

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: P1461946

Luminaire Tested: USSL-70-8540-U-T2RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461946
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T2RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7373.4 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

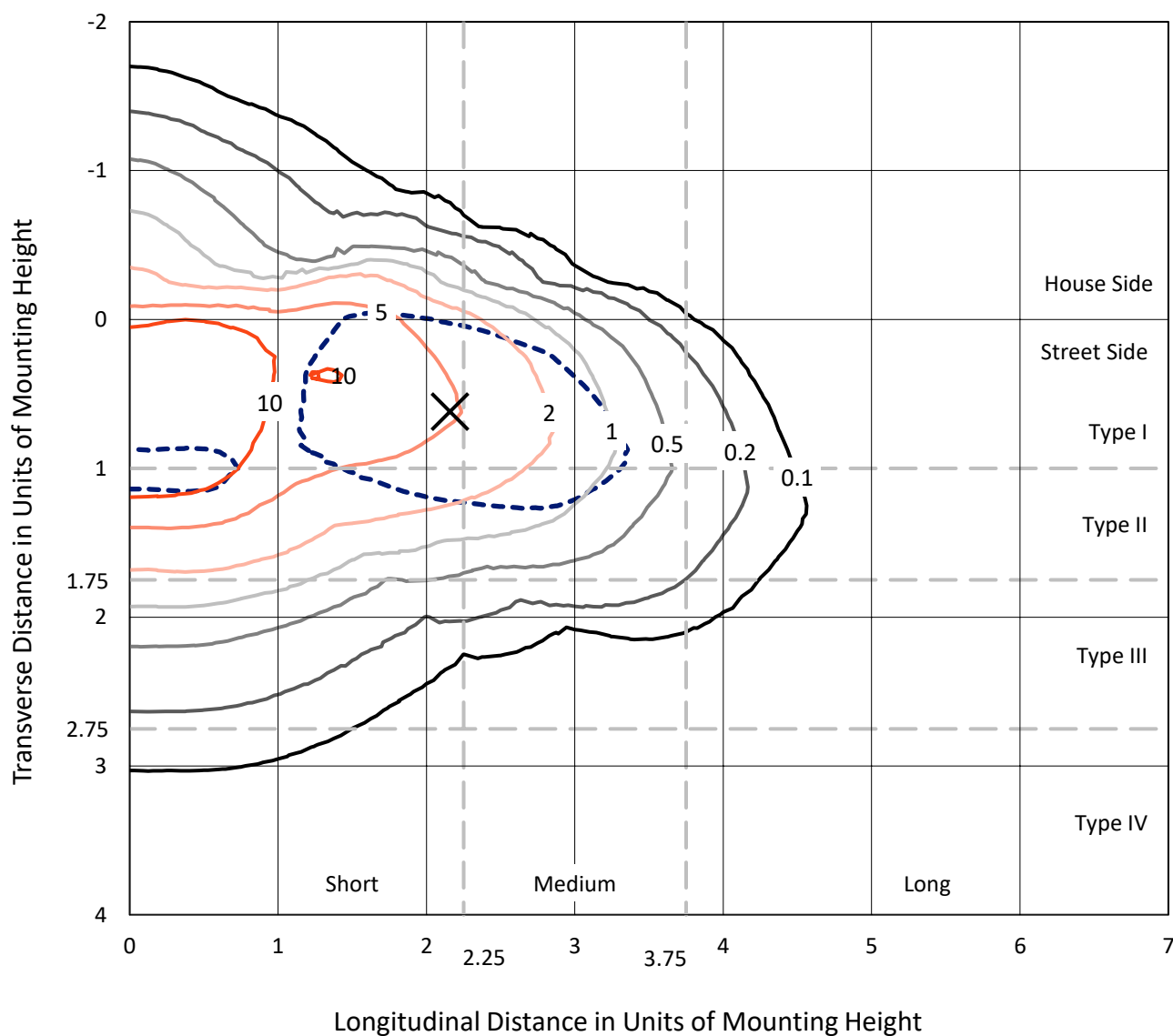
REPORT NUMBER: P1461946

CATALOG NUMBER: USSL-70-8540-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

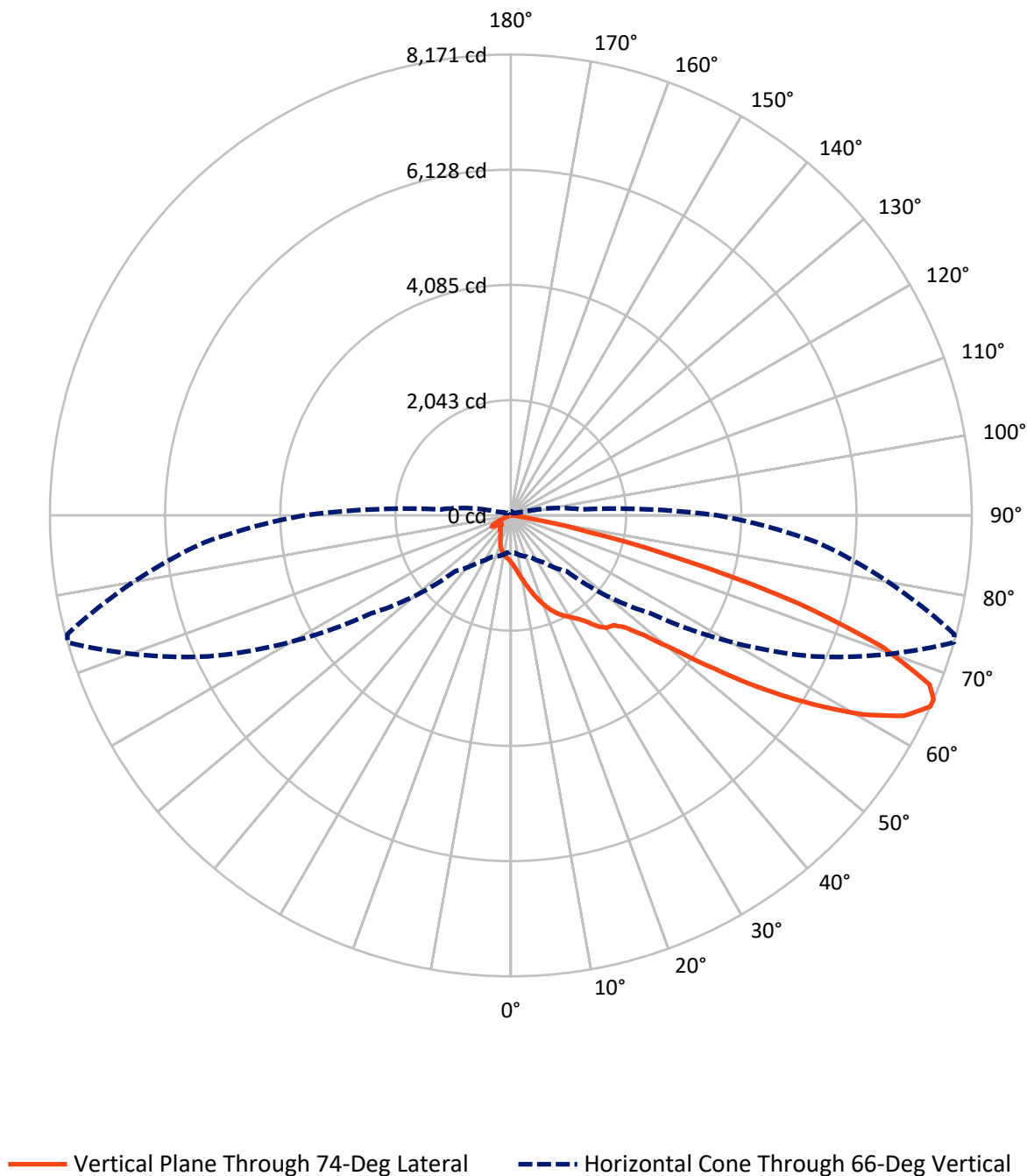


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
Type II - Short - N/A

REPORT NUMBER: P1461946

CATALOG NUMBER: USSL-70-8540-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1461946

CATALOG NUMBER: USSL-70-8540-U-T2RE-HSS

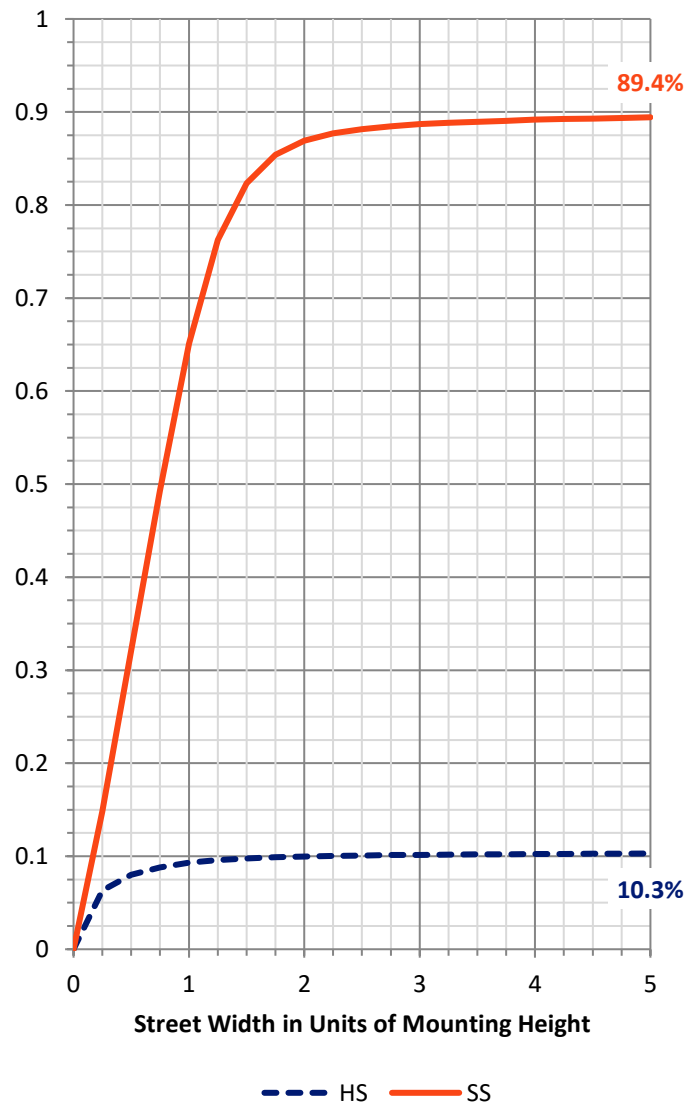
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.7	0.0	765.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6607.7	0.0	6607.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	7373.4	0.0	7373.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.1
10°-20°	266.4	3.6
20°-30°	507.7	6.9
30°-40°	892.8	12.1
40°-50°	1451.3	19.7
50°-60°	1873.5	25.4
60°-70°	1665.0	22.6
70°-80°	585.7	7.9
80°-90°	49.1	0.7
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°	7373.4	100.0
0°-180°	7373.4	100.0

Coefficient of Utilization



REPORT NUMBER: P1461946

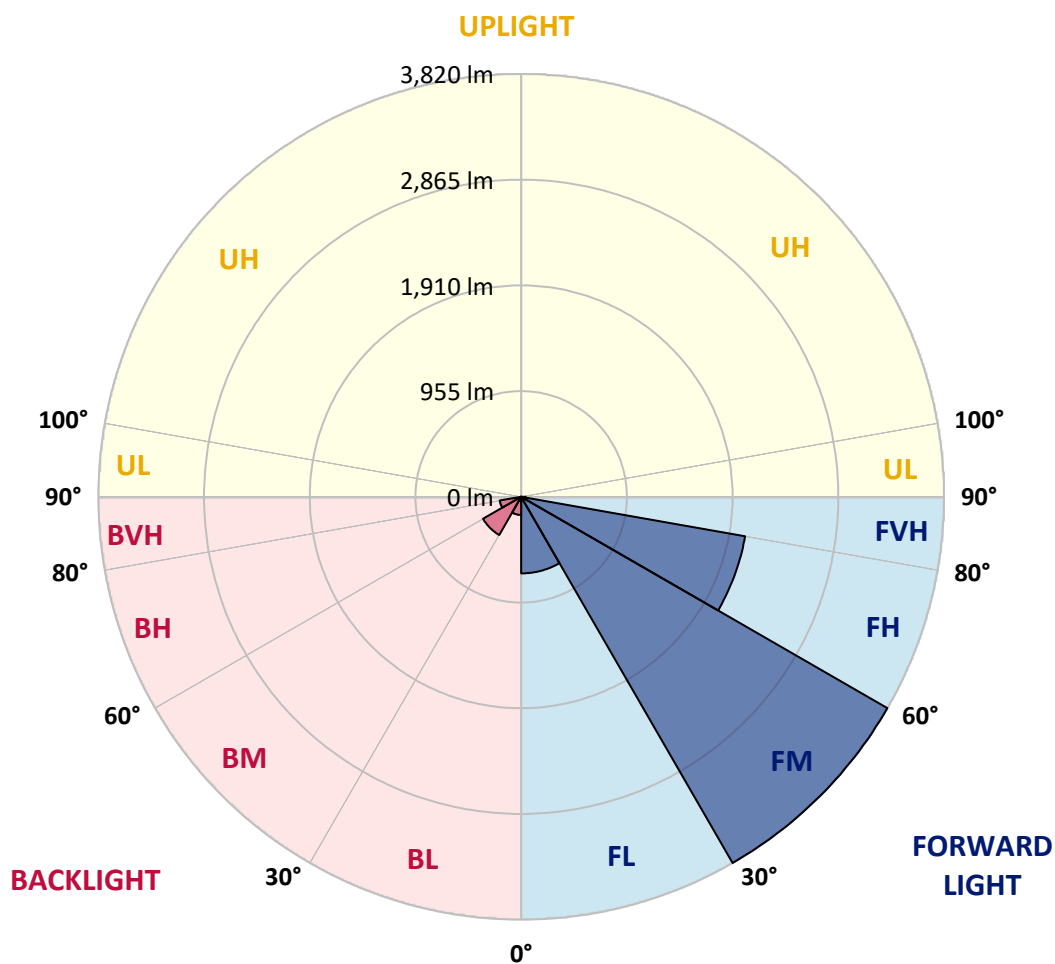
CATALOG NUMBER: USSL-70-8540-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.1	9.4			
FM	(30°-60°)	3820.3	51.8			
FH	(60°-80°)	2054.3	27.9			G2/5000
FVH	(80°-90°)	41.0	0.6			G1/100
BL	(0°-30°)	163.9	2.2	B1/500		
BM	(30°-60°)	397.4	5.4	B1/1000		
BH	(60°-80°)	196.4	2.7	B1/500		G1/500
BVH	(80°-90°)	8.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P1461946

CATALOG NUMBER: USSL-70-8540-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2
2.5°	1024.7	1026.7	1014.1	1004.4	987.5	968.6	945.4	914.9	883.9	884.4	854.9
5°	1216.8	1218.3	1209.1	1190.2	1168.9	1130.7	1081.3	1021.3	958.4	957.5	891.2
7.5°	1271.5	1264.7	1269.1	1275.3	1276.3	1263.2	1226.0	1138.9	1050.9	1039.2	946.8
10°	1296.1	1287.9	1287.0	1291.8	1308.7	1332.4	1331.5	1269.5	1163.1	1153.4	1012.6
12.5°	1392.4	1390.5	1387.6	1376.9	1370.7	1377.4	1413.7	1394.4	1286.0	1276.8	1098.3
15°	1511.4	1501.3	1500.8	1495.0	1481.0	1458.7	1477.1	1513.4	1420.0	1407.4	1185.8
17.5°	1611.6	1597.6	1601.4	1608.7	1596.6	1575.8	1562.7	1608.7	1559.3	1547.3	1283.1
20°	1687.6	1679.8	1694.8	1713.7	1715.1	1696.8	1672.1	1698.2	1695.8	1681.8	1391.0
22.5°	1745.6	1735.9	1758.2	1796.9	1828.8	1822.1	1788.7	1778.0	1818.7	1814.3	1494.0
25°	1780.5	1770.8	1804.6	1864.6	1932.4	1953.2	1917.9	1874.3	1925.1	1929.5	1587.9
27.5°	1854.5	1847.7	1875.8	1935.3	2014.1	2074.1	2049.5	1970.6	2016.6	2023.3	1679.3
30°	2072.2	2039.3	2060.6	2079.5	2121.1	2188.3	2177.7	2065.9	2092.0	2109.9	1768.4
32.5°	2429.3	2390.5	2365.9	2335.9	2305.4	2325.7	2323.8	2182.0	2185.9	2202.3	1862.2
35°	2904.8	2883.1	2783.9	2662.9	2566.7	2514.9	2507.1	2345.6	2311.7	2333.5	1966.2
37.5°	3407.0	3383.3	3266.7	3066.4	2882.1	2729.2	2704.5	2573.4	2492.6	2508.6	2074.6
40°	3890.4	3828.9	3727.8	3503.3	3200.0	2928.6	2818.7	2662.5	2617.5	2636.8	2153.5
42.5°	4252.8	4219.4	4118.3	3903.4	3537.7	3124.5	2932.9	2707.4	2661.5	2698.7	2190.2
45°	4444.4	4408.1	4366.9	4248.9	3819.7	3347.5	3108.0	2876.8	2825.0	2862.8	2302.0
47.5°	4303.1	4293.4	4422.1	4454.0	4054.9	3540.6	3309.3	3147.2	3163.7	3177.7	2557.5
50°	3768.5	3820.2	4093.6	4347.6	4165.2	3730.7	3559.5	3544.0	3698.8	3740.9	3088.7
52.5°	3073.2	3078.5	3442.4	3941.2	3968.8	3796.5	3814.4	4060.7	4511.1	4509.7	3766.5
55°	2303.0	2384.3	2779.1	3283.2	3435.6	3628.2	4059.7	4726.4	5430.9	5420.7	4449.2
57.5°	1763.0	1772.2	2184.4	2666.3	2844.4	3222.7	4136.6	5455.5	6321.6	6304.2	5108.6
60°	1356.1	1360.5	1660.5	2055.7	2402.2	2669.7	4013.8	6062.7	7161.0	7148.4	5515.0
62.5°	1012.1	1026.7	1201.8	1410.8	1884.0	2210.1	3699.3	6330.8	7822.4	7791.9	5651.0
65°	749.9	750.9	842.8	954.1	1249.7	1639.2	3245.0	6169.6	8170.2	8134.0	5546.5
66°	648.8	660.9	740.2	812.3	1016.5	1396.3	3031.6	5919.0	8170.7	8137.8	5443.0
67.5°	545.7	550.6	609.6	660.4	760.6	989.9	2609.7	5523.3	8001.4	7926.9	5185.1
70°	399.2	410.3	448.5	468.3	481.4	573.8	1705.0	4662.6	6997.5	6950.5	4435.2
72.5°	290.8	294.6	330.0	343.0	345.4	373.0	866.5	3697.8	5344.7	5322.5	3048.5
75°	224.5	228.4	244.3	243.8	247.2	259.3	397.7	2268.1	3158.8	3176.8	1463.6
77.5°	180.9	186.8	191.6	178.0	179.0	181.9	237.1	969.1	1395.3	1320.3	397.7
80°	135.5	136.4	144.7	131.6	125.3	122.9	150.0	335.3	393.8	374.0	145.1
82.5°	105.5	101.1	103.5	95.8	87.1	83.2	101.1	141.3	156.8	155.3	100.6
85°	70.6	69.2	63.9	60.5	54.2	50.3	66.3	79.8	96.8	100.2	75.0
87.5°	31.9	31.9	32.9	30.0	27.6	25.2	32.9	43.1	49.8	49.8	28.5
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: P1461946

CATALOG NUMBER: USSL-70-8540-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2	832.2
2.5°	840.9	824.4	795.9	767.3	742.2	717.5	690.4	676.4	664.8	661.9	654.6
5°	862.6	831.2	768.3	705.4	643.5	598.0	552.0	517.7	493.0	485.8	480.4
7.5°	897.0	848.6	746.5	640.6	552.5	478.5	420.0	386.1	367.7	356.6	353.7
10°	945.4	873.8	721.4	574.8	456.2	374.5	333.4	314.0	301.4	298.5	299.0
12.5°	1004.4	906.2	696.7	501.7	375.4	313.5	289.8	282.1	280.6	279.2	279.2
15°	1070.2	936.2	663.3	434.0	312.5	274.8	268.0	266.1	264.6	264.6	265.1
17.5°	1133.6	961.8	623.2	371.6	272.4	256.4	251.1	249.7	250.1	249.7	249.2
20°	1200.8	982.2	572.8	316.9	251.6	239.5	233.2	232.7	233.2	233.7	233.2
22.5°	1259.4	992.3	521.1	275.3	235.1	223.0	217.2	216.8	216.3	216.8	216.8
25°	1314.1	994.2	468.8	249.7	219.2	208.0	202.2	201.8	202.2	203.7	203.7
27.5°	1364.4	995.7	420.4	232.7	205.1	193.5	189.2	189.7	192.6	194.5	194.5
30°	1414.7	1003.4	382.2	216.8	191.6	181.4	177.6	180.5	185.3	189.7	190.1
32.5°	1470.8	1018.0	355.1	204.7	179.5	171.8	169.8	175.1	183.4	189.7	190.6
35°	1537.1	1035.4	341.1	195.0	170.8	163.0	165.0	173.2	183.4	189.7	191.1
37.5°	1599.0	1055.2	332.4	186.8	162.6	155.8	160.1	171.3	181.9	188.7	189.7
40°	1640.1	1056.2	313.0	177.1	154.8	148.5	155.3	166.4	177.1	186.3	187.2
42.5°	1662.4	1046.0	280.1	167.9	148.0	141.8	148.5	155.8	167.9	180.9	183.4
45°	1777.1	1087.1	255.0	158.2	142.7	136.0	137.9	141.8	155.3	169.8	172.2
47.5°	2064.0	1239.5	237.1	149.5	135.5	129.2	125.3	128.7	140.3	153.9	155.3
50°	2583.1	1552.1	230.3	142.2	128.7	119.5	113.7	116.1	122.4	132.6	135.5
52.5°	3333.0	2064.0	250.1	135.5	121.0	110.8	102.6	99.7	106.0	113.7	114.2
55°	4059.2	2503.3	304.8	129.2	111.8	102.6	92.9	86.1	90.0	94.3	96.3
57.5°	4645.6	2707.4	376.9	127.7	101.1	94.3	82.2	73.5	76.9	80.8	81.8
60°	4663.5	2482.5	420.0	127.7	95.8	85.6	72.6	65.3	70.2	74.0	74.5
62.5°	4300.2	1954.1	380.3	119.0	85.6	74.0	66.8	60.5	66.8	72.1	73.1
65°	3824.6	1413.2	276.3	105.5	74.5	62.9	61.4	58.1	65.8	72.1	73.5
66°	3661.5	1232.3	228.8	99.2	70.2	59.5	59.0	58.1	65.3	71.6	73.1
67.5°	3285.1	948.3	169.3	88.1	63.9	55.2	55.6	56.6	63.4	68.7	70.6
70°	2379.9	559.8	108.9	67.7	56.6	50.3	49.8	52.3	57.1	60.5	61.0
72.5°	1463.1	279.2	79.8	50.3	50.3	48.4	44.0	46.0	49.8	51.8	51.8
75°	656.1	140.3	58.5	39.2	43.5	45.0	37.7	40.2	42.1	44.0	44.0
77.5°	177.6	85.6	45.5	32.4	38.7	39.7	31.9	34.4	35.8	38.7	38.2
80°	98.2	67.3	32.9	26.6	30.0	34.4	27.6	30.0	28.1	26.1	30.5
82.5°	81.3	46.0	22.3	20.8	22.3	27.6	22.3	20.8	17.4	10.2	11.6
85°	56.1	25.2	11.6	11.1	12.1	16.4	14.0	10.6	7.3	1.9	3.4
87.5°	16.4	6.8	4.8	4.4	4.8	5.8	4.4	4.4	2.4	0.0	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)