

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: P287003

Luminaire Tested: **USSL-C027-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T2-AP-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K 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: 12638.2 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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



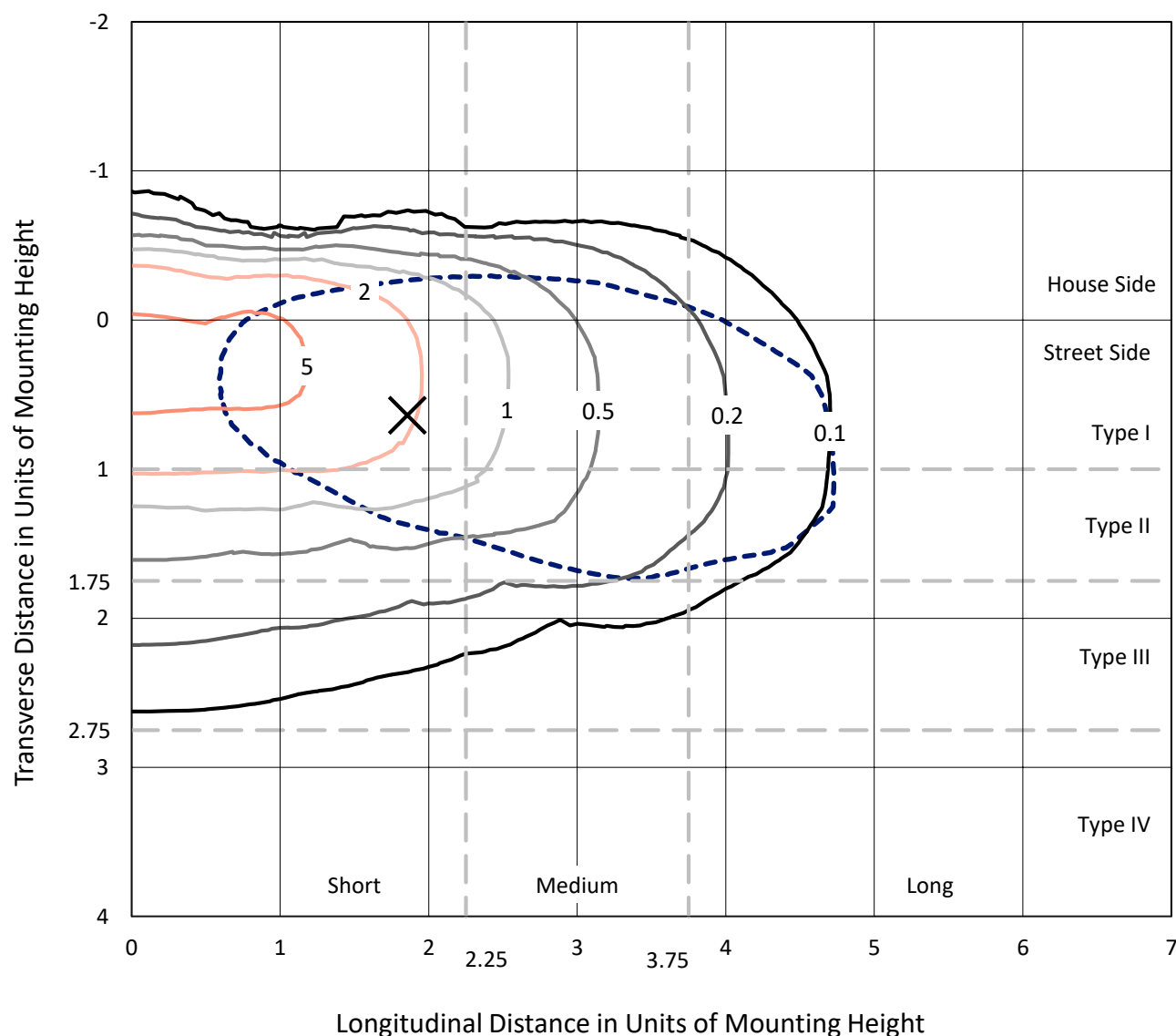
REPORT NUMBER: P287003

CATALOG NUMBER: USSL-C027-D-U-T2-AP-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

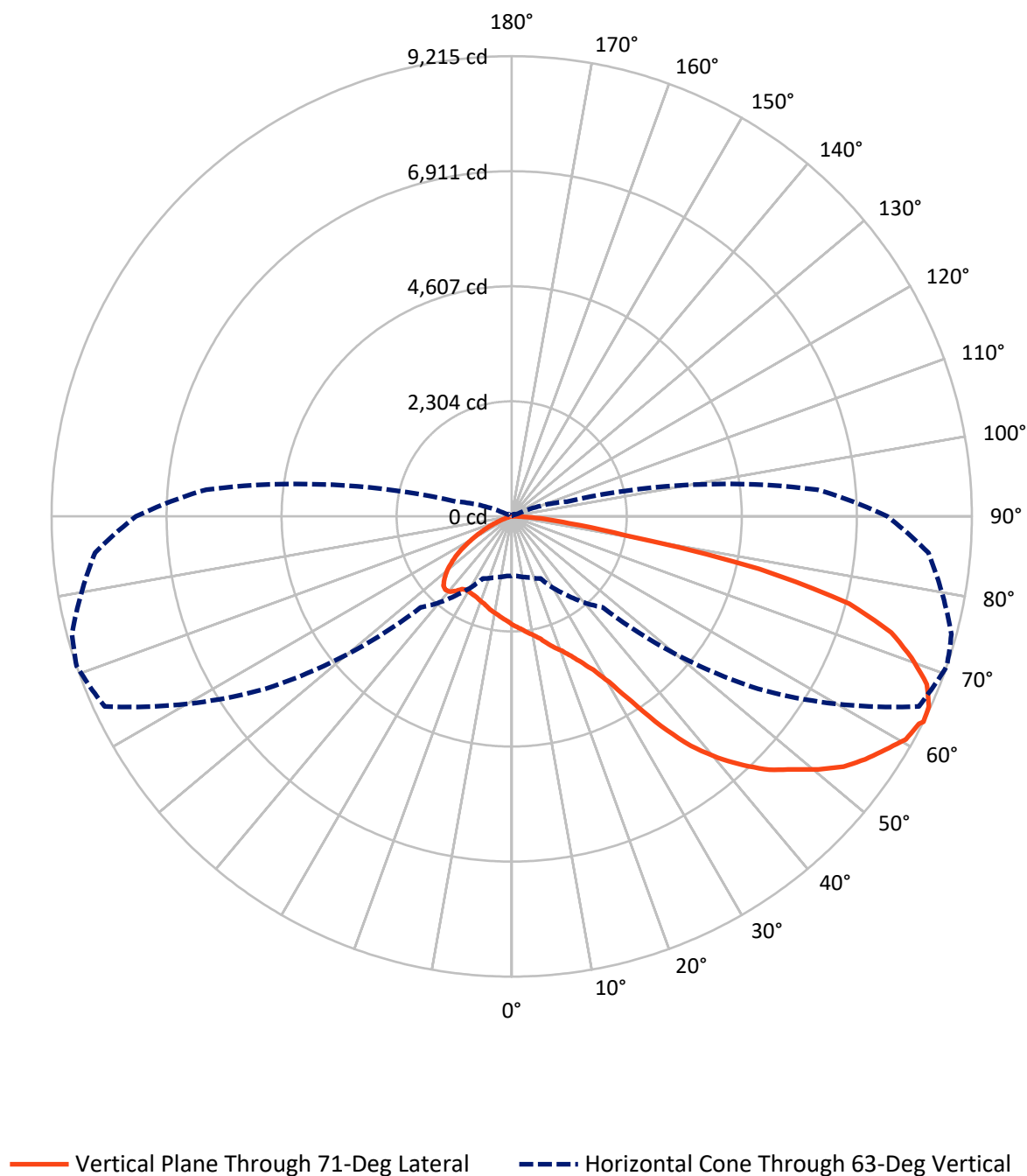


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P287003

CATALOG NUMBER: USSL-C027-D-U-T2-AP-7030-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P287003

CATALOG NUMBER: USSL-C027-D-U-T2-AP-7030-HSS

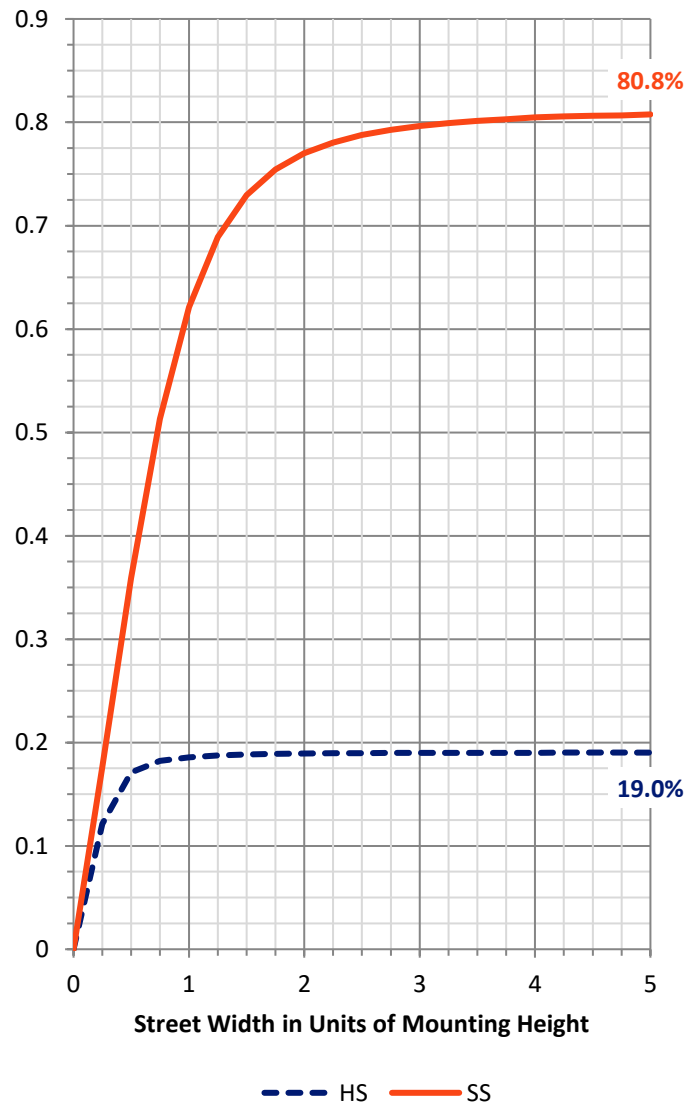
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.4	0.0	2432.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	10205.9	0.0	10205.9
	% Fixture	80.8	0.0	80.8
Total	Lumens	12638.2	0.0	12638.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	1.6
10°-20°	621.3	4.9
20°-30°	1044.9	8.3
30°-40°	1596.9	12.6
40°-50°	2224.6	17.6
50°-60°	2576.4	20.4
60°-70°	2551.5	20.2
70°-80°	1581.7	12.5
80°-90°	234.2	1.9
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°	12638.2	100.0
0°-180°	12638.2	100.0

Coefficient of Utilization



REPORT NUMBER: P287003

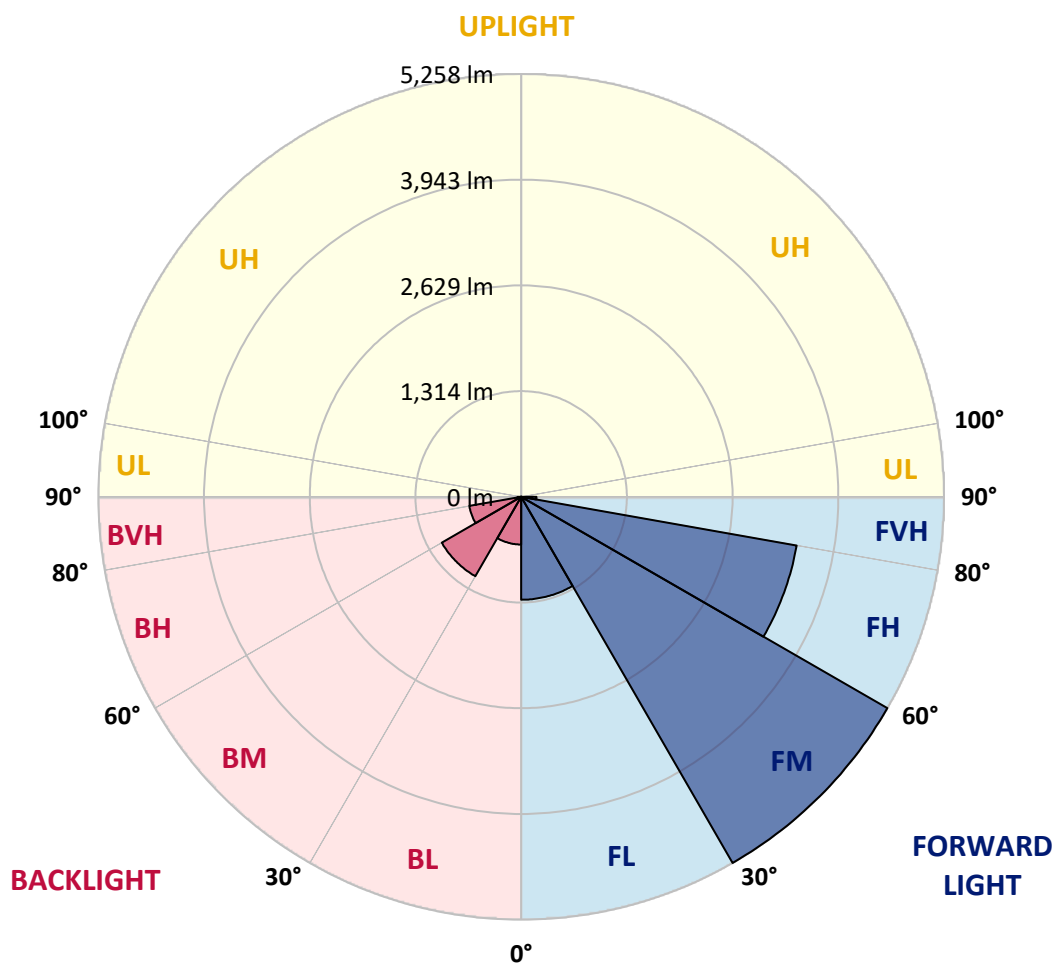
CATALOG NUMBER: USSL-C027-D-U-T2-AP-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.8	10.1			
FM	(30°-60°)	5257.7	41.6			
FH	(60°-80°)	3478.7	27.5			G2/5000
FVH	(80°-90°)	189.7	1.5			G2/225
BL	(0°-30°)	593.2	4.7	B2/1000		
BM	(30°-60°)	1140.2	9.0	B2/2500		
BH	(60°-80°)	654.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	44.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P287003

CATALOG NUMBER: USSL-C027-D-U-T2-AP-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2
2.5°	2392.2	2369.3	2368.7	2339.8	2318.4	2306.3	2273.5	2244.7	2219.7	2217.1	2172.9
5°	2522.2	2516.9	2509.5	2464.6	2444.4	2417.6	2381.4	2325.7	2280.8	2269.5	2199.0
7.5°	2669.1	2665.1	2650.4	2610.1	2559.1	2527.6	2457.2	2401.5	2353.9	2329.8	2234.6
10°	2753.6	2753.0	2751.6	2718.1	2678.5	2632.3	2557.1	2475.3	2420.3	2394.8	2257.4
12.5°	2887.8	2869.7	2863.6	2822.7	2772.4	2738.9	2669.8	2581.9	2507.5	2462.6	2309.0
15°	2995.7	2996.4	2985.0	2948.1	2910.6	2856.9	2798.6	2710.7	2628.9	2594.6	2397.5
17.5°	3129.9	3117.8	3104.3	3065.4	3025.9	2969.5	2933.4	2826.8	2759.7	2684.5	2475.3
20°	3215.0	3194.2	3179.5	3154.7	3138.6	3093.6	3060.8	2966.2	2874.3	2810.0	2562.5
22.5°	3274.0	3295.5	3289.5	3249.2	3255.3	3241.8	3200.3	3136.6	3033.3	2927.3	2663.1
25°	3310.3	3305.5	3340.4	3366.6	3412.2	3409.5	3378.6	3323.0	3231.1	3117.1	2813.3
27.5°	3321.0	3321.0	3377.3	3451.0	3558.4	3581.8	3585.9	3582.6	3480.6	3377.3	3010.4
30°	3337.1	3355.2	3409.5	3501.4	3657.0	3750.1	3794.4	3868.8	3843.4	3753.5	3332.4
32.5°	3273.4	3275.4	3354.5	3531.6	3758.2	3952.0	4039.3	4302.8	4414.8	4456.3	3984.9
35°	3068.2	3089.0	3233.1	3477.2	3805.1	4125.8	4362.4	4907.0	5153.9	5159.2	4609.3
37.5°	2926.0	2946.1	3101.1	3398.8	3842.0	4300.8	4732.0	5585.7	5835.2	5773.5	5147.8
40°	2770.4	2804.0	2968.2	3292.8	3836.7	4472.5	5127.1	6186.6	6352.9	6271.7	5588.4
42.5°	2618.8	2624.2	2785.8	3146.0	3809.2	4611.9	5513.3	6630.5	6814.3	6709.7	6020.3
45°	2435.1	2459.2	2618.8	2950.8	3718.0	4697.8	5853.3	7117.4	7239.5	7122.8	6381.1
47.5°	2223.1	2254.0	2459.2	2770.4	3515.5	4710.5	6159.1	7555.4	7567.5	7474.9	6760.7
50°	1716.8	1736.2	2158.1	2592.6	3273.4	4659.5	6450.9	7883.3	7961.8	7841.0	7084.6
52.5°	1554.6	1570.7	1688.6	2361.4	2949.5	4489.2	6654.7	8260.2	8323.9	8217.9	7401.2
55°	1490.1	1497.5	1539.1	1914.0	2677.8	4186.8	6783.5	8541.8	8587.5	8456.0	7663.4
57.5°	1377.4	1384.2	1472.7	1632.4	2449.9	3686.4	6767.4	8819.5	8816.1	8669.3	7934.9
60°	1292.3	1306.4	1381.5	1500.9	2174.9	3084.2	6546.7	9032.1	9065.0	8930.2	8132.8
62.5°	1211.9	1217.2	1280.9	1396.3	1951.6	2645.0	6131.6	9012.6	9151.5	9051.5	8381.6
63°	1189.0	1199.1	1262.1	1374.2	1919.4	2575.9	6019.6	8997.3	9214.6	9116.6	8375.5
65°	1118.6	1120.0	1181.7	1287.6	1765.8	2360.6	5647.5	8793.4	9181.7	9122.7	8479.5
67.5°	984.5	994.5	1049.5	1152.9	1509.6	2087.0	4685.7	8657.9	8968.4	8999.3	8309.8
70°	835.6	841.7	909.4	1010.6	1268.8	1770.5	3504.8	8185.7	8496.3	8534.5	7863.8
72.5°	655.2	658.5	732.3	850.4	1038.2	1462.0	2418.3	7362.9	7945.6	7945.6	7101.3
75°	205.8	243.5	513.0	685.4	839.0	1131.3	1588.7	5712.4	6984.0	7157.7	6080.0
77.5°	67.1	72.4	162.3	361.4	528.5	868.5	1054.9	3036.6	5073.3	5550.8	4795.7
80°	48.3	56.3	100.6	270.9	332.6	369.5	653.9	1655.1	2305.6	3021.9	3202.9
82.5°	24.8	32.2	71.1	172.3	189.1	186.4	290.4	782.6	1151.5	1390.9	1661.8
85°	11.4	14.1	30.8	60.3	52.4	49.0	102.6	409.8	649.2	767.2	828.9
87.5°	2.6	4.0	11.4	21.4	13.5	10.7	12.1	130.2	236.8	295.1	305.1
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: P287003

CATALOG NUMBER: USSL-C027-D-U-T2-AP-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2
2.5°	2154.0	2164.8	2113.9	2089.1	2046.8	2033.3	2012.5	1987.7	1979.7	1999.8	1986.5
5°	2172.9	2158.1	2084.3	2017.3	1960.9	1916.7	1883.1	1840.9	1815.4	1821.4	1825.5
7.5°	2180.2	2147.4	2042.7	1960.3	1865.0	1808.1	1747.0	1687.4	1661.8	1665.8	1668.5
10°	2187.6	2138.0	2014.6	1893.2	1779.9	1692.0	1622.3	1543.1	1505.0	1506.2	1518.9
12.5°	2231.2	2134.6	1991.1	1844.2	1697.3	1588.0	1502.9	1415.1	1360.7	1364.7	1374.8
15°	2292.9	2163.5	1960.9	1771.8	1617.6	1493.5	1387.5	1290.3	1248.8	1254.7	1264.1
17.5°	2345.9	2195.7	1937.5	1695.4	1521.0	1387.5	1291.6	1208.5	1132.7	1144.1	1137.4
20°	2399.5	2241.3	1930.1	1631.0	1437.9	1284.3	1175.6	1108.5	1014.6	989.2	981.1
22.5°	2485.4	2292.2	1923.4	1571.9	1339.3	1193.8	1058.3	959.6	824.9	778.6	760.5
25°	2598.0	2365.4	1913.3	1518.9	1257.5	1085.8	902.0	725.0	625.0	566.0	538.5
27.5°	2750.2	2470.0	1928.1	1472.1	1174.9	957.6	684.7	526.5	437.2	386.3	357.4
30°	3005.1	2606.7	1931.5	1429.8	1074.3	763.9	487.6	366.2	290.4	255.5	238.1
32.5°	3565.1	3021.9	1961.6	1381.5	966.4	562.0	339.4	245.5	185.1	163.0	173.0
35°	4154.0	3531.6	2070.2	1313.1	797.4	380.3	224.0	159.0	118.7	122.1	125.4
37.5°	4600.6	3927.2	2298.3	1229.3	599.6	260.2	134.8	108.6	104.6	114.0	131.4
40°	5039.8	4320.9	2501.5	1128.1	406.4	156.2	91.3	99.9	93.9	97.9	99.2
42.5°	5424.8	4634.7	2647.0	978.5	251.5	91.9	79.8	92.5	85.9	83.8	73.8
45°	5797.0	4906.4	2736.9	771.9	144.1	73.1	73.1	88.5	83.2	78.4	67.1
47.5°	6126.2	5210.2	2714.7	533.1	87.9	65.7	68.4	79.8	77.8	71.8	65.7
50°	6429.4	5430.1	2657.1	302.5	77.2	62.3	66.3	66.3	69.7	54.4	49.6
52.5°	6693.6	5625.3	2471.3	161.6	71.8	59.7	59.7	53.0	56.3	41.5	39.5
55°	6965.2	5829.9	2209.8	126.8	68.4	59.7	53.0	46.3	42.3	30.2	32.2
57.5°	7188.6	5980.7	1871.0	114.0	70.4	57.0	48.3	40.3	33.5	23.4	22.8
60°	7395.1	6105.4	1542.5	101.2	75.8	57.7	40.3	33.5	23.4	18.8	16.7
62.5°	7519.8	6133.6	1196.4	91.9	75.8	53.0	36.2	28.2	18.1	12.7	12.1
63°	7523.8	6142.3	1142.0	91.3	77.2	53.0	36.2	27.5	16.7	12.1	11.4
65°	7582.8	5960.6	901.3	89.2	78.4	50.3	34.2	22.2	14.1	9.4	8.7
67.5°	7357.5	5610.6	592.8	87.9	78.4	49.0	30.2	18.8	12.1	7.4	6.0
70°	6762.1	5011.6	362.8	84.5	79.8	48.3	37.5	16.1	10.7	5.4	4.7
72.5°	5941.2	4426.9	208.6	75.1	78.4	39.5	21.4	14.1	9.4	4.0	3.4
75°	5029.1	3558.4	131.4	58.3	61.1	32.9	18.1	12.7	8.1	2.0	2.0
77.5°	3821.3	2560.5	112.7	44.9	36.2	28.8	15.5	10.1	5.4	0.6	0.6
80°	2698.6	1809.4	81.2	28.2	20.1	18.1	11.4	6.7	2.0	0.0	0.0
82.5°	1518.9	988.5	44.3	10.1	6.0	6.7	5.4	2.6	0.0	0.0	0.0
85°	716.3	386.3	22.2	6.7	3.4	2.6	0.6	0.0	0.0	0.0	0.0
87.5°	266.2	93.3	5.4	2.6	2.0	0.6	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)