

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: P151653

Luminaire Tested: **VWM-F03-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151653
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-SL4-HSS-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 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: 4253.2 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

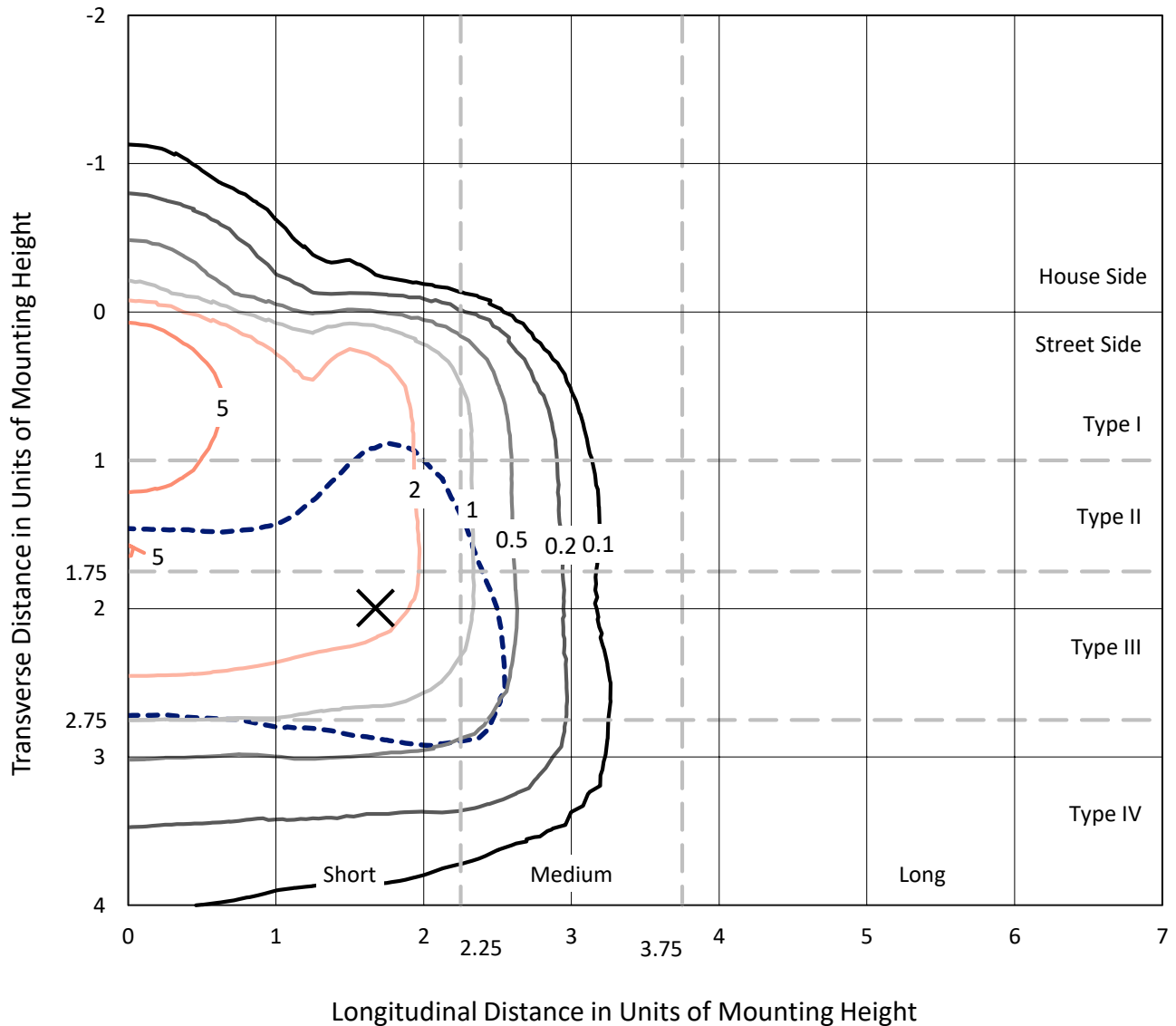
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

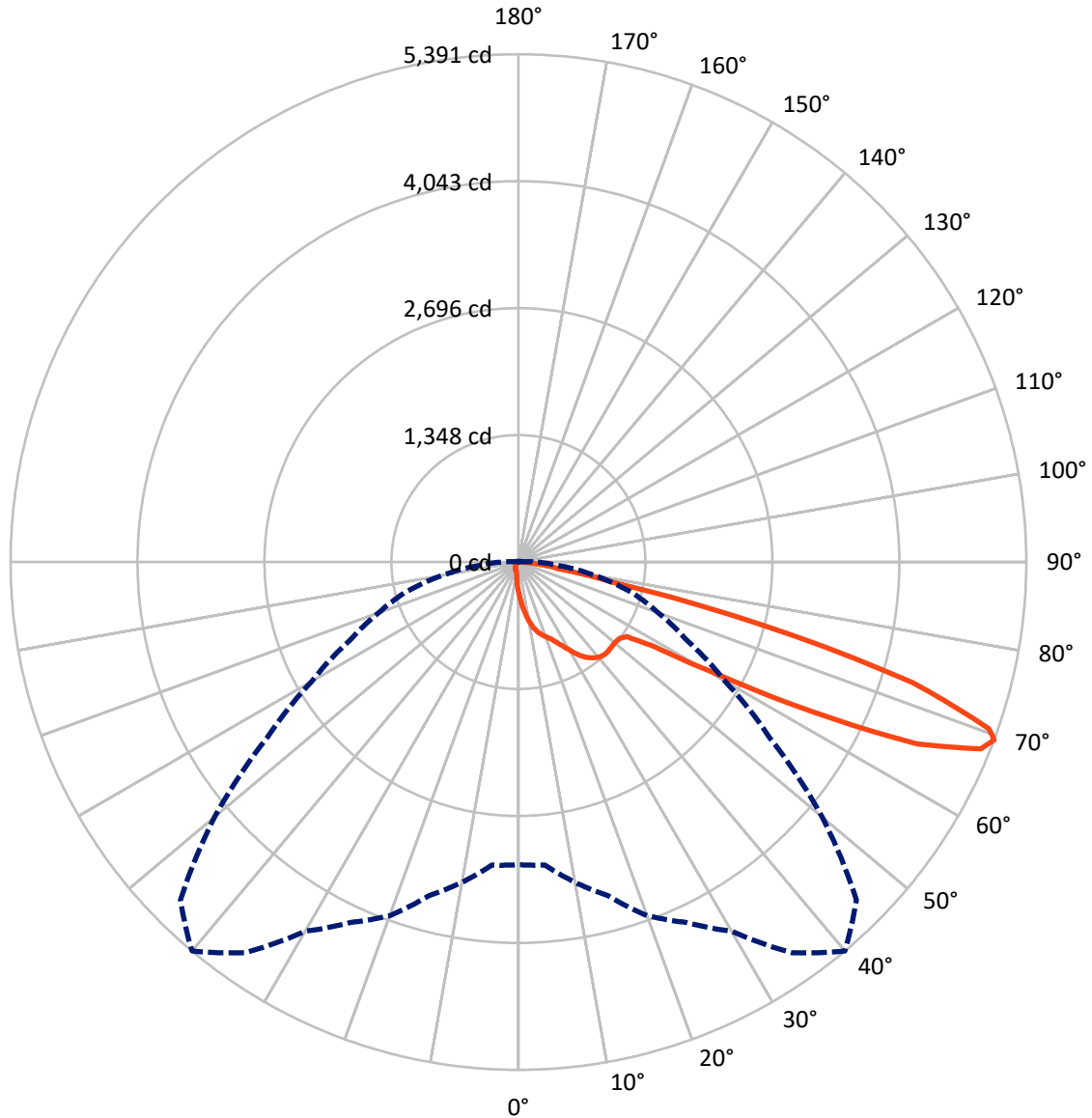
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 126.7 | 0.0 | 126.7 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 4126.5 | 0.0 | 4126.5 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 4253.2 | 0.0 | 4253.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.0 | 0.8 |
| 10°-20° | 113.8 | 2.7 |
| 20°-30° | 217.9 | 5.1 |
| 30°-40° | 362.3 | 8.5 |
| 40°-50° | 490.2 | 11.5 |
| 50°-60° | 766.7 | 18.0 |
| 60°-70° | 1576.3 | 37.1 |
| 70°-80° | 634.3 | 14.9 |
| 80°-90° | 58.7 | 1.4 |
| 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° | 4253.2 | 100.0 |
| 0°-180° | 4253.2 | 100.0 |



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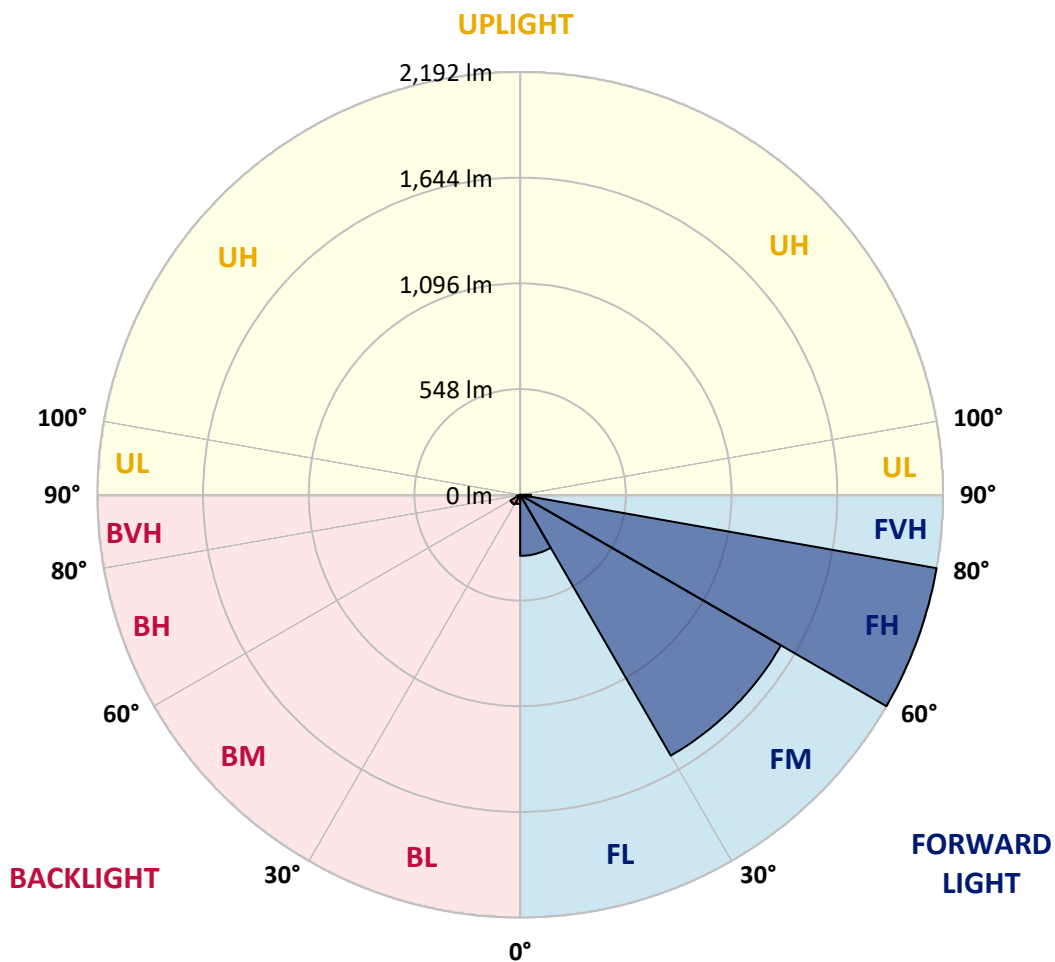
CATALOG NUMBER: VWM-F03-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 316.5 | 7.4 | | | |
| FM | (30°-60°) | 1561.4 | 36.7 | | | |
| FH | (60°-80°) | 2192.1 | 51.5 | | | G2/5000 |
| FVH | (80°-90°) | 56.5 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 48.2 | 1.1 | B0/110 | | |
| BM | (30°-60°) | 57.8 | 1.4 | B0/220 | | |
| BH | (60°-80°) | 18.5 | 0.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.2 | 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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 |
| 2.5° | 428.5 | 423.6 | 418.0 | 418.0 | 411.1 | 411.1 | 406.9 | 395.7 | 394.4 | 388.1 | 381.8 |
| 5° | 546.9 | 542.8 | 535.8 | 529.5 | 523.9 | 514.2 | 507.2 | 494.0 | 479.4 | 465.4 | 452.9 |
| 7.5° | 662.6 | 660.5 | 648.0 | 645.9 | 636.8 | 620.8 | 606.9 | 587.3 | 562.3 | 542.8 | 519.8 |
| 10° | 769.9 | 765.0 | 762.2 | 750.4 | 737.1 | 719.7 | 698.1 | 674.4 | 645.2 | 614.5 | 581.8 |
| 12.5° | 854.9 | 852.1 | 839.6 | 834.7 | 820.8 | 803.3 | 776.2 | 745.5 | 716.2 | 676.5 | 638.2 |
| 15° | 918.3 | 913.4 | 905.1 | 897.4 | 880.7 | 865.3 | 840.3 | 806.8 | 771.3 | 728.1 | 682.1 |
| 17.5° | 971.2 | 962.2 | 960.1 | 948.3 | 930.8 | 912.7 | 884.9 | 854.2 | 812.4 | 769.2 | 719.0 |
| 20° | 1042.3 | 1029.8 | 1025.6 | 1008.2 | 988.0 | 962.9 | 930.8 | 892.5 | 848.6 | 801.2 | 749.7 |
| 22.5° | 1125.9 | 1116.9 | 1107.8 | 1092.5 | 1066.7 | 1031.2 | 984.5 | 942.7 | 886.9 | 834.7 | 779.0 |
| 25° | 1244.4 | 1236.7 | 1222.1 | 1201.2 | 1169.1 | 1126.6 | 1070.2 | 1008.9 | 943.4 | 876.5 | 811.0 |
| 27.5° | 1359.3 | 1352.4 | 1341.9 | 1325.9 | 1289.7 | 1243.0 | 1173.3 | 1095.3 | 1012.4 | 931.5 | 859.1 |
| 30° | 1467.3 | 1461.1 | 1450.6 | 1434.6 | 1402.5 | 1356.5 | 1277.8 | 1194.2 | 1091.1 | 997.0 | 909.9 |
| 32.5° | 1583.7 | 1581.6 | 1569.7 | 1546.8 | 1518.9 | 1456.9 | 1371.2 | 1281.3 | 1176.8 | 1068.1 | 966.4 |
| 35° | 1715.4 | 1699.3 | 1688.2 | 1665.2 | 1617.8 | 1551.6 | 1451.3 | 1353.1 | 1243.0 | 1131.5 | 1017.9 |
| 37.5° | 1826.8 | 1811.5 | 1797.6 | 1768.3 | 1710.5 | 1626.2 | 1512.6 | 1404.6 | 1291.1 | 1177.5 | 1061.8 |
| 40° | 1908.4 | 1900.7 | 1884.0 | 1845.7 | 1780.9 | 1680.5 | 1557.9 | 1440.2 | 1325.9 | 1211.6 | 1097.4 |
| 42.5° | 1969.0 | 1957.1 | 1938.3 | 1898.6 | 1822.0 | 1707.7 | 1576.0 | 1454.8 | 1341.9 | 1232.5 | 1120.4 |
| 45° | 1991.3 | 1981.5 | 1964.1 | 1920.9 | 1838.0 | 1715.4 | 1575.3 | 1450.6 | 1342.6 | 1238.8 | 1135.7 |
| 47.5° | 1978.0 | 1968.3 | 1952.9 | 1912.5 | 1831.0 | 1706.3 | 1562.8 | 1438.8 | 1335.6 | 1240.9 | 1149.6 |
| 50° | 1934.1 | 1928.6 | 1916.7 | 1882.6 | 1809.4 | 1688.9 | 1551.6 | 1432.5 | 1334.2 | 1251.3 | 1169.1 |
| 52.5° | 1930.0 | 1926.5 | 1911.8 | 1877.7 | 1803.2 | 1683.3 | 1550.2 | 1436.0 | 1346.1 | 1264.6 | 1183.1 |
| 55° | 2358.4 | 2309.0 | 2198.2 | 2104.1 | 1949.5 | 1765.5 | 1620.6 | 1492.4 | 1396.3 | 1316.8 | 1259.7 |
| 57.5° | 3352.0 | 3278.1 | 3132.5 | 2953.5 | 2598.1 | 2249.1 | 1969.7 | 1767.6 | 1668.0 | 1631.8 | 1653.4 |
| 60° | 3817.4 | 3804.2 | 3781.2 | 3696.2 | 3514.3 | 3214.0 | 2879.6 | 2518.0 | 2373.1 | 2360.5 | 2404.4 |
| 62.5° | 4038.3 | 4029.9 | 4036.9 | 4026.4 | 3970.0 | 3882.2 | 3786.1 | 3630.0 | 3486.5 | 3393.8 | 3197.3 |
| 65° | 4140.0 | 4145.6 | 4185.3 | 4216.6 | 4223.6 | 4246.6 | 4317.0 | 4511.4 | 4653.5 | 4414.5 | 3869.0 |
| 67.5° | 3881.5 | 3914.3 | 4005.5 | 4119.8 | 4253.6 | 4383.2 | 4592.2 | 5001.9 | 5293.8 | 5013.0 | 4238.2 |
| 69° | 3213.3 | 3229.4 | 3452.3 | 3667.6 | 3994.4 | 4222.9 | 4526.0 | 5063.2 | 5391.3 | 5074.3 | 4209.0 |
| 70° | 2529.8 | 2544.5 | 2783.5 | 3076.1 | 3628.6 | 3922.6 | 4319.1 | 4959.4 | 5300.1 | 4992.8 | 4058.5 |
| 72.5° | 1141.3 | 1120.4 | 1204.7 | 1361.4 | 1962.0 | 2428.8 | 3122.1 | 4018.1 | 4372.7 | 4000.0 | 3036.4 |
| 75° | 797.1 | 788.0 | 797.1 | 797.8 | 891.1 | 1149.6 | 1450.6 | 2178.0 | 2693.6 | 2324.3 | 1450.6 |
| 77.5° | 617.3 | 611.0 | 604.8 | 597.8 | 608.9 | 682.1 | 711.4 | 772.7 | 1003.3 | 949.0 | 553.2 |
| 80° | 488.4 | 482.8 | 498.2 | 493.3 | 493.3 | 501.6 | 496.1 | 473.1 | 429.9 | 398.5 | 356.7 |
| 82.5° | 227.1 | 228.5 | 228.5 | 248.0 | 298.9 | 349.1 | 365.1 | 342.1 | 303.8 | 258.5 | 208.3 |
| 85° | 21.6 | 24.4 | 41.1 | 63.4 | 126.1 | 142.1 | 142.8 | 118.4 | 118.4 | 93.4 | 75.2 |
| 87.5° | 0.0 | 0.7 | 0.7 | 0.7 | 6.3 | 17.4 | 14.6 | 4.2 | 2.1 | 2.1 | 3.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 |
| 2.5° | 370.7 | 368.6 | 360.2 | 351.9 | 344.2 | 335.8 | 328.2 | 320.5 | 312.1 | 305.9 | 298.2 |
| 5° | 433.4 | 418.0 | 400.6 | 383.9 | 367.2 | 349.8 | 331.6 | 315.6 | 298.9 | 283.6 | 268.9 |
| 7.5° | 496.8 | 466.8 | 443.1 | 413.2 | 386.0 | 358.8 | 333.7 | 308.0 | 284.3 | 262.0 | 241.1 |
| 10° | 550.4 | 514.2 | 477.3 | 438.9 | 399.9 | 363.7 | 328.9 | 298.2 | 266.8 | 239.7 | 213.9 |
| 12.5° | 594.3 | 548.3 | 503.0 | 455.0 | 411.1 | 365.1 | 321.9 | 285.0 | 248.0 | 217.4 | 190.9 |
| 15° | 634.0 | 581.1 | 526.7 | 471.0 | 415.3 | 363.0 | 314.9 | 268.9 | 231.3 | 196.5 | 166.5 |
| 17.5° | 666.1 | 605.5 | 544.2 | 481.4 | 421.5 | 360.2 | 305.9 | 257.8 | 213.9 | 177.7 | 148.4 |
| 20° | 693.9 | 630.5 | 564.4 | 494.0 | 425.7 | 359.5 | 298.2 | 243.9 | 198.6 | 160.2 | 131.7 |
| 22.5° | 719.7 | 656.3 | 585.3 | 510.0 | 432.0 | 358.8 | 291.2 | 233.4 | 185.3 | 147.0 | 118.4 |
| 25° | 749.0 | 682.1 | 607.6 | 526.7 | 443.1 | 361.6 | 287.1 | 225.0 | 173.5 | 134.5 | 108.0 |
| 27.5° | 781.7 | 711.4 | 634.0 | 547.6 | 457.8 | 367.2 | 285.7 | 216.0 | 163.0 | 122.6 | 99.6 |
| 30° | 827.7 | 746.2 | 660.5 | 568.5 | 471.0 | 373.5 | 284.3 | 210.4 | 152.6 | 113.6 | 91.3 |
| 32.5° | 868.1 | 780.3 | 689.8 | 590.1 | 485.6 | 379.7 | 283.6 | 202.8 | 142.8 | 104.5 | 85.0 |
| 35° | 910.6 | 811.7 | 714.9 | 611.0 | 498.2 | 386.7 | 282.9 | 197.2 | 133.8 | 95.5 | 78.7 |
| 37.5° | 947.6 | 838.2 | 734.4 | 629.2 | 512.1 | 393.0 | 283.6 | 192.3 | 125.4 | 87.8 | 73.2 |
| 40° | 978.9 | 865.3 | 756.0 | 645.9 | 526.7 | 402.7 | 284.3 | 187.4 | 117.1 | 80.8 | 68.3 |
| 42.5° | 1006.8 | 891.1 | 779.0 | 664.7 | 543.5 | 413.9 | 288.4 | 183.2 | 110.1 | 74.6 | 63.4 |
| 45° | 1028.4 | 914.8 | 804.0 | 691.2 | 570.6 | 432.0 | 296.1 | 180.5 | 103.1 | 69.0 | 59.2 |
| 47.5° | 1050.7 | 949.7 | 846.5 | 733.0 | 610.3 | 460.5 | 309.4 | 179.8 | 97.5 | 64.8 | 55.7 |
| 50° | 1081.3 | 984.5 | 884.2 | 775.5 | 646.6 | 489.8 | 325.4 | 180.5 | 90.6 | 60.6 | 52.3 |
| 52.5° | 1103.6 | 1020.0 | 932.9 | 849.3 | 733.0 | 579.0 | 387.4 | 193.0 | 87.1 | 57.1 | 48.1 |
| 55° | 1235.3 | 1220.7 | 1222.8 | 1236.7 | 1146.8 | 985.2 | 648.0 | 278.7 | 102.4 | 64.8 | 47.4 |
| 57.5° | 1741.8 | 1793.4 | 1823.4 | 1822.7 | 1674.3 | 1388.6 | 870.2 | 358.1 | 114.3 | 75.2 | 56.4 |
| 60° | 2407.9 | 2368.9 | 2313.9 | 2178.0 | 1980.8 | 1585.1 | 973.3 | 385.3 | 98.9 | 59.9 | 51.6 |
| 62.5° | 2996.7 | 2768.1 | 2565.4 | 2345.2 | 2086.7 | 1653.4 | 994.2 | 383.2 | 86.4 | 45.3 | 36.2 |
| 65° | 3363.8 | 2952.8 | 2625.3 | 2349.4 | 2044.9 | 1596.2 | 940.6 | 351.9 | 73.2 | 36.9 | 30.0 |
| 67.5° | 3451.6 | 2853.1 | 2389.8 | 2038.0 | 1708.4 | 1242.3 | 690.5 | 264.8 | 57.1 | 30.7 | 26.5 |
| 69° | 3260.0 | 2536.1 | 1980.1 | 1580.9 | 1243.0 | 824.2 | 427.1 | 167.2 | 43.9 | 27.9 | 24.4 |
| 70° | 2998.7 | 2205.9 | 1612.9 | 1268.8 | 920.4 | 579.0 | 298.9 | 117.7 | 35.5 | 25.8 | 22.3 |
| 72.5° | 1929.3 | 1158.7 | 792.9 | 551.8 | 379.7 | 230.6 | 117.1 | 53.0 | 27.2 | 21.6 | 18.1 |
| 75° | 748.3 | 428.5 | 310.7 | 236.2 | 184.6 | 128.2 | 71.1 | 34.1 | 23.0 | 18.1 | 13.9 |
| 77.5° | 368.6 | 282.2 | 230.6 | 158.2 | 92.0 | 57.1 | 38.3 | 26.5 | 18.8 | 13.2 | 9.1 |
| 80° | 291.2 | 193.7 | 115.7 | 71.8 | 54.3 | 41.1 | 29.3 | 21.6 | 13.9 | 8.4 | 6.3 |
| 82.5° | 149.1 | 81.5 | 59.9 | 48.8 | 40.4 | 32.0 | 23.7 | 15.3 | 9.1 | 5.6 | 4.9 |
| 85° | 46.7 | 34.1 | 30.7 | 30.0 | 27.9 | 23.0 | 16.7 | 9.8 | 5.6 | 3.5 | 3.5 |
| 87.5° | 3.5 | 4.9 | 6.3 | 4.9 | 5.6 | 4.9 | 6.3 | 4.2 | 2.8 | 2.8 | 2.1 |
| 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-F03-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 | 321.2 |
| 2.5° | 292.6 | 284.3 | 276.6 | 271.7 | 262.7 | 259.2 | 255.7 | 254.3 | 248.0 | 249.4 | 243.9 |
| 5° | 255.7 | 241.1 | 229.9 | 218.8 | 208.3 | 200.7 | 194.4 | 186.7 | 180.5 | 177.7 | 172.1 |
| 7.5° | 222.3 | 203.4 | 188.8 | 177.0 | 164.4 | 154.7 | 146.3 | 140.7 | 135.2 | 129.6 | 126.8 |
| 10° | 193.0 | 172.8 | 156.1 | 144.2 | 132.4 | 124.0 | 117.7 | 113.6 | 110.1 | 108.0 | 107.3 |
| 12.5° | 165.8 | 146.3 | 131.0 | 120.5 | 111.5 | 107.3 | 104.5 | 102.4 | 101.7 | 101.0 | 101.0 |
| 15° | 144.9 | 125.4 | 113.6 | 105.9 | 101.7 | 99.6 | 98.9 | 97.5 | 96.1 | 95.5 | 95.5 |
| 17.5° | 125.4 | 110.8 | 102.4 | 98.2 | 96.1 | 94.8 | 93.4 | 92.0 | 90.6 | 89.9 | 89.9 |
| 20° | 112.2 | 100.3 | 96.1 | 93.4 | 91.3 | 89.9 | 87.8 | 86.4 | 85.7 | 85.0 | 84.3 |
| 22.5° | 101.7 | 94.1 | 91.3 | 89.2 | 86.4 | 84.3 | 82.9 | 81.5 | 80.1 | 79.4 | 78.7 |
| 25° | 94.1 | 89.2 | 87.1 | 84.3 | 81.5 | 79.4 | 77.3 | 75.2 | 73.9 | 73.2 | 71.8 |
| 27.5° | 88.5 | 85.0 | 82.2 | 78.7 | 75.9 | 73.9 | 71.8 | 69.7 | 68.3 | 66.9 | 66.2 |
| 30° | 83.6 | 80.1 | 76.6 | 73.9 | 70.4 | 68.3 | 65.5 | 63.4 | 62.7 | 61.3 | 59.9 |
| 32.5° | 78.7 | 75.2 | 71.8 | 68.3 | 64.8 | 62.0 | 60.6 | 57.8 | 56.4 | 55.7 | 54.3 |
| 35° | 73.2 | 69.7 | 65.5 | 62.7 | 59.2 | 56.4 | 54.3 | 52.3 | 50.9 | 49.5 | 48.8 |
| 37.5° | 68.3 | 64.1 | 59.9 | 56.4 | 53.6 | 50.9 | 48.8 | 46.7 | 45.3 | 43.9 | 43.2 |
| 40° | 62.7 | 58.5 | 54.3 | 50.9 | 48.1 | 46.0 | 43.9 | 41.8 | 40.4 | 39.7 | 39.7 |
| 42.5° | 57.8 | 53.0 | 48.8 | 46.0 | 43.9 | 41.1 | 39.0 | 36.9 | 36.2 | 35.5 | 36.2 |
| 45° | 53.0 | 48.1 | 44.6 | 41.8 | 39.7 | 36.9 | 34.8 | 33.4 | 32.7 | 33.4 | 34.1 |
| 47.5° | 48.8 | 43.9 | 40.4 | 38.3 | 36.2 | 34.1 | 32.0 | 30.7 | 30.7 | 32.0 | 33.4 |
| 50° | 44.6 | 39.7 | 36.9 | 35.5 | 33.4 | 31.4 | 28.6 | 27.9 | 28.6 | 30.0 | 31.4 |
| 52.5° | 40.4 | 34.8 | 32.7 | 32.0 | 30.0 | 27.9 | 25.8 | 25.1 | 25.8 | 27.2 | 26.5 |
| 55° | 36.2 | 30.7 | 30.0 | 29.3 | 27.2 | 24.4 | 22.3 | 22.3 | 22.3 | 21.6 | 20.2 |
| 57.5° | 34.8 | 27.2 | 26.5 | 25.8 | 23.7 | 20.9 | 19.5 | 18.1 | 17.4 | 15.3 | 14.6 |
| 60° | 36.2 | 24.4 | 24.4 | 23.0 | 20.9 | 18.1 | 16.0 | 13.9 | 12.5 | 11.1 | 11.1 |
| 62.5° | 29.3 | 22.3 | 21.6 | 20.2 | 17.4 | 14.6 | 12.5 | 10.5 | 9.8 | 9.1 | 9.1 |
| 65° | 23.7 | 20.2 | 18.8 | 16.7 | 14.6 | 11.8 | 9.8 | 8.4 | 7.7 | 7.7 | 8.4 |
| 67.5° | 21.6 | 18.1 | 16.0 | 13.9 | 11.8 | 9.1 | 7.7 | 7.0 | 7.0 | 7.7 | 7.7 |
| 69° | 20.2 | 16.7 | 14.6 | 12.5 | 10.5 | 8.4 | 7.0 | 7.0 | 7.0 | 7.0 | 7.7 |
| 70° | 18.8 | 16.0 | 13.9 | 11.8 | 9.1 | 7.0 | 6.3 | 6.3 | 7.0 | 7.0 | 7.7 |
| 72.5° | 14.6 | 12.5 | 11.8 | 9.8 | 7.0 | 6.3 | 5.6 | 6.3 | 6.3 | 7.0 | 7.0 |
| 75° | 11.1 | 9.1 | 9.1 | 7.7 | 5.6 | 4.9 | 4.9 | 5.6 | 5.6 | 6.3 | 6.3 |
| 77.5° | 7.7 | 6.3 | 6.3 | 5.6 | 4.9 | 4.2 | 4.2 | 4.9 | 5.6 | 5.6 | 6.3 |
| 80° | 5.6 | 4.9 | 4.2 | 4.9 | 4.2 | 3.5 | 4.2 | 4.9 | 4.9 | 5.6 | 5.6 |
| 82.5° | 4.2 | 4.2 | 4.2 | 4.2 | 3.5 | 3.5 | 4.2 | 4.2 | 4.9 | 5.6 | 5.6 |
| 85° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.2 | 4.2 | 4.9 | 4.9 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.8 | 2.8 | 3.5 | 3.5 | 3.5 | 3.5 | 4.2 | 4.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 321.2 | 321.2 | 321.2 | 321.2 |
| 2.5° | 242.5 | 241.8 | 239.0 | 239.7 |
| 5° | 170.0 | 165.8 | 168.6 | 167.9 |
| 7.5° | 124.7 | 124.0 | 123.3 | 124.7 |
| 10° | 106.6 | 106.6 | 105.9 | 106.6 |
| 12.5° | 100.3 | 100.3 | 100.3 | 100.3 |
| 15° | 95.5 | 95.5 | 94.8 | 94.8 |
| 17.5° | 89.9 | 89.9 | 89.9 | 89.2 |
| 20° | 84.3 | 83.6 | 83.6 | 83.6 |
| 22.5° | 78.0 | 77.3 | 77.3 | 77.3 |
| 25° | 71.8 | 71.1 | 71.1 | 71.1 |
| 27.5° | 65.5 | 64.8 | 64.1 | 64.1 |
| 30° | 59.2 | 58.5 | 57.8 | 57.8 |
| 32.5° | 53.0 | 52.3 | 51.6 | 51.6 |
| 35° | 47.4 | 47.4 | 46.7 | 46.0 |
| 37.5° | 42.5 | 42.5 | 42.5 | 42.5 |
| 40° | 39.0 | 39.7 | 39.7 | 39.7 |
| 42.5° | 36.9 | 37.6 | 38.3 | 39.0 |
| 45° | 35.5 | 36.9 | 37.6 | 37.6 |
| 47.5° | 34.8 | 35.5 | 36.2 | 36.2 |
| 50° | 32.0 | 31.4 | 31.4 | 31.4 |
| 52.5° | 25.8 | 24.4 | 23.7 | 23.0 |
| 55° | 18.8 | 18.1 | 16.7 | 16.7 |
| 57.5° | 13.2 | 13.2 | 12.5 | 12.5 |
| 60° | 10.5 | 10.5 | 9.8 | 10.5 |
| 62.5° | 9.1 | 9.1 | 9.1 | 9.1 |
| 65° | 8.4 | 8.4 | 8.4 | 8.4 |
| 67.5° | 8.4 | 8.4 | 8.4 | 8.4 |
| 69° | 7.7 | 7.7 | 7.7 | 7.7 |
| 70° | 7.7 | 7.7 | 7.7 | 7.7 |
| 72.5° | 7.0 | 7.0 | 7.0 | 7.0 |
| 75° | 6.3 | 7.0 | 7.0 | 7.0 |
| 77.5° | 6.3 | 6.3 | 6.3 | 6.3 |
| 80° | 5.6 | 5.6 | 6.3 | 6.3 |
| 82.5° | 5.6 | 5.6 | 5.6 | 5.6 |
| 85° | 4.9 | 4.9 | 5.6 | 5.6 |
| 87.5° | 4.2 | 4.2 | 4.9 | 4.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)