

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: P1461374

Luminaire Tested: USSL-70-8540-U-T4W

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461374
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T4W
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10227 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

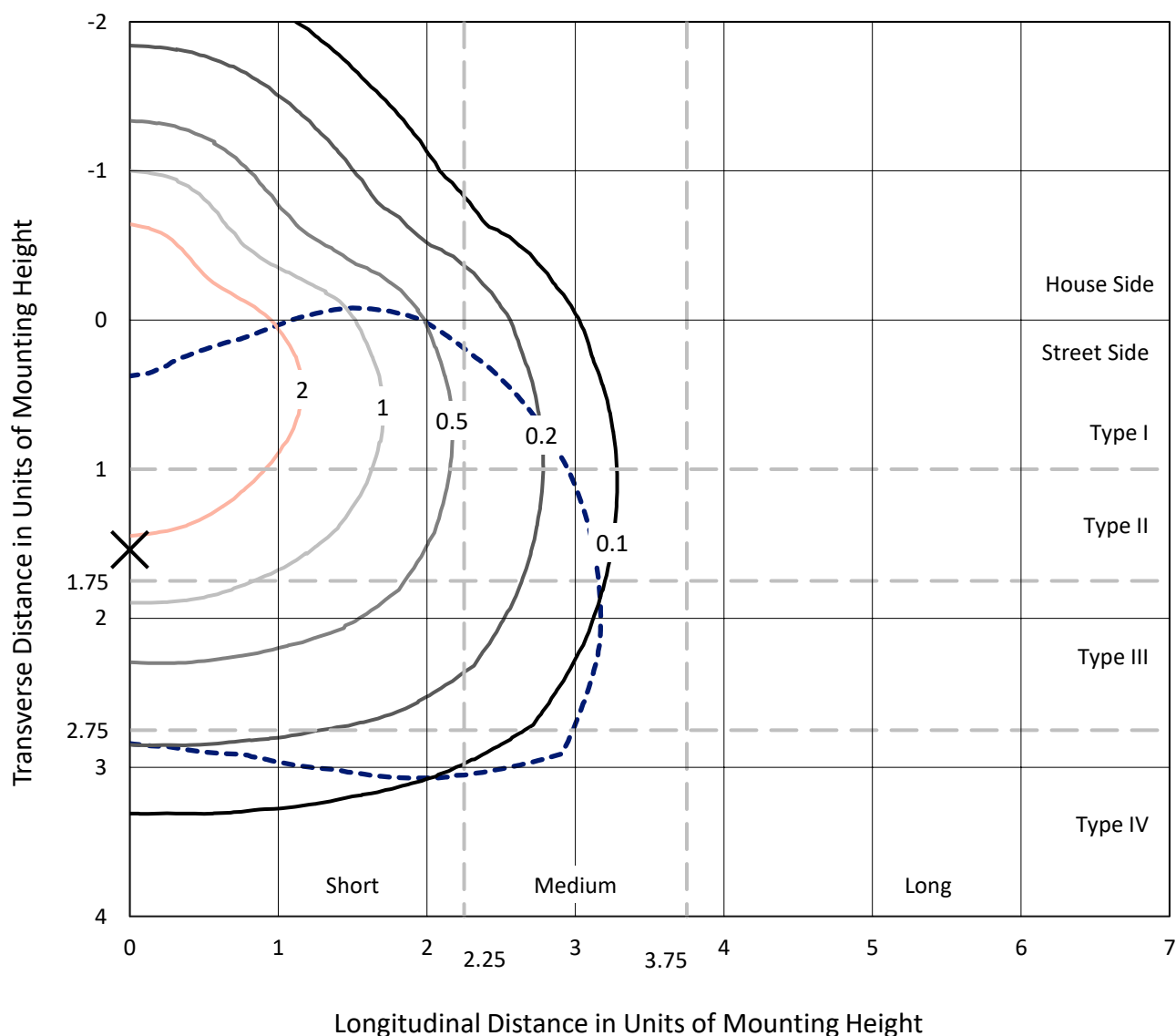
Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1461374

CATALOG NUMBER: USSL-70-8540-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

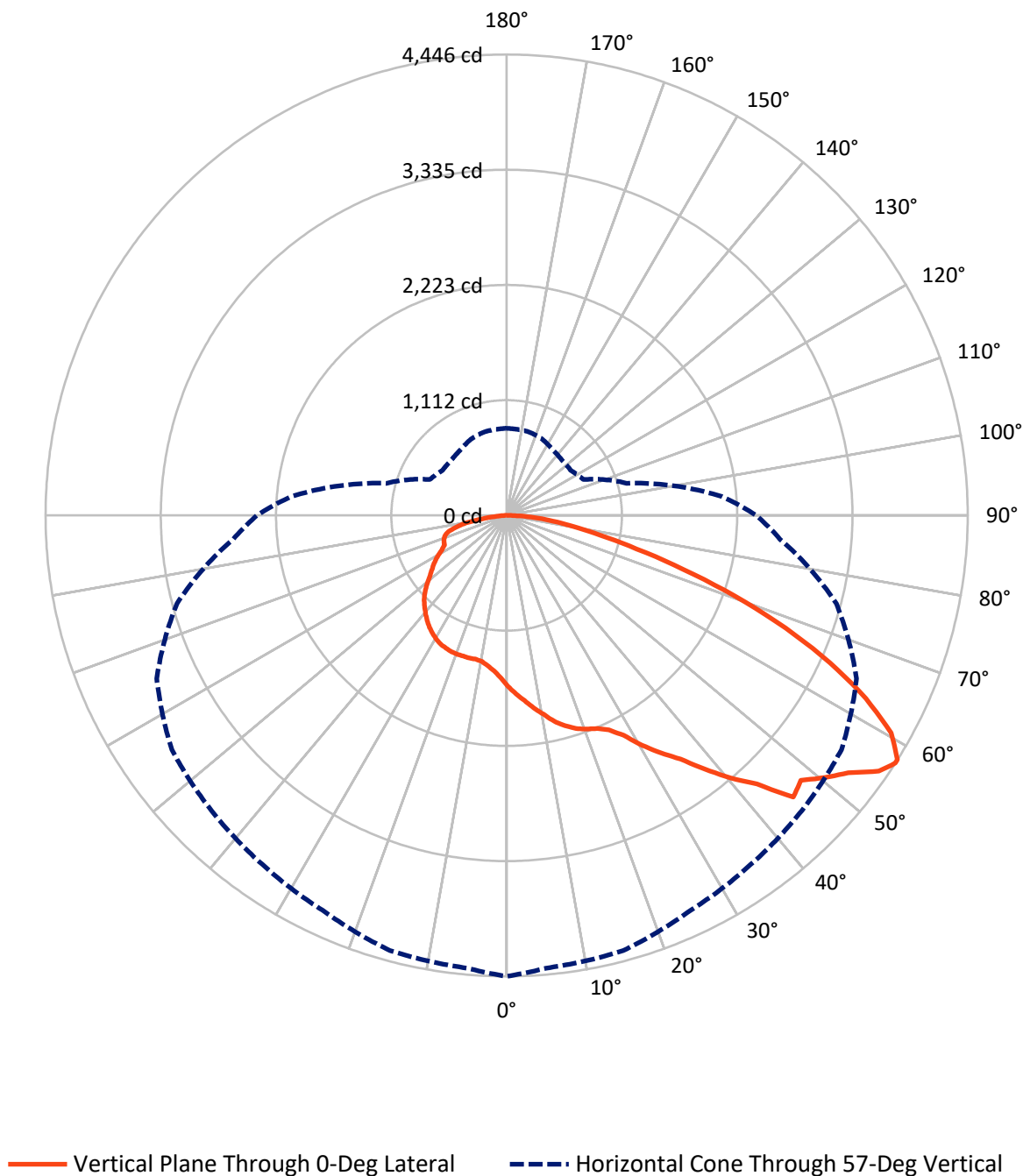


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P1461374

CATALOG NUMBER: USSL-70-8540-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P1461374

CATALOG NUMBER: USSL-70-8540-U-T4W

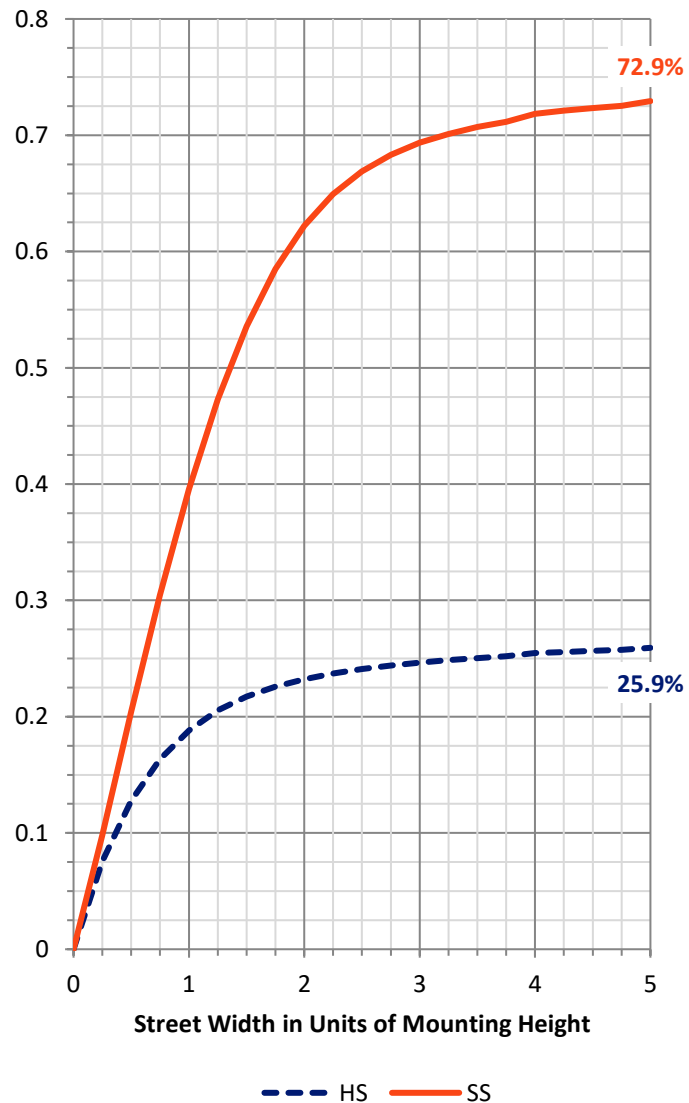
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2696.5	0.0	2696.5
	% Fixture	26.4	0.0	26.4
Street Side	Lumens	7530.5	0.0	7530.5
	% Fixture	73.6	0.0	73.6
Total	Lumens	10227.0	0.0	10227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	1.5
10°-20°	487.3	4.8
20°-30°	834.9	8.2
30°-40°	1228.5	12.0
40°-50°	1690.5	16.5
50°-60°	2133.2	20.9
60°-70°	2161.5	21.1
70°-80°	1241.3	12.1
80°-90°	291.7	2.9
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°	10227.0	100.0
0°-180°	10227.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1461374

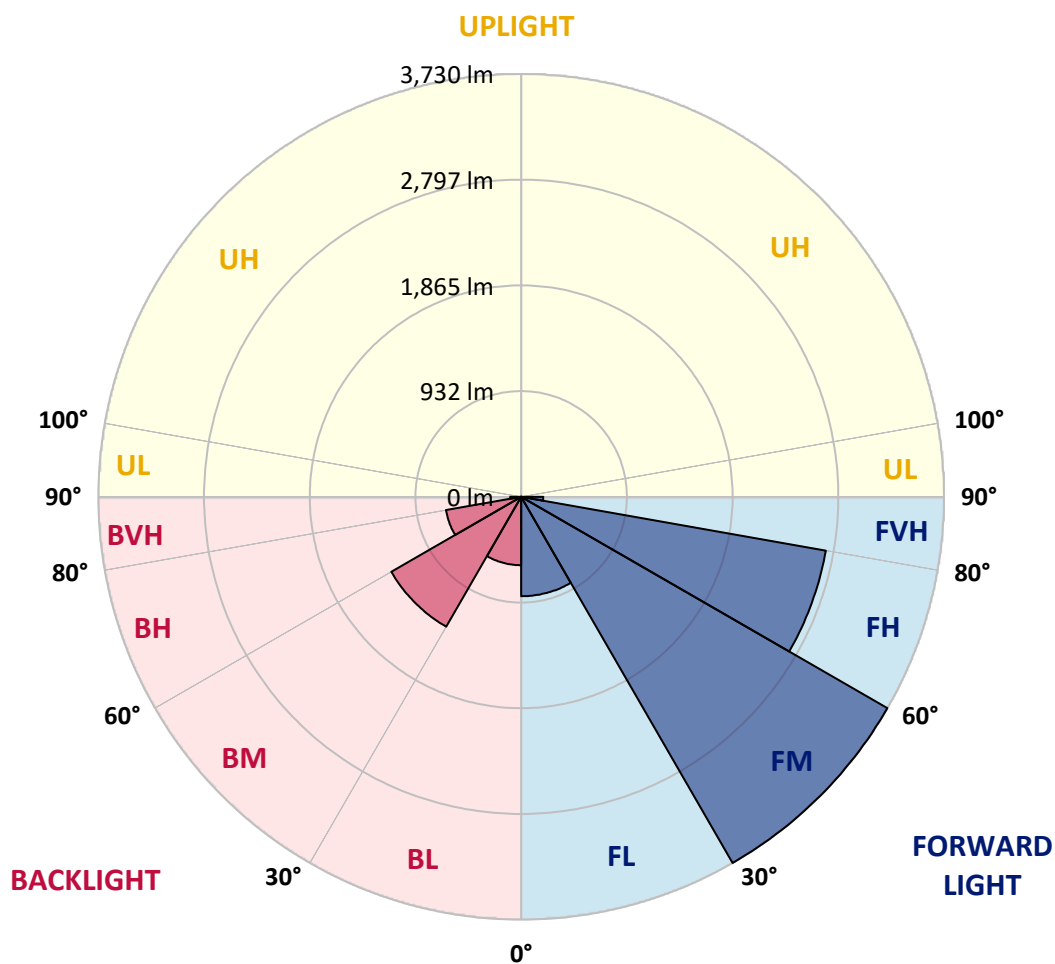
CATALOG NUMBER: USSL-70-8540-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	876.6	8.6			
FM	(30°-60°)	3729.5	36.5			
FH	(60°-80°)	2729.1	26.7			G2/5000
FVH	(80°-90°)	195.3	1.9			G2/225
BL	(0°-30°)	603.7	5.9	B2/1000		
BM	(30°-60°)	1322.6	12.9	B2/2500		
BH	(60°-80°)	673.8	6.6	B2/1000		G2/1000
BVH	(80°-90°)	96.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P1461374

CATALOG NUMBER: USSL-70-8540-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3
2.5°	1723.8	1728.1	1724.2	1717.5	1706.8	1700.5	1697.1	1680.2	1669.6	1658.9	1649.2
5°	1793.5	1799.7	1798.3	1783.8	1773.1	1760.1	1739.3	1712.6	1689.4	1660.9	1646.3
7.5°	1874.8	1874.8	1864.1	1855.4	1831.7	1811.8	1785.2	1749.4	1710.2	1671.5	1646.8
10°	1950.7	1955.6	1947.3	1930.9	1902.8	1874.3	1836.5	1796.8	1741.2	1688.0	1658.0
12.5°	2037.8	2037.8	2028.6	2003.0	1977.8	1937.7	1892.7	1839.9	1780.9	1711.7	1673.4
15°	2104.6	2107.0	2100.3	2083.8	2052.4	2015.1	1953.1	1892.2	1813.8	1734.4	1686.5
17.5°	2162.2	2161.7	2155.9	2144.8	2127.4	2089.6	2022.8	1944.0	1852.5	1754.3	1701.0
20°	2199.5	2202.9	2198.0	2203.8	2192.7	2161.2	2094.9	2001.5	1896.0	1778.0	1717.5
22.5°	2233.3	2233.8	2237.7	2244.0	2245.0	2230.9	2176.2	2070.3	1942.5	1805.5	1733.0
25°	2291.9	2289.0	2289.5	2289.5	2299.6	2300.1	2255.1	2154.0	2002.0	1841.8	1759.1
27.5°	2400.3	2395.9	2374.2	2358.7	2358.7	2370.8	2343.2	2241.1	2067.8	1877.7	1783.8
30°	2572.1	2563.4	2519.3	2463.2	2443.4	2455.0	2434.2	2337.9	2137.0	1922.2	1808.9
32.5°	2731.3	2729.9	2687.3	2617.1	2570.6	2555.2	2536.8	2443.4	2223.7	1968.6	1845.2
35°	2885.2	2882.8	2837.8	2799.1	2733.7	2676.6	2638.4	2530.0	2290.0	2012.7	1878.1
37.5°	3104.9	3093.8	3041.0	2994.6	2897.8	2772.0	2729.9	2636.5	2387.7	2074.1	1934.3
40°	3332.8	3321.2	3231.7	3168.8	3066.2	2920.0	2842.1	2758.4	2483.5	2149.1	1998.6
42.5°	3542.9	3527.4	3436.9	3318.3	3205.1	3076.8	2980.5	2873.1	2604.5	2225.1	2062.0
45°	3876.3	3757.2	3648.8	3556.4	3353.6	3229.8	3130.6	3022.2	2733.7	2312.7	2138.0
47.5°	3817.7	3794.0	3788.7	3788.2	3502.2	3395.8	3290.7	3162.0	2864.4	2397.4	2210.6
50°	3975.5	3943.6	4004.1	3921.3	3644.5	3562.2	3452.9	3311.1	2996.0	2475.3	2281.7
52.5°	4124.6	4129.4	4113.4	3963.9	3806.6	3716.1	3629.0	3466.4	3117.0	2553.7	2343.7
55°	4354.9	4308.0	4261.0	4117.3	3974.0	3873.9	3813.4	3609.2	3224.9	2619.5	2388.2
57°	4446.4	4383.5	4345.2	4201.5	4108.6	4026.3	3941.1	3722.9	3292.2	2647.6	2407.6
57.5°	4443.5	4385.4	4361.7	4209.2	4130.8	4059.2	3962.0	3741.3	3299.4	2645.7	2403.7
60°	4262.0	4252.3	4340.4	4216.0	4215.0	4196.7	4085.8	3816.8	3316.4	2617.6	2362.1
62.5°	3887.4	3929.5	4106.2	4157.0	4278.4	4318.1	4141.0	3791.1	3240.9	2511.1	2255.1
65°	3427.2	3506.6	3724.3	3964.4	4268.8	4390.2	4129.9	3655.6	3061.8	2318.5	2053.8
67.5°	2901.2	2975.7	3228.8	3601.4	4104.2	4278.0	3985.7	3400.6	2770.0	2056.2	1795.4
70°	2340.3	2396.9	2606.9	3044.9	3699.2	3949.4	3601.9	3016.3	2364.5	1737.3	1491.0
72.5°	1782.3	1804.1	2001.1	2413.9	3043.9	3355.6	2996.5	2479.2	1955.1	1392.3	1199.2
75°	1293.1	1315.3	1482.3	1735.4	2214.0	2612.7	2335.0	1926.5	1488.6	1060.8	920.0
77.5°	923.8	948.0	1040.9	1187.6	1514.7	1854.9	1657.0	1406.8	1026.4	694.9	637.8
80°	656.2	665.9	763.2	819.8	983.3	1194.8	1139.7	970.8	657.2	464.6	426.8
82.5°	452.5	460.2	542.0	571.0	635.4	756.4	756.4	661.5	416.7	302.9	289.4
85°	267.6	269.1	333.9	361.5	371.7	449.6	462.2	359.6	228.9	137.0	135.5
87.5°	99.7	99.2	152.4	139.4	122.0	137.0	158.7	108.4	78.9	35.3	27.1
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: P1461374

CATALOG NUMBER: USSL-70-8540-U-T4W

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3	1648.3
2.5°	1639.1	1627.9	1620.7	1608.6	1598.4	1586.3	1582.9	1572.3	1570.8	1567.9
5°	1631.3	1605.2	1580.0	1557.8	1541.8	1526.3	1518.1	1508.4	1502.6	1506.0
7.5°	1629.4	1589.7	1549.1	1519.5	1496.3	1473.1	1463.9	1459.1	1459.1	1463.9
10°	1632.8	1577.1	1526.3	1485.2	1456.2	1435.3	1425.7	1421.8	1427.6	1429.5
12.5°	1639.1	1571.3	1509.4	1459.5	1428.1	1406.3	1404.4	1407.3	1415.0	1418.4
15°	1642.9	1560.2	1487.6	1430.5	1402.9	1391.3	1389.4	1400.0	1416.5	1421.8
17.5°	1652.6	1547.6	1459.5	1405.3	1380.2	1378.7	1384.5	1395.7	1416.5	1420.3
20°	1652.1	1530.7	1432.0	1374.4	1362.3	1367.1	1378.2	1393.2	1414.5	1421.3
22.5°	1660.9	1510.4	1402.0	1343.4	1338.1	1354.5	1371.0	1385.5	1411.1	1418.9
25°	1673.0	1493.4	1366.6	1310.0	1311.9	1333.2	1357.4	1375.8	1401.0	1407.8
27.5°	1685.1	1477.4	1328.9	1268.9	1272.7	1303.2	1340.5	1360.8	1384.5	1396.6
30°	1700.1	1459.5	1289.2	1223.4	1228.7	1265.5	1307.6	1335.2	1361.8	1372.9
32.5°	1717.0	1444.5	1249.0	1175.0	1176.4	1223.4	1279.0	1310.0	1331.3	1344.4
35°	1738.8	1432.4	1209.8	1121.8	1122.2	1174.5	1242.3	1279.0	1297.9	1312.4
37.5°	1782.8	1429.5	1173.5	1071.4	1070.0	1132.4	1202.1	1244.2	1260.2	1272.3
40°	1832.2	1427.6	1135.3	1021.1	1021.6	1086.9	1160.5	1204.5	1216.1	1227.7
42.5°	1886.4	1422.8	1094.7	974.2	977.1	1044.3	1120.3	1162.9	1172.1	1181.8
45°	1941.1	1412.6	1047.2	930.6	933.0	1002.7	1075.3	1116.9	1124.2	1134.3
47.5°	1993.3	1391.8	1002.7	889.0	899.6	959.2	1024.5	1058.8	1063.2	1074.8
50°	2041.7	1362.3	956.7	855.6	861.4	911.7	968.8	995.0	997.9	1003.2
52.5°	2081.4	1319.2	904.5	819.8	824.1	862.9	913.2	935.4	933.0	935.9
55°	2095.4	1258.7	855.6	783.5	783.0	811.1	857.5	882.7	879.3	878.3
57°	2084.8	1198.2	817.8	755.4	753.5	772.8	812.0	833.8	837.2	840.1
57.5°	2074.6	1183.2	806.2	748.2	745.7	763.6	801.4	822.2	827.5	827.0
60°	1996.2	1087.9	756.4	716.2	706.1	718.2	749.6	766.1	766.1	769.9
62.5°	1853.9	981.4	713.3	679.0	660.1	674.1	699.8	712.3	703.6	706.1
65°	1652.1	873.0	670.2	638.3	614.1	631.5	656.7	672.7	664.9	663.5
67.5°	1420.3	772.8	624.3	591.4	573.9	591.4	623.3	655.7	656.2	655.7
70°	1176.9	685.2	574.9	543.0	528.0	549.7	594.8	643.1	646.0	643.6
72.5°	950.9	609.3	522.6	493.6	481.5	510.1	563.3	619.4	623.3	624.8
75°	751.1	540.1	463.6	442.3	436.0	465.5	525.1	584.1	576.4	581.2
77.5°	536.7	457.8	401.2	386.7	383.8	406.0	464.1	503.8	492.6	492.2
80°	383.3	376.5	336.8	328.6	323.3	339.2	381.8	418.1	407.0	398.3
82.5°	296.2	295.2	275.8	250.2	244.9	274.4	310.7	325.7	236.6	239.1
85°	178.6	186.3	164.5	166.0	178.6	196.5	216.3	226.0	113.2	89.5
87.5°	41.6	43.1	51.3	62.4	64.8	76.0	104.0	124.9	50.3	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)