

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461895

Luminaire Tested: USSL-110-8540-U-T4RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461895
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T4RE
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE IV ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14961.1 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

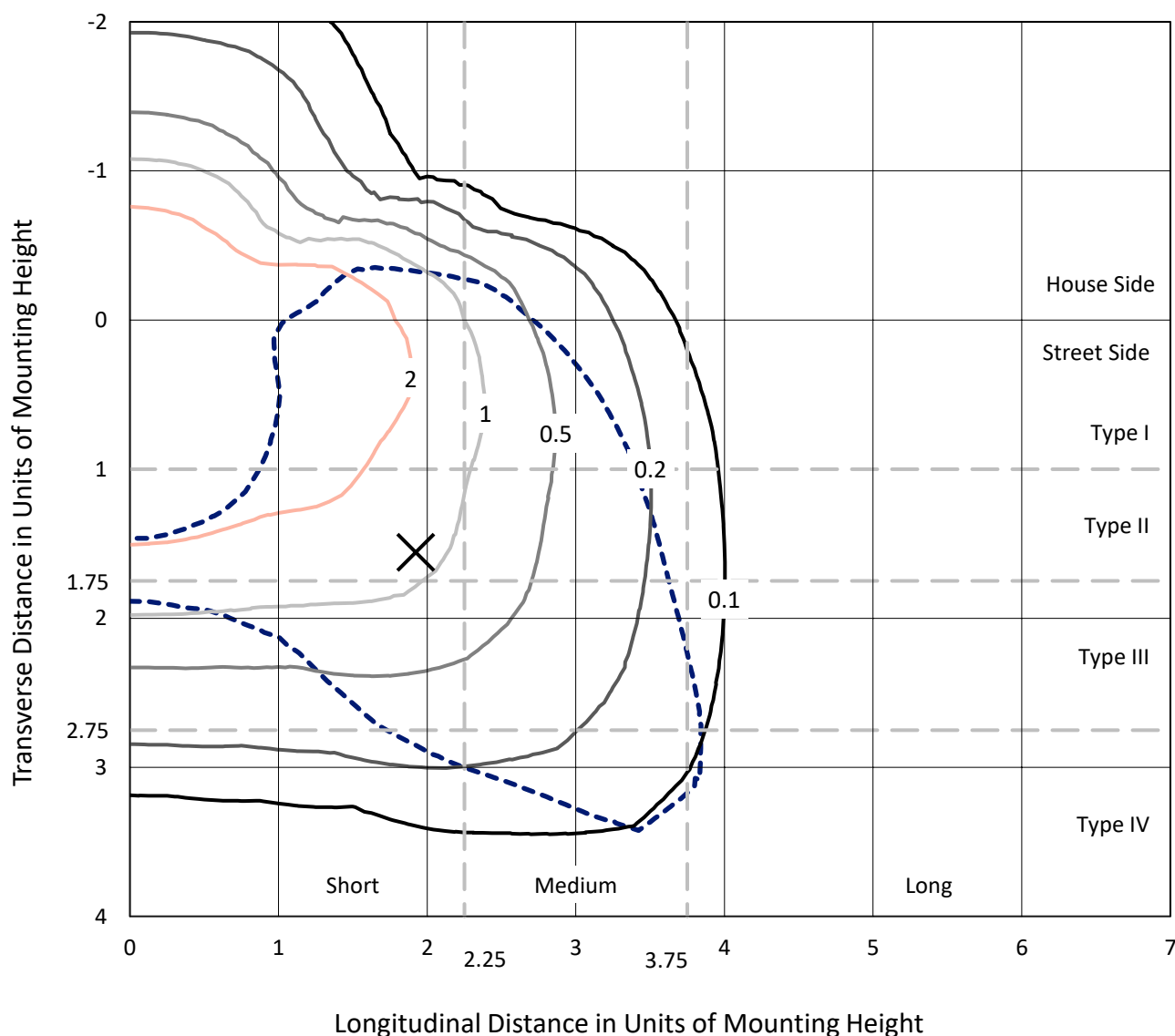
REPORT NUMBER: P1461895

CATALOG NUMBER: USSL-110-8540-U-T4RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



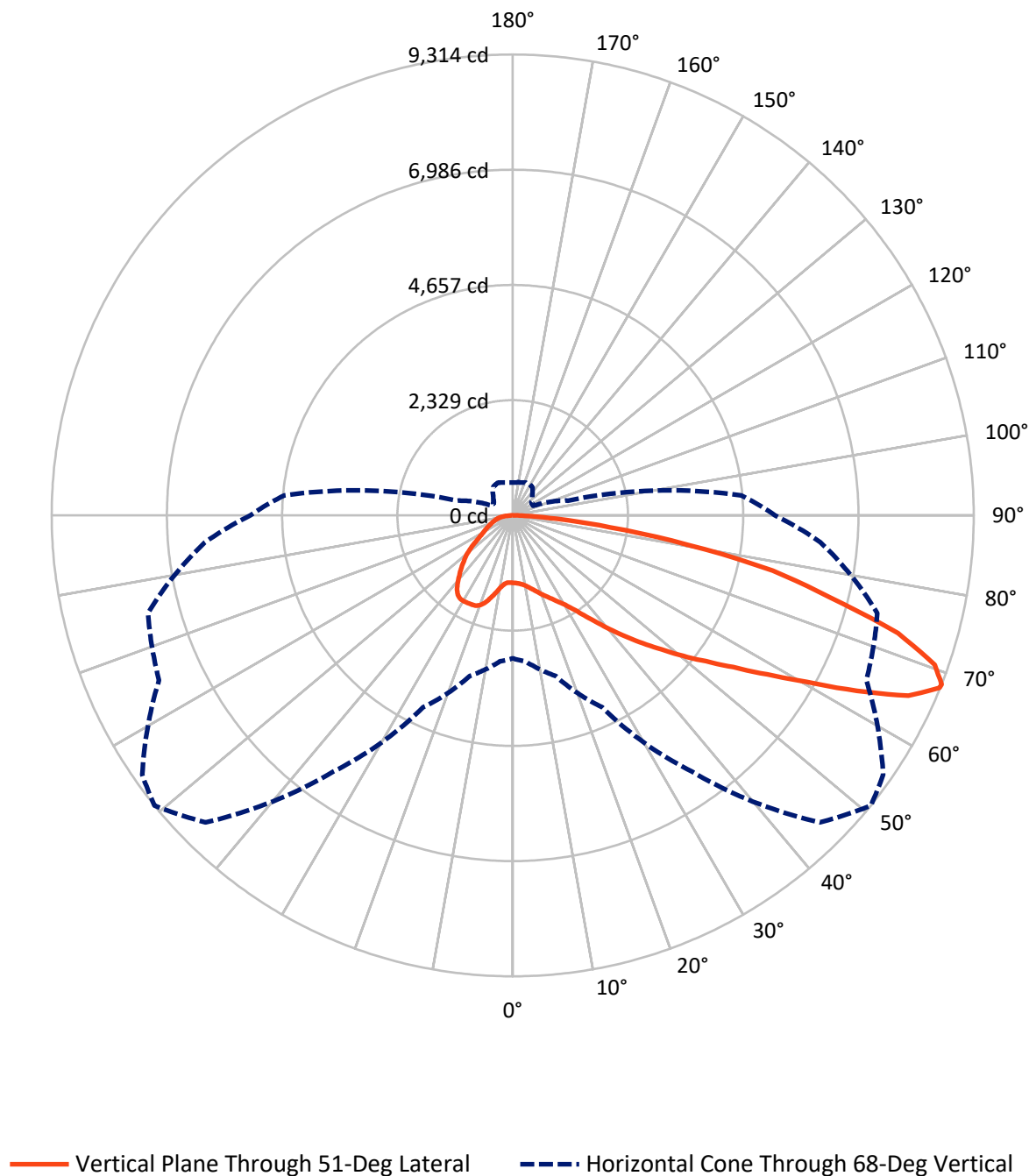
Based on 20 foot mounting height. Maximum calculated value = 4.3 fc

Type IV - Short - N/A

REPORT NUMBER: P1461895

CATALOG NUMBER: USSL-110-8540-U-T4RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1461895

CATALOG NUMBER: USSL-110-8540-U-T4RE

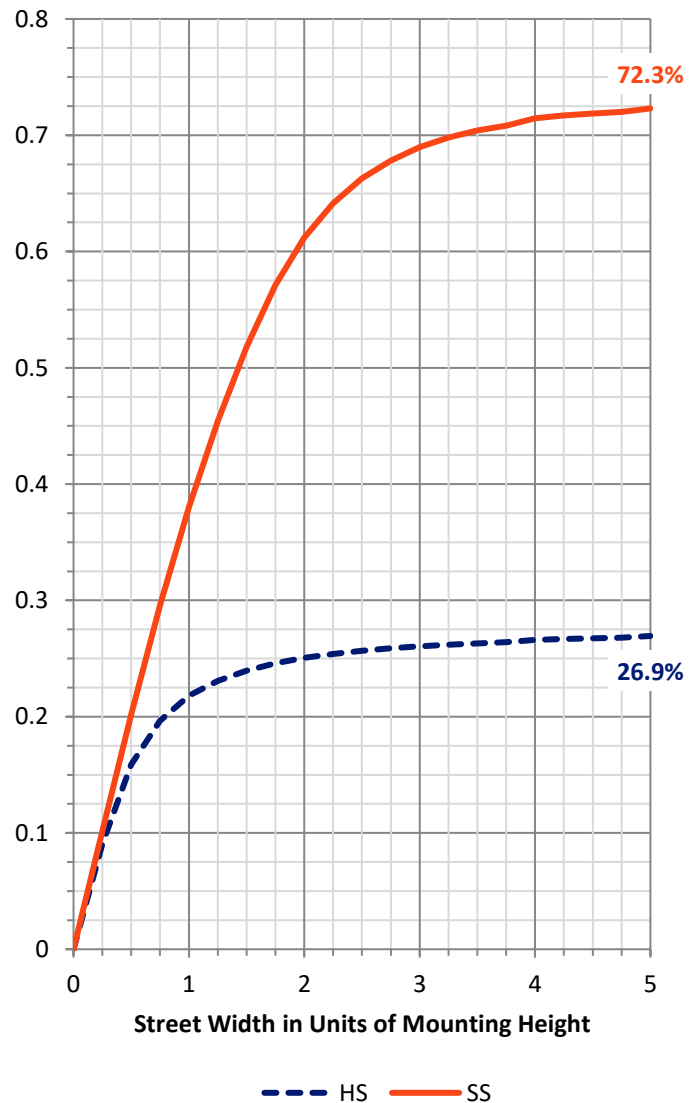
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4090.0	0.0	4090.0
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	10871.0	0.0	10871.0
	% Fixture	72.7	0.0	72.7
Total	Lumens	14961.1	0.0	14961.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	0.9
10°-20°	470.1	3.1
20°-30°	905.6	6.1
30°-40°	1449.3	9.7
40°-50°	2265.8	15.1
50°-60°	3263.3	21.8
60°-70°	3907.1	26.1
70°-80°	2229.6	14.9
80°-90°	335.6	2.2
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°	14961.1	100.0
0°-180°	14961.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1461895

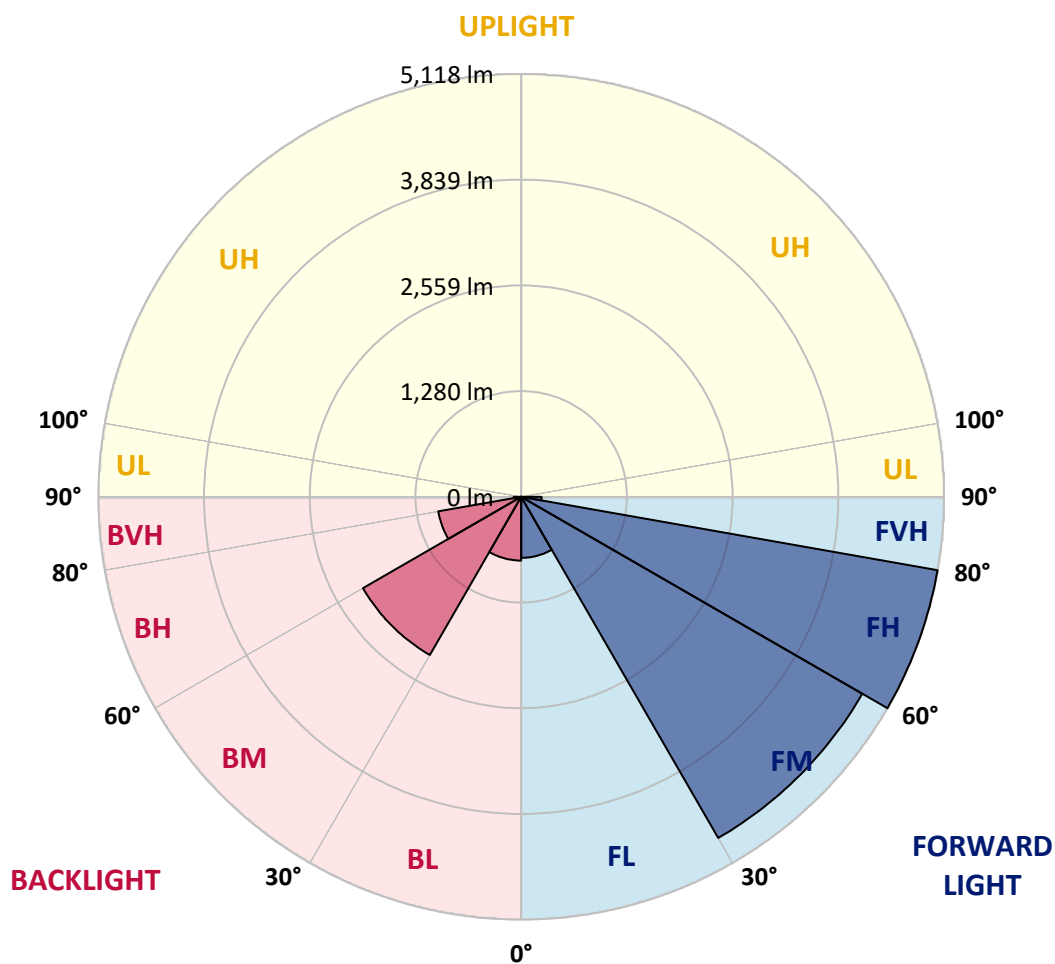
CATALOG NUMBER: USSL-110-8540-U-T4RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.8	4.9			
FM	(30°-60°)	4767.7	31.9			
FH	(60°-80°)	5118.2	34.2			G3/7500
FVH	(80°-90°)	246.3	1.6			G3/500
BL	(0°-30°)	771.6	5.2	B2/1000		
BM	(30°-60°)	2210.6	14.8	B2/2500		
BH	(60°-80°)	1018.5	6.8	B3/2500		G3/2500
BVH	(80°-90°)	89.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



REPORT NUMBER: P1461895

CATALOG NUMBER: USSL-110-8540-U-T4RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5
2.5°	1377.1	1376.4	1373.6	1377.8	1373.6	1372.9	1369.4	1371.5	1366.0	1366.6	1366.6
5°	1401.5	1400.1	1399.4	1397.3	1392.4	1391.7	1384.8	1388.3	1383.4	1379.9	1375.7
7.5°	1443.3	1440.5	1435.6	1430.8	1422.4	1413.3	1407.8	1411.3	1405.0	1400.8	1395.2
10°	1508.1	1505.3	1497.0	1487.9	1474.0	1456.6	1444.7	1442.6	1435.6	1429.4	1423.1
12.5°	1581.3	1578.5	1572.9	1562.5	1538.8	1514.4	1496.3	1491.4	1474.7	1465.6	1463.5
15°	1648.2	1643.3	1643.3	1629.4	1609.9	1581.3	1559.0	1551.3	1522.8	1513.7	1513.0
17.5°	1700.5	1695.6	1694.9	1690.7	1671.9	1646.1	1626.6	1618.9	1591.8	1575.7	1578.5
20°	1763.2	1758.3	1756.9	1754.1	1743.0	1719.3	1706.0	1699.8	1666.3	1644.7	1655.9
22.5°	1853.8	1850.3	1844.0	1831.5	1816.2	1801.5	1784.8	1782.7	1755.5	1737.4	1759.7
25°	1960.4	1952.1	1949.3	1929.1	1909.5	1888.6	1874.7	1877.5	1852.4	1837.1	1866.3
27.5°	2093.5	2083.8	2074.7	2054.5	2017.6	1997.4	1981.3	1984.1	1959.7	1959.0	2014.8
30°	2243.4	2240.6	2223.9	2194.6	2148.6	2123.5	2099.1	2104.7	2092.1	2100.5	2193.9
32.5°	2412.7	2413.4	2391.8	2358.4	2311.0	2278.9	2260.8	2263.6	2271.9	2311.0	2423.2
35°	2628.8	2616.2	2616.9	2578.6	2508.9	2481.0	2474.0	2478.2	2507.5	2638.5	2776.5
37.5°	2867.1	2856.7	2856.7	2828.1	2761.2	2713.8	2727.7	2739.6	2840.6	3085.2	3231.6
40°	3123.6	3108.9	3132.6	3122.9	3044.8	3028.8	3021.1	3062.9	3246.9	3584.2	3782.9
42.5°	3314.5	3316.6	3330.6	3345.2	3305.5	3325.7	3344.5	3392.6	3661.6	4132.0	4332.0
45°	3494.3	3495.7	3507.6	3529.9	3545.2	3601.0	3685.3	3754.3	4121.6	4610.8	4824.0
47.5°	3686.7	3679.7	3699.2	3754.3	3775.9	3920.8	4045.6	4166.2	4529.2	5086.1	5285.4
50°	3893.0	3893.7	3914.6	3987.0	4054.6	4277.0	4464.4	4597.5	4973.9	5561.4	5707.7
52.5°	4202.4	4175.9	4196.1	4249.1	4359.9	4659.6	4897.2	5051.9	5419.2	6011.6	6168.4
55°	4548.1	4552.9	4582.9	4619.1	4771.1	5147.4	5411.5	5587.9	5903.6	6555.2	6705.0
57.5°	4879.8	4854.0	4936.9	5054.0	5229.6	5755.1	6063.9	6201.8	6431.1	7206.1	7298.1
60°	4964.8	4971.1	5114.7	5415.7	5799.7	6534.3	6829.1	6898.1	7105.7	8029.2	7799.2
62.5°	4582.9	4601.7	4930.0	5530.7	6322.4	7435.4	7807.5	7811.7	7841.0	8420.1	7825.7
65°	3741.0	3780.1	4222.6	5117.4	6556.6	8319.8	8783.2	8749.1	8155.3	8273.8	7342.0
67.5°	3028.8	3079.0	3486.0	4451.2	6377.5	8766.5	9303.1	9129.6	7972.7	7789.4	6451.3
68°	2889.4	2959.1	3359.1	4277.0	6321.0	8773.5	9314.3	9136.6	7883.5	7627.0	6239.5
70°	2404.4	2478.2	2860.8	3803.8	6088.9	8536.5	9044.6	8898.2	7402.6	6854.9	5399.7
72.5°	1508.1	1552.7	2009.2	3029.5	5548.8	7668.2	8138.6	8102.3	6627.0	5604.6	4093.0
75°	647.4	669.0	997.3	1828.0	4276.3	6475.7	6612.3	6636.7	5254.7	3966.8	2592.5
77.5°	424.4	425.1	461.4	808.4	2588.3	5195.5	5371.8	4966.2	3523.6	2113.0	1213.3
80°	356.8	355.4	353.3	387.5	1145.7	3492.2	3580.1	3177.2	1792.5	857.2	417.5
82.5°	301.8	294.8	280.2	290.6	446.7	1784.1	1982.7	1743.0	823.1	309.4	187.5
85°	211.9	204.2	184.7	200.0	225.8	776.4	883.7	768.0	292.0	180.5	110.8
87.5°	91.3	76.7	79.4	94.1	101.1	231.4	242.5	170.7	99.7	74.6	44.6
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: P1461895

CATALOG NUMBER: USSL-110-8540-U-T4RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5	1362.5
2.5°	1363.9	1363.9	1361.8	1361.1	1358.3	1358.3	1354.8	1354.8	1355.5	1352.7	1353.4
5°	1374.3	1372.2	1370.1	1366.6	1364.6	1364.6	1366.6	1369.4	1371.5	1372.2	1371.5
7.5°	1391.7	1391.7	1390.3	1389.6	1395.2	1406.4	1420.3	1428.0	1444.0	1448.9	1454.5
10°	1423.1	1422.4	1425.9	1439.8	1463.5	1492.8	1518.6	1540.9	1564.6	1568.1	1573.6
12.5°	1459.3	1467.7	1486.5	1522.1	1569.5	1608.5	1646.8	1682.4	1703.3	1717.2	1713.7
15°	1516.5	1530.4	1572.9	1635.7	1683.0	1736.7	1778.5	1809.2	1830.8	1838.5	1845.4
17.5°	1591.8	1616.1	1682.4	1754.8	1809.9	1850.3	1880.3	1888.6	1898.4	1902.6	1905.4
20°	1682.4	1729.7	1812.7	1877.5	1914.4	1925.6	1931.2	1928.4	1933.2	1939.5	1943.0
22.5°	1795.3	1858.0	1950.7	1982.7	1975.1	1958.3	1955.5	1959.7	1971.6	1975.1	1980.6
25°	1929.8	1990.4	2075.4	2051.0	1991.1	1969.5	1988.3	1990.4	1991.8	1990.4	1995.3
27.5°	2086.6	2147.2	2173.7	2062.9	1984.1	1993.9	2009.9	1987.6	1959.7	1940.9	1946.5
30°	2258.7	2302.6	2235.7	2043.4	1986.9	2007.1	1982.0	1909.5	1864.2	1839.2	1842.6
32.5°	2480.3	2478.2	2262.9	2033.6	2005.0	1974.4	1880.3	1798.0	1745.1	1715.1	1716.5
35°	2761.9	2680.3	2284.5	2061.5	2000.8	1886.5	1776.4	1687.9	1646.1	1621.7	1624.5
37.5°	3136.8	2910.3	2332.6	2101.9	1931.2	1775.7	1668.4	1615.4	1593.8	1576.4	1580.6
40°	3626.7	3227.4	2476.1	2111.0	1801.5	1648.2	1605.0	1578.5	1557.6	1538.1	1545.1
42.5°	4042.8	3551.5	2756.3	2046.8	1639.8	1547.8	1563.2	1543.0	1510.9	1476.1	1479.5
45°	4457.5	3840.0	3087.3	1907.5	1474.0	1473.3	1508.8	1478.9	1434.3	1380.6	1382.0
47.5°	4806.6	4122.9	3421.2	1737.4	1322.7	1378.5	1423.1	1383.4	1309.5	1242.6	1236.3
50°	5126.5	4444.2	3699.9	1545.8	1193.8	1261.4	1285.1	1218.2	1159.7	1121.3	1117.9
52.5°	5469.4	4826.1	3922.9	1376.4	1054.4	1099.0	1119.2	1098.3	1073.2	1050.3	1045.4
55°	5910.5	5324.4	4155.7	1257.2	906.0	947.8	988.9	1024.5	1009.1	997.3	990.3
57.5°	6431.1	5958.6	4228.2	1103.9	774.3	816.1	919.2	973.6	961.7	953.4	950.6
60°	6822.8	6413.0	3820.5	857.9	666.9	731.8	875.3	936.7	912.3	890.7	884.4
62.5°	6808.2	6295.2	2970.9	650.9	595.2	675.3	830.7	879.5	842.6	823.1	814.7
65°	6298.0	5743.3	2092.1	539.4	531.0	621.0	770.8	808.4	774.3	751.3	747.1
67.5°	5500.0	4893.0	1299.0	468.3	475.3	564.5	707.4	742.9	702.5	681.6	683.0
68°	5300.0	4633.8	1154.1	453.7	462.8	556.1	694.1	724.8	687.9	668.3	666.9
70°	4529.2	3827.5	762.4	413.3	424.4	516.4	644.6	666.9	636.3	620.3	616.8
72.5°	3345.9	2595.3	439.8	365.2	380.5	466.9	577.7	600.7	595.2	599.3	606.3
75°	2069.1	1498.4	324.8	322.7	338.7	426.5	523.4	565.9	578.4	598.0	602.8
77.5°	987.5	722.7	268.3	278.8	299.0	375.6	476.0	542.9	544.3	547.1	550.6
80°	325.5	276.0	226.5	229.3	258.6	330.3	430.7	479.5	446.7	438.4	427.9
82.5°	172.1	177.7	182.6	184.7	215.3	272.5	338.0	354.7	326.2	229.3	226.5
85°	100.4	105.9	117.1	126.8	147.7	188.2	243.9	244.6	207.7	102.4	89.9
87.5°	33.5	40.4	39.7	47.4	55.8	75.3	103.1	106.6	85.7	35.5	20.2
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)