

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: P1461687

Luminaire Tested: USSL-110-8540-U-T3R

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461687
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T3R
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14991.1 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

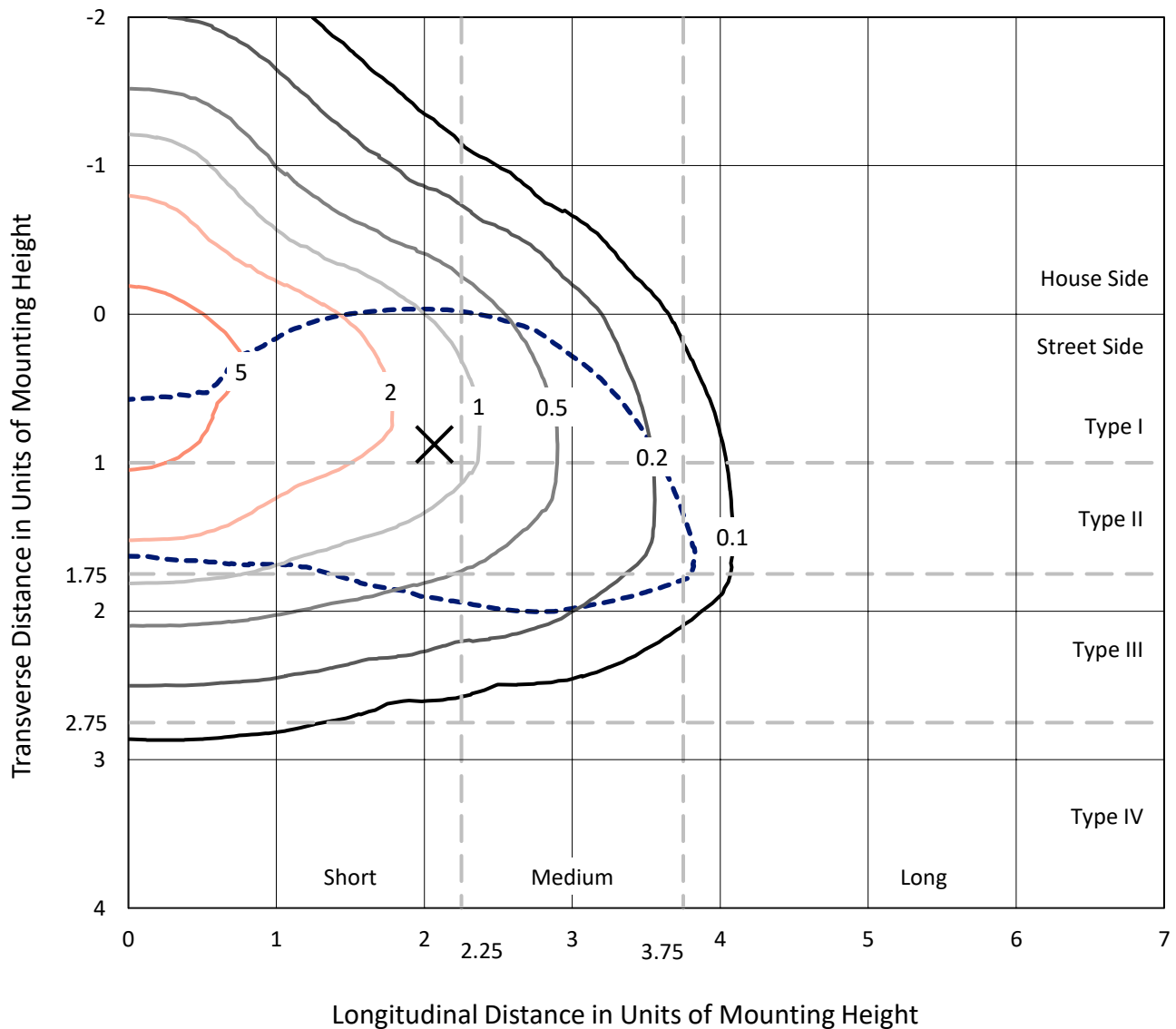
Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1461687

CATALOG NUMBER: USSL-110-8540-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

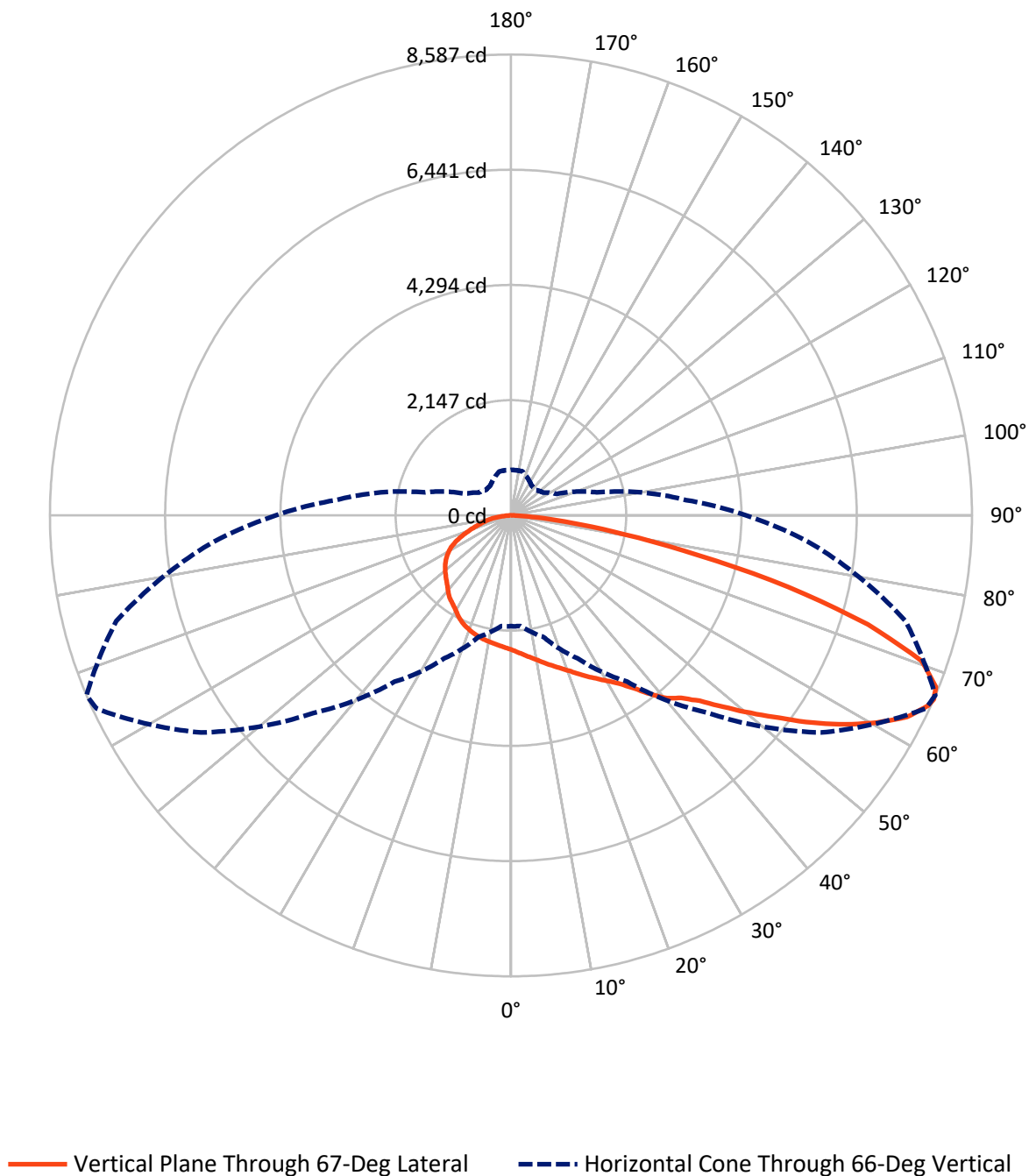


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Short - N/A

REPORT NUMBER: P1461687

CATALOG NUMBER: USSL-110-8540-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P1461687

CATALOG NUMBER: USSL-110-8540-U-T3R

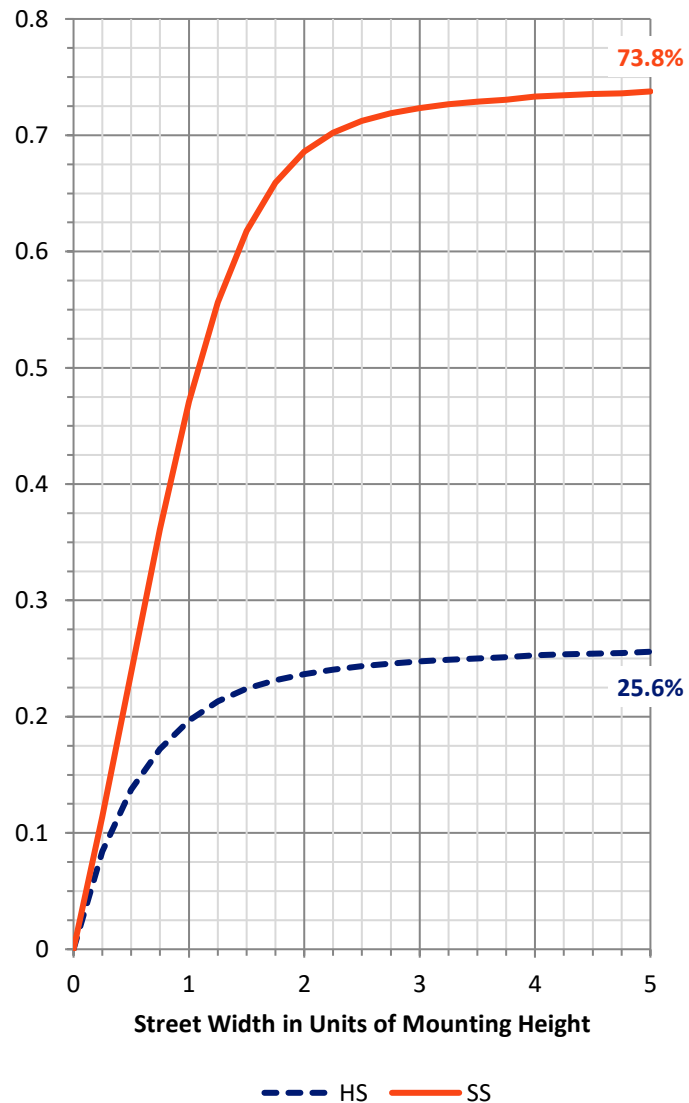
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3885.1	0.0	3885.1
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	11105.9	0.0	11105.9
	% Fixture	74.1	0.0	74.1
Total	Lumens	14991.1	0.0	14991.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	1.6
10°-20°	726.5	4.8
20°-30°	1236.6	8.2
30°-40°	1933.2	12.9
40°-50°	2673.3	17.8
50°-60°	3205.8	21.4
60°-70°	3093.5	20.6
70°-80°	1596.5	10.6
80°-90°	284.3	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°	14991.1	100.0
0°-180°	14991.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1461687

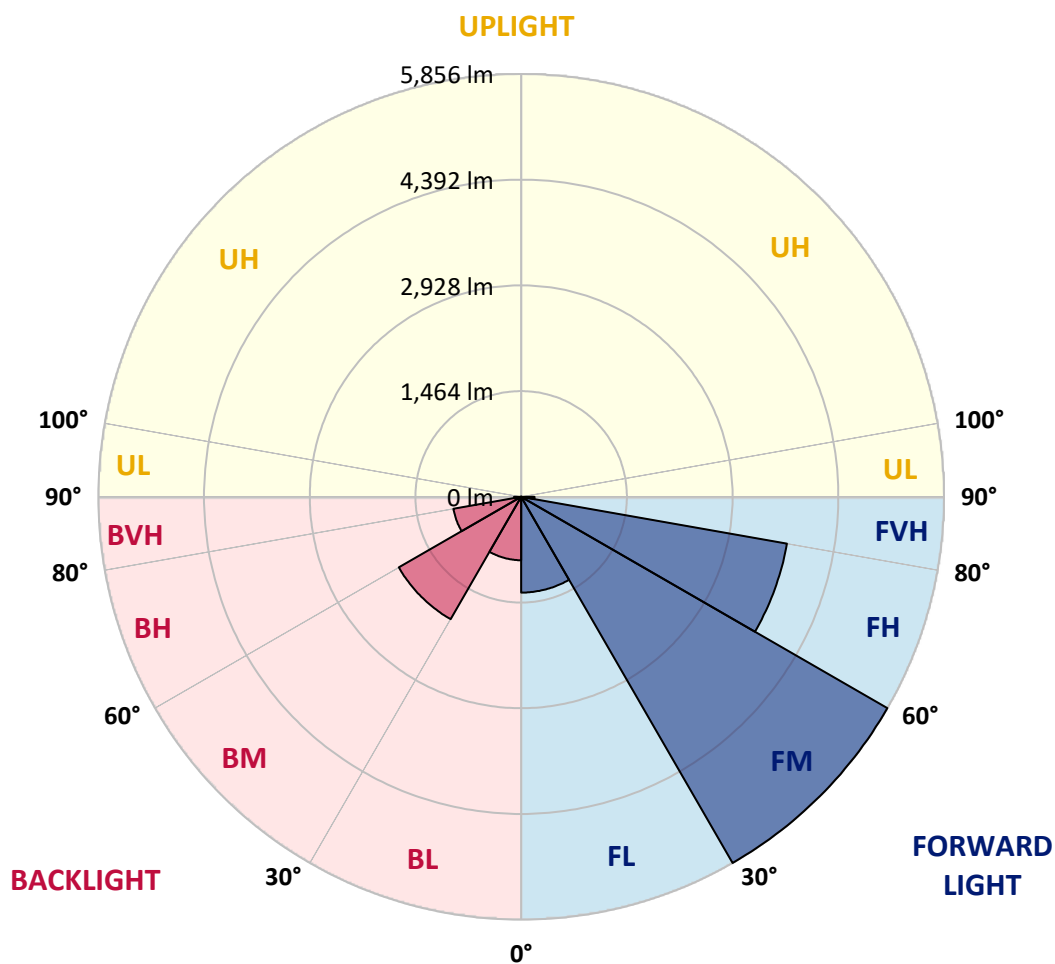
CATALOG NUMBER: USSL-110-8540-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1326.7	8.8			
FM	(30°-60°)	5856.1	39.1			
FH	(60°-80°)	3737.5	24.9			G2/5000
FVH	(80°-90°)	185.6	1.2			G2/225
BL	(0°-30°)	877.9	5.9	B2/1000		
BM	(30°-60°)	1956.1	13.0	B2/2500		
BH	(60°-80°)	952.5	6.4	B2/1000		G2/1000
BVH	(80°-90°)	98.6	0.7			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 III Short



REPORT NUMBER: P1461687

CATALOG NUMBER: USSL-110-8540-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3
2.5°	2607.0	2609.1	2610.5	2606.3	2593.1	2584.0	2577.1	2554.8	2555.5	2541.5	2515.7
5°	2706.6	2717.1	2714.3	2706.6	2690.6	2668.3	2643.9	2608.4	2611.2	2581.2	2536.6
7.5°	2801.4	2814.6	2809.7	2803.5	2785.4	2756.8	2728.2	2676.7	2674.6	2629.3	2561.7
10°	2876.6	2890.6	2890.6	2886.4	2878.7	2846.0	2809.0	2753.3	2742.2	2678.8	2598.0
12.5°	2938.6	2951.2	2959.5	2956.0	2958.8	2936.5	2896.1	2835.5	2824.4	2740.1	2638.4
15°	2975.6	2999.2	3005.5	3016.7	3031.3	3022.2	2994.4	2912.9	2905.9	2811.1	2680.9
17.5°	3013.2	3026.4	3041.7	3069.6	3093.3	3107.2	3079.4	3011.1	2993.0	2878.7	2725.4
20°	3057.1	3081.5	3098.2	3127.4	3160.9	3195.0	3188.7	3107.9	3089.8	2963.0	2779.8
22.5°	3173.4	3190.8	3198.5	3218.7	3258.4	3292.6	3296.7	3225.7	3203.4	3065.4	2844.6
25°	3407.5	3427.0	3397.8	3375.5	3364.3	3394.3	3415.2	3349.7	3325.3	3167.1	2908.0
27.5°	3824.1	3823.4	3738.4	3647.9	3551.0	3515.5	3530.1	3474.4	3447.9	3266.1	2981.8
30°	4297.2	4320.2	4248.4	4029.0	3801.1	3657.6	3666.7	3604.0	3583.8	3385.9	3067.5
32.5°	4791.8	4805.1	4719.4	4508.3	4141.1	3877.1	3823.4	3771.2	3741.9	3545.4	3178.3
35°	5032.2	5058.7	5012.7	4810.6	4440.7	4146.0	4054.0	3998.3	3958.6	3734.3	3321.1
37.5°	5342.9	5381.2	5372.2	5085.1	4627.4	4361.3	4296.5	4242.1	4224.7	3970.4	3502.3
40°	5800.6	5799.2	5819.4	5361.0	4826.0	4510.4	4512.5	4514.5	4480.4	4164.8	3636.7
42.5°	6022.2	6015.9	5948.3	5513.6	5057.3	4657.4	4683.8	4681.1	4645.5	4312.5	3743.3
45°	6089.8	6082.1	5921.2	5630.6	5419.5	4823.2	4899.1	4956.2	4927.0	4581.4	3955.8
47.5°	6042.4	6027.1	5938.6	5700.3	5618.1	5115.1	5145.7	5332.5	5326.9	4916.5	4202.4
50°	5924.6	5882.1	5855.7	5725.4	5560.3	5245.4	5450.9	5797.1	5783.9	5327.6	4465.8
52.5°	5664.8	5659.2	5692.6	5606.9	5440.4	5303.9	5784.6	6263.2	6266.0	5745.6	4731.2
55°	5341.5	5321.3	5426.5	5419.5	5315.0	5420.2	6112.7	6798.3	6817.8	6177.5	5016.2
57.5°	4565.4	4588.4	5037.8	5163.9	5184.1	5539.4	6463.2	7303.4	7343.8	6615.1	5260.0
60°	3806.7	3851.3	4174.6	4743.8	4979.2	5601.4	6791.3	7817.5	7834.3	7053.3	5481.5
62.5°	3156.0	3142.8	3438.2	4080.5	4649.7	5577.0	7023.3	8215.4	8276.0	7402.3	5608.3
65°	2340.9	2372.2	2692.7	3261.9	4091.7	5346.4	7096.5	8490.5	8540.7	7596.0	5603.5
66°	2064.3	2069.9	2345.1	2938.6	3780.9	5203.6	7049.8	8516.3	8587.4	7609.9	5544.2
67.5°	1706.2	1713.9	1932.6	2418.2	3291.2	4892.8	6871.4	8468.9	8537.2	7532.6	5358.2
70°	1211.5	1252.6	1369.7	1696.4	2320.0	3980.2	6298.1	7956.2	8112.2	7042.1	4815.5
72.5°	877.1	888.3	983.0	1152.3	1458.2	2653.7	5211.9	6851.9	6952.3	5889.1	3838.8
75°	625.6	639.6	719.7	787.3	964.9	1637.2	3675.0	5367.3	5343.6	4213.6	2615.4
77.5°	486.3	496.7	526.0	562.2	647.9	936.3	2212.0	3627.0	3575.4	2641.1	1630.3
80°	395.0	397.8	388.8	403.4	446.6	590.1	1265.9	2166.0	2120.0	1490.2	987.2
82.5°	307.9	311.4	304.5	294.7	316.3	398.5	739.2	1145.4	1139.1	863.9	535.1
85°	197.2	204.8	196.5	182.5	197.2	242.4	389.4	488.4	469.6	390.8	203.4
87.5°	110.1	108.7	99.6	80.1	69.7	87.8	108.7	109.4	105.2	92.0	55.7
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: P1461687

CATALOG NUMBER: USSL-110-8540-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3
2.5°	2510.2	2505.3	2485.1	2467.0	2448.2	2437.0	2420.3	2412.6	2403.6	2395.9	2388.9
5°	2524.1	2507.4	2469.1	2433.5	2399.4	2377.1	2347.1	2332.5	2315.8	2309.5	2301.2
7.5°	2540.8	2508.8	2457.2	2402.2	2356.2	2315.1	2276.8	2253.8	2235.0	2229.4	2228.7
10°	2562.4	2523.4	2446.8	2375.0	2310.9	2255.2	2206.4	2171.6	2150.7	2143.0	2139.5
12.5°	2588.2	2536.6	2439.8	2348.5	2264.9	2196.7	2136.0	2092.2	2072.0	2059.4	2060.8
15°	2618.9	2553.4	2432.1	2317.9	2212.0	2130.5	2056.6	2006.5	1982.8	1973.7	1972.3
17.5°	2650.9	2568.7	2423.8	2281.7	2153.5	2053.1	1975.8	1919.4	1889.4	1887.3	1892.9
20°	2687.8	2591.7	2414.0	2240.6	2092.2	1977.2	1891.5	1842.0	1812.1	1809.3	1820.4
22.5°	2731.0	2614.0	2399.4	2193.2	2023.9	1898.5	1814.2	1766.8	1743.1	1745.9	1755.0
25°	2779.8	2638.4	2380.6	2140.2	1947.9	1816.3	1738.2	1704.8	1690.2	1695.7	1708.3
27.5°	2827.9	2665.5	2352.0	2074.7	1866.4	1741.0	1685.3	1660.9	1656.7	1667.2	1681.8
30°	2887.1	2692.0	2317.9	1997.4	1778.6	1675.5	1635.8	1630.3	1634.4	1643.5	1660.2
32.5°	2969.3	2745.6	2294.2	1926.3	1701.3	1610.7	1603.8	1612.8	1624.0	1635.8	1654.6
35°	3080.1	2813.9	2287.9	1867.8	1630.9	1559.2	1576.6	1612.8	1631.6	1645.6	1663.7
37.5°	3219.4	2897.5	2278.9	1813.5	1564.8	1507.6	1557.8	1622.6	1647.7	1654.6	1668.6
40°	3297.4	2921.9	2214.1	1742.4	1501.4	1462.3	1538.3	1624.7	1646.3	1656.7	1668.6
42.5°	3369.2	2933.8	2153.5	1670.7	1451.9	1415.7	1504.8	1599.6	1635.1	1680.4	1695.7
45°	3507.8	3011.1	2129.1	1606.6	1400.3	1363.4	1440.1	1540.4	1630.3	1680.4	1693.0
47.5°	3687.6	3097.5	2105.4	1547.3	1342.5	1293.1	1341.1	1495.8	1596.1	1634.4	1639.3
50°	3874.3	3174.8	2074.0	1490.9	1270.8	1197.6	1257.5	1431.0	1537.6	1555.7	1559.9
52.5°	4042.9	3245.9	2043.4	1431.7	1195.5	1103.6	1171.1	1340.4	1436.6	1441.4	1451.9
55°	4211.5	3314.1	2005.8	1369.7	1105.6	1006.7	1072.9	1222.0	1297.9	1290.3	1290.3
57.5°	4343.9	3375.5	1971.6	1293.1	1021.3	923.1	971.2	1088.2	1160.0	1153.0	1146.7
60°	4455.3	3415.2	1931.2	1203.9	936.3	842.3	872.3	976.1	1045.7	1030.4	1030.4
62.5°	4499.9	3415.9	1865.0	1109.1	849.3	764.3	783.8	876.4	955.2	946.1	951.7
65°	4449.1	3351.1	1727.1	992.8	767.1	689.7	705.7	785.2	877.8	875.0	880.6
66°	4378.7	3275.8	1653.2	945.4	737.8	666.7	672.3	753.8	845.8	847.2	846.5
67.5°	4225.4	3140.7	1520.9	877.8	690.4	622.8	629.8	711.3	802.6	795.6	798.4
70°	3832.5	2702.5	1249.2	758.0	619.4	551.8	562.9	647.2	714.8	707.8	706.4
72.5°	3063.3	2039.2	1008.8	647.2	547.6	489.1	505.8	564.3	647.9	644.4	646.5
75°	2031.5	1332.8	793.5	544.8	472.4	439.6	441.0	491.2	572.0	582.4	588.7
77.5°	1265.2	912.0	638.2	457.7	396.4	367.9	370.6	423.6	489.8	494.6	500.2
80°	811.6	672.3	503.0	371.3	303.1	296.8	305.8	354.6	409.7	413.8	411.0
82.5°	489.8	435.4	376.2	265.4	234.1	234.1	246.6	284.9	305.1	236.9	221.5
85°	195.1	226.4	204.8	146.3	150.5	154.0	161.6	193.0	203.4	107.3	84.3
87.5°	45.3	62.0	60.6	42.5	46.7	50.9	50.2	81.5	101.7	46.0	26.5
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)