

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: P286959

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286959
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
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13183 lumens
Efficiency: N/A
Efficacy: 137.3 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



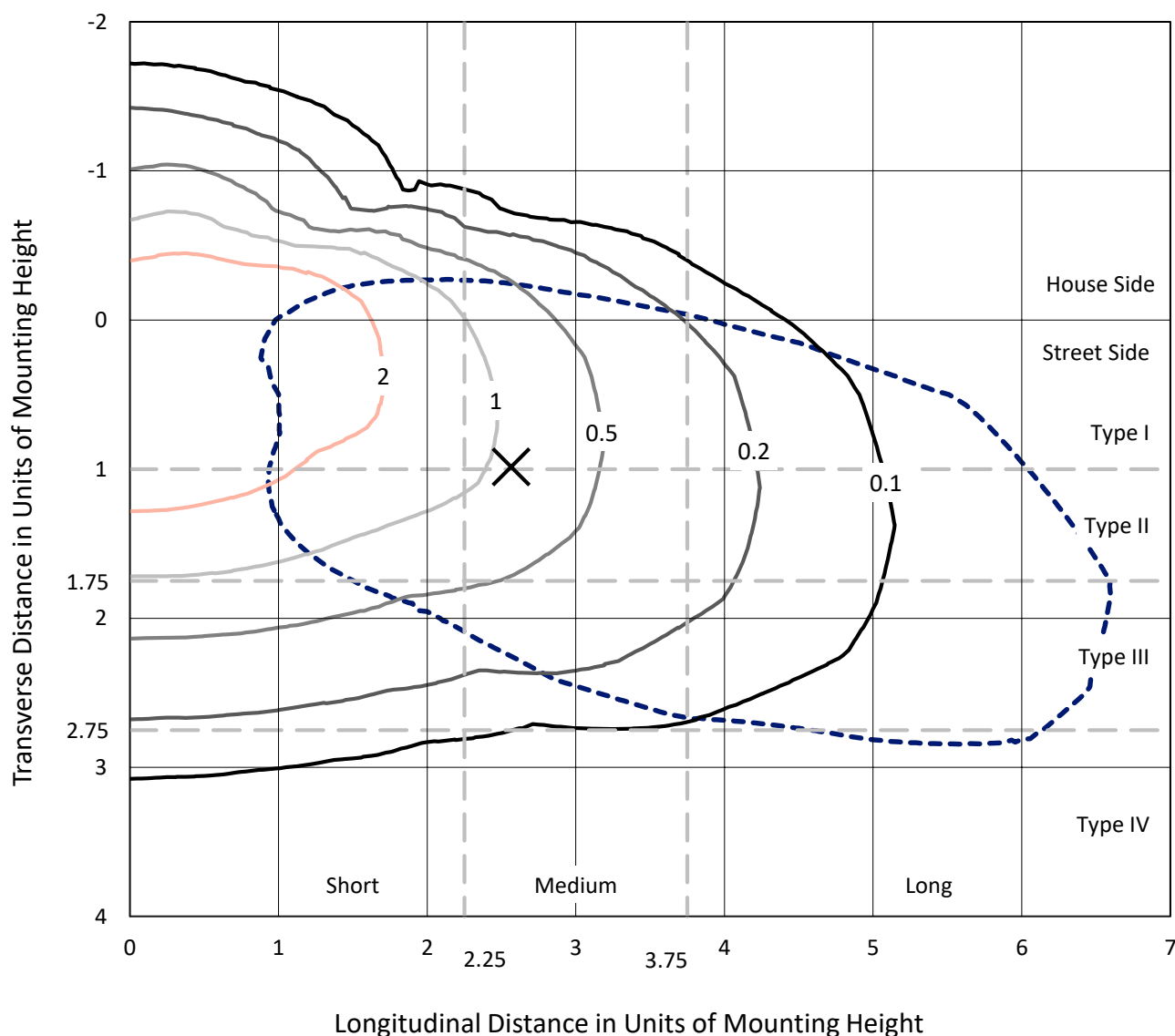
REPORT NUMBER: P286959

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

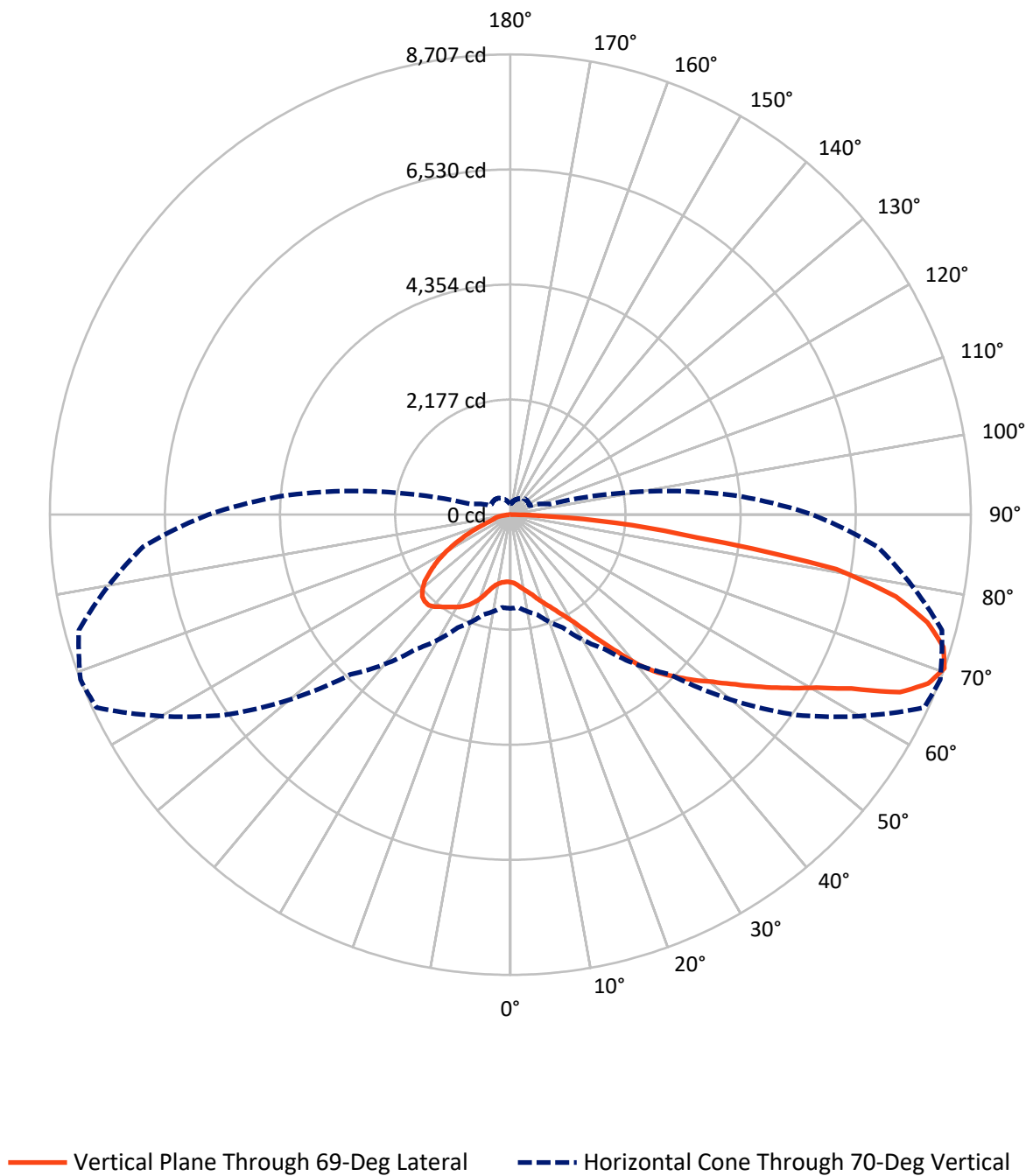


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P286959

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

Luminous Intensity Polar Plot



REPORT NUMBER: P286959

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

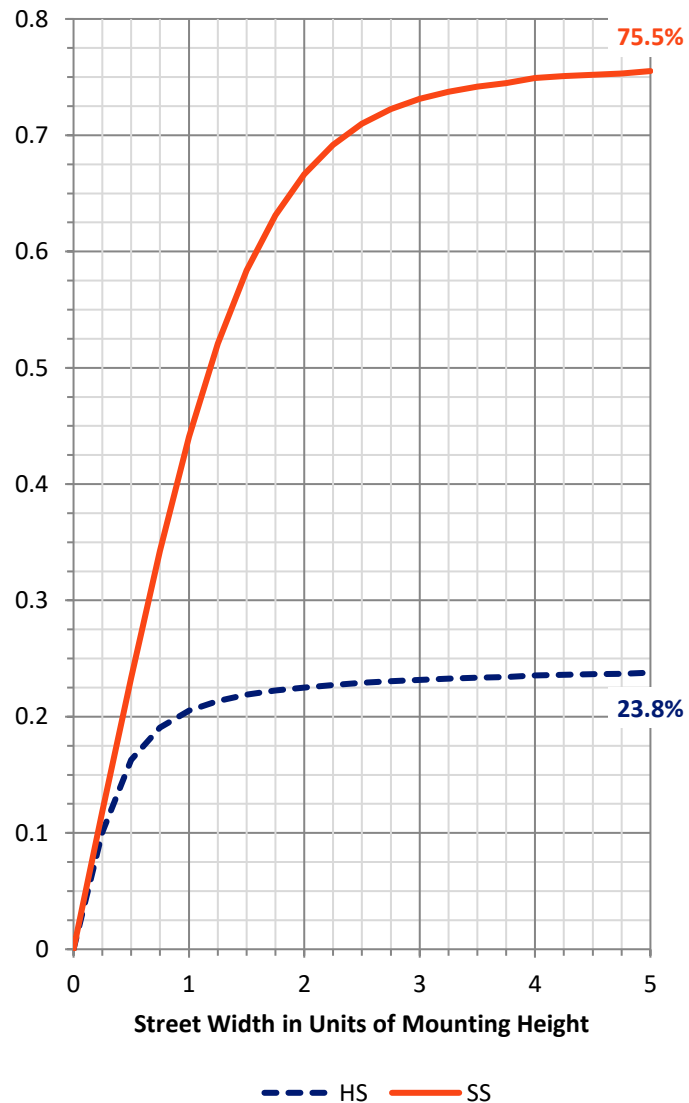
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3197.5	0.0	3197.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9985.5	0.0	9985.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	13183.0	0.0	13183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	1.0
10°-20°	416.9	3.2
20°-30°	784.0	5.9
30°-40°	1342.2	10.2
40°-50°	2050.0	15.6
50°-60°	2651.1	20.1
60°-70°	3015.6	22.9
70°-80°	2297.8	17.4
80°-90°	498.5	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°	13183.0	100.0
0°-180°	13183.0	100.0

Coefficient of Utilization



REPORT NUMBER: P286959

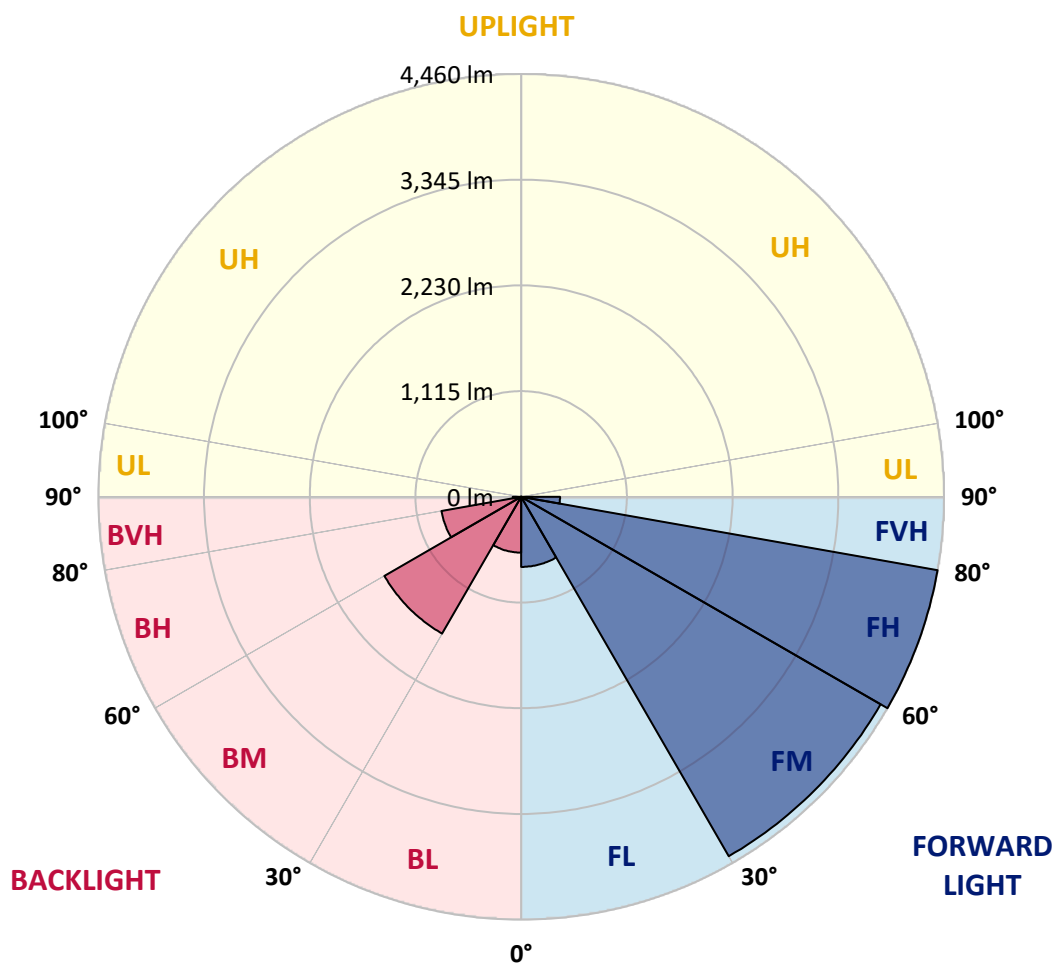
CATALOG NUMBER: USSL-C027-D-U-T3-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	739.0	5.6			
FM	(30°-60°)	4377.1	33.2			
FH	(60°-80°)	4459.6	33.8			G2/5000
FVH	(80°-90°)	409.7	3.1			G3/500
BL	(0°-30°)	588.7	4.5	B2/1000		
BM	(30°-60°)	1666.3	12.6	B2/2500		
BH	(60°-80°)	853.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	88.7	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: P286959

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5
2.5°	1358.5	1349.5	1350.1	1326.9	1327.6	1318.5	1313.4	1305.7	1292.8	1297.3	1276.0
5°	1424.2	1412.0	1415.9	1388.1	1386.9	1374.6	1361.7	1338.5	1332.7	1330.1	1311.5
7.5°	1467.4	1464.8	1462.9	1448.7	1447.4	1433.3	1421.0	1395.9	1386.2	1374.6	1350.8
10°	1509.3	1511.2	1513.2	1488.7	1504.1	1487.4	1473.9	1453.2	1440.3	1436.5	1399.7
12.5°	1530.6	1532.5	1542.8	1535.7	1544.7	1553.8	1540.2	1519.0	1506.1	1506.1	1463.5
15°	1549.3	1554.4	1571.8	1577.6	1593.7	1601.5	1611.8	1598.2	1578.9	1575.7	1540.2
17.5°	1580.8	1578.3	1593.7	1619.5	1638.2	1653.0	1682.0	1678.1	1676.9	1668.5	1642.7
20°	1623.4	1618.9	1634.3	1645.3	1674.3	1718.7	1758.1	1778.0	1776.8	1772.2	1749.7
22.5°	1669.8	1665.3	1665.9	1674.3	1713.6	1780.6	1841.2	1879.2	1879.9	1882.4	1903.1
25°	1749.0	1730.4	1724.5	1731.6	1778.7	1860.5	1938.5	2001.0	2013.3	2028.1	2093.8
27.5°	1941.1	1950.1	1871.5	1820.6	1859.9	1960.4	2051.9	2144.1	2163.4	2207.9	2339.4
30°	2239.5	2224.6	2184.7	2073.8	1984.3	2073.8	2202.7	2316.8	2353.5	2467.0	2585.5
32.5°	2465.0	2465.7	2446.3	2352.2	2228.5	2206.6	2352.2	2541.1	2613.9	2824.6	2931.0
35°	2693.8	2684.1	2700.9	2612.0	2502.4	2424.4	2515.3	2764.7	2931.6	3243.5	3300.9
37.5°	2908.4	2911.6	2915.5	2829.8	2777.6	2750.5	2740.2	3054.1	3293.8	3632.8	3668.9
40°	3067.6	3085.0	3097.2	3050.2	3031.5	3032.8	2988.3	3397.5	3729.4	4063.3	4022.0
42.5°	3194.5	3214.5	3303.5	3240.3	3267.4	3321.5	3313.8	3669.5	4082.6	4393.2	4345.5
45°	3300.9	3301.5	3363.4	3388.5	3485.2	3587.7	3596.0	3959.5	4375.2	4691.0	4599.4
47.5°	3374.3	3361.5	3409.8	3512.3	3690.1	3810.6	3890.5	4287.5	4677.4	4957.8	4859.2
50°	3396.9	3414.9	3495.5	3625.7	3862.8	4053.0	4221.2	4703.2	4971.9	5218.8	5069.9
52.5°	3438.8	3446.5	3559.3	3729.4	4038.1	4291.4	4459.0	5132.4	5334.1	5486.2	5327.7
55°	3474.2	3496.1	3603.8	3784.2	4149.0	4484.7	4710.9	5523.6	5751.1	5780.7	5597.7
57.5°	3347.3	3368.5	3559.9	3799.7	4241.1	4640.7	4987.4	5903.8	6186.7	6136.5	5833.6
60°	3112.7	3137.2	3366.6	3757.1	4256.0	4814.7	5349.6	6409.1	6646.9	6586.3	6099.1
62.5°	2900.0	2901.3	3149.4	3574.8	4185.7	4933.9	5789.7	7062.5	7241.7	7135.4	6393.6
65°	2619.7	2617.1	2841.4	3281.5	3987.2	4897.2	6133.2	7860.4	8097.5	7795.9	6675.2
67.5°	2240.8	2233.0	2459.9	2867.8	3618.6	4708.4	6424.5	8403.0	8525.4	8278.0	6900.1
70°	1771.6	1763.2	1955.3	2360.0	3105.0	4277.2	6608.2	8635.0	8707.2	8448.7	6971.0
72.5°	1242.5	1237.3	1352.1	1672.3	2375.4	3598.6	6568.9	8519.0	8564.7	8270.2	6762.9
75°	735.3	733.4	840.4	1023.4	1404.3	2681.6	6124.9	8093.7	8148.4	7881.0	6251.8
77.5°	283.6	262.9	410.5	498.2	798.5	1256.0	4685.2	7330.0	7456.9	7205.6	5508.1
80°	92.8	96.0	288.1	351.9	463.4	562.6	2506.9	5948.9	6249.9	6088.8	4172.2
82.5°	67.7	69.6	179.2	237.8	306.8	381.5	948.6	3233.9	3550.9	3496.1	2048.1
85°	44.5	44.5	61.2	84.4	114.7	152.7	266.2	1641.4	2012.0	1952.0	887.4
87.5°	23.8	24.5	35.4	50.9	69.0	80.6	85.1	335.8	458.2	398.9	177.2
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: P286959

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5	1280.5
2.5°	1269.6	1282.5	1272.8	1265.1	1252.2	1245.1	1247.0	1240.6	1234.8	1249.6	1242.5
5°	1305.0	1313.4	1288.3	1273.4	1252.8	1235.4	1234.1	1219.9	1212.9	1218.7	1221.2
7.5°	1335.3	1341.7	1308.2	1281.8	1261.2	1240.6	1226.4	1201.9	1192.2	1202.5	1206.4
10°	1387.5	1379.8	1339.2	1309.5	1279.2	1254.1	1230.3	1207.1	1189.7	1190.3	1191.6
12.5°	1446.8	1425.5	1389.4	1347.5	1314.7	1289.5	1256.7	1217.4	1189.7	1189.0	1193.5
15°	1529.3	1503.5	1471.9	1422.3	1385.6	1349.5	1296.6	1228.3	1184.5	1169.0	1162.6
17.5°	1632.4	1598.2	1587.3	1529.9	1469.3	1400.4	1316.0	1232.8	1155.5	1126.5	1127.8
20°	1756.1	1745.2	1731.0	1636.9	1549.9	1433.9	1325.0	1212.2	1108.5	1057.5	1052.4
22.5°	1930.1	1925.0	1858.0	1729.1	1595.7	1455.8	1317.3	1168.4	1043.4	980.2	967.3
25°	2131.2	2089.3	1964.9	1807.0	1631.7	1461.6	1286.3	1104.6	966.7	888.1	884.2
27.5°	2331.0	2256.9	2073.8	1856.0	1635.0	1439.1	1221.2	1017.6	890.6	817.2	807.5
30°	2563.6	2463.7	2184.0	1891.5	1627.9	1382.3	1130.4	944.8	840.4	767.5	756.6
32.5°	2857.5	2688.0	2293.0	1907.6	1580.2	1306.3	1033.7	913.2	803.6	719.9	707.0
35°	3209.4	2983.8	2440.5	1906.9	1517.7	1188.4	984.7	895.1	777.9	674.7	655.4
37.5°	3546.4	3315.1	2607.4	1899.2	1417.8	1065.3	950.6	866.1	760.5	665.7	654.8
40°	3857.0	3587.0	2809.8	1885.0	1300.5	990.5	912.5	821.0	739.8	674.1	661.9
42.5°	4146.4	3843.5	2990.9	1849.6	1171.6	937.7	861.0	790.7	717.9	634.8	616.1
45°	4408.0	4060.0	3115.9	1765.8	1030.5	879.0	803.0	750.1	678.0	592.9	578.1
47.5°	4626.5	4257.2	3204.2	1653.0	916.4	817.2	736.0	692.8	629.0	551.0	531.7
50°	4817.9	4452.5	3264.1	1461.0	816.5	754.0	669.6	622.5	565.2	509.8	496.2
52.5°	5004.8	4650.4	3333.7	1204.5	722.4	680.5	593.5	541.3	498.2	472.4	463.4
55°	5251.6	4902.3	3333.7	882.9	636.1	621.9	527.8	458.8	428.6	410.5	415.0
57.5°	5474.6	5057.0	3193.3	657.3	581.3	561.3	456.3	388.6	356.4	360.9	374.4
60°	5721.4	5204.6	2801.4	543.9	534.9	478.2	389.2	341.6	324.8	308.7	306.8
62.5°	5890.9	5225.9	2298.1	480.1	488.5	422.1	364.1	314.5	295.8	272.6	267.4
65°	6080.4	5111.8	1729.1	450.5	447.2	400.8	359.0	310.6	284.8	246.8	240.4
67.5°	6010.8	4774.7	1227.7	417.0	418.2	403.4	367.3	310.0	279.0	237.8	233.3
70°	5708.5	4228.9	769.5	401.5	412.4	408.6	382.2	326.1	277.1	215.9	209.4
72.5°	5282.6	3526.4	430.5	372.5	409.2	411.8	400.2	340.9	253.9	176.6	172.7
75°	4584.0	2691.2	308.0	344.8	393.8	411.2	392.5	328.0	232.6	166.3	161.1
77.5°	3583.8	1577.6	271.3	317.7	364.8	367.3	389.2	340.9	241.7	168.8	163.0
80°	1937.9	652.8	228.1	279.7	299.7	347.4	377.6	318.4	223.6	136.0	127.6
82.5°	786.2	184.3	132.8	177.9	243.0	286.8	336.4	281.6	204.9	113.4	107.0
85°	201.1	63.2	61.9	90.9	145.6	214.6	273.2	241.0	166.9	50.3	3.2
87.5°	25.1	20.6	24.5	50.3	94.7	154.0	200.4	174.0	118.6	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)