

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: P287023

Luminaire Tested: **USSL-C027-D-U-T3-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
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-T3-AP-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12692.3 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

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



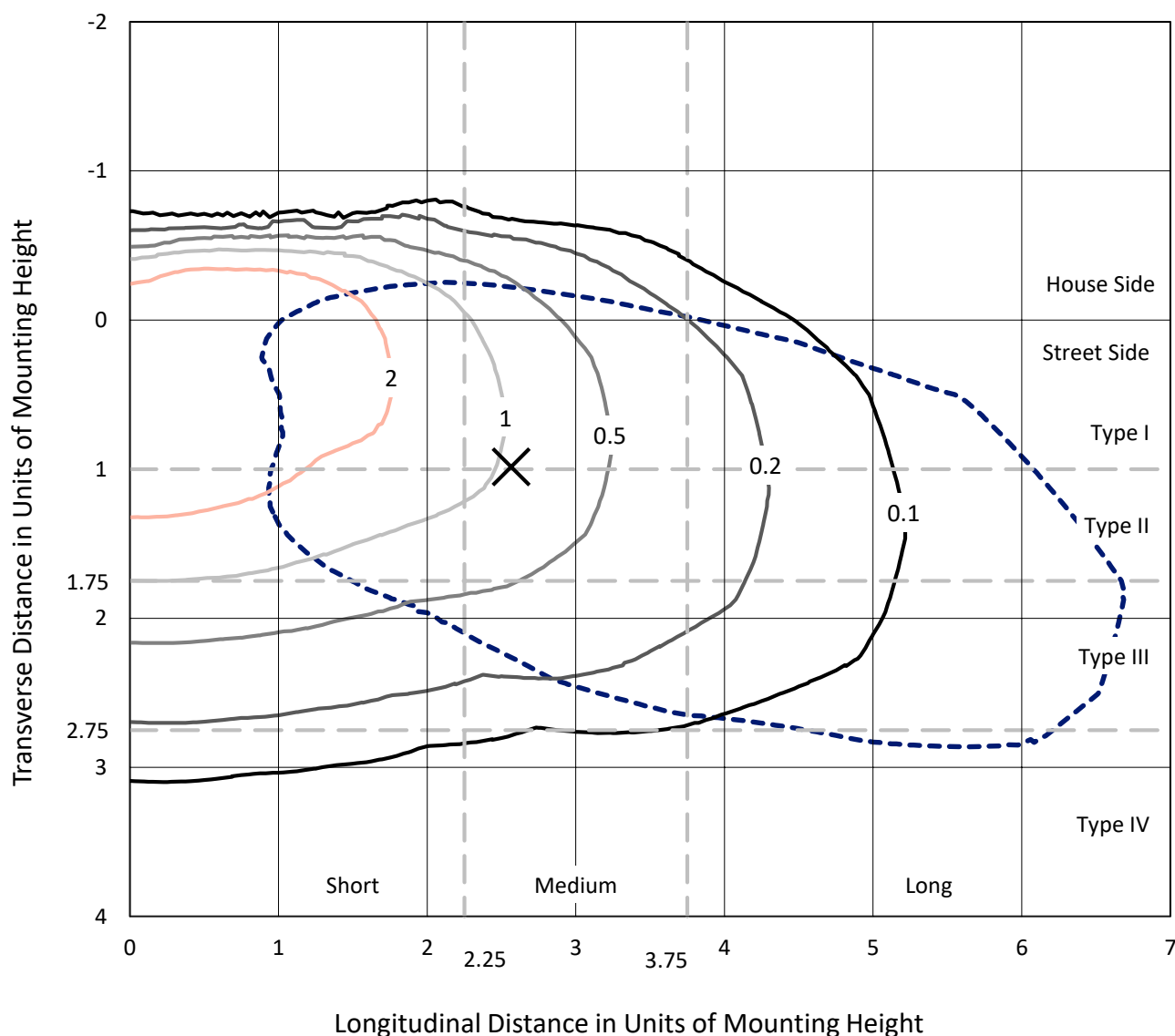
REPORT NUMBER: P287023

CATALOG NUMBER: USSL-C027-D-U-T3-AP-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

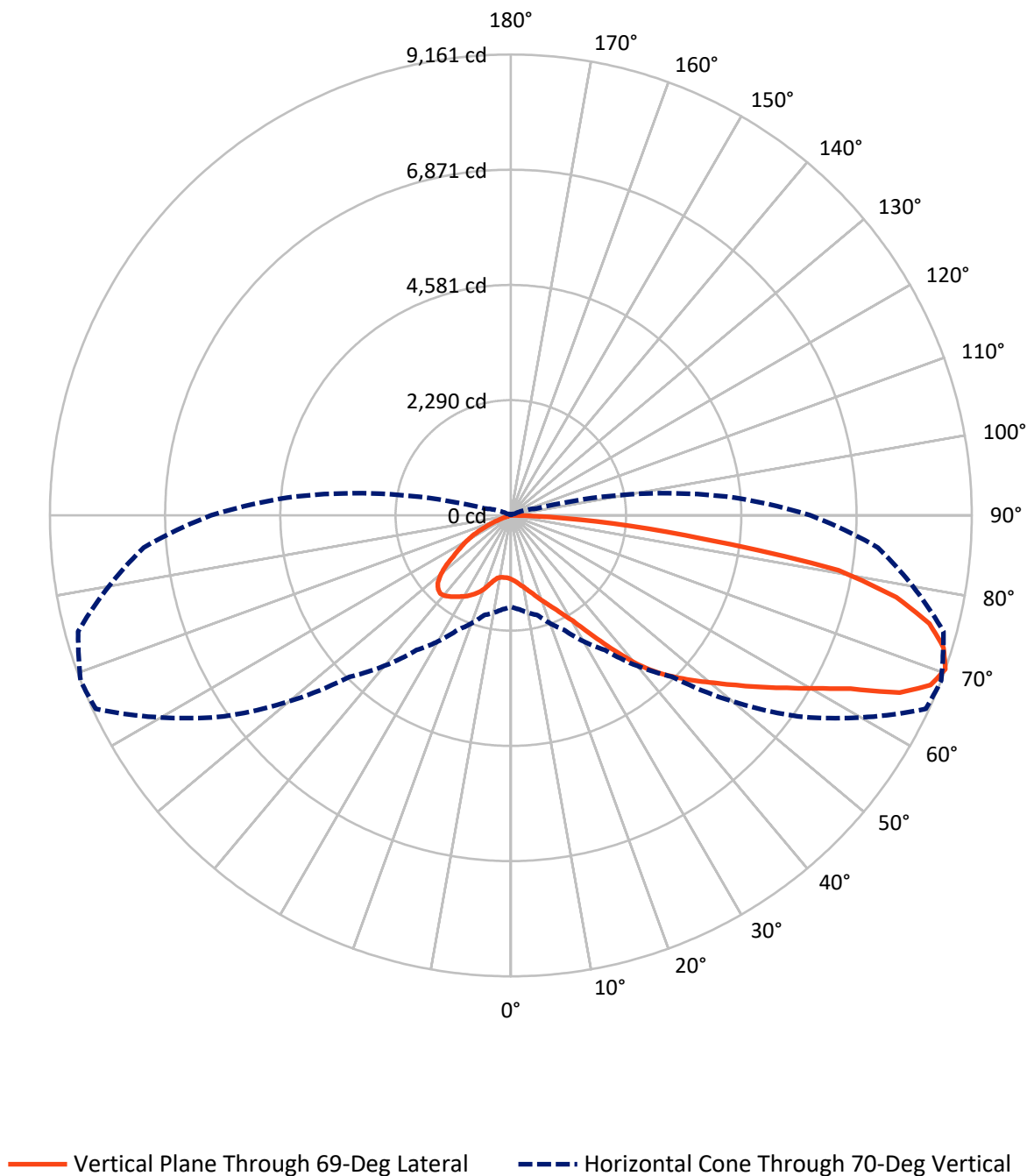


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P287023

CATALOG NUMBER: USSL-C027-D-U-T3-AP-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P287023

CATALOG NUMBER: USSL-C027-D-U-T3-AP-HSS

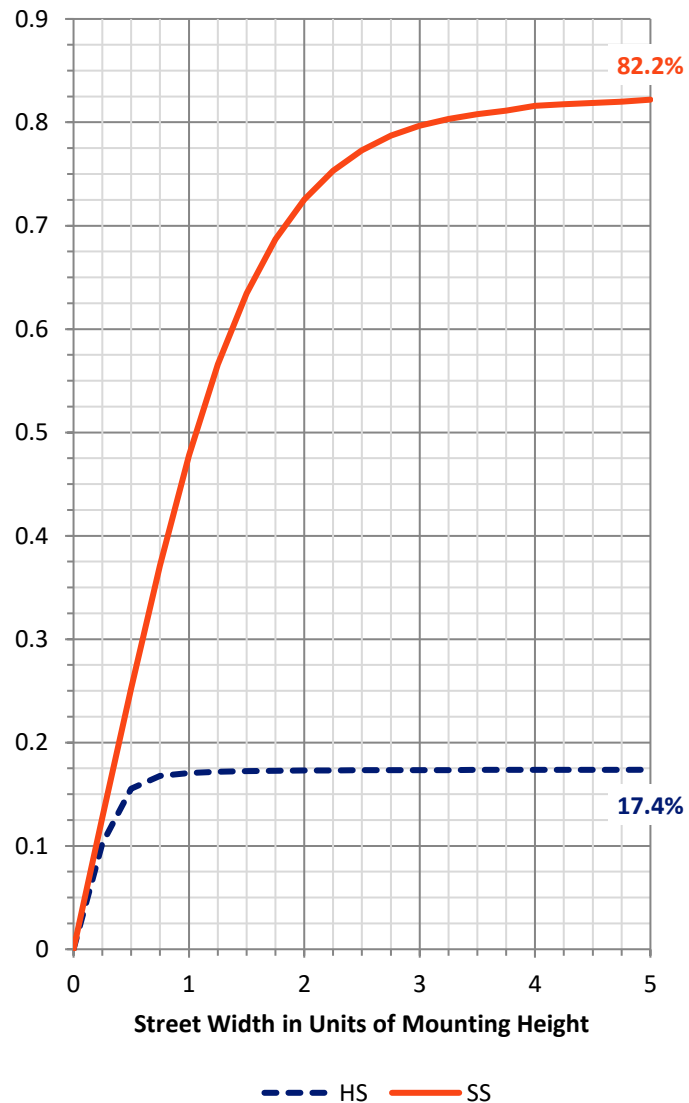
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2229.6	0.0	2229.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10462.7	0.0	10462.7
	% Fixture	82.4	0.0	82.4
Total	Lumens	12692.3	0.0	12692.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.0
10°-20°	391.4	3.1
20°-30°	718.0	5.7
30°-40°	1233.1	9.7
40°-50°	1927.1	15.2
50°-60°	2573.7	20.3
60°-70°	3011.9	23.7
70°-80°	2262.6	17.8
80°-90°	451.1	3.6
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°	12692.3	100.0
0°-180°	12692.3	100.0

Coefficient of Utilization



REPORT NUMBER: P287023

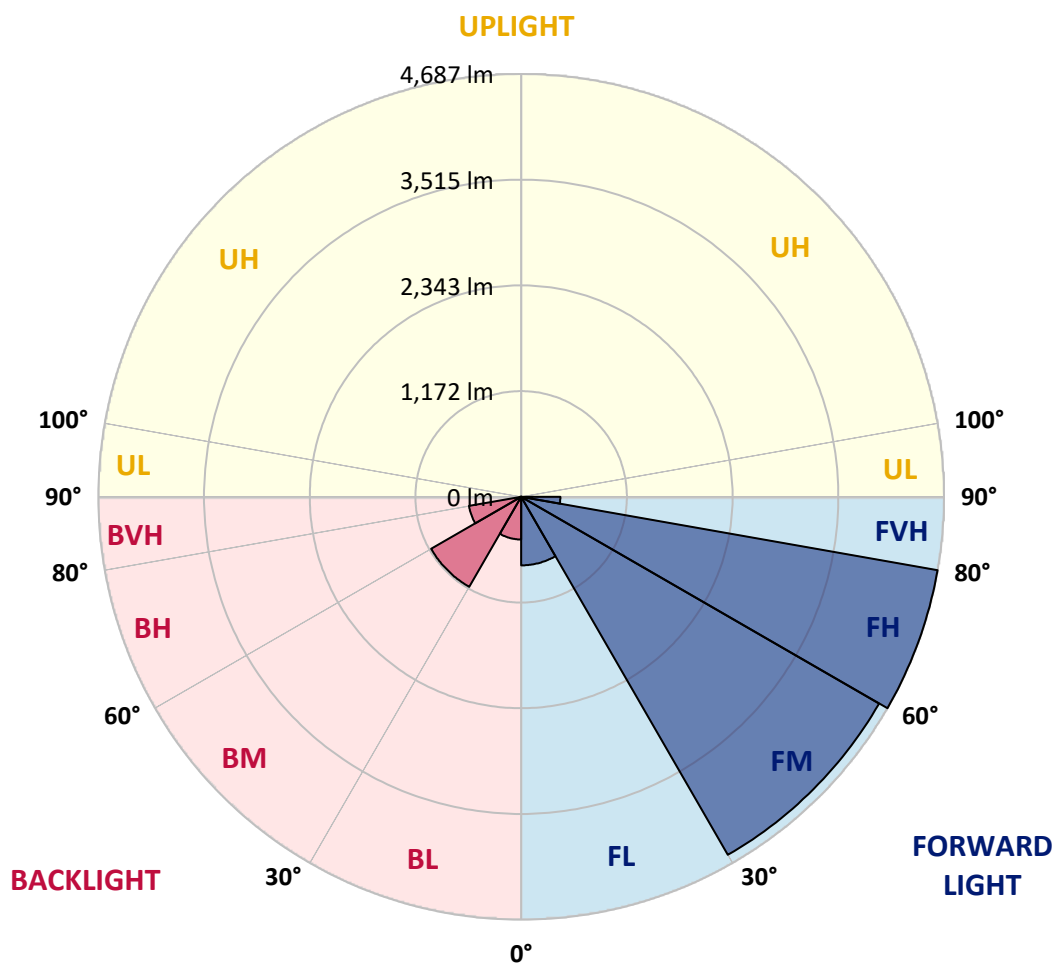
CATALOG NUMBER: USSL-C027-D-U-T3-AP-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	759.7	6.0			
FM	(30°-60°)	4581.7	36.1			
FH	(60°-80°)	4686.9	36.9			G2/5000
FVH	(80°-90°)	434.3	3.4			G3/500
BL	(0°-30°)	473.1	3.7	B1/500		
BM	(30°-60°)	1152.2	9.1	B2/2500		
BH	(60°-80°)	587.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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-G3

Type III Medium





REPORT NUMBER: P287023

CATALOG NUMBER: USSL-C027-D-U-T3-AP-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1
2.5°	1357.2	1366.7	1360.6	1338.8	1334.6	1333.4	1318.9	1306.6	1299.1	1297.1	1273.9
5°	1431.0	1438.5	1436.5	1411.9	1405.0	1389.3	1377.0	1344.9	1340.1	1333.4	1305.3
7.5°	1486.3	1487.7	1500.0	1479.5	1472.6	1453.5	1435.7	1406.4	1401.0	1390.0	1350.4
10°	1537.5	1547.1	1553.9	1528.0	1538.9	1515.0	1493.8	1473.4	1450.8	1450.2	1400.2
12.5°	1570.3	1575.8	1590.8	1570.3	1586.0	1585.4	1566.2	1543.0	1530.1	1518.4	1461.7
15°	1590.8	1597.0	1616.8	1632.5	1638.0	1646.9	1646.1	1628.4	1605.9	1601.7	1543.0
17.5°	1622.9	1628.4	1643.4	1668.7	1687.8	1707.6	1723.3	1724.7	1711.0	1706.2	1652.3
20°	1671.5	1670.7	1678.9	1693.3	1729.4	1773.2	1808.0	1821.0	1815.5	1814.9	1775.2
22.5°	1722.7	1719.9	1728.1	1735.0	1772.5	1845.6	1902.9	1935.8	1937.8	1933.7	1926.9
25°	1804.6	1790.9	1790.3	1797.8	1847.6	1932.3	2007.5	2063.5	2068.8	2079.8	2140.7
27.5°	2013.0	2010.8	1950.1	1898.2	1931.7	2028.0	2138.7	2212.4	2237.7	2279.3	2394.1
30°	2312.8	2301.1	2275.9	2155.0	2064.9	2153.0	2292.4	2406.4	2433.0	2581.3	2683.7
32.5°	2581.9	2569.0	2558.7	2446.7	2322.3	2302.5	2442.5	2637.2	2713.8	2943.2	3019.8
35°	2816.9	2809.4	2809.4	2734.2	2608.5	2523.2	2622.9	2883.1	3066.9	3387.9	3408.4
37.5°	3030.0	3036.2	3044.4	2961.7	2897.4	2870.2	2862.7	3187.8	3461.6	3799.1	3801.9
40°	3218.5	3232.2	3248.6	3188.5	3144.7	3168.7	3124.3	3555.2	3896.1	4262.2	4176.1
42.5°	3365.4	3383.8	3466.5	3383.1	3415.2	3463.8	3454.2	3846.9	4269.1	4601.0	4517.7
45°	3474.7	3489.0	3538.9	3562.7	3639.3	3736.3	3757.5	4146.1	4588.7	4909.8	4796.4
47.5°	3560.0	3549.8	3579.8	3702.1	3863.3	3971.9	4055.9	4489.0	4901.5	5195.2	5040.2
50°	3599.6	3598.3	3672.8	3823.1	4058.7	4213.7	4374.9	4936.4	5228.7	5467.8	5292.3
52.5°	3629.0	3652.9	3770.4	3946.0	4253.4	4465.0	4634.5	5369.5	5600.9	5767.7	5568.9
55°	3650.9	3697.4	3812.8	4013.6	4387.2	4681.6	4907.0	5762.9	6017.7	6051.1	5818.2
57.5°	3514.9	3564.1	3746.5	4033.3	4491.8	4868.8	5187.8	6214.4	6469.1	6449.3	6085.3
60°	3284.7	3324.4	3547.1	3976.7	4504.7	5077.1	5589.4	6716.4	6975.3	6972.6	6401.5
62.5°	3041.6	3077.1	3297.0	3789.6	4418.0	5190.4	6058.0	7469.8	7577.8	7470.5	6689.8
65°	2732.2	2768.4	2987.0	3475.3	4204.2	5184.3	6453.4	8275.8	8493.0	8182.9	7014.2
67.5°	2322.3	2380.4	2577.8	3030.0	3792.3	4986.9	6796.3	8883.7	8999.8	8719.8	7215.7
70°	1816.9	1873.6	2051.9	2513.7	3267.0	4535.4	6965.0	9101.6	9161.0	8902.1	7321.6
72.5°	1269.1	1316.2	1396.8	1796.4	2538.9	3838.7	6954.7	8996.4	8993.7	8730.7	7080.4
75°	452.2	515.7	842.2	1085.3	1478.1	2823.0	6499.8	8563.4	8593.5	8355.0	6583.9
77.5°	117.4	122.9	259.6	523.9	830.5	1365.4	4827.1	7749.9	7831.2	7554.5	5788.9
80°	86.1	90.2	125.0	364.7	475.4	601.1	2647.5	6350.3	6602.3	6458.2	4438.4
82.5°	60.8	65.6	91.6	240.4	314.2	399.6	994.5	3448.7	3848.9	3825.7	2190.5
85°	38.3	41.7	57.3	86.1	119.6	160.5	280.0	1770.5	2031.4	2141.3	957.6
87.5°	17.8	20.5	32.1	51.2	73.1	84.7	84.7	379.8	473.4	502.7	204.2
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: P287023

CATALOG NUMBER: USSL-C027-D-U-T3-AP-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1
2.5°	1261.6	1269.8	1252.1	1241.8	1220.6	1210.4	1204.9	1194.6	1192.0	1196.7	1201.5
5°	1291.0	1293.0	1256.8	1226.1	1199.4	1169.4	1155.1	1125.0	1112.0	1116.8	1122.2
7.5°	1328.5	1325.1	1269.8	1224.0	1176.2	1134.5	1105.2	1057.4	1043.7	1040.3	1047.8
10°	1364.1	1346.9	1285.4	1223.3	1159.8	1102.4	1057.4	1006.8	974.0	969.9	971.3
12.5°	1428.2	1395.5	1324.5	1237.0	1160.5	1097.6	1032.1	957.6	919.4	907.1	907.1
15°	1517.0	1462.5	1395.5	1295.1	1204.3	1114.7	1021.1	924.1	857.2	827.9	827.1
17.5°	1612.6	1566.2	1495.2	1375.6	1256.1	1129.1	997.3	871.6	783.5	741.8	737.7
20°	1744.5	1717.9	1636.6	1472.6	1306.0	1131.1	967.2	806.7	687.9	631.2	618.9
22.5°	1930.9	1894.8	1758.8	1548.5	1323.1	1114.1	909.8	702.2	556.0	481.5	474.0
25°	2123.6	2068.3	1877.7	1601.7	1336.0	1079.9	827.1	557.4	399.6	329.9	321.0
27.5°	2336.7	2250.0	1979.5	1652.3	1320.3	1021.1	681.0	387.9	259.6	215.2	206.3
30°	2583.9	2457.6	2088.7	1687.1	1303.3	902.3	504.1	251.4	168.0	135.2	133.2
32.5°	2890.7	2715.8	2196.6	1704.2	1241.8	747.2	325.8	160.5	103.9	87.4	84.7
35°	3256.8	3012.9	2341.5	1700.8	1141.4	541.0	204.2	94.2	69.0	66.2	66.2
37.5°	3603.8	3336.7	2514.9	1686.4	982.2	344.9	116.8	61.5	60.1	69.0	73.1
40°	3954.8	3652.9	2702.1	1647.5	780.7	207.6	64.9	54.7	57.3	67.6	71.8
42.5°	4260.2	3902.2	2883.1	1562.8	549.9	111.3	57.3	51.2	53.9	58.7	59.5
45°	4506.7	4133.8	2980.9	1444.0	325.8	70.4	54.7	49.2	47.2	49.2	49.8
47.5°	4771.8	4331.2	3060.0	1268.4	176.3	69.0	53.9	45.8	41.7	40.3	41.7
50°	4969.1	4540.9	3088.0	1008.8	92.8	66.2	51.2	41.7	37.5	40.3	41.0
52.5°	5159.7	4702.1	3075.1	704.2	78.5	60.8	47.2	38.9	35.5	43.7	45.8
55°	5413.9	4900.9	2981.5	342.9	76.5	57.3	42.4	34.1	34.1	34.1	34.1
57.5°	5646.1	5037.5	2794.3	156.4	73.8	52.6	38.3	30.7	26.0	28.7	29.4
60°	5886.5	5248.5	2475.4	99.7	69.6	45.8	32.8	26.6	22.6	22.6	23.2
62.5°	6124.8	5293.6	2032.0	88.1	66.2	41.7	28.7	23.2	19.1	19.1	20.5
65°	6321.6	5218.5	1496.6	78.5	62.9	37.5	26.0	21.2	16.4	15.7	16.4
67.5°	6247.2	4851.7	971.9	70.4	57.3	34.1	22.6	19.1	15.1	12.3	12.9
70°	5956.2	4299.1	525.3	67.6	51.9	31.4	20.5	17.1	13.7	10.3	10.3
72.5°	5487.6	3622.8	197.4	62.9	47.8	27.3	18.4	17.1	12.9	8.2	7.5
75°	4719.8	2735.6	93.6	56.7	40.3	24.6	18.4	17.8	12.9	5.5	4.8
77.5°	3786.2	1525.9	71.8	47.8	32.8	20.5	18.4	17.1	7.5	2.8	2.0
80°	2034.8	573.1	53.9	34.9	24.0	15.7	17.1	12.3	3.4	0.6	0.0
82.5°	807.3	141.4	37.5	15.7	10.3	6.8	9.5	4.8	0.6	0.0	0.0
85°	203.5	55.3	23.2	8.2	5.5	3.4	1.4	0.0	0.0	0.0	0.0
87.5°	23.2	15.7	6.8	4.1	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)