

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: P1461427

Luminaire Tested: USSL-110-8540-U-T2U-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461427
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T2U-HSS
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE II URBAN
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: 10253.9 lumens
Efficiency: N/A
Efficacy: 92.4 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): 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

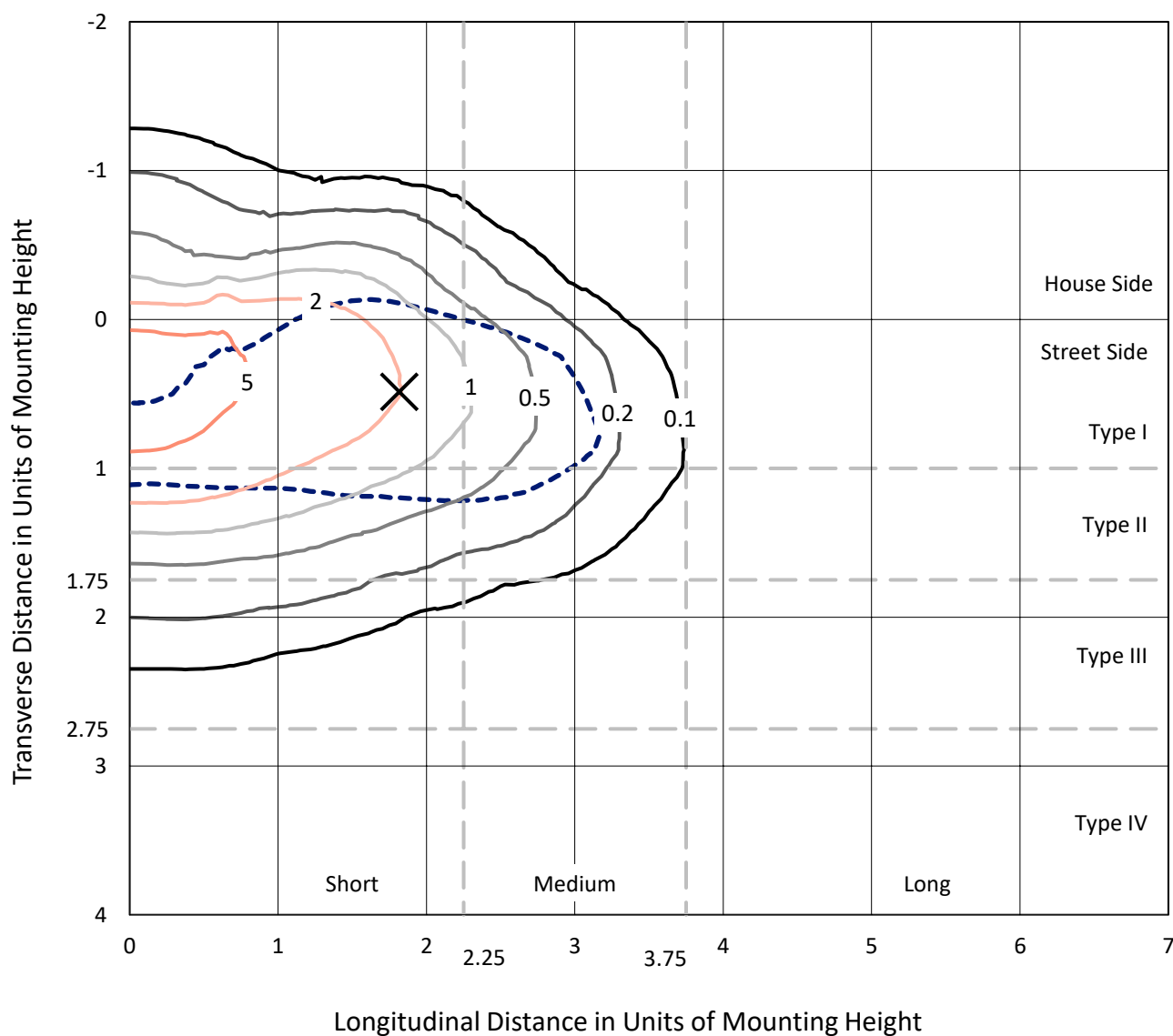
REPORT NUMBER: P1461427

CATALOG NUMBER: USSL-110-8540-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



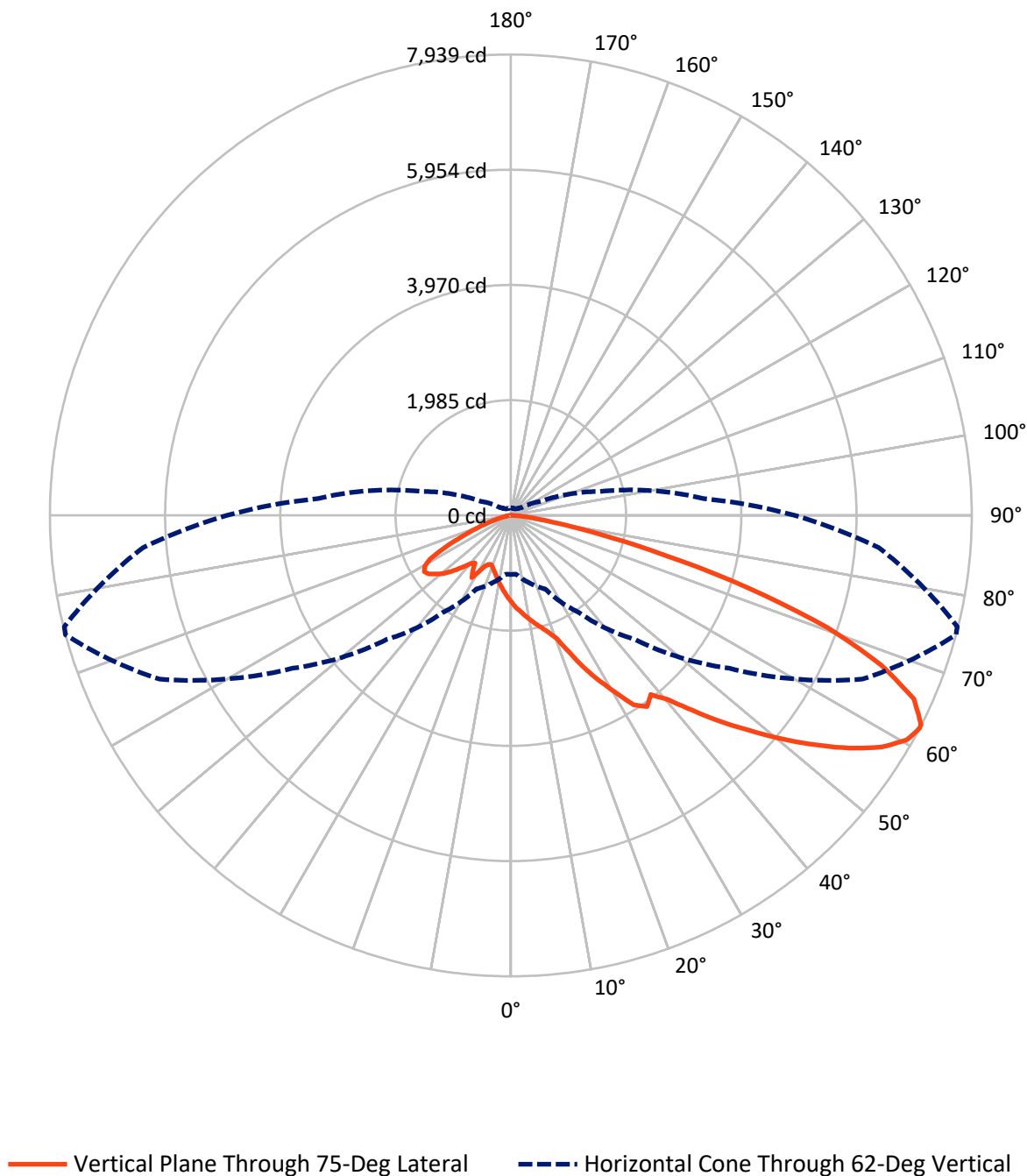
Based on 20 foot mounting height. Maximum calculated value = 7.8 fc

Type II - Short - N/A

REPORT NUMBER: P1461427

CATALOG NUMBER: USSL-110-8540-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1461427

CATALOG NUMBER: USSL-110-8540-U-T2U-HSS

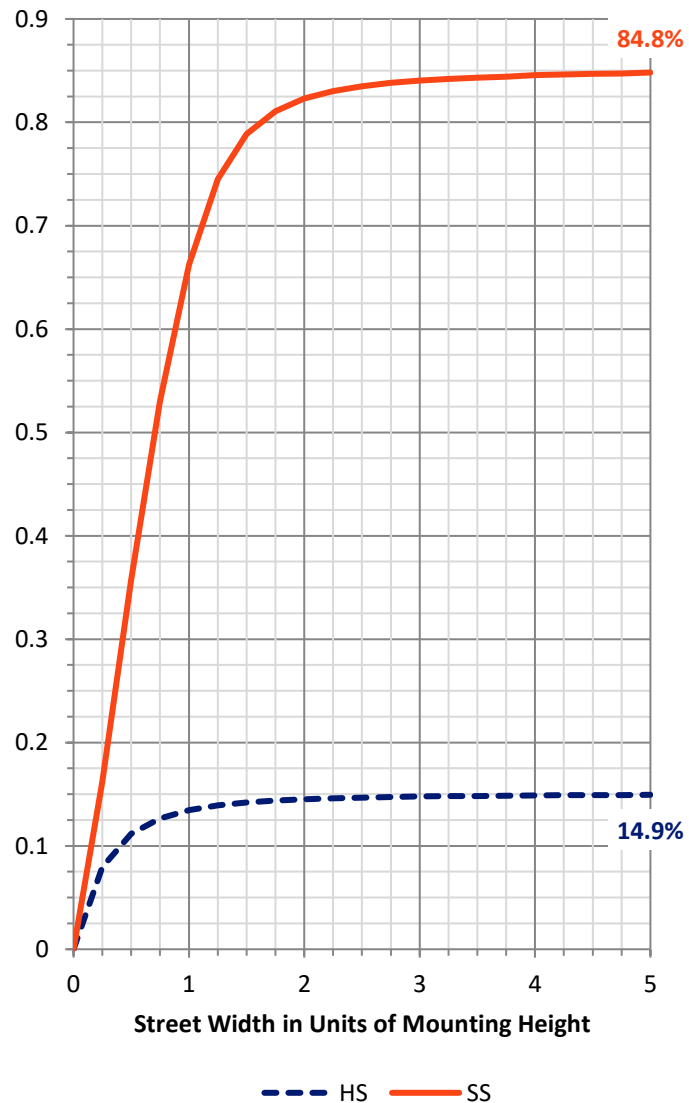
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1545.8	0.0	1545.8
	% Fixture	15.1	0.0	15.1
Street Side	Lumens	8708.1	0.0	8708.1
	% Fixture	84.9	0.0	84.9
Total	Lumens	10253.9	0.0	10253.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.4
10°-20°	496.5	4.8
20°-30°	939.5	9.2
30°-40°	1515.8	14.8
40°-50°	2108.9	20.6
50°-60°	2394.6	23.4
60°-70°	1878.6	18.3
70°-80°	683.6	6.7
80°-90°	89.3	0.9
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°	10253.9	100.0
0°-180°	10253.9	100.0

Coefficient of Utilization



REPORT NUMBER: P1461427

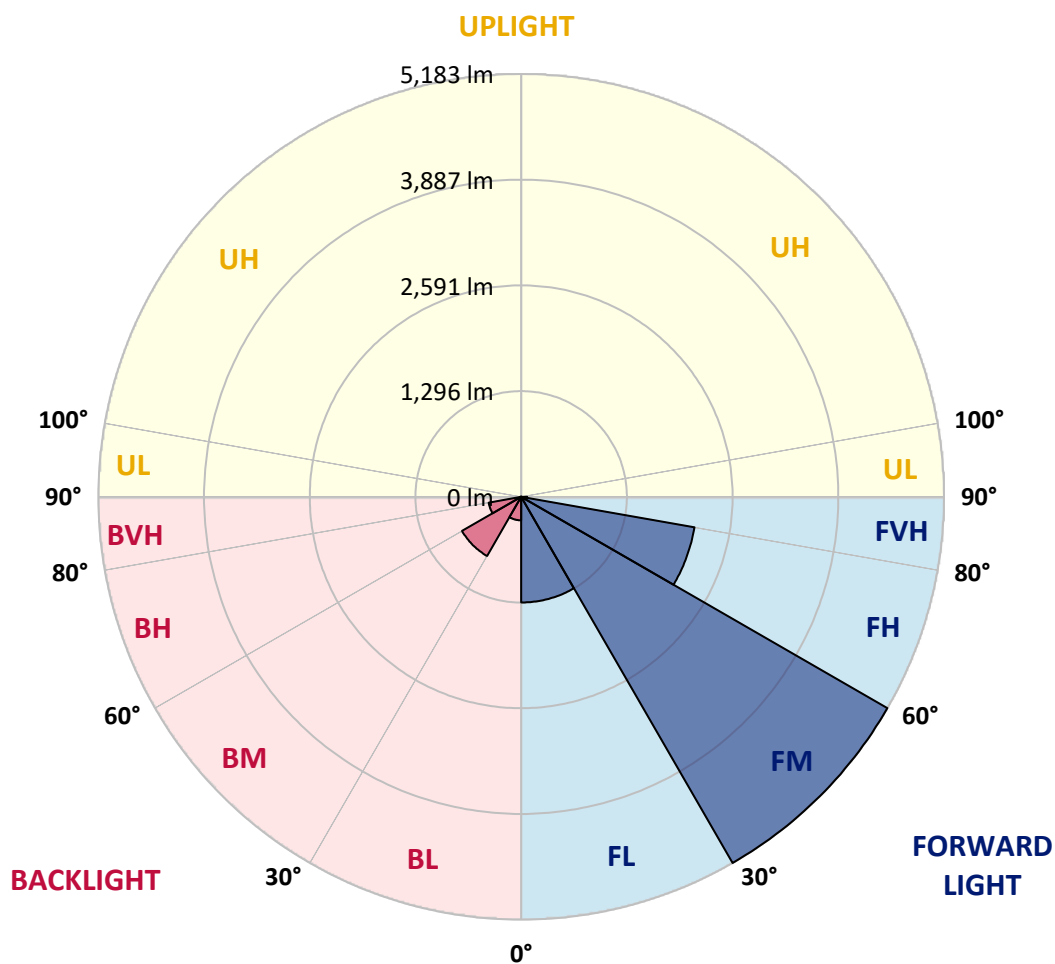
CATALOG NUMBER: USSL-110-8540-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.8	12.6			
FM	(30°-60°)	5182.6	50.5			
FH	(60°-80°)	2157.5	21.0			G2/5000
FVH	(80°-90°)	73.1	0.7			G1/100
BL	(0°-30°)	288.3	2.8	B1/500		
BM	(30°-60°)	836.7	8.2	B1/1000		
BH	(60°-80°)	404.7	3.9	B1/500		G1/500
BVH	(80°-90°)	16.1	0.2			G1/100
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: P1461427

CATALOG NUMBER: USSL-110-8540-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7
2.5°	1818.6	1811.6	1804.6	1790.7	1767.7	1719.6	1674.3	1633.2	1580.2	1569.0	1523.7
5°	2142.7	2147.6	2114.1	2091.1	2030.5	1951.0	1866.7	1764.9	1654.1	1645.7	1548.1
7.5°	2497.5	2498.2	2452.9	2406.2	2316.2	2189.4	2045.8	1899.4	1739.1	1720.3	1571.1
10°	2863.4	2833.4	2810.4	2741.4	2614.6	2435.4	2251.4	2042.3	1824.8	1797.7	1599.7
12.5°	3117.1	3106.7	3069.0	2990.3	2878.1	2698.9	2466.1	2187.3	1916.1	1879.9	1633.8
15°	3413.4	3379.9	3320.7	3234.2	3111.6	2926.2	2671.7	2353.2	2009.6	1972.6	1674.3
17.5°	3718.0	3683.8	3655.9	3566.7	3418.3	3162.4	2881.5	2535.8	2121.1	2072.3	1721.0
20°	3835.8	3821.8	3834.4	3821.8	3744.5	3561.8	3209.8	2747.0	2262.6	2205.4	1793.5
22.5°	3689.4	3680.3	3728.4	3789.1	3834.4	3822.5	3614.1	3172.9	2544.2	2468.2	1935.0
25°	3658.7	3658.0	3684.5	3718.7	3722.9	3757.7	3768.9	3522.8	2883.6	2796.5	2160.1
27.5°	3777.9	3752.1	3766.8	3815.6	3822.5	3826.7	3764.7	3648.3	3202.9	3126.2	2413.8
30°	3952.9	3925.7	3911.8	3932.0	3948.7	3991.2	3972.4	3810.7	3524.2	3474.0	2822.3
32.5°	4228.9	4198.2	4146.0	4110.4	4079.7	4166.9	4224.7	4155.0	3892.2	3837.2	3235.6
35°	4469.4	4456.8	4427.6	4353.7	4282.6	4353.0	4537.0	4544.0	4044.9	3959.9	3178.5
37.5°	4708.5	4686.2	4677.8	4624.1	4534.2	4509.8	4663.9	4541.9	3915.2	3819.8	2992.4
40°	4822.1	4802.6	4866.7	4866.7	4751.0	4663.2	4729.4	4615.1	4169.0	4099.3	3267.0
42.5°	4794.9	4780.3	4863.2	4894.6	4891.8	4848.6	4926.6	4935.7	4587.9	4511.9	3689.4
45°	4513.3	4456.1	4557.9	4785.1	4898.1	4970.6	5176.2	5324.6	5064.0	4978.9	4132.7
47.5°	4113.9	4063.0	4219.8	4544.7	4791.4	5026.3	5371.4	5694.1	5535.9	5452.9	4615.1
50°	3448.9	3485.9	3759.1	4166.9	4576.0	5002.6	5520.5	6039.8	6051.0	5965.2	5117.6
52.5°	2736.6	2771.4	3212.6	3690.1	4269.3	4820.0	5581.9	6405.1	6566.8	6488.7	5598.6
55°	2057.6	2112.0	2485.6	3091.3	3766.8	4527.2	5524.7	6687.4	7076.3	7032.4	6035.6
57.5°	1571.8	1611.5	1867.4	2427.1	3120.6	4113.2	5329.5	6860.9	7530.8	7486.9	6329.8
60°	1204.5	1225.4	1447.0	1779.5	2508.6	3547.9	4988.7	6848.4	7843.0	7811.7	6434.3
62°	1015.6	1016.3	1197.5	1397.6	2040.2	3020.3	4590.7	6675.5	7939.2	7926.7	6359.0
62.5°	971.0	997.5	1148.0	1328.5	1898.0	2885.7	4451.3	6595.3	7929.5	7917.6	6312.3
65°	772.3	792.5	904.8	1014.9	1442.2	2116.9	3701.3	6064.9	7631.1	7631.1	5976.4
67.5°	628.0	631.5	715.2	780.0	1050.4	1437.3	2742.1	5281.4	6883.2	6925.0	5388.8
70°	478.9	488.6	533.2	592.5	759.1	1020.5	1850.6	4185.7	5783.3	5723.4	4483.3
72.5°	379.2	379.2	402.2	427.3	531.8	720.7	1267.9	3034.9	4289.6	4248.4	3294.2
75°	310.9	313.0	317.8	315.1	363.9	493.5	830.2	1878.5	2746.3	2737.3	1999.1
77.5°	233.5	236.3	252.3	248.1	246.8	304.6	524.9	1018.4	1559.3	1556.5	1047.6
80°	177.0	177.0	183.3	181.2	173.6	191.0	317.8	552.7	793.9	800.2	558.3
82.5°	126.2	126.2	134.5	132.4	124.1	131.0	181.2	304.6	424.5	414.0	319.2
85°	71.1	73.2	75.3	80.9	78.8	82.3	106.6	151.3	209.1	218.9	177.7
87.5°	34.9	38.3	39.0	42.5	41.1	42.5	49.5	66.9	62.0	62.0	46.0
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: P1461427

CATALOG NUMBER: USSL-110-8540-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7
2.5°	1494.4	1463.1	1413.6	1359.2	1311.1	1276.3	1229.6	1199.6	1178.7	1173.8	1202.4
5°	1493.0	1436.6	1331.3	1235.1	1146.6	1076.2	1010.7	960.5	928.5	908.9	926.4
7.5°	1488.2	1411.5	1253.3	1113.2	990.5	895.7	816.2	768.1	730.5	718.6	712.4
10°	1495.1	1387.1	1182.2	998.9	858.7	740.3	670.5	628.0	605.0	586.2	590.4
12.5°	1499.3	1364.1	1113.9	904.8	739.6	633.6	572.3	541.6	524.9	516.5	511.6
15°	1504.2	1346.7	1046.9	805.1	639.9	554.8	506.0	482.3	467.0	464.2	459.3
17.5°	1527.2	1336.2	989.1	722.8	563.2	490.0	455.2	437.0	426.6	424.5	422.4
20°	1565.5	1343.9	941.7	653.8	505.4	444.7	414.7	401.5	395.9	393.8	392.4
22.5°	1660.3	1383.6	910.3	598.8	459.3	405.7	382.7	374.3	370.8	369.4	368.0
25°	1839.5	1513.3	927.8	563.2	426.6	370.8	354.8	350.6	347.1	346.4	346.4
27.5°	2033.9	1650.6	982.1	560.4	404.3	345.7	331.1	328.3	326.9	326.9	326.9
30°	2391.5	1909.2	1101.3	618.3	408.5	325.5	309.5	308.1	309.5	311.6	311.6
32.5°	2748.4	2223.5	1264.4	672.6	417.5	308.8	290.7	290.7	294.1	298.3	298.3
35°	2726.8	2199.1	1155.0	584.1	368.7	288.6	273.2	273.9	281.6	285.8	285.8
37.5°	2503.1	1974.0	1024.6	513.0	338.8	273.2	257.2	258.6	267.0	271.8	272.5
40°	2692.6	2109.2	1071.3	523.5	328.3	262.1	243.3	245.4	252.3	256.5	255.8
42.5°	3042.6	2356.0	1172.4	543.0	319.9	253.0	232.1	232.1	236.3	239.1	238.4
45°	3416.9	2636.2	1295.1	559.7	310.9	245.4	223.1	219.6	221.0	221.7	220.3
47.5°	3831.6	2959.6	1420.6	580.6	302.5	238.4	211.2	207.0	205.6	203.5	204.9
50°	4255.4	3253.8	1543.2	594.6	294.8	229.3	200.7	193.1	189.6	186.8	186.1
52.5°	4676.4	3591.1	1640.8	602.9	286.5	218.9	188.9	178.4	173.6	169.4	168.0
55°	5042.4	3850.4	1735.6	607.1	277.4	207.7	175.7	163.1	154.7	149.9	149.2
57.5°	5237.5	3935.5	1776.7	607.1	267.0	195.2	162.4	147.8	142.2	138.0	137.3
60°	5161.5	3724.3	1716.1	598.8	252.3	180.5	147.8	136.6	133.1	135.2	135.2
62°	4889.0	3326.9	1587.8	573.7	237.7	165.2	138.0	129.0	126.9	129.6	131.0
62.5°	4799.8	3216.1	1524.4	565.3	232.8	162.4	135.9	126.2	125.5	128.3	127.6
65°	4196.1	2515.6	1198.9	502.6	209.8	147.1	124.8	118.5	122.0	122.0	121.3
67.5°	3548.6	1928.7	870.6	419.6	186.8	133.8	113.6	113.6	112.9	110.8	110.1
70°	2789.5	1419.9	605.0	320.6	160.3	119.9	103.2	100.4	97.6	96.2	96.9
72.5°	1917.5	1000.2	400.1	239.1	129.6	100.4	89.2	85.0	81.6	79.5	78.8
75°	1141.7	611.3	266.3	160.3	99.0	84.3	73.2	68.3	66.2	62.7	62.7
77.5°	625.9	368.7	155.4	110.1	78.1	69.7	59.9	53.0	53.7	50.9	50.9
80°	333.2	193.1	96.2	74.6	59.2	57.2	49.5	43.9	42.5	36.2	34.9
82.5°	198.0	108.7	60.6	50.9	43.2	43.9	39.0	34.2	30.0	12.5	9.8
85°	112.9	53.7	28.6	25.1	21.6	25.8	23.0	17.4	11.2	2.1	2.8
87.5°	34.2	11.2	7.7	7.7	7.0	6.3	4.9	3.5	2.8	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)