

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: P286955

Luminaire Tested: **USSL-C027-D-U-T3-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286955
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-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12944 lumens
Efficiency: N/A
Efficacy: 134.8 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

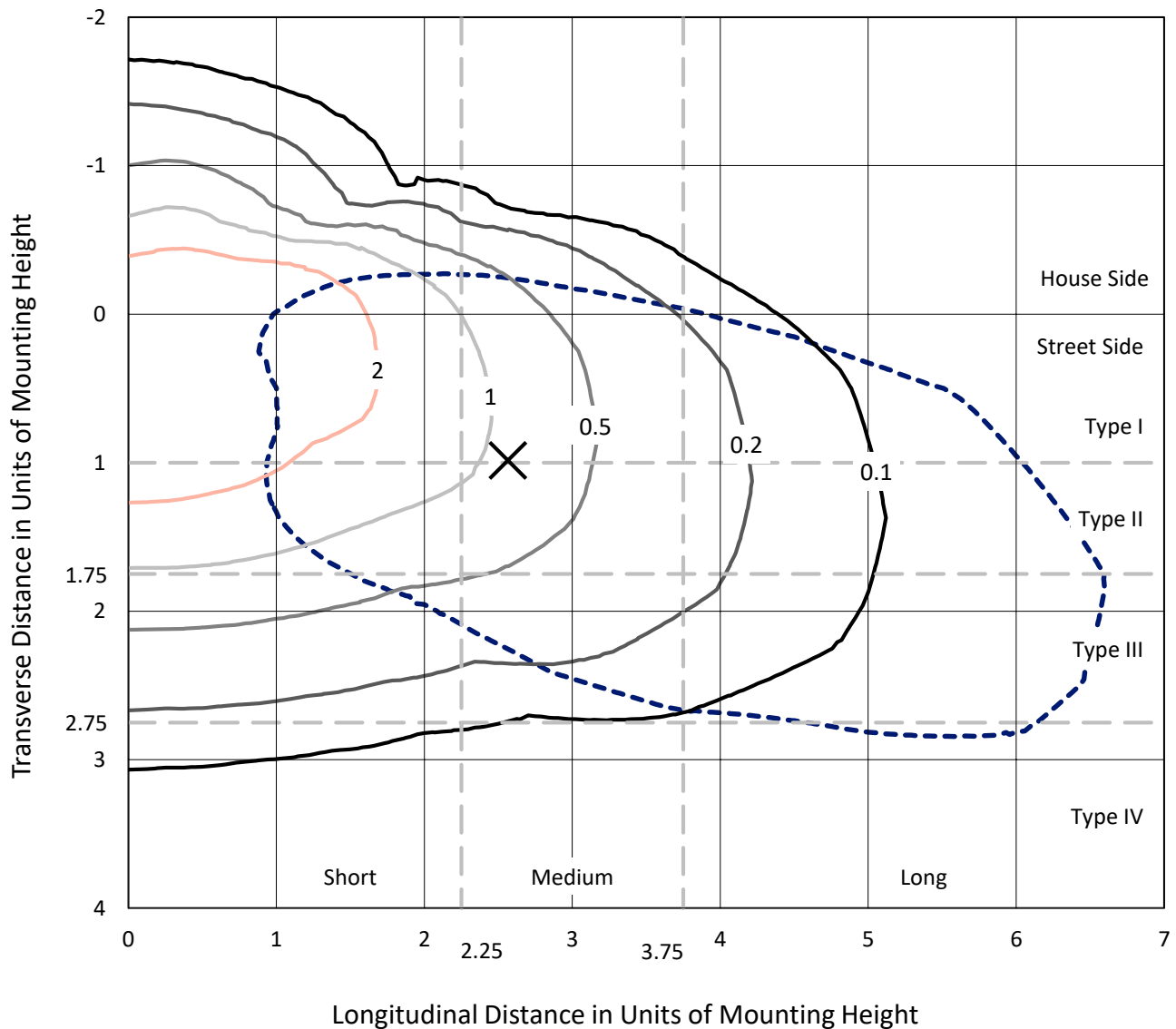


REPORT NUMBER: P286955

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

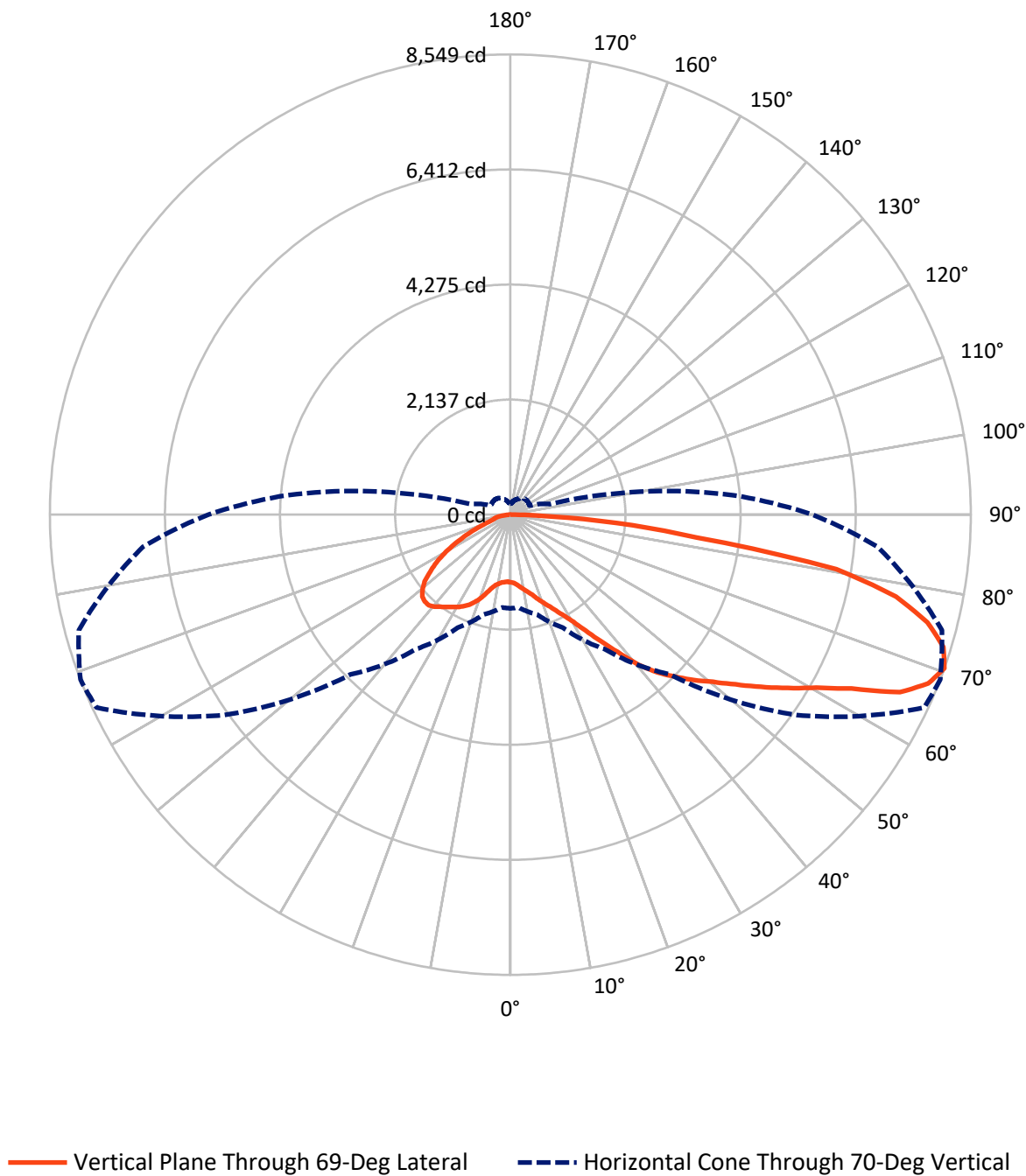


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P286955

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P286955

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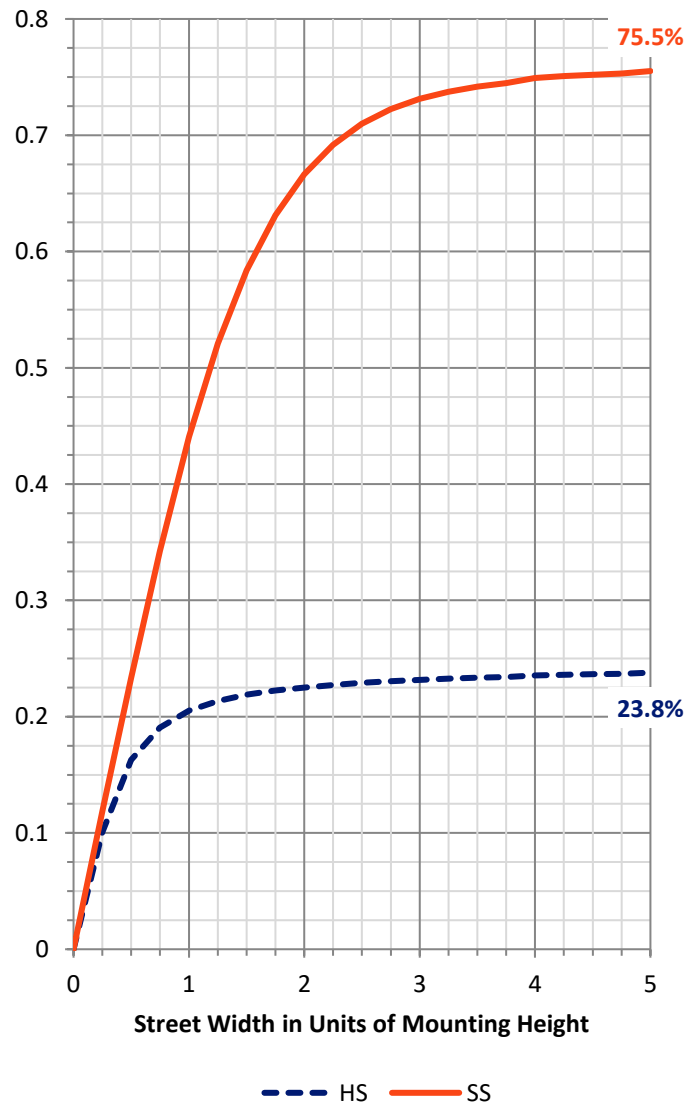
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3139.5	0.0	3139.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9804.5	0.0	9804.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	12944.0	0.0	12944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.0
10°-20°	409.3	3.2
20°-30°	769.8	5.9
30°-40°	1317.9	10.2
40°-50°	2012.9	15.6
50°-60°	2603.0	20.1
60°-70°	2960.9	22.9
70°-80°	2256.2	17.4
80°-90°	489.4	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°	12944.0	100.0
0°-180°	12944.0	100.0

Coefficient of Utilization



REPORT NUMBER: P286955

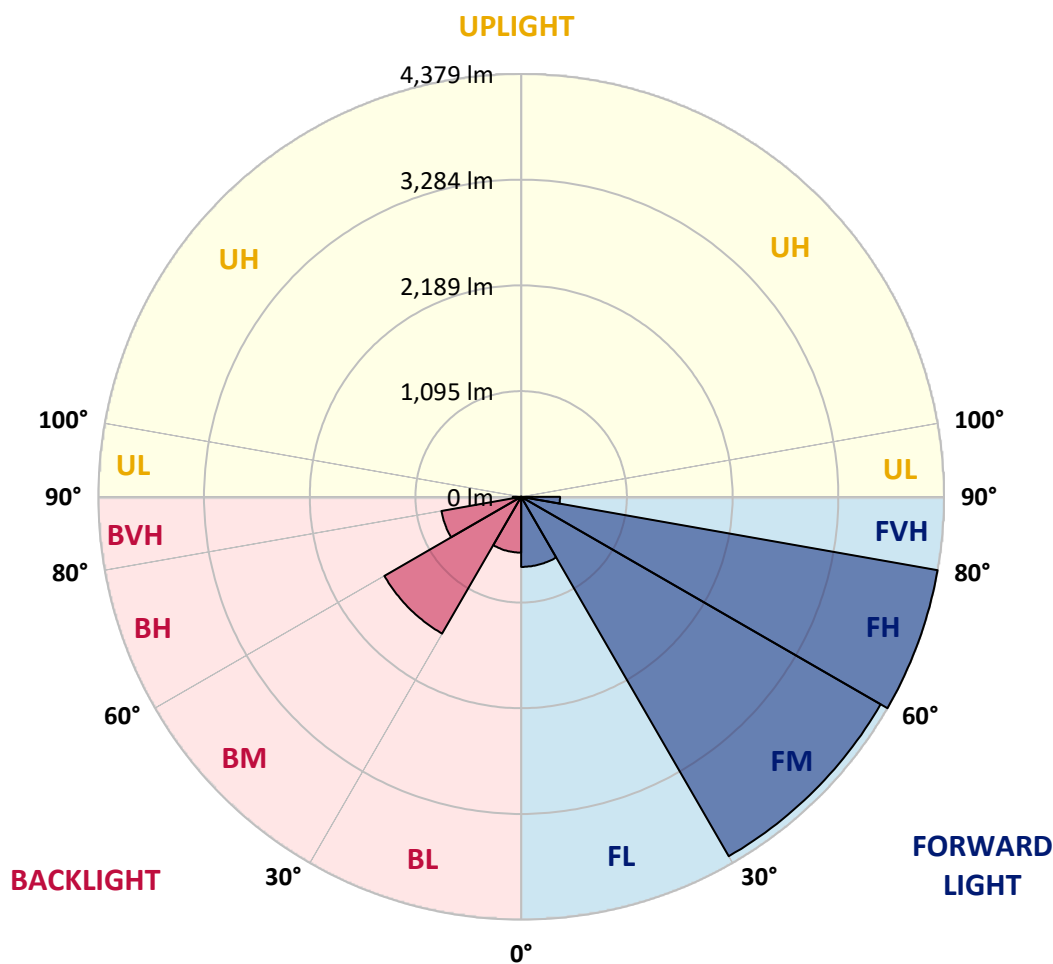
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	725.6	5.6			
FM	(30°-60°)	4297.7	33.2			
FH	(60°-80°)	4378.8	33.8			G2/5000
FVH	(80°-90°)	402.3	3.1			G3/500
BL	(0°-30°)	578.0	4.5	B2/1000		
BM	(30°-60°)	1636.1	12.6	B2/2500		
BH	(60°-80°)	838.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	87.1	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: P286955

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1333.9	1325.0	1325.6	1302.9	1303.5	1294.6	1289.6	1282.0	1269.3	1273.8	1252.9
5°	1398.4	1386.4	1390.2	1363.0	1361.7	1349.7	1337.0	1314.3	1308.6	1306.0	1287.7
7.5°	1440.8	1438.3	1436.4	1422.5	1421.2	1407.3	1395.3	1370.6	1361.1	1349.7	1326.3
10°	1481.9	1483.8	1485.7	1461.7	1476.9	1460.4	1447.1	1426.9	1414.2	1410.4	1374.4
12.5°	1502.8	1504.7	1514.8	1507.9	1516.7	1525.6	1512.3	1491.4	1478.8	1478.8	1437.0
15°	1521.2	1526.2	1543.3	1549.0	1564.8	1572.4	1582.6	1569.3	1550.3	1547.1	1512.3
17.5°	1552.2	1549.6	1564.8	1590.1	1608.5	1623.0	1651.5	1647.7	1646.5	1638.2	1612.9
20°	1593.9	1589.5	1604.7	1615.5	1643.9	1687.6	1726.2	1745.8	1744.5	1740.1	1718.0
22.5°	1639.5	1635.1	1635.7	1643.9	1682.5	1748.3	1807.8	1845.1	1845.8	1848.3	1868.6
25°	1717.3	1699.0	1693.3	1700.2	1746.4	1826.8	1903.4	1964.7	1976.8	1991.3	2055.9
27.5°	1905.9	1914.8	1837.6	1787.6	1826.2	1924.9	2014.7	2105.2	2124.2	2167.9	2296.9
30°	2198.9	2184.3	2145.1	2036.2	1948.3	2036.2	2162.8	2274.8	2310.9	2422.2	2538.7
32.5°	2420.3	2421.0	2402.0	2309.6	2188.1	2166.6	2309.6	2495.0	2566.5	2773.4	2877.8
35°	2645.0	2635.5	2651.9	2564.6	2457.0	2380.5	2469.7	2714.6	2878.5	3184.7	3241.0
37.5°	2855.7	2858.8	2862.6	2778.5	2727.2	2700.7	2690.5	2998.7	3234.1	3566.9	3602.3
40°	3012.0	3029.1	3041.1	2994.9	2976.5	2977.8	2934.1	3335.9	3661.8	3989.6	3949.1
42.5°	3136.6	3156.2	3243.6	3181.6	3208.1	3261.3	3253.7	3603.0	4008.6	4313.6	4266.7
45°	3241.0	3241.7	3302.4	3327.1	3422.0	3522.6	3530.8	3887.7	4295.9	4605.9	4516.1
47.5°	3313.2	3300.5	3348.0	3448.6	3623.2	3741.6	3820.0	4209.8	4592.6	4867.9	4771.1
50°	3335.3	3353.0	3432.1	3559.9	3792.8	3979.5	4144.6	4617.9	4881.8	5124.1	4978.0
52.5°	3376.4	3384.0	3494.8	3661.8	3964.9	4213.6	4378.1	5039.4	5237.4	5386.7	5231.1
55°	3411.2	3432.8	3538.4	3715.6	4073.8	4403.4	4625.5	5423.4	5646.8	5675.9	5496.2
57.5°	3286.6	3307.5	3495.4	3730.8	4164.2	4556.6	4897.0	5796.8	6074.6	6025.2	5727.8
60°	3056.3	3080.3	3305.6	3689.0	4178.8	4727.4	5252.6	6292.9	6526.4	6466.9	5988.5
62.5°	2847.5	2848.7	3092.3	3510.0	4109.8	4844.5	5684.8	6934.5	7110.4	7006.0	6277.7
65°	2572.2	2569.7	2789.9	3222.1	3914.9	4808.4	6022.0	7717.9	7950.7	7654.6	6554.2
67.5°	2200.1	2192.5	2415.3	2815.8	3553.0	4623.0	6308.1	8250.7	8370.9	8127.9	6775.0
70°	1739.5	1731.3	1919.8	2317.2	3048.7	4199.7	6488.4	8478.4	8549.3	8295.6	6844.6
72.5°	1220.0	1214.9	1327.5	1642.0	2332.4	3533.4	6449.8	8364.5	8409.5	8120.3	6640.3
75°	722.0	720.1	825.1	1004.8	1378.8	2632.9	6013.8	7946.9	8000.7	7738.1	6138.5
77.5°	278.4	258.2	403.1	489.1	784.0	1233.3	4600.2	7197.1	7321.7	7075.0	5408.3
80°	91.1	94.3	282.8	345.5	455.0	552.4	2461.5	5841.1	6136.6	5978.4	4096.5
82.5°	66.4	68.3	175.9	233.5	301.2	374.6	931.4	3175.2	3486.5	3432.8	2010.9
85°	43.7	43.7	60.1	82.9	112.6	150.0	261.3	1611.7	1975.5	1916.7	871.3
87.5°	23.4	24.0	34.8	50.0	67.7	79.1	83.5	329.7	449.9	391.7	174.0
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: P286955

CATALOG NUMBER: USSL-C027-D-U-T3-BZ-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1246.6	1259.2	1249.7	1242.1	1229.5	1222.5	1224.4	1218.1	1212.4	1226.9	1220.0
5°	1281.4	1289.6	1264.9	1250.3	1230.1	1213.0	1211.7	1197.8	1190.9	1196.6	1199.1
7.5°	1311.1	1317.4	1284.5	1258.6	1238.3	1218.1	1204.2	1180.1	1170.6	1180.7	1184.5
10°	1362.3	1354.8	1314.9	1285.8	1256.0	1231.4	1208.0	1185.2	1168.1	1168.7	1170.0
12.5°	1420.6	1399.7	1364.2	1323.1	1290.8	1266.2	1233.9	1195.3	1168.1	1167.5	1171.9
15°	1501.6	1476.2	1445.2	1396.5	1360.4	1325.0	1273.1	1206.1	1163.0	1147.8	1141.5
17.5°	1602.8	1569.3	1558.5	1502.2	1442.7	1375.0	1292.1	1210.5	1134.6	1106.1	1107.3
20°	1724.3	1713.5	1699.6	1607.2	1521.8	1407.9	1301.0	1190.2	1088.4	1038.4	1033.3
22.5°	1895.1	1890.1	1824.3	1697.7	1566.7	1429.4	1293.4	1147.2	1024.5	962.4	949.8
25°	2092.6	2051.4	1929.3	1774.3	1602.2	1435.1	1263.0	1084.6	949.2	872.0	868.2
27.5°	2288.7	2216.0	2036.2	1822.4	1605.3	1413.0	1199.1	999.1	874.5	802.3	792.9
30°	2517.1	2419.1	2144.4	1857.2	1598.4	1357.3	1109.9	927.6	825.1	753.6	742.9
32.5°	2805.7	2639.3	2251.4	1873.0	1551.5	1282.6	1015.0	896.6	789.1	706.8	694.1
35°	3151.2	2929.7	2396.3	1872.4	1490.2	1166.8	966.9	878.9	763.7	662.5	643.5
37.5°	3482.1	3255.0	2560.2	1864.8	1392.1	1046.0	933.3	850.4	746.7	653.6	642.9
40°	3787.1	3522.0	2758.9	1850.8	1276.9	972.6	896.0	806.1	726.4	661.9	649.9
42.5°	4071.2	3773.8	2936.7	1816.0	1150.4	920.7	845.4	776.4	704.9	623.3	604.9
45°	4328.1	3986.4	3059.4	1733.8	1011.8	863.1	788.4	736.5	665.7	582.1	567.6
47.5°	4542.6	4180.1	3146.1	1623.0	899.8	802.3	722.6	680.2	617.6	541.0	522.0
50°	4730.6	4371.8	3205.0	1434.5	801.7	740.3	657.4	611.3	554.9	500.5	487.2
52.5°	4914.1	4566.0	3273.3	1182.6	709.3	668.2	582.8	531.5	489.1	463.8	455.0
55°	5156.4	4813.5	3273.3	866.9	624.5	610.6	518.2	450.5	420.8	403.1	407.5
57.5°	5375.4	4965.3	3135.4	645.4	570.8	551.1	448.0	381.6	349.9	354.3	367.6
60°	5617.7	5110.2	2750.6	534.1	525.2	469.5	382.2	335.4	318.9	303.1	301.2
62.5°	5784.1	5131.1	2256.4	471.4	479.6	414.5	357.5	308.8	290.4	267.7	262.6
65°	5970.2	5019.1	1697.7	442.3	439.1	393.6	352.5	305.0	279.7	242.3	236.0
67.5°	5901.8	4688.2	1205.4	409.4	410.7	396.1	360.7	304.4	274.0	233.5	229.1
70°	5605.1	4152.2	755.5	394.2	405.0	401.2	375.2	320.2	272.1	212.0	205.6
72.5°	5186.8	3462.5	422.7	365.7	401.8	404.3	392.9	334.7	249.3	173.4	169.6
75°	4500.9	2642.4	302.5	338.5	386.6	403.7	385.4	322.1	228.4	163.3	158.2
77.5°	3518.8	1549.0	266.4	312.0	358.1	360.7	382.2	334.7	237.3	165.8	160.1
80°	1902.7	641.0	224.0	274.6	294.2	341.1	370.8	312.6	219.6	133.5	125.3
82.5°	772.0	181.0	130.4	174.6	238.6	281.6	330.3	276.5	201.2	111.4	105.0
85°	197.4	62.0	60.7	89.2	143.0	210.7	268.3	236.7	163.9	49.4	3.2
87.5°	24.7	20.2	24.0	49.4	93.0	151.2	196.8	170.8	116.4	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)