

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: P1461791

Luminaire Tested: USSL-110-8540-U-T3RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461791
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T3RE
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14766.8 lumens
Efficiency: N/A
Efficacy: 133.0 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

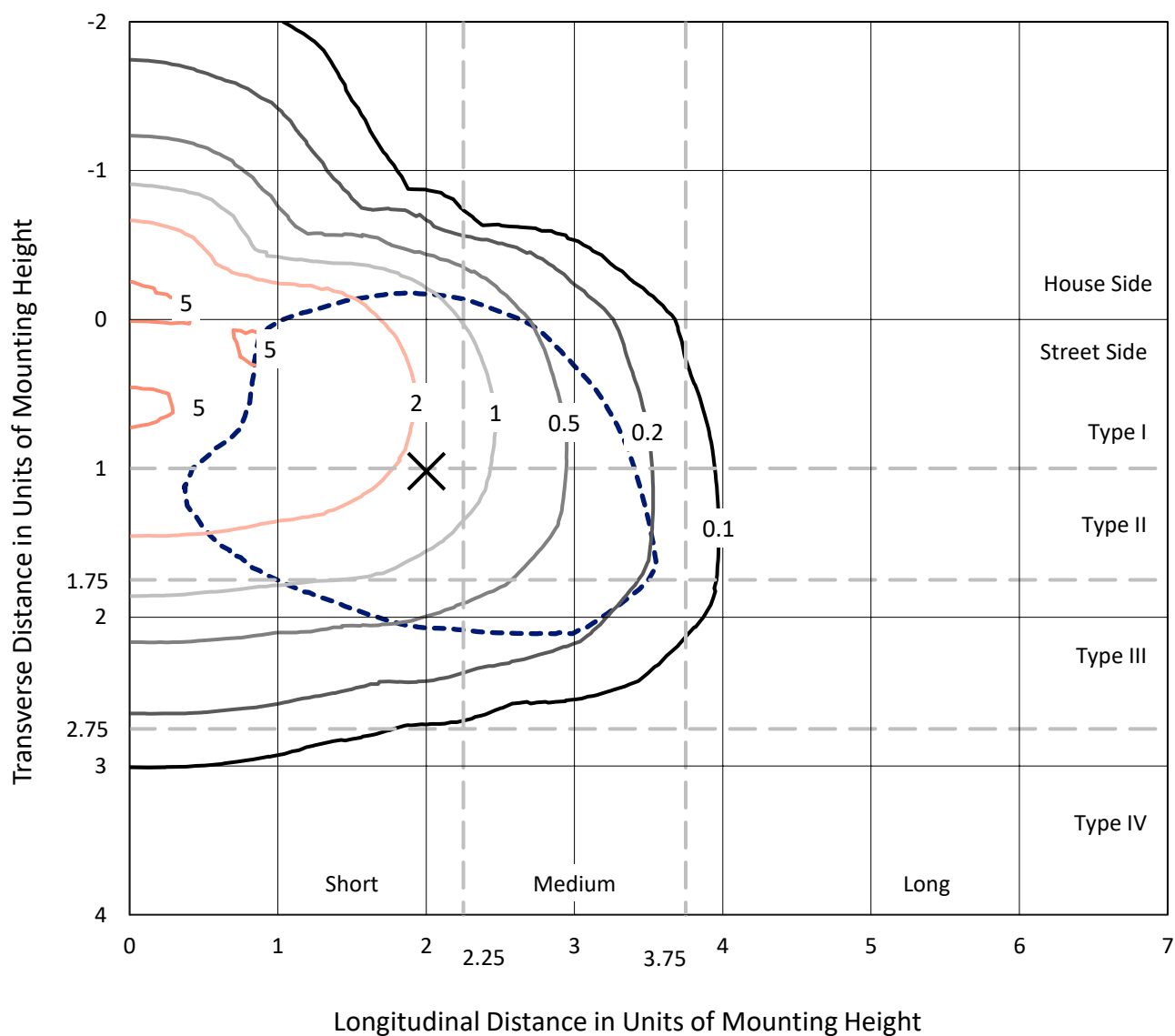
REPORT NUMBER: P1461791

CATALOG NUMBER: USSL-110-8540-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

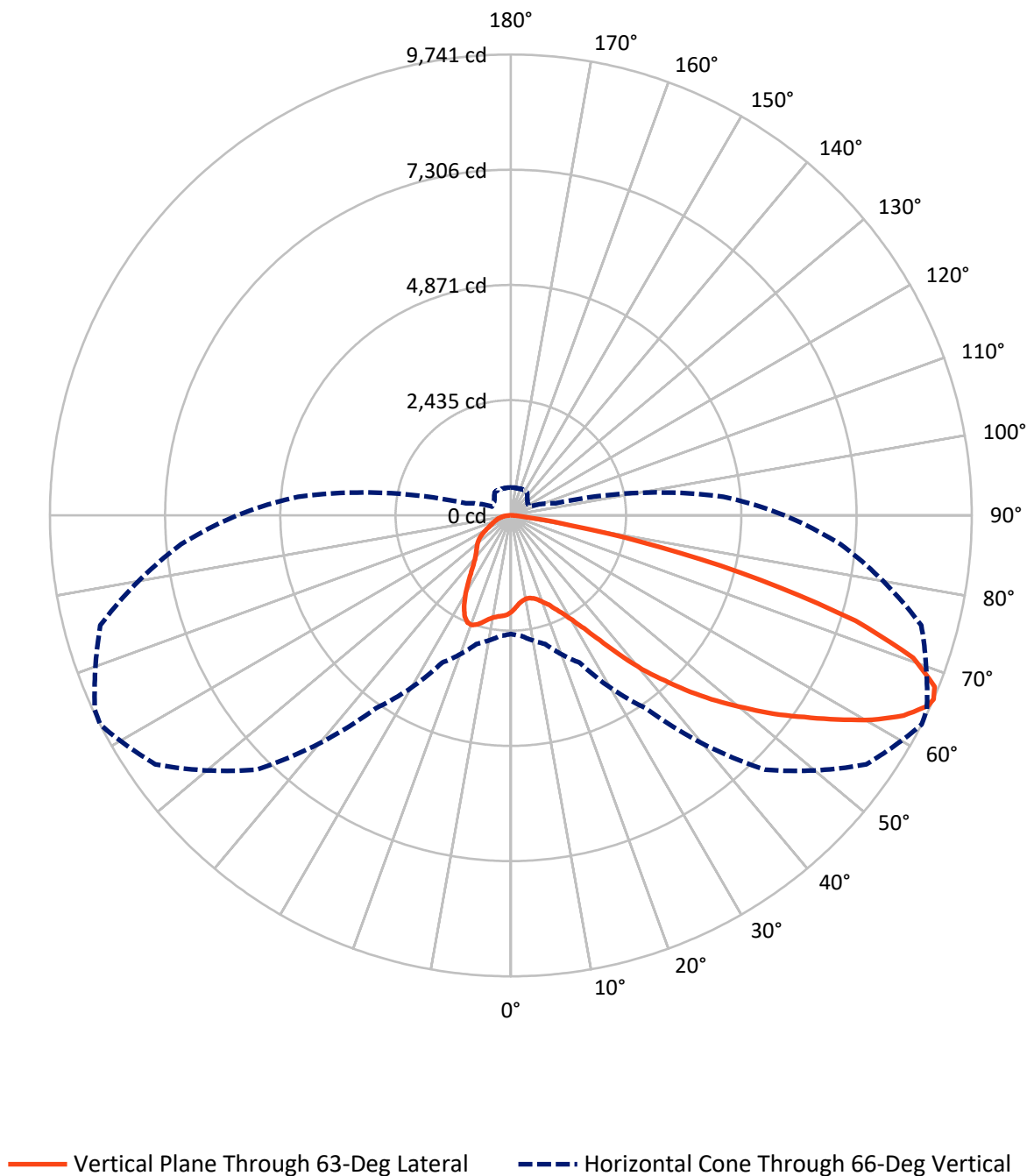


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

REPORT NUMBER: P1461791

CATALOG NUMBER: USSL-110-8540-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1461791

CATALOG NUMBER: USSL-110-8540-U-T3RE

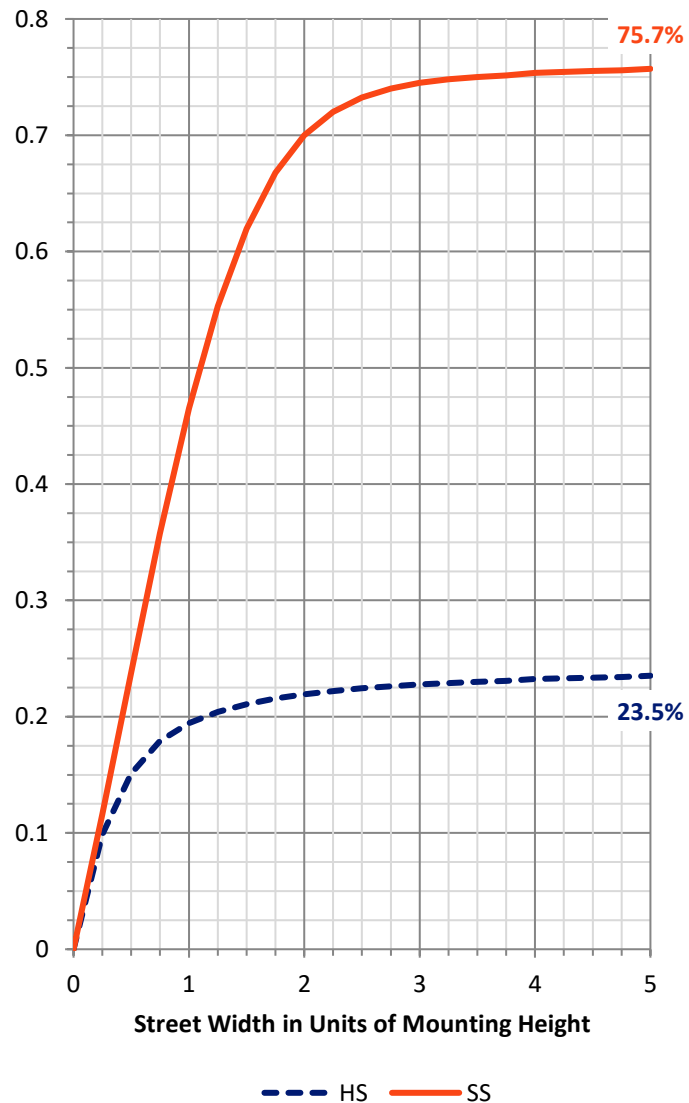
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3532.3	0.0	3532.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	11234.5	0.0	11234.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	14766.8	0.0	14766.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	1.3
10°-20°	592.9	4.0
20°-30°	1056.3	7.2
30°-40°	1663.1	11.3
40°-50°	2497.4	16.9
50°-60°	3352.6	22.7
60°-70°	3597.4	24.4
70°-80°	1618.5	11.0
80°-90°	199.3	1.3
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°	14766.8	100.0
0°-180°	14766.8	100.0

Coefficient of Utilization



REPORT NUMBER: P1461791

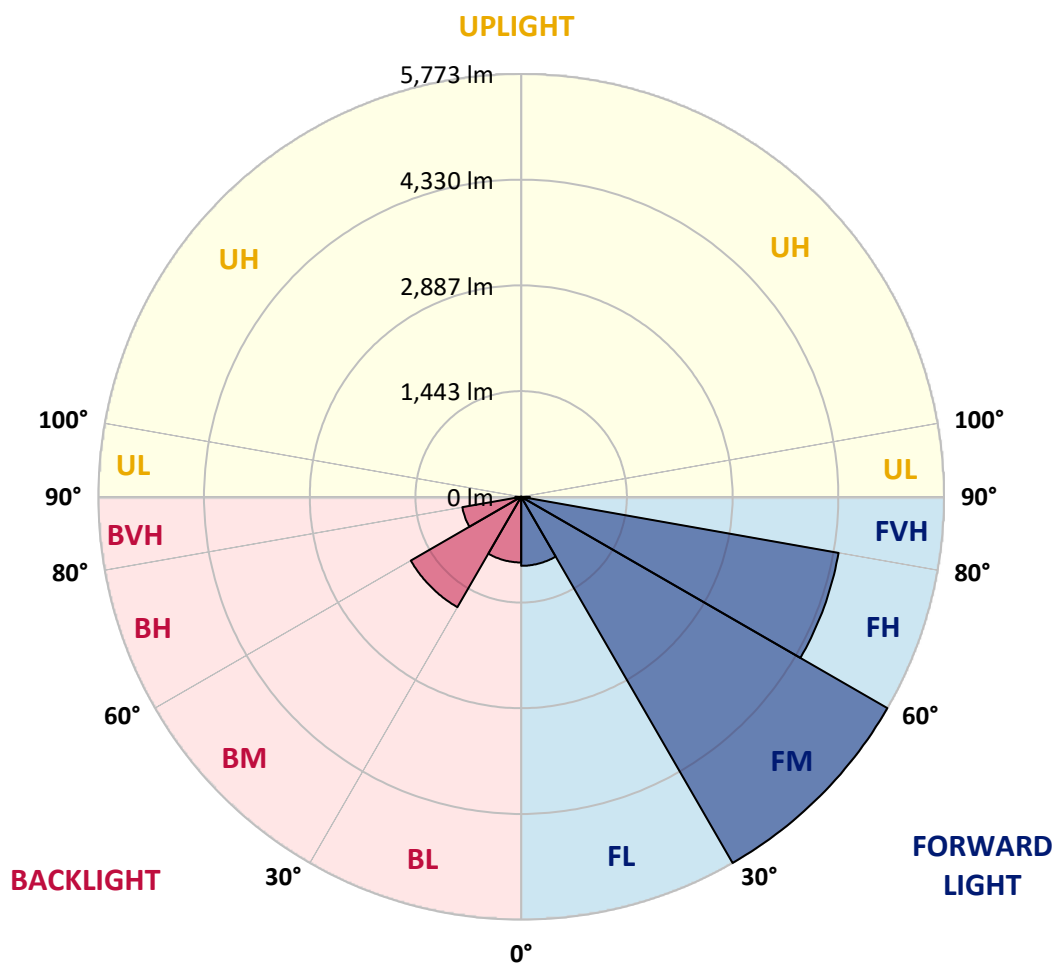
CATALOG NUMBER: USSL-110-8540-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	942.2	6.4			
FM	(30°-60°)	5773.2	39.1			
FH	(60°-80°)	4400.5	29.8			G2/5000
FVH	(80°-90°)	118.7	0.8			G2/225
BL	(0°-30°)	896.2	6.1	B2/1000		
BM	(30°-60°)	1739.9	11.8	B2/2500		
BH	(60°-80°)	815.5	5.5	B2/1000		G2/1000
BVH	(80°-90°)	80.7	0.5			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: P1461791

CATALOG NUMBER: USSL-110-8540-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8
2.5°	1825.3	1829.5	1835.8	1844.9	1859.5	1886.7	1922.2	1952.2	1958.5	1996.1	2021.9
5°	1682.5	1687.3	1692.2	1704.8	1730.5	1761.9	1815.6	1869.9	1884.6	1962.6	2031.6
7.5°	1649.0	1650.4	1652.5	1656.0	1671.3	1697.1	1751.5	1817.7	1833.0	1943.8	2056.0
10°	1688.0	1688.7	1688.0	1683.9	1680.4	1690.1	1727.1	1788.4	1810.0	1943.8	2097.2
12.5°	1768.2	1775.2	1769.6	1754.9	1734.7	1728.5	1745.9	1791.9	1812.1	1966.1	2155.7
15°	1881.1	1888.1	1874.8	1853.2	1823.2	1796.8	1791.9	1821.9	1839.3	2000.3	2235.1
17.5°	2019.1	2016.3	2001.0	1971.7	1930.6	1888.1	1863.7	1875.5	1888.8	2051.8	2322.3
20°	2185.0	2195.4	2163.4	2120.1	2072.1	2007.2	1953.6	1958.5	1962.6	2120.1	2426.8
22.5°	2458.9	2471.4	2410.8	2328.5	2239.3	2150.8	2082.5	2047.7	2060.2	2198.9	2534.8
25°	2730.0	2732.1	2687.5	2607.3	2474.9	2333.4	2230.3	2189.1	2187.1	2313.9	2682.6
27.5°	3014.3	2995.5	2944.7	2858.2	2733.5	2570.4	2414.3	2352.2	2346.0	2474.9	2847.1
30°	3276.4	3266.6	3216.5	3124.5	2980.9	2826.9	2645.7	2566.9	2559.9	2711.9	3080.6
32.5°	3519.6	3522.4	3475.0	3378.2	3261.8	3104.3	2923.7	2849.2	2840.8	3053.4	3374.7
35°	3713.4	3707.1	3678.6	3640.2	3546.1	3406.7	3240.9	3239.5	3259.0	3535.7	3753.1
37.5°	3903.7	3899.5	3854.9	3831.2	3838.2	3715.5	3647.9	3725.9	3767.1	4054.9	4183.1
40°	4217.3	4194.3	4137.1	4068.2	4076.5	4019.4	4044.5	4273.1	4347.6	4635.5	4635.5
42.5°	4452.9	4443.8	4434.1	4407.6	4370.6	4324.6	4469.6	4774.2	4846.7	5138.7	5026.5
45°	4541.4	4553.9	4613.9	4720.5	4713.5	4648.0	4931.7	5321.3	5386.1	5650.2	5417.5
47.5°	4618.1	4632.0	4705.2	4924.7	5039.7	5052.3	5431.4	5855.2	5931.1	6189.0	5779.2
50°	4617.4	4646.6	4792.3	5041.8	5260.0	5449.5	5963.2	6393.9	6470.6	6692.9	6093.5
52.5°	4518.4	4538.6	4786.0	5137.3	5433.5	5854.5	6515.9	6965.4	7000.3	7170.3	6367.4
55°	4408.3	4425.7	4683.6	5158.9	5616.1	6300.5	7088.8	7525.1	7580.1	7660.3	6645.5
57.5°	4280.0	4307.9	4564.4	5093.4	5770.1	6740.3	7675.6	8133.5	8160.0	8132.8	6952.9
60°	4125.3	4136.5	4384.6	4925.4	5857.9	7194.7	8245.0	8773.3	8778.9	8603.3	7204.5
62.5°	3576.1	3587.9	3880.0	4576.2	5795.2	7541.1	8739.9	9315.6	9304.4	8958.7	7323.0
65°	2744.6	2794.1	3088.9	3810.3	5315.0	7693.0	9124.6	9694.7	9654.3	9043.7	7160.6
66°	2505.6	2555.7	2812.9	3430.4	4975.6	7596.9	9172.7	9741.4	9702.4	8981.7	6995.4
67.5°	2242.1	2251.2	2460.3	2929.3	4266.1	7150.8	9011.7	9660.6	9616.6	8707.8	6605.1
70°	1633.7	1676.9	1863.7	2221.9	3009.5	5738.8	8128.6	9021.4	8957.3	7765.5	5616.1
72.5°	1072.6	1090.0	1172.3	1334.0	1916.6	3859.1	6711.0	7619.9	7678.4	6197.4	4181.8
75°	747.8	738.1	703.2	719.3	958.3	1882.5	4698.2	5440.5	5515.0	4011.0	2472.8
77.5°	615.4	602.9	545.7	478.8	490.7	700.4	2487.4	3215.8	3157.2	1966.1	1116.5
80°	531.1	519.2	457.9	398.0	361.7	334.5	783.4	1309.6	1213.4	660.0	386.8
82.5°	424.4	418.2	391.0	334.5	293.4	241.8	244.6	340.8	364.5	246.0	170.1
85°	257.9	255.1	257.2	264.8	209.1	177.0	145.7	153.3	149.1	123.4	105.9
87.5°	133.1	123.4	132.4	158.2	124.1	81.5	61.3	63.4	66.9	63.4	54.4
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: P1461791

CATALOG NUMBER: USSL-110-8540-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8
2.5°	2039.3	2054.6	2079.0	2095.1	2105.5	2111.8	2111.1	2110.4	2108.3	2103.4	2106.2
5°	2061.6	2088.1	2119.5	2129.2	2127.1	2123.6	2118.1	2116.7	2118.8	2114.6	2114.6
7.5°	2099.2	2128.5	2157.8	2152.2	2142.5	2152.9	2169.6	2192.6	2206.6	2214.9	2226.1
10°	2149.4	2189.1	2198.9	2182.2	2193.3	2234.5	2272.1	2297.9	2313.2	2320.9	2328.5
12.5°	2224.7	2258.8	2240.0	2232.4	2281.1	2332.7	2343.2	2324.4	2304.1	2292.3	2293.0
15°	2308.3	2330.6	2292.3	2314.6	2375.2	2370.4	2297.9	2220.5	2164.8	2141.1	2143.8
17.5°	2397.5	2401.7	2351.5	2405.2	2410.8	2298.6	2153.6	2044.9	2008.6	1995.4	1996.8
20°	2502.1	2483.3	2431.0	2483.3	2365.5	2141.8	1983.5	1918.7	1902.7	1909.0	1910.4
22.5°	2595.5	2552.3	2514.6	2500.7	2219.1	1957.8	1856.0	1832.3	1837.2	1848.3	1860.2
25°	2707.7	2629.6	2594.8	2428.2	2026.8	1812.8	1768.2	1771.0	1771.7	1781.4	1790.5
27.5°	2832.4	2718.1	2649.1	2260.2	1822.5	1708.9	1696.4	1698.5	1691.5	1691.5	1699.9
30°	2982.3	2824.1	2658.2	2033.0	1637.9	1615.6	1614.9	1600.2	1571.6	1564.7	1569.6
32.5°	3190.7	2982.3	2618.5	1764.7	1505.4	1524.9	1517.3	1478.9	1439.9	1430.9	1441.3
35°	3498.7	3213.0	2539.7	1518.0	1390.4	1426.7	1417.6	1367.4	1309.6	1287.3	1290.1
37.5°	3814.5	3498.0	2440.1	1314.5	1286.6	1338.2	1317.3	1250.3	1189.0	1147.9	1153.5
40°	4145.5	3785.9	2323.0	1183.4	1196.7	1244.1	1226.0	1143.7	1064.3	1028.0	1044.7
42.5°	4471.0	4061.2	2197.5	1097.7	1111.6	1159.0	1140.2	1053.8	994.6	956.2	962.5
45°	4763.0	4279.3	2083.9	1033.6	1038.5	1075.4	1047.5	998.0	938.1	905.4	903.3
47.5°	5023.7	4441.7	2012.8	982.0	966.0	977.1	973.0	938.1	893.5	862.8	860.0
50°	5247.4	4564.4	2000.3	935.3	887.9	867.7	886.5	876.1	841.2	818.9	816.8
52.5°	5427.9	4676.6	2054.6	887.9	789.7	779.9	807.8	810.6	784.1	774.3	775.0
55°	5646.1	4815.3	2164.8	821.7	702.5	703.9	740.9	743.7	728.3	729.7	732.5
57.5°	5884.4	4972.1	2256.1	735.3	622.4	633.5	683.0	687.9	673.3	678.8	680.9
60°	6085.8	5114.3	2148.7	628.0	550.6	579.2	642.6	639.8	631.4	645.4	648.9
62.5°	6144.4	5078.0	1763.3	534.6	494.1	536.7	614.0	614.7	630.7	655.1	659.3
65°	5937.4	4731.0	1202.3	465.6	448.8	499.7	597.3	621.7	614.7	611.2	615.4
66°	5782.7	4513.5	982.0	441.9	432.1	489.3	593.1	602.9	590.3	589.6	589.6
67.5°	5433.5	4061.9	717.2	411.2	413.3	472.5	568.0	559.7	571.5	582.7	586.8
70°	4606.9	3102.2	453.7	363.8	380.5	428.6	507.4	540.1	561.7	575.0	584.1
72.5°	3414.4	2002.4	323.4	321.3	345.7	384.7	466.3	514.4	532.5	588.9	605.0
75°	2092.3	1113.0	271.8	285.8	296.2	349.2	421.7	485.8	481.6	498.3	502.5
77.5°	904.0	500.4	232.1	247.4	253.0	295.5	375.7	441.2	440.5	458.6	466.3
80°	309.4	227.2	198.6	201.4	219.5	249.5	320.6	382.6	383.3	391.0	382.6
82.5°	164.5	154.7	159.6	165.2	187.5	203.5	264.8	331.1	305.3	216.8	213.3
85°	103.8	92.7	105.2	124.1	137.3	147.8	202.1	249.5	217.5	95.5	85.0
87.5°	41.8	41.8	48.8	65.5	59.2	64.1	108.0	141.5	115.7	38.3	20.2
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)