

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: P286979

Luminaire Tested: **USSL-C027-D-U-T4-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)
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-T4-AP-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14179.3 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

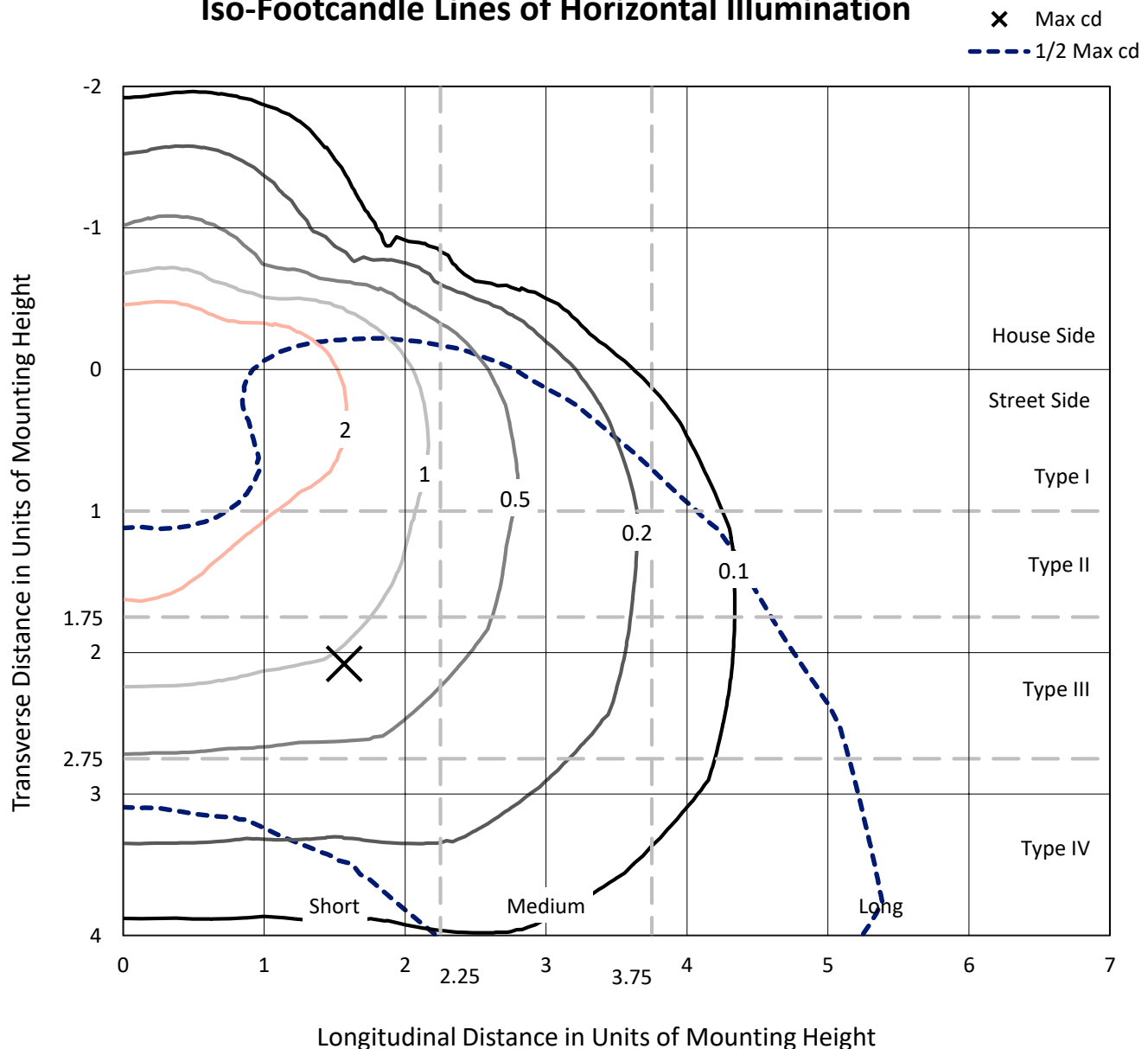
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-AP-7050

Iso-Footcandle Lines of Horizontal Illumination

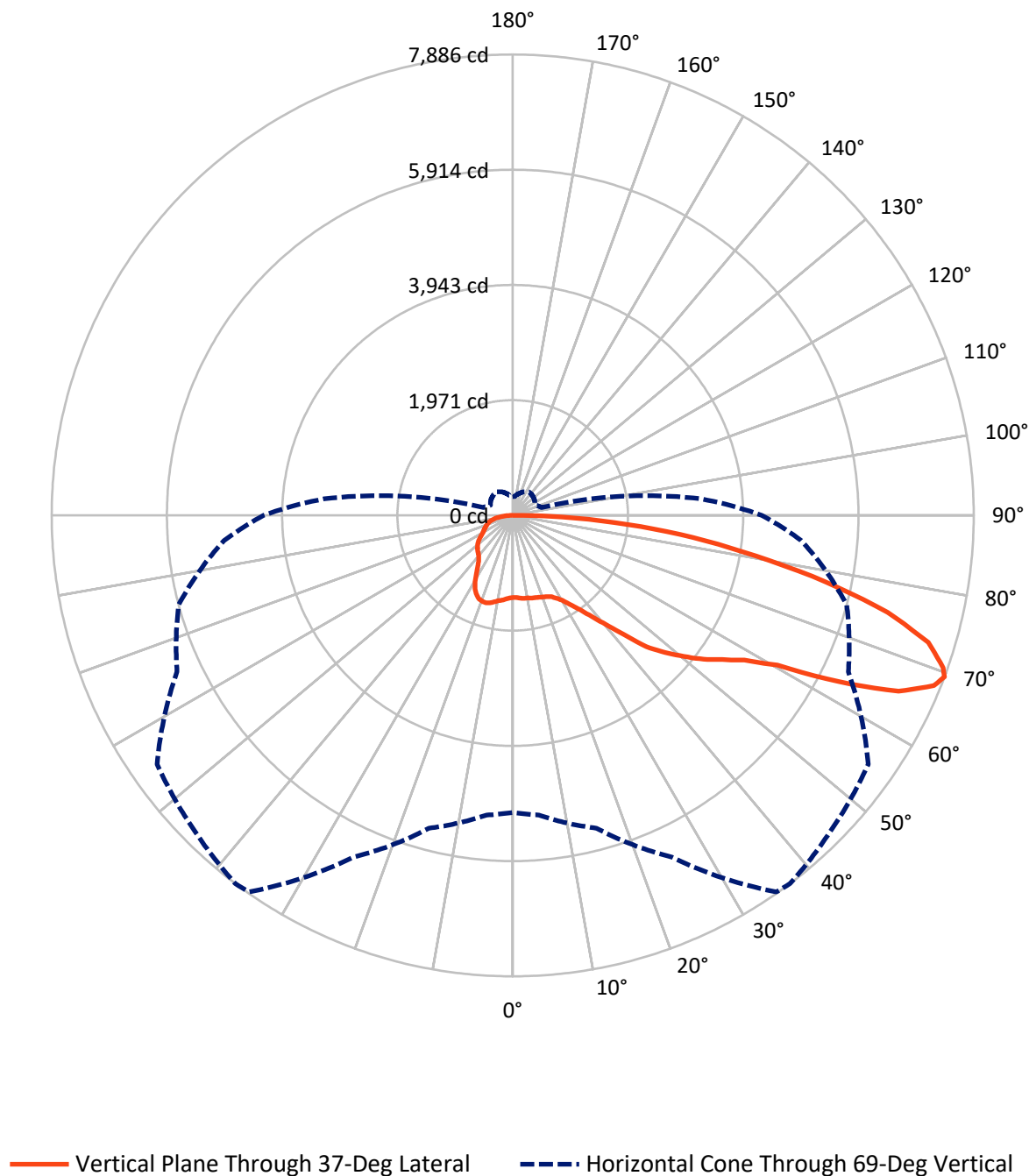


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-AP-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P286979

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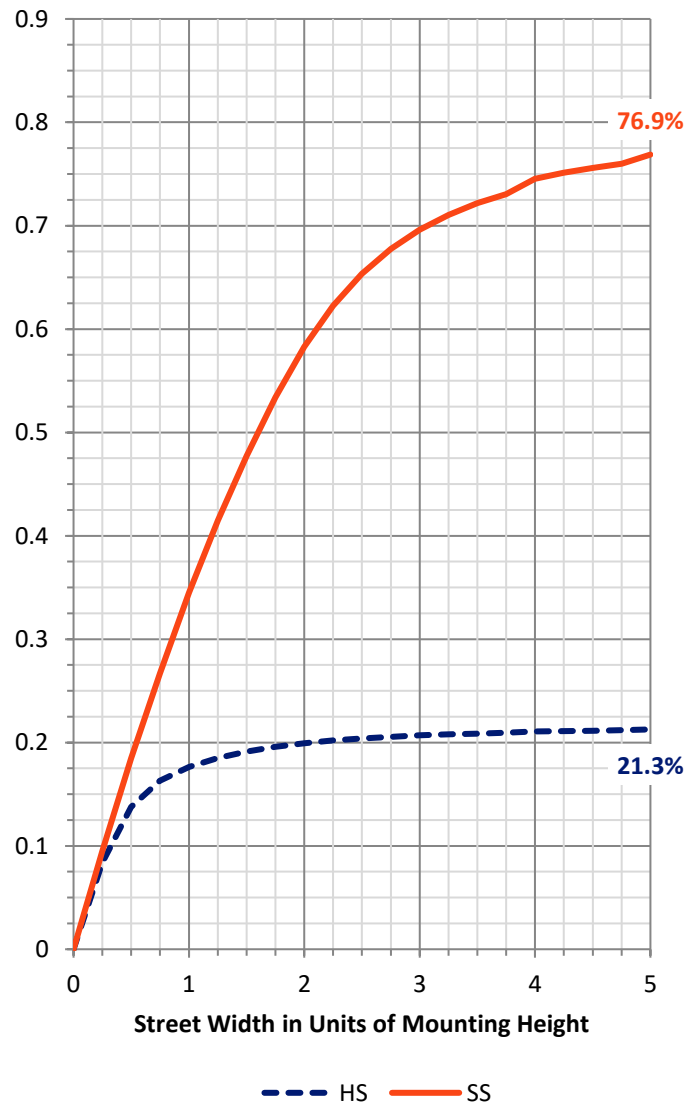
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3057.5	0.0	3057.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11121.8	0.0	11121.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	14179.3	0.0	14179.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.0
10°-20°	428.4	3.0
20°-30°	732.0	5.2
30°-40°	1160.5	8.2
40°-50°	1971.9	13.9
50°-60°	2795.8	19.7
60°-70°	3557.8	25.1
70°-80°	2730.4	19.3
80°-90°	665.5	4.7
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°	14179.3	100.0
0°-180°	14179.3	100.0

Coefficient of Utilization



REPORT NUMBER: P286979

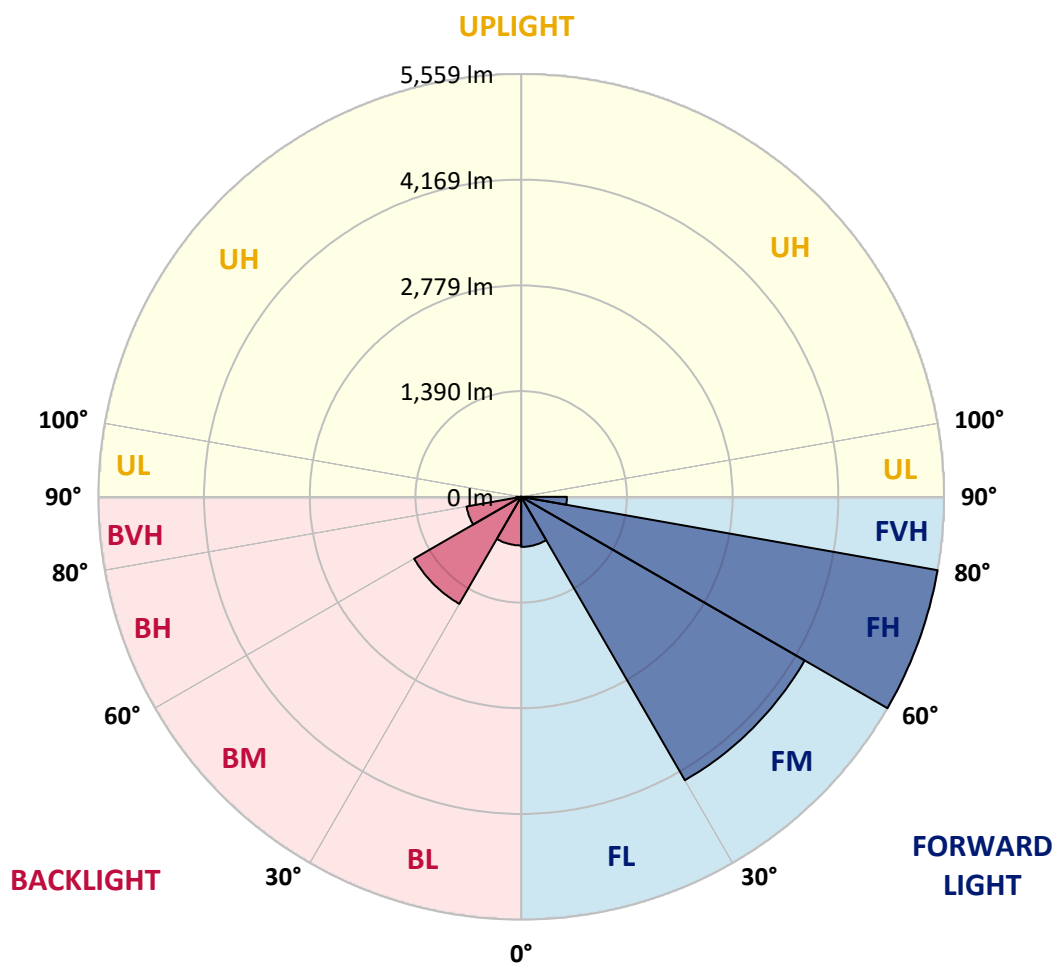
CATALOG NUMBER: USSL-C027-D-U-T4-AP-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.2	4.6			
FM	(30°-60°)	4303.2	30.3			
FH	(60°-80°)	5558.9	39.2			G3/7500
FVH	(80°-90°)	601.6	4.2			G4/750
BL	(0°-30°)	639.4	4.5	B2/1000		
BM	(30°-60°)	1625.0	11.5	B2/2500		
BH	(60°-80°)	729.3	5.1	B2/1000		G2/1000
BVH	(80°-90°)	63.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-AP-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1431.3	1423.6	1423.6	1407.5	1407.5	1406.2	1409.7	1401.3	1399.9	1398.5	1393.7
5°	1449.3	1446.6	1436.8	1425.0	1430.5	1422.9	1422.9	1411.8	1412.4	1411.0	1403.4
7.5°	1445.2	1450.0	1449.3	1435.4	1431.3	1433.3	1434.0	1434.7	1427.8	1427.0	1421.5
10°	1458.3	1453.5	1455.6	1434.0	1439.6	1434.7	1442.4	1441.7	1441.7	1441.7	1435.4
12.5°	1430.5	1436.2	1438.2	1441.7	1452.1	1452.1	1464.7	1469.4	1479.9	1486.9	1478.6
15°	1422.9	1418.0	1438.2	1436.2	1460.4	1458.3	1478.6	1505.7	1514.7	1533.5	1538.3
17.5°	1418.7	1428.4	1443.8	1443.1	1466.7	1471.6	1499.4	1530.0	1555.7	1587.0	1598.1
20°	1430.5	1430.5	1446.6	1453.5	1489.7	1489.7	1518.8	1557.1	1597.5	1643.4	1667.0
22.5°	1468.1	1469.4	1484.1	1476.4	1499.4	1507.7	1532.8	1575.9	1638.5	1688.5	1737.3
25°	1489.7	1498.0	1515.4	1513.3	1535.6	1541.8	1571.7	1627.4	1694.8	1760.9	1842.2
27.5°	1539.7	1540.5	1554.3	1550.2	1603.0	1605.9	1632.9	1675.4	1773.4	1849.2	1963.3
30°	1612.1	1616.2	1625.3	1637.8	1692.8	1689.9	1708.0	1764.4	1859.0	1961.1	2116.3
32.5°	1769.2	1760.2	1749.0	1751.2	1805.4	1820.7	1855.5	1922.2	2039.0	2162.8	2330.5
35°	2037.0	2031.4	1991.1	1943.8	1962.6	1980.6	2037.7	2165.7	2345.8	2636.5	2785.9
37.5°	2386.8	2403.5	2327.6	2226.8	2185.8	2190.0	2242.9	2416.0	2710.2	3259.6	3354.2
40°	2829.8	2804.8	2711.5	2576.6	2473.1	2451.4	2468.2	2690.0	3117.7	3809.0	3827.1
42.5°	3153.2	3156.7	3050.9	2952.9	2817.3	2776.9	2749.2	2959.1	3539.2	4232.5	4168.6
45°	3528.1	3555.1	3439.7	3338.9	3243.6	3201.9	3160.2	3288.8	3975.3	4569.1	4459.2
47.5°	3845.8	3850.7	3701.9	3626.8	3521.1	3502.3	3462.0	3585.7	4329.9	4833.4	4683.2
50°	4140.7	4191.5	3998.2	3891.1	3802.7	3790.9	3805.6	3922.4	4675.5	5062.2	4864.0
52.5°	4647.0	4569.1	4343.2	4141.5	4086.4	4087.2	4084.4	4275.0	5033.0	5254.9	5012.8
55°	5113.7	4962.0	4712.4	4485.7	4351.4	4352.8	4376.5	4609.5	5329.3	5440.6	5114.3
57.5°	5405.8	5489.2	5260.4	4920.4	4666.5	4670.7	4670.0	4922.4	5583.8	5604.0	5193.0
60°	5832.1	5931.5	5871.7	5616.5	5275.8	5200.6	5010.8	5275.8	5845.2	5760.5	5276.4
62.5°	6143.6	6217.4	6383.6	6241.0	6260.5	6268.1	5671.4	5678.4	6032.4	5889.8	5294.5
65°	6144.3	6143.0	6528.9	6706.9	7170.9	7251.5	7000.4	6234.8	6209.7	5910.6	5225.0
67.5°	5557.4	5593.5	5999.7	6661.0	7710.5	7771.0	7610.4	7114.5	6301.5	5934.3	5112.3
69°	5083.1	5147.1	5540.0	6449.6	7863.5	7885.8	7668.8	7424.7	6334.9	5914.1	4955.1
70°	4769.4	4772.2	5172.8	6188.9	7786.3	7811.4	7664.6	7477.5	6306.4	5857.1	4831.3
72.5°	3763.8	3803.5	4158.1	5257.6	7407.3	7431.6	7380.8	7338.4	6265.4	5604.6	4155.3
75°	2751.9	2778.3	3102.4	4118.5	6477.5	6624.2	6846.7	7084.6	5838.4	4819.5	3128.2
77.5°	1929.9	1964.6	2298.5	3126.1	5275.8	5477.4	5978.8	6201.4	4946.8	3774.9	1744.2
80°	1288.6	1331.8	1635.0	2328.4	4016.3	4222.1	4802.1	4898.1	3783.9	2264.4	345.6
82.5°	819.9	831.1	1072.4	1645.5	2987.0	3105.2	3315.3	3114.2	2005.6	516.1	102.3
85°	478.4	498.7	648.9	1032.8	1841.6	1976.5	2068.3	1545.3	484.7	69.5	54.9
87.5°	180.1	188.5	262.9	446.4	861.7	848.4	823.4	521.6	86.9	32.0	25.0
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: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-AP-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1393.0	1405.5	1399.3	1396.5	1395.0	1402.0	1415.3	1411.8	1409.7	1432.7	1434.7
5°	1403.4	1420.8	1420.2	1422.9	1418.7	1427.0	1433.3	1435.4	1437.5	1461.8	1465.3
7.5°	1422.9	1430.5	1433.3	1444.4	1438.2	1451.4	1462.6	1451.4	1461.8	1479.2	1482.7
10°	1440.3	1452.1	1452.8	1470.2	1463.9	1476.4	1479.2	1479.2	1487.6	1507.7	1504.3
12.5°	1482.1	1482.7	1507.1	1508.4	1516.8	1516.1	1510.6	1494.6	1486.9	1514.0	1516.1
15°	1542.5	1550.2	1581.5	1579.4	1569.0	1563.4	1539.7	1500.1	1477.2	1472.9	1472.9
17.5°	1615.5	1617.6	1658.0	1649.6	1632.9	1596.7	1557.8	1487.6	1422.9	1402.0	1389.5
20°	1675.4	1692.8	1742.2	1713.6	1684.4	1626.0	1540.5	1443.8	1343.6	1292.9	1279.6
22.5°	1756.7	1790.8	1819.3	1777.6	1716.4	1631.5	1518.8	1379.8	1248.4	1169.1	1155.2
25°	1872.2	1891.6	1890.2	1817.9	1721.3	1614.1	1456.9	1289.4	1128.7	1041.8	1016.0
27.5°	1991.1	2005.0	1946.6	1848.5	1704.5	1564.7	1376.3	1171.2	1007.8	929.9	910.3
30°	2126.1	2112.1	1990.4	1835.3	1660.8	1477.8	1263.0	1041.1	902.7	833.8	823.4
32.5°	2333.9	2262.4	2029.3	1804.7	1581.5	1358.3	1124.6	947.9	834.6	753.9	739.9
35°	2694.9	2543.2	2098.9	1777.6	1485.4	1224.0	1005.6	883.2	774.0	678.8	660.6
37.5°	3161.6	2920.2	2229.6	1731.0	1372.1	1093.3	929.9	828.9	728.2	622.5	602.2
40°	3619.1	3314.5	2405.5	1684.4	1265.0	1004.3	886.7	807.4	710.0	601.6	580.0
42.5°	3953.0	3630.3	2597.5	1639.9	1161.4	934.7	865.2	801.2	710.8	605.1	584.9
45°	4204.7	3880.6	2792.2	1578.7	1040.4	881.1	845.0	794.9	710.0	608.5	583.5
47.5°	4426.6	4044.8	2926.5	1498.0	925.6	839.4	820.7	771.3	692.6	594.0	572.3
50°	4583.0	4200.6	3014.1	1427.8	837.3	802.6	786.6	733.0	651.6	565.5	540.3
52.5°	4693.7	4301.4	3024.5	1410.4	770.5	770.5	745.5	689.9	611.4	524.3	500.1
55°	4809.7	4359.2	2979.4	1345.8	700.3	717.7	701.8	660.6	584.9	495.8	480.6
57.5°	4804.8	4329.9	2889.0	1081.4	621.7	639.9	646.1	635.0	575.1	502.8	488.2
60°	4836.9	4300.0	2738.7	751.8	547.3	575.1	601.6	601.6	544.6	459.0	443.7
62.5°	4820.2	4231.1	2418.1	530.0	488.2	532.7	566.1	540.3	484.7	412.4	402.7
65°	4711.7	4035.0	1813.7	449.9	467.3	508.3	539.0	499.3	442.3	372.8	365.8
67.5°	4513.5	3674.0	964.6	420.8	458.3	491.7	508.3	465.3	408.9	338.6	331.0
69°	4261.0	3237.4	517.4	416.5	456.9	477.8	489.6	445.1	383.9	322.0	322.0
70°	3999.5	2891.7	334.5	418.7	451.3	469.4	476.4	431.2	369.3	304.6	301.9
72.5°	3133.7	1859.6	279.6	397.8	434.7	443.0	442.3	394.3	324.1	231.6	235.7
75°	1902.1	567.5	267.1	363.8	406.8	424.3	413.1	331.0	252.5	194.1	194.1
77.5°	517.4	198.9	253.1	331.7	371.4	376.3	372.8	308.1	225.3	160.7	162.1
80°	154.4	154.4	235.7	276.7	315.0	337.3	319.9	270.5	180.8	84.9	87.7
82.5°	89.0	100.2	197.5	194.7	254.6	253.8	253.8	193.3	122.4	55.6	45.2
85°	47.3	70.9	107.0	111.9	119.7	134.9	182.9	166.9	92.5	25.0	5.5
87.5°	27.1	40.4	29.3	20.9	43.8	80.0	118.2	113.4	77.2	0.7	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)