

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: P1461480

Luminaire Tested: USSL-150-8540-U-T2U

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461480
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T2U
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18914.1 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

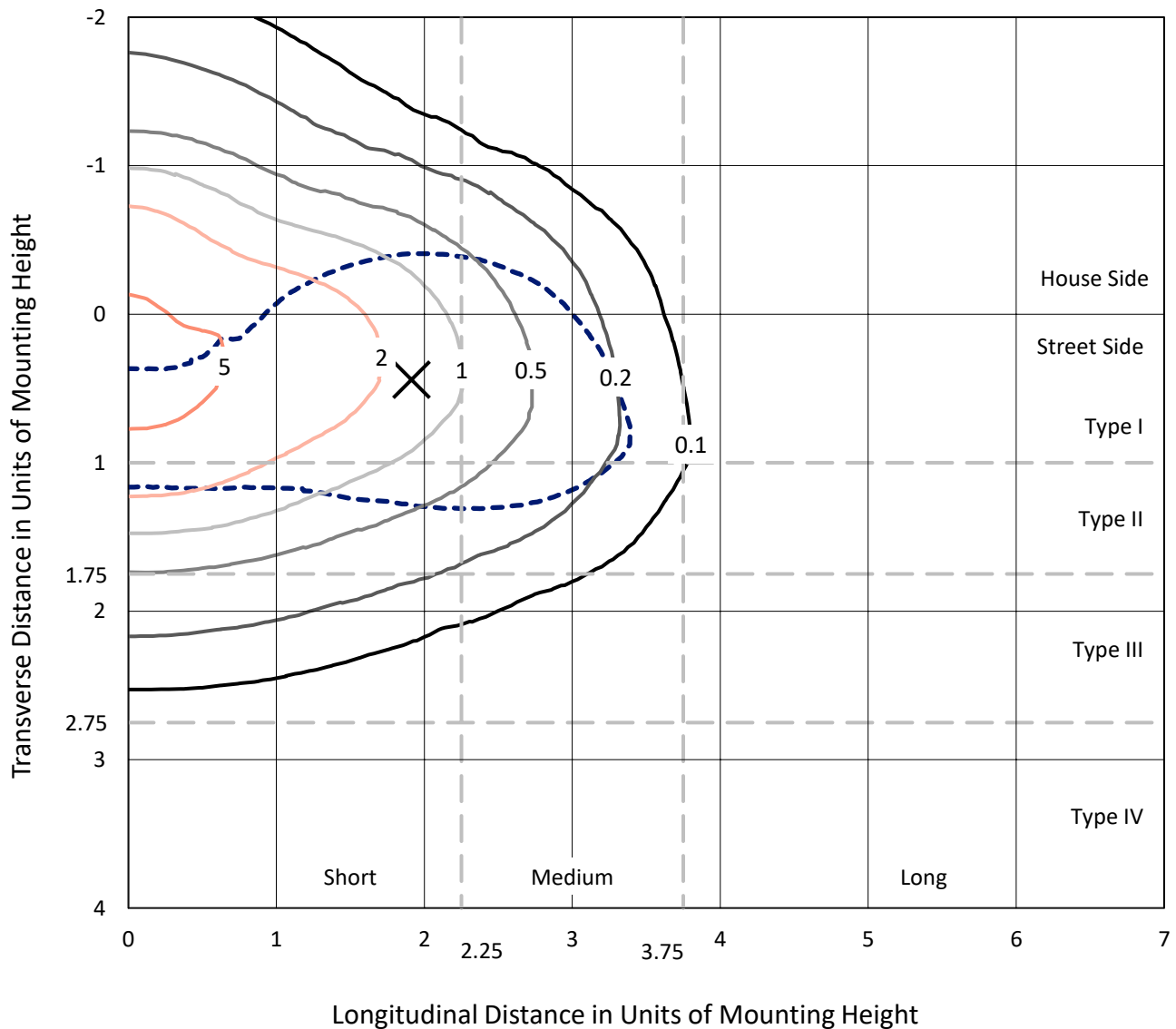
Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1461480

CATALOG NUMBER: USSL-150-8540-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

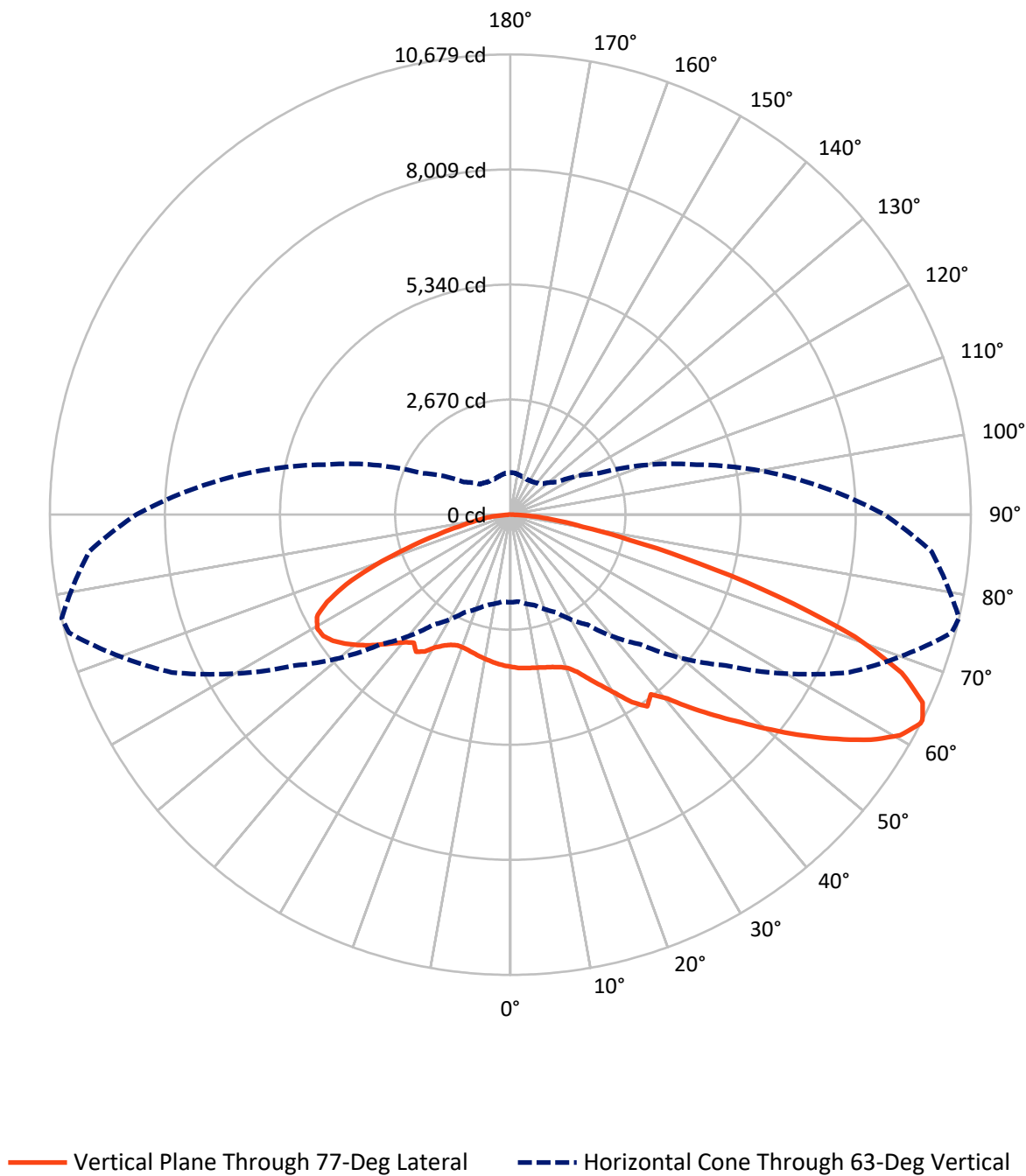


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

REPORT NUMBER: P1461480

CATALOG NUMBER: USSL-150-8540-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P1461480

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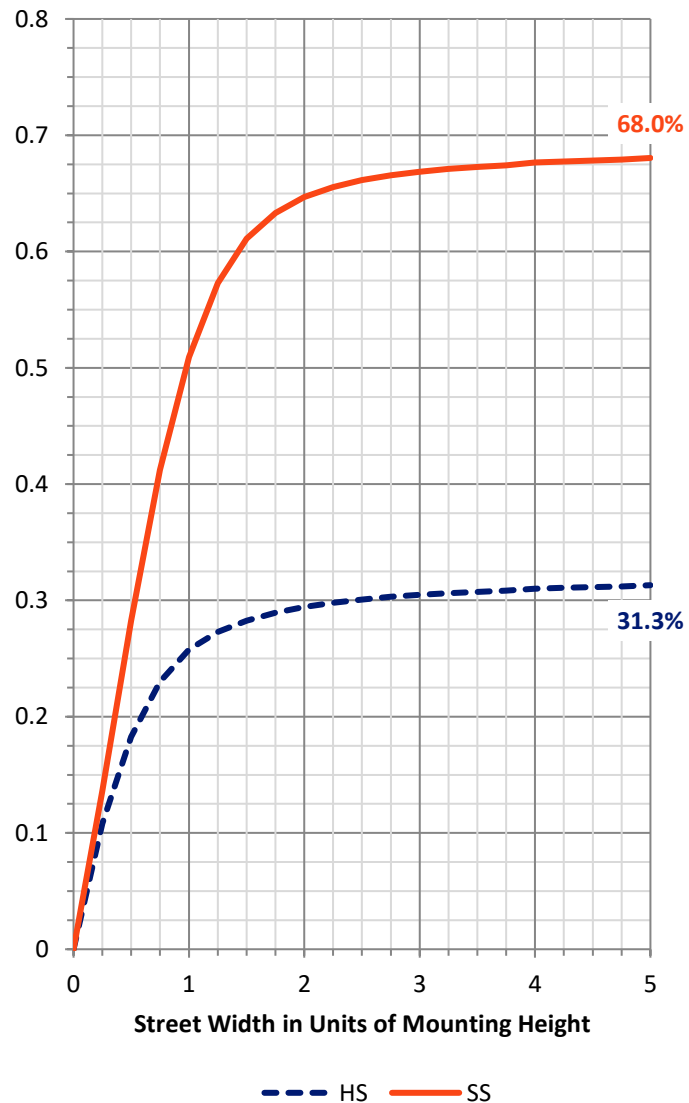
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5998.9	0.0	5998.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12915.2	0.0	12915.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	18914.1	0.0	18914.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.8
10°-20°	1035.7	5.5
20°-30°	1838.9	9.7
30°-40°	2739.6	14.5
40°-50°	3511.8	18.6
50°-60°	3945.1	20.9
60°-70°	3483.6	18.4
70°-80°	1665.5	8.8
80°-90°	356.2	1.9
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°	18914.1	100.0
0°-180°	18914.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1461480

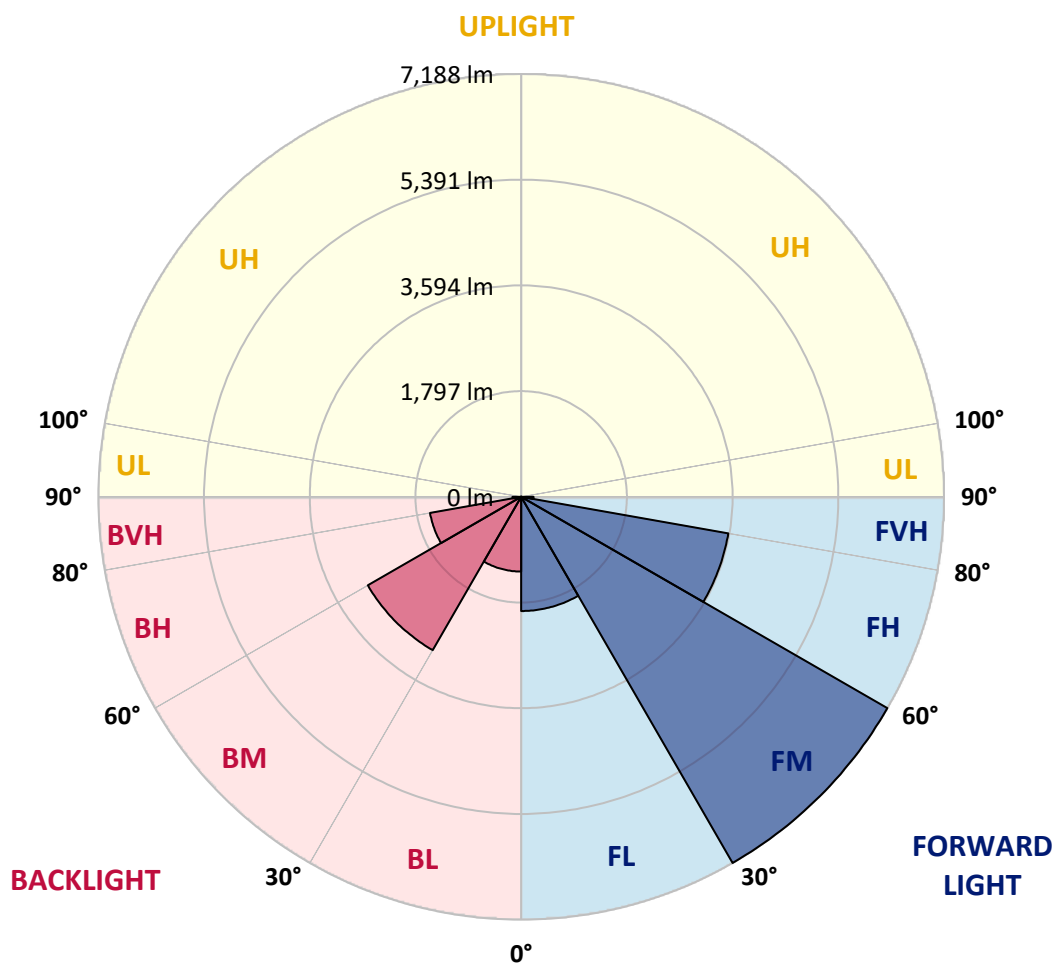
CATALOG NUMBER: USSL-150-8540-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1941.4	10.3			
FM	(30°-60°)	7188.1	38.0			
FH	(60°-80°)	3576.3	18.9			G2/5000
FVH	(80°-90°)	209.4	1.1			G2/225
BL	(0°-30°)	1270.8	6.7	B3/2500		
BM	(30°-60°)	3008.5	15.9	B3/5000		
BH	(60°-80°)	1572.8	8.3	B3/2500		G3/2500
BVH	(80°-90°)	146.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P1461480

CATALOG NUMBER: USSL-150-8540-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3
2.5°	3616.5	3632.4	3617.4	3615.7	3609.5	3591.9	3592.8	3570.0	3553.2	3561.2	3539.2
5°	3752.8	3754.6	3746.6	3733.5	3710.6	3675.4	3643.8	3610.4	3570.8	3574.3	3540.1
7.5°	3933.9	3938.3	3908.4	3882.0	3836.3	3772.1	3717.6	3647.3	3587.5	3589.3	3533.0
10°	4135.2	4139.6	4114.1	4068.4	3994.5	3900.5	3799.4	3704.5	3613.0	3608.6	3526.9
12.5°	4362.9	4368.2	4348.8	4269.7	4173.0	4043.8	3909.3	3768.6	3648.2	3635.9	3536.5
15°	4617.8	4627.5	4580.9	4502.7	4376.9	4204.6	4032.3	3849.5	3688.6	3669.3	3546.2
17.5°	4986.2	4954.5	4921.1	4813.9	4624.8	4412.1	4169.5	3947.1	3741.4	3720.3	3562.9
20°	5359.8	5362.4	5328.1	5261.3	5031.0	4756.7	4385.7	4088.6	3824.9	3795.9	3615.7
22.5°	5331.6	5332.5	5348.3	5379.1	5353.6	5209.4	4869.2	4406.0	4014.8	3958.5	3717.6
25°	5424.8	5440.6	5430.1	5407.2	5295.6	5220.9	5147.0	4803.3	4294.3	4217.8	3909.3
27.5°	5646.3	5672.7	5656.0	5635.8	5508.3	5365.9	5149.7	4980.0	4580.0	4487.7	4124.7
30°	5884.6	5894.2	5870.5	5838.9	5746.6	5622.6	5416.9	5119.8	4871.9	4807.7	4430.6
32.5°	6063.0	6065.7	6054.2	6061.3	5967.2	5883.7	5739.5	5441.5	5209.4	5187.5	4933.4
35°	6194.9	6223.9	6215.1	6245.9	6189.6	6147.4	6070.1	5923.3	5554.0	5467.0	5080.2
37.5°	6324.1	6356.6	6383.0	6398.8	6346.1	6341.7	6327.6	6090.3	5409.9	5292.1	4850.8
40°	6364.6	6383.0	6492.9	6556.2	6475.3	6470.9	6441.9	6141.3	5691.2	5610.3	5160.2
42.5°	6322.4	6318.8	6449.8	6498.2	6542.1	6587.0	6643.2	6528.9	6165.9	6117.5	5626.1
45°	6055.1	6014.7	6085.0	6335.5	6487.6	6660.8	6899.0	6950.9	6713.5	6643.2	6138.6
47.5°	5713.2	5686.8	5774.7	6070.9	6340.8	6685.4	7103.9	7408.9	7264.7	7198.8	6730.2
50°	5175.2	5205.9	5388.8	5714.0	6101.7	6646.7	7269.1	7851.1	7892.4	7844.0	7326.3
52.5°	4471.9	4493.9	4884.2	5300.9	5772.1	6399.7	7341.2	8307.3	8545.6	8518.3	7935.5
55°	3718.5	3784.4	4064.9	4708.4	5274.5	6091.2	7291.1	8675.7	9235.6	9189.0	8575.4
57.5°	3077.7	3146.2	3339.6	3922.5	4686.4	5624.4	7104.7	8936.7	9851.9	9856.3	9173.2
60°	2501.0	2561.6	2704.1	3174.4	3996.3	5067.9	6732.0	8989.5	10349.4	10390.7	9606.6
62.5°	2094.9	2119.5	2254.0	2589.8	3302.7	4402.4	6209.8	8751.3	10594.7	10675.6	9805.3
63°	2035.1	2023.6	2174.8	2496.6	3119.0	4254.8	6101.7	8659.8	10595.6	10679.1	9804.4
65°	1727.4	1744.1	1841.7	2114.2	2625.8	3638.5	5481.1	8179.0	10387.2	10507.7	9583.7
67.5°	1354.7	1370.5	1504.1	1725.6	2089.6	2950.2	4662.6	7329.8	9681.3	9789.5	8833.9
70°	1074.2	1081.3	1166.5	1367.9	1697.5	2298.8	3664.0	6143.0	8390.0	8474.3	7483.6
72.5°	871.2	894.0	950.3	1072.5	1286.1	1746.7	2764.7	4844.6	6624.8	6498.2	5502.2
75°	730.5	737.5	793.8	854.5	965.2	1258.0	1994.6	3571.7	4516.7	4507.1	3585.8
77.5°	617.1	631.2	644.4	673.4	736.7	894.9	1401.3	2480.8	2876.4	2827.1	2067.6
80°	520.4	525.7	520.4	525.7	549.4	605.7	909.8	1624.5	1833.8	1705.4	1258.0
82.5°	363.1	389.4	392.9	410.5	419.3	443.1	608.3	1058.4	1167.4	1049.6	741.1
85°	215.4	212.7	223.3	253.2	282.2	279.5	385.9	529.2	629.4	585.5	356.0
87.5°	76.5	72.1	72.1	88.8	95.8	103.7	126.6	165.3	156.5	157.4	88.8
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: P1461480

CATALOG NUMBER: USSL-150-8540-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3	3531.3
2.5°	3527.8	3512.8	3505.8	3493.5	3474.1	3463.6	3453.9	3440.7	3436.3	3424.9	3423.1
5°	3515.4	3500.5	3471.5	3439.8	3413.5	3393.3	3356.3	3334.4	3314.1	3310.6	3315.9
7.5°	3496.1	3477.6	3431.9	3386.2	3334.4	3300.1	3252.6	3221.8	3204.3	3200.7	3207.8
10°	3488.2	3454.8	3388.0	3322.9	3257.9	3204.3	3152.4	3113.7	3088.2	3084.7	3076.8
12.5°	3480.3	3438.1	3346.7	3264.9	3171.7	3109.3	3053.1	3021.4	2995.0	2991.5	2989.8
15°	3476.8	3423.1	3304.5	3194.6	3091.7	3017.0	2960.7	2935.3	2927.3	2922.1	2924.7
17.5°	3482.0	3412.6	3267.5	3123.4	3005.6	2930.0	2886.0	2869.3	2866.7	2868.4	2874.6
20°	3510.2	3420.5	3236.8	3063.6	2930.0	2852.6	2820.1	2811.3	2811.3	2821.0	2827.1
22.5°	3573.5	3462.7	3221.0	3015.3	2866.7	2794.6	2756.8	2746.3	2757.7	2775.3	2779.7
25°	3740.5	3584.9	3252.6	2988.0	2817.5	2731.3	2690.9	2689.1	2701.4	2717.2	2719.0
27.5°	3931.3	3737.9	3326.4	2983.6	2771.7	2666.3	2623.2	2617.9	2624.1	2639.9	2639.9
30°	4193.2	3941.8	3438.1	3015.3	2740.1	2595.0	2544.1	2527.4	2534.4	2554.6	2548.5
32.5°	4608.1	4267.1	3611.3	3070.6	2711.1	2523.8	2456.2	2442.1	2442.1	2457.9	2464.9
35°	4808.6	4507.9	3698.3	3049.5	2646.0	2441.2	2360.3	2340.1	2366.5	2396.4	2400.8
37.5°	4604.6	4297.8	3576.1	2957.2	2553.7	2343.6	2266.3	2249.6	2272.4	2301.4	2305.0
40°	4849.0	4493.0	3670.2	2959.9	2495.7	2252.2	2161.7	2108.0	2111.6	2134.4	2129.1
42.5°	5259.5	4827.0	3809.1	2972.2	2425.4	2152.9	2018.4	1925.2	1912.0	1915.5	1920.8
45°	5729.9	5203.3	3973.4	2974.8	2335.7	2030.7	1842.6	1727.4	1694.9	1675.5	1670.3
47.5°	6232.7	5605.9	4152.8	2968.7	2220.6	1873.3	1664.1	1548.9	1486.5	1457.5	1460.2
50°	6777.7	6022.6	4312.8	2939.6	2097.5	1706.3	1495.3	1382.8	1312.5	1295.8	1287.9
52.5°	7293.7	6431.4	4466.6	2897.5	1959.5	1535.8	1336.2	1239.5	1180.6	1164.8	1161.3
55°	7839.7	6837.5	4595.8	2824.5	1803.9	1374.9	1196.4	1131.4	1090.1	1079.5	1081.3
57.5°	8307.3	7195.3	4665.3	2718.1	1654.4	1232.5	1094.5	1051.4	1025.9	1031.2	1034.7
60°	8655.4	7375.5	4651.2	2565.2	1502.4	1116.4	1010.9	988.1	988.1	1031.2	1044.3
62.5°	8709.1	7339.5	4509.7	2345.4	1337.1	1018.9	938.9	916.9	938.9	991.6	1002.2
63°	8677.4	7279.7	4472.8	2274.2	1311.6	997.8	923.0	901.9	931.8	974.0	974.0
65°	8365.3	6961.4	4144.9	2036.8	1177.1	928.3	867.7	857.1	898.4	926.6	930.9
67.5°	7601.4	6310.0	3584.0	1686.1	1036.4	849.2	794.7	813.2	843.9	865.9	872.9
70°	6389.2	5227.0	2867.6	1356.4	903.7	766.6	735.8	747.2	775.4	794.7	801.7
72.5°	4649.5	3939.2	2151.1	1083.0	786.8	686.6	669.9	669.0	687.4	694.5	705.0
75°	3014.4	2636.4	1570.9	873.8	671.6	604.8	586.3	581.1	616.2	630.3	644.4
77.5°	1796.8	1633.3	1121.7	718.2	572.3	496.7	507.2	507.2	543.3	587.2	607.4
80°	1086.5	998.6	831.6	596.0	450.1	406.1	416.7	422.8	510.7	595.1	603.1
82.5°	654.9	643.5	617.1	461.5	349.0	310.3	331.4	371.9	480.9	368.3	424.6
85°	322.6	347.2	396.5	257.6	217.1	211.9	222.4	328.8	318.2	146.8	138.0
87.5°	82.6	98.5	93.2	68.6	58.9	54.5	73.8	123.1	101.1	35.2	21.1
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)