

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: P150488

Luminaire Tested: **VWM-E01-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150488
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E01-LED-E1-SL3-HSS-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1463.3 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

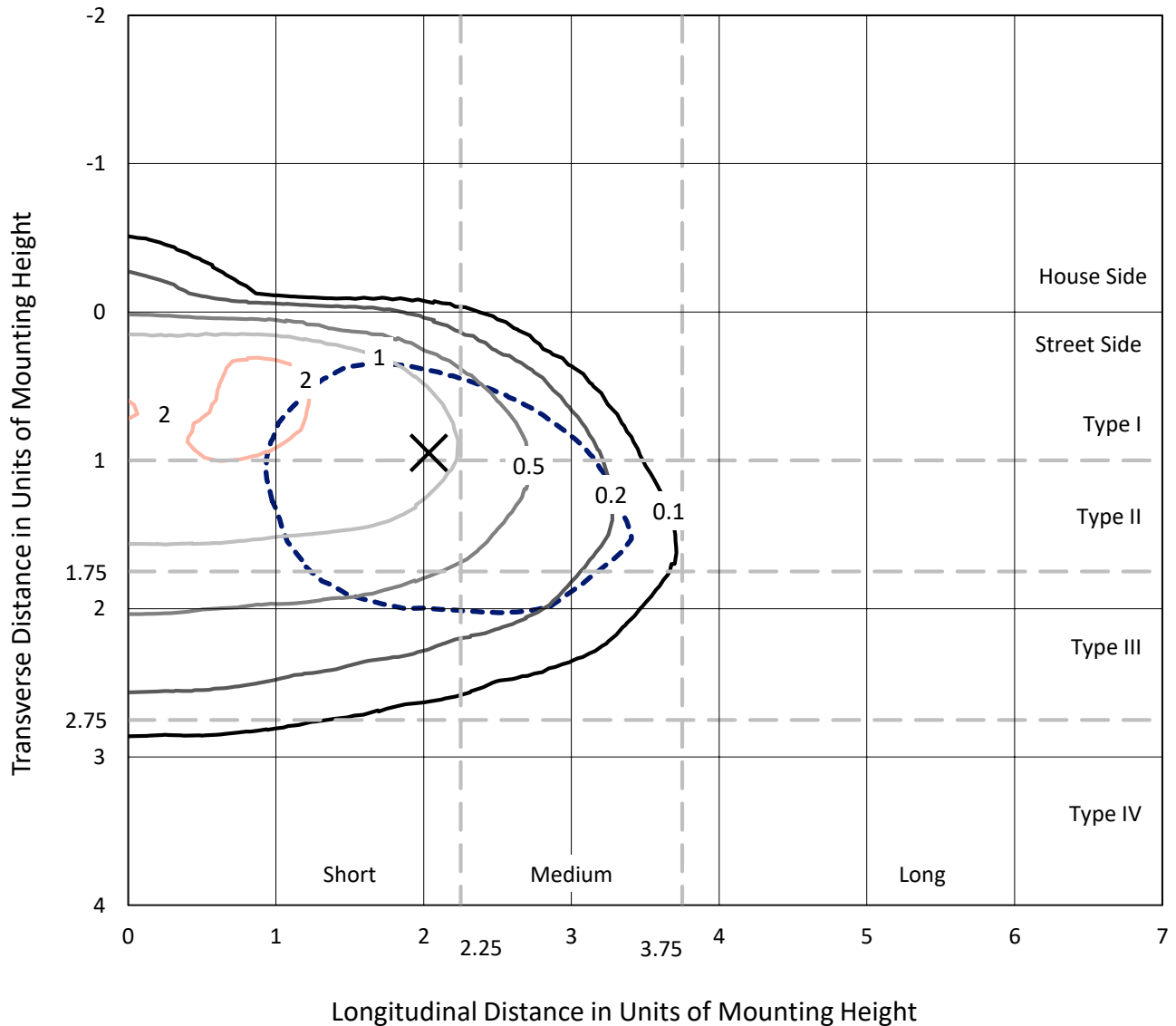
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P150488
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Iso-Footcandle Lines of Horizontal Illumination

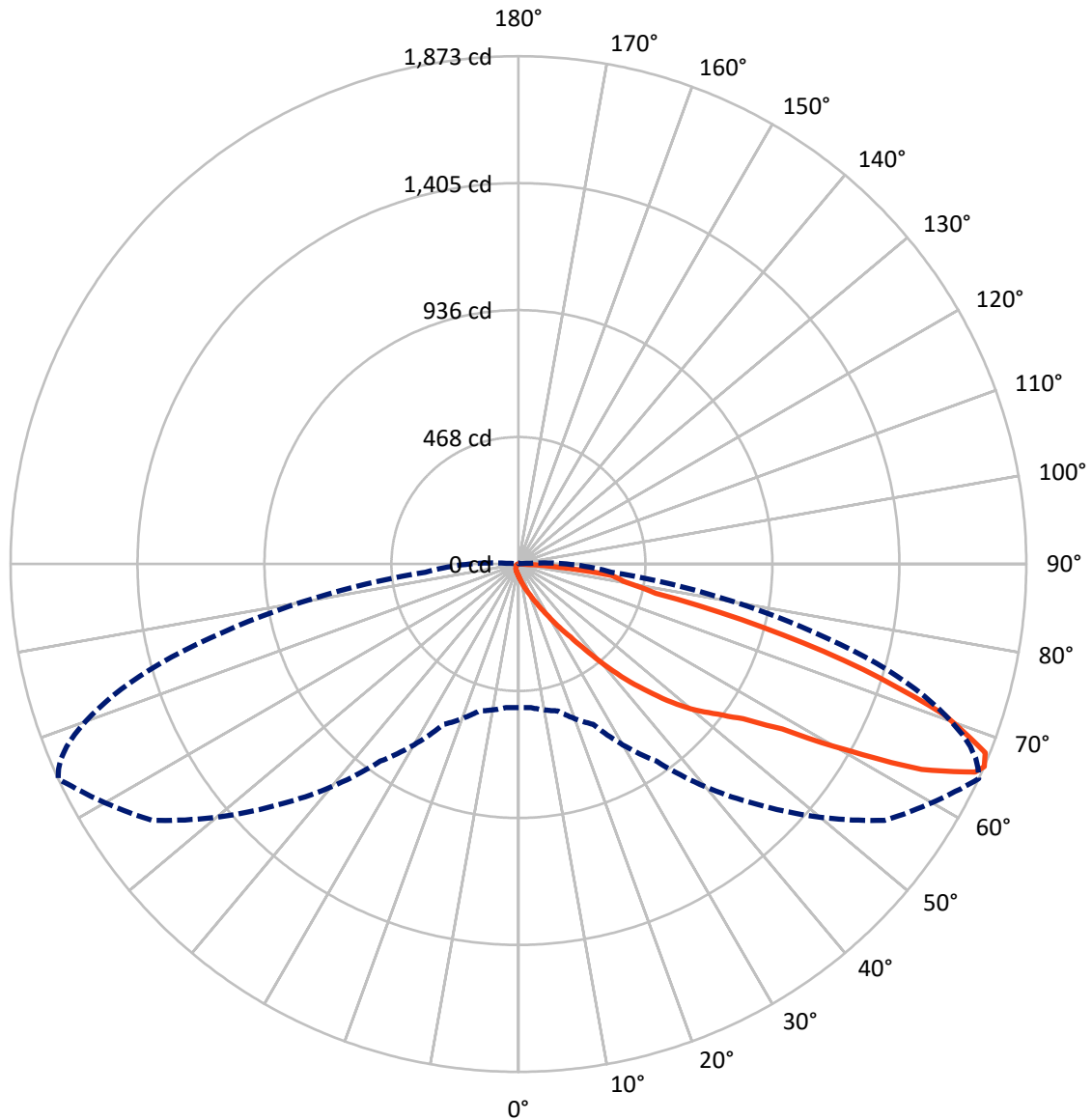
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 31.7 | 0.0 | 31.7 |
| | % Fixture | 2.2 | 0.0 | 2.2 |
| Street Side | Lumens | 1431.6 | 0.0 | 1431.6 |
| | % Fixture | 97.8 | 0.0 | 97.8 |
| Total | Lumens | 1463.3 | 0.0 | 1463.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.9 | 0.3 |
| 10°-20° | 21.0 | 1.4 |
| 20°-30° | 45.2 | 3.1 |
| 30°-40° | 96.6 | 6.6 |
| 40°-50° | 213.6 | 14.6 |
| 50°-60° | 361.9 | 24.7 |
| 60°-70° | 482.9 | 33.0 |
| 70°-80° | 212.7 | 14.5 |
| 80°-90° | 24.5 | 1.7 |
| 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° | 1463.3 | 100.0 |
| 0°-180° | 1463.3 | 100.0 |



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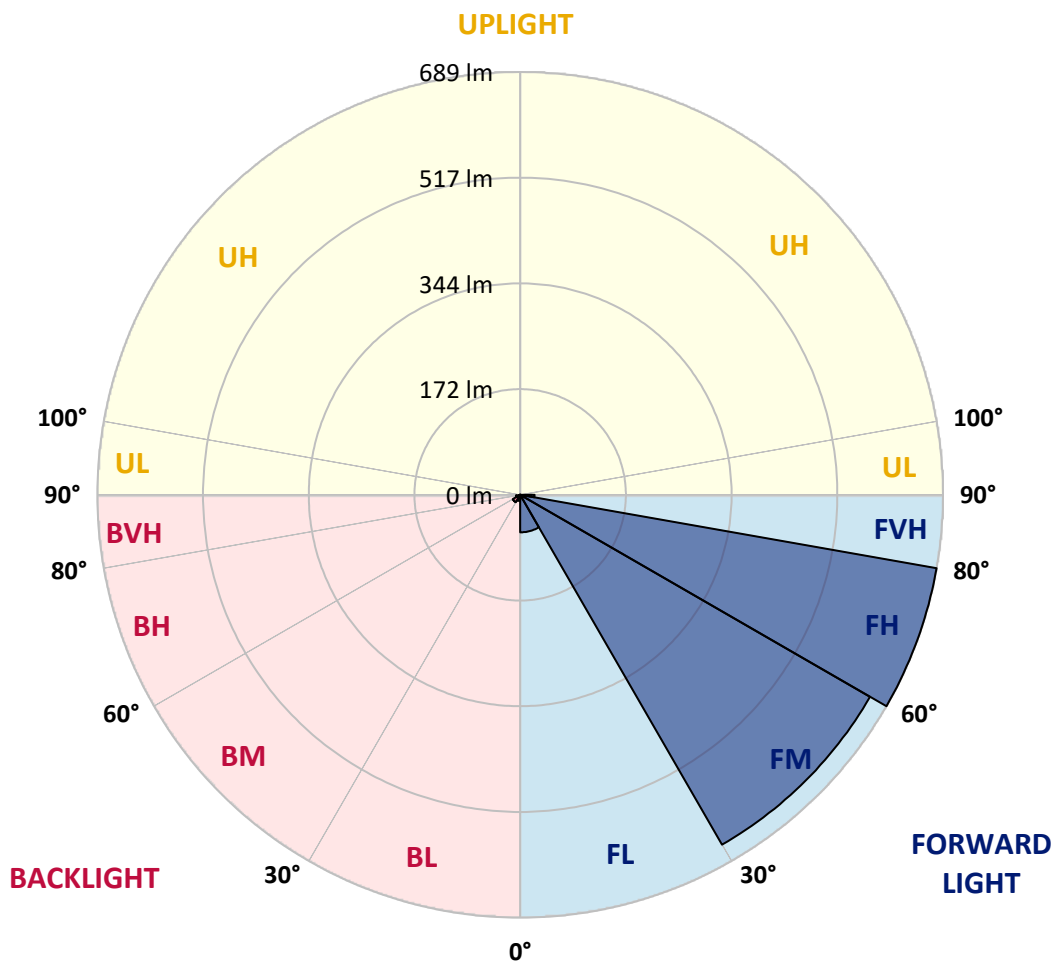
CATALOG NUMBER: VWM-E01-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 61.1 | 4.2 | | | |
| FM | (30°-60°) | 658.1 | 45.0 | | | |
| FH | (60°-80°) | 688.9 | 47.1 | | | G1/1800 |
| FVH | (80°-90°) | 23.5 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 10.0 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 13.9 | 1.0 | B0/220 | | |
| BH | (60°-80°) | 6.8 | 0.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.0 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Short





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 CATALOG NUMBER: VWM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 |
| 2.5° | 55.7 | 55.4 | 54.3 | 54.3 | 52.6 | 51.5 | 50.1 | 48.7 | 48.7 | 48.4 | 48.1 |
| 5° | 73.7 | 72.0 | 71.7 | 68.6 | 66.1 | 62.5 | 59.1 | 54.6 | 54.0 | 53.5 | 53.2 |
| 7.5° | 93.7 | 93.4 | 90.9 | 87.2 | 82.1 | 75.4 | 68.6 | 61.3 | 60.2 | 59.6 | 58.5 |
| 10° | 119.6 | 118.2 | 114.8 | 108.6 | 101.0 | 92.0 | 81.0 | 69.5 | 68.1 | 67.0 | 66.4 |
| 12.5° | 144.3 | 141.8 | 139.8 | 131.9 | 122.4 | 109.2 | 95.9 | 79.3 | 78.2 | 76.8 | 74.6 |
| 15° | 167.4 | 165.1 | 161.8 | 155.0 | 144.3 | 127.7 | 112.3 | 92.0 | 89.2 | 87.2 | 85.5 |
| 17.5° | 185.4 | 184.0 | 180.1 | 172.5 | 160.9 | 146.3 | 127.7 | 104.9 | 102.7 | 100.2 | 97.1 |
| 20° | 202.6 | 200.6 | 194.4 | 184.0 | 171.6 | 160.4 | 146.0 | 121.8 | 118.7 | 115.6 | 112.3 |
| 22.5° | 218.9 | 216.9 | 206.8 | 189.6 | 176.4 | 171.6 | 166.5 | 140.9 | 136.2 | 133.6 | 130.3 |
| 25° | 241.7 | 237.4 | 221.7 | 194.4 | 176.7 | 180.3 | 189.1 | 165.7 | 161.2 | 157.5 | 152.2 |
| 27.5° | 272.3 | 266.7 | 241.9 | 201.4 | 177.8 | 189.9 | 214.9 | 195.8 | 191.0 | 186.8 | 180.9 |
| 30° | 306.9 | 303.3 | 273.7 | 218.3 | 186.0 | 204.0 | 243.9 | 234.1 | 228.4 | 223.4 | 216.3 |
| 32.5° | 341.8 | 336.8 | 307.5 | 250.4 | 207.9 | 231.3 | 280.2 | 278.5 | 271.2 | 266.4 | 258.8 |
| 35° | 372.5 | 369.9 | 348.3 | 303.0 | 258.0 | 279.1 | 328.6 | 330.6 | 324.1 | 319.0 | 310.6 |
| 37.5° | 393.3 | 393.3 | 389.1 | 359.5 | 337.6 | 353.4 | 399.8 | 400.1 | 393.6 | 382.0 | 377.8 |
| 40° | 404.0 | 407.1 | 422.3 | 427.9 | 426.8 | 447.0 | 493.2 | 488.1 | 482.8 | 476.9 | 462.8 |
| 42.5° | 425.9 | 428.7 | 461.1 | 499.9 | 525.2 | 552.0 | 583.8 | 582.1 | 575.6 | 564.9 | 552.0 |
| 45° | 463.1 | 466.7 | 505.3 | 566.9 | 618.9 | 656.9 | 677.2 | 669.3 | 662.8 | 652.7 | 645.9 |
| 47.5° | 510.3 | 517.4 | 561.0 | 637.2 | 699.9 | 762.7 | 783.8 | 763.0 | 757.3 | 749.5 | 738.5 |
| 50° | 560.7 | 567.4 | 613.9 | 701.1 | 772.0 | 846.8 | 882.0 | 846.8 | 838.6 | 836.1 | 823.7 |
| 52.5° | 604.3 | 609.9 | 654.7 | 750.3 | 827.1 | 914.9 | 966.1 | 919.7 | 913.8 | 905.3 | 896.3 |
| 55° | 630.2 | 634.7 | 676.6 | 773.9 | 864.5 | 976.2 | 1047.4 | 1006.6 | 997.9 | 994.5 | 981.6 |
| 57.5° | 638.9 | 643.4 | 681.1 | 777.0 | 884.8 | 1032.2 | 1146.1 | 1147.5 | 1137.1 | 1125.0 | 1121.1 |
| 60° | 638.9 | 644.0 | 675.8 | 769.4 | 904.5 | 1091.8 | 1277.8 | 1395.1 | 1372.6 | 1370.4 | 1356.0 |
| 62.5° | 612.5 | 617.2 | 649.3 | 746.1 | 930.9 | 1172.3 | 1461.2 | 1668.3 | 1661.8 | 1647.2 | 1623.6 |
| 65° | 555.1 | 557.9 | 589.4 | 686.4 | 920.8 | 1246.3 | 1620.2 | 1850.0 | 1839.6 | 1810.9 | 1780.5 |
| 66° | 529.2 | 531.4 | 561.0 | 652.4 | 887.6 | 1256.4 | 1648.3 | 1872.8 | 1855.7 | 1831.5 | 1797.1 |
| 67.5° | 491.8 | 495.7 | 516.5 | 589.1 | 808.0 | 1221.3 | 1630.6 | 1856.8 | 1841.9 | 1812.6 | 1778.3 |
| 70° | 328.3 | 325.5 | 398.9 | 452.1 | 615.6 | 995.1 | 1462.9 | 1667.2 | 1667.4 | 1653.7 | 1639.9 |
| 72.5° | 155.9 | 157.5 | 178.9 | 278.2 | 402.9 | 664.8 | 1164.4 | 1330.7 | 1349.8 | 1325.1 | 1307.9 |
| 75° | 112.0 | 114.5 | 127.4 | 170.2 | 240.3 | 398.9 | 754.8 | 930.6 | 931.2 | 887.3 | 848.2 |
| 77.5° | 32.6 | 34.0 | 47.8 | 104.9 | 180.1 | 269.2 | 433.5 | 517.4 | 505.3 | 473.8 | 444.2 |
| 80° | 13.5 | 13.5 | 14.1 | 33.5 | 72.3 | 182.9 | 303.3 | 398.4 | 397.0 | 384.9 | 367.4 |
| 82.5° | 5.1 | 5.3 | 6.8 | 13.8 | 17.2 | 45.0 | 202.3 | 345.8 | 344.9 | 327.7 | 315.4 |
| 85° | 0.6 | 0.6 | 1.7 | 5.9 | 6.5 | 8.4 | 40.5 | 152.5 | 151.6 | 152.5 | 133.6 |
| 87.5° | 0.0 | 0.0 | 0.3 | 0.6 | 0.8 | 1.1 | 1.7 | 5.9 | 6.5 | 6.2 | 5.6 |
| 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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CATALOG NUMBER: VWM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 |
| 2.5° | 48.1 | 47.5 | 47.5 | 47.3 | 47.3 | 47.3 | 47.0 | 46.7 | 46.7 | 46.4 | 46.1 |
| 5° | 52.6 | 52.0 | 51.8 | 51.2 | 50.9 | 50.6 | 50.1 | 49.8 | 49.2 | 49.0 | 48.7 |
| 7.5° | 58.0 | 56.8 | 56.5 | 55.7 | 54.9 | 54.3 | 53.7 | 52.9 | 52.3 | 51.2 | 50.9 |
| 10° | 64.7 | 63.3 | 62.2 | 61.0 | 60.2 | 58.8 | 58.0 | 56.8 | 55.7 | 54.9 | 54.0 |
| 12.5° | 73.4 | 71.5 | 69.8 | 68.6 | 66.7 | 65.0 | 63.3 | 62.5 | 60.2 | 59.1 | 57.7 |
| 15° | 83.0 | 80.7 | 78.8 | 76.5 | 75.1 | 72.3 | 70.1 | 67.5 | 66.4 | 64.4 | 62.2 |
| 17.5° | 95.4 | 91.7 | 88.6 | 86.4 | 83.6 | 80.7 | 78.2 | 75.7 | 72.3 | 70.1 | 67.2 |
| 20° | 108.6 | 105.5 | 101.3 | 97.3 | 94.0 | 90.6 | 86.9 | 83.6 | 80.5 | 76.8 | 73.4 |
| 22.5° | 125.5 | 121.0 | 115.9 | 112.0 | 107.5 | 103.8 | 98.7 | 94.2 | 89.2 | 84.4 | 80.5 |
| 25° | 146.9 | 140.9 | 136.2 | 130.5 | 125.2 | 119.6 | 113.4 | 107.7 | 101.3 | 96.8 | 90.0 |
| 27.5° | 173.3 | 167.7 | 161.2 | 153.9 | 148.5 | 140.1 | 131.9 | 124.9 | 117.3 | 110.3 | 102.7 |
| 30° | 207.1 | 198.9 | 192.1 | 185.1 | 174.4 | 166.3 | 156.7 | 147.1 | 136.7 | 129.7 | 118.2 |
| 32.5° | 247.6 | 238.8 | 228.7 | 218.6 | 208.7 | 197.2 | 185.4 | 173.6 | 162.0 | 149.1 | 137.3 |
| 35° | 297.1 | 286.7 | 275.1 | 264.2 | 249.0 | 236.6 | 221.7 | 205.4 | 192.4 | 177.5 | 162.6 |
| 37.5° | 362.6 | 345.5 | 335.3 | 323.8 | 303.3 | 286.4 | 269.8 | 253.5 | 230.7 | 214.9 | 193.8 |
| 40° | 444.8 | 434.7 | 418.1 | 399.5 | 380.9 | 358.7 | 336.2 | 314.5 | 288.1 | 266.1 | 241.7 |
| 42.5° | 541.3 | 526.4 | 509.5 | 482.8 | 463.9 | 437.7 | 412.1 | 383.5 | 351.1 | 323.0 | 294.3 |
| 45° | 631.9 | 614.1 | 601.2 | 574.5 | 554.8 | 523.8 | 492.9 | 462.5 | 425.1 | 388.8 | 355.6 |
| 47.5° | 729.8 | 715.1 | 693.8 | 672.1 | 652.1 | 617.2 | 583.8 | 546.9 | 507.5 | 464.5 | 421.4 |
| 50° | 815.9 | 804.3 | 789.7 | 763.5 | 741.3 | 712.0 | 672.7 | 632.4 | 582.6 | 539.9 | 490.9 |
| 52.5° | 889.0 | 880.0 | 859.5 | 840.9 | 820.9 | 793.4 | 758.2 | 719.6 | 665.9 | 618.9 | 563.2 |
| 55° | 975.4 | 968.9 | 950.9 | 939.4 | 921.6 | 895.2 | 862.3 | 826.5 | 769.7 | 718.5 | 655.5 |
| 57.5° | 1116.9 | 1111.8 | 1096.1 | 1091.3 | 1073.8 | 1050.8 | 1010.3 | 972.0 | 905.6 | 842.0 | 770.0 |
| 60° | 1351.2 | 1341.1 | 1318.0 | 1306.2 | 1269.4 | 1238.4 | 1185.8 | 1133.2 | 1053.0 | 972.0 | 885.3 |
| 62.5° | 1602.2 | 1573.8 | 1529.9 | 1492.2 | 1439.8 | 1386.1 | 1315.8 | 1235.3 | 1141.4 | 1045.1 | 945.6 |
| 65° | 1737.5 | 1689.1 | 1633.7 | 1573.8 | 1506.0 | 1426.9 | 1338.3 | 1241.8 | 1140.8 | 1039.2 | 934.0 |
| 66° | 1753.0 | 1698.4 | 1639.6 | 1572.9 | 1497.5 | 1413.4 | 1323.4 | 1222.1 | 1117.2 | 1018.1 | 912.9 |
| 67.5° | 1733.6 | 1676.4 | 1614.3 | 1540.3 | 1458.7 | 1371.5 | 1277.0 | 1171.7 | 1070.7 | 970.3 | 867.9 |
| 70° | 1597.7 | 1540.8 | 1485.4 | 1407.5 | 1320.6 | 1232.8 | 1143.3 | 1025.7 | 930.1 | 837.8 | 746.7 |
| 72.5° | 1275.8 | 1237.3 | 1182.4 | 1115.8 | 1031.1 | 928.1 | 853.6 | 748.3 | 665.3 | 575.9 | 505.3 |
| 75° | 797.3 | 743.0 | 675.2 | 590.2 | 525.5 | 442.0 | 398.4 | 318.5 | 271.2 | 229.8 | 189.9 |
| 77.5° | 407.6 | 366.9 | 319.3 | 271.5 | 225.6 | 180.1 | 139.3 | 98.5 | 66.4 | 46.1 | 34.3 |
| 80° | 336.8 | 300.7 | 261.4 | 217.7 | 177.2 | 137.6 | 99.0 | 67.5 | 43.0 | 28.1 | 21.9 |
| 82.5° | 278.2 | 247.9 | 212.7 | 172.2 | 137.0 | 108.0 | 75.1 | 49.0 | 30.4 | 19.7 | 15.5 |
| 85° | 118.4 | 107.5 | 83.0 | 65.8 | 49.5 | 36.6 | 25.6 | 17.2 | 12.1 | 9.8 | 9.0 |
| 87.5° | 5.1 | 5.6 | 5.3 | 4.2 | 3.1 | 3.1 | 2.8 | 2.3 | 2.3 | 2.3 | 2.3 |
| 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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CATALOG NUMBER: VWM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 95° | 105° | 115° | 125° | 135° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 0° | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 |
| 2.5° | 46.1 | 45.9 | 45.6 | 45.6 | 45.3 | 45.0 | 43.3 | 41.9 | 40.2 | 39.1 | 38.0 |
| 5° | 48.1 | 47.8 | 47.3 | 47.0 | 46.4 | 46.1 | 42.5 | 39.4 | 36.9 | 34.9 | 33.5 |
| 7.5° | 50.1 | 49.8 | 49.0 | 48.1 | 47.8 | 47.3 | 41.4 | 37.4 | 34.0 | 31.8 | 30.4 |
| 10° | 52.6 | 51.8 | 50.9 | 49.8 | 49.0 | 48.1 | 40.2 | 35.2 | 31.5 | 29.5 | 28.1 |
| 12.5° | 56.3 | 54.9 | 53.5 | 52.0 | 50.9 | 49.5 | 39.7 | 33.2 | 29.5 | 27.3 | 25.9 |
| 15° | 60.5 | 58.5 | 56.8 | 55.1 | 53.2 | 51.8 | 38.5 | 31.5 | 27.9 | 25.6 | 23.9 |
| 17.5° | 64.4 | 62.2 | 59.6 | 57.1 | 55.1 | 53.2 | 37.4 | 29.8 | 26.2 | 23.9 | 22.2 |
| 20° | 70.1 | 66.7 | 63.6 | 60.5 | 57.7 | 55.1 | 35.7 | 28.1 | 24.8 | 22.2 | 20.5 |
| 22.5° | 76.2 | 72.3 | 68.4 | 64.1 | 60.5 | 57.1 | 34.3 | 26.7 | 23.4 | 20.8 | 18.8 |
| 25° | 84.1 | 79.3 | 74.0 | 68.6 | 64.4 | 59.9 | 32.9 | 25.3 | 21.9 | 19.4 | 17.4 |
| 27.5° | 95.1 | 88.3 | 82.4 | 75.7 | 69.2 | 64.1 | 31.8 | 24.2 | 20.5 | 18.0 | 16.0 |
| 30° | 110.0 | 100.2 | 90.9 | 83.6 | 76.0 | 68.6 | 30.7 | 22.8 | 19.4 | 16.6 | 14.3 |
| 32.5° | 126.6 | 115.1 | 104.4 | 93.4 | 83.8 | 75.4 | 29.5 | 21.7 | 18.0 | 15.2 | 13.2 |
| 35° | 147.1 | 132.5 | 118.2 | 105.5 | 94.0 | 82.7 | 28.4 | 20.5 | 16.9 | 13.8 | 11.8 |
| 37.5° | 176.7 | 158.4 | 139.5 | 123.2 | 108.3 | 93.4 | 27.6 | 19.4 | 15.5 | 12.4 | 10.4 |
| 40° | 217.2 | 193.6 | 170.5 | 148.3 | 128.8 | 110.3 | 26.4 | 18.3 | 14.3 | 11.3 | 9.3 |
| 42.5° | 261.1 | 232.4 | 202.0 | 177.0 | 150.2 | 126.9 | 25.3 | 17.2 | 13.2 | 10.1 | 8.2 |
| 45° | 315.7 | 279.9 | 243.1 | 209.0 | 176.4 | 146.3 | 24.2 | 16.0 | 11.8 | 9.0 | 7.0 |
| 47.5° | 375.3 | 329.7 | 288.1 | 245.3 | 206.5 | 170.5 | 22.8 | 15.2 | 10.7 | 7.9 | 6.2 |
| 50° | 436.6 | 388.5 | 335.9 | 287.2 | 241.1 | 194.7 | 21.4 | 13.8 | 9.6 | 7.0 | 5.1 |
| 52.5° | 502.7 | 445.9 | 392.2 | 331.7 | 278.0 | 226.5 | 20.0 | 12.7 | 8.7 | 6.2 | 4.2 |
| 55° | 586.9 | 523.3 | 460.3 | 392.5 | 327.7 | 263.3 | 18.6 | 11.3 | 7.6 | 5.3 | 3.4 |
| 57.5° | 692.6 | 617.2 | 539.9 | 463.4 | 384.9 | 311.7 | 17.4 | 9.8 | 6.5 | 4.5 | 2.8 |
| 60° | 792.5 | 704.5 | 610.8 | 522.7 | 434.1 | 348.8 | 15.8 | 8.7 | 5.6 | 3.7 | 2.8 |
| 62.5° | 844.3 | 743.8 | 642.8 | 545.8 | 451.3 | 362.1 | 14.1 | 7.3 | 4.8 | 3.1 | 2.5 |
| 65° | 831.6 | 729.2 | 631.3 | 533.4 | 440.8 | 353.6 | 12.4 | 6.5 | 4.2 | 2.8 | 2.5 |
| 66° | 813.3 | 712.0 | 613.6 | 520.5 | 432.1 | 344.6 | 11.5 | 6.2 | 3.9 | 2.8 | 2.3 |
| 67.5° | 773.4 | 675.5 | 581.5 | 494.9 | 408.2 | 327.5 | 10.4 | 5.6 | 3.7 | 2.5 | 2.3 |
| 70° | 660.6 | 571.7 | 496.5 | 419.5 | 348.8 | 276.0 | 8.4 | 4.8 | 3.1 | 2.3 | 2.3 |
| 72.5° | 437.2 | 376.7 | 326.6 | 281.0 | 234.9 | 182.3 | 7.0 | 3.9 | 2.5 | 2.3 | 2.0 |
| 75° | 164.9 | 149.1 | 128.0 | 115.1 | 100.4 | 88.1 | 5.6 | 2.5 | 2.0 | 2.0 | 2.0 |
| 77.5° | 29.3 | 27.0 | 23.9 | 21.9 | 20.3 | 18.6 | 4.5 | 1.7 | 1.7 | 2.0 | 2.0 |
| 80° | 19.7 | 18.3 | 16.6 | 15.2 | 14.1 | 12.7 | 3.1 | 1.4 | 1.7 | 1.7 | 2.0 |
| 82.5° | 14.1 | 13.2 | 12.4 | 11.3 | 10.4 | 9.3 | 2.0 | 1.4 | 1.7 | 1.7 | 1.7 |
| 85° | 8.4 | 7.9 | 7.3 | 6.8 | 5.9 | 5.6 | 1.4 | 1.4 | 1.4 | 1.7 | 1.7 |
| 87.5° | 2.3 | 2.0 | 2.3 | 2.3 | 1.7 | 2.0 | 1.1 | 1.1 | 1.1 | 1.4 | 1.4 |
| 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: P150488

CATALOG NUMBER: VWM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|
| 0° | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 |
| 2.5° | 37.4 | 37.4 | 36.9 | 37.7 | 37.7 |
| 5° | 32.4 | 32.4 | 32.1 | 32.4 | 32.4 |
| 7.5° | 29.5 | 29.3 | 29.3 | 29.3 | 29.5 |
| 10° | 27.0 | 26.7 | 26.7 | 26.7 | 26.7 |
| 12.5° | 24.8 | 24.5 | 24.2 | 24.5 | 24.5 |
| 15° | 22.8 | 22.2 | 22.2 | 22.2 | 22.2 |
| 17.5° | 21.1 | 20.5 | 20.3 | 20.3 | 20.3 |
| 20° | 19.4 | 18.6 | 18.6 | 18.6 | 18.6 |
| 22.5° | 17.7 | 16.9 | 16.9 | 16.9 | 16.9 |
| 25° | 16.0 | 15.2 | 15.2 | 15.2 | 15.2 |
| 27.5° | 14.6 | 13.8 | 13.8 | 13.8 | 13.8 |
| 30° | 12.9 | 12.4 | 12.4 | 12.7 | 12.4 |
| 32.5° | 11.8 | 11.0 | 11.0 | 11.3 | 11.3 |
| 35° | 10.4 | 9.8 | 9.8 | 9.8 | 9.8 |
| 37.5° | 9.0 | 8.4 | 8.4 | 8.4 | 8.4 |
| 40° | 7.9 | 7.3 | 7.0 | 7.3 | 7.3 |
| 42.5° | 6.8 | 6.2 | 5.9 | 5.9 | 5.9 |
| 45° | 5.9 | 5.1 | 4.8 | 5.1 | 5.1 |
| 47.5° | 4.8 | 4.2 | 4.2 | 4.5 | 4.5 |
| 50° | 3.7 | 3.7 | 3.9 | 4.5 | 4.5 |
| 52.5° | 3.4 | 3.4 | 3.9 | 4.5 | 4.5 |
| 55° | 3.1 | 3.4 | 3.9 | 4.2 | 4.5 |
| 57.5° | 2.8 | 3.4 | 3.9 | 4.2 | 4.2 |
| 60° | 2.8 | 3.1 | 3.7 | 4.2 | 4.2 |
| 62.5° | 2.5 | 2.8 | 3.4 | 3.9 | 3.9 |
| 65° | 2.5 | 2.8 | 3.4 | 3.9 | 3.9 |
| 66° | 2.5 | 2.8 | 3.4 | 3.9 | 3.9 |
| 67.5° | 2.5 | 2.8 | 3.4 | 3.9 | 3.9 |
| 70° | 2.5 | 2.8 | 3.4 | 3.7 | 3.7 |
| 72.5° | 2.3 | 2.5 | 3.1 | 3.7 | 3.7 |
| 75° | 2.3 | 2.5 | 3.1 | 3.7 | 3.7 |
| 77.5° | 2.3 | 2.5 | 3.1 | 3.7 | 3.7 |
| 80° | 2.3 | 2.5 | 3.1 | 3.4 | 3.7 |
| 82.5° | 2.0 | 2.5 | 2.8 | 3.4 | 3.4 |
| 85° | 2.0 | 2.3 | 2.8 | 3.1 | 3.4 |
| 87.5° | 1.7 | 2.0 | 2.3 | 2.8 | 2.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)