

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-BZ-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-BZ-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11924 lumens
Efficiency: N/A
Efficacy: 124.2 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



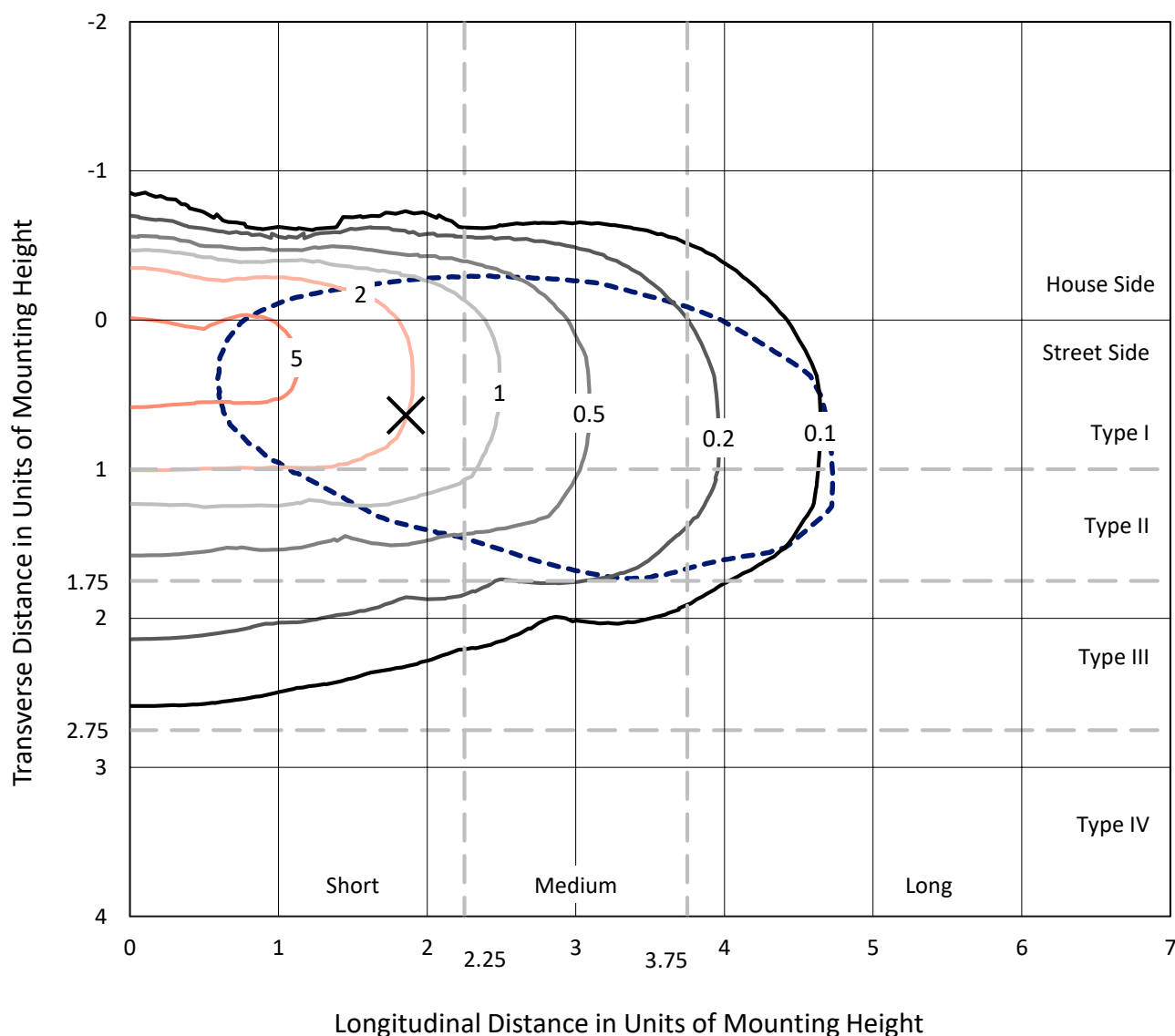
REPORT NUMBER: P287003

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

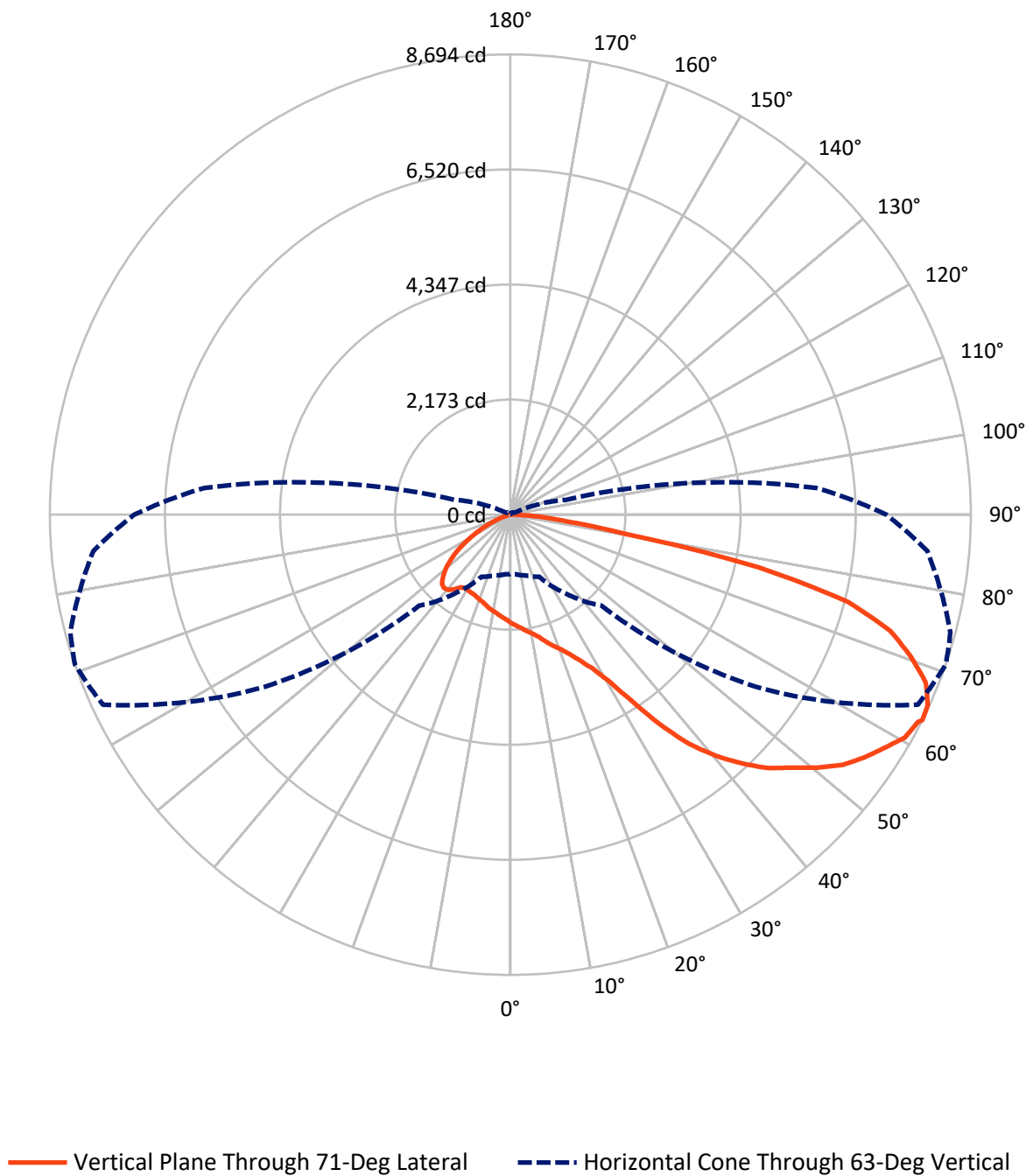


Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P287003

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

Luminous Intensity Polar Plot



REPORT NUMBER: P287003

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

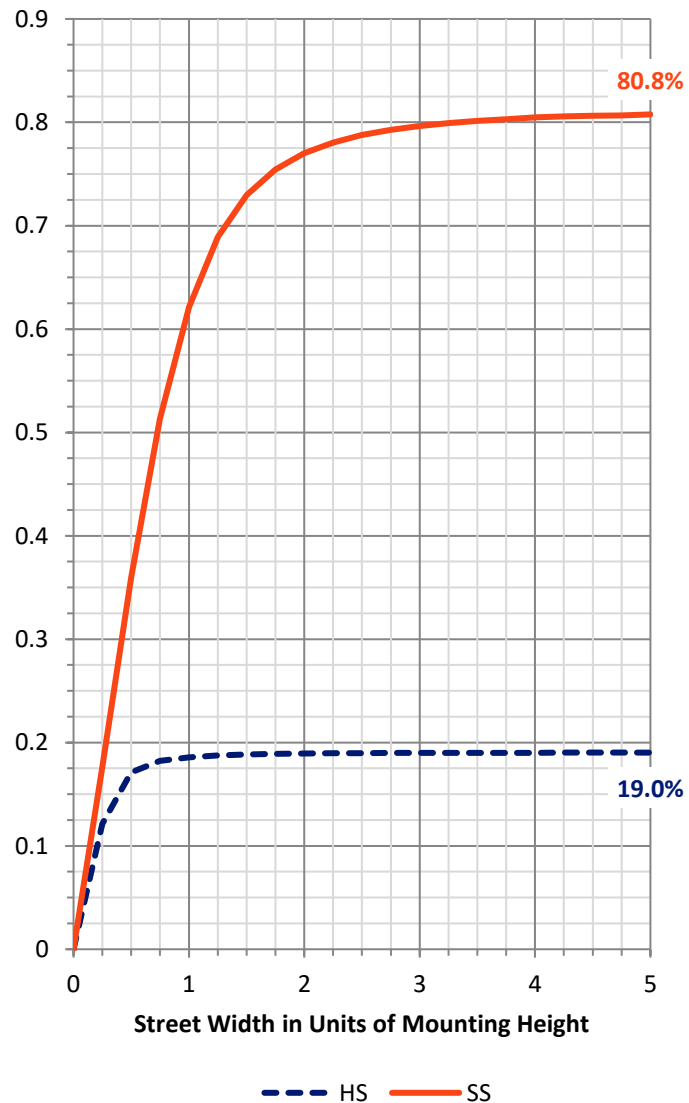
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2294.9	0.0	2294.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	9629.1	0.0	9629.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	11924.0	0.0	11924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	1.6
10°-20°	586.2	4.9
20°-30°	985.8	8.3
30°-40°	1506.6	12.6
40°-50°	2098.8	17.6
50°-60°	2430.8	20.4
60°-70°	2407.3	20.2
70°-80°	1492.3	12.5
80°-90°	221.0	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°	11924.0	100.0
0°-180°	11924.0	100.0

Coefficient of Utilization



REPORT NUMBER: P287003

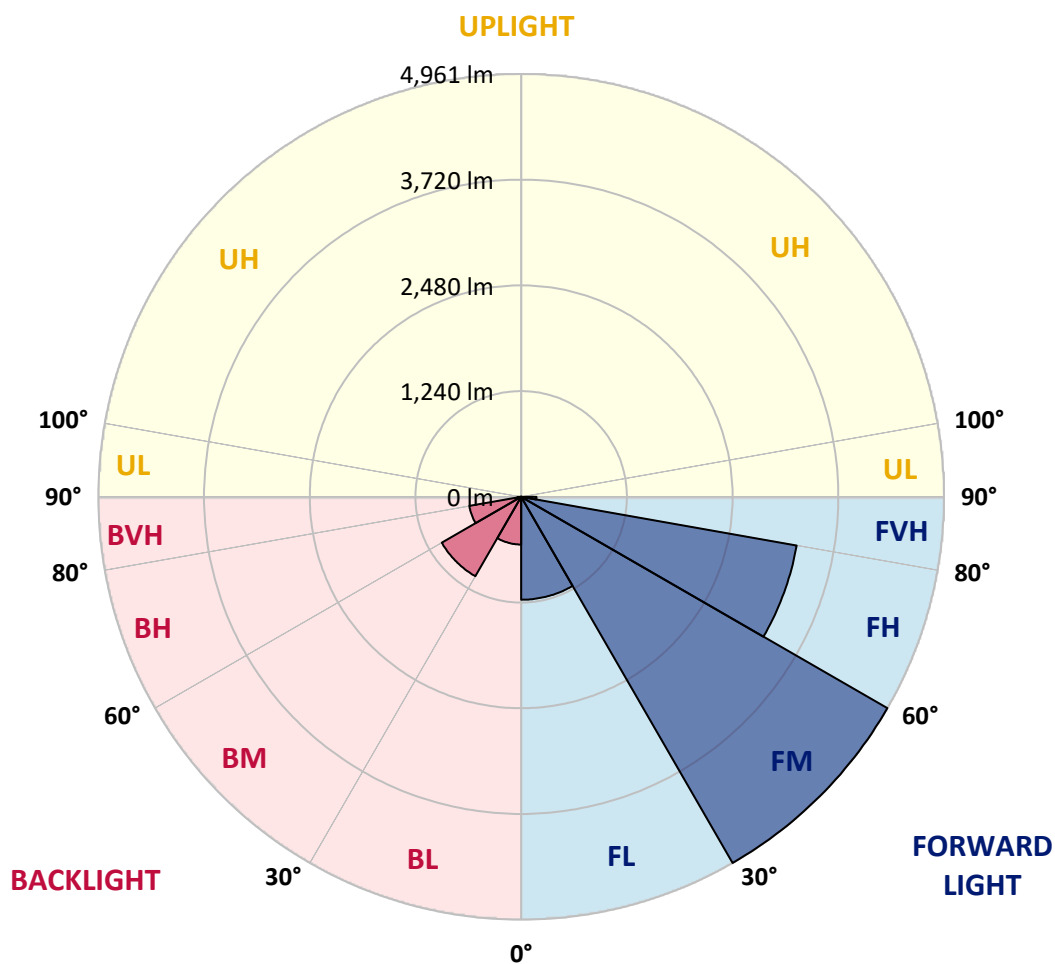
CATALOG NUMBER: USSL-C027-D-U-T2-BZ-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.5	10.1			
FM	(30°-60°)	4960.5	41.6			
FH	(60°-80°)	3282.1	27.5			G2/5000
FVH	(80°-90°)	179.0	1.5			G2/225
BL	(0°-30°)	559.7	4.7	B2/1000		
BM	(30°-60°)	1075.8	9.0	B2/2500		
BH	(60°-80°)	617.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	42.0	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

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4
2.5°	2257.0	2235.4	2234.8	2207.6	2187.4	2176.0	2145.0	2117.8	2094.3	2091.8	2050.1
5°	2379.7	2374.7	2367.7	2325.3	2306.3	2281.0	2246.8	2194.3	2151.9	2141.2	2074.7
7.5°	2518.3	2514.5	2500.6	2462.6	2414.5	2384.8	2318.3	2265.8	2220.9	2198.1	2108.3
10°	2598.0	2597.4	2596.1	2564.5	2527.1	2483.5	2412.6	2335.4	2283.5	2259.5	2129.8
12.5°	2724.6	2707.5	2701.8	2663.2	2615.7	2584.1	2518.9	2436.0	2365.8	2323.4	2178.5
15°	2826.4	2827.1	2816.3	2781.5	2746.1	2695.4	2640.4	2557.5	2480.3	2448.0	2262.0
17.5°	2953.0	2941.6	2928.9	2892.2	2854.9	2801.7	2767.6	2667.0	2603.7	2532.8	2335.4
20°	3033.3	3013.7	2999.8	2976.4	2961.2	2918.8	2887.8	2798.6	2711.9	2651.2	2417.7
22.5°	3089.0	3109.3	3103.6	3065.6	3071.3	3058.6	3019.4	2959.3	2861.9	2761.9	2512.6
25°	3123.2	3118.7	3151.6	3176.3	3219.4	3216.8	3187.7	3135.2	3048.5	2940.9	2654.3
27.5°	3133.3	3133.3	3186.4	3256.0	3357.3	3379.4	3383.2	3380.1	3283.9	3186.4	2840.3
30°	3148.5	3165.6	3216.8	3303.5	3450.3	3538.2	3580.0	3650.2	3626.2	3541.4	3144.1
32.5°	3088.4	3090.3	3164.9	3332.0	3545.8	3728.7	3811.0	4059.6	4165.3	4204.5	3759.7
35°	2894.8	2914.4	3050.4	3280.7	3590.1	3892.6	4115.9	4629.7	4862.6	4867.6	4348.8
37.5°	2760.6	2779.6	2925.8	3206.7	3624.9	4057.7	4464.6	5270.0	5505.4	5447.2	4856.9
40°	2613.8	2645.5	2800.5	3106.7	3619.9	4219.7	4837.3	5837.0	5993.9	5917.3	5272.6
42.5°	2470.8	2475.9	2628.4	2968.2	3593.9	4351.3	5201.7	6255.8	6429.2	6330.5	5680.1
45°	2297.5	2320.2	2470.8	2784.0	3507.9	4432.3	5522.5	6715.2	6830.4	6720.3	6020.5
47.5°	2097.5	2126.6	2320.2	2613.8	3316.8	4444.3	5811.0	7128.4	7139.8	7052.5	6378.6
50°	1619.8	1638.1	2036.1	2446.1	3088.4	4396.2	6086.3	7437.8	7511.8	7397.9	6684.2
52.5°	1466.7	1481.9	1593.2	2227.9	2782.8	4235.5	6278.6	7793.4	7853.5	7753.5	6982.9
55°	1405.9	1412.9	1452.1	1805.8	2526.5	3950.2	6400.1	8059.1	8102.2	7978.1	7230.3
57.5°	1299.6	1306.0	1389.5	1540.1	2311.4	3478.1	6384.9	8321.1	8317.9	8179.4	7486.5
60°	1219.3	1232.6	1303.4	1416.1	2052.0	2909.9	6176.7	8521.7	8552.7	8425.5	7673.2
62.5°	1143.4	1148.4	1208.5	1317.4	1841.3	2495.5	5785.1	8503.3	8634.3	8540.0	7907.9
63°	1121.8	1131.3	1190.8	1296.5	1810.9	2430.3	5679.4	8488.8	8693.8	8601.4	7902.2
65°	1055.4	1056.7	1114.9	1214.8	1666.0	2227.2	5328.3	8296.4	8662.8	8607.1	8000.3
67.5°	928.9	938.3	990.2	1087.7	1424.3	1969.1	4420.9	8168.6	8461.6	8490.7	7840.2
70°	788.4	794.1	858.0	953.5	1197.1	1670.4	3306.7	7723.1	8016.1	8052.2	7419.4
72.5°	618.2	621.3	690.9	802.3	979.5	1379.4	2281.6	6946.8	7496.6	7496.6	6700.0
75°	194.2	229.7	484.0	646.7	791.6	1067.4	1498.9	5389.6	6589.3	6753.2	5736.4
77.5°	63.3	68.3	153.1	341.0	498.6	819.4	995.3	2865.0	4786.6	5237.1	4524.7
80°	45.6	53.1	94.9	255.6	313.8	348.6	616.9	1561.6	2175.3	2851.1	3021.9
82.5°	23.4	30.4	67.1	162.6	178.4	175.9	274.0	738.4	1086.4	1312.3	1567.9
85°	10.8	13.3	29.1	56.9	49.4	46.2	96.8	386.6	612.5	723.8	782.1
87.5°	2.5	3.8	10.8	20.2	12.7	10.1	11.4	122.8	223.4	278.4	287.9
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-BZ-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4	2049.4
2.5°	2032.3	2042.5	1994.4	1971.0	1931.1	1918.4	1898.8	1875.4	1867.8	1886.8	1874.2
5°	2050.1	2036.1	1966.5	1903.3	1850.1	1808.4	1776.7	1736.9	1712.8	1718.5	1722.3
7.5°	2057.0	2026.0	1927.3	1849.5	1759.6	1705.9	1648.3	1592.0	1567.9	1571.7	1574.2
10°	2064.0	2017.2	1900.7	1786.2	1679.3	1596.4	1530.6	1455.9	1419.9	1421.1	1433.1
12.5°	2105.1	2014.0	1878.6	1740.0	1601.4	1498.3	1418.0	1335.1	1283.8	1287.6	1297.1
15°	2163.3	2041.2	1850.1	1671.7	1526.2	1409.1	1309.1	1217.4	1178.2	1183.8	1192.7
17.5°	2213.3	2071.6	1828.0	1599.6	1435.0	1309.1	1218.6	1140.2	1068.7	1079.4	1073.1
20°	2263.9	2114.6	1821.0	1538.8	1356.6	1211.7	1109.2	1045.9	957.3	933.3	925.7
22.5°	2344.9	2162.7	1814.7	1483.1	1263.6	1126.3	998.5	905.4	778.3	734.6	717.5
25°	2451.2	2231.7	1805.2	1433.1	1186.4	1024.4	851.0	684.0	589.7	534.0	508.1
27.5°	2594.8	2330.4	1819.1	1388.9	1108.5	903.5	646.0	496.7	412.5	364.5	337.2
30°	2835.3	2459.4	1822.3	1349.0	1013.6	720.7	460.0	345.5	274.0	241.1	224.6
32.5°	3363.6	2851.1	1850.7	1303.4	911.8	530.2	320.2	231.6	174.6	153.8	163.2
35°	3919.2	3332.0	1953.2	1238.9	752.3	358.8	211.3	150.0	112.0	115.2	118.3
37.5°	4340.6	3705.3	2168.4	1159.8	565.7	245.5	127.2	102.5	98.7	107.6	124.0
40°	4755.0	4076.7	2360.1	1064.3	383.4	147.4	86.1	94.3	88.6	92.4	93.6
42.5°	5118.2	4372.8	2497.4	923.2	237.3	86.7	75.3	87.3	81.0	79.1	69.6
45°	5469.4	4629.1	2582.2	728.3	136.0	69.0	69.0	83.5	78.5	74.0	63.3
47.5°	5780.0	4915.7	2561.3	503.0	82.9	62.0	64.5	75.3	73.4	67.7	62.0
50°	6066.0	5123.2	2506.9	285.4	72.8	58.8	62.6	62.6	65.8	51.3	46.8
52.5°	6315.3	5307.4	2331.6	152.5	67.7	56.3	56.3	50.0	53.1	39.2	37.3
55°	6571.6	5500.4	2084.9	119.6	64.5	56.3	50.0	43.7	39.9	28.5	30.4
57.5°	6782.3	5642.7	1765.3	107.6	66.4	53.8	45.6	38.0	31.6	22.1	21.5
60°	6977.2	5760.4	1455.3	95.5	71.5	54.4	38.0	31.6	22.1	17.7	15.8
62.5°	7094.8	5787.0	1128.8	86.7	71.5	50.0	34.2	26.6	17.1	12.0	11.4
63°	7098.6	5795.2	1077.5	86.1	72.8	50.0	34.2	25.9	15.8	11.4	10.8
65°	7154.3	5623.7	850.4	84.2	74.0	47.5	32.3	20.9	13.3	8.9	8.2
67.5°	6941.7	5293.5	559.3	82.9	74.0	46.2	28.5	17.7	11.4	7.0	5.7
70°	6379.9	4728.4	342.3	79.7	75.3	45.6	35.4	15.2	10.1	5.1	4.4
72.5°	5605.4	4176.7	196.8	70.9	74.0	37.3	20.2	13.3	8.9	3.8	3.2
75°	4744.9	3357.3	124.0	55.0	57.6	31.0	17.1	12.0	7.6	1.9	1.9
77.5°	3605.3	2415.8	106.3	42.4	34.2	27.2	14.6	9.5	5.1	0.6	0.6
80°	2546.1	1707.1	76.6	26.6	19.0	17.1	10.8	6.3	1.9	0.0	0.0
82.5°	1433.1	932.6	41.8	9.5	5.7	6.3	5.1	2.5	0.0	0.0	0.0
85°	675.8	364.5	20.9	6.3	3.2	2.5	0.6	0.0	0.0	0.0	0.0
87.5°	251.2	88.0	5.1	2.5	1.9	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)