

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: P151644

Luminaire Tested: **VWM-F02-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151644
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-F02-LED-E1-SL4-HSS-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.4 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

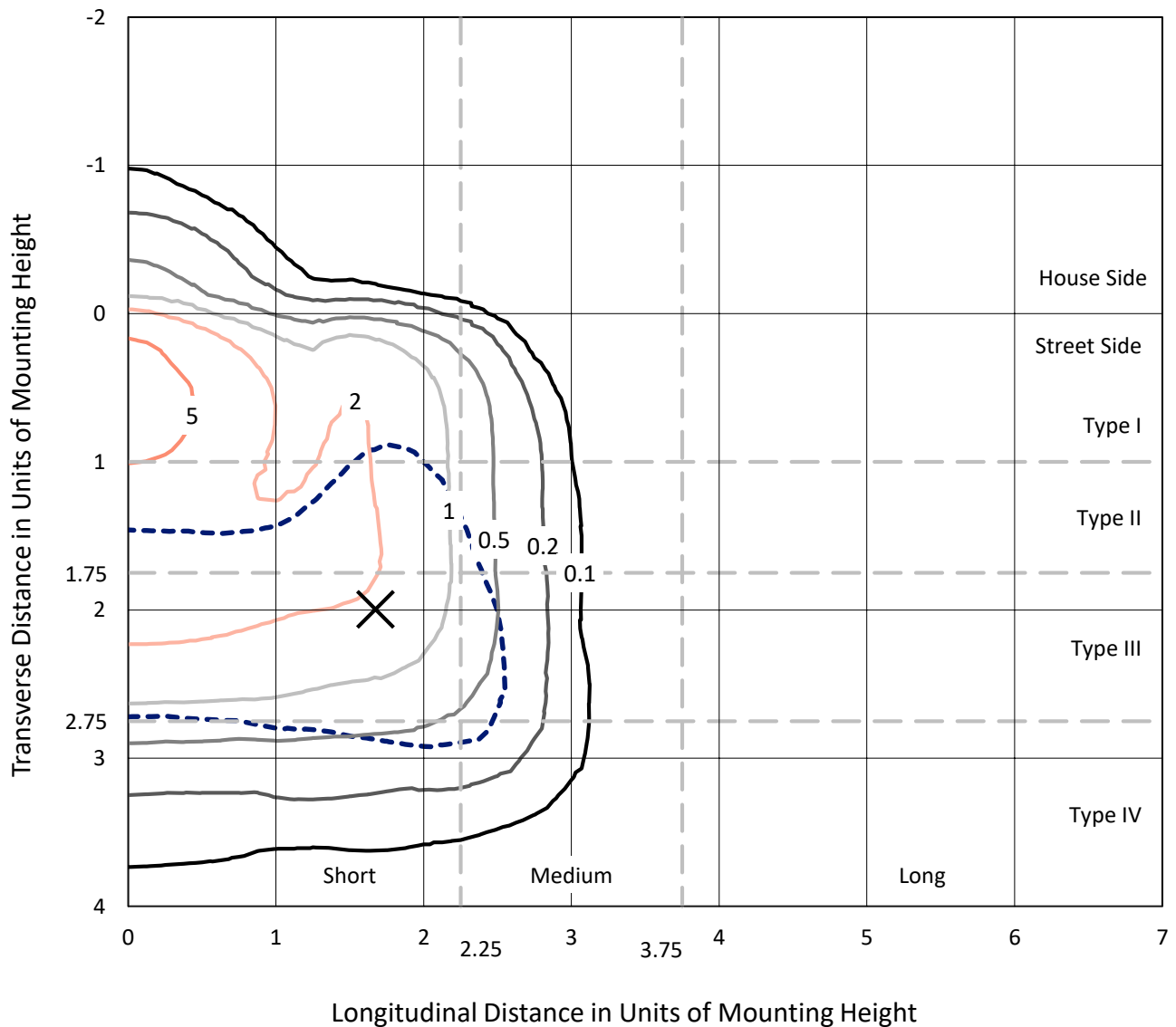
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

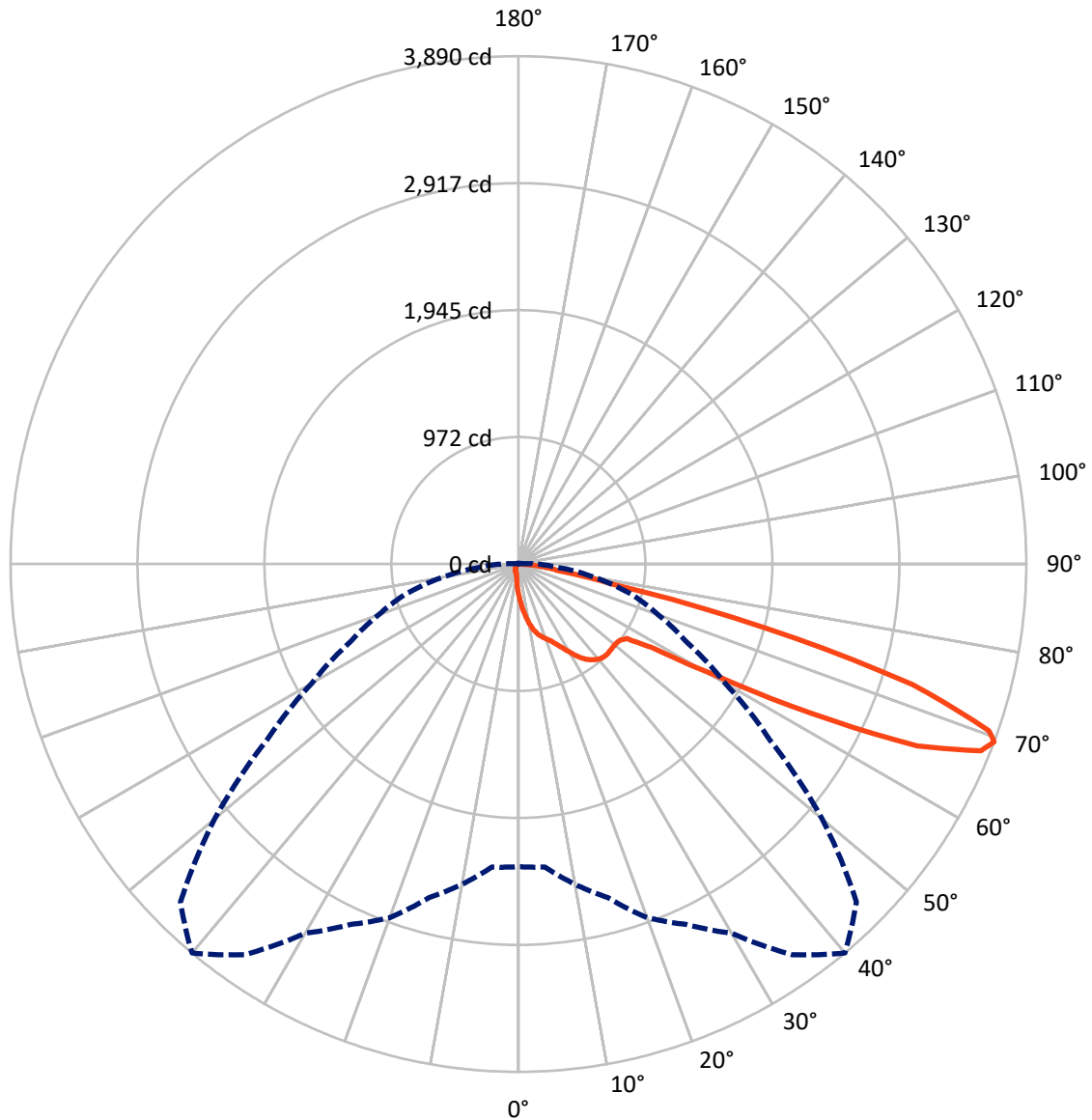
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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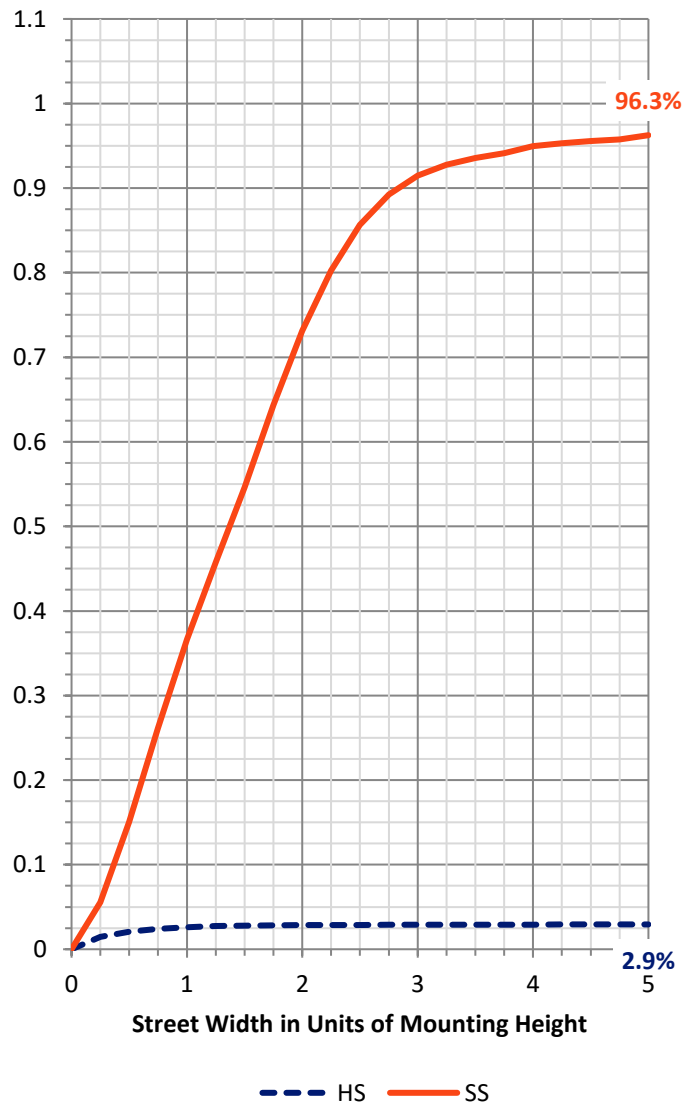
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 91.4 | 0.0 | 91.4 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 2977.1 | 0.0 | 2977.1 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 3068.4 | 0.0 | 3068.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.8 | 0.8 |
| 10°-20° | 82.1 | 2.7 |
| 20°-30° | 157.2 | 5.1 |
| 30°-40° | 261.4 | 8.5 |
| 40°-50° | 353.7 | 11.5 |
| 50°-60° | 553.1 | 18.0 |
| 60°-70° | 1137.2 | 37.1 |
| 70°-80° | 457.6 | 14.9 |
| 80°-90° | 42.3 | 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° | 3068.4 | 100.0 |
| 0°-180° | 3068.4 | 100.0 |



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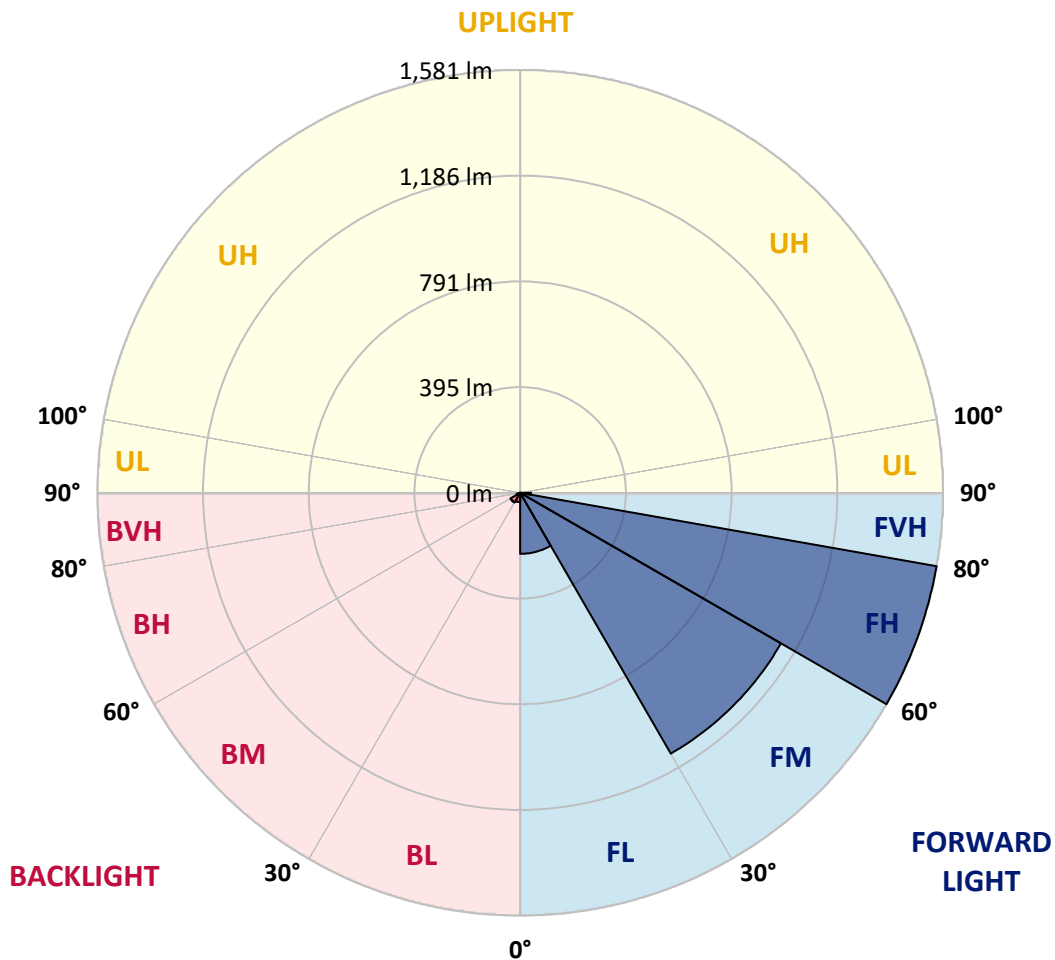
CATALOG NUMBER: VWM-F02-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 228.4 | 7.4 | | | |
| FM | (30°-60°) | 1126.5 | 36.7 | | | |
| FH | (60°-80°) | 1581.5 | 51.5 | | | G1/1800 |
| FVH | (80°-90°) | 40.8 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 34.8 | 1.1 | B0/110 | | |
| BM | (30°-60°) | 41.7 | 1.4 | B0/220 | | |
| BH | (60°-80°) | 13.3 | 0.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.6 | 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 IV Short





REPORT NUMBER: P151644
 CATALOG NUMBER: VWM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 |
| 2.5° | 309.1 | 305.6 | 301.6 | 301.6 | 296.6 | 296.6 | 293.6 | 285.5 | 284.5 | 280.0 | 275.5 |
| 5° | 394.6 | 391.6 | 386.5 | 382.0 | 378.0 | 371.0 | 365.9 | 356.4 | 345.8 | 335.8 | 326.7 |
| 7.5° | 478.0 | 476.5 | 467.5 | 466.0 | 459.4 | 447.9 | 437.8 | 423.7 | 405.6 | 391.6 | 375.0 |
| 10° | 555.4 | 551.9 | 549.9 | 541.4 | 531.8 | 519.3 | 503.7 | 486.6 | 465.5 | 443.3 | 419.7 |
| 12.5° | 616.8 | 614.8 | 605.7 | 602.2 | 592.1 | 579.6 | 560.0 | 537.8 | 516.7 | 488.1 | 460.4 |
| 15° | 662.5 | 659.0 | 653.0 | 647.4 | 635.4 | 624.3 | 606.2 | 582.1 | 556.4 | 525.3 | 492.1 |
| 17.5° | 700.7 | 694.2 | 692.7 | 684.1 | 671.6 | 658.5 | 638.4 | 616.3 | 586.1 | 554.9 | 518.7 |
| 20° | 752.0 | 742.9 | 739.9 | 727.4 | 712.8 | 694.7 | 671.6 | 643.9 | 612.2 | 578.1 | 540.9 |
| 22.5° | 812.3 | 805.8 | 799.2 | 788.2 | 769.6 | 743.9 | 710.3 | 680.1 | 639.9 | 602.2 | 562.0 |
| 25° | 897.8 | 892.2 | 881.7 | 866.6 | 843.5 | 812.8 | 772.1 | 727.9 | 680.6 | 632.3 | 585.1 |
| 27.5° | 980.7 | 975.7 | 968.1 | 956.6 | 930.4 | 896.7 | 846.5 | 790.2 | 730.4 | 672.1 | 619.8 |
| 30° | 1058.6 | 1054.1 | 1046.5 | 1035.0 | 1011.9 | 978.7 | 921.9 | 861.6 | 787.2 | 719.3 | 656.5 |
| 32.5° | 1142.6 | 1141.0 | 1132.5 | 1115.9 | 1095.8 | 1051.1 | 989.2 | 924.4 | 849.0 | 770.6 | 697.2 |
| 35° | 1237.6 | 1226.0 | 1218.0 | 1201.4 | 1167.2 | 1119.4 | 1047.0 | 976.2 | 896.7 | 816.3 | 734.4 |
| 37.5° | 1318.0 | 1306.9 | 1296.9 | 1275.8 | 1234.0 | 1173.2 | 1091.3 | 1013.4 | 931.4 | 849.5 | 766.1 |
| 40° | 1376.8 | 1371.3 | 1359.2 | 1331.6 | 1284.8 | 1212.4 | 1124.0 | 1039.0 | 956.6 | 874.1 | 791.7 |
| 42.5° | 1420.5 | 1412.0 | 1398.4 | 1369.8 | 1314.5 | 1232.0 | 1137.0 | 1049.6 | 968.1 | 889.2 | 808.3 |
| 45° | 1436.6 | 1429.6 | 1417.0 | 1385.8 | 1326.0 | 1237.6 | 1136.5 | 1046.5 | 968.6 | 893.7 | 819.3 |
| 47.5° | 1427.1 | 1420.0 | 1409.0 | 1379.8 | 1321.0 | 1231.0 | 1127.5 | 1038.0 | 963.6 | 895.2 | 829.4 |
| 50° | 1395.4 | 1391.4 | 1382.8 | 1358.2 | 1305.4 | 1218.5 | 1119.4 | 1033.5 | 962.6 | 902.8 | 843.5 |
| 52.5° | 1392.4 | 1389.9 | 1379.3 | 1354.7 | 1300.9 | 1214.4 | 1118.4 | 1036.0 | 971.1 | 912.3 | 853.5 |
| 55° | 1701.5 | 1665.8 | 1585.9 | 1518.0 | 1406.4 | 1273.7 | 1169.2 | 1076.7 | 1007.3 | 950.0 | 908.8 |
| 57.5° | 2418.3 | 2365.0 | 2260.0 | 2130.8 | 1874.4 | 1622.6 | 1421.0 | 1275.3 | 1203.4 | 1177.2 | 1192.8 |
| 60° | 2754.1 | 2744.5 | 2727.9 | 2666.6 | 2535.4 | 2318.8 | 2077.5 | 1816.6 | 1712.1 | 1703.0 | 1734.7 |
| 62.5° | 2913.4 | 2907.4 | 2912.4 | 2904.9 | 2864.2 | 2800.8 | 2731.5 | 2618.9 | 2515.3 | 2448.5 | 2306.7 |
| 65° | 2986.8 | 2990.8 | 3019.5 | 3042.1 | 3047.1 | 3063.7 | 3114.5 | 3254.7 | 3357.3 | 3184.9 | 2791.3 |
| 67.5° | 2800.3 | 2824.0 | 2889.8 | 2972.2 | 3068.8 | 3162.2 | 3313.0 | 3608.6 | 3819.2 | 3616.7 | 3057.7 |
| 69° | 2318.3 | 2329.8 | 2490.7 | 2646.0 | 2881.8 | 3046.6 | 3265.3 | 3652.8 | 3889.6 | 3660.9 | 3036.6 |
| 70° | 1825.2 | 1835.7 | 2008.1 | 2219.3 | 2617.9 | 2830.0 | 3116.0 | 3578.0 | 3823.8 | 3602.1 | 2928.0 |
| 72.5° | 823.4 | 808.3 | 869.1 | 982.2 | 1415.5 | 1752.3 | 2252.4 | 2898.9 | 3154.7 | 2885.8 | 2190.6 |
| 75° | 575.0 | 568.5 | 575.0 | 575.5 | 642.9 | 829.4 | 1046.5 | 1571.3 | 1943.3 | 1676.9 | 1046.5 |
| 77.5° | 445.4 | 440.8 | 436.3 | 431.3 | 439.3 | 492.1 | 513.2 | 557.5 | 723.8 | 684.6 | 399.1 |
| 80° | 352.4 | 348.3 | 359.4 | 355.9 | 355.9 | 361.9 | 357.9 | 341.3 | 310.1 | 287.5 | 257.4 |
| 82.5° | 163.9 | 164.9 | 164.9 | 178.9 | 215.6 | 251.8 | 263.4 | 246.8 | 219.2 | 186.5 | 150.3 |
| 85° | 15.6 | 17.6 | 29.7 | 45.7 | 91.0 | 102.5 | 103.0 | 85.5 | 85.5 | 67.4 | 54.3 |
| 87.5° | 0.0 | 0.5 | 0.5 | 0.5 | 4.5 | 12.6 | 10.6 | 3.0 | 1.5 | 1.5 | 2.5 |
| 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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 CATALOG NUMBER: VWM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 |
| 2.5° | 267.4 | 265.9 | 259.9 | 253.8 | 248.3 | 242.3 | 236.8 | 231.2 | 225.2 | 220.7 | 215.1 |
| 5° | 312.7 | 301.6 | 289.0 | 277.0 | 264.9 | 252.3 | 239.3 | 227.7 | 215.6 | 204.6 | 194.0 |
| 7.5° | 358.4 | 336.8 | 319.7 | 298.1 | 278.5 | 258.9 | 240.8 | 222.2 | 205.1 | 189.0 | 173.9 |
| 10° | 397.1 | 371.0 | 344.3 | 316.7 | 288.5 | 262.4 | 237.3 | 215.1 | 192.5 | 172.9 | 154.3 |
| 12.5° | 428.8 | 395.6 | 362.9 | 328.2 | 296.6 | 263.4 | 232.2 | 205.6 | 178.9 | 156.8 | 137.7 |
| 15° | 457.4 | 419.2 | 380.0 | 339.8 | 299.6 | 261.9 | 227.2 | 194.0 | 166.9 | 141.8 | 120.1 |
| 17.5° | 480.5 | 436.8 | 392.6 | 347.3 | 304.1 | 259.9 | 220.7 | 186.0 | 154.3 | 128.2 | 107.1 |
| 20° | 500.7 | 454.9 | 407.2 | 356.4 | 307.1 | 259.4 | 215.1 | 175.9 | 143.3 | 115.6 | 95.0 |
| 22.5° | 519.3 | 473.5 | 422.2 | 367.9 | 311.7 | 258.9 | 210.1 | 168.4 | 133.7 | 106.1 | 85.5 |
| 25° | 540.4 | 492.1 | 438.3 | 380.0 | 319.7 | 260.9 | 207.1 | 162.4 | 125.2 | 97.0 | 77.9 |
| 27.5° | 564.0 | 513.2 | 457.4 | 395.1 | 330.2 | 264.9 | 206.1 | 155.8 | 117.6 | 88.5 | 71.9 |
| 30° | 597.2 | 538.4 | 476.5 | 410.2 | 339.8 | 269.4 | 205.1 | 151.8 | 110.1 | 81.9 | 65.8 |
| 32.5° | 626.3 | 563.0 | 497.6 | 425.8 | 350.4 | 274.0 | 204.6 | 146.3 | 103.0 | 75.4 | 61.3 |
| 35° | 657.0 | 585.6 | 515.7 | 440.8 | 359.4 | 279.0 | 204.1 | 142.3 | 96.5 | 68.9 | 56.8 |
| 37.5° | 683.6 | 604.7 | 529.8 | 453.9 | 369.5 | 283.5 | 204.6 | 138.7 | 90.5 | 63.3 | 52.8 |
| 40° | 706.2 | 624.3 | 545.4 | 466.0 | 380.0 | 290.5 | 205.1 | 135.2 | 84.4 | 58.3 | 49.3 |
| 42.5° | 726.3 | 642.9 | 562.0 | 479.5 | 392.1 | 298.6 | 208.1 | 132.2 | 79.4 | 53.8 | 45.7 |
| 45° | 741.9 | 660.0 | 580.1 | 498.6 | 411.7 | 311.7 | 213.6 | 130.2 | 74.4 | 49.8 | 42.7 |
| 47.5° | 758.0 | 685.1 | 610.7 | 528.8 | 440.3 | 332.3 | 223.2 | 129.7 | 70.4 | 46.7 | 40.2 |
| 50° | 780.1 | 710.3 | 637.9 | 559.5 | 466.5 | 353.4 | 234.7 | 130.2 | 65.3 | 43.7 | 37.7 |
| 52.5° | 796.2 | 735.9 | 673.1 | 612.7 | 528.8 | 417.7 | 279.5 | 139.2 | 62.8 | 41.2 | 34.7 |
| 55° | 891.2 | 880.7 | 882.2 | 892.2 | 827.4 | 710.8 | 467.5 | 201.1 | 73.9 | 46.7 | 34.2 |
| 57.5° | 1256.7 | 1293.9 | 1315.5 | 1315.0 | 1207.9 | 1001.8 | 627.8 | 258.4 | 82.4 | 54.3 | 40.7 |
| 60° | 1737.2 | 1709.1 | 1669.3 | 1571.3 | 1429.1 | 1143.6 | 702.2 | 278.0 | 71.4 | 43.2 | 37.2 |
| 62.5° | 2162.0 | 1997.1 | 1850.8 | 1692.0 | 1505.5 | 1192.8 | 717.3 | 276.5 | 62.3 | 32.7 | 26.1 |
| 65° | 2426.9 | 2130.3 | 1894.0 | 1695.0 | 1475.3 | 1151.6 | 678.6 | 253.8 | 52.8 | 26.6 | 21.6 |
| 67.5° | 2490.2 | 2058.4 | 1724.1 | 1470.3 | 1232.5 | 896.2 | 498.1 | 191.0 | 41.2 | 22.1 | 19.1 |
| 69° | 2352.0 | 1829.7 | 1428.6 | 1140.5 | 896.7 | 594.6 | 308.1 | 120.6 | 31.7 | 20.1 | 17.6 |
| 70° | 2163.5 | 1591.4 | 1163.7 | 915.3 | 664.0 | 417.7 | 215.6 | 84.9 | 25.6 | 18.6 | 16.1 |
| 72.5° | 1391.9 | 835.9 | 572.0 | 398.1 | 274.0 | 166.4 | 84.4 | 38.2 | 19.6 | 15.6 | 13.1 |
| 75° | 539.9 | 309.1 | 224.2 | 170.4 | 133.2 | 92.5 | 51.3 | 24.6 | 16.6 | 13.1 | 10.1 |
| 77.5° | 265.9 | 203.6 | 166.4 | 114.1 | 66.4 | 41.2 | 27.6 | 19.1 | 13.6 | 9.6 | 6.5 |
| 80° | 210.1 | 139.7 | 83.4 | 51.8 | 39.2 | 29.7 | 21.1 | 15.6 | 10.1 | 6.0 | 4.5 |
| 82.5° | 107.6 | 58.8 | 43.2 | 35.2 | 29.2 | 23.1 | 17.1 | 11.1 | 6.5 | 4.0 | 3.5 |
| 85° | 33.7 | 24.6 | 22.1 | 21.6 | 20.1 | 16.6 | 12.1 | 7.0 | 4.0 | 2.5 | 2.5 |
| 87.5° | 2.5 | 3.5 | 4.5 | 3.5 | 4.0 | 3.5 | 4.5 | 3.0 | 2.0 | 2.0 | 1.5 |
| 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: P151644

CATALOG NUMBER: VWM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 | 231.7 |
| 2.5° | 211.1 | 205.1 | 199.6 | 196.0 | 189.5 | 187.0 | 184.5 | 183.5 | 178.9 | 180.0 | 175.9 |
| 5° | 184.5 | 173.9 | 165.9 | 157.8 | 150.3 | 144.8 | 140.2 | 134.7 | 130.2 | 128.2 | 124.2 |
| 7.5° | 160.3 | 146.8 | 136.2 | 127.7 | 118.6 | 111.6 | 105.6 | 101.5 | 97.5 | 93.5 | 91.5 |
| 10° | 139.2 | 124.7 | 112.6 | 104.1 | 95.5 | 89.5 | 84.9 | 81.9 | 79.4 | 77.9 | 77.4 |
| 12.5° | 119.6 | 105.6 | 94.5 | 87.0 | 80.4 | 77.4 | 75.4 | 73.9 | 73.4 | 72.9 | 72.9 |
| 15° | 104.6 | 90.5 | 81.9 | 76.4 | 73.4 | 71.9 | 71.4 | 70.4 | 69.4 | 68.9 | 68.9 |
| 17.5° | 90.5 | 79.9 | 73.9 | 70.9 | 69.4 | 68.4 | 67.4 | 66.4 | 65.3 | 64.8 | 64.8 |
| 20° | 80.9 | 72.4 | 69.4 | 67.4 | 65.8 | 64.8 | 63.3 | 62.3 | 61.8 | 61.3 | 60.8 |
| 22.5° | 73.4 | 67.9 | 65.8 | 64.3 | 62.3 | 60.8 | 59.8 | 58.8 | 57.8 | 57.3 | 56.8 |
| 25° | 67.9 | 64.3 | 62.8 | 60.8 | 58.8 | 57.3 | 55.8 | 54.3 | 53.3 | 52.8 | 51.8 |
| 27.5° | 63.8 | 61.3 | 59.3 | 56.8 | 54.8 | 53.3 | 51.8 | 50.3 | 49.3 | 48.3 | 47.8 |
| 30° | 60.3 | 57.8 | 55.3 | 53.3 | 50.8 | 49.3 | 47.3 | 45.7 | 45.2 | 44.2 | 43.2 |
| 32.5° | 56.8 | 54.3 | 51.8 | 49.3 | 46.7 | 44.7 | 43.7 | 41.7 | 40.7 | 40.2 | 39.2 |
| 35° | 52.8 | 50.3 | 47.3 | 45.2 | 42.7 | 40.7 | 39.2 | 37.7 | 36.7 | 35.7 | 35.2 |
| 37.5° | 49.3 | 46.2 | 43.2 | 40.7 | 38.7 | 36.7 | 35.2 | 33.7 | 32.7 | 31.7 | 31.2 |
| 40° | 45.2 | 42.2 | 39.2 | 36.7 | 34.7 | 33.2 | 31.7 | 30.2 | 29.2 | 28.7 | 28.7 |
| 42.5° | 41.7 | 38.2 | 35.2 | 33.2 | 31.7 | 29.7 | 28.1 | 26.6 | 26.1 | 25.6 | 26.1 |
| 45° | 38.2 | 34.7 | 32.2 | 30.2 | 28.7 | 26.6 | 25.1 | 24.1 | 23.6 | 24.1 | 24.6 |
| 47.5° | 35.2 | 31.7 | 29.2 | 27.6 | 26.1 | 24.6 | 23.1 | 22.1 | 22.1 | 23.1 | 24.1 |
| 50° | 32.2 | 28.7 | 26.6 | 25.6 | 24.1 | 22.6 | 20.6 | 20.1 | 20.6 | 21.6 | 22.6 |
| 52.5° | 29.2 | 25.1 | 23.6 | 23.1 | 21.6 | 20.1 | 18.6 | 18.1 | 18.6 | 19.6 | 19.1 |
| 55° | 26.1 | 22.1 | 21.6 | 21.1 | 19.6 | 17.6 | 16.1 | 16.1 | 16.1 | 15.6 | 14.6 |
| 57.5° | 25.1 | 19.6 | 19.1 | 18.6 | 17.1 | 15.1 | 14.1 | 13.1 | 12.6 | 11.1 | 10.6 |
| 60° | 26.1 | 17.6 | 17.6 | 16.6 | 15.1 | 13.1 | 11.6 | 10.1 | 9.0 | 8.0 | 8.0 |
| 62.5° | 21.1 | 16.1 | 15.6 | 14.6 | 12.6 | 10.6 | 9.0 | 7.5 | 7.0 | 6.5 | 6.5 |
| 65° | 17.1 | 14.6 | 13.6 | 12.1 | 10.6 | 8.5 | 7.0 | 6.0 | 5.5 | 5.5 | 6.0 |
| 67.5° | 15.6 | 13.1 | 11.6 | 10.1 | 8.5 | 6.5 | 5.5 | 5.0 | 5.0 | 5.5 | 5.5 |
| 69° | 14.6 | 12.1 | 10.6 | 9.0 | 7.5 | 6.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.5 |
| 70° | 13.6 | 11.6 | 10.1 | 8.5 | 6.5 | 5.0 | 4.5 | 4.5 | 5.0 | 5.0 | 5.5 |
| 72.5° | 10.6 | 9.0 | 8.5 | 7.0 | 5.0 | 4.5 | 4.0 | 4.5 | 4.5 | 5.0 | 5.0 |
| 75° | 8.0 | 6.5 | 6.5 | 5.5 | 4.0 | 3.5 | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 |
| 77.5° | 5.5 | 4.5 | 4.5 | 4.0 | 3.5 | 3.0 | 3.0 | 3.5 | 4.0 | 4.0 | 4.5 |
| 80° | 4.0 | 3.5 | 3.0 | 3.5 | 3.0 | 2.5 | 3.0 | 3.5 | 3.5 | 4.0 | 4.0 |
| 82.5° | 3.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 4.0 | 4.0 |
| 85° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 |
| 87.5° | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 231.7 | 231.7 | 231.7 | 231.7 |
| 2.5° | 174.9 | 174.4 | 172.4 | 172.9 |
| 5° | 122.6 | 119.6 | 121.6 | 121.1 |
| 7.5° | 90.0 | 89.5 | 89.0 | 90.0 |
| 10° | 76.9 | 76.9 | 76.4 | 76.9 |
| 12.5° | 72.4 | 72.4 | 72.4 | 72.4 |
| 15° | 68.9 | 68.9 | 68.4 | 68.4 |
| 17.5° | 64.8 | 64.8 | 64.8 | 64.3 |
| 20° | 60.8 | 60.3 | 60.3 | 60.3 |
| 22.5° | 56.3 | 55.8 | 55.8 | 55.8 |
| 25° | 51.8 | 51.3 | 51.3 | 51.3 |
| 27.5° | 47.3 | 46.7 | 46.2 | 46.2 |
| 30° | 42.7 | 42.2 | 41.7 | 41.7 |
| 32.5° | 38.2 | 37.7 | 37.2 | 37.2 |
| 35° | 34.2 | 34.2 | 33.7 | 33.2 |
| 37.5° | 30.7 | 30.7 | 30.7 | 30.7 |
| 40° | 28.1 | 28.7 | 28.7 | 28.7 |
| 42.5° | 26.6 | 27.1 | 27.6 | 28.1 |
| 45° | 25.6 | 26.6 | 27.1 | 27.1 |
| 47.5° | 25.1 | 25.6 | 26.1 | 26.1 |
| 50° | 23.1 | 22.6 | 22.6 | 22.6 |
| 52.5° | 18.6 | 17.6 | 17.1 | 16.6 |
| 55° | 13.6 | 13.1 | 12.1 | 12.1 |
| 57.5° | 9.6 | 9.6 | 9.0 | 9.0 |
| 60° | 7.5 | 7.5 | 7.0 | 7.5 |
| 62.5° | 6.5 | 6.5 | 6.5 | 6.5 |
| 65° | 6.0 | 6.0 | 6.0 | 6.0 |
| 67.5° | 6.0 | 6.0 | 6.0 | 6.0 |
| 69° | 5.5 | 5.5 | 5.5 | 5.5 |
| 70° | 5.5 | 5.5 | 5.5 | 5.5 |
| 72.5° | 5.0 | 5.0 | 5.0 | 5.0 |
| 75° | 4.5 | 5.0 | 5.0 | 5.0 |
| 77.5° | 4.5 | 4.5 | 4.5 | 4.5 |
| 80° | 4.0 | 4.0 | 4.5 | 4.5 |
| 82.5° | 4.0 | 4.0 | 4.0 | 4.0 |
| 85° | 3.5 | 3.5 | 4.0 | 4.0 |
| 87.5° | 3.0 | 3.0 | 3.5 | 3.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)