

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: P148803

Luminaire Tested: **VWM-F03-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148803
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-F03-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6529.7 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

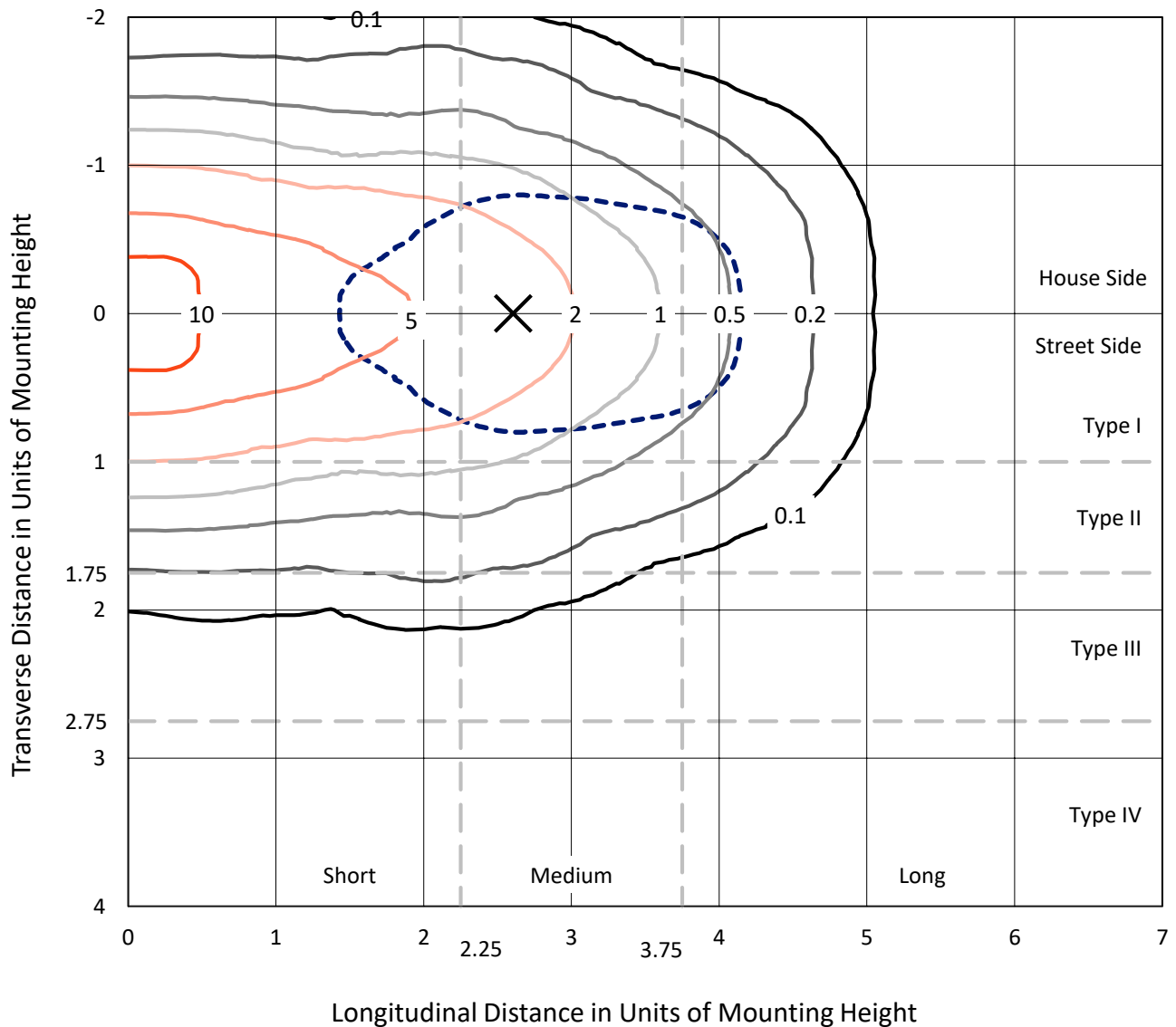
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P148803
 CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

Iso-Footcandle Lines of Horizontal Illumination

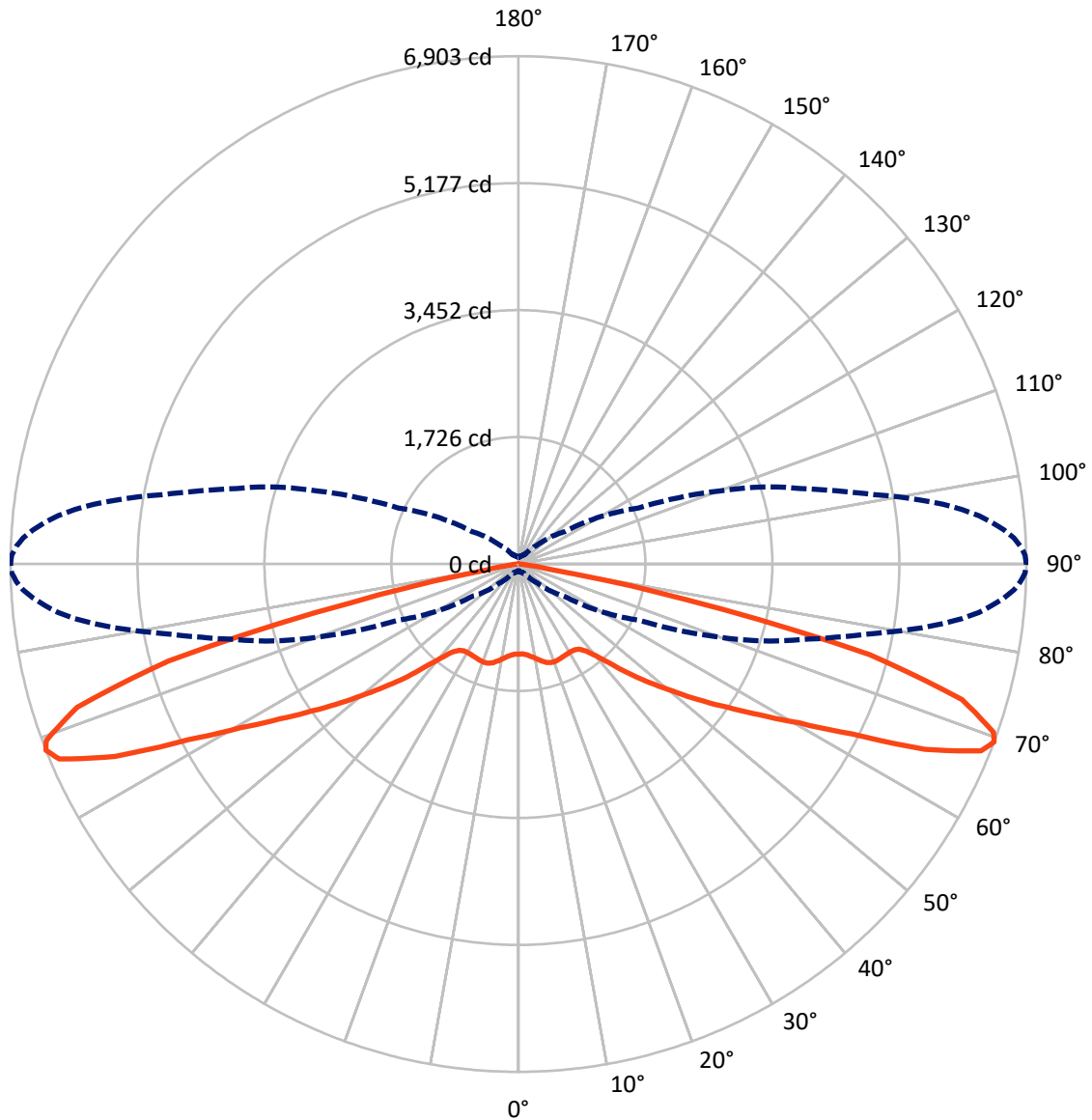
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P148803
CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P148803

CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3264.8	0.0	3264.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3264.8	0.0	3264.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6529.7	0.0	6529.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	1.8
10°-20°	378.6	5.8
20°-30°	613.3	9.4
30°-40°	764.4	11.7
40°-50°	955.2	14.6
50°-60°	1179.4	18.1
60°-70°	1465.5	22.4
70°-80°	972.9	14.9
80°-90°	80.3	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°	6529.7	100.0
0°-180°	6529.7	100.0



REPORT NUMBER: P148803

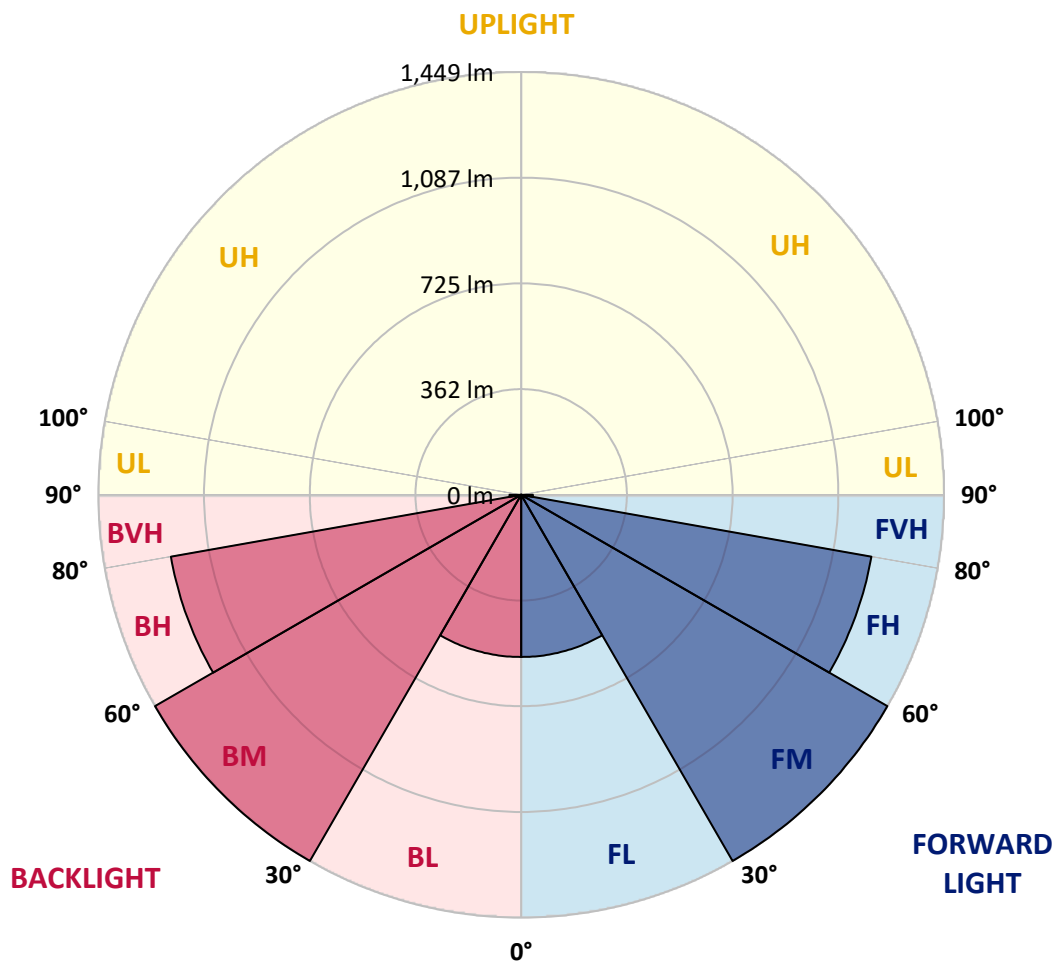
CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.0	8.5			
FM (30°-60°)	1449.5	22.2			
FH (60°-80°)	1219.2	18.7			G1/1800
FVH (80°-90°)	40.2	0.6			G1/100
BL (0°-30°)	556.0	8.5	B2/1000		
BM (30°-60°)	1449.5	22.2	B2/2500		
BH (60°-80°)	1219.2	18.7	B3/2500		G3/2500
BVH (80°-90°)	40.2	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: P148803

CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5
2.5°	1229.0	1230.1	1229.4	1230.8	1230.4	1230.4	1229.8	1228.4	1228.2	1228.0	1227.8
5°	1240.8	1239.4	1241.6	1243.6	1243.0	1243.4	1243.0	1242.9	1242.8	1242.7	1242.5
7.5°	1253.4	1253.1	1254.5	1260.0	1260.7	1262.8	1265.3	1267.0	1267.1	1267.1	1267.2
10°	1264.2	1264.6	1268.1	1276.0	1280.2	1286.8	1293.5	1298.7	1299.1	1299.5	1299.9
12.5°	1273.0	1273.3	1278.5	1291.0	1301.2	1313.7	1328.0	1336.0	1336.7	1337.4	1338.1
15°	1273.6	1274.7	1283.7	1304.3	1324.5	1345.0	1362.1	1372.9	1373.5	1374.1	1374.6
17.5°	1264.6	1265.3	1280.6	1310.9	1344.7	1376.8	1394.5	1399.4	1399.6	1399.8	1400.0
20°	1240.9	1242.6	1264.2	1309.2	1360.8	1402.5	1421.0	1414.4	1413.7	1413.1	1412.4
22.5°	1202.6	1202.2	1230.4	1291.1	1363.9	1422.8	1439.1	1421.7	1419.6	1417.6	1415.5
25°	1140.6	1144.8	1177.8	1250.3	1346.1	1427.2	1452.0	1425.5	1422.5	1419.6	1416.6
27.5°	1073.3	1075.8	1110.9	1188.6	1304.6	1411.6	1458.2	1433.2	1429.8	1426.6	1423.2
30°	995.0	998.1	1035.7	1116.9	1238.1	1371.2	1456.6	1450.6	1446.7	1442.9	1439.0
32.5°	918.3	921.8	955.6	1044.4	1168.1	1315.8	1446.0	1475.4	1471.4	1467.4	1463.4
35°	838.8	844.1	885.2	975.0	1100.4	1254.1	1430.0	1507.0	1504.9	1502.7	1500.5
37.5°	773.0	774.0	813.8	908.2	1037.8	1195.2	1408.8	1547.1	1548.7	1550.3	1551.9
40°	699.6	706.2	745.8	845.5	981.0	1145.4	1388.6	1601.4	1609.8	1618.1	1626.4
42.5°	633.7	634.4	674.8	777.6	919.4	1105.4	1377.4	1667.0	1684.8	1702.6	1720.4
45°	564.4	567.2	603.7	703.0	848.3	1058.0	1377.1	1742.6	1771.0	1799.4	1827.8
47.5°	498.8	499.9	538.6	630.9	766.8	991.8	1374.6	1823.8	1862.4	1901.1	1939.8
50°	436.2	435.1	473.0	561.9	686.3	905.0	1353.4	1915.7	1964.6	2013.4	2062.3
52.5°	364.4	369.2	408.6	493.6	613.1	817.0	1291.4	2016.4	2074.8	2133.3	2191.7
55°	294.0	296.2	338.3	417.7	539.0	734.7	1183.4	2109.0	2177.9	2246.8	2315.7
57.5°	216.7	223.0	259.8	338.2	463.6	665.4	1046.2	2157.1	2240.9	2324.8	2408.6
60°	153.0	157.8	190.6	256.4	381.1	592.6	928.0	2130.2	2239.2	2348.2	2457.2
62.5°	119.2	123.0	149.1	192.0	297.2	519.8	843.4	2043.6	2191.8	2340.1	2488.3
65°	104.5	108.0	131.7	153.6	221.9	445.6	797.0	1952.0	2147.9	2343.9	2539.9
67.5°	94.4	98.6	119.1	134.5	180.8	388.8	784.9	1894.0	2116.0	2338.0	2560.0
69°	89.9	94.1	112.6	125.4	168.0	368.6	764.0	1803.2	2023.8	2244.5	2465.2
70°	87.1	90.6	107.6	120.8	163.8	354.7	729.2	1689.6	1906.3	2123.0	2339.8
72.5°	80.8	82.6	97.6	110.4	151.9	286.7	560.9	1254.8	1442.7	1630.6	1818.4
75°	71.4	73.5	87.4	99.9	118.4	178.0	355.0	776.2	916.4	1056.7	1196.9
77.5°	61.6	63.4	75.6	95.4	92.0	111.1	212.2	432.0	513.3	594.6	676.0
80°	49.5	51.6	62.4	94.8	76.0	86.4	152.6	302.0	324.0	345.9	367.9
82.5°	36.2	38.0	48.8	76.6	58.2	65.2	116.4	256.0	263.7	271.3	278.9
85°	18.5	18.8	31.0	46.7	36.9	33.8	65.4	175.2	180.1	185.0	189.9
87.5°	3.2	3.2	7.0	8.0	9.0	5.6	8.4	30.0	30.9	31.8	32.8
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: P148803

CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5
2.5°	1227.6	1227.5	1226.9	1227.0	1227.4	1227.2	1227.6	1227.7	1228.1	1226.8	1226.5
5°	1242.4	1242.2	1242.2	1242.1	1242.4	1242.3	1242.6	1243.2	1243.0	1242.2	1242.0
7.5°	1267.3	1267.4	1267.7	1267.4	1268.0	1267.7	1267.0	1268.1	1268.9	1269.0	1269.7
10°	1300.2	1300.6	1301.8	1301.7	1302.9	1302.7	1302.9	1304.1	1304.9	1305.0	1305.9
12.5°	1338.8	1339.5	1340.1	1340.8	1342.0	1341.3	1343.0	1343.7	1344.7	1346.8	1345.8
15°	1375.2	1375.7	1377.6	1377.7	1378.9	1379.4	1381.0	1381.6	1381.8	1383.5	1383.8
17.5°	1400.2	1400.4	1401.2	1400.8	1401.8	1401.5	1402.6	1403.1	1404.0	1404.9	1406.5
20°	1411.7	1411.1	1410.7	1410.3	1409.6	1408.5	1408.8	1409.3	1409.4	1410.3	1411.5
22.5°	1413.5	1411.4	1409.3	1407.9	1405.8	1404.0	1402.2	1402.3	1402.5	1402.2	1403.1
25°	1413.7	1410.7	1407.4	1403.4	1400.4	1396.4	1393.1	1392.8	1391.9	1392.0	1392.4
27.5°	1419.9	1416.6	1412.0	1407.4	1401.0	1395.6	1390.3	1388.4	1386.6	1385.4	1384.9
30°	1435.1	1431.2	1425.7	1419.8	1412.9	1404.6	1397.0	1394.6	1391.9	1389.5	1387.5
32.5°	1459.5	1455.5	1449.4	1443.2	1433.9	1425.7	1418.2	1414.4	1410.5	1406.4	1402.5
35°	1498.3	1496.1	1490.7	1485.3	1478.5	1472.0	1465.2	1460.9	1454.5	1451.2	1446.6
37.5°	1553.5	1555.1	1555.1	1555.8	1553.7	1550.6	1545.7	1541.2	1539.1	1530.4	1524.8
40°	1634.8	1643.1	1650.7	1656.6	1661.8	1666.9	1671.4	1668.8	1669.7	1667.4	1664.0
42.5°	1738.2	1756.0	1772.2	1788.5	1800.2	1818.6	1831.4	1835.4	1845.7	1849.8	1857.3
45°	1856.2	1884.7	1912.0	1937.2	1960.7	1987.0	2012.6	2031.6	2052.3	2075.8	2099.4
47.5°	1978.5	2017.2	2057.5	2090.4	2124.3	2163.2	2197.2	2225.8	2263.1	2297.7	2335.7
50°	2111.2	2160.0	2205.9	2246.5	2290.2	2334.9	2381.4	2423.5	2473.9	2529.3	2589.1
52.5°	2250.2	2308.6	2361.7	2412.6	2463.8	2515.1	2564.6	2624.1	2686.3	2759.4	2834.1
55°	2384.6	2453.6	2513.7	2570.3	2629.0	2686.4	2737.4	2817.0	2893.4	2980.5	3078.1
57.5°	2492.5	2576.3	2645.7	2713.0	2779.2	2840.2	2902.9	2992.6	3090.0	3191.8	3315.6
60°	2566.1	2675.1	2763.7	2844.5	2925.8	3002.5	3074.7	3191.9	3307.7	3434.3	3588.4
62.5°	2636.6	2784.9	2900.4	3010.6	3120.2	3218.7	3308.4	3455.8	3607.2	3763.6	3947.0
65°	2735.9	2931.8	3102.0	3255.8	3407.5	3552.2	3686.4	3873.2	4064.2	4270.2	4489.0
67.5°	2782.0	3004.0	3225.5	3432.8	3625.4	3808.7	3981.2	4206.9	4431.7	4670.4	4934.9
69°	2685.9	2906.6	3143.4	3369.9	3582.7	3777.0	3963.7	4194.3	4428.0	4671.7	4938.5
70°	2556.5	2773.2	3012.2	3248.9	3452.4	3655.0	3848.4	4077.2	4313.9	4558.3	4837.6
72.5°	2006.3	2194.2	2427.4	2657.0	2861.3	3064.5	3252.4	3486.4	3724.8	3981.5	4245.9
75°	1337.2	1477.4	1651.1	1864.2	2051.5	2231.1	2413.2	2611.2	2843.6	3055.3	3297.1
77.5°	757.3	838.7	939.6	1078.2	1212.5	1320.1	1449.9	1543.1	1678.0	1794.5	1917.6
80°	389.8	411.8	441.9	475.1	494.1	491.1	510.4	491.3	495.5	479.9	463.2
82.5°	286.6	294.2	307.8	314.5	313.8	291.9	268.6	236.3	207.8	177.9	150.4
85°	194.7	199.6	203.0	208.2	206.7	197.2	176.2	148.2	120.8	96.9	77.5
87.5°	33.7	34.7	34.4	37.3	37.4	34.7	28.6	24.4	20.5	15.4	10.8
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: P148803

CATALOG NUMBER: VWM-F03-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5	1223.5
2.5°	1226.2	1226.2	1227.0	1226.2	1226.2	1226.2	1226.0	1226.6	1226.3	1225.2	1224.2
5°	1242.2	1241.2	1240.9	1241.6	1242.3	1240.9	1242.0	1243.0	1241.2	1241.6	1240.9
7.5°	1269.1	1268.8	1268.4	1269.1	1269.1	1268.8	1269.1	1268.1	1267.4	1268.4	1269.5
10°	1305.0	1304.6	1305.3	1305.4	1306.7	1306.1	1305.7	1306.8	1306.1	1305.4	1305.7
12.5°	1347.1	1346.1	1347.8	1347.8	1348.9	1348.9	1348.6	1348.9	1348.6	1347.5	1346.8
15°	1384.8	1383.4	1383.7	1386.5	1386.2	1386.8	1386.9	1386.2	1385.8	1385.4	1385.8
17.5°	1407.4	1406.7	1406.7	1408.1	1409.2	1408.8	1408.8	1408.8	1408.4	1408.8	1409.5
20°	1411.6	1411.6	1411.9	1413.4	1415.1	1414.0	1414.1	1414.8	1414.0	1414.8	1415.1
22.5°	1403.6	1404.3	1405.0	1406.8	1407.1	1407.1	1407.0	1407.4	1408.1	1408.1	1408.8
25°	1392.4	1393.1	1394.2	1395.6	1397.0	1397.0	1396.9	1397.6	1397.6	1398.0	1398.3
27.5°	1384.1	1384.8	1385.8	1387.2	1389.0	1388.9	1389.0	1389.6	1389.6	1390.0	1390.7
30°	1385.1	1383.7	1384.8	1385.4	1386.5	1386.5	1386.2	1386.5	1386.8	1386.8	1387.2
32.5°	1400.1	1397.0	1395.9	1395.6	1396.0	1394.8	1394.5	1393.8	1393.1	1393.2	1392.8
35°	1439.9	1434.9	1434.6	1431.8	1429.0	1426.2	1426.6	1424.4	1425.1	1423.4	1422.0
37.5°	1521.3	1515.8	1519.2	1513.4	1509.4	1506.7	1503.6	1499.4	1497.0	1500.1	1500.1
40°	1667.3	1663.4	1662.4	1663.4	1660.0	1661.7	1654.0	1652.0	1647.4	1650.6	1654.7
42.5°	1869.0	1866.6	1879.8	1882.2	1883.6	1885.7	1887.1	1875.6	1875.2	1872.8	1865.9
45°	2118.0	2132.8	2132.0	2148.0	2148.8	2143.8	2146.0	2140.7	2138.6	2131.0	2140.4
47.5°	2374.1	2402.0	2412.4	2416.0	2429.2	2432.3	2419.8	2415.6	2422.9	2410.4	2412.1
50°	2649.0	2679.0	2703.4	2719.7	2729.1	2729.8	2720.4	2718.3	2724.9	2701.2	2712.4
52.5°	2919.3	2964.6	3010.6	3035.0	3052.4	3053.8	3061.1	3052.4	3055.9	3050.3	3061.5
55°	3185.8	3264.2	3318.2	3365.9	3396.2	3422.4	3424.8	3434.2	3434.9	3446.4	3434.9
57.5°	3446.4	3531.8	3625.8	3710.5	3757.5	3787.1	3815.0	3853.0	3861.3	3856.8	3864.1
60°	3754.0	3886.0	4013.9	4111.4	4192.6	4270.3	4312.1	4371.6	4381.1	4406.8	4384.6
62.5°	4142.8	4334.4	4507.8	4639.2	4762.5	4883.4	4974.7	5020.7	5048.5	5102.5	5084.8
65°	4739.2	4969.1	5198.6	5386.8	5559.6	5703.4	5842.2	5908.4	5981.5	6058.1	6072.1
67.5°	5230.4	5515.0	5773.8	6003.1	6212.4	6372.4	6516.6	6631.2	6720.4	6776.8	6781.3
69°	5252.7	5548.4	5829.6	6075.6	6294.0	6464.0	6615.8	6743.4	6830.1	6887.9	6903.3
70°	5146.0	5448.8	5748.4	5996.8	6220.4	6394.3	6555.2	6676.8	6773.7	6832.6	6853.1
72.5°	4546.6	4869.8	5190.0	5407.8	5636.2	5843.2	5972.0	6096.1	6232.6	6250.4	6306.9
75°	3584.0	3855.8	4104.1	4270.6	4461.6	4647.2	4773.7	4806.5	4877.8	4967.8	4935.7
77.5°	2077.0	2160.6	2320.8	2362.0	2327.1	2408.0	2434.8	2377.6	2374.8	2427.4	2322.9
80°	460.2	434.1	466.8	442.4	443.2	443.8	436.5	433.7	439.0	433.8	426.4
82.5°	127.5	123.4	124.0	122.6	125.0	123.3	122.2	125.0	124.7	124.4	126.8
85°	61.3	60.6	59.6	59.2	57.8	56.1	53.3	53.3	54.7	52.6	53.6
87.5°	8.0	7.7	7.7	9.1	8.0	6.6	6.6	6.6	6.3	6.3	6.3
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)