

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: P286963

Luminaire Tested: **USSL-C027-D-U-T3-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
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-BZ-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13422 lumens
Efficiency: N/A
Efficacy: 139.8 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

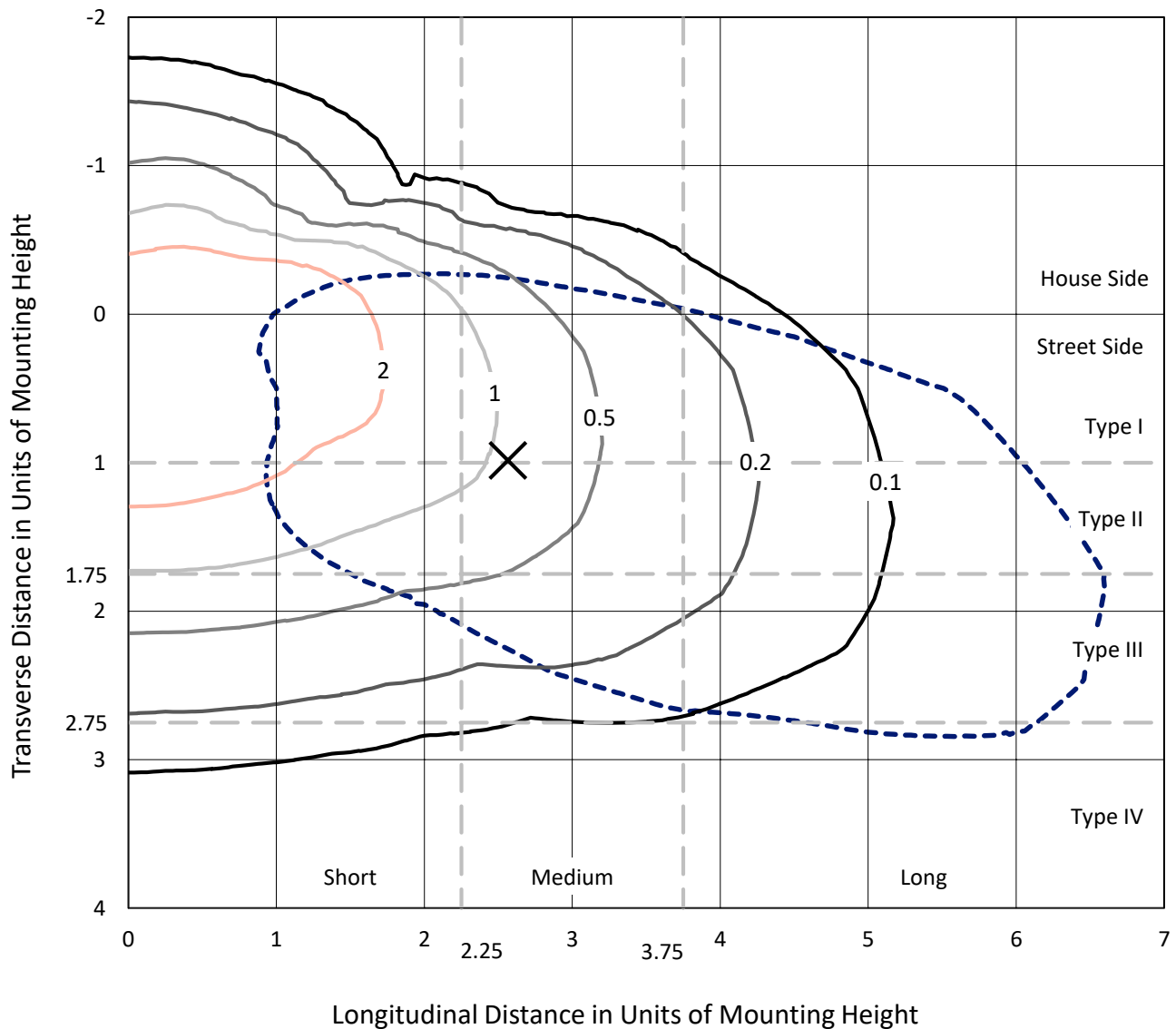


REPORT NUMBER: P286963

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

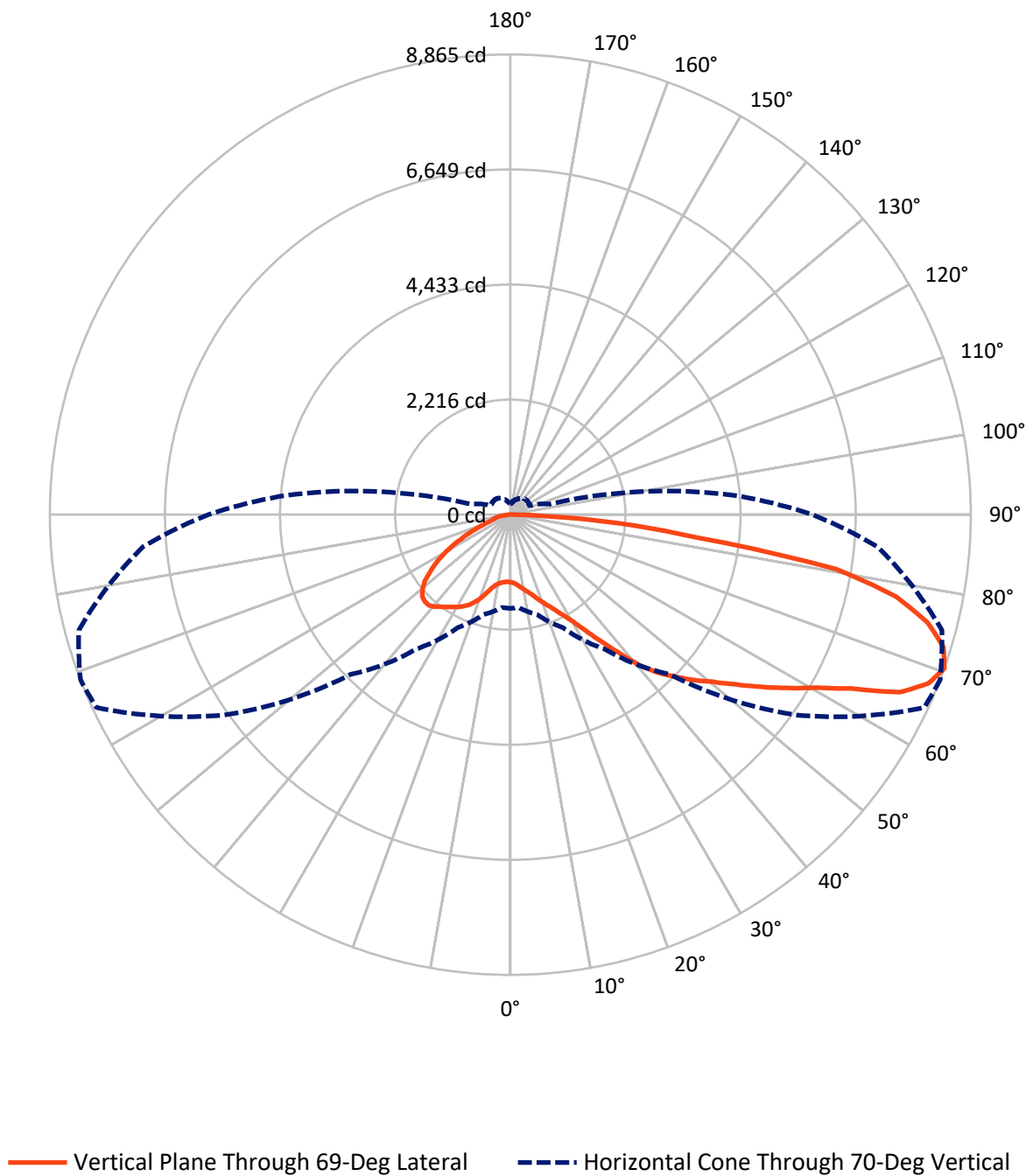


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Medium - Non-Cutoff

REPORT NUMBER: P286963

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P286963

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7050

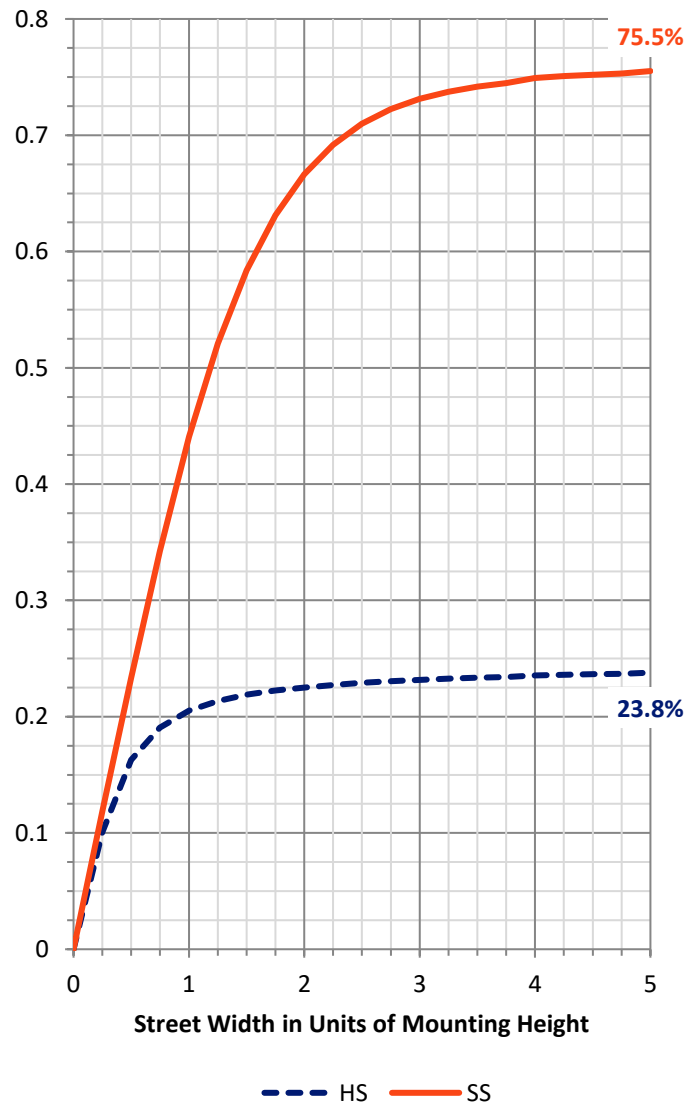
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3255.5	0.0	3255.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10166.5	0.0	10166.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	13422.0	0.0	13422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.0
10°-20°	424.5	3.2
20°-30°	798.2	5.9
30°-40°	1366.6	10.2
40°-50°	2087.2	15.6
50°-60°	2699.2	20.1
60°-70°	3070.3	22.9
70°-80°	2339.5	17.4
80°-90°	507.5	3.8
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°	13422.0	100.0
0°-180°	13422.0	100.0

Coefficient of Utilization



REPORT NUMBER: P286963

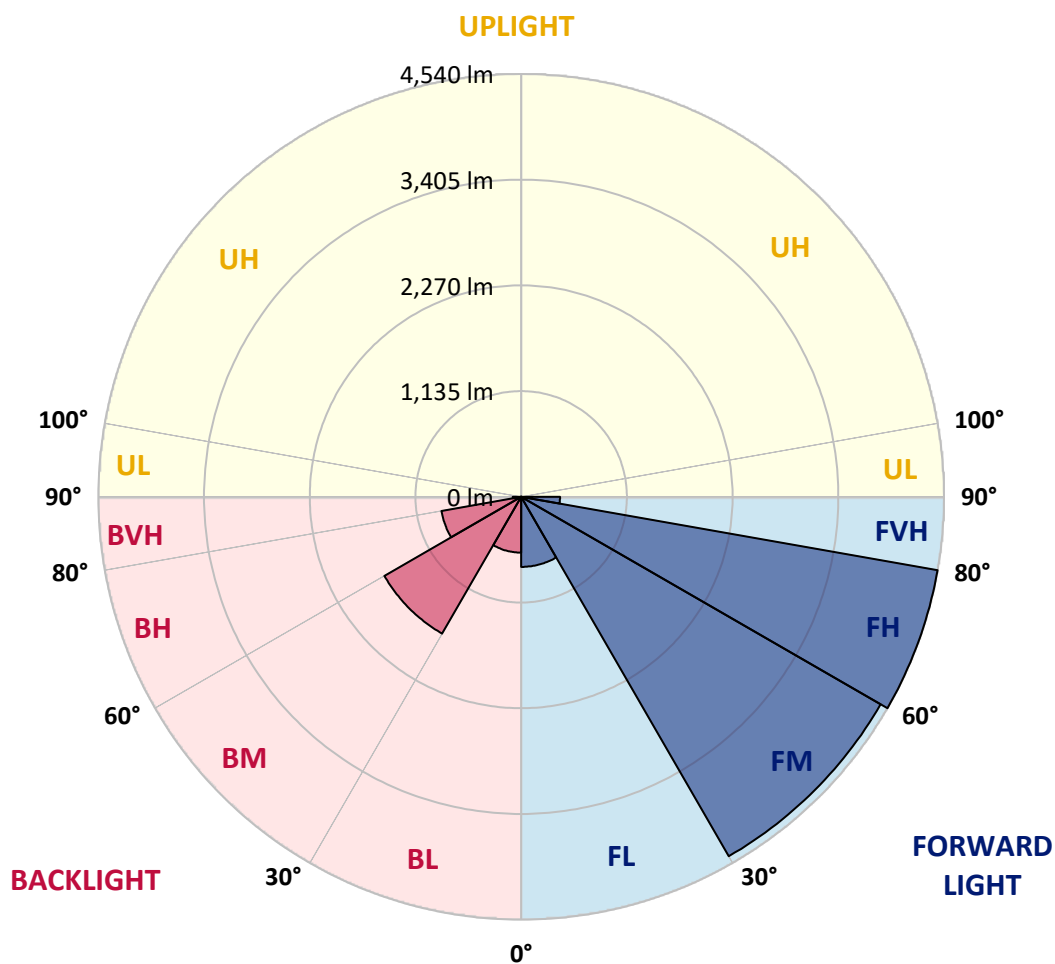
CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.4	5.6			
FM	(30°-60°)	4456.5	33.2			
FH	(60°-80°)	4540.5	33.8			G2/5000
FVH	(80°-90°)	417.2	3.1			G3/500
BL	(0°-30°)	599.4	4.5	B2/1000		
BM	(30°-60°)	1696.5	12.6	B2/2500		
BH	(60°-80°)	869.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	90.4	0.7			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: P286963

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7
2.5°	1383.1	1373.9	1374.6	1351.0	1351.6	1342.5	1337.2	1329.3	1316.2	1320.8	1299.1
5°	1450.1	1437.6	1441.5	1413.3	1412.0	1399.5	1386.4	1362.8	1356.9	1354.3	1335.2
7.5°	1494.0	1491.4	1489.4	1475.0	1473.7	1459.2	1446.8	1421.2	1411.3	1399.5	1375.3
10°	1536.7	1538.6	1540.6	1515.7	1531.4	1514.4	1500.6	1479.6	1466.5	1462.5	1425.1
12.5°	1558.3	1560.3	1570.8	1563.6	1572.8	1581.9	1568.2	1546.5	1533.4	1533.4	1490.1
15°	1577.3	1582.6	1600.3	1606.2	1622.6	1630.5	1641.0	1627.2	1607.5	1604.2	1568.2
17.5°	1609.5	1606.9	1622.6	1648.9	1667.9	1683.0	1712.5	1708.6	1707.3	1698.7	1672.5
20°	1652.8	1648.2	1664.0	1675.1	1704.6	1749.9	1789.9	1810.3	1809.0	1804.4	1781.4
22.5°	1700.0	1695.5	1696.1	1704.6	1744.7	1812.9	1874.6	1913.3	1913.9	1916.6	1937.6
25°	1780.7	1761.7	1755.8	1763.0	1810.9	1894.3	1973.7	2037.3	2049.8	2064.9	2131.8
27.5°	1976.3	1985.5	1905.4	1853.6	1893.6	1996.0	2089.1	2183.0	2202.6	2247.9	2381.8
30°	2280.1	2265.0	2224.3	2111.4	2020.2	2111.4	2242.7	2358.8	2396.2	2511.7	2632.4
32.5°	2509.7	2510.4	2490.7	2394.9	2268.9	2246.6	2394.9	2587.1	2661.3	2875.8	2984.1
35°	2742.6	2732.8	2749.9	2659.3	2547.8	2468.4	2560.9	2814.8	2984.8	3302.3	3360.7
37.5°	2961.1	2964.4	2968.4	2881.1	2827.9	2800.4	2789.9	3109.4	3353.5	3698.6	3735.4
40°	3123.2	3140.9	3153.4	3105.5	3086.5	3087.8	3042.5	3459.1	3797.0	4136.9	4094.9
42.5°	3252.5	3272.8	3363.3	3299.0	3326.6	3381.7	3373.8	3736.0	4156.6	4472.9	4424.3
45°	3360.7	3361.4	3424.4	3450.0	3548.4	3652.7	3661.2	4031.3	4454.5	4776.0	4682.8
47.5°	3435.5	3422.4	3471.6	3575.9	3757.0	3879.7	3961.1	4365.3	4762.2	5047.6	4947.3
50°	3458.5	3476.9	3558.9	3691.4	3932.9	4126.4	4297.7	4788.5	5062.1	5313.4	5161.8
52.5°	3501.1	3509.0	3623.8	3797.0	4111.3	4369.2	4539.8	5225.5	5430.8	5585.7	5424.3
55°	3537.2	3559.5	3669.1	3852.8	4224.2	4566.0	4796.3	5623.7	5855.3	5885.5	5699.2
57.5°	3408.0	3429.6	3624.5	3868.6	4318.0	4724.8	5077.8	6010.8	6298.9	6247.7	5939.3
60°	3169.1	3194.1	3427.6	3825.3	4333.1	4902.0	5446.6	6525.3	6767.4	6705.7	6209.7
62.5°	2952.6	2953.9	3206.5	3639.6	4261.6	5023.4	5894.7	7190.6	7373.0	7264.7	6509.5
65°	2667.2	2664.6	2892.9	3341.0	4059.5	4986.0	6244.4	8002.9	8244.3	7937.3	6796.2
67.5°	2281.4	2273.5	2504.5	2919.8	3684.2	4793.7	6541.0	8555.3	8680.0	8428.0	7025.2
70°	1803.7	1795.2	1990.7	2402.8	3161.3	4354.8	6728.0	8791.5	8865.0	8601.9	7097.4
72.5°	1265.0	1259.8	1376.6	1702.7	2418.5	3663.9	6688.0	8673.4	8720.0	8420.2	6885.5
75°	748.6	746.7	855.6	1041.9	1429.7	2730.2	6235.9	8240.4	8296.2	8023.9	6365.2
77.5°	288.7	267.7	418.0	507.2	813.0	1278.8	4770.1	7462.9	7592.1	7336.2	5608.0
80°	94.5	97.8	293.3	358.2	471.8	572.8	2552.4	6056.8	6363.2	6199.2	4247.8
82.5°	68.9	70.9	182.4	242.1	312.3	388.4	965.8	3292.5	3615.3	3559.5	2085.2
85°	45.3	45.3	62.3	86.0	116.8	155.5	271.0	1671.2	2048.5	1987.4	903.5
87.5°	24.3	24.9	36.1	51.8	70.2	82.0	86.6	341.8	466.5	406.1	180.4
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: P286963

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7	1303.7
2.5°	1292.6	1305.7	1295.9	1288.0	1274.9	1267.7	1269.6	1263.1	1257.2	1272.2	1265.0
5°	1328.7	1337.2	1311.6	1296.5	1275.5	1257.8	1256.5	1242.1	1234.8	1240.7	1243.4
7.5°	1359.5	1366.1	1332.0	1305.1	1284.1	1263.1	1248.6	1223.7	1213.8	1224.3	1228.3
10°	1412.7	1404.8	1363.4	1333.3	1302.4	1276.8	1252.6	1228.9	1211.2	1211.9	1213.2
12.5°	1473.0	1451.4	1414.6	1372.0	1338.5	1312.9	1279.5	1239.4	1211.2	1210.6	1215.2
15°	1557.0	1530.8	1498.6	1448.1	1410.7	1373.9	1320.1	1250.6	1206.0	1190.2	1183.7
17.5°	1662.0	1627.2	1616.1	1557.7	1496.0	1425.8	1339.8	1255.2	1176.4	1146.9	1148.2
20°	1788.0	1776.8	1762.4	1666.6	1578.0	1459.9	1349.0	1234.2	1128.6	1076.7	1071.5
22.5°	1965.1	1959.9	1891.6	1760.4	1624.6	1482.2	1341.1	1189.6	1062.3	998.0	984.9
25°	2169.8	2127.2	2000.6	1839.8	1661.3	1488.1	1309.6	1124.6	984.2	904.2	900.2
27.5°	2373.2	2297.8	2111.4	1889.7	1664.6	1465.1	1243.4	1036.0	906.8	832.0	822.1
30°	2610.1	2508.4	2223.6	1925.8	1657.4	1407.4	1150.9	961.9	855.6	781.5	770.3
32.5°	2909.3	2736.7	2334.5	1942.2	1608.8	1330.0	1052.4	929.7	818.2	732.9	719.8
35°	3267.5	3037.9	2484.8	1941.5	1545.2	1209.9	1002.6	911.4	792.0	687.0	667.3
37.5°	3610.7	3375.2	2654.7	1933.6	1443.5	1084.6	967.8	881.8	774.2	677.8	666.6
40°	3927.0	3652.0	2860.7	1919.2	1324.1	1008.5	929.1	835.9	753.2	686.3	673.8
42.5°	4221.6	3913.2	3045.1	1883.1	1192.9	954.7	876.6	805.1	730.9	646.3	627.3
45°	4488.0	4133.6	3172.4	1797.8	1049.2	895.0	817.5	763.7	690.3	603.6	588.6
47.5°	4710.4	4334.4	3262.3	1683.0	933.0	832.0	749.3	705.3	640.4	561.0	541.3
50°	4905.3	4533.2	3323.3	1487.5	831.3	767.7	681.7	633.8	575.4	519.0	505.2
52.5°	5095.5	4734.7	3394.2	1226.3	735.5	692.9	604.3	551.2	507.2	480.9	471.8
55°	5346.8	4991.2	3394.2	898.9	647.6	633.2	537.4	467.2	436.3	418.0	422.6
57.5°	5573.9	5148.7	3251.1	669.3	591.8	571.5	464.5	395.6	362.8	367.4	381.2
60°	5825.2	5298.9	2852.2	553.8	544.6	486.9	396.3	347.8	330.7	314.3	312.3
62.5°	5997.7	5320.6	2339.8	488.8	497.3	429.8	370.7	320.2	301.2	277.5	272.3
65°	6190.6	5204.5	1760.4	458.6	455.4	408.1	365.5	316.3	290.0	251.3	244.7
67.5°	6119.8	4861.3	1249.9	424.5	425.8	410.7	374.0	315.6	284.1	242.1	237.5
70°	5812.0	4305.6	783.4	408.8	419.9	416.0	389.1	332.0	282.1	219.8	213.2
72.5°	5378.3	3590.4	438.3	379.2	416.6	419.3	407.5	347.1	258.5	179.8	175.8
75°	4667.1	2740.0	313.6	351.0	400.9	418.6	399.6	334.0	236.9	169.3	164.0
77.5°	3648.8	1606.2	276.2	323.5	371.4	374.0	396.3	347.1	246.1	171.9	166.0
80°	1973.0	664.7	232.3	284.8	305.1	353.7	384.5	324.1	227.7	138.4	129.9
82.5°	800.5	187.7	135.2	181.1	247.4	292.0	342.5	286.7	208.7	115.5	108.9
85°	204.7	64.3	63.0	92.5	148.3	218.5	278.2	245.4	169.9	51.2	3.3
87.5°	25.6	21.0	24.9	51.2	96.5	156.8	204.1	177.2	120.7	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)