

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: P149945

Luminaire Tested: **VWM-F03-LED-E1-SL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149945  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-F03-LED-E1-SL2  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7566.2 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

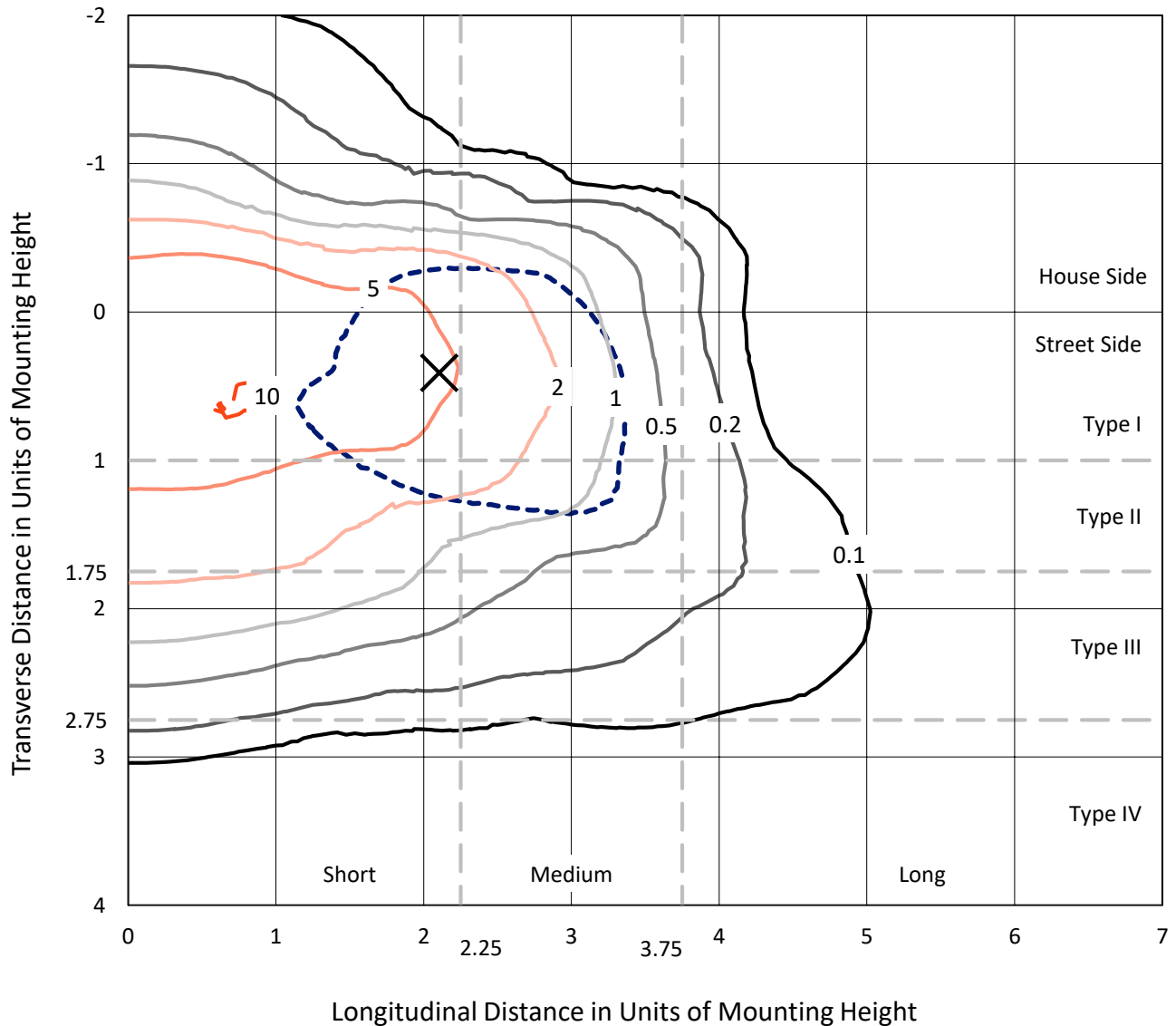
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: VWM-F03-LED-E1-SL2

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

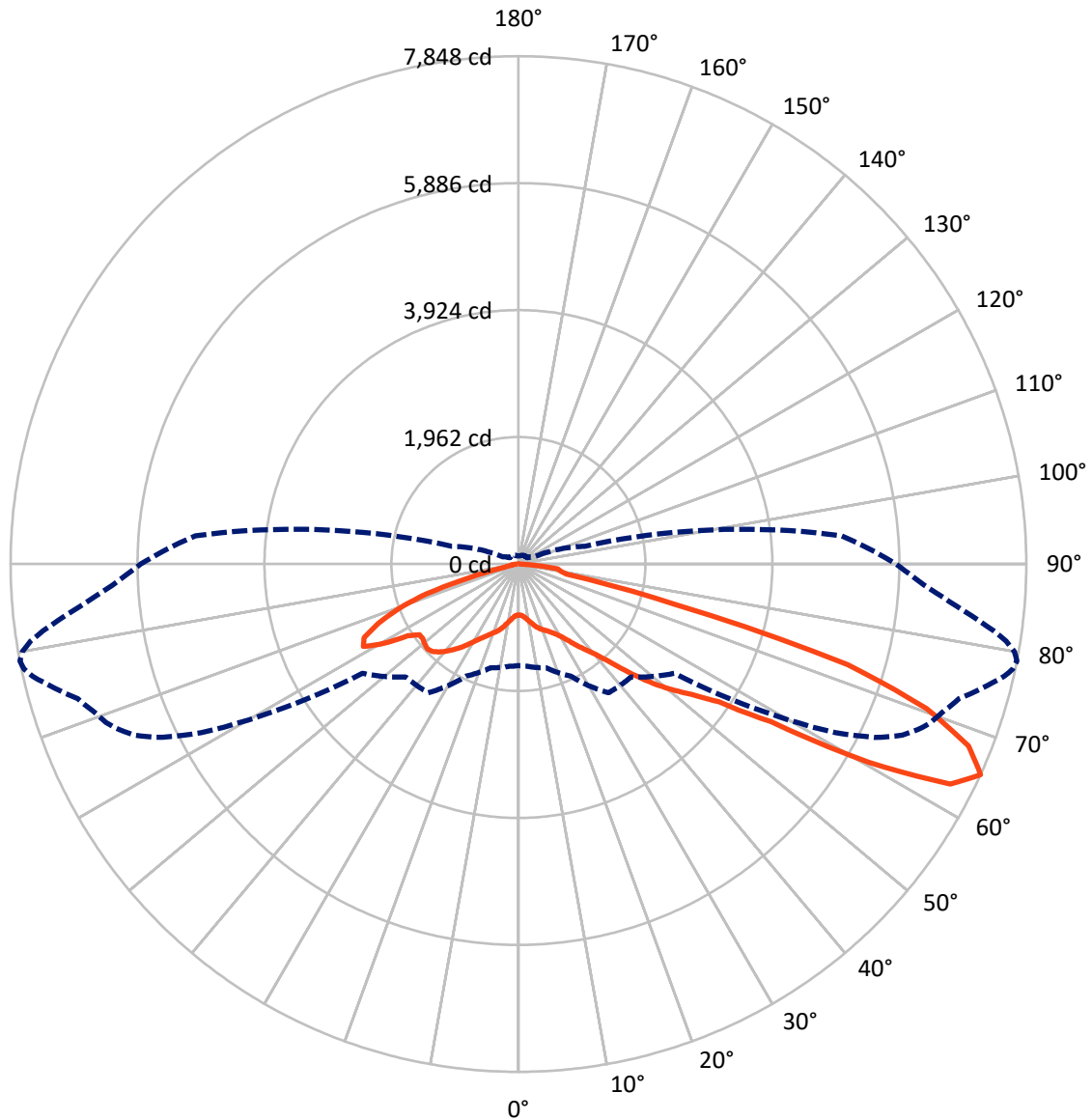


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P149945

CATALOG NUMBER: VWM-F03-LED-E1-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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CATALOG NUMBER: VWM-F03-LED-E1-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1788.6	0.0	1788.6
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	5777.6	0.0	5777.6
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	7566.2	0.0	7566.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.3	1.0
10°-20°	256.0	3.4
20°-30°	442.1	5.8
30°-40°	731.9	9.7
40°-50°	1241.3	16.4
50°-60°	1649.2	21.8
60°-70°	2130.4	28.2
70°-80°	893.5	11.8
80°-90°	143.5	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°	7566.2	100.0
0°-180°	7566.2	100.0



REPORT NUMBER: P149945

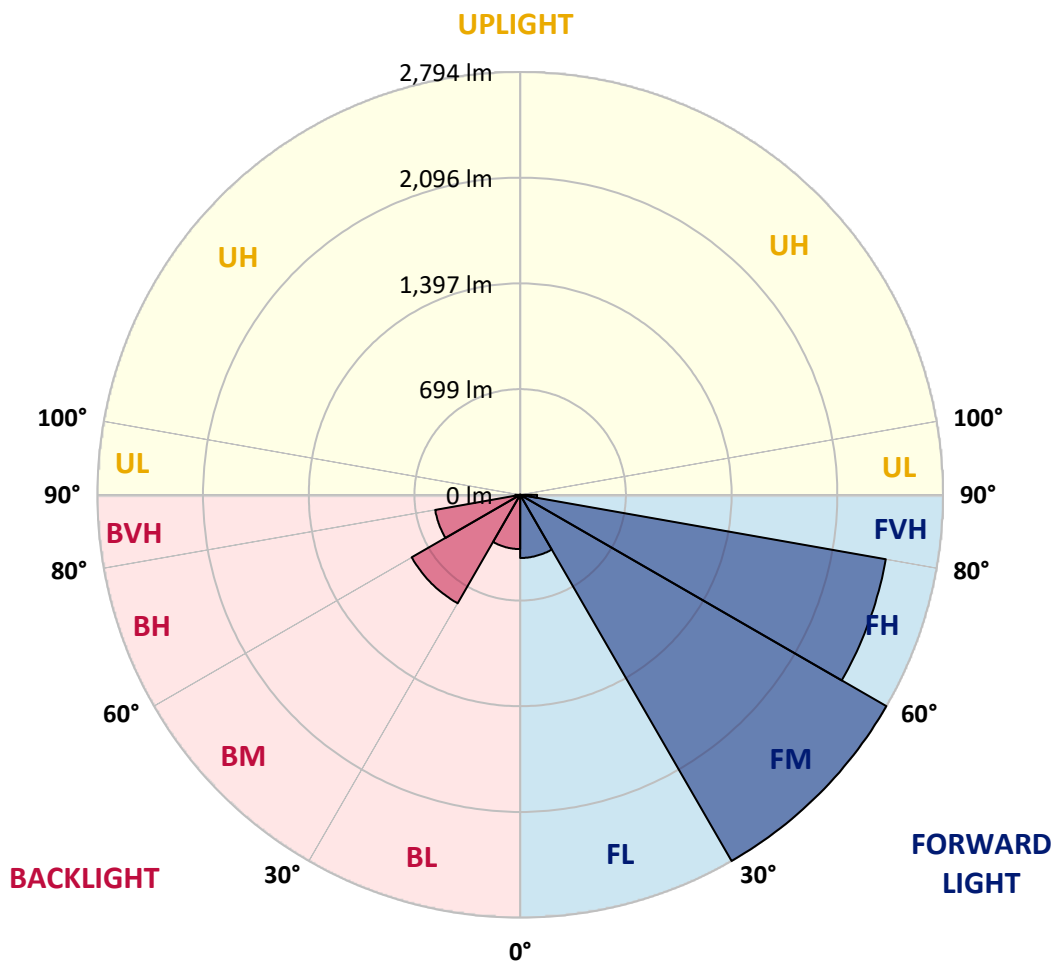
CATALOG NUMBER: VWM-F03-LED-E1-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.5	5.5			
FM (30°-60°)	2794.4	36.9			
FH (60°-80°)	2453.4	32.4			G2/5000
FVH (80°-90°)	112.2	1.5			G2/225
BL (0°-30°)	358.9	4.7	B1/500		
BM (30°-60°)	827.9	10.9	B1/1000		
BH (60°-80°)	570.4	7.5	B2/1000		G2/1000
BVH (80°-90°)	31.3	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 II Short





REPORT NUMBER: P149945

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	785.1	787.6	785.9	787.6	789.2	790.0	791.7	790.9	790.9	791.7	790.0
5°	785.1	785.1	787.6	791.7	793.3	798.3	804.1	803.2	804.1	803.2	804.9
7.5°	801.6	800.8	803.2	808.2	809.8	817.3	827.2	828.8	830.5	830.5	833.0
10°	830.5	829.7	832.1	834.6	837.1	842.9	856.9	862.7	863.5	864.3	867.6
12.5°	866.8	866.0	862.7	862.7	861.8	872.6	891.6	902.3	903.9	907.3	909.7
15°	892.4	889.9	885.0	881.7	885.8	903.1	931.2	943.6	945.2	947.7	954.3
17.5°	917.2	914.7	903.9	895.7	901.5	929.5	967.5	980.7	984.0	986.5	993.9
20°	951.8	950.2	934.5	914.7	913.0	949.4	995.6	1012.9	1015.4	1018.7	1026.1
22.5°	1004.7	997.2	979.1	941.9	923.8	960.9	1015.4	1039.3	1042.6	1045.9	1055.8
25°	1070.7	1067.4	1036.0	979.1	941.1	972.5	1036.9	1066.6	1071.5	1075.7	1088.9
27.5°	1139.2	1134.3	1100.4	1026.1	971.6	995.6	1070.7	1104.6	1111.2	1117.8	1130.1
30°	1200.3	1198.7	1170.6	1089.7	1021.2	1039.3	1125.2	1166.5	1173.9	1182.2	1193.7
32.5°	1344.0	1344.8	1315.9	1233.3	1140.9	1118.6	1203.6	1265.5	1268.8	1278.7	1299.4
35°	1618.9	1622.2	1611.4	1546.2	1442.2	1350.6	1358.8	1419.9	1423.2	1431.5	1451.3
37.5°	1802.9	1809.6	1842.6	1863.2	1810.4	1768.3	1663.4	1639.5	1642.0	1637.0	1632.9
40°	1904.5	1914.4	2001.1	2108.4	2166.2	2167.0	2121.6	2015.9	1975.5	1963.9	1914.4
42.5°	1962.3	1978.8	2101.8	2285.1	2451.0	2564.9	2593.0	2475.7	2446.0	2393.2	2298.3
45°	2000.2	2020.1	2165.4	2416.3	2660.7	2854.7	3000.8	2948.8	2929.0	2896.8	2809.3
47.5°	1993.6	2009.3	2160.4	2460.9	2770.5	3046.2	3305.4	3359.1	3335.1	3326.9	3267.4
50°	1873.1	1887.1	2040.7	2350.3	2710.2	3118.8	3498.6	3650.5	3650.5	3666.2	3648.0
52.5°	1744.3	1755.9	1895.4	2173.6	2515.4	3047.8	3605.9	3857.7	3890.7	3917.9	3960.9
55°	1695.6	1709.7	1815.3	2053.1	2349.4	2844.8	3642.2	4012.9	4074.0	4120.2	4217.6
57.5°	1718.7	1732.8	1807.9	1987.9	2252.0	2637.6	3643.9	4221.7	4339.8	4434.7	4632.0
60°	1818.6	1831.8	1894.6	2048.1	2226.4	2517.9	3573.7	4554.4	4742.6	4921.0	5249.5
62.5°	1772.4	1788.9	1880.5	2148.0	2417.1	2427.0	3320.3	4812.0	5115.0	5378.3	5900.9
65°	1570.1	1587.5	1659.3	1909.4	2428.7	2466.7	2944.6	4816.9	5193.4	5549.2	6113.0
67.5°	1192.1	1198.7	1255.6	1456.2	1942.5	2510.4	2558.3	4246.5	4604.8	5001.9	5583.9
70°	609.2	620.8	637.3	804.1	1250.7	2074.5	2198.4	3129.6	3586.1	3996.4	4695.6
72.5°	211.3	215.5	232.0	307.1	609.2	1361.3	1924.3	2144.7	2420.4	2804.3	3614.1
75°	127.1	127.1	132.9	155.2	278.2	709.1	1712.1	1751.8	1788.9	1917.7	2447.7
77.5°	100.7	102.4	102.4	106.5	154.4	364.1	1300.2	1628.8	1633.7	1646.1	1735.3
80°	71.8	75.1	81.7	85.0	99.9	199.8	729.8	1429.8	1527.2	1574.3	1639.5
82.5°	53.7	57.0	69.3	73.5	77.6	111.4	327.7	986.5	1164.0	1258.1	1487.6
85°	23.9	28.1	47.1	52.0	54.5	59.4	153.5	280.7	322.8	362.4	478.0
87.5°	4.1	4.1	7.4	10.7	15.7	14.9	33.8	47.9	48.7	57.0	63.6
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: P149945

CATALOG NUMBER: VWM-F03-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	790.0	790.0	790.0	789.2	790.0	790.0	790.0	790.0	790.9	790.9	790.9
5°	807.4	805.7	806.5	806.5	806.5	805.7	807.4	806.5	807.4	809.8	809.0
7.5°	833.0	834.6	835.4	836.3	836.3	836.3	837.1	838.7	838.7	841.2	840.4
10°	870.9	870.1	870.9	873.4	875.9	876.7	879.2	878.4	880.0	883.3	886.6
12.5°	911.4	913.0	915.5	918.0	922.1	922.9	925.4	926.2	931.2	931.2	934.5
15°	956.8	957.6	962.6	963.4	968.3	970.0	974.1	975.8	981.5	982.4	985.7
17.5°	998.1	999.7	1002.2	1004.7	1010.4	1012.9	1016.2	1019.5	1024.5	1026.1	1031.9
20°	1031.1	1034.4	1035.2	1040.2	1045.1	1048.4	1051.7	1055.0	1060.0	1062.5	1068.2
22.5°	1060.8	1064.1	1066.6	1070.7	1074.0	1079.0	1080.6	1086.4	1091.3	1095.5	1100.4
25°	1093.0	1097.9	1100.4	1107.9	1110.3	1115.3	1119.4	1125.2	1131.8	1136.7	1143.4
27.5°	1138.4	1145.8	1149.1	1157.4	1163.2	1165.6	1172.2	1180.5	1186.3	1192.1	1198.7
30°	1201.1	1215.2	1217.6	1223.4	1234.2	1235.8	1244.1	1250.7	1259.8	1265.5	1271.3
32.5°	1298.6	1315.9	1317.5	1324.1	1333.2	1336.5	1343.1	1350.6	1364.6	1367.1	1376.2
35°	1448.0	1455.4	1462.0	1464.5	1471.9	1476.0	1481.0	1489.2	1503.3	1501.6	1511.5
37.5°	1627.1	1629.6	1630.4	1622.2	1623.8	1616.4	1625.5	1627.1	1632.1	1636.2	1646.1
40°	1883.0	1857.4	1854.1	1834.3	1814.5	1803.8	1799.6	1783.1	1787.3	1788.9	1797.2
42.5°	2257.0	2207.5	2166.2	2138.1	2089.4	2065.5	2033.3	2007.7	1987.9	1995.3	1998.6
45°	2730.8	2659.8	2593.8	2507.9	2444.4	2399.0	2342.0	2290.8	2267.7	2257.0	2270.2
47.5°	3203.9	3141.1	3063.5	2975.2	2874.5	2799.4	2704.4	2621.0	2563.3	2541.8	2553.3
50°	3612.5	3554.7	3496.1	3444.1	3326.9	3245.1	3115.5	3007.4	2916.6	2870.4	2858.0
52.5°	3951.8	3921.2	3889.9	3846.1	3752.0	3670.3	3567.1	3460.6	3340.1	3246.0	3213.8
55°	4254.8	4272.9	4257.2	4258.1	4220.9	4168.9	4081.4	4002.1	3917.9	3811.4	3766.9
57.5°	4696.4	4803.7	4825.2	4878.9	4905.3	4933.3	4958.1	4911.0	4889.6	4810.3	4811.2
60°	5392.3	5549.2	5685.4	5809.2	5910.8	6009.8	6113.8	6160.1	6211.2	6235.2	6316.9
62.5°	6132.8	6282.2	6485.3	6651.3	6744.5	6873.3	6986.4	7059.9	7149.9	7245.6	7370.3
65°	6316.1	6496.1	6624.0	6734.6	6827.1	6895.6	6957.5	7045.0	7120.2	7272.0	7419.0
67.5°	5846.4	5990.0	6107.2	6216.2	6288.0	6345.8	6401.1	6458.9	6587.7	6725.6	6873.3
70°	5018.4	5191.7	5385.7	5526.9	5562.4	5611.9	5664.8	5739.9	5804.3	5948.7	6061.0
72.5°	4031.9	4281.2	4445.5	4641.1	4683.2	4758.3	4788.0	4846.7	4858.2	4936.6	4966.4
75°	2810.1	3095.7	3260.8	3404.5	3432.5	3391.3	3407.8	3200.6	3147.7	3104.8	3070.1
77.5°	1855.0	1931.7	1958.1	1935.0	1824.4	1737.7	1645.3	1554.5	1564.4	1490.9	1362.1
80°	1649.4	1666.7	1642.8	1619.7	1556.1	1465.3	1381.9	1296.9	1254.8	1210.2	1144.2
82.5°	1604.8	1671.7	1679.1	1651.0	1600.7	1501.6	1400.9	1274.6	1167.3	1068.2	967.5
85°	536.6	653.0	705.0	753.7	768.6	785.9	726.5	645.6	548.1	482.9	378.1
87.5°	68.5	85.0	98.2	84.2	98.2	115.6	83.4	93.3	94.1	58.6	43.8
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: P149945

CATALOG NUMBER: VWM-F03-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	791.7	790.9	790.9	790.9	790.0	790.9	790.9	790.9	790.9	790.9	790.0
5°	809.8	809.8	812.3	813.1	811.5	810.7	811.5	812.3	812.3	811.5	812.3
7.5°	843.7	844.5	846.2	848.6	847.0	847.8	848.6	847.8	850.3	851.1	850.3
10°	886.6	888.3	892.4	893.2	892.4	895.7	896.5	894.9	896.5	896.5	899.8
12.5°	936.1	937.8	942.7	944.4	946.1	946.9	949.4	950.2	952.7	954.3	956.8
15°	989.8	991.5	994.8	1000.5	1002.2	1003.8	1005.5	1010.4	1011.3	1014.6	1017.0
17.5°	1035.2	1037.7	1042.6	1046.8	1049.2	1053.4	1055.0	1060.8	1062.5	1067.4	1071.5
20°	1071.5	1075.7	1079.8	1084.7	1088.9	1093.8	1095.5	1101.3	1104.6	1107.0	1112.0
22.5°	1104.6	1109.5	1115.3	1121.1	1124.4	1131.0	1133.4	1135.9	1143.4	1146.7	1151.6
25°	1147.5	1152.4	1159.0	1166.5	1169.8	1178.0	1180.5	1184.6	1192.9	1196.2	1203.6
27.5°	1206.1	1212.7	1217.6	1225.1	1229.2	1235.0	1240.8	1245.7	1253.1	1258.1	1266.4
30°	1279.6	1284.5	1292.8	1298.6	1305.2	1313.4	1320.0	1325.0	1329.1	1336.5	1345.6
32.5°	1387.7	1388.5	1391.0	1405.0	1411.6	1418.3	1427.3	1431.5	1438.1	1445.5	1455.4
35°	1522.3	1529.7	1535.5	1542.1	1549.5	1556.9	1560.2	1572.6	1578.4	1588.3	1598.2
37.5°	1656.0	1656.8	1670.0	1674.2	1680.8	1688.2	1699.8	1712.1	1727.0	1736.9	1752.6
40°	1799.6	1806.2	1822.8	1831.0	1839.3	1857.4	1866.5	1886.3	1911.1	1925.1	1951.5
42.5°	2007.7	2017.6	2047.3	2060.5	2080.3	2110.0	2129.0	2156.3	2166.2	2200.0	2212.4
45°	2280.1	2310.6	2353.6	2381.6	2417.1	2449.3	2465.8	2478.2	2493.1	2519.5	2516.2
47.5°	2574.8	2614.4	2662.3	2720.1	2743.2	2781.2	2802.7	2826.6	2813.4	2806.8	2800.2
50°	2877.0	2923.2	2986.7	3038.8	3074.3	3097.4	3115.5	3112.2	3084.2	3069.3	3028.0
52.5°	3212.9	3240.2	3300.4	3345.0	3366.5	3371.4	3367.3	3342.6	3316.1	3269.1	3220.4
55°	3728.1	3715.7	3739.6	3760.3	3753.7	3776.8	3717.3	3694.2	3629.0	3567.9	3502.7
57.5°	4774.8	4791.3	4657.6	4597.3	4586.6	4608.1	4503.2	4490.0	4332.4	4312.5	4202.7
60°	6305.4	6386.3	6281.4	6222.8	6064.3	6012.3	5895.1	5846.4	5695.3	5573.1	5418.7
62.5°	7456.1	7529.6	7573.4	7490.0	7397.5	7261.3	7083.8	6887.4	6727.2	6539.8	6376.4
65°	7560.2	7708.8	7809.5	7848.3	7783.0	7633.6	7414.9	7167.2	6922.0	6686.8	6480.4
67.5°	7073.9	7206.8	7362.9	7502.4	7510.6	7413.2	7226.6	6974.9	6691.7	6401.1	6159.2
70°	6238.5	6405.2	6541.5	6688.4	6790.8	6734.6	6641.3	6410.2	6116.3	5890.1	5611.9
72.5°	5073.7	5143.8	5176.9	5321.3	5323.0	5220.6	5154.6	5026.6	4789.7	4629.5	4417.4
75°	2962.8	2808.4	2644.2	2501.3	2384.9	2336.2	2119.9	2083.6	1938.3	1848.4	1716.3
77.5°	1221.8	1083.9	906.4	758.7	612.5	546.5	450.7	408.6	354.2	330.2	314.5
80°	1047.6	917.2	783.4	655.5	541.5	427.6	332.7	258.4	203.1	172.5	160.2
82.5°	855.2	776.8	683.5	614.2	525.0	440.0	371.5	288.1	215.5	158.5	121.4
85°	308.7	253.4	203.9	187.4	149.4	123.0	103.2	88.3	72.6	57.8	51.2
87.5°	34.7	33.0	19.0	18.2	20.6	14.9	17.3	15.7	13.2	11.6	12.4
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: P149945

CATALOG NUMBER: VWM-F03-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	790.0	790.0	790.9	790.9	791.7	792.5	794.2	793.3	793.3	794.2	794.2
5°	812.3	814.8	814.0	814.0	814.0	814.8	815.6	812.3	809.0	805.7	804.1
7.5°	851.1	852.8	854.4	852.8	854.4	853.6	851.9	842.9	832.1	818.9	809.8
10°	901.5	901.5	903.1	902.3	905.6	903.1	898.2	877.5	854.4	826.4	805.7
12.5°	956.0	961.7	959.3	960.1	966.7	960.1	948.5	918.0	876.7	831.3	795.0
15°	1020.3	1022.8	1024.5	1022.0	1026.1	1020.3	999.7	951.0	890.7	827.2	773.5
17.5°	1073.2	1074.0	1074.8	1076.5	1082.3	1075.7	1040.2	974.1	894.0	808.2	737.2
20°	1114.5	1118.6	1121.9	1121.9	1130.1	1120.2	1073.2	985.7	883.3	776.8	691.0
22.5°	1157.4	1160.7	1164.8	1165.6	1176.4	1166.5	1100.4	983.2	855.2	732.2	637.3
25°	1210.2	1213.5	1216.8	1221.0	1235.8	1221.8	1127.7	973.3	816.4	679.4	579.5
27.5°	1271.3	1278.7	1281.2	1287.8	1305.2	1283.7	1150.8	958.4	773.5	618.3	518.4
30°	1353.0	1362.1	1365.4	1374.5	1398.4	1351.4	1164.0	932.8	719.0	556.4	453.2
32.5°	1462.8	1475.2	1485.1	1495.0	1522.3	1419.1	1165.6	895.7	655.5	487.1	390.5
35°	1606.5	1625.5	1632.9	1639.5	1665.1	1492.5	1158.2	840.4	577.9	416.1	340.9
37.5°	1767.4	1786.4	1791.4	1794.7	1799.6	1555.3	1140.0	756.2	490.4	354.2	301.3
40°	1965.6	1982.1	1988.7	1983.7	1957.3	1604.0	1099.6	657.9	405.3	312.0	276.6
42.5°	2207.5	2232.2	2234.7	2212.4	2124.9	1631.2	1018.7	542.4	338.5	281.5	257.6
45°	2507.1	2505.5	2491.4	2475.7	2307.3	1620.5	905.6	441.7	296.4	257.6	240.2
47.5°	2776.2	2748.2	2726.7	2680.5	2468.3	1557.8	759.5	365.7	270.8	239.4	225.4
50°	2996.7	2945.5	2900.1	2849.7	2588.0	1446.3	614.2	310.4	246.8	223.7	211.3
52.5°	3170.8	3108.9	3056.1	3006.6	2703.6	1322.5	503.6	269.9	223.7	208.0	195.6
55°	3443.3	3381.4	3297.1	3242.7	2880.3	1208.6	431.7	237.8	201.4	191.5	179.1
57.5°	4132.6	4078.1	3977.4	3836.2	3334.3	1165.6	391.3	213.0	183.3	177.5	167.6
60°	5336.2	5247.9	5116.6	4973.0	4257.2	1194.5	359.1	195.6	170.9	165.9	158.5
62.5°	6244.3	6089.1	5940.5	5807.6	4995.3	1193.7	317.0	182.4	161.8	159.3	151.9
65°	6281.4	6123.7	5974.3	5834.8	5011.8	1062.5	267.5	170.9	160.2	159.3	146.9
67.5°	5947.9	5777.0	5632.6	5456.7	4639.5	830.5	214.6	163.5	166.8	165.1	145.3
70°	5403.1	5180.2	5061.3	4887.9	4083.0	581.2	176.7	165.9	180.8	175.8	147.8
72.5°	4240.7	4072.3	3891.5	3771.0	3196.4	367.4	148.6	167.6	186.6	178.3	154.4
75°	1578.4	1623.8	1549.5	1523.1	1623.8	215.5	132.1	156.0	166.8	154.4	140.3
77.5°	318.7	304.6	288.9	285.6	369.0	132.9	121.4	135.4	128.0	113.1	113.9
80°	152.7	148.6	143.6	142.8	137.0	110.6	112.3	115.6	96.6	87.5	93.3
82.5°	101.5	95.8	94.1	90.8	92.5	99.1	106.5	99.1	74.3	69.3	84.2
85°	47.1	45.4	44.6	44.6	49.5	89.2	88.3	72.6	51.2	49.5	84.2
87.5°	11.6	11.6	12.4	11.6	13.2	26.4	23.1	22.3	19.0	21.5	39.6
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: P149945

CATALOG NUMBER: VWM-F03-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	787.6	787.6	787.6
2.5°	793.3	794.2	793.3
5°	800.8	800.8	800.8
7.5°	800.8	798.3	797.5
10°	789.2	781.8	781.8
12.5°	769.4	757.0	755.4
15°	732.2	715.7	713.3
17.5°	685.2	662.9	658.8
20°	632.4	604.3	599.3
22.5°	574.6	542.4	539.9
25°	517.6	484.6	478.0
27.5°	454.0	421.8	418.5
30°	390.5	362.4	360.8
32.5°	336.8	319.5	316.2
35°	298.8	288.9	284.8
37.5°	274.1	266.6	265.8
40°	255.1	248.5	247.7
42.5°	239.4	233.6	232.8
45°	223.7	218.8	217.1
47.5°	208.0	203.1	202.3
50°	194.0	187.4	186.6
52.5°	180.8	174.2	172.5
55°	168.4	161.8	161.8
57.5°	157.7	151.1	150.2
60°	147.8	141.2	140.3
62.5°	140.3	132.1	131.3
65°	134.6	126.3	124.7
67.5°	131.3	121.4	118.9
70°	137.0	118.9	114.7
72.5°	137.9	116.4	110.6
75°	132.9	109.8	105.7
77.5°	116.4	98.2	94.1
80°	100.7	75.9	70.2
82.5°	95.8	61.9	53.7
85°	74.3	40.5	38.0
87.5°	42.1	22.3	18.2
90°	0.0	0.0	0.0

(END OF REPORT)