

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: P151105

Luminaire Tested: **VWM-F05-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151105
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F05-LED-E1-SL3
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12532.1 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

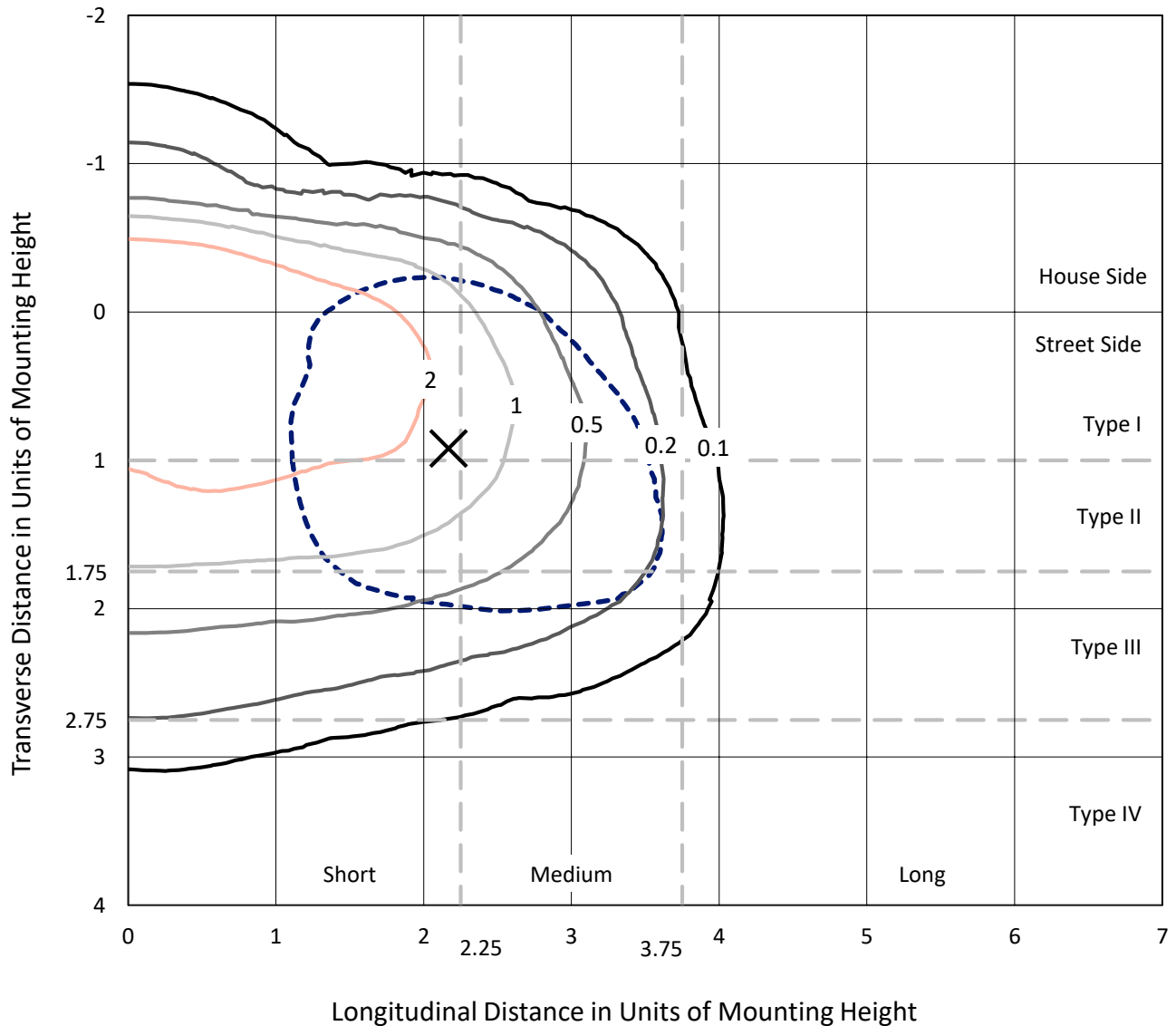
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

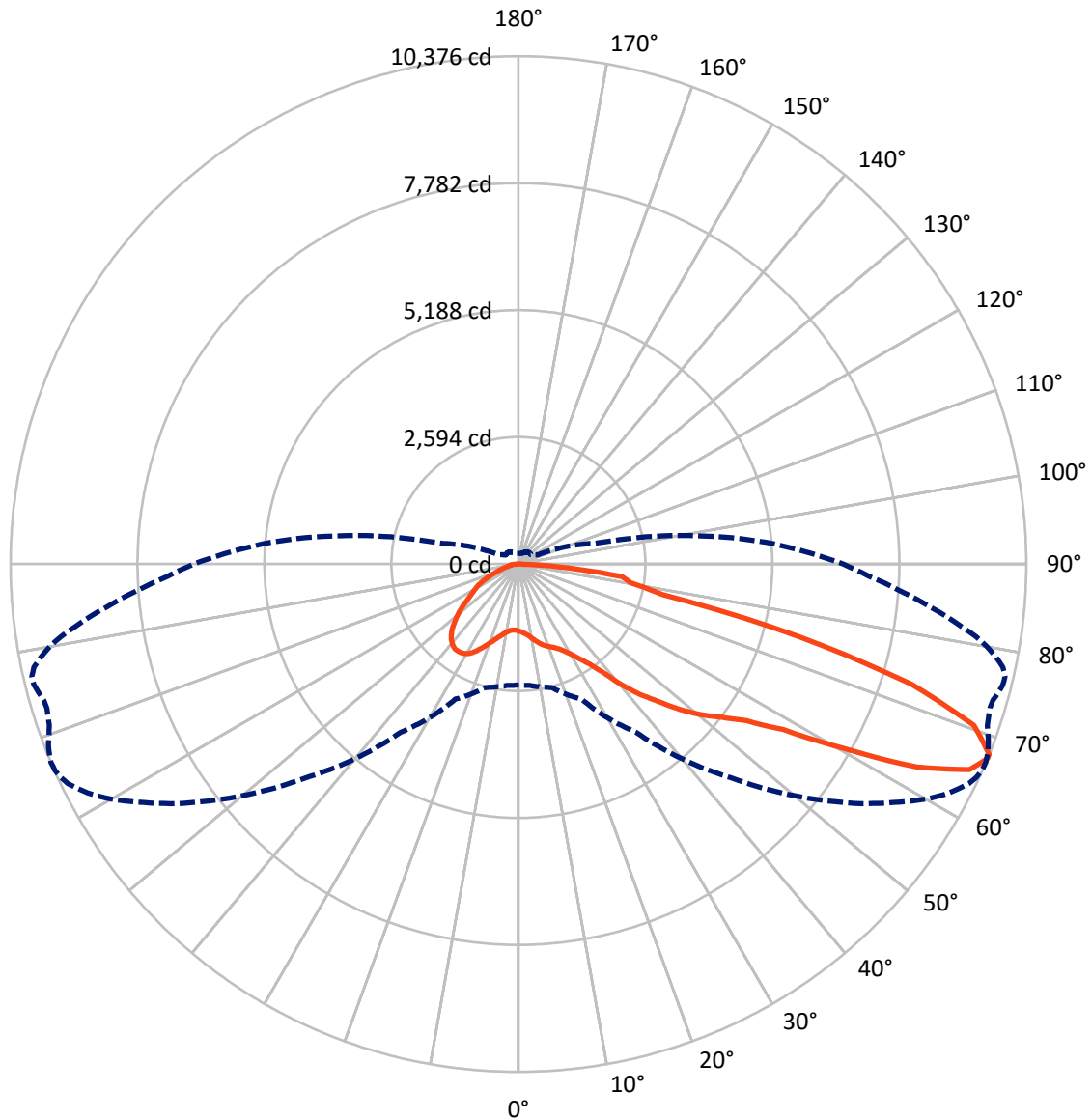
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2892.0	0.0	2892.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	9640.2	0.0	9640.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	12532.1	0.0	12532.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.1
10°-20°	467.4	3.7
20°-30°	825.2	6.6
30°-40°	1184.5	9.5
40°-50°	1799.0	14.4
50°-60°	2648.8	21.1
60°-70°	3520.1	28.1
70°-80°	1722.1	13.7
80°-90°	228.7	1.8
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°	12532.1	100.0
0°-180°	12532.1	100.0



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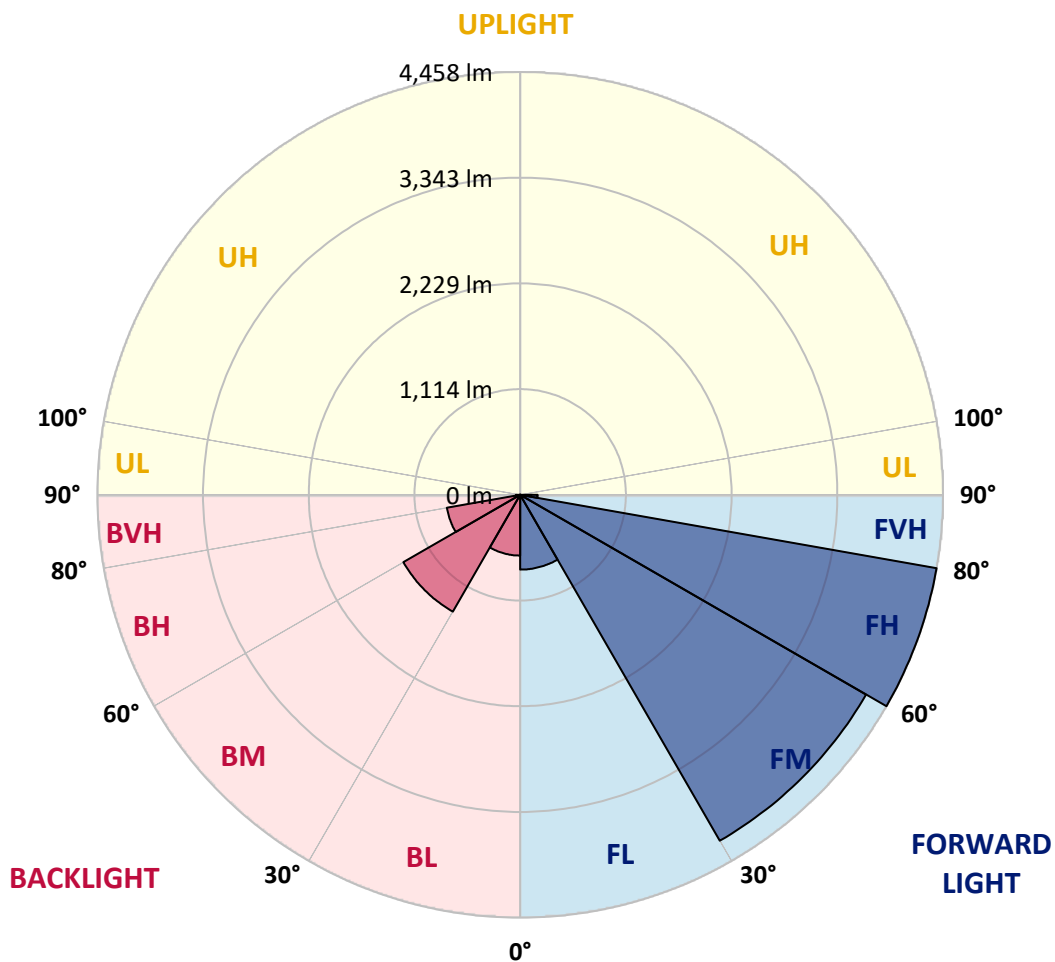
CATALOG NUMBER: VWM-F05-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	788.4	6.3			
FM	(30°-60°)	4210.5	33.6			
FH	(60°-80°)	4457.6	35.6			G2/5000
FVH	(80°-90°)	183.7	1.5			G2/225
BL	(0°-30°)	640.5	5.1	B2/1000		
BM	(30°-60°)	1421.8	11.3	B2/2500		
BH	(60°-80°)	784.7	6.3	B2/1000		G2/1000
BVH	(80°-90°)	45.0	0.4			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0
2.5°	1433.7	1435.0	1432.3	1430.9	1422.7	1414.4	1408.9	1402.0	1402.0	1402.0	1399.3
5°	1514.8	1509.3	1513.5	1503.8	1487.3	1472.2	1457.1	1444.7	1441.9	1441.9	1436.4
7.5°	1612.5	1605.6	1602.9	1589.1	1564.4	1542.4	1512.1	1499.7	1492.8	1490.1	1487.3
10°	1730.9	1730.9	1713.0	1689.6	1656.6	1618.0	1585.0	1563.0	1561.6	1561.6	1549.2
12.5°	1851.9	1854.7	1831.3	1807.9	1754.2	1703.3	1664.8	1640.0	1638.7	1633.2	1626.3
15°	1963.4	1956.5	1941.4	1907.0	1847.8	1787.3	1739.1	1714.3	1708.8	1703.3	1699.2
17.5°	2055.6	2048.7	2029.4	1985.4	1923.5	1851.9	1792.8	1766.6	1763.9	1761.1	1755.6
20°	2113.3	2107.8	2080.3	2029.4	1964.7	1891.8	1828.5	1810.7	1805.1	1805.1	1802.4
22.5°	2146.4	2138.1	2098.2	2030.8	1967.5	1913.8	1861.6	1850.6	1846.4	1847.8	1847.8
25°	2162.9	2156.0	2099.6	2003.3	1942.7	1927.6	1905.6	1898.7	1900.1	1901.5	1904.2
27.5°	2165.6	2156.0	2090.0	1967.5	1911.1	1953.7	1968.9	1979.9	1979.9	1985.4	1995.0
30°	2145.0	2134.0	2070.7	1940.0	1897.3	2006.0	2066.6	2095.5	2106.5	2103.7	2125.7
32.5°	2109.2	2102.3	2051.4	1940.0	1935.9	2109.2	2216.5	2257.8	2263.3	2266.1	2290.8
35°	2096.8	2095.5	2073.4	2006.0	2055.6	2290.8	2454.6	2486.2	2493.1	2493.1	2511.0
37.5°	2094.1	2101.0	2125.7	2129.9	2266.1	2560.5	2775.1	2823.3	2823.3	2837.1	2837.1
40°	2094.1	2109.2	2202.8	2314.2	2523.4	2911.4	3208.5	3263.6	3263.6	3278.7	3270.5
42.5°	2175.3	2197.3	2351.4	2563.3	2848.1	3273.2	3614.4	3676.3	3680.5	3676.3	3688.7
45°	2334.9	2354.1	2541.2	2845.3	3182.4	3661.2	4002.4	4076.7	4061.6	4071.2	4075.3
47.5°	2546.7	2577.0	2790.3	3153.5	3508.5	4020.3	4437.2	4504.6	4499.1	4503.2	4485.4
50°	2772.4	2804.0	3042.1	3458.9	3833.2	4309.2	4786.7	4887.1	4877.5	4884.4	4894.0
52.5°	2971.9	2991.2	3220.9	3688.7	4079.5	4578.9	5055.0	5180.2	5202.2	5204.9	5211.8
55°	3090.2	3113.6	3324.1	3802.9	4258.3	4843.1	5361.8	5551.7	5594.3	5605.3	5635.6
57.5°	3131.5	3156.3	3347.5	3819.4	4356.0	5090.7	5789.7	6124.0	6159.8	6219.0	6315.3
60°	3130.1	3156.3	3322.7	3782.3	4455.1	5397.6	6455.6	7015.6	7197.2	7257.7	7395.3
62.5°	3002.2	3032.4	3201.7	3669.5	4581.7	5789.7	7446.2	8307.5	8541.4	8651.5	8800.1
65°	2721.5	2743.5	2901.7	3383.3	4545.9	6176.3	8274.5	9349.1	9562.3	9723.3	9988.9
67°	2472.4	2486.2	2610.0	3044.8	4196.4	6190.1	8535.9	9607.7	9793.5	9964.1	10237.9
67.5°	2409.2	2438.1	2534.4	2941.6	4065.7	6111.6	8518.0	9567.8	9757.7	9935.2	10224.1
70°	1960.6	2001.9	2050.1	2323.9	3196.2	5141.6	7886.5	8877.1	9043.6	9208.7	9611.9
72.5°	1209.4	1283.7	1293.3	1466.7	2080.3	3553.9	6381.3	7486.1	7611.3	7729.7	8142.4
75°	712.7	723.7	758.1	898.4	1220.4	2124.4	4281.7	5561.3	5676.9	5734.6	6058.0
77.5°	397.6	408.6	437.5	558.6	938.3	1430.9	2493.1	3267.7	3337.9	3410.8	3358.5
80°	165.1	180.2	194.0	225.6	438.9	1129.6	1714.3	2077.6	2123.0	2165.6	2219.3
82.5°	79.8	85.3	104.6	119.7	159.6	463.7	1344.2	1801.0	1854.7	1916.6	2041.8
85°	37.1	41.3	57.8	68.8	77.0	116.9	449.9	876.4	950.7	964.5	989.3
87.5°	2.8	2.8	6.9	9.6	13.8	15.1	46.8	66.0	74.3	67.4	85.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0
2.5°	1397.9	1396.5	1393.8	1393.8	1392.4	1392.4	1392.4	1389.6	1389.6	1389.6	1388.3
5°	1435.0	1433.7	1429.5	1429.5	1426.8	1426.8	1422.7	1421.3	1418.5	1418.5	1417.2
7.5°	1483.2	1481.8	1476.3	1476.3	1472.2	1470.8	1468.1	1463.9	1463.9	1461.2	1458.4
10°	1549.2	1545.1	1543.7	1536.9	1538.2	1535.5	1532.7	1528.6	1525.8	1523.1	1520.3
12.5°	1623.5	1623.5	1616.7	1612.5	1615.3	1612.5	1607.0	1605.6	1601.5	1601.5	1597.4
15°	1693.7	1693.7	1691.0	1685.4	1686.8	1682.7	1681.3	1678.6	1673.1	1674.4	1673.1
17.5°	1754.2	1754.2	1750.1	1747.4	1747.4	1743.2	1744.6	1741.9	1739.1	1737.7	1733.6
20°	1802.4	1802.4	1799.6	1796.9	1798.3	1798.3	1794.1	1794.1	1794.1	1791.4	1791.4
22.5°	1849.2	1850.6	1850.6	1850.6	1851.9	1853.3	1851.9	1854.7	1853.3	1856.1	1856.1
25°	1911.1	1915.2	1918.0	1918.0	1924.8	1926.2	1927.6	1931.7	1931.7	1935.9	1937.2
27.5°	2003.3	2006.0	2017.0	2019.8	2021.2	2032.2	2033.5	2039.0	2044.6	2045.9	2047.3
30°	2129.9	2136.7	2145.0	2150.5	2150.5	2164.3	2169.8	2167.0	2182.1	2186.3	2191.8
32.5°	2299.1	2304.6	2312.8	2318.3	2323.9	2330.7	2332.1	2339.0	2351.4	2362.4	2355.5
35°	2512.3	2526.1	2512.3	2527.5	2531.6	2541.2	2538.5	2546.7	2552.2	2556.4	2555.0
37.5°	2821.9	2815.0	2812.3	2806.8	2797.2	2830.2	2813.7	2812.3	2804.0	2827.4	2812.3
40°	3229.2	3233.3	3237.4	3215.4	3203.0	3203.0	3198.9	3183.8	3176.9	3197.5	3194.8
42.5°	3654.3	3658.5	3639.2	3625.4	3593.8	3589.7	3570.4	3566.3	3559.4	3570.4	3559.4
45°	4040.9	4043.7	4001.0	4007.9	3983.2	3987.3	3957.0	3969.4	3952.9	3963.9	3984.5
47.5°	4473.0	4478.5	4441.3	4456.5	4431.7	4416.6	4415.2	4423.4	4405.6	4416.6	4422.1
50°	4865.1	4858.2	4839.0	4843.1	4832.1	4834.8	4818.3	4833.4	4812.8	4834.8	4832.1
52.5°	5213.2	5204.9	5200.8	5214.6	5204.9	5204.9	5195.3	5202.2	5204.9	5238.0	5244.8
55°	5635.6	5642.5	5649.3	5674.1	5685.1	5667.2	5685.1	5719.5	5720.9	5799.3	5842.0
57.5°	6313.9	6362.0	6386.8	6401.9	6466.6	6459.7	6501.0	6583.6	6591.8	6773.4	6879.4
60°	7497.1	7582.4	7663.6	7619.6	7750.3	7790.2	7815.0	7969.1	8017.2	8189.2	8281.4
62.5°	8991.3	9001.0	9127.6	9087.7	9162.0	9144.1	9174.3	9244.5	9307.8	9449.5	9536.2
65°	10034.3	10079.7	10129.2	10078.3	10076.9	10016.4	9977.8	9976.5	10015.0	10045.3	10141.6
67°	10317.7	10363.1	10375.5	10338.3	10284.7	10207.6	10136.1	10098.9	10074.2	10087.9	10148.5
67.5°	10314.9	10357.6	10372.7	10336.9	10262.7	10198.0	10122.3	10079.7	10046.6	10053.5	10104.4
70°	9728.8	9821.0	9870.5	9881.5	9871.9	9759.1	9694.4	9655.9	9628.4	9561.0	9556.8
72.5°	8242.9	8354.3	8392.8	8454.8	8482.3	8315.8	8245.6	8288.3	8192.0	7978.7	7988.3
75°	6052.5	6060.7	5931.4	5906.6	5814.4	5437.5	5324.6	5221.4	5056.3	4799.1	4556.9
77.5°	3154.9	3153.5	3004.9	2929.2	2819.2	2592.1	2581.1	2396.8	2267.4	2032.2	1946.9
80°	2241.3	2277.1	2326.6	2351.4	2312.8	2224.8	2103.7	1973.0	1823.0	1675.8	1499.7
82.5°	2084.5	2106.5	2132.6	2036.3	1982.6	1858.8	1766.6	1576.8	1470.8	1303.0	1125.5
85°	1014.0	1081.4	1029.2	968.6	948.0	741.6	716.8	598.5	543.5	447.2	416.9
87.5°	64.7	79.8	71.5	64.7	56.4	31.6	42.7	30.3	31.6	23.4	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0
2.5°	1388.3	1386.9	1385.5	1384.1	1382.8	1382.8	1381.4	1380.0	1378.6	1375.9	1375.9
5°	1414.4	1414.4	1413.0	1410.3	1410.3	1407.5	1403.4	1402.0	1402.0	1399.3	1396.5
7.5°	1457.1	1455.7	1452.9	1451.5	1448.8	1446.0	1443.3	1440.5	1439.2	1435.0	1433.7
10°	1521.7	1519.0	1512.1	1509.3	1508.0	1505.2	1502.5	1499.7	1495.6	1492.8	1491.4
12.5°	1594.6	1593.3	1587.8	1590.5	1583.6	1580.9	1578.1	1571.2	1574.0	1568.5	1565.7
15°	1667.6	1668.9	1666.2	1666.2	1660.7	1656.6	1653.8	1648.3	1646.9	1644.2	1641.4
17.5°	1732.2	1735.0	1730.9	1728.1	1725.3	1722.6	1717.1	1711.6	1711.6	1706.1	1703.3
20°	1791.4	1794.1	1792.8	1790.0	1785.9	1784.5	1781.8	1777.6	1777.6	1774.9	1770.8
22.5°	1858.8	1860.2	1860.2	1858.8	1854.7	1856.1	1853.3	1849.2	1850.6	1845.0	1845.0
25°	1940.0	1942.7	1945.5	1946.9	1944.1	1945.5	1942.7	1940.0	1938.6	1940.0	1938.6
27.5°	2051.4	2054.2	2062.4	2055.6	2062.4	2063.8	2059.7	2054.2	2058.3	2065.2	2061.1
30°	2198.6	2195.9	2206.9	2208.3	2206.9	2208.3	2205.5	2201.4	2204.2	2216.5	2209.7
32.5°	2363.8	2369.3	2372.0	2374.8	2378.9	2384.4	2380.3	2376.1	2383.0	2378.9	2388.5
35°	2563.3	2575.6	2579.8	2575.6	2578.4	2588.0	2586.6	2588.0	2601.8	2588.0	2605.9
37.5°	2815.0	2827.4	2837.1	2831.6	2838.4	2838.4	2849.4	2879.7	2860.4	2885.2	2904.5
40°	3181.0	3200.3	3201.7	3200.3	3207.2	3215.4	3226.4	3259.4	3237.4	3263.6	3281.5
42.5°	3558.0	3581.4	3589.7	3575.9	3591.0	3608.9	3610.3	3639.2	3640.6	3644.7	3654.3
45°	3983.2	4003.8	4020.3	4013.4	4014.8	4038.2	4032.7	4060.2	4039.6	4039.6	4045.1
47.5°	4435.8	4455.1	4466.1	4477.1	4463.3	4484.0	4493.6	4488.1	4463.3	4457.8	4424.8
50°	4848.6	4865.1	4881.6	4911.9	4910.5	4920.1	4927.0	4902.2	4896.7	4866.5	4829.3
52.5°	5286.1	5328.8	5365.9	5429.2	5438.8	5471.9	5459.5	5418.2	5411.3	5361.8	5312.3
55°	5895.6	6018.1	6071.7	6169.4	6235.5	6234.1	6206.6	6199.7	6147.4	6048.3	5989.2
57.5°	6956.4	7147.7	7239.9	7366.4	7387.1	7374.7	7338.9	7275.6	7184.8	7018.3	6911.0
60°	8487.8	8606.1	8713.4	8743.7	8758.8	8735.4	8610.2	8469.9	8292.4	8062.6	7871.4
62.5°	9644.9	9766.0	9845.8	9833.4	9738.4	9618.7	9435.7	9200.5	8951.4	8694.2	8408.0
65°	10233.8	10284.7	10272.3	10176.0	10013.6	9804.5	9537.6	9247.3	8954.2	8650.1	8352.9
67°	10202.1	10203.5	10119.6	9932.4	9724.7	9461.9	9135.8	8819.4	8475.4	8156.2	7802.6
67.5°	10145.7	10140.2	10023.2	9818.2	9594.0	9322.9	8984.5	8657.0	8300.7	7978.7	7612.7
70°	9507.3	9430.2	9166.1	8838.6	8526.3	8160.3	7805.3	7429.7	7028.0	6751.4	6330.4
72.5°	7812.2	7552.2	7096.8	6754.2	6419.8	5941.0	5719.5	5253.1	4971.0	4794.9	4477.1
75°	4523.9	4306.5	3954.3	3633.7	3471.3	3187.9	3053.1	2710.5	2638.9	2636.2	2526.1
77.5°	1726.7	1506.6	1279.6	1030.5	876.4	696.2	613.6	549.0	499.4	533.8	484.3
80°	1294.7	1064.9	832.4	605.4	432.0	319.2	273.8	253.2	240.8	231.1	224.3
82.5°	964.5	760.9	590.3	385.2	269.7	203.6	176.1	165.1	159.6	150.0	141.7
85°	326.1	261.4	206.4	143.1	112.8	92.2	85.3	82.6	78.4	71.5	67.4
87.5°	17.9	16.5	17.9	13.8	16.5	13.8	15.1	15.1	15.1	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0	1369.0
2.5°	1374.5	1374.5	1374.5	1371.7	1367.6	1359.4	1351.1	1344.2	1337.4	1333.2	1330.5
5°	1395.1	1392.4	1391.0	1389.6	1380.0	1363.5	1348.4	1334.6	1320.8	1309.8	1305.7
7.5°	1432.3	1426.8	1425.4	1421.3	1408.9	1384.1	1362.1	1340.1	1320.8	1305.7	1298.8
10°	1488.7	1488.7	1480.4	1474.9	1461.2	1428.2	1396.5	1367.6	1341.5	1325.0	1320.8
12.5°	1560.2	1560.2	1553.4	1549.2	1532.7	1490.1	1451.5	1417.2	1392.4	1375.9	1374.5
15°	1634.5	1633.2	1627.7	1622.2	1604.3	1558.9	1520.3	1490.1	1469.4	1450.2	1444.7
17.5°	1700.6	1700.6	1693.7	1688.2	1670.3	1631.8	1597.4	1575.4	1552.0	1512.1	1481.8
20°	1766.6	1768.0	1762.5	1757.0	1741.9	1708.8	1693.7	1671.7	1619.4	1532.7	1461.2
22.5°	1839.5	1845.0	1838.2	1832.7	1820.3	1806.5	1801.0	1748.7	1638.7	1499.7	1395.1
25°	1933.1	1942.7	1934.5	1931.7	1924.8	1929.0	1912.5	1791.4	1611.1	1428.2	1297.5
27.5°	2061.1	2061.1	2062.4	2062.4	2059.7	2074.8	2014.3	1792.8	1550.6	1336.0	1180.5
30°	2211.0	2219.3	2216.5	2216.5	2227.5	2237.2	2070.7	1762.5	1473.6	1221.8	1037.4
32.5°	2391.3	2398.1	2400.9	2388.5	2432.5	2383.0	2091.3	1707.5	1378.6	1080.1	866.8
35°	2608.7	2618.3	2625.2	2626.5	2655.4	2509.6	2080.3	1626.3	1242.4	902.6	679.7
37.5°	2892.1	2911.4	2926.5	2933.4	2934.7	2616.9	2050.1	1519.0	1064.9	704.4	506.3
40°	3269.1	3289.7	3285.6	3299.3	3220.9	2680.2	1981.3	1363.5	844.8	517.3	390.7
42.5°	3632.3	3635.1	3640.6	3628.2	3468.6	2713.2	1884.9	1173.6	632.9	386.6	334.3
45°	4038.2	4014.8	3988.7	3969.4	3697.0	2725.6	1752.9	942.5	447.2	324.7	309.6
47.5°	4419.3	4387.7	4334.0	4279.0	3900.6	2706.3	1583.6	705.8	339.8	297.2	293.1
50°	4793.5	4734.4	4658.7	4595.4	4096.0	2677.5	1396.5	509.1	297.2	283.4	279.3
52.5°	5257.2	5158.2	5059.1	4976.5	4350.5	2632.0	1199.8	386.6	279.3	272.4	266.9
55°	5892.9	5755.3	5595.7	5480.1	4695.9	2563.3	993.4	327.5	271.0	265.5	257.3
57.5°	6773.4	6567.1	6386.8	6198.3	5167.8	2493.1	815.9	304.1	269.7	261.4	250.4
60°	7673.3	7425.6	7195.8	6926.2	5649.3	2422.9	692.1	301.3	273.8	261.4	244.9
62.5°	8141.1	7885.1	7608.6	7334.8	5857.1	2257.8	606.8	305.4	283.4	265.5	244.9
65°	8033.7	7721.4	7440.7	7161.4	5616.3	1945.5	513.2	310.9	302.7	282.1	249.0
67°	7494.4	7168.3	6898.6	6631.7	5079.7	1629.0	440.3	316.5	323.3	301.3	257.3
67.5°	7304.5	6978.4	6712.9	6452.9	4921.5	1563.0	422.4	319.2	327.5	306.8	260.0
70°	6056.6	5817.2	5535.1	5334.3	3984.5	1157.1	346.7	324.7	352.2	338.5	272.4
72.5°	4358.8	4130.4	3918.5	3807.0	2934.7	809.0	291.7	319.2	367.4	356.4	277.9
75°	2317.0	2303.2	2226.2	2281.2	1816.2	528.3	257.3	298.6	350.8	326.1	258.7
77.5°	467.8	481.6	565.5	557.2	586.1	294.4	220.1	255.9	271.0	239.4	210.5
80°	217.4	213.3	209.1	211.9	207.8	188.5	178.9	200.9	188.5	154.1	140.3
82.5°	134.8	132.1	128.0	126.6	140.3	150.0	156.8	158.2	125.2	107.3	103.2
85°	64.7	64.7	63.3	66.0	82.6	122.5	132.1	116.9	83.9	77.0	72.9
87.5°	12.4	12.4	13.8	12.4	16.5	28.9	33.0	38.5	31.6	33.0	37.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VWM-F05-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	1369.0	1369.0	1369.0
2.5°	1327.7	1325.0	1325.0
5°	1300.2	1298.8	1298.8
7.5°	1293.3	1294.7	1293.3
10°	1319.5	1318.1	1323.6
12.5°	1377.3	1381.4	1380.0
15°	1437.8	1440.5	1440.5
17.5°	1455.7	1446.0	1444.7
20°	1408.9	1391.0	1386.9
22.5°	1320.8	1287.8	1289.2
25°	1209.4	1169.5	1172.2
27.5°	1080.1	1037.4	1036.0
30°	924.6	877.8	854.4
32.5°	737.5	681.1	681.1
35°	554.5	509.1	492.6
37.5°	421.0	394.9	386.6
40°	350.8	338.5	335.7
42.5°	319.2	315.1	313.7
45°	302.7	299.9	298.6
47.5°	287.6	286.2	284.8
50°	276.6	275.2	273.8
52.5°	266.9	264.2	262.8
55°	253.2	253.2	253.2
57.5°	244.9	244.9	243.5
60°	236.7	235.3	235.3
62.5°	229.8	227.0	228.4
65°	225.6	221.5	221.5
67°	222.9	214.6	214.6
67.5°	222.9	211.9	211.9
70°	218.8	200.9	198.1
72.5°	214.6	188.5	184.4
75°	203.6	178.9	174.7
77.5°	174.7	159.6	156.8
80°	134.8	116.9	119.7
82.5°	97.7	83.9	82.6
85°	70.2	60.5	60.5
87.5°	37.1	31.6	33.0
90°	0.0	0.0	0.0

(END OF REPORT)