

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: P1461532

Luminaire Tested: USSL-150-8540-U-T2R-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461532
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T2R-HSS
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY 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: 13069.5 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

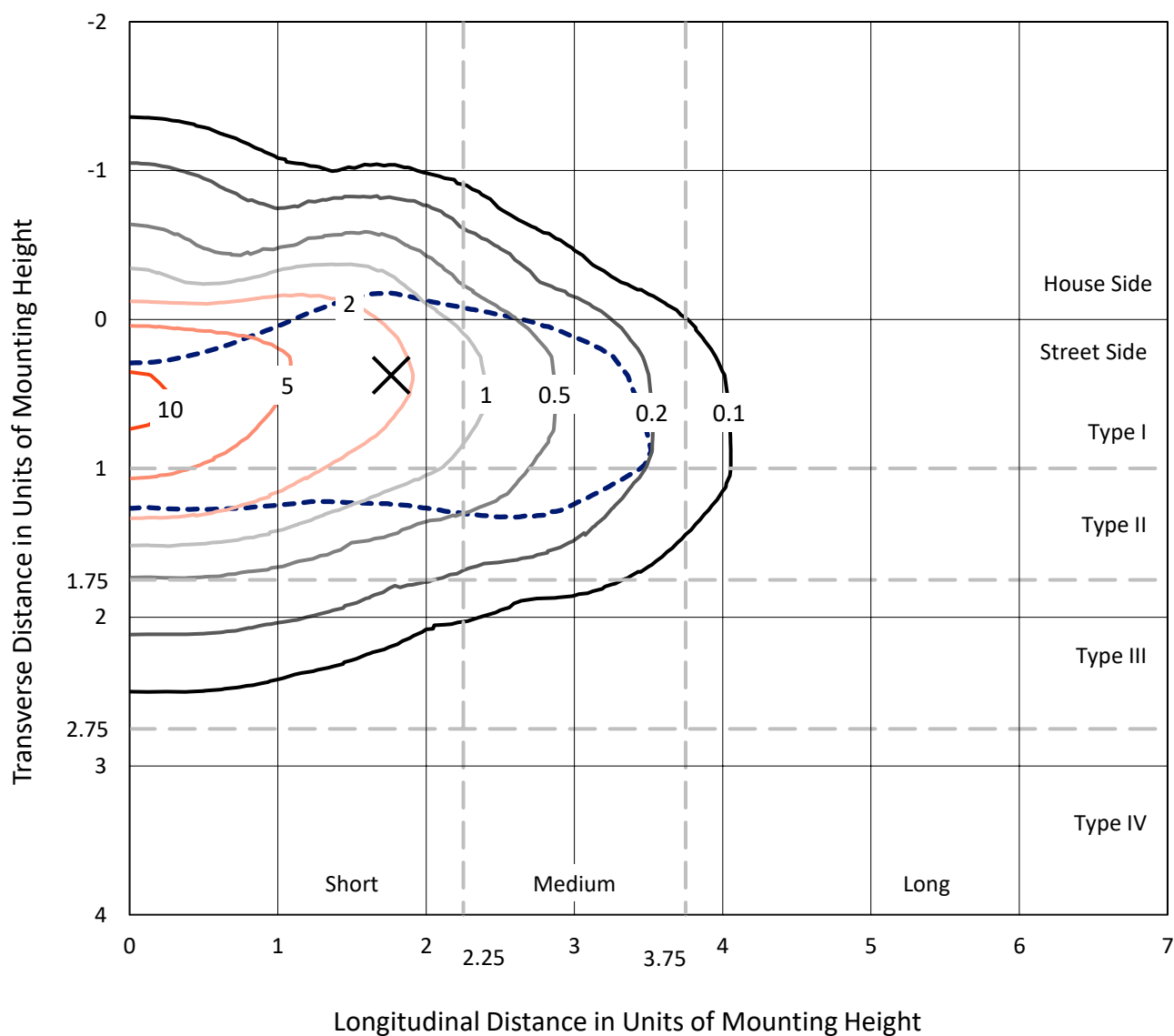
REPORT NUMBER: P1461532

CATALOG NUMBER: USSL-150-8540-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

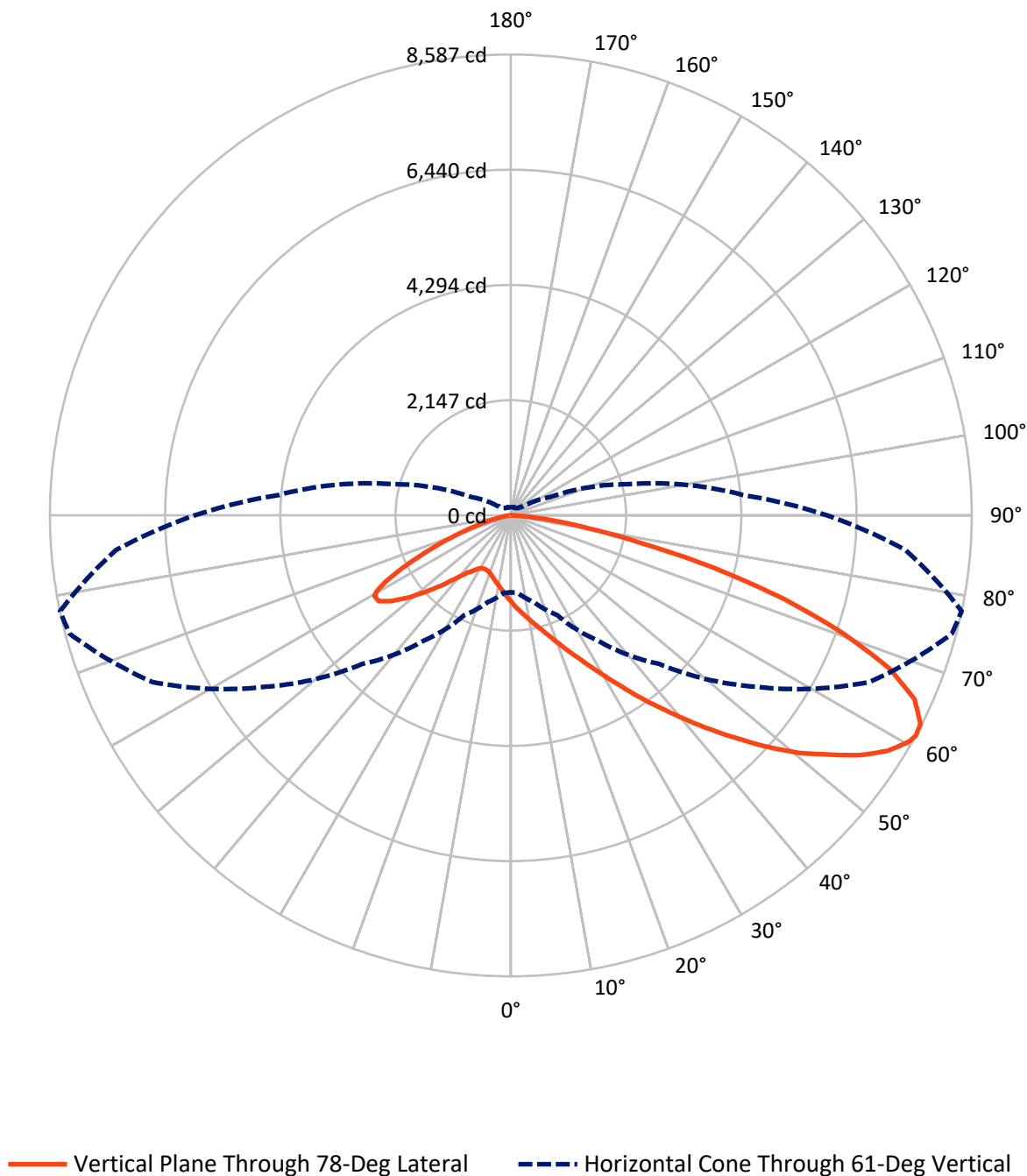


Based on 20 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P1461532

CATALOG NUMBER: USSL-150-8540-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1461532

CATALOG NUMBER: USSL-150-8540-U-T2R-HSS

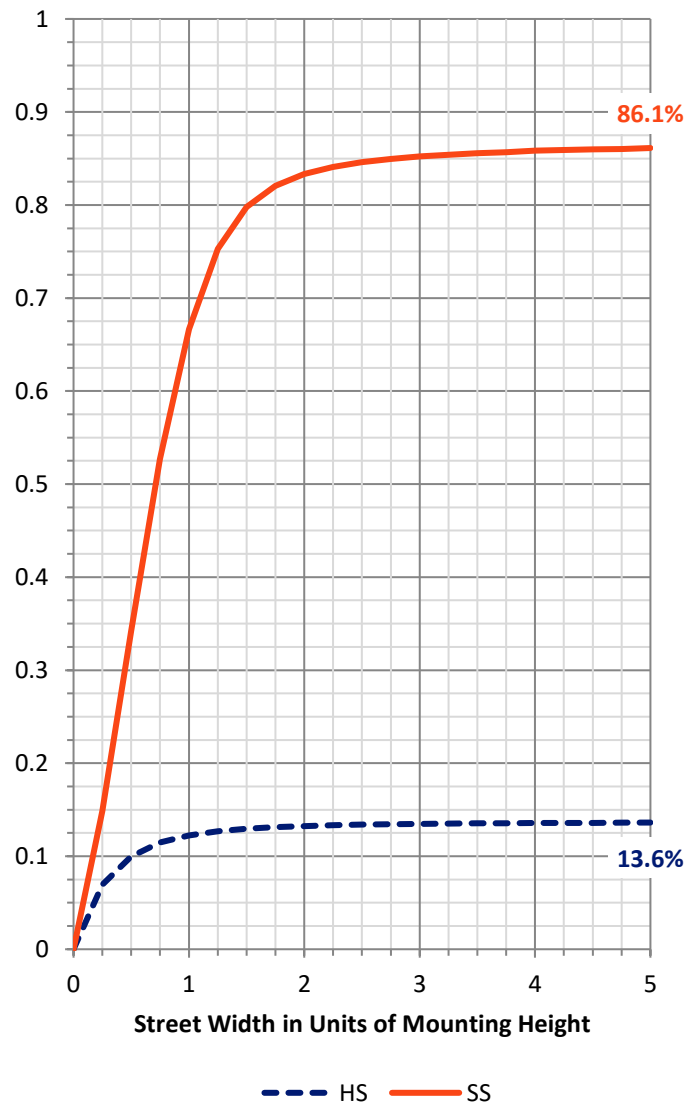
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1793.7	0.0	1793.7
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	11275.8	0.0	11275.8
	% Fixture	86.3	0.0	86.3
Total	Lumens	13069.5	0.0	13069.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	1.2
10°-20°	582.1	4.5
20°-30°	1204.1	9.2
30°-40°	2071.4	15.8
40°-50°	2791.1	21.4
50°-60°	2889.8	22.1
60°-70°	2245.8	17.2
70°-80°	984.6	7.5
80°-90°	137.3	1.1
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°	13069.5	100.0
0°-180°	13069.5	100.0

Coefficient of Utilization



REPORT NUMBER: P1461532

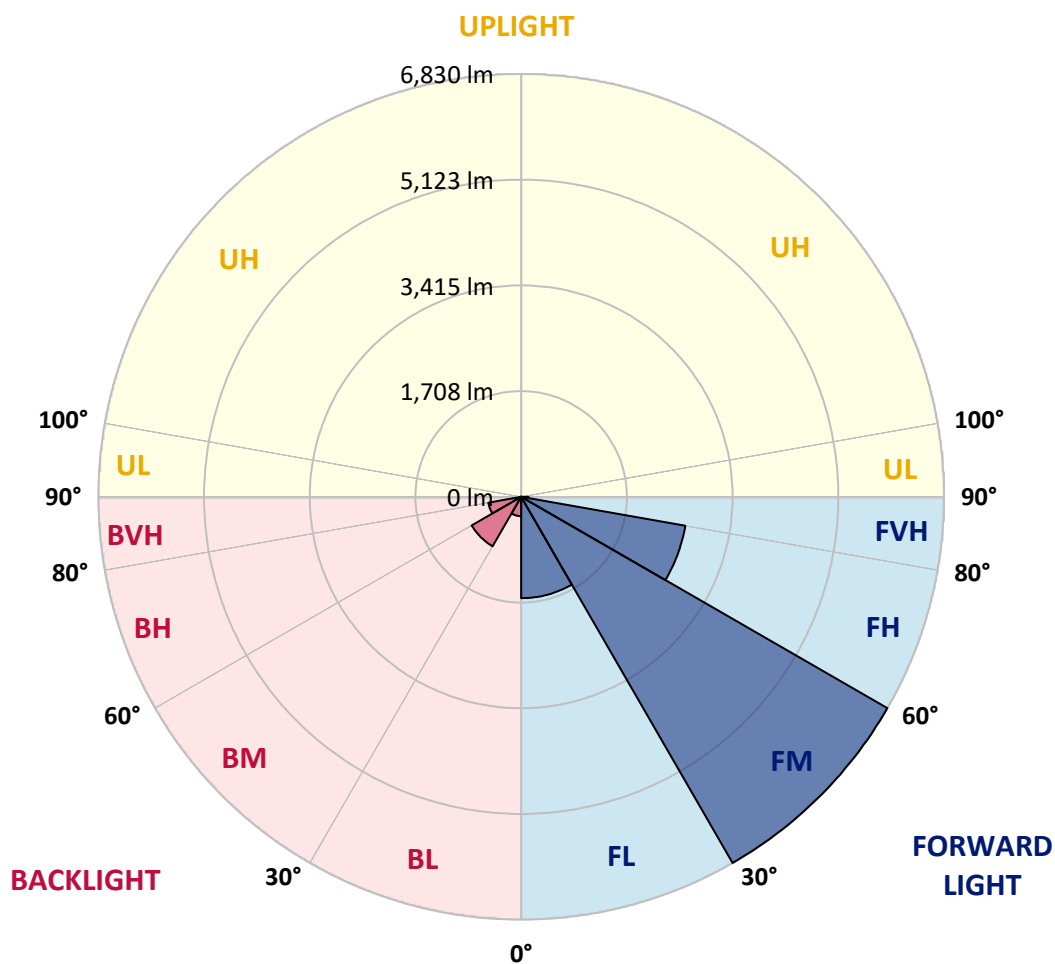
CATALOG NUMBER: USSL-150-8540-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.5	12.5			
FM	(30°-60°)	6830.1	52.3			
FH	(60°-80°)	2692.2	20.6			G2/5000
FVH	(80°-90°)	116.0	0.9			G2/225
BL	(0°-30°)	312.0	2.4	B1/500		
BM	(30°-60°)	922.1	7.1	B1/1000		
BH	(60°-80°)	538.2	4.1	B2/1000		G2/1000
BVH	(80°-90°)	21.3	0.2			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 II Short



REPORT NUMBER: P1461532

CATALOG NUMBER: USSL-150-8540-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	2042.4	2017.0	2036.3	1996.8	1959.9	1915.1	1864.1	1797.3	1727.9	1704.2	1655.0
5°	2426.3	2441.3	2428.1	2378.0	2305.1	2185.6	2095.1	1966.9	1839.5	1789.4	1694.6
7.5°	2878.7	2867.3	2839.2	2767.2	2651.2	2515.0	2346.4	2162.8	1951.9	1884.3	1738.5
10°	3272.3	3245.0	3217.8	3129.1	2990.3	2834.8	2608.2	2349.9	2082.0	1989.7	1786.8
12.5°	3656.2	3666.7	3607.9	3513.0	3342.6	3143.1	2873.5	2566.9	2216.4	2100.4	1843.9
15°	4111.2	4083.1	4026.9	3886.3	3696.6	3464.7	3157.2	2794.4	2368.3	2227.8	1911.5
17.5°	4510.0	4489.0	4440.6	4292.2	4078.7	3795.8	3437.4	3030.7	2533.5	2371.9	1992.4
20°	4889.5	4877.2	4813.1	4673.4	4477.5	4154.3	3764.2	3309.2	2725.0	2544.0	2087.2
22.5°	5285.7	5270.8	5193.5	5042.4	4832.4	4537.3	4102.4	3593.8	2964.8	2739.9	2198.8
25°	5640.6	5663.5	5553.7	5410.5	5184.7	4879.9	4464.4	3903.9	3197.6	2951.6	2345.5
27.5°	6200.2	6134.3	5998.2	5785.6	5536.1	5242.7	4816.6	4224.5	3473.4	3196.7	2494.0
30°	6794.0	6754.5	6585.0	6251.2	5862.0	5536.1	5147.8	4601.4	3772.1	3484.9	2700.4
32.5°	7292.1	7271.9	7105.0	6785.3	6305.6	5826.0	5479.0	4971.2	4112.1	3805.5	2954.3
35°	7611.9	7580.3	7461.7	7218.3	6761.5	6199.3	5818.9	5382.4	4494.2	4178.9	3247.7
37.5°	7753.3	7713.8	7590.8	7406.3	7085.7	6560.4	6121.1	5768.9	4899.2	4559.2	3526.2
40°	7631.2	7617.2	7528.4	7354.5	7210.4	6844.1	6404.0	6133.4	5334.0	4986.2	3921.5
42.5°	7249.1	7223.6	7216.6	7138.4	7123.5	6962.7	6654.4	6474.3	5808.4	5451.8	4340.5
45°	6727.3	6712.3	6777.4	6812.5	6903.9	6942.5	6830.9	6801.1	6287.2	5928.8	4824.5
47.5°	6108.0	6098.3	6229.2	6375.9	6614.0	6803.7	6886.3	7054.1	6753.6	6448.8	5305.0
50°	5084.6	5036.2	5443.0	5812.8	6204.6	6605.2	6833.6	7256.1	7237.7	6952.2	5791.7
52.5°	3929.4	3910.9	4413.4	5040.6	5728.5	6272.2	6704.4	7368.6	7629.5	7401.9	6301.2
55°	2884.0	2898.1	3342.6	4121.8	4958.1	5782.1	6512.1	7396.7	8021.3	7886.0	6780.0
57.5°	2105.7	2155.8	2489.6	3151.9	4077.0	5099.5	6236.2	7389.6	8319.9	8276.9	7167.4
60°	1578.6	1577.7	1889.6	2333.2	3130.8	4299.2	5790.0	7369.4	8493.0	8541.3	7358.9
61°	1431.9	1446.8	1674.4	2048.6	2861.2	3914.4	5566.8	7353.6	8507.9	8587.0	7377.3
62.5°	1239.5	1235.1	1413.4	1712.1	2369.2	3344.3	5168.0	7306.2	8490.4	8565.0	7345.7
65°	997.9	1002.3	1122.7	1294.9	1775.4	2490.4	4335.2	7017.2	8209.3	8263.7	7136.6
67.5°	824.0	834.5	914.5	1027.8	1316.8	1768.3	3318.0	6431.2	7662.0	7602.2	6676.3
70°	674.7	686.1	747.6	823.1	1005.0	1294.0	2436.9	5392.9	6715.0	6550.7	5841.8
72.5°	546.4	546.4	598.2	666.8	770.4	930.3	1684.9	4138.4	5500.1	5306.8	4726.1
75°	434.0	432.2	469.1	503.4	571.0	679.9	1152.5	2846.2	4124.4	3905.7	3367.2
77.5°	299.6	303.9	336.5	370.7	404.1	472.6	765.1	1750.8	2663.5	2482.5	2120.6
80°	221.4	223.1	241.6	260.0	256.5	299.6	482.3	891.6	1482.0	1478.5	1203.5
82.5°	160.8	165.2	172.2	182.7	177.4	195.9	289.9	447.1	784.5	780.1	646.5
85°	102.8	101.9	101.9	108.1	107.2	117.7	157.2	239.8	335.6	348.8	314.5
87.5°	36.9	38.7	44.8	54.5	51.0	48.3	47.4	63.2	57.1	53.6	51.0
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: P1461532

CATALOG NUMBER: USSL-150-8540-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1620.8	1586.5	1515.4	1445.1	1391.5	1330.0	1290.5	1258.8	1221.9	1210.5	1233.4
5°	1626.9	1555.8	1424.9	1297.5	1193.8	1113.0	1035.7	1005.0	954.9	940.8	940.0
7.5°	1636.6	1531.2	1337.0	1166.6	1033.1	925.0	853.0	809.1	779.2	768.7	777.4
10°	1648.0	1508.3	1253.6	1043.6	892.5	799.4	730.0	690.5	672.0	663.2	660.6
12.5°	1670.8	1493.4	1189.4	946.1	789.7	701.0	645.7	613.2	593.0	588.6	584.2
15°	1696.3	1482.8	1121.8	859.1	708.0	625.5	576.3	552.6	535.9	528.0	528.0
17.5°	1730.6	1482.0	1055.9	778.3	641.3	565.7	522.7	503.4	491.9	487.5	486.7
20°	1777.1	1487.2	1002.3	721.2	585.1	515.7	483.2	466.5	459.4	455.0	455.0
22.5°	1843.0	1504.8	956.6	666.8	537.6	476.1	447.1	437.5	431.3	426.9	426.9
25°	1934.4	1544.3	923.3	622.0	498.1	443.6	419.9	409.4	405.0	403.2	402.3
27.5°	2033.6	1592.7	909.2	590.3	463.0	415.5	395.3	384.8	381.3	379.5	379.5
30°	2164.5	1662.1	899.5	567.5	435.7	390.0	371.6	360.2	355.8	355.8	354.9
32.5°	2336.7	1776.3	918.0	549.9	417.3	369.0	348.8	339.1	334.7	333.8	332.9
35°	2566.0	1937.9	961.9	543.8	398.8	348.8	328.5	319.8	315.4	314.5	312.7
37.5°	2770.7	2069.7	1019.0	541.1	382.1	331.2	311.9	302.2	296.9	295.2	296.0
40°	3069.4	2279.6	1095.4	546.4	367.2	313.6	296.0	286.4	281.1	279.4	278.5
42.5°	3403.2	2544.9	1212.3	567.5	357.5	297.8	282.0	271.4	267.1	265.3	264.4
45°	3798.5	2856.8	1368.6	597.4	350.5	285.5	267.1	258.3	253.9	251.2	251.2
47.5°	4212.2	3185.3	1530.3	635.1	345.2	275.8	253.9	245.1	239.8	237.2	235.4
50°	4669.9	3520.9	1719.2	676.4	340.8	266.2	240.7	229.3	224.0	218.7	218.7
52.5°	5112.7	3904.8	1915.1	723.9	337.3	250.4	225.8	213.5	204.7	199.4	198.5
55°	5536.1	4254.4	2101.3	767.8	333.8	237.2	209.1	194.1	186.2	182.7	183.6
57.5°	5868.1	4503.0	2263.8	804.7	325.9	222.3	190.6	177.4	171.3	173.9	171.3
60°	5955.1	4470.5	2298.1	811.7	311.0	203.8	172.2	164.3	162.5	158.1	158.1
61°	5891.0	4347.5	2238.3	801.2	303.9	195.0	166.9	160.8	158.1	153.7	153.7
62.5°	5721.4	4032.2	2071.4	766.0	289.9	182.7	159.0	154.6	151.1	146.7	147.6
65°	5332.3	3386.5	1625.2	662.4	260.0	165.2	145.8	143.2	138.8	135.3	132.6
67.5°	4755.1	2738.2	1167.5	530.6	228.4	149.3	130.9	127.4	123.0	118.6	116.8
70°	4099.8	2119.7	791.5	409.4	195.9	131.8	115.1	108.9	105.4	101.9	100.1
72.5°	3281.9	1594.4	499.8	302.2	162.5	110.7	94.0	90.5	87.0	84.3	83.5
75°	2406.1	1113.9	333.8	225.8	130.9	89.6	75.5	68.5	66.8	65.0	62.4
77.5°	1435.4	625.5	216.1	164.3	103.7	70.3	58.0	52.7	51.8	49.2	49.2
80°	755.5	332.1	142.3	113.3	73.8	53.6	45.7	42.2	38.7	30.7	25.5
82.5°	427.8	180.1	93.1	71.2	49.2	39.5	34.3	31.6	26.4	7.9	4.4
85°	213.5	91.4	44.8	36.0	23.7	15.8	16.7	13.2	6.1	0.9	0.0
87.5°	38.7	13.2	7.9	7.9	6.1	4.4	3.5	1.8	0.9	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)