

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: P286975

Luminaire Tested: **USSL-C027-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286975
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-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13927.1 lumens
Efficiency: N/A
Efficacy: 145.1 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



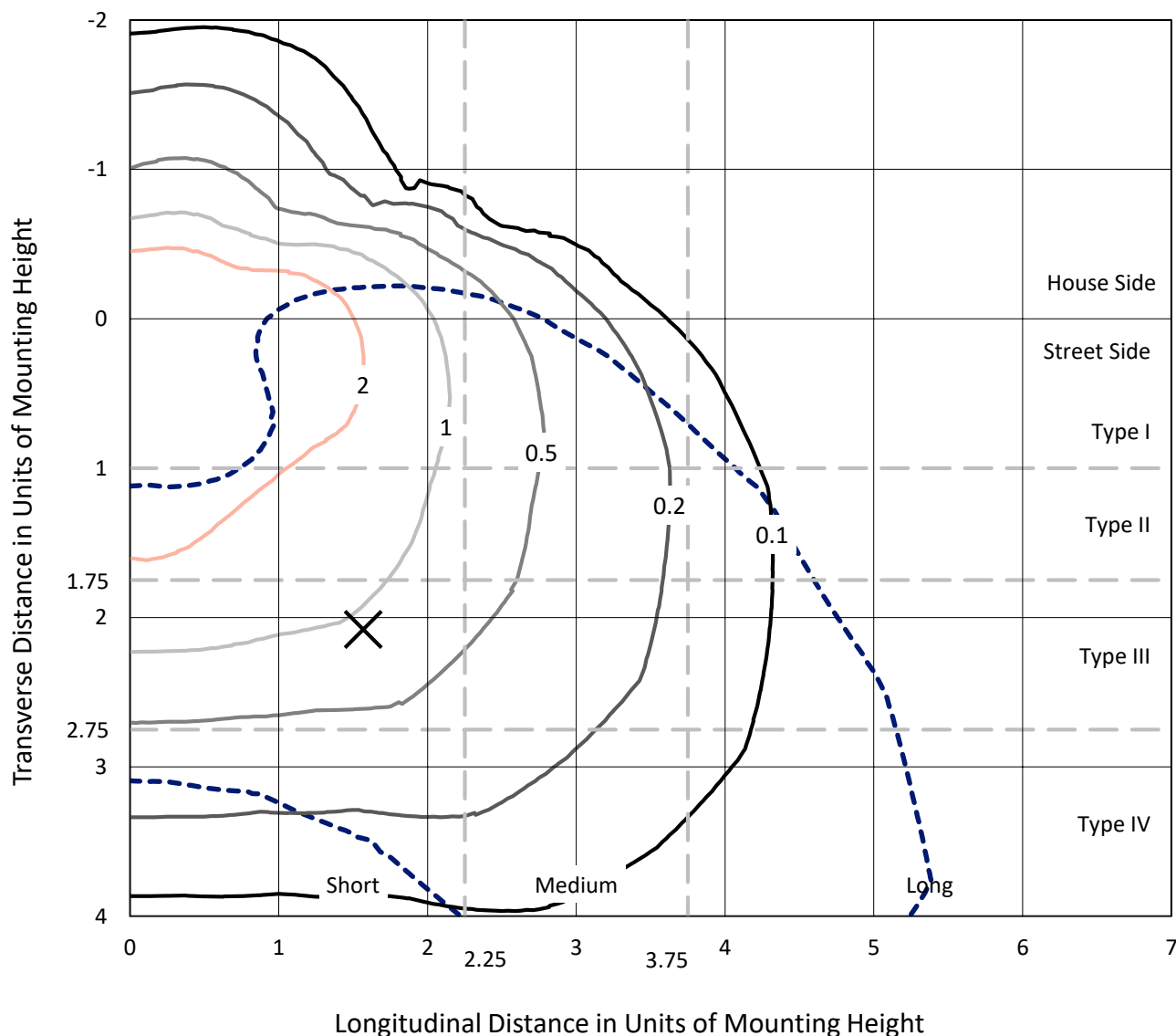
REPORT NUMBER: P286975

CATALOG NUMBER: USSL-C027-D-U-T4-BZ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

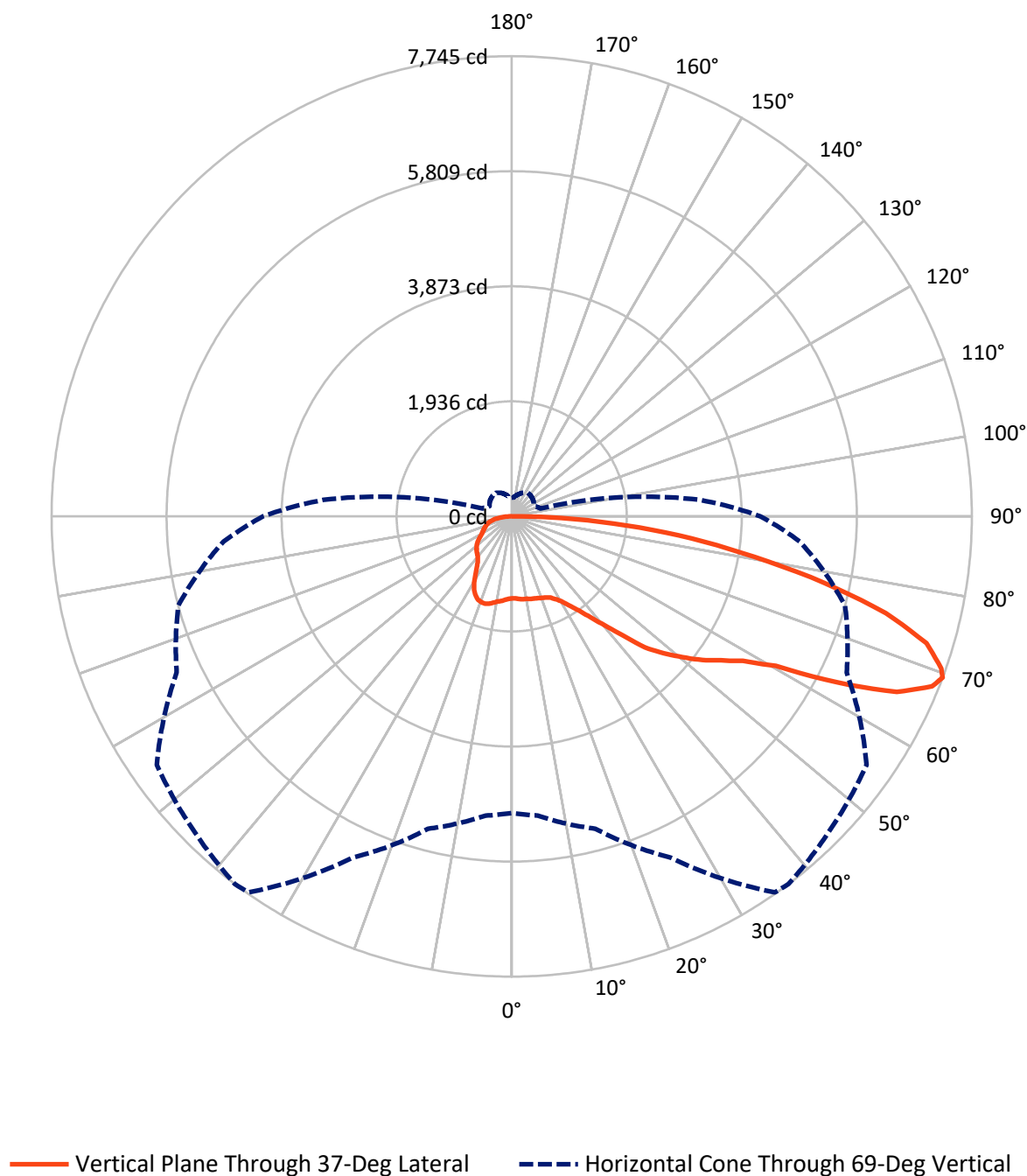


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P286975

CATALOG NUMBER: USSL-C027-D-U-T4-BZ

Luminous Intensity Polar Plot



REPORT NUMBER: P286975

CATALOG NUMBER: USSL-C027-D-U-T4-BZ

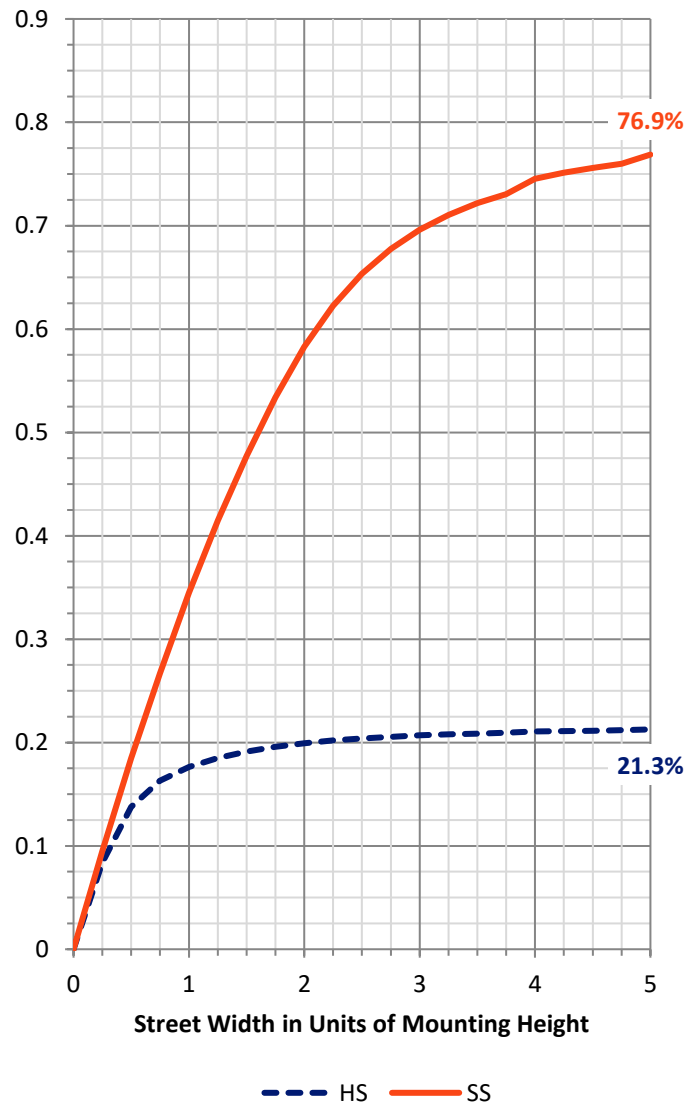
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3003.1	0.0	3003.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10924.0	0.0	10924.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	13927.1	0.0	13927.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	1.0
10°-20°	420.8	3.0
20°-30°	719.0	5.2
30°-40°	1139.8	8.2
40°-50°	1936.8	13.9
50°-60°	2746.0	19.7
60°-70°	3494.5	25.1
70°-80°	2681.8	19.3
80°-90°	653.7	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°	13927.1	100.0
0°-180°	13927.1	100.0

Coefficient of Utilization



REPORT NUMBER: P286975

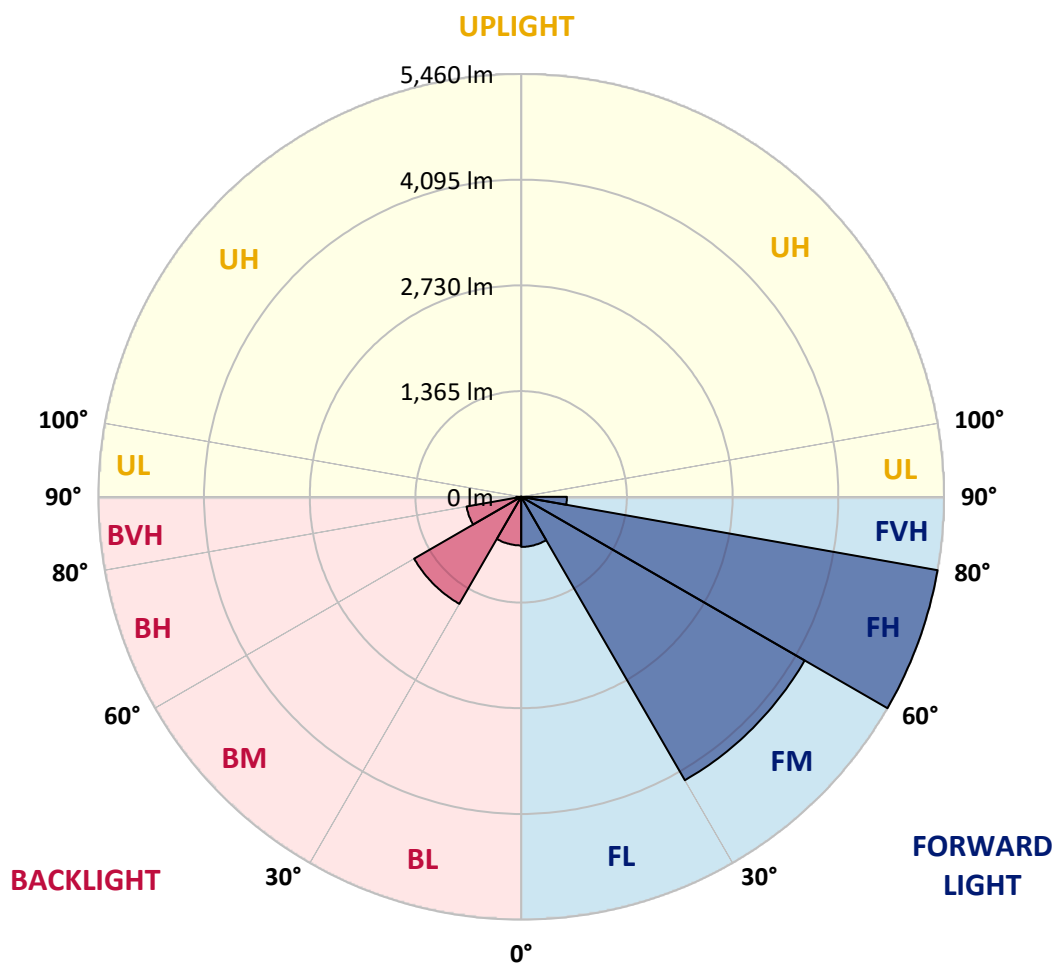
CATALOG NUMBER: USSL-C027-D-U-T4-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.5	4.6			
FM	(30°-60°)	4226.6	30.3			
FH	(60°-80°)	5460.0	39.2			G3/7500
FVH	(80°-90°)	590.9	4.2			G4/750
BL	(0°-30°)	628.0	4.5	B2/1000		
BM	(30°-60°)	1596.0	11.5	B2/2500		
BH	(60°-80°)	716.3	5.1	B2/1000		G2/1000
BVH	(80°-90°)	62.8	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: P286975

CATALOG NUMBER: USSL-C027-D-U-T4-BZ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1
2.5°	1405.7	1398.2	1398.2	1382.5	1382.5	1381.2	1384.7	1376.4	1375.0	1373.6	1368.9
5°	1423.6	1420.8	1411.3	1399.6	1405.1	1397.6	1397.6	1386.7	1387.3	1385.9	1378.5
7.5°	1419.4	1424.2	1423.6	1409.9	1405.7	1407.9	1408.5	1409.2	1402.4	1401.7	1396.2
10°	1432.5	1427.7	1429.7	1408.5	1414.0	1409.2	1416.7	1416.0	1416.0	1416.0	1409.9
12.5°	1405.1	1410.5	1412.6	1416.0	1426.3	1426.3	1438.6	1443.4	1453.5	1460.4	1452.3
15°	1397.6	1392.8	1412.6	1410.5	1434.5	1432.5	1452.3	1478.9	1487.8	1506.2	1511.0
17.5°	1393.5	1403.1	1418.0	1417.4	1440.6	1445.4	1472.7	1502.8	1528.1	1558.8	1569.7
20°	1405.1	1405.1	1420.8	1427.7	1463.2	1463.2	1491.8	1529.4	1569.1	1614.1	1637.3
22.5°	1442.0	1443.4	1457.7	1450.2	1472.7	1480.9	1505.5	1547.9	1609.4	1658.5	1706.3
25°	1463.2	1471.4	1488.4	1486.4	1508.2	1514.4	1543.7	1598.4	1664.7	1729.5	1809.5
27.5°	1512.4	1513.0	1526.7	1522.5	1574.5	1577.2	1603.8	1645.5	1741.8	1816.4	1928.4
30°	1583.4	1587.5	1596.3	1608.6	1662.7	1659.9	1677.6	1732.9	1825.9	1926.3	2078.6
32.5°	1737.8	1728.9	1718.0	1720.0	1773.3	1788.3	1822.5	1888.0	2002.8	2124.4	2289.0
35°	2000.8	1995.3	1955.6	1909.2	1927.6	1945.4	2001.4	2127.1	2304.0	2589.5	2736.4
37.5°	2344.3	2360.7	2286.3	2187.2	2146.9	2151.1	2202.9	2373.0	2661.9	3201.6	3294.5
40°	2779.5	2754.9	2663.3	2530.8	2429.1	2407.9	2424.3	2642.1	3062.3	3741.2	3759.0
42.5°	3097.1	3100.5	2996.7	2900.4	2767.2	2727.5	2700.2	2906.6	3476.2	4157.2	4094.4
45°	3465.2	3491.9	3378.5	3279.4	3185.8	3144.9	3103.9	3230.3	3904.5	4487.8	4379.9
47.5°	3777.5	3782.3	3636.1	3562.3	3458.5	3440.0	3400.4	3521.9	4252.8	4747.4	4599.9
50°	4067.0	4117.0	3927.0	3821.9	3735.1	3723.4	3737.8	3852.6	4592.3	4972.2	4777.5
52.5°	4564.4	4487.8	4265.9	4067.8	4013.8	4014.5	4011.7	4198.9	4943.5	5161.4	4923.7
55°	5022.7	4873.7	4628.6	4405.9	4274.0	4275.4	4298.6	4527.5	5234.4	5343.7	5023.4
57.5°	5309.6	5391.6	5166.8	4832.8	4583.4	4587.6	4586.9	4834.8	5484.5	5504.3	5100.6
60°	5728.3	5826.1	5767.2	5516.6	5181.9	5108.1	4921.6	5181.9	5741.3	5658.0	5182.6
62.5°	6034.3	6106.7	6270.1	6129.9	6149.1	6156.6	5570.5	5577.4	5925.1	5785.0	5200.3
65°	6035.1	6033.7	6412.8	6587.6	7043.2	7122.5	6875.9	6123.8	6099.2	5805.5	5132.0
67.5°	5458.5	5494.0	5892.9	6542.6	7573.3	7632.8	7474.9	6987.9	6189.4	5828.7	5021.4
69°	4992.7	5055.5	5441.4	6334.9	7723.6	7745.4	7532.4	7292.5	6222.1	5808.9	4867.0
70°	4684.5	4687.3	5080.7	6078.7	7647.8	7672.4	7528.3	7344.5	6194.2	5752.9	4745.4
72.5°	3696.8	3735.7	4084.1	5164.2	7275.5	7299.4	7249.5	7207.8	6153.9	5504.9	4081.5
75°	2703.0	2728.9	3047.2	4045.2	6362.3	6506.4	6725.0	6958.6	5734.5	4733.7	3072.5
77.5°	1895.5	1929.7	2257.6	3070.4	5181.9	5379.9	5872.5	6091.0	4858.8	3707.7	1713.2
80°	1265.7	1308.1	1606.0	2286.9	3944.8	4147.0	4716.7	4811.0	3716.6	2224.1	339.5
82.5°	805.3	816.3	1053.3	1616.1	2933.8	3050.0	3256.2	3058.9	1970.0	506.8	100.4
85°	470.0	489.8	637.3	1014.3	1808.8	1941.3	2031.5	1517.8	476.1	68.3	53.9
87.5°	176.9	185.2	258.2	438.6	846.3	833.4	808.8	512.4	85.4	31.4	24.6
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: P286975

CATALOG NUMBER: USSL-C027-D-U-T4-BZ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1
2.5°	1368.2	1380.5	1374.4	1371.6	1370.2	1377.1	1390.1	1386.7	1384.7	1407.1	1409.2
5°	1378.5	1395.6	1394.8	1397.6	1393.5	1401.7	1407.9	1409.9	1411.9	1435.8	1439.2
7.5°	1397.6	1405.1	1407.9	1418.8	1412.6	1425.6	1436.5	1425.6	1435.8	1452.9	1456.3
10°	1414.6	1426.3	1426.9	1444.0	1437.9	1450.2	1452.9	1452.9	1461.1	1480.9	1477.5
12.5°	1455.7	1456.3	1480.3	1481.6	1489.8	1489.2	1483.6	1468.0	1460.4	1487.0	1489.2
15°	1515.1	1522.5	1553.3	1551.3	1541.0	1535.6	1512.4	1473.4	1450.9	1446.8	1446.8
17.5°	1586.8	1588.9	1628.4	1620.3	1603.8	1568.3	1530.1	1461.1	1397.6	1377.1	1364.8
20°	1645.5	1662.7	1711.1	1683.1	1654.4	1597.1	1513.0	1418.0	1319.7	1269.9	1256.8
22.5°	1725.5	1758.9	1787.0	1746.0	1685.9	1602.5	1491.8	1355.2	1226.1	1148.3	1134.6
25°	1838.8	1858.0	1856.6	1785.6	1690.6	1585.4	1431.1	1266.5	1108.7	1023.2	998.0
27.5°	1955.6	1969.3	1912.0	1815.6	1674.2	1537.0	1351.8	1150.3	989.7	913.3	894.1
30°	2088.2	2074.5	1955.0	1802.7	1631.2	1451.5	1240.5	1022.6	886.6	819.0	808.8
32.5°	2292.5	2222.1	1993.2	1772.6	1553.3	1334.1	1104.5	931.0	819.7	740.4	726.8
35°	2647.0	2498.1	2061.5	1746.0	1459.1	1202.2	987.7	867.5	760.3	666.7	649.0
37.5°	3105.3	2868.3	2190.0	1700.2	1347.8	1073.8	913.3	814.2	715.2	611.4	591.5
40°	3554.8	3255.6	2362.7	1654.4	1242.5	986.3	870.9	793.0	697.4	590.9	569.7
42.5°	3882.6	3565.7	2551.3	1610.7	1140.8	918.1	849.7	786.9	698.2	594.3	574.5
45°	4129.9	3811.6	2742.6	1550.6	1021.8	865.5	829.9	780.7	697.4	597.7	573.1
47.5°	4347.8	3972.8	2874.4	1471.4	909.2	824.5	806.1	757.5	680.3	583.4	562.2
50°	4501.5	4125.8	2960.5	1402.4	822.5	788.2	772.6	720.0	640.1	555.4	530.8
52.5°	4610.1	4224.9	2970.7	1385.3	756.9	756.9	732.3	677.6	600.4	515.0	491.2
55°	4724.2	4281.6	2926.3	1321.8	687.9	704.9	689.3	649.0	574.5	487.0	472.0
57.5°	4719.4	4252.8	2837.6	1062.2	610.7	628.4	634.6	623.6	564.9	493.9	479.5
60°	4750.8	4223.5	2690.0	738.4	537.6	564.9	590.9	590.9	534.8	450.9	435.8
62.5°	4734.5	4155.9	2375.0	520.5	479.5	523.3	556.0	530.8	476.1	405.1	395.6
65°	4627.8	3963.3	1781.5	442.0	459.0	499.3	529.4	490.4	434.5	366.1	359.3
67.5°	4433.2	3608.7	947.4	413.3	450.1	482.9	499.3	457.0	401.7	332.7	325.2
69°	4185.2	3179.7	508.2	409.1	448.8	469.3	480.9	437.2	377.1	316.3	316.3
70°	3928.4	2840.2	328.6	411.2	443.4	461.1	467.9	423.5	362.7	299.2	296.5
72.5°	3077.9	1826.5	274.6	390.7	426.9	435.1	434.5	387.3	318.3	227.5	231.6
75°	1868.2	557.4	262.3	357.3	399.6	416.6	405.7	325.2	247.9	190.6	190.6
77.5°	508.2	195.3	248.7	325.8	364.8	369.6	366.1	302.6	221.3	157.8	159.2
80°	151.7	151.7	231.6	271.9	309.4	331.3	314.3	265.7	177.6	83.3	86.1
82.5°	87.4	98.4	194.0	191.3	250.0	249.3	249.3	189.9	120.2	54.7	44.4
85°	46.4	69.6	105.1	110.0	117.5	132.5	179.7	164.0	90.8	24.6	5.5
87.5°	26.6	39.6	28.7	20.5	43.0	78.5	116.2	111.3	75.8	0.6	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)