

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: P151070

Luminaire Tested: **VWM-E02-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151070
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-E02-LED-E1-SL3
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6072.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

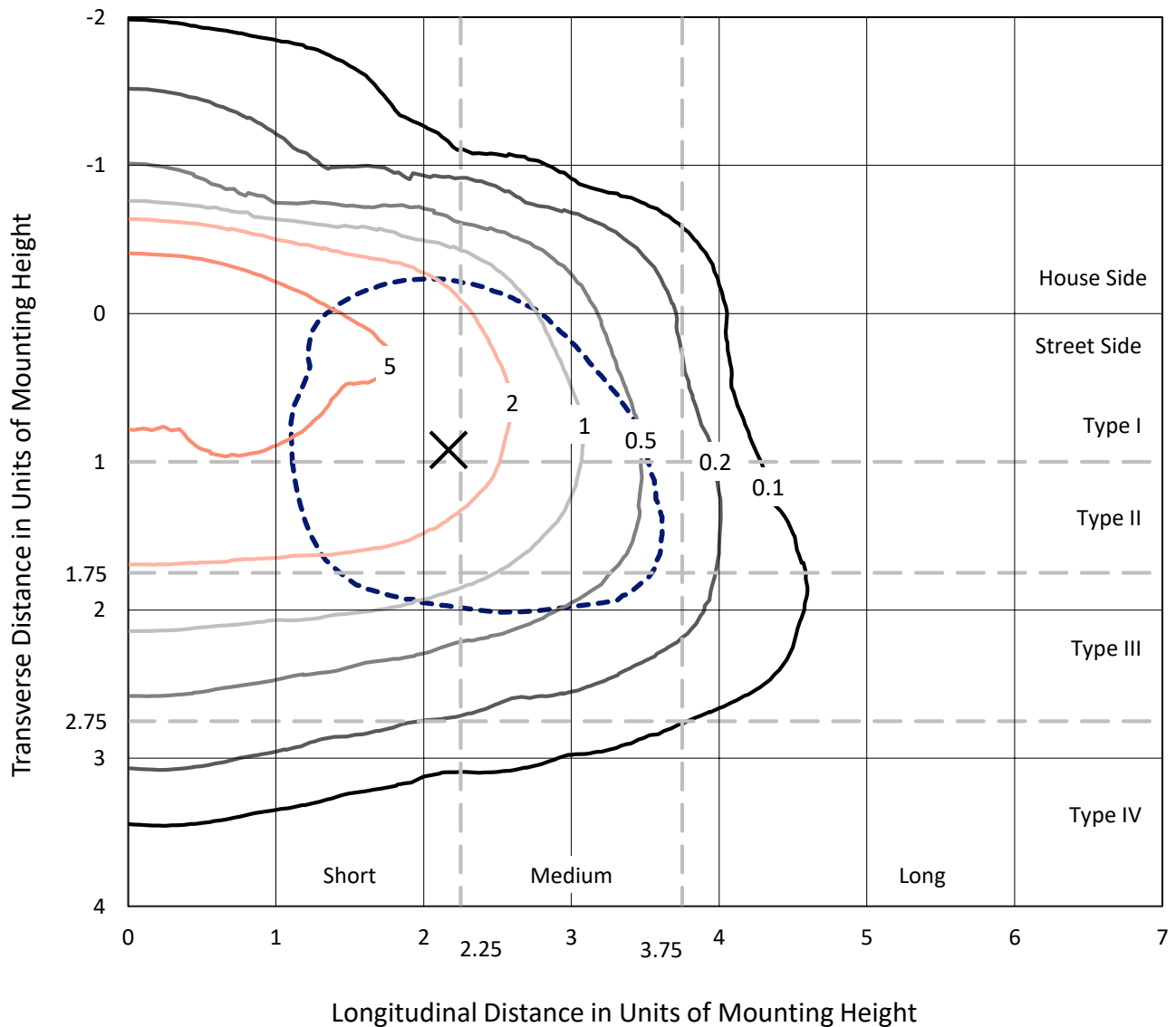


REPORT NUMBER: P151070

CATALOG NUMBER: VWM-E02-LED-E1-SL3

Iso-Footcandle Lines of Horizontal Illumination

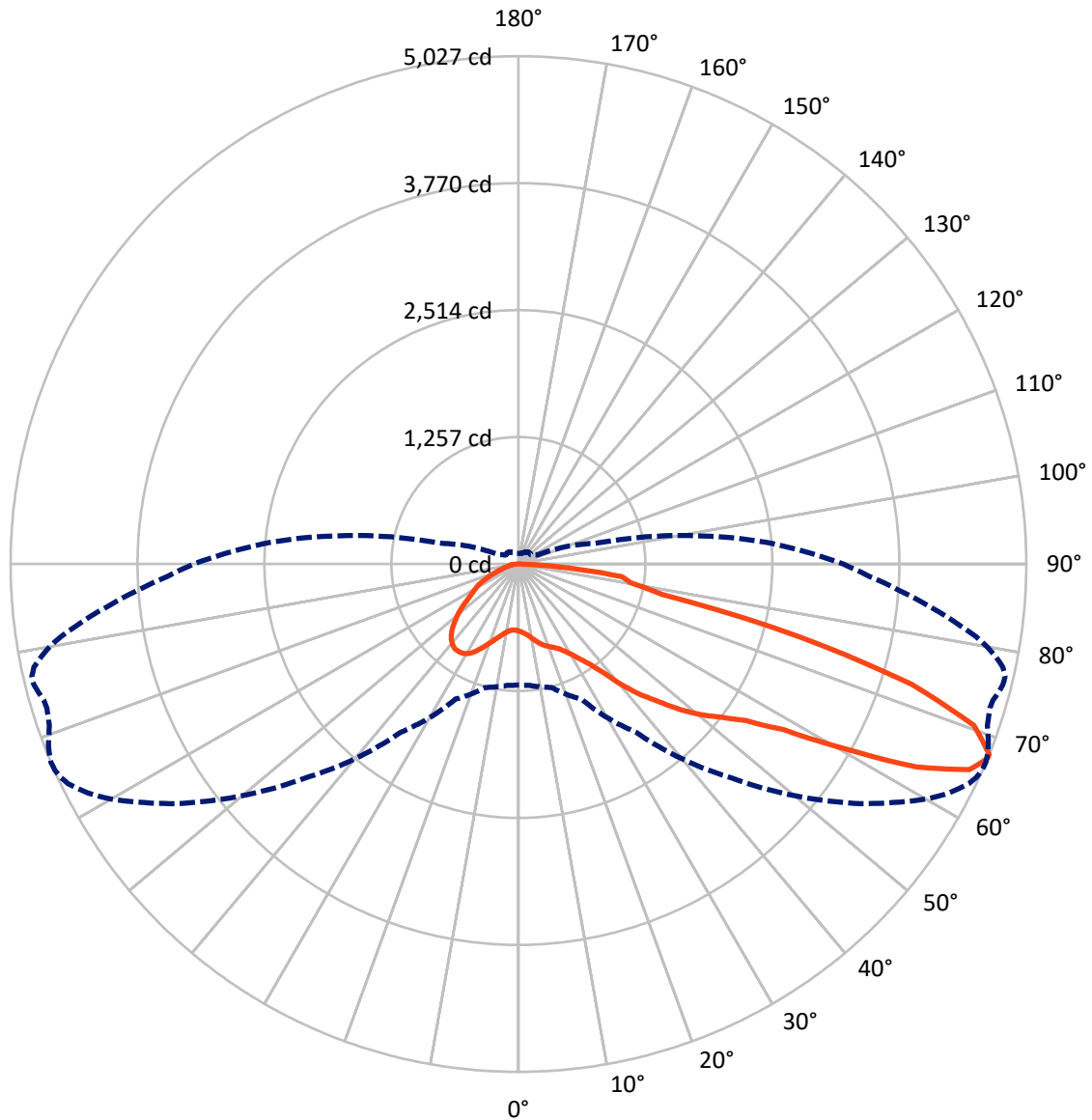
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P151070
CATALOG NUMBER: VWM-E02-LED-E1-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P151070

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.3	0.0	1401.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4671.0	0.0	4671.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	6072.3	0.0	6072.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.1
10°-20°	226.5	3.7
20°-30°	399.9	6.6
30°-40°	573.9	9.5
40°-50°	871.7	14.4
50°-60°	1283.4	21.1
60°-70°	1705.6	28.1
70°-80°	834.4	13.7
80°-90°	110.8	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°	6072.3	100.0
0°-180°	6072.3	100.0



REPORT NUMBER: P151070

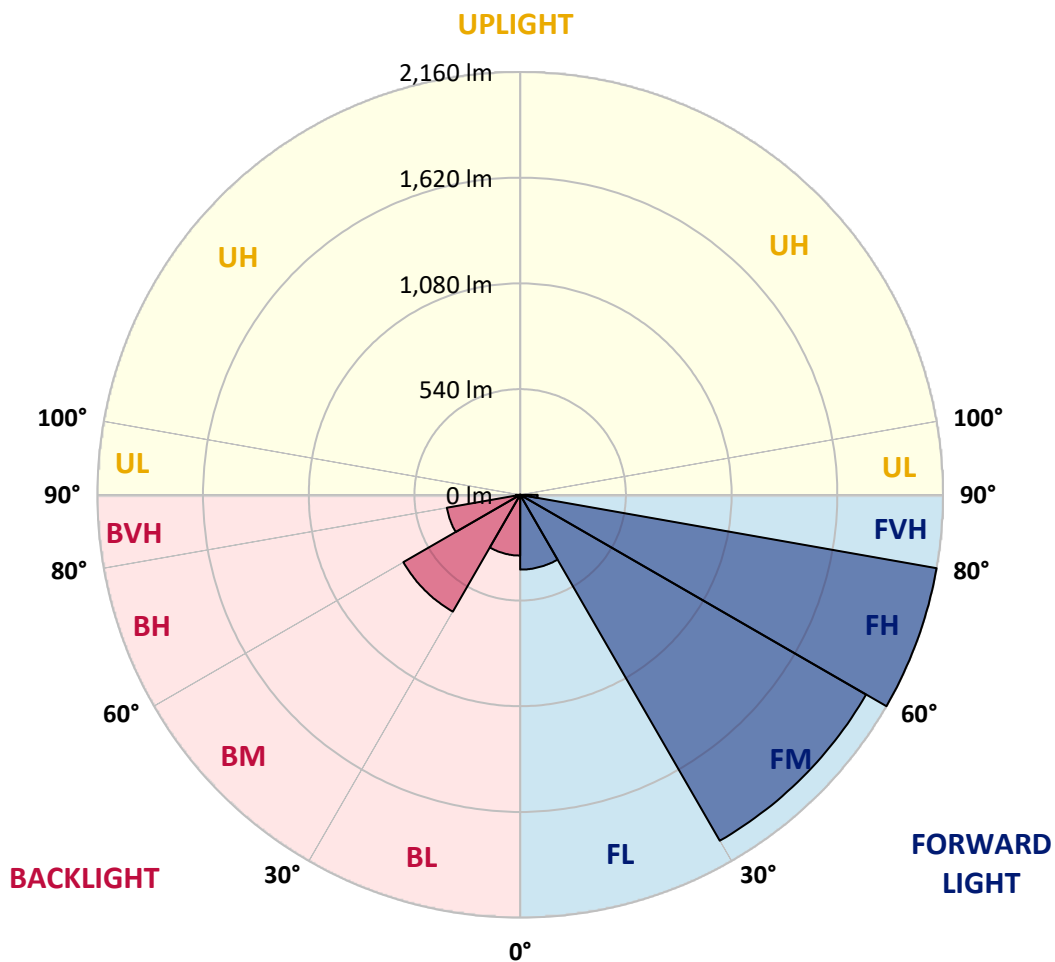
CATALOG NUMBER: VWM-E02-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.0	6.3			
FM	(30°-60°)	2040.2	33.6			
FH	(60°-80°)	2159.9	35.6			G2/5000
FVH	(80°-90°)	89.0	1.5			G1/100
BL	(0°-30°)	310.3	5.1	B1/500		
BM	(30°-60°)	688.9	11.3	B1/1000		
BH	(60°-80°)	380.2	6.3	B1/500		G1/500
BVH	(80°-90°)	21.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P151070

CATALOG NUMBER: VWM-E02-LED-E1-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3
2.5°	694.7	695.3	694.0	693.3	689.3	685.3	682.7	679.3	679.3	679.3	678.0
5°	734.0	731.3	733.3	728.7	720.7	713.3	706.0	700.0	698.7	698.7	696.0
7.5°	781.3	778.0	776.7	770.0	758.0	747.3	732.7	726.7	723.3	722.0	720.7
10°	838.7	838.7	830.0	818.7	802.7	784.0	768.0	757.3	756.7	756.7	750.7
12.5°	897.3	898.7	887.3	876.0	850.0	825.3	806.7	794.7	794.0	791.3	788.0
15°	951.3	948.0	940.7	924.0	895.3	866.0	842.7	830.7	828.0	825.3	823.3
17.5°	996.0	992.7	983.3	962.0	932.0	897.3	868.7	856.0	854.7	853.3	850.7
20°	1024.0	1021.3	1008.0	983.3	952.0	916.7	886.0	877.3	874.7	874.7	873.3
22.5°	1040.0	1036.0	1016.7	984.0	953.3	927.3	902.0	896.7	894.7	895.3	895.3
25°	1048.0	1044.7	1017.3	970.7	941.3	934.0	923.3	920.0	920.7	921.3	922.7
27.5°	1049.3	1044.7	1012.7	953.3	926.0	946.7	954.0	959.3	959.3	962.0	966.7
30°	1039.3	1034.0	1003.3	940.0	919.3	972.0	1001.3	1015.3	1020.7	1019.3	1030.0
32.5°	1022.0	1018.7	994.0	940.0	938.0	1022.0	1074.0	1094.0	1096.7	1098.0	1110.0
35°	1016.0	1015.3	1004.7	972.0	996.0	1110.0	1189.3	1204.7	1208.0	1208.0	1216.7
37.5°	1014.7	1018.0	1030.0	1032.0	1098.0	1240.7	1344.7	1368.0	1368.0	1374.7	1374.7
40°	1014.7	1022.0	1067.3	1121.3	1222.7	1410.7	1554.7	1581.3	1581.3	1588.7	1584.7
42.5°	1054.0	1064.7	1139.3	1242.0	1380.0	1586.0	1751.3	1781.3	1783.3	1781.3	1787.3
45°	1131.3	1140.7	1231.3	1378.7	1542.0	1774.0	1939.3	1975.3	1968.0	1972.7	1974.7
47.5°	1234.0	1248.7	1352.0	1528.0	1700.0	1948.0	2150.0	2182.7	2180.0	2182.0	2173.3
50°	1343.3	1358.7	1474.0	1676.0	1857.3	2088.0	2319.3	2368.0	2363.3	2366.7	2371.3
52.5°	1440.0	1449.3	1560.7	1787.3	1976.7	2218.7	2449.3	2510.0	2520.7	2522.0	2525.3
55°	1497.3	1508.7	1610.7	1842.7	2063.3	2346.7	2598.0	2690.0	2710.7	2716.0	2730.7
57.5°	1517.3	1529.3	1622.0	1850.7	2110.7	2466.7	2805.3	2967.3	2984.7	3013.3	3060.0
60°	1516.7	1529.3	1610.0	1832.7	2158.7	2615.3	3128.0	3399.3	3487.3	3516.7	3583.3
62.5°	1454.7	1469.3	1551.3	1778.0	2220.0	2805.3	3608.0	4025.3	4138.7	4192.0	4264.0
65°	1318.7	1329.3	1406.0	1639.3	2202.7	2992.7	4009.3	4530.0	4633.3	4711.3	4840.0
67°	1198.0	1204.7	1264.7	1475.3	2033.3	2999.3	4136.0	4655.3	4745.3	4828.0	4960.7
67.5°	1167.3	1181.3	1228.0	1425.3	1970.0	2961.3	4127.3	4636.0	4728.0	4814.0	4954.0
70°	950.0	970.0	993.3	1126.0	1548.7	2491.3	3821.3	4301.3	4382.0	4462.0	4657.3
72.5°	586.0	622.0	626.7	710.7	1008.0	1722.0	3092.0	3627.3	3688.0	3745.3	3945.3
75°	345.3	350.7	367.3	435.3	591.3	1029.3	2074.7	2694.7	2750.7	2778.7	2935.3
77.5°	192.7	198.0	212.0	270.7	454.7	693.3	1208.0	1583.3	1617.3	1652.7	1627.3
80°	80.0	87.3	94.0	109.3	212.7	547.3	830.7	1006.7	1028.7	1049.3	1075.3
82.5°	38.7	41.3	50.7	58.0	77.3	224.7	651.3	872.7	898.7	928.7	989.3
85°	18.0	20.0	28.0	33.3	37.3	56.7	218.0	424.7	460.7	467.3	479.3
87.5°	1.3	1.3	3.3	4.7	6.7	7.3	22.7	32.0	36.0	32.7	41.3
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: P151070

CATALOG NUMBER: VWM-E02-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3
2.5°	677.3	676.7	675.3	675.3	674.7	674.7	674.7	673.3	673.3	673.3	672.7
5°	695.3	694.7	692.7	692.7	691.3	691.3	689.3	688.7	687.3	687.3	686.7
7.5°	718.7	718.0	715.3	715.3	713.3	712.7	711.3	709.3	709.3	708.0	706.7
10°	750.7	748.7	748.0	744.7	745.3	744.0	742.7	740.7	739.3	738.0	736.7
12.5°	786.7	786.7	783.3	781.3	782.7	781.3	778.7	778.0	776.0	776.0	774.0
15°	820.7	820.7	819.3	816.7	817.3	815.3	814.7	813.3	810.7	811.3	810.7
17.5°	850.0	850.0	848.0	846.7	846.7	844.7	845.3	844.0	842.7	842.0	840.0
20°	873.3	873.3	872.0	870.7	871.3	871.3	869.3	869.3	869.3	868.0	868.0
22.5°	896.0	896.7	896.7	896.7	897.3	898.0	897.3	898.7	898.0	899.3	899.3
25°	926.0	928.0	929.3	929.3	932.7	933.3	934.0	936.0	936.0	938.0	938.7
27.5°	970.7	972.0	977.3	978.7	979.3	984.7	985.3	988.0	990.7	991.3	992.0
30°	1032.0	1035.3	1039.3	1042.0	1042.0	1048.7	1051.3	1050.0	1057.3	1059.3	1062.0
32.5°	1114.0	1116.7	1120.7	1123.3	1126.0	1129.3	1130.0	1133.3	1139.3	1144.7	1141.3
35°	1217.3	1224.0	1217.3	1224.7	1226.7	1231.3	1230.0	1234.0	1236.7	1238.7	1238.0
37.5°	1367.3	1364.0	1362.7	1360.0	1355.3	1371.3	1363.3	1362.7	1358.7	1370.0	1362.7
40°	1564.7	1566.7	1568.7	1558.0	1552.0	1552.0	1550.0	1542.7	1539.3	1549.3	1548.0
42.5°	1770.7	1772.7	1763.3	1756.7	1741.3	1739.3	1730.0	1728.0	1724.7	1730.0	1724.7
45°	1958.0	1959.3	1938.7	1942.0	1930.0	1932.0	1917.3	1923.3	1915.3	1920.7	1930.7
47.5°	2167.3	2170.0	2152.0	2159.3	2147.3	2140.0	2139.3	2143.3	2134.7	2140.0	2142.7
50°	2357.3	2354.0	2344.7	2346.7	2341.3	2342.7	2334.7	2342.0	2332.0	2342.7	2341.3
52.5°	2526.0	2522.0	2520.0	2526.7	2522.0	2522.0	2517.3	2520.7	2522.0	2538.0	2541.3
55°	2730.7	2734.0	2737.3	2749.3	2754.7	2746.0	2754.7	2771.3	2772.0	2810.0	2830.7
57.5°	3059.3	3082.7	3094.7	3102.0	3133.3	3130.0	3150.0	3190.0	3194.0	3282.0	3333.3
60°	3632.7	3674.0	3713.3	3692.0	3755.3	3774.7	3786.7	3861.3	3884.7	3968.0	4012.7
62.5°	4356.7	4361.3	4422.7	4403.3	4439.3	4430.7	4445.3	4479.3	4510.0	4578.7	4620.7
65°	4862.0	4884.0	4908.0	4883.3	4882.7	4853.3	4834.7	4834.0	4852.7	4867.3	4914.0
67°	4999.3	5021.3	5027.3	5009.3	4983.3	4946.0	4911.3	4893.3	4881.3	4888.0	4917.3
67.5°	4998.0	5018.7	5026.0	5008.7	4972.7	4941.3	4904.7	4884.0	4868.0	4871.3	4896.0
70°	4714.0	4758.7	4782.7	4788.0	4783.3	4728.7	4697.3	4678.7	4665.3	4632.7	4630.7
72.5°	3994.0	4048.0	4066.7	4096.7	4110.0	4029.3	3995.3	4016.0	3969.3	3866.0	3870.7
75°	2932.7	2936.7	2874.0	2862.0	2817.3	2634.7	2580.0	2530.0	2450.0	2325.3	2208.0
77.5°	1528.7	1528.0	1456.0	1419.3	1366.0	1256.0	1250.7	1161.3	1098.7	984.7	943.3
80°	1086.0	1103.3	1127.3	1139.3	1120.7	1078.0	1019.3	956.0	883.3	812.0	726.7
82.5°	1010.0	1020.7	1033.3	986.7	960.7	900.7	856.0	764.0	712.7	631.3	545.3
85°	491.3	524.0	498.7	469.3	459.3	359.3	347.3	290.0	263.3	216.7	202.0
87.5°	31.3	38.7	34.7	31.3	27.3	15.3	20.7	14.7	15.3	11.3	10.0
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: P151070

CATALOG NUMBER: VWM-E02-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3
2.5°	672.7	672.0	671.3	670.7	670.0	670.0	669.3	668.7	668.0	666.7	666.7
5°	685.3	685.3	684.7	683.3	683.3	682.0	680.0	679.3	679.3	678.0	676.7
7.5°	706.0	705.3	704.0	703.3	702.0	700.7	699.3	698.0	697.3	695.3	694.7
10°	737.3	736.0	732.7	731.3	730.7	729.3	728.0	726.7	724.7	723.3	722.7
12.5°	772.7	772.0	769.3	770.7	767.3	766.0	764.7	761.3	762.7	760.0	758.7
15°	808.0	808.7	807.3	807.3	804.7	802.7	801.3	798.7	798.0	796.7	795.3
17.5°	839.3	840.7	838.7	837.3	836.0	834.7	832.0	829.3	829.3	826.7	825.3
20°	868.0	869.3	868.7	867.3	865.3	864.7	863.3	861.3	861.3	860.0	858.0
22.5°	900.7	901.3	901.3	900.7	898.7	899.3	898.0	896.0	896.7	894.0	894.0
25°	940.0	941.3	942.7	943.3	942.0	942.7	941.3	940.0	939.3	940.0	939.3
27.5°	994.0	995.3	999.3	996.0	999.3	1000.0	998.0	995.3	997.3	1000.7	998.7
30°	1065.3	1064.0	1069.3	1070.0	1069.3	1070.0	1068.7	1066.7	1068.0	1074.0	1070.7
32.5°	1145.3	1148.0	1149.3	1150.7	1152.7	1155.3	1153.3	1151.3	1154.7	1152.7	1157.3
35°	1242.0	1248.0	1250.0	1248.0	1249.3	1254.0	1253.3	1254.0	1260.7	1254.0	1262.7
37.5°	1364.0	1370.0	1374.7	1372.0	1375.3	1375.3	1380.7	1395.3	1386.0	1398.0	1407.3
40°	1541.3	1550.7	1551.3	1550.7	1554.0	1558.0	1563.3	1579.3	1568.7	1581.3	1590.0
42.5°	1724.0	1735.3	1739.3	1732.7	1740.0	1748.7	1749.3	1763.3	1764.0	1766.0	1770.7
45°	1930.0	1940.0	1948.0	1944.7	1945.3	1956.7	1954.0	1967.3	1957.3	1957.3	1960.0
47.5°	2149.3	2158.7	2164.0	2169.3	2162.7	2172.7	2177.3	2174.7	2162.7	2160.0	2144.0
50°	2349.3	2357.3	2365.3	2380.0	2379.3	2384.0	2387.3	2375.3	2372.7	2358.0	2340.0
52.5°	2561.3	2582.0	2600.0	2630.7	2635.3	2651.3	2645.3	2625.3	2622.0	2598.0	2574.0
55°	2856.7	2916.0	2942.0	2989.3	3021.3	3020.7	3007.3	3004.0	2978.7	2930.7	2902.0
57.5°	3370.7	3463.3	3508.0	3569.3	3579.3	3573.3	3556.0	3525.3	3481.3	3400.7	3348.7
60°	4112.7	4170.0	4222.0	4236.7	4244.0	4232.7	4172.0	4104.0	4018.0	3906.7	3814.0
62.5°	4673.3	4732.0	4770.7	4764.7	4718.7	4660.7	4572.0	4458.0	4337.3	4212.7	4074.0
65°	4958.7	4983.3	4977.3	4930.7	4852.0	4750.7	4621.3	4480.7	4338.7	4191.3	4047.3
67°	4943.3	4944.0	4903.3	4812.7	4712.0	4584.7	4426.7	4273.3	4106.7	3952.0	3780.7
67.5°	4916.0	4913.3	4856.7	4757.3	4648.7	4517.3	4353.3	4194.7	4022.0	3866.0	3688.7
70°	4606.7	4569.3	4441.3	4282.7	4131.3	3954.0	3782.0	3600.0	3405.3	3271.3	3067.3
72.5°	3785.3	3659.3	3438.7	3272.7	3110.7	2878.7	2771.3	2545.3	2408.7	2323.3	2169.3
75°	2192.0	2086.7	1916.0	1760.7	1682.0	1544.7	1479.3	1313.3	1278.7	1277.3	1224.0
77.5°	836.7	730.0	620.0	499.3	424.7	337.3	297.3	266.0	242.0	258.7	234.7
80°	627.3	516.0	403.3	293.3	209.3	154.7	132.7	122.7	116.7	112.0	108.7
82.5°	467.3	368.7	286.0	186.7	130.7	98.7	85.3	80.0	77.3	72.7	68.7
85°	158.0	126.7	100.0	69.3	54.7	44.7	41.3	40.0	38.0	34.7	32.7
87.5°	8.7	8.0	8.7	6.7	8.0	6.7	7.3	7.3	7.3	6.7	6.7
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: P151070

CATALOG NUMBER: VWM-E02-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3	663.3
2.5°	666.0	666.0	666.0	664.7	662.7	658.7	654.7	651.3	648.0	646.0	644.7
5°	676.0	674.7	674.0	673.3	668.7	660.7	653.3	646.7	640.0	634.7	632.7
7.5°	694.0	691.3	690.7	688.7	682.7	670.7	660.0	649.3	640.0	632.7	629.3
10°	721.3	721.3	717.3	714.7	708.0	692.0	676.7	662.7	650.0	642.0	640.0
12.5°	756.0	756.0	752.7	750.7	742.7	722.0	703.3	686.7	674.7	666.7	666.0
15°	792.0	791.3	788.7	786.0	777.3	755.3	736.7	722.0	712.0	702.7	700.0
17.5°	824.0	824.0	820.7	818.0	809.3	790.7	774.0	763.3	752.0	732.7	718.0
20°	856.0	856.7	854.0	851.3	844.0	828.0	820.7	810.0	784.7	742.7	708.0
22.5°	891.3	894.0	890.7	888.0	882.0	875.3	872.7	847.3	794.0	726.7	676.0
25°	936.7	941.3	937.3	936.0	932.7	934.7	926.7	868.0	780.7	692.0	628.7
27.5°	998.7	998.7	999.3	999.3	998.0	1005.3	976.0	868.7	751.3	647.3	572.0
30°	1071.3	1075.3	1074.0	1074.0	1079.3	1084.0	1003.3	854.0	714.0	592.0	502.7
32.5°	1158.7	1162.0	1163.3	1157.3	1178.7	1154.7	1013.3	827.3	668.0	523.3	420.0
35°	1264.0	1268.7	1272.0	1272.7	1286.7	1216.0	1008.0	788.0	602.0	437.3	329.3
37.5°	1401.3	1410.7	1418.0	1421.3	1422.0	1268.0	993.3	736.0	516.0	341.3	245.3
40°	1584.0	1594.0	1592.0	1598.7	1560.7	1298.7	960.0	660.7	409.3	250.7	189.3
42.5°	1760.0	1761.3	1764.0	1758.0	1680.7	1314.7	913.3	568.7	306.7	187.3	162.0
45°	1956.7	1945.3	1932.7	1923.3	1791.3	1320.7	849.3	456.7	216.7	157.3	150.0
47.5°	2141.3	2126.0	2100.0	2073.3	1890.0	1311.3	767.3	342.0	164.7	144.0	142.0
50°	2322.7	2294.0	2257.3	2226.7	1984.7	1297.3	676.7	246.7	144.0	137.3	135.3
52.5°	2547.3	2499.3	2451.3	2411.3	2108.0	1275.3	581.3	187.3	135.3	132.0	129.3
55°	2855.3	2788.7	2711.3	2655.3	2275.3	1242.0	481.3	158.7	131.3	128.7	124.7
57.5°	3282.0	3182.0	3094.7	3003.3	2504.0	1208.0	395.3	147.3	130.7	126.7	121.3
60°	3718.0	3598.0	3486.7	3356.0	2737.3	1174.0	335.3	146.0	132.7	126.7	118.7
62.5°	3944.7	3820.7	3686.7	3554.0	2838.0	1094.0	294.0	148.0	137.3	128.7	118.7
65°	3892.7	3741.3	3605.3	3470.0	2721.3	942.7	248.7	150.7	146.7	136.7	120.7
67°	3631.3	3473.3	3342.7	3213.3	2461.3	789.3	213.3	153.3	156.7	146.0	124.7
67.5°	3539.3	3381.3	3252.7	3126.7	2384.7	757.3	204.7	154.7	158.7	148.7	126.0
70°	2934.7	2818.7	2682.0	2584.7	1930.7	560.7	168.0	157.3	170.7	164.0	132.0
72.5°	2112.0	2001.3	1898.7	1844.7	1422.0	392.0	141.3	154.7	178.0	172.7	134.7
75°	1122.7	1116.0	1078.7	1105.3	880.0	256.0	124.7	144.7	170.0	158.0	125.3
77.5°	226.7	233.3	274.0	270.0	284.0	142.7	106.7	124.0	131.3	116.0	102.0
80°	105.3	103.3	101.3	102.7	100.7	91.3	86.7	97.3	91.3	74.7	68.0
82.5°	65.3	64.0	62.0	61.3	68.0	72.7	76.0	76.7	60.7	52.0	50.0
85°	31.3	31.3	30.7	32.0	40.0	59.3	64.0	56.7	40.7	37.3	35.3
87.5°	6.0	6.0	6.7	6.0	8.0	14.0	16.0	18.7	15.3	16.0	18.0
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: P151070

CATALOG NUMBER: VWM-E02-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	663.3	663.3	663.3
2.5°	643.3	642.0	642.0
5°	630.0	629.3	629.3
7.5°	626.7	627.3	626.7
10°	639.3	638.7	641.3
12.5°	667.3	669.3	668.7
15°	696.7	698.0	698.0
17.5°	705.3	700.7	700.0
20°	682.7	674.0	672.0
22.5°	640.0	624.0	624.7
25°	586.0	566.7	568.0
27.5°	523.3	502.7	502.0
30°	448.0	425.3	414.0
32.5°	357.3	330.0	330.0
35°	268.7	246.7	238.7
37.5°	204.0	191.3	187.3
40°	170.0	164.0	162.7
42.5°	154.7	152.7	152.0
45°	146.7	145.3	144.7
47.5°	139.3	138.7	138.0
50°	134.0	133.3	132.7
52.5°	129.3	128.0	127.3
55°	122.7	122.7	122.7
57.5°	118.7	118.7	118.0
60°	114.7	114.0	114.0
62.5°	111.3	110.0	110.7
65°	109.3	107.3	107.3
67°	108.0	104.0	104.0
67.5°	108.0	102.7	102.7
70°	106.0	97.3	96.0
72.5°	104.0	91.3	89.3
75°	98.7	86.7	84.7
77.5°	84.7	77.3	76.0
80°	65.3	56.7	58.0
82.5°	47.3	40.7	40.0
85°	34.0	29.3	29.3
87.5°	18.0	15.3	16.0
90°	0.0	0.0	0.0

(END OF REPORT)