

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P148808

Luminaire Tested: **VWM-E04-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148808
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E04-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10546.3 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

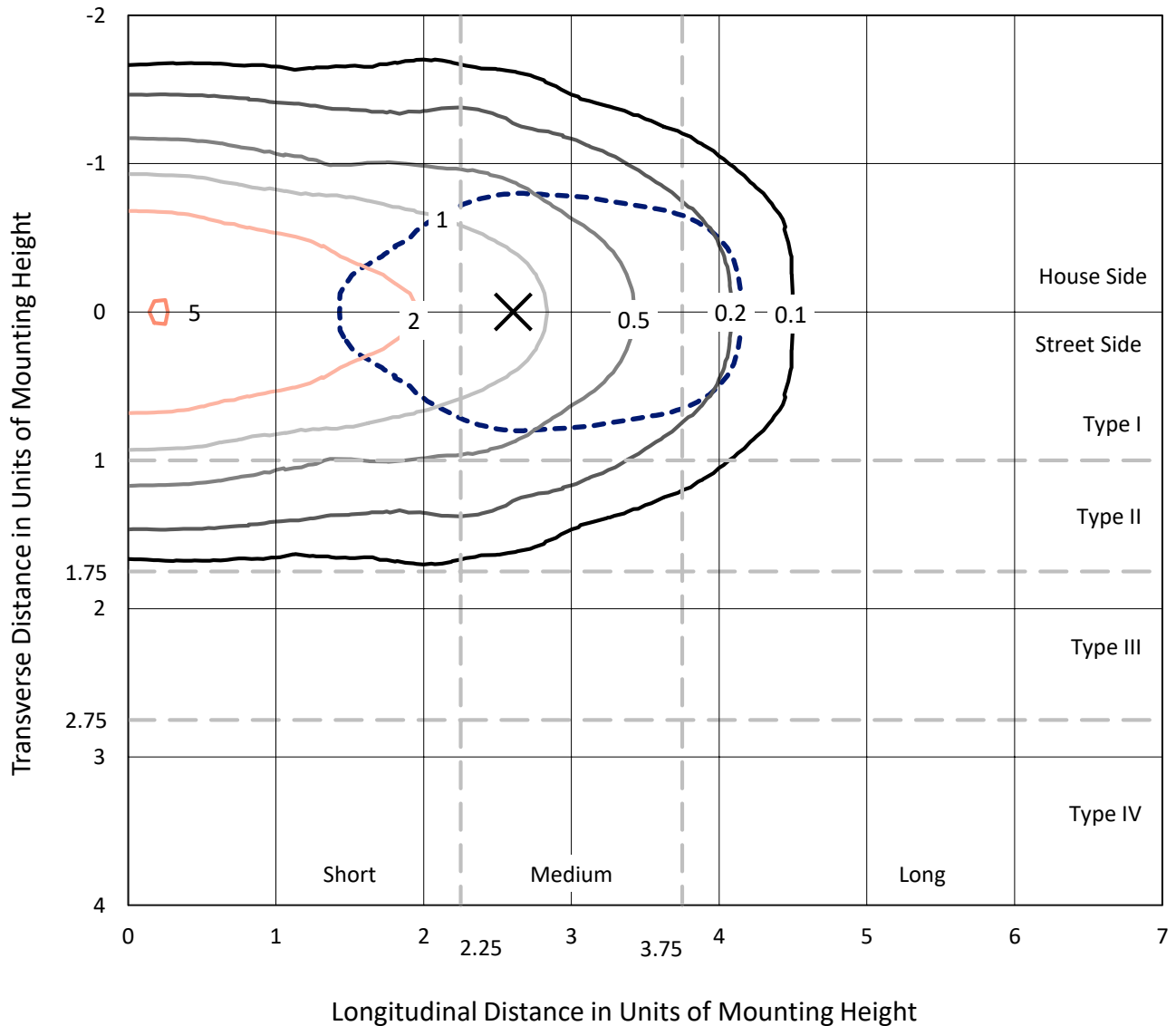
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P148808
 CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

Iso-Footcandle Lines of Horizontal Illumination

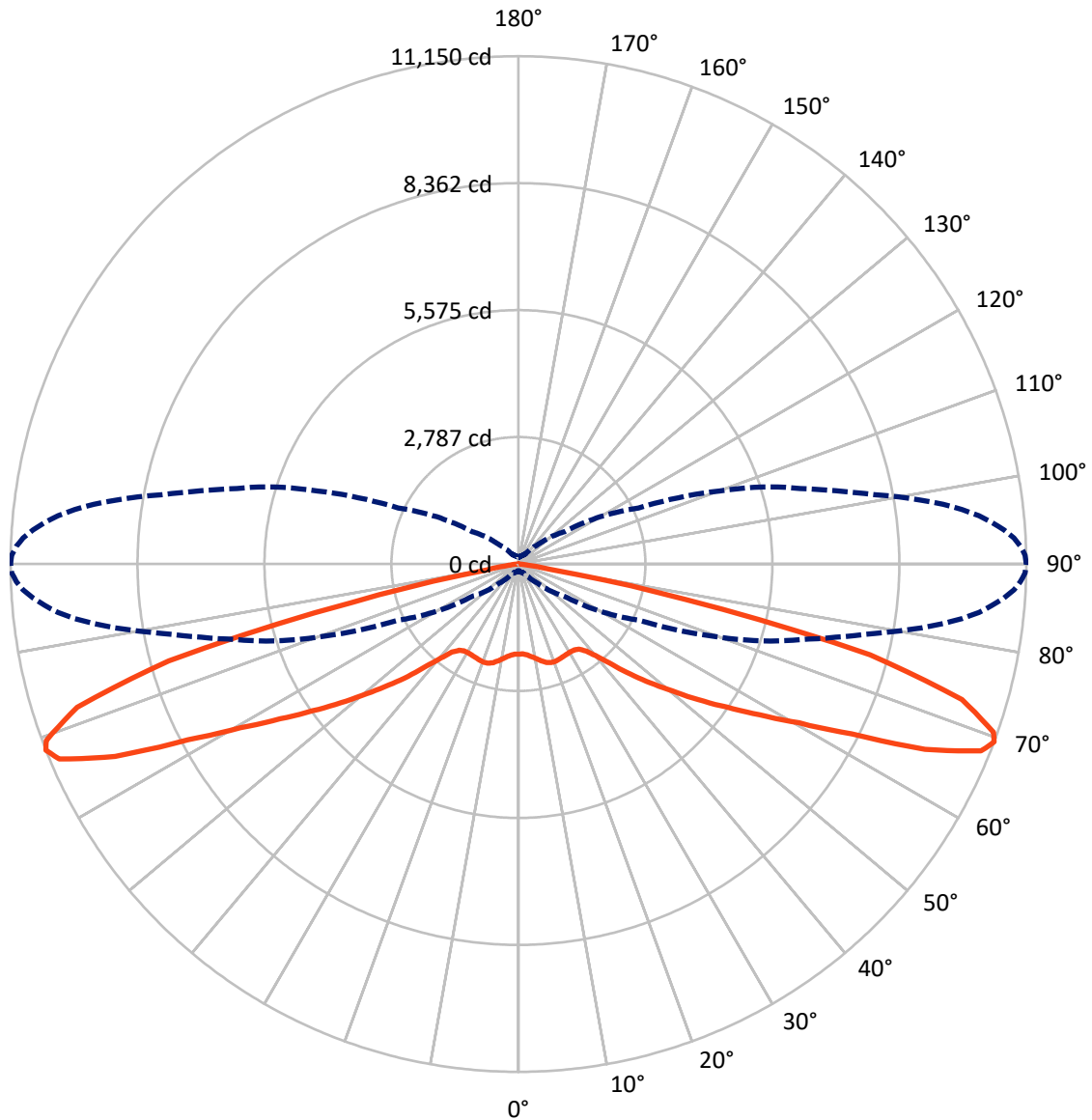
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P148808
CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P148808

CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5273.2	0.0	5273.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5273.2	0.0	5273.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10546.3	0.0	10546.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.8
10°-20°	611.5	5.8
20°-30°	990.6	9.4
30°-40°	1234.6	11.7
40°-50°	1542.7	14.6
50°-60°	1905.0	18.1
60°-70°	2367.0	22.4
70°-80°	1571.4	14.9
80°-90°	129.7	1.2
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°	10546.3	100.0
0°-180°	10546.3	100.0



REPORT NUMBER: P148808

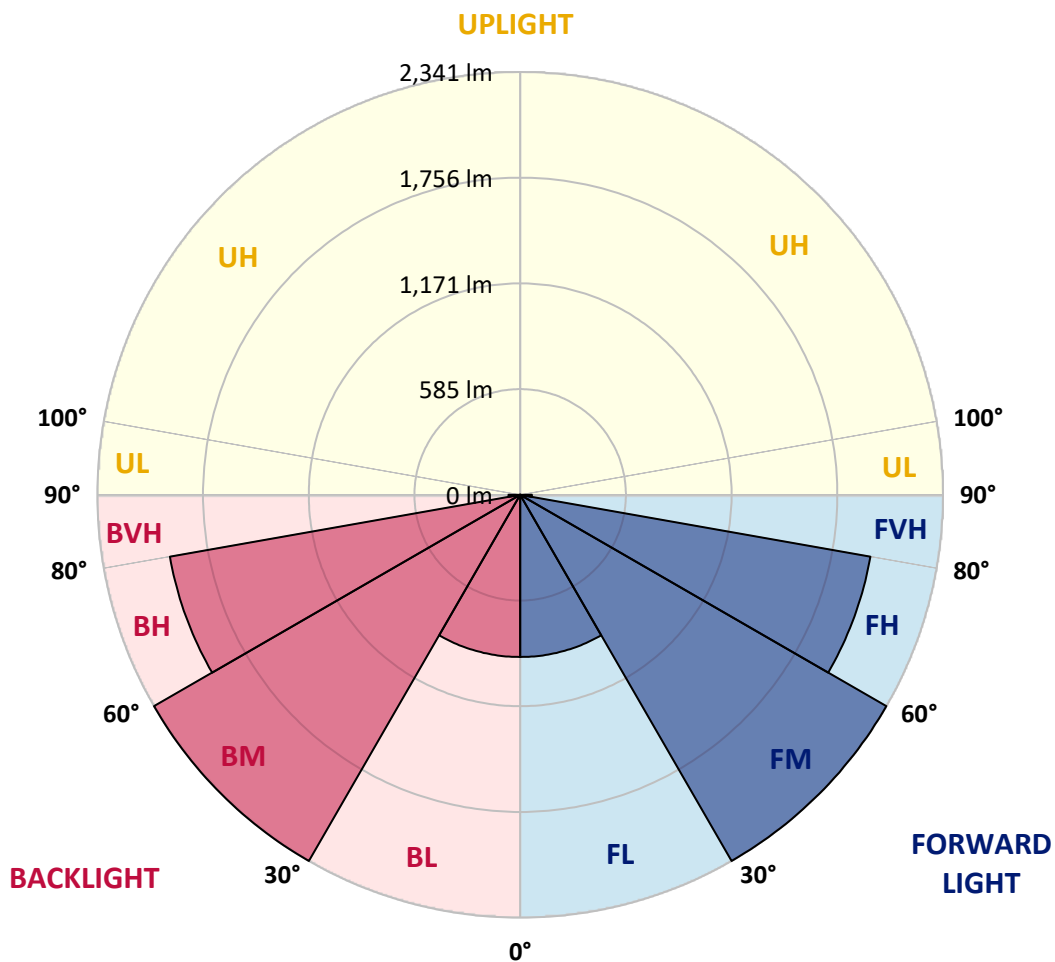
CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.0	8.5			
FM	(30°-60°)	2341.1	22.2			
FH	(60°-80°)	1969.2	18.7			G2/5000
FVH	(80°-90°)	64.9	0.6			G1/100
BL	(0°-30°)	898.0	8.5	B2/1000		
BM	(30°-60°)	2341.1	22.2	B2/2500		
BH	(60°-80°)	1969.2	18.7	B3/2500		G3/2500
BVH	(80°-90°)	64.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P148808

CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1
2.5°	1985.1	1986.8	1985.6	1987.9	1987.4	1987.3	1986.2	1984.0	1983.7	1983.4	1983.1
5°	2004.2	2002.0	2005.4	2008.7	2007.6	2008.2	2007.6	2007.6	2007.3	2007.1	2006.9
7.5°	2024.4	2023.9	2026.2	2035.1	2036.3	2039.6	2043.6	2046.4	2046.5	2046.6	2046.7
10°	2041.9	2042.4	2048.1	2061.0	2067.8	2078.4	2089.1	2097.6	2098.2	2098.8	2099.4
12.5°	2056.0	2056.5	2065.0	2085.2	2101.5	2121.8	2144.9	2157.8	2158.9	2160.0	2161.2
15°	2057.1	2058.8	2073.4	2106.6	2139.2	2172.4	2200.0	2217.4	2218.4	2219.2	2220.2
17.5°	2042.5	2043.6	2068.4	2117.3	2171.8	2223.6	2252.4	2260.2	2260.5	2260.9	2261.2
20°	2004.2	2007.0	2041.9	2114.5	2197.8	2265.2	2295.1	2284.4	2283.3	2282.3	2281.2
22.5°	1942.3	1941.8	1987.4	2085.2	2202.8	2298.0	2324.4	2296.2	2292.9	2289.6	2286.2
25°	1842.2	1848.9	1902.4	2019.4	2174.1	2305.2	2345.2	2302.4	2297.7	2292.9	2288.1
27.5°	1733.6	1737.5	1794.4	1919.8	2107.2	2279.9	2355.3	2314.8	2309.4	2304.1	2298.8
30°	1607.0	1612.0	1672.8	1803.9	1999.6	2214.6	2352.5	2342.9	2336.7	2330.4	2324.2
32.5°	1483.2	1488.8	1543.4	1686.9	1886.6	2125.2	2335.6	2382.9	2376.4	2370.0	2363.6
35°	1354.9	1363.4	1429.7	1574.9	1777.4	2025.6	2309.7	2434.0	2430.5	2427.0	2423.4
37.5°	1248.5	1250.2	1314.4	1466.8	1676.2	1930.5	2275.4	2498.8	2501.3	2503.9	2506.5
40°	1129.8	1140.5	1204.7	1365.6	1584.4	1850.0	2242.8	2586.6	2600.0	2613.4	2626.9
42.5°	1023.4	1024.6	1089.8	1255.8	1484.9	1785.3	2224.8	2692.3	2721.1	2749.8	2778.6
45°	911.5	916.0	975.1	1135.4	1370.1	1708.8	2224.2	2814.4	2860.4	2906.3	2952.2
47.5°	805.8	807.4	869.9	1019.0	1238.4	1601.9	2220.3	2945.6	3008.1	3070.6	3133.1
50°	704.4	702.8	764.1	907.6	1108.4	1461.8	2185.9	3094.1	3173.0	3252.0	3330.9
52.5°	588.6	596.4	660.0	797.2	990.3	1319.4	2085.8	3256.6	3351.1	3445.5	3539.9
55°	474.9	478.3	546.4	674.7	870.4	1186.6	1911.4	3406.4	3517.6	3628.9	3740.2
57.5°	350.0	360.1	419.8	546.3	748.9	1074.7	1689.6	3484.0	3619.4	3754.8	3890.3
60°	247.0	254.8	307.8	414.2	615.6	957.1	1498.9	3440.6	3616.6	3792.6	3968.6
62.5°	192.4	198.6	240.8	310.0	480.0	839.5	1362.2	3300.6	3540.1	3779.5	4019.0
65°	168.8	174.4	212.7	248.2	358.4	719.6	1287.4	3152.6	3469.2	3785.7	4102.3
67.5°	152.4	159.2	192.4	217.2	292.0	627.9	1267.6	3059.2	3417.7	3776.2	4134.8
69°	145.2	151.9	181.8	202.6	271.2	595.3	1233.9	2912.3	3268.7	3625.2	3981.7
70°	140.6	146.3	173.9	195.2	264.4	572.8	1177.6	2728.9	3078.9	3429.0	3779.0
72.5°	130.6	133.4	157.6	178.4	245.3	463.1	905.9	2026.7	2330.1	2633.6	2937.0
75°	115.4	118.7	141.2	161.5	191.3	287.5	573.4	1253.6	1480.1	1706.6	1933.2
77.5°	99.6	102.4	122.1	154.2	148.6	179.5	342.6	697.7	829.1	960.5	1091.8
80°	79.9	83.2	100.7	153.0	122.7	139.6	246.4	487.8	523.3	558.7	594.2
82.5°	58.5	61.4	78.8	123.8	93.9	105.2	187.9	413.6	425.9	438.2	450.5
85°	29.8	30.4	50.1	75.4	59.6	54.6	105.8	283.0	290.9	298.8	306.7
87.5°	5.0	5.0	11.2	13.0	14.6	9.0	13.5	48.3	49.9	51.4	52.9
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: P148808

CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1
2.5°	1982.8	1982.6	1981.6	1981.7	1982.5	1982.1	1982.8	1982.9	1983.6	1981.5	1981.0
5°	2006.7	2006.4	2006.4	2006.2	2006.6	2006.6	2007.0	2007.9	2007.7	2006.3	2006.1
7.5°	2046.9	2047.0	2047.5	2047.0	2048.1	2047.5	2046.4	2048.2	2049.4	2049.6	2050.8
10°	2100.1	2100.7	2102.7	2102.4	2104.4	2104.1	2104.4	2106.2	2107.6	2107.8	2109.2
12.5°	2162.3	2163.4	2164.4	2165.5	2167.6	2166.4	2169.0	2170.2	2171.9	2175.3	2173.5
15°	2221.0	2222.0	2225.0	2225.2	2227.1	2227.9	2230.4	2231.4	2231.8	2234.6	2235.0
17.5°	2261.6	2261.9	2263.0	2262.5	2264.2	2263.6	2265.3	2266.2	2267.6	2269.1	2271.7
20°	2280.1	2279.1	2278.4	2277.8	2276.6	2274.9	2275.4	2276.2	2276.4	2277.8	2279.7
22.5°	2282.9	2279.6	2276.2	2273.9	2270.5	2267.6	2264.7	2265.0	2265.2	2264.8	2266.2
25°	2283.3	2278.5	2273.1	2266.7	2261.9	2255.4	2250.0	2249.6	2248.1	2248.1	2248.8
27.5°	2293.4	2288.0	2280.6	2273.1	2262.8	2254.2	2245.6	2242.5	2239.5	2237.6	2236.8
30°	2317.9	2311.7	2302.7	2293.2	2282.0	2268.6	2256.2	2252.4	2248.0	2244.2	2241.0
32.5°	2357.2	2350.8	2340.9	2331.0	2316.0	2302.7	2290.6	2284.4	2278.2	2271.4	2265.2
35°	2419.9	2416.4	2407.6	2398.9	2387.9	2377.5	2366.6	2359.6	2349.2	2343.9	2336.4
37.5°	2509.1	2511.7	2511.7	2512.9	2509.5	2504.4	2496.6	2489.2	2485.8	2471.8	2462.8
40°	2640.4	2653.8	2666.1	2675.6	2684.0	2692.4	2699.6	2695.4	2696.7	2693.0	2687.6
42.5°	2807.3	2836.1	2862.4	2888.6	2907.6	2937.2	2957.9	2964.4	2981.1	2987.6	2999.8
45°	2998.1	3044.0	3088.1	3128.9	3166.8	3209.2	3250.5	3281.2	3314.8	3352.8	3390.8
47.5°	3195.6	3258.1	3323.1	3376.2	3431.1	3493.8	3548.7	3595.0	3655.3	3711.1	3772.5
50°	3409.8	3488.8	3562.8	3628.3	3698.9	3771.2	3846.4	3914.4	3995.8	4085.2	4181.8
52.5°	3634.4	3728.8	3814.4	3896.7	3979.5	4062.3	4142.4	4238.3	4338.8	4456.7	4577.5
55°	3851.5	3962.8	4059.9	4151.4	4246.3	4338.9	4421.4	4549.8	4673.1	4813.9	4971.5
57.5°	4025.7	4161.2	4273.2	4381.9	4488.8	4587.3	4688.6	4833.5	4990.7	5155.2	5355.2
60°	4144.6	4320.6	4463.7	4594.3	4725.6	4849.5	4966.0	5155.3	5342.4	5546.8	5795.8
62.5°	4258.5	4497.9	4684.5	4862.6	5039.6	5198.6	5343.5	5581.7	5826.0	6078.7	6374.8
65°	4418.8	4735.4	5010.2	5258.5	5503.5	5737.2	5954.1	6255.8	6564.3	6896.9	7250.3
67.5°	4493.3	4851.8	5209.7	5544.5	5855.6	6151.6	6430.1	6794.8	7157.8	7543.4	7970.5
69°	4338.1	4694.5	5077.1	5442.8	5786.5	6100.4	6402.0	6774.3	7151.7	7545.5	7976.4
70°	4129.0	4479.0	4865.2	5247.4	5576.2	5903.3	6215.7	6585.1	6967.5	7362.3	7813.3
72.5°	3240.5	3543.9	3920.5	4291.5	4621.4	4949.5	5253.0	5631.1	6016.0	6430.6	6857.7
75°	2159.7	2386.2	2666.8	3010.9	3313.4	3603.5	3897.6	4217.4	4592.9	4934.6	5325.4
77.5°	1223.2	1354.6	1517.6	1741.4	1958.4	2132.1	2341.8	2492.2	2710.2	2898.4	3097.2
80°	629.6	665.1	713.7	767.4	798.0	793.1	824.3	793.5	800.3	775.1	748.2
82.5°	462.8	475.2	497.2	507.9	506.9	471.4	433.8	381.6	335.6	287.3	243.0
85°	314.5	322.4	327.9	336.2	333.9	318.6	284.7	239.4	195.1	156.5	125.3
87.5°	54.5	56.0	55.6	60.3	60.4	56.1	46.2	39.4	33.2	24.8	17.4
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: P148808

CATALOG NUMBER: VWM-E04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1
2.5°	1980.6	1980.6	1981.7	1980.6	1980.6	1980.6	1980.0	1981.2	1980.6	1978.8	1977.2
5°	2006.4	2004.8	2004.2	2005.3	2006.4	2004.2	2005.9	2007.6	2004.8	2005.3	2004.2
7.5°	2049.8	2049.2	2048.6	2049.8	2049.8	2049.2	2049.8	2048.0	2047.0	2048.6	2050.3
10°	2107.8	2107.1	2108.3	2108.3	2110.6	2109.4	2108.8	2110.6	2109.4	2108.3	2108.9
12.5°	2175.8	2174.1	2177.0	2177.0	2178.6	2178.6	2178.0	2178.6	2178.0	2176.4	2175.2
15°	2236.6	2234.4	2234.9	2239.4	2238.9	2240.0	2240.0	2238.9	2238.3	2237.7	2238.3
17.5°	2273.2	2272.0	2272.0	2274.2	2276.0	2275.4	2275.4	2275.4	2274.8	2275.4	2276.5
20°	2280.0	2279.9	2280.4	2282.7	2285.6	2283.8	2283.9	2285.0	2283.8	2285.0	2285.5
22.5°	2267.0	2268.0	2269.2	2272.0	2272.6	2272.6	2272.6	2273.2	2274.2	2274.3	2275.4
25°	2249.0	2250.1	2251.8	2254.0	2256.3	2256.2	2256.2	2257.4	2257.4	2258.0	2258.5
27.5°	2235.4	2236.6	2238.2	2240.5	2243.3	2243.4	2243.3	2244.4	2244.4	2245.0	2246.1
30°	2237.1	2234.9	2236.6	2237.7	2239.4	2239.4	2238.8	2239.4	2240.0	2240.0	2240.5
32.5°	2261.3	2256.3	2254.6	2254.0	2254.6	2252.9	2252.3	2251.2	2250.0	2250.1	2249.5
35°	2325.5	2317.6	2317.0	2312.6	2308.0	2303.6	2304.1	2300.8	2301.9	2299.0	2296.8
37.5°	2457.1	2448.2	2453.8	2444.2	2438.0	2433.5	2428.4	2421.7	2417.8	2422.8	2422.8
40°	2692.9	2686.7	2685.0	2686.7	2681.0	2683.8	2671.5	2668.2	2660.8	2665.8	2672.6
42.5°	3018.6	3014.8	3036.1	3040.0	3042.3	3045.6	3047.9	3029.4	3028.9	3024.8	3013.6
45°	3421.0	3444.6	3443.5	3469.4	3470.5	3462.6	3466.0	3457.6	3454.2	3441.8	3457.0
47.5°	3834.6	3879.6	3896.4	3902.0	3923.4	3928.5	3908.2	3901.5	3913.3	3893.0	3895.9
50°	4278.5	4326.8	4366.2	4392.7	4407.9	4409.0	4393.8	4390.4	4401.1	4362.8	4380.9
52.5°	4715.1	4788.2	4862.5	4901.9	4930.0	4932.3	4944.1	4930.0	4935.6	4926.6	4944.7
55°	5145.5	5272.1	5359.4	5436.4	5485.4	5527.6	5531.5	5546.7	5547.8	5566.4	5547.8
57.5°	5566.4	5704.3	5856.2	5992.9	6068.8	6116.7	6161.7	6223.0	6236.5	6229.2	6241.0
60°	6063.2	6276.5	6483.0	6640.5	6771.6	6897.1	6964.6	7060.8	7076.0	7117.6	7081.6
62.5°	6691.2	7000.6	7280.8	7493.0	7692.2	7887.4	8034.8	8109.1	8154.1	8241.3	8212.6
65°	7654.4	8025.8	8396.6	8700.4	8979.5	9211.9	9435.8	9542.8	9660.9	9784.6	9807.2
67.5°	8447.8	8907.5	9325.5	9695.8	10034.0	10292.2	10525.2	10710.2	10854.2	10945.4	10952.8
69°	8483.8	8961.5	9415.6	9812.8	10165.6	10440.2	10685.5	10891.4	11031.5	11125.0	11149.7
70°	8311.7	8800.6	9284.5	9685.7	10046.9	10327.7	10587.6	10784.0	10940.4	11035.4	11068.7
72.5°	7343.2	7865.4	8382.5	8734.2	9103.3	9437.5	9645.6	9846.0	10066.6	10095.2	10186.4
75°	5788.6	6227.5	6628.7	6897.6	7206.0	7505.9	7710.2	7763.0	7878.4	8023.6	7971.8
77.5°	3354.6	3489.6	3748.4	3814.8	3758.6	3889.1	3932.4	3840.2	3835.6	3920.6	3751.8
80°	743.2	701.1	754.0	714.6	715.7	716.8	705.0	700.5	709.0	700.6	688.7
82.5°	206.0	199.2	200.3	198.1	202.0	199.2	197.5	202.0	201.4	200.9	204.8
85°	99.0	97.9	96.2	95.7	93.4	90.6	86.1	86.1	88.4	85.0	86.6
87.5°	13.0	12.4	12.4	14.6	13.0	10.7	10.7	10.7	10.2	10.2	10.1
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)