

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: P152800

Luminaire Tested: **VWM-E04-LED-E1-SLL**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152800
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
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-SLL
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11129.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - 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

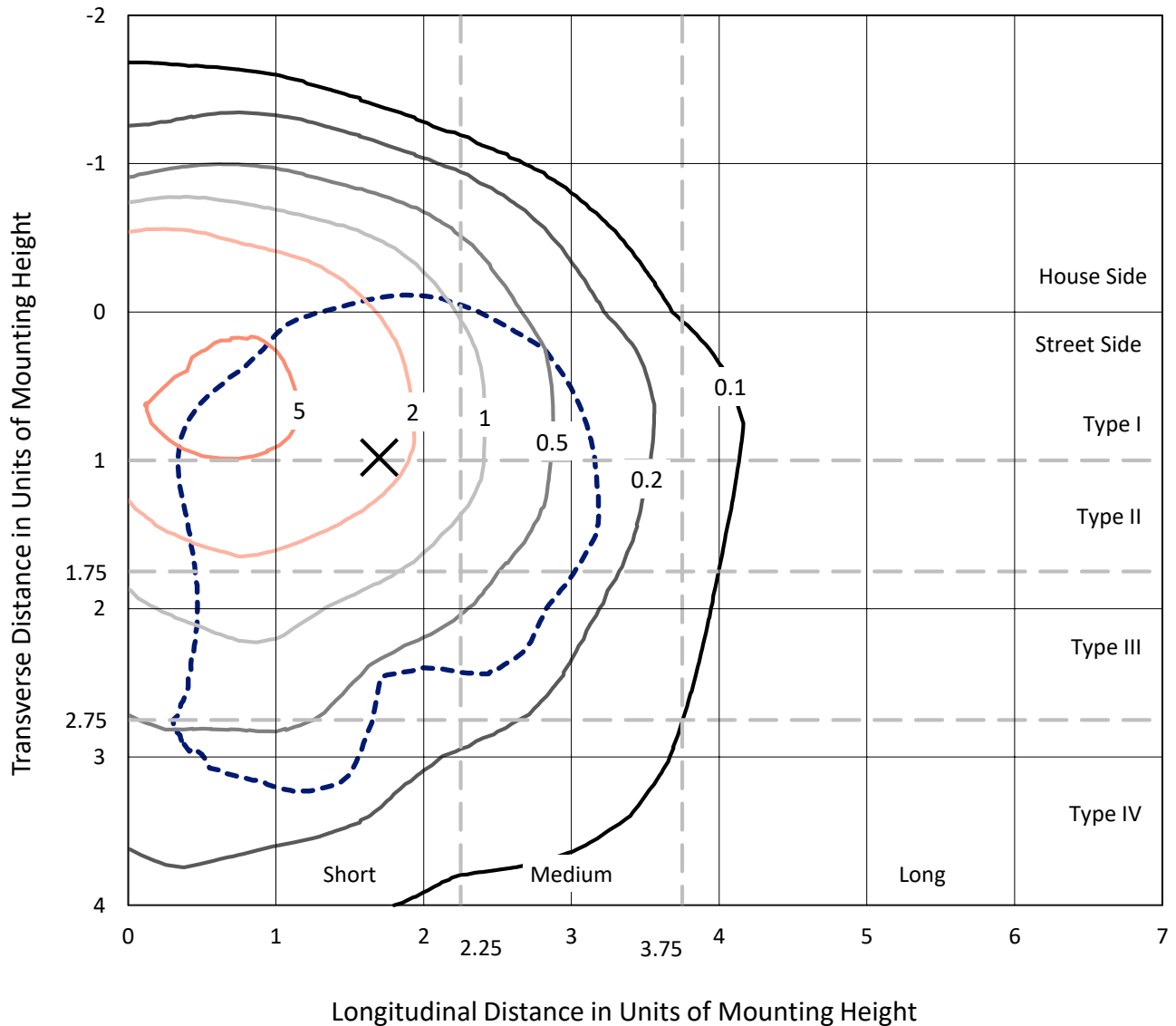


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Iso-Footcandle Lines of Horizontal Illumination

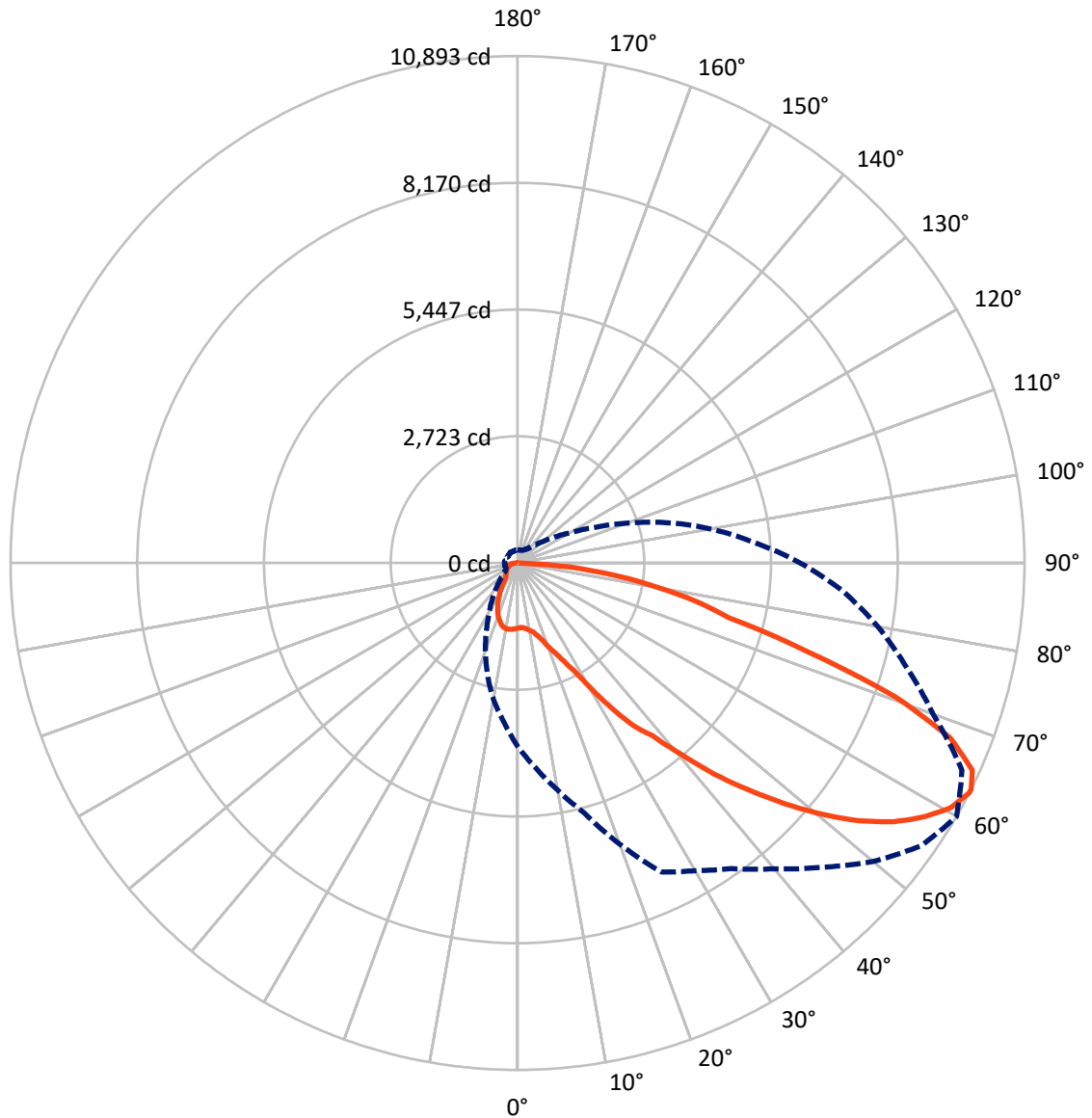
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2413.5 | 0.0 | 2413.5 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 8716.4 | 0.0 | 8716.4 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 11129.8 | 0.0 | 11129.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.1 | 1.2 |
| 10°-20° | 424.0 | 3.8 |
| 20°-30° | 753.3 | 6.8 |
| 30°-40° | 1186.3 | 10.7 |
| 40°-50° | 1745.9 | 15.7 |
| 50°-60° | 2319.0 | 20.8 |
| 60°-70° | 2554.4 | 23.0 |
| 70°-80° | 1602.6 | 14.4 |
| 80°-90° | 408.2 | 3.7 |
| 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° | 11129.8 | 100.0 |
| 0°-180° | 11129.8 | 100.0 |

Coefficient of Utilization



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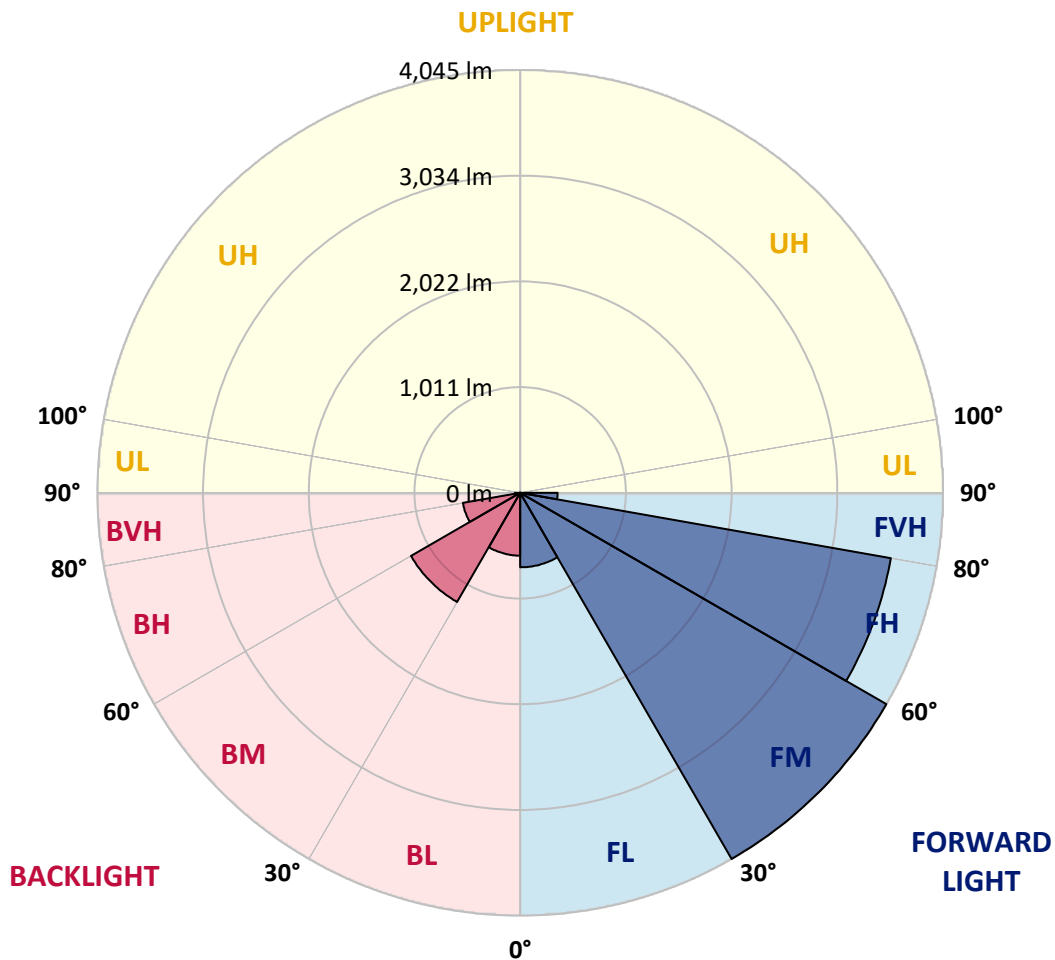
CATALOG NUMBER: VWM-E04-LED-E1-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 712.7 | 6.4 | | | |
| FM (30°-60°) | 4044.8 | 36.3 | | | |
| FH (60°-80°) | 3600.7 | 32.4 | | | G2/5000 |
| FVH (80°-90°) | 358.2 | 3.2 | | | G3/500 |
| BL (0°-30°) | 600.9 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1206.3 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 556.3 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 50.0 | 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-G3

Type IV Short





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CATALOG NUMBER: VWM-E04-LED-E1-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 |
| 2.5° | 1380.0 | 1382.7 | 1382.7 | 1381.3 | 1381.3 | 1384.0 | 1382.7 | 1381.3 | 1377.3 | 1382.7 | 1382.7 |
| 5° | 1369.3 | 1372.0 | 1372.0 | 1374.7 | 1377.3 | 1380.0 | 1380.0 | 1382.7 | 1381.3 | 1386.7 | 1390.7 |
| 7.5° | 1382.7 | 1385.3 | 1390.7 | 1397.3 | 1401.3 | 1410.7 | 1410.7 | 1417.3 | 1420.0 | 1424.0 | 1422.7 |
| 10° | 1400.0 | 1406.7 | 1418.7 | 1429.3 | 1437.3 | 1448.0 | 1456.0 | 1465.3 | 1465.3 | 1469.3 | 1472.0 |
| 12.5° | 1430.7 | 1437.3 | 1450.7 | 1464.0 | 1476.0 | 1489.3 | 1501.3 | 1510.7 | 1520.0 | 1522.7 | 1528.0 |
| 15° | 1481.3 | 1489.3 | 1509.3 | 1528.0 | 1542.7 | 1560.0 | 1576.0 | 1594.7 | 1612.0 | 1616.0 | 1618.7 |
| 17.5° | 1557.3 | 1573.3 | 1588.0 | 1621.3 | 1642.7 | 1665.3 | 1690.7 | 1717.3 | 1722.7 | 1750.7 | 1757.3 |
| 20° | 1665.3 | 1685.3 | 1698.7 | 1740.0 | 1776.0 | 1805.3 | 1842.7 | 1873.3 | 1885.3 | 1912.0 | 1938.7 |
| 22.5° | 1852.0 | 1848.0 | 1868.0 | 1909.3 | 1936.0 | 1994.7 | 2026.7 | 2058.7 | 2074.7 | 2114.7 | 2136.0 |
| 25° | 2102.7 | 2124.0 | 2168.0 | 2172.0 | 2197.3 | 2265.3 | 2306.7 | 2338.7 | 2340.0 | 2352.0 | 2374.7 |
| 27.5° | 2349.3 | 2437.3 | 2506.7 | 2544.0 | 2612.0 | 2674.7 | 2672.0 | 2717.3 | 2646.7 | 2661.3 | 2682.7 |
| 30° | 2648.0 | 2794.7 | 2925.3 | 3013.3 | 3082.7 | 3156.0 | 3192.0 | 3217.3 | 3186.7 | 3173.3 | 3148.0 |
| 32.5° | 2928.0 | 3133.3 | 3334.7 | 3490.7 | 3620.0 | 3741.3 | 3821.3 | 3857.3 | 3900.0 | 4008.0 | 4046.7 |
| 35° | 3120.0 | 3410.7 | 3661.3 | 3886.7 | 4102.7 | 4296.0 | 4436.0 | 4516.0 | 4485.3 | 4470.7 | 4462.7 |
| 37.5° | 3234.7 | 3589.3 | 3902.7 | 4221.3 | 4469.3 | 4758.7 | 4976.0 | 5186.7 | 5234.7 | 5150.7 | 5109.3 |
| 40° | 3306.7 | 3726.7 | 4129.3 | 4505.3 | 4826.7 | 5200.0 | 5469.3 | 5785.3 | 6025.3 | 6057.3 | 5958.7 |
| 42.5° | 3341.3 | 3818.7 | 4288.0 | 4713.3 | 5148.0 | 5605.3 | 5946.7 | 6329.3 | 6688.0 | 6934.7 | 6873.3 |
| 45° | 3346.7 | 3878.7 | 4404.0 | 4901.3 | 5418.7 | 5961.3 | 6401.3 | 6825.3 | 7305.3 | 7728.0 | 7740.0 |
| 47.5° | 3346.7 | 3924.0 | 4484.0 | 5037.3 | 5661.3 | 6270.7 | 6750.7 | 7252.0 | 7840.0 | 8340.0 | 8493.3 |
| 50° | 3349.3 | 3954.7 | 4558.7 | 5144.0 | 5846.7 | 6532.0 | 7074.7 | 7666.7 | 8285.3 | 8829.3 | 9125.3 |
| 52.5° | 3361.3 | 3977.3 | 4617.3 | 5220.0 | 5966.7 | 6716.0 | 7326.7 | 8009.3 | 8625.3 | 9184.0 | 9566.7 |
| 55° | 3388.0 | 4009.3 | 4660.0 | 5266.7 | 6046.7 | 6836.0 | 7509.3 | 8244.0 | 8845.3 | 9412.0 | 9946.7 |
| 57.5° | 3462.7 | 4065.3 | 4712.0 | 5308.0 | 6090.7 | 6914.7 | 7637.3 | 8345.3 | 8929.3 | 9520.0 | 10148.0 |
| 60° | 3612.0 | 4184.0 | 4801.3 | 5390.7 | 6164.0 | 7060.0 | 7698.7 | 8277.3 | 8868.0 | 9488.0 | 10193.3 |
| 62.5° | 3850.7 | 4369.3 | 4925.3 | 5530.7 | 6373.3 | 7285.3 | 7652.0 | 8074.7 | 8626.7 | 9302.7 | 10032.0 |
| 63° | 3933.3 | 4409.3 | 4953.3 | 5561.3 | 6430.7 | 7326.7 | 7632.0 | 8014.7 | 8577.3 | 9244.0 | 9974.7 |
| 65° | 4164.0 | 4586.7 | 5086.7 | 5716.0 | 6666.7 | 7368.0 | 7476.0 | 7702.7 | 8236.0 | 8909.3 | 9636.0 |
| 67.5° | 4594.7 | 5017.3 | 5373.3 | 5977.3 | 6865.3 | 7205.3 | 6992.0 | 7020.0 | 7577.3 | 8274.7 | 8928.0 |
| 70° | 4866.7 | 5370.7 | 5556.0 | 6010.7 | 6829.3 | 6964.0 | 6365.3 | 5994.7 | 6441.3 | 7236.0 | 7808.0 |
| 72.5° | 4796.0 | 5374.7 | 5354.7 | 5566.7 | 6109.3 | 6234.7 | 5614.7 | 5030.7 | 5296.0 | 5889.3 | 6260.0 |
| 75° | 4108.0 | 4800.0 | 4653.3 | 4610.7 | 4801.3 | 4884.0 | 4418.7 | 4329.3 | 4664.0 | 4993.3 | 4998.7 |
| 77.5° | 2957.3 | 3718.7 | 3546.7 | 3300.0 | 3286.7 | 3477.3 | 3540.0 | 4125.3 | 4620.0 | 4880.0 | 4765.3 |
| 80° | 1884.0 | 2709.3 | 2530.7 | 2100.0 | 2093.3 | 2341.3 | 2892.0 | 3688.0 | 4212.0 | 4357.3 | 4058.7 |
| 82.5° | 984.0 | 1773.3 | 1841.3 | 1576.0 | 1804.0 | 2214.7 | 2752.0 | 2972.0 | 3170.7 | 3190.7 | 2838.7 |
| 85° | 613.3 | 1090.7 | 1282.7 | 1324.0 | 1629.3 | 1964.0 | 1960.0 | 1882.7 | 1794.7 | 1536.0 | 1389.3 |
| 87.5° | 69.3 | 137.3 | 208.0 | 197.3 | 265.3 | 372.0 | 464.0 | 272.0 | 190.7 | 69.3 | 96.0 |
| 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-E04-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 |
| 2.5° | 1385.3 | 1386.7 | 1388.0 | 1388.0 | 1394.7 | 1393.3 | 1394.7 | 1397.3 | 1401.3 | 1404.0 | 1406.7 |
| 5° | 1396.0 | 1396.0 | 1401.3 | 1405.3 | 1413.3 | 1418.7 | 1421.3 | 1429.3 | 1438.7 | 1436.0 | 1444.0 |
| 7.5° | 1430.7 | 1429.3 | 1434.7 | 1437.3 | 1444.0 | 1453.3 | 1452.0 | 1458.7 | 1466.7 | 1469.3 | 1476.0 |
| 10° | 1477.3 | 1473.3 | 1473.3 | 1470.7 | 1472.0 | 1469.3 | 1469.3 | 1469.3 | 1474.7 | 1473.3 | 1478.7 |
| 12.5° | 1525.3 | 1524.0 | 1521.3 | 1513.3 | 1513.3 | 1502.7 | 1497.3 | 1490.7 | 1489.3 | 1480.0 | 1481.3 |
| 15° | 1624.0 | 1624.0 | 1618.7 | 1602.7 | 1589.3 | 1580.0 | 1566.7 | 1557.3 | 1544.0 | 1526.7 | 1517.3 |
| 17.5° | 1768.0 | 1749.3 | 1742.7 | 1740.0 | 1718.7 | 1710.7 | 1681.3 | 1650.7 | 1636.0 | 1612.0 | 1598.7 |
| 20° | 1944.0 | 1940.0 | 1913.3 | 1900.0 | 1873.3 | 1836.0 | 1798.7 | 1758.7 | 1734.7 | 1705.3 | 1689.3 |
| 22.5° | 2142.7 | 2113.3 | 2100.0 | 2080.0 | 2038.7 | 1996.0 | 1940.0 | 1886.7 | 1849.3 | 1829.3 | 1817.3 |
| 25° | 2374.7 | 2345.3 | 2332.0 | 2305.3 | 2254.7 | 2209.3 | 2140.0 | 2077.3 | 2044.0 | 2010.7 | 1992.0 |
| 27.5° | 2682.7 | 2654.7 | 2638.7 | 2569.3 | 2552.0 | 2477.3 | 2392.0 | 2306.7 | 2262.7 | 2213.3 | 2181.3 |
| 30° | 3142.7 | 3144.0 | 3061.3 | 2977.3 | 2890.7 | 2761.3 | 2672.0 | 2576.0 | 2504.0 | 2433.3 | 2362.7 |
| 32.5° | 3920.0 | 3721.3 | 3568.0 | 3388.0 | 3200.0 | 3062.7 | 2952.0 | 2837.3 | 2737.3 | 2634.7 | 2517.3 |
| 35° | 4394.7 | 4298.7 | 4100.0 | 3770.7 | 3581.3 | 3414.7 | 3292.0 | 3153.3 | 3030.7 | 2849.3 | 2670.7 |
| 37.5° | 4930.7 | 4708.0 | 4466.7 | 4284.0 | 4069.3 | 3876.0 | 3670.7 | 3513.3 | 3301.3 | 3057.3 | 2804.0 |
| 40° | 5713.3 | 5394.7 | 5104.0 | 4858.7 | 4581.3 | 4378.7 | 4149.3 | 3921.3 | 3640.0 | 3286.7 | 2938.7 |
| 42.5° | 6530.7 | 6201.3 | 5817.3 | 5498.7 | 5172.0 | 4934.7 | 4650.7 | 4330.7 | 3917.3 | 3480.0 | 3054.7 |
| 45° | 7388.0 | 6948.0 | 6488.0 | 6098.7 | 5758.7 | 5464.0 | 5112.0 | 4688.0 | 4184.0 | 3653.3 | 3162.7 |
| 47.5° | 8233.3 | 7728.0 | 7180.0 | 6761.3 | 6318.7 | 5958.7 | 5526.7 | 4990.7 | 4392.0 | 3817.3 | 3270.7 |
| 50° | 8978.7 | 8492.0 | 7832.0 | 7300.0 | 6852.0 | 6408.0 | 5869.3 | 5224.0 | 4556.0 | 3958.7 | 3368.0 |
| 52.5° | 9621.3 | 9202.7 | 8508.0 | 7836.0 | 7320.0 | 6821.3 | 6145.3 | 5412.0 | 4721.3 | 4089.3 | 3448.0 |
| 55° | 10093.3 | 9814.7 | 9174.7 | 8341.3 | 7732.0 | 7137.3 | 6378.7 | 5593.3 | 4877.3 | 4193.3 | 3500.0 |
| 57.5° | 10449.3 | 10294.7 | 9745.3 | 8817.3 | 8110.7 | 7444.0 | 6620.0 | 5810.7 | 5032.0 | 4282.7 | 3524.0 |
| 60° | 10644.0 | 10686.7 | 10177.3 | 9233.3 | 8445.3 | 7700.0 | 6861.3 | 5996.0 | 5146.7 | 4334.7 | 3510.7 |
| 62.5° | 10625.3 | 10886.7 | 10501.3 | 9489.3 | 8640.0 | 7852.0 | 7024.0 | 6082.7 | 5130.7 | 4252.0 | 3389.3 |
| 63° | 10589.3 | 10893.3 | 10537.3 | 9506.7 | 8652.0 | 7857.3 | 7028.0 | 6070.7 | 5097.3 | 4212.0 | 3341.3 |
| 65° | 10278.7 | 10740.0 | 10506.7 | 9428.0 | 8545.3 | 7757.3 | 6944.0 | 5897.3 | 4862.7 | 3997.3 | 3094.7 |
| 67.5° | 9446.7 | 10024.0 | 9957.3 | 8872.0 | 8040.0 | 7344.0 | 6514.7 | 5338.7 | 4282.7 | 3469.3 | 2622.7 |
| 70° | 8072.0 | 8614.7 | 8626.7 | 7716.0 | 7021.3 | 6338.7 | 5649.3 | 4344.0 | 3394.7 | 2689.3 | 1956.0 |
| 72.5° | 6186.7 | 6536.0 | 6657.3 | 6057.3 | 5592.0 | 5112.0 | 4493.3 | 3153.3 | 2420.0 | 1829.3 | 1273.3 |
| 75° | 4790.7 | 4694.7 | 4693.3 | 4440.0 | 4250.7 | 4016.0 | 3336.0 | 2128.0 | 1589.3 | 1189.3 | 778.7 |
| 77.5° | 4306.7 | 3880.0 | 3466.7 | 3162.7 | 3010.7 | 2932.0 | 2188.0 | 1282.7 | 937.3 | 684.0 | 448.0 |
| 80° | 3552.0 | 2922.7 | 2361.3 | 2033.3 | 1902.7 | 1993.3 | 1220.0 | 693.3 | 513.3 | 389.3 | 290.7 |
| 82.5° | 2449.3 | 2033.3 | 1545.3 | 1280.0 | 1098.7 | 1149.3 | 624.0 | 354.7 | 237.3 | 217.3 | 180.0 |
| 85° | 1276.0 | 1118.7 | 944.0 | 810.7 | 716.0 | 629.3 | 324.0 | 169.3 | 98.7 | 86.7 | 78.7 |
| 87.5° | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-E04-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 |
| 2.5° | 1410.7 | 1409.3 | 1412.0 | 1413.3 | 1417.3 | 1420.0 | 1421.3 | 1418.7 | 1422.7 | 1426.7 | 1424.0 |
| 5° | 1448.0 | 1457.3 | 1458.7 | 1462.7 | 1462.7 | 1470.7 | 1470.7 | 1470.7 | 1469.3 | 1470.7 | 1468.0 |
| 7.5° | 1480.0 | 1492.0 | 1493.3 | 1498.7 | 1500.0 | 1509.3 | 1505.3 | 1508.0 | 1508.0 | 1501.3 | 1498.7 |
| 10° | 1484.0 | 1496.0 | 1502.7 | 1509.3 | 1518.7 | 1530.7 | 1530.7 | 1537.3 | 1537.3 | 1532.0 | 1530.7 |
| 12.5° | 1485.3 | 1494.7 | 1501.3 | 1510.7 | 1524.0 | 1541.3 | 1550.7 | 1560.0 | 1564.0 | 1562.7 | 1558.7 |
| 15° | 1513.3 | 1513.3 | 1514.7 | 1522.7 | 1532.0 | 1553.3 | 1566.7 | 1577.3 | 1584.0 | 1581.3 | 1574.7 |
| 17.5° | 1586.7 | 1576.0 | 1568.0 | 1554.7 | 1557.3 | 1568.0 | 1576.0 | 1585.3 | 1586.7 | 1584.0 | 1573.3 |
| 20° | 1672.0 | 1658.7 | 1638.7 | 1617.3 | 1606.7 | 1598.7 | 1593.3 | 1593.3 | 1589.3 | 1576.0 | 1558.7 |
| 22.5° | 1793.3 | 1776.0 | 1748.0 | 1716.0 | 1694.7 | 1669.3 | 1638.7 | 1609.3 | 1577.3 | 1545.3 | 1508.0 |
| 25° | 1961.3 | 1937.3 | 1908.0 | 1858.7 | 1813.3 | 1760.0 | 1697.3 | 1632.0 | 1556.0 | 1489.3 | 1434.7 |
| 27.5° | 2130.7 | 2077.3 | 2001.3 | 1933.3 | 1849.3 | 1769.3 | 1680.0 | 1600.0 | 1502.7 | 1422.7 | 1362.7 |
| 30° | 2270.7 | 2169.3 | 2060.0 | 1952.0 | 1841.3 | 1733.3 | 1626.7 | 1530.7 | 1424.0 | 1342.7 | 1284.0 |
| 32.5° | 2378.7 | 2238.7 | 2086.7 | 1945.3 | 1809.3 | 1677.3 | 1554.7 | 1448.0 | 1340.0 | 1256.0 | 1193.3 |
| 35° | 2478.7 | 2284.0 | 2090.7 | 1916.0 | 1748.0 | 1610.7 | 1472.0 | 1356.0 | 1241.3 | 1153.3 | 1085.3 |
| 37.5° | 2553.3 | 2305.3 | 2066.7 | 1861.3 | 1668.0 | 1514.7 | 1373.3 | 1254.7 | 1137.3 | 1041.3 | 964.0 |
| 40° | 2601.3 | 2292.0 | 2014.7 | 1782.7 | 1573.3 | 1412.0 | 1268.0 | 1145.3 | 1032.0 | 926.7 | 833.3 |
| 42.5° | 2640.0 | 2274.7 | 1962.7 | 1710.7 | 1498.7 | 1322.7 | 1174.7 | 1042.7 | 928.0 | 813.3 | 710.7 |
| 45° | 2697.3 | 2288.0 | 1940.0 | 1660.0 | 1432.0 | 1246.7 | 1084.0 | 946.7 | 826.7 | 714.7 | 616.0 |
| 47.5° | 2753.3 | 2294.7 | 1906.7 | 1597.3 | 1348.0 | 1168.0 | 1002.7 | 869.3 | 746.7 | 644.0 | 553.3 |
| 50° | 2804.0 | 2290.7 | 1854.7 | 1517.3 | 1266.7 | 1089.3 | 929.3 | 796.0 | 674.7 | 580.0 | 494.7 |
| 52.5° | 2828.0 | 2268.0 | 1790.7 | 1440.0 | 1201.3 | 1020.0 | 857.3 | 728.0 | 608.0 | 518.7 | 440.0 |
| 55° | 2825.3 | 2209.3 | 1706.7 | 1366.7 | 1129.3 | 946.7 | 786.7 | 658.7 | 550.7 | 468.0 | 400.0 |
| 57.5° | 2785.3 | 2118.7 | 1617.3 | 1285.3 | 1034.7 | 856.0 | 704.0 | 580.0 | 489.3 | 420.0 | 362.7 |
| 60° | 2701.3 | 2002.7 | 1500.0 | 1166.7 | 916.0 | 744.0 | 601.3 | 494.7 | 421.3 | 368.0 | 330.7 |
| 62.5° | 2544.0 | 1836.0 | 1353.3 | 1001.3 | 756.0 | 598.7 | 474.7 | 405.3 | 350.7 | 318.7 | 301.3 |
| 63° | 2497.3 | 1790.7 | 1290.7 | 961.3 | 718.7 | 565.3 | 448.0 | 376.0 | 336.0 | 308.0 | 292.0 |
| 65° | 2265.3 | 1568.0 | 1080.0 | 776.0 | 558.7 | 436.0 | 360.0 | 305.3 | 281.3 | 269.3 | 268.0 |
| 67.5° | 1834.7 | 1233.3 | 764.0 | 532.0 | 380.0 | 314.7 | 276.0 | 253.3 | 242.7 | 240.0 | 242.7 |
| 70° | 1288.0 | 778.7 | 485.3 | 353.3 | 281.3 | 253.3 | 236.0 | 226.7 | 220.0 | 221.3 | 224.0 |
| 72.5° | 821.3 | 466.7 | 333.3 | 268.0 | 237.3 | 222.7 | 214.7 | 212.0 | 210.7 | 209.3 | 209.3 |
| 75° | 468.0 | 310.7 | 256.0 | 232.0 | 216.0 | 204.0 | 197.3 | 194.7 | 196.0 | 197.3 | 194.7 |
| 77.5° | 309.3 | 256.0 | 228.0 | 212.0 | 197.3 | 184.0 | 180.0 | 178.7 | 181.3 | 184.0 | 184.0 |
| 80° | 244.0 | 228.0 | 212.0 | 196.0 | 172.0 | 162.7 | 165.3 | 166.7 | 165.3 | 166.7 | 162.7 |
| 82.5° | 172.0 | 169.3 | 173.3 | 166.7 | 142.7 | 134.7 | 132.0 | 133.3 | 130.7 | 130.7 | 128.0 |
| 85° | 80.0 | 80.0 | 84.0 | 84.0 | 81.3 | 82.7 | 89.3 | 97.3 | 101.3 | 97.3 | 92.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | 24.0 | 34.7 | 37.3 | 46.7 | 45.3 |
| 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: P152800

CATALOG NUMBER: VWM-E04-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 |
| 2.5° | 1420.0 | 1422.7 | 1421.3 | 1420.0 | 1422.7 | 1420.0 | 1421.3 | 1420.0 | 1420.0 | 1418.7 | 1418.7 |
| 5° | 1465.3 | 1469.3 | 1461.3 | 1460.0 | 1457.3 | 1450.7 | 1450.7 | 1448.0 | 1448.0 | 1442.7 | 1438.7 |
| 7.5° | 1494.7 | 1496.0 | 1489.3 | 1488.0 | 1481.3 | 1474.7 | 1469.3 | 1464.0 | 1462.7 | 1458.7 | 1450.7 |
| 10° | 1522.7 | 1520.0 | 1514.7 | 1508.0 | 1501.3 | 1492.0 | 1485.3 | 1478.7 | 1477.3 | 1470.7 | 1461.3 |
| 12.5° | 1546.7 | 1545.3 | 1534.7 | 1528.0 | 1517.3 | 1508.0 | 1500.0 | 1492.0 | 1488.0 | 1480.0 | 1466.7 |
| 15° | 1562.7 | 1554.7 | 1541.3 | 1529.3 | 1517.3 | 1506.7 | 1497.3 | 1488.0 | 1484.0 | 1474.7 | 1461.3 |
| 17.5° | 1556.0 | 1541.3 | 1524.0 | 1509.3 | 1493.3 | 1480.0 | 1472.0 | 1462.7 | 1456.0 | 1450.7 | 1432.0 |
| 20° | 1532.0 | 1510.7 | 1484.0 | 1466.7 | 1445.3 | 1428.0 | 1422.7 | 1413.3 | 1408.0 | 1388.0 | 1364.0 |
| 22.5° | 1469.3 | 1438.7 | 1405.3 | 1380.0 | 1356.0 | 1338.7 | 1325.3 | 1316.0 | 1302.7 | 1290.7 | 1253.3 |
| 25° | 1390.7 | 1356.0 | 1321.3 | 1290.7 | 1258.7 | 1232.0 | 1208.0 | 1185.3 | 1178.7 | 1153.3 | 1117.3 |
| 27.5° | 1314.7 | 1276.0 | 1241.3 | 1205.3 | 1164.0 | 1130.7 | 1089.3 | 1057.3 | 1036.0 | 1009.3 | 976.0 |
| 30° | 1233.3 | 1194.7 | 1148.0 | 1100.0 | 1052.0 | 1016.0 | 969.3 | 930.7 | 904.0 | 876.0 | 845.3 |
| 32.5° | 1130.7 | 1084.0 | 1028.0 | 974.7 | 930.7 | 888.0 | 841.3 | 804.0 | 777.3 | 752.0 | 722.7 |
| 35° | 1013.3 | 952.0 | 892.0 | 833.3 | 786.7 | 750.7 | 709.3 | 681.3 | 662.7 | 640.0 | 609.3 |
| 37.5° | 878.7 | 809.3 | 745.3 | 700.0 | 658.7 | 624.0 | 594.7 | 577.3 | 557.3 | 545.3 | 526.7 |
| 40° | 742.7 | 674.7 | 612.0 | 570.7 | 536.0 | 516.0 | 500.0 | 496.0 | 482.7 | 466.7 | 454.7 |
| 42.5° | 622.7 | 557.3 | 496.0 | 462.7 | 440.0 | 434.7 | 426.7 | 426.7 | 420.0 | 408.0 | 400.0 |
| 45° | 541.3 | 473.3 | 420.0 | 396.0 | 384.0 | 382.7 | 378.7 | 378.7 | 377.3 | 372.0 | 362.7 |
| 47.5° | 482.7 | 421.3 | 380.0 | 365.3 | 362.7 | 360.0 | 356.0 | 354.7 | 353.3 | 349.3 | 344.0 |
| 50° | 429.3 | 377.3 | 350.7 | 344.0 | 345.3 | 341.3 | 337.3 | 333.3 | 332.0 | 328.0 | 322.7 |
| 52.5° | 380.0 | 342.7 | 325.3 | 321.3 | 321.3 | 321.3 | 318.7 | 318.7 | 316.0 | 314.7 | 309.3 |
| 55° | 352.0 | 324.0 | 314.7 | 313.3 | 312.0 | 310.7 | 308.0 | 308.0 | 305.3 | 304.0 | 297.3 |
| 57.5° | 328.0 | 310.7 | 305.3 | 302.7 | 301.3 | 298.7 | 297.3 | 297.3 | 297.3 | 297.3 | 289.3 |
| 60° | 309.3 | 301.3 | 300.0 | 297.3 | 296.0 | 290.7 | 288.0 | 286.7 | 288.0 | 289.3 | 281.3 |
| 62.5° | 289.3 | 288.0 | 286.7 | 284.0 | 282.7 | 277.3 | 273.3 | 270.7 | 273.3 | 276.0 | 274.7 |
| 63° | 284.0 | 282.7 | 282.7 | 281.3 | 280.0 | 273.3 | 269.3 | 266.7 | 269.3 | 272.0 | 272.0 |
| 65° | 265.3 | 266.7 | 266.7 | 265.3 | 264.0 | 260.0 | 254.7 | 252.0 | 253.3 | 257.3 | 258.7 |
| 67.5° | 245.3 | 246.7 | 245.3 | 246.7 | 245.3 | 242.7 | 238.7 | 236.0 | 234.7 | 236.0 | 237.3 |
| 70° | 226.7 | 229.3 | 228.0 | 226.7 | 225.3 | 225.3 | 222.7 | 218.7 | 217.3 | 216.0 | 216.0 |
| 72.5° | 210.7 | 210.7 | 208.0 | 208.0 | 206.7 | 206.7 | 204.0 | 200.0 | 198.7 | 198.7 | 196.0 |
| 75° | 193.3 | 193.3 | 189.3 | 189.3 | 186.7 | 188.0 | 185.3 | 181.3 | 180.0 | 180.0 | 178.7 |
| 77.5° | 182.7 | 178.7 | 172.0 | 170.7 | 169.3 | 169.3 | 168.0 | 164.0 | 162.7 | 162.7 | 161.3 |
| 80° | 161.3 | 153.3 | 146.7 | 145.3 | 146.7 | 149.3 | 149.3 | 146.7 | 146.7 | 146.7 | 146.7 |
| 82.5° | 125.3 | 122.7 | 118.7 | 116.0 | 116.0 | 120.0 | 125.3 | 128.0 | 130.7 | 133.3 | 133.3 |
| 85° | 92.0 | 93.3 | 92.0 | 88.0 | 86.7 | 90.7 | 96.0 | 101.3 | 102.7 | 108.0 | 106.7 |
| 87.5° | 49.3 | 50.7 | 46.7 | 45.3 | 49.3 | 52.0 | 57.3 | 58.7 | 61.3 | 62.7 | 64.0 |
| 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: P152800

CATALOG NUMBER: VWM-E04-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 |
| 2.5° | 1417.3 | 1416.0 | 1417.3 | 1414.7 | 1414.7 | 1412.0 | 1409.3 | 1408.0 | 1405.3 | 1404.0 | 1401.3 |
| 5° | 1441.3 | 1437.3 | 1433.3 | 1432.0 | 1426.7 | 1421.3 | 1417.3 | 1410.7 | 1405.3 | 1396.0 | 1393.3 |
| 7.5° | 1457.3 | 1448.0 | 1442.7 | 1441.3 | 1433.3 | 1429.3 | 1420.0 | 1412.0 | 1404.0 | 1392.0 | 1388.0 |
| 10° | 1464.0 | 1454.7 | 1445.3 | 1441.3 | 1432.0 | 1425.3 | 1416.0 | 1404.0 | 1397.3 | 1385.3 | 1382.7 |
| 12.5° | 1472.0 | 1454.7 | 1440.0 | 1429.3 | 1416.0 | 1401.3 | 1392.0 | 1385.3 | 1376.0 | 1369.3 | 1366.7 |
| 15° | 1457.3 | 1434.7 | 1412.0 | 1392.0 | 1370.7 | 1354.7 | 1345.3 | 1334.7 | 1324.0 | 1320.0 | 1320.0 |
| 17.5° | 1417.3 | 1388.0 | 1349.3 | 1324.0 | 1301.3 | 1284.0 | 1272.0 | 1261.3 | 1260.0 | 1254.7 | 1257.3 |
| 20° | 1334.7 | 1296.0 | 1258.7 | 1240.0 | 1226.7 | 1216.0 | 1204.0 | 1198.7 | 1194.7 | 1186.7 | 1184.0 |
| 22.5° | 1220.0 | 1188.0 | 1161.3 | 1148.0 | 1137.3 | 1124.0 | 1113.3 | 1097.3 | 1093.3 | 1085.3 | 1081.3 |
| 25° | 1093.3 | 1068.0 | 1045.3 | 1036.0 | 1029.3 | 1010.7 | 1004.0 | 982.7 | 968.0 | 958.7 | 964.0 |
| 27.5° | 966.7 | 948.0 | 926.7 | 914.7 | 910.7 | 893.3 | 886.7 | 862.7 | 850.7 | 850.7 | 837.3 |
| 30° | 836.0 | 818.7 | 805.3 | 792.0 | 789.3 | 768.0 | 750.7 | 741.3 | 728.0 | 722.7 | 713.3 |
| 32.5° | 713.3 | 696.0 | 685.3 | 678.7 | 668.0 | 650.7 | 633.3 | 617.3 | 596.0 | 588.0 | 584.0 |
| 35° | 600.0 | 586.7 | 573.3 | 568.0 | 553.3 | 534.7 | 513.3 | 500.0 | 474.7 | 465.3 | 461.3 |
| 37.5° | 513.3 | 497.3 | 488.0 | 473.3 | 458.7 | 438.7 | 422.7 | 410.7 | 401.3 | 397.3 | 397.3 |
| 40° | 444.0 | 432.0 | 421.3 | 409.3 | 397.3 | 386.7 | 378.7 | 376.0 | 374.7 | 374.7 | 377.3 |
| 42.5° | 392.0 | 381.3 | 376.0 | 369.3 | 365.3 | 365.3 | 364.0 | 365.3 | 366.7 | 368.0 | 372.0 |
| 45° | 357.3 | 350.7 | 348.0 | 346.7 | 349.3 | 352.0 | 353.3 | 356.0 | 361.3 | 364.0 | 365.3 |
| 47.5° | 338.7 | 333.3 | 332.0 | 333.3 | 337.3 | 342.7 | 348.0 | 352.0 | 356.0 | 357.3 | 358.7 |
| 50° | 320.0 | 313.3 | 310.7 | 313.3 | 318.7 | 326.7 | 330.7 | 337.3 | 340.0 | 342.7 | 340.0 |
| 52.5° | 304.0 | 298.7 | 297.3 | 297.3 | 302.7 | 308.0 | 313.3 | 318.7 | 320.0 | 320.0 | 318.7 |
| 55° | 290.7 | 286.7 | 282.7 | 285.3 | 289.3 | 294.7 | 302.7 | 306.7 | 309.3 | 310.7 | 310.7 |
| 57.5° | 280.0 | 276.0 | 272.0 | 274.7 | 278.7 | 284.0 | 292.0 | 296.0 | 298.7 | 302.7 | 304.0 |
| 60° | 272.0 | 266.7 | 262.7 | 266.7 | 270.7 | 278.7 | 285.3 | 289.3 | 296.0 | 297.3 | 297.3 |
| 62.5° | 264.0 | 258.7 | 252.0 | 256.0 | 256.0 | 260.0 | 266.7 | 272.0 | 278.7 | 281.3 | 281.3 |
| 63° | 262.7 | 257.3 | 250.7 | 253.3 | 253.3 | 256.0 | 261.3 | 266.7 | 274.7 | 277.3 | 276.0 |
| 65° | 252.0 | 250.7 | 244.0 | 244.0 | 241.3 | 244.0 | 248.0 | 253.3 | 257.3 | 261.3 | 261.3 |
| 67.5° | 234.7 | 233.3 | 232.0 | 232.0 | 232.0 | 234.7 | 237.3 | 241.3 | 245.3 | 248.0 | 246.7 |
| 70° | 214.7 | 214.7 | 214.7 | 216.0 | 216.0 | 218.7 | 220.0 | 218.7 | 222.7 | 225.3 | 224.0 |
| 72.5° | 197.3 | 196.0 | 194.7 | 197.3 | 196.0 | 196.0 | 198.7 | 197.3 | 201.3 | 201.3 | 202.7 |
| 75° | 178.7 | 177.3 | 177.3 | 178.7 | 176.0 | 173.3 | 174.7 | 174.7 | 176.0 | 176.0 | 178.7 |
| 77.5° | 162.7 | 162.7 | 162.7 | 161.3 | 158.7 | 157.3 | 156.0 | 156.0 | 156.0 | 156.0 | 157.3 |
| 80° | 148.0 | 148.0 | 148.0 | 146.7 | 144.0 | 141.3 | 138.7 | 137.3 | 136.0 | 129.3 | 129.3 |
| 82.5° | 133.3 | 133.3 | 133.3 | 133.3 | 132.0 | 129.3 | 125.3 | 114.7 | 109.3 | 104.0 | 105.3 |
| 85° | 105.3 | 108.0 | 110.7 | 114.7 | 113.3 | 113.3 | 105.3 | 92.0 | 84.0 | 78.7 | 80.0 |
| 87.5° | 68.0 | 60.0 | 60.0 | 58.7 | 56.0 | 53.3 | 53.3 | 45.3 | 37.3 | 33.3 | 34.7 |
| 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: P152800
 CATALOG NUMBER: VWM-E04-LED-E1-SLL

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 0° |
| 2.5° | 1401.3 | 1398.7 | 1396.0 | 1396.0 | 1392.0 | 1392.0 | 1389.3 | 1394.7 | 1389.3 | 1385.3 | 1385.3 | 2.5° |
| 5° | 1390.7 | 1388.0 | 1380.0 | 1378.7 | 1373.3 | 1373.3 | 1373.3 | 1370.7 | 1370.7 | 1368.0 | 1366.7 | 5° |
| 7.5° | 1384.0 | 1377.3 | 1370.7 | 1366.7 | 1366.7 | 1364.0 | 1369.3 | 1366.7 | 1368.0 | 1368.0 | 1369.3 | 7.5° |
| 10° | 1378.7 | 1373.3 | 1370.7 | 1369.3 | 1369.3 | 1373.3 | 1377.3 | 1378.7 | 1377.3 | 1378.7 | 1378.7 | 10° |
| 12.5° | 1365.3 | 1368.0 | 1369.3 | 1374.7 | 1381.3 | 1389.3 | 1398.7 | 1400.0 | 1402.7 | 1402.7 | 1405.3 | 12.5° |
| 15° | 1322.7 | 1329.3 | 1337.3 | 1350.7 | 1368.0 | 1385.3 | 1402.7 | 1417.3 | 1430.7 | 1437.3 | 1442.7 | 15° |
| 17.5° | 1262.7 | 1269.3 | 1284.0 | 1298.7 | 1321.3 | 1346.7 | 1376.0 | 1401.3 | 1429.3 | 1454.7 | 1480.0 | 17.5° |
| 20° | 1181.3 | 1192.0 | 1196.0 | 1222.7 | 1249.3 | 1284.0 | 1318.7 | 1358.7 | 1406.7 | 1454.7 | 1504.0 | 20° |
| 22.5° | 1076.0 | 1088.0 | 1106.7 | 1128.0 | 1156.0 | 1198.7 | 1240.0 | 1302.7 | 1366.7 | 1434.7 | 1512.0 | 22.5° |
| 25° | 958.7 | 972.0 | 988.0 | 1010.7 | 1038.7 | 1084.0 | 1144.0 | 1210.7 | 1289.3 | 1378.7 | 1474.7 | 25° |
| 27.5° | 837.3 | 850.7 | 864.0 | 880.0 | 912.0 | 960.0 | 1030.7 | 1100.0 | 1186.7 | 1284.0 | 1396.0 | 27.5° |
| 30° | 716.0 | 717.3 | 725.3 | 745.3 | 778.7 | 841.3 | 893.3 | 980.0 | 1070.7 | 1173.3 | 1302.7 | 30° |
| 32.5° | 582.7 | 581.3 | 590.7 | 608.0 | 640.0 | 700.0 | 764.0 | 848.0 | 937.3 | 1066.7 | 1200.0 | 32.5° |
| 35° | 464.0 | 464.0 | 481.3 | 498.7 | 534.7 | 577.3 | 633.3 | 708.0 | 813.3 | 933.3 | 1066.7 | 35° |
| 37.5° | 401.3 | 410.7 | 421.3 | 438.7 | 466.7 | 500.0 | 549.3 | 614.7 | 697.3 | 812.0 | 934.7 | 37.5° |
| 40° | 381.3 | 386.7 | 396.0 | 412.0 | 436.0 | 466.7 | 502.7 | 552.0 | 616.0 | 708.0 | 820.0 | 40° |
| 42.5° | 373.3 | 374.7 | 380.0 | 392.0 | 413.3 | 444.0 | 481.3 | 525.3 | 573.3 | 638.7 | 736.0 | 42.5° |
| 45° | 365.3 | 364.0 | 366.7 | 376.0 | 393.3 | 428.0 | 470.7 | 518.7 | 566.7 | 621.3 | 701.3 | 45° |
| 47.5° | 358.7 | 358.7 | 358.7 | 362.7 | 378.7 | 413.3 | 462.7 | 518.7 | 576.0 | 637.3 | 716.0 | 47.5° |
| 50° | 340.0 | 338.7 | 338.7 | 341.3 | 353.3 | 390.7 | 449.3 | 517.3 | 592.0 | 672.0 | 761.3 | 50° |
| 52.5° | 318.7 | 318.7 | 320.0 | 321.3 | 332.0 | 369.3 | 434.7 | 517.3 | 610.7 | 717.3 | 829.3 | 52.5° |
| 55° | 312.0 | 313.3 | 314.7 | 313.3 | 321.3 | 353.3 | 418.7 | 509.3 | 618.7 | 753.3 | 902.7 | 55° |
| 57.5° | 306.7 | 309.3 | 309.3 | 308.0 | 313.3 | 340.0 | 402.7 | 493.3 | 612.0 | 766.7 | 954.7 | 57.5° |
| 60° | 298.7 | 298.7 | 298.7 | 294.7 | 297.3 | 321.3 | 378.7 | 468.0 | 590.7 | 754.7 | 962.7 | 60° |
| 62.5° | 281.3 | 281.3 | 278.7 | 277.3 | 276.0 | 294.7 | 346.7 | 430.7 | 552.0 | 722.7 | 942.7 | 62.5° |
| 63° | 277.3 | 276.0 | 276.0 | 272.0 | 272.0 | 289.3 | 340.0 | 425.3 | 541.3 | 714.7 | 934.7 | 63° |
| 65° | 262.7 | 262.7 | 262.7 | 260.0 | 258.7 | 272.0 | 313.3 | 388.0 | 500.0 | 677.3 | 894.7 | 65° |
| 67.5° | 246.7 | 248.0 | 245.3 | 244.0 | 242.7 | 250.7 | 282.7 | 341.3 | 436.0 | 598.7 | 820.0 | 67.5° |
| 70° | 224.0 | 225.3 | 225.3 | 224.0 | 222.7 | 228.0 | 248.0 | 293.3 | 361.3 | 498.7 | 698.7 | 70° |
| 72.5° | 204.0 | 206.7 | 206.7 | 209.3 | 209.3 | 213.3 | 221.3 | 244.0 | 289.3 | 389.3 | 549.3 | 72.5° |
| 75° | 182.7 | 184.0 | 186.7 | 189.3 | 186.7 | 185.3 | 186.7 | 204.0 | 226.7 | 288.0 | 392.0 | 75° |
| 77.5° | 164.0 | 168.0 | 168.0 | 166.7 | 162.7 | 160.0 | 160.0 | 168.0 | 186.7 | 218.7 | 280.0 | 77.5° |
| 80° | 136.0 | 142.7 | 144.0 | 140.0 | 136.0 | 136.0 | 138.7 | 144.0 | 156.0 | 180.0 | 212.0 | 80° |
| 82.5° | 109.3 | 116.0 | 117.3 | 118.7 | 117.3 | 121.3 | 121.3 | 122.7 | 129.3 | 148.0 | 173.3 | 82.5° |
| 85° | 84.0 | 89.3 | 93.3 | 94.7 | 96.0 | 97.3 | 96.0 | 89.3 | 93.3 | 105.3 | 117.3 | 85° |
| 87.5° | 37.3 | 38.7 | 36.0 | 37.3 | 36.0 | 37.3 | 38.7 | 32.0 | 30.7 | 41.3 | 42.7 | 87.5° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90° |



NUMBER: P152800

NUMBER: VWM-E04-LED-E1-SLL

DISTRIBUTION (continued):

| 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1398.7 |
| 1384.0 | 1384.0 | 1385.3 | 1382.7 | 1382.7 | 1384.0 | 1380.0 |
| 1362.7 | 1368.0 | 1368.0 | 1368.0 | 1365.3 | 1368.0 | 1369.3 |
| 1368.0 | 1372.0 | 1374.7 | 1374.7 | 1373.3 | 1378.7 | 1382.7 |
| 1374.7 | 1381.3 | 1384.0 | 1384.0 | 1384.0 | 1390.7 | 1400.0 |
| 1400.0 | 1405.3 | 1409.3 | 1409.3 | 1412.0 | 1420.0 | 1430.7 |
| 1446.7 | 1453.3 | 1453.3 | 1452.0 | 1460.0 | 1469.3 | 1481.3 |
| 1498.7 | 1517.3 | 1526.7 | 1525.3 | 1532.0 | 1544.0 | 1557.3 |
| 1548.0 | 1600.0 | 1622.7 | 1638.7 | 1645.3 | 1661.3 | 1665.3 |
| 1589.3 | 1676.0 | 1738.7 | 1792.0 | 1817.3 | 1833.3 | 1852.0 |
| 1574.7 | 1692.0 | 1804.0 | 1913.3 | 1990.7 | 2069.3 | 2102.7 |
| 1514.7 | 1661.3 | 1808.0 | 1968.0 | 2108.0 | 2248.0 | 2349.3 |
| 1441.3 | 1617.3 | 1814.7 | 2041.3 | 2262.7 | 2477.3 | 2648.0 |
| 1357.3 | 1576.0 | 1829.3 | 2109.3 | 2400.0 | 2681.3 | 2928.0 |
| 1252.0 | 1497.3 | 1793.3 | 2116.0 | 2458.7 | 2800.0 | 3120.0 |
| 1118.7 | 1390.7 | 1709.3 | 2068.0 | 2461.3 | 2852.0 | 3234.7 |
| 985.3 | 1256.0 | 1602.7 | 1998.7 | 2426.7 | 2864.0 | 3306.7 |
| 892.0 | 1136.0 | 1494.7 | 1910.7 | 2370.7 | 2845.3 | 3341.3 |
| 828.0 | 1049.3 | 1398.7 | 1830.7 | 2310.7 | 2812.0 | 3346.7 |
| 822.7 | 1012.0 | 1336.0 | 1772.0 | 2262.7 | 2782.7 | 3346.7 |
| 868.0 | 1032.0 | 1314.7 | 1742.7 | 2242.7 | 2773.3 | 3349.3 |
| 953.3 | 1112.0 | 1353.3 | 1765.3 | 2258.7 | 2785.3 | 3361.3 |
| 1056.0 | 1233.3 | 1457.3 | 1844.0 | 2326.7 | 2825.3 | 3388.0 |
| 1149.3 | 1373.3 | 1634.7 | 1996.0 | 2450.7 | 2926.7 | 3462.7 |
| 1204.0 | 1493.3 | 1822.7 | 2209.3 | 2662.7 | 3128.0 | 3612.0 |
| 1210.7 | 1560.0 | 1989.3 | 2441.3 | 2920.0 | 3358.7 | 3850.7 |
| 1205.3 | 1565.3 | 2010.7 | 2485.3 | 2974.7 | 3416.0 | 3933.3 |
| 1176.0 | 1566.7 | 2070.7 | 2640.0 | 3164.0 | 3657.3 | 4164.0 |
| 1101.3 | 1524.0 | 2092.0 | 2761.3 | 3402.7 | 3974.7 | 4594.7 |
| 972.0 | 1402.7 | 2029.3 | 2764.0 | 3494.7 | 4152.0 | 4866.7 |
| 781.3 | 1172.0 | 1758.7 | 2514.7 | 3252.0 | 3977.3 | 4796.0 |
| 572.0 | 861.3 | 1329.3 | 1948.0 | 2653.3 | 3310.7 | 4108.0 |
| 380.0 | 557.3 | 896.0 | 1388.0 | 1902.7 | 2382.7 | 2957.3 |
| 261.3 | 345.3 | 524.0 | 834.7 | 1164.0 | 1397.3 | 1884.0 |
| 192.0 | 228.0 | 290.7 | 426.7 | 560.0 | 689.3 | 984.0 |
| 120.0 | 130.7 | 145.3 | 210.7 | 301.3 | 406.7 | 613.3 |
| 32.0 | 33.3 | 30.7 | 41.3 | 65.3 | 62.7 | 69.3 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)