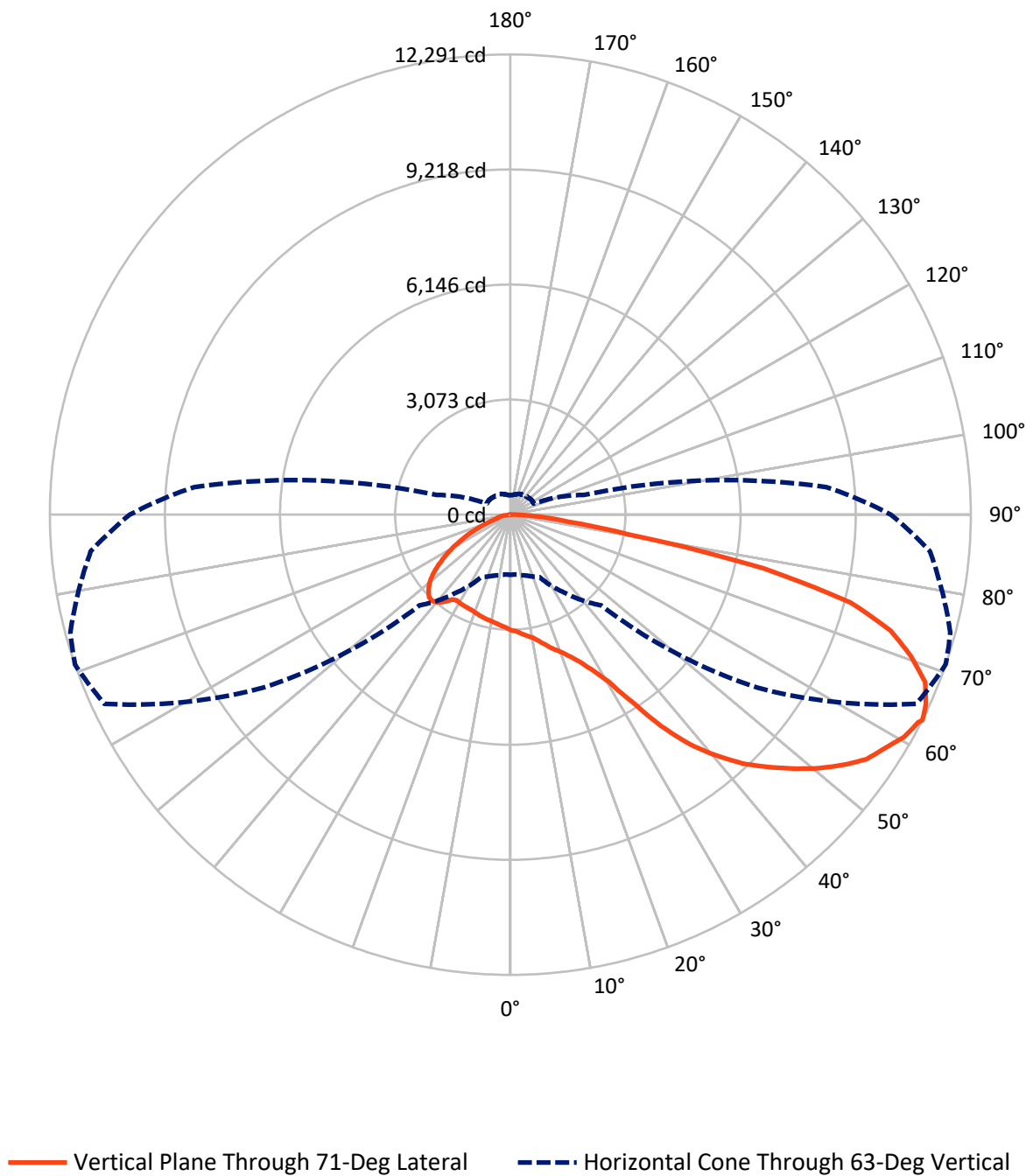


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P286944

CATALOG NUMBER: USSL-C029-D-U-T2-BZ

Luminous Intensity Polar Plot



REPORT NUMBER: P286944

CATALOG NUMBER: USSL-C029-D-U-T2-BZ

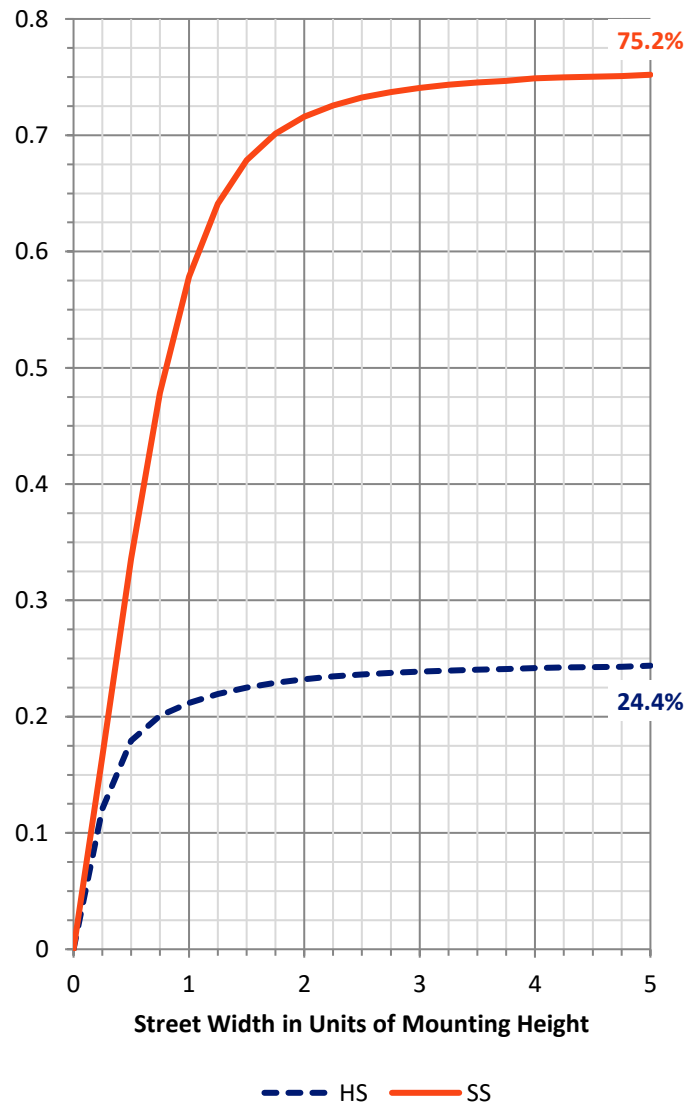
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4514.0	0.0	4514.0
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	13686.6	0.0	13686.6
	% Fixture	75.2	0.0	75.2
Total	Lumens	18200.6	0.0	18200.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.6
10°-20°	905.7	5.0
20°-30°	1529.4	8.4
30°-40°	2298.4	12.6
40°-50°	3159.3	17.4
50°-60°	3673.5	20.2
60°-70°	3652.3	20.1
70°-80°	2305.2	12.7
80°-90°	379.8	2.1
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°	18200.6	100.0
0°-180°	18200.6	100.0

Coefficient of Utilization



REPORT NUMBER: P286944

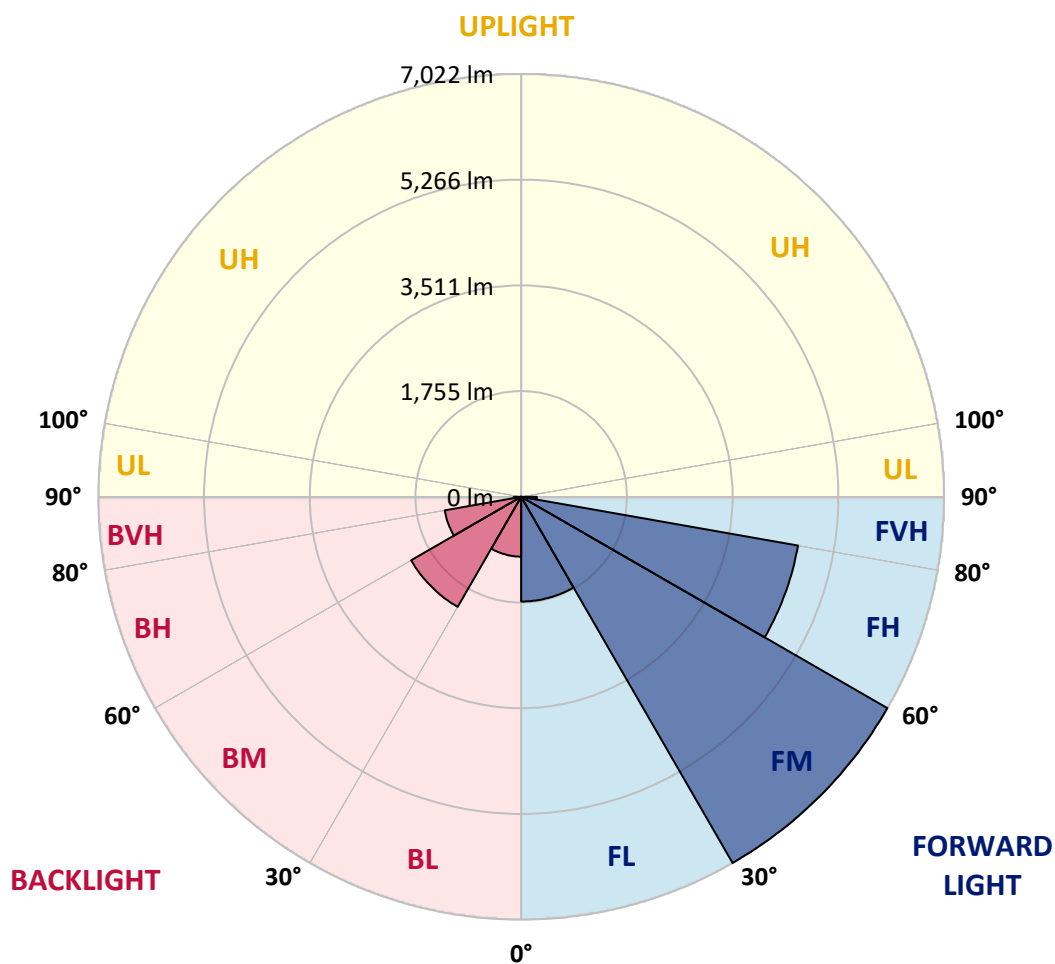
CATALOG NUMBER: USSL-C029-D-U-T2-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1738.7	9.6			
FM	(30°-60°)	7021.8	38.6			
FH	(60°-80°)	4667.8	25.6			G2/5000
FVH	(80°-90°)	258.3	1.4			G3/500
BL	(0°-30°)	993.5	5.5	B2/1000		
BM	(30°-60°)	2109.4	11.6	B2/2500		
BH	(60°-80°)	1289.6	7.1	B3/2500		G3/2500
BVH	(80°-90°)	121.4	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-G3

Type II Short





REPORT NUMBER: P286944

CATALOG NUMBER: USSL-C029-D-U-T2-BZ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	3307.9	3302.6	3295.5	3250.2	3242.2	3214.7	3185.3	3153.4	3117.8	3122.3	3078.8
5°	3493.6	3482.1	3477.6	3410.1	3360.3	3330.1	3290.1	3217.3	3196.9	3180.9	3096.5
7.5°	3642.8	3648.2	3638.4	3574.4	3524.7	3475.0	3403.9	3296.4	3269.8	3236.0	3152.5
10°	3763.6	3777.0	3769.9	3697.0	3654.3	3605.5	3519.4	3409.2	3347.9	3299.0	3165.8
12.5°	3909.3	3901.3	3903.1	3833.8	3796.5	3729.9	3666.8	3541.5	3471.4	3403.9	3227.1
15°	4091.4	4080.7	4067.4	4000.8	3944.8	3905.7	3838.2	3698.7	3622.4	3558.4	3324.8
17.5°	4253.1	4215.8	4209.5	4135.8	4091.4	4039.0	3992.7	3873.7	3778.8	3696.1	3432.3
20°	4361.5	4342.8	4317.9	4275.3	4256.7	4217.6	4159.8	4029.2	3922.6	3838.2	3523.7
22.5°	4434.3	4423.6	4423.6	4410.2	4419.1	4403.1	4357.0	4233.6	4124.3	4004.3	3664.2
25°	4455.6	4422.8	4469.8	4521.3	4583.5	4611.0	4568.4	4483.2	4373.9	4256.7	3845.3
27.5°	4470.7	4465.4	4524.0	4611.9	4769.1	4832.2	4832.2	4784.3	4714.1	4575.5	4108.3
30°	4472.5	4474.3	4553.3	4689.2	4901.5	5076.5	5085.4	5213.3	5176.9	5070.2	4510.6
32.5°	4345.5	4341.0	4460.1	4697.2	5003.7	5282.5	5427.3	5778.3	5946.1	5953.2	5386.5
35°	4088.8	4121.6	4309.0	4619.0	5075.6	5517.1	5851.9	6567.0	6930.4	6921.5	6242.0
37.5°	3886.2	3912.8	4128.7	4535.5	5122.7	5731.2	6329.0	7442.8	7778.6	7749.4	6923.3
40°	3702.3	3733.4	3948.3	4389.9	5106.7	5974.6	6859.2	8200.6	8455.5	8414.7	7564.6
42.5°	3482.1	3505.1	3718.3	4186.4	5061.4	6141.6	7336.3	8892.6	9083.6	8973.3	8066.5
45°	3263.5	3280.4	3513.1	3919.9	4918.4	6251.7	7812.4	9521.4	9610.2	9522.4	8620.7
47.5°	2986.4	3003.2	3272.4	3687.3	4672.4	6248.1	8257.4	10051.8	10135.2	10018.0	9038.2
50°	2296.2	2313.0	2864.7	3449.1	4329.5	6163.7	8613.6	10542.9	10646.9	10475.4	9509.0
52.5°	2086.5	2094.6	2244.7	3153.4	3891.5	5928.3	8873.0	10982.7	11109.7	10923.1	9917.6
55°	1990.6	1983.5	2044.8	2539.6	3554.0	5553.5	9070.2	11399.2	11529.0	11341.5	10281.8
57.5°	1839.7	1851.1	1955.1	2174.5	3248.4	4869.5	9000.0	11790.1	11777.6	11633.8	10639.8
60°	1731.2	1736.5	1839.7	1996.0	2882.5	4091.4	8703.4	12006.9	12066.3	11874.5	10948.9
62.5°	1618.5	1625.6	1713.4	1855.6	2597.3	3520.2	8227.3	11994.4	12220.0	12101.8	11228.7
63°	1604.3	1602.5	1682.4	1836.9	2553.8	3423.4	8052.3	11955.4	12291.0	12157.8	11242.0
65°	1492.3	1499.4	1584.7	1726.8	2367.3	3157.9	7557.4	11691.4	12191.6	12203.2	11364.6
67.5°	1329.8	1340.5	1413.3	1544.7	2011.1	2769.6	6258.8	11539.6	11939.3	12009.5	11210.0
70°	1137.9	1149.5	1225.8	1347.6	1704.6	2364.6	4651.9	10880.5	11346.9	11472.0	10511.9
72.5°	901.6	916.7	1013.5	1136.1	1398.1	1942.7	3274.1	9803.9	10618.5	10644.3	9537.4
75°	588.0	599.6	739.9	911.4	1130.8	1538.4	2162.9	7505.9	9378.4	9536.6	8174.8
77.5°	347.3	363.3	432.5	501.9	716.0	1159.2	1405.2	3997.2	6908.1	7411.8	6450.7
80°	94.1	104.0	327.7	382.8	457.5	500.1	865.2	2206.5	3197.8	4060.3	4344.5
82.5°	48.9	60.4	182.9	246.0	262.0	254.1	399.7	1026.0	1563.4	1831.6	2181.6
85°	22.3	26.6	60.4	89.7	72.8	69.3	133.2	535.7	874.1	1014.4	1097.0
87.5°	7.9	9.8	21.3	32.9	19.5	15.1	18.7	161.6	337.6	426.4	387.3
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: P286944

CATALOG NUMBER: USSL-C029-D-U-T2-BZ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	3047.6	3074.3	3038.8	2997.9	2969.5	2953.5	2940.2	2910.0	2918.9	2930.4	2928.6
5°	3077.0	3080.5	2997.9	2945.6	2883.4	2847.8	2834.5	2783.0	2788.3	2793.6	2792.7
7.5°	3095.6	3062.8	2962.4	2886.0	2820.3	2766.1	2715.5	2664.0	2654.2	2664.0	2671.9
10°	3100.9	3051.2	2937.5	2830.9	2742.1	2664.8	2620.4	2539.6	2525.3	2544.9	2557.3
12.5°	3149.8	3067.2	2919.8	2794.5	2690.6	2588.5	2511.1	2421.4	2378.8	2394.8	2409.9
15°	3210.2	3095.6	2904.7	2748.3	2609.8	2495.2	2393.9	2297.1	2243.8	2265.1	2275.7
17.5°	3283.0	3148.0	2903.8	2672.9	2523.6	2385.0	2282.9	2178.1	2079.4	2114.1	2102.5
20°	3363.9	3193.4	2898.4	2602.7	2417.8	2250.9	2115.0	2045.7	1943.5	1944.4	1929.3
22.5°	3459.8	3255.5	2892.3	2536.0	2289.1	2120.3	1950.6	1870.7	1787.2	1756.1	1746.4
25°	3610.9	3355.0	2902.9	2490.8	2178.1	1949.8	1750.7	1647.7	1612.2	1573.1	1556.3
27.5°	3816.1	3493.6	2926.0	2433.0	2038.6	1769.4	1525.2	1425.7	1400.8	1371.5	1352.0
30°	4117.2	3691.6	2953.5	2367.3	1877.0	1525.2	1300.4	1228.5	1188.5	1173.4	1161.9
32.5°	4882.0	4248.6	2974.8	2281.1	1709.1	1289.8	1127.2	1055.2	999.3	972.7	975.3
35°	5666.3	4923.8	3125.9	2178.1	1502.9	1093.5	975.3	886.5	818.1	800.3	787.9
37.5°	6281.0	5478.8	3471.4	2074.1	1305.8	979.8	826.1	748.8	691.1	686.6	714.2
40°	6861.1	5988.8	3756.5	1954.2	1101.4	850.0	675.1	644.0	618.2	624.5	661.8
42.5°	7342.5	6446.2	3991.1	1781.9	936.2	703.6	576.5	609.3	617.4	625.3	628.0
45°	7814.1	6806.9	4118.0	1556.3	790.6	585.4	565.9	627.1	640.5	651.9	637.7
47.5°	8300.9	7213.7	4116.2	1279.1	681.3	572.0	588.0	627.1	650.2	664.5	660.0
50°	8690.0	7515.8	4063.9	1006.4	653.7	603.2	599.6	601.4	638.7	648.4	649.3
52.5°	9058.6	7800.9	3848.0	826.9	692.0	638.7	612.9	591.6	607.5	630.6	604.9
55°	9418.4	8048.7	3465.1	778.2	710.7	668.9	640.5	603.2	587.2	581.8	590.7
57.5°	9714.2	8254.7	3015.7	755.9	716.0	671.6	687.6	602.2	584.5	543.6	539.2
60°	10002.9	8450.2	2573.3	724.9	711.5	666.3	641.3	617.4	574.7	513.4	491.3
62.5°	10182.4	8510.6	2110.6	698.2	692.0	660.0	625.3	613.8	564.9	517.9	511.6
63°	10156.6	8468.0	2029.7	693.7	687.6	655.5	626.2	609.3	560.5	523.2	520.5
65°	10218.7	8223.7	1672.6	666.3	668.9	643.1	612.9	582.7	520.5	493.9	489.5
67.5°	9923.8	7777.8	1207.1	615.6	640.5	623.5	586.2	531.2	473.5	438.8	437.0
70°	9150.1	6933.0	829.7	525.0	595.1	596.0	573.0	501.9	438.8	399.7	405.1
72.5°	8056.6	6058.1	534.7	408.6	511.6	548.1	534.7	474.3	391.7	320.6	315.3
75°	6883.2	4940.6	394.4	329.5	377.5	487.7	467.2	386.4	328.7	283.3	279.8
77.5°	5166.2	3572.6	349.1	281.6	280.7	330.5	384.6	380.2	389.9	469.0	458.3
80°	3576.2	2521.0	278.0	228.3	171.4	208.7	324.2	402.3	501.9	291.4	273.6
82.5°	2069.7	1368.9	90.6	72.0	104.8	135.0	238.1	500.1	332.2	174.1	156.3
85°	974.5	519.7	39.1	22.3	31.1	45.3	134.1	422.8	212.3	87.0	16.0
87.5°	302.0	143.0	8.9	7.1	7.9	9.8	56.8	222.0	145.6	9.8	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)