

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: P162652

Luminaire Tested: **EMM-F03-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162652  
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: EMM-F03-LED-E1-SL4-HSS  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4791.2 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

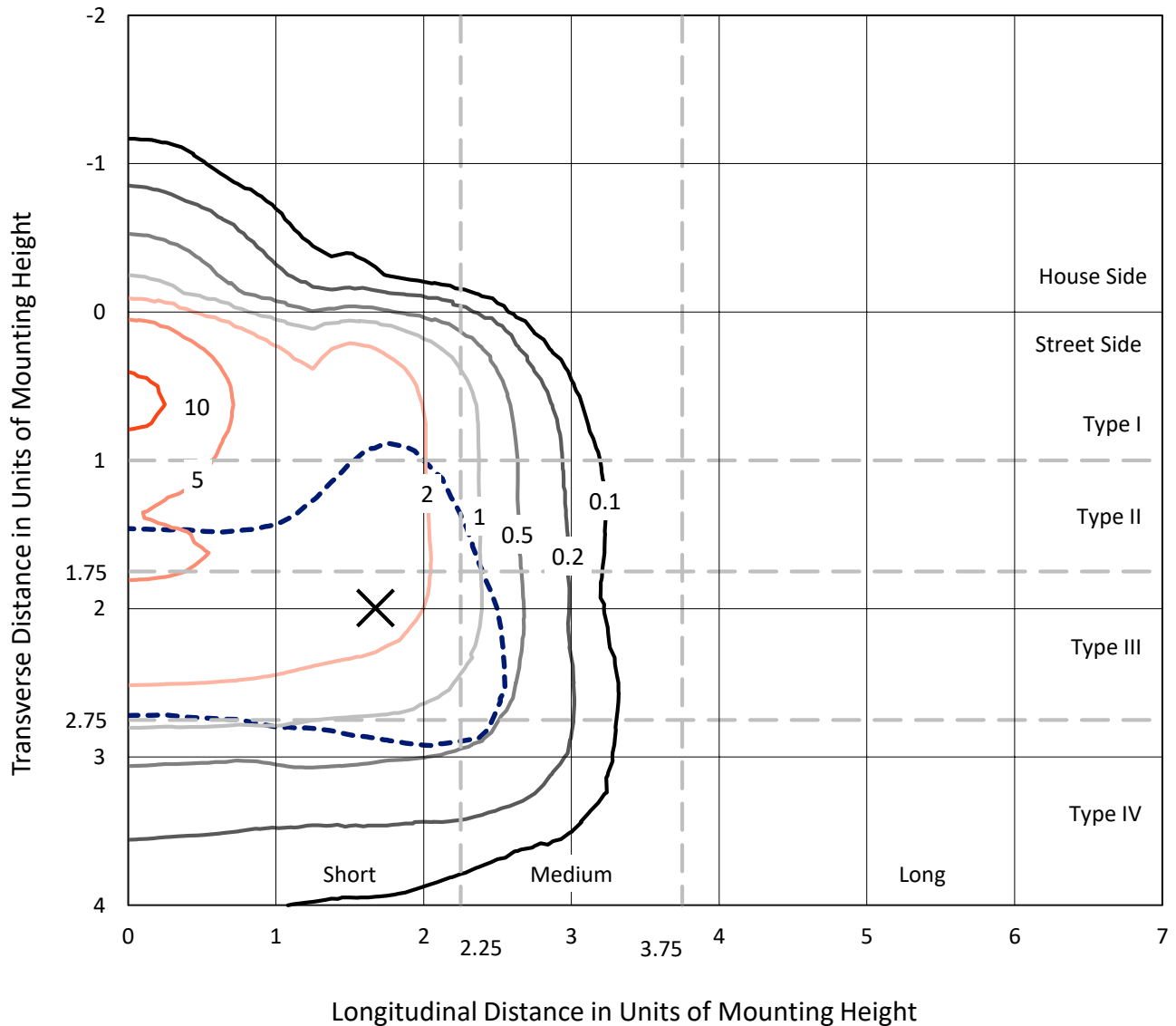


REPORT NUMBER: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

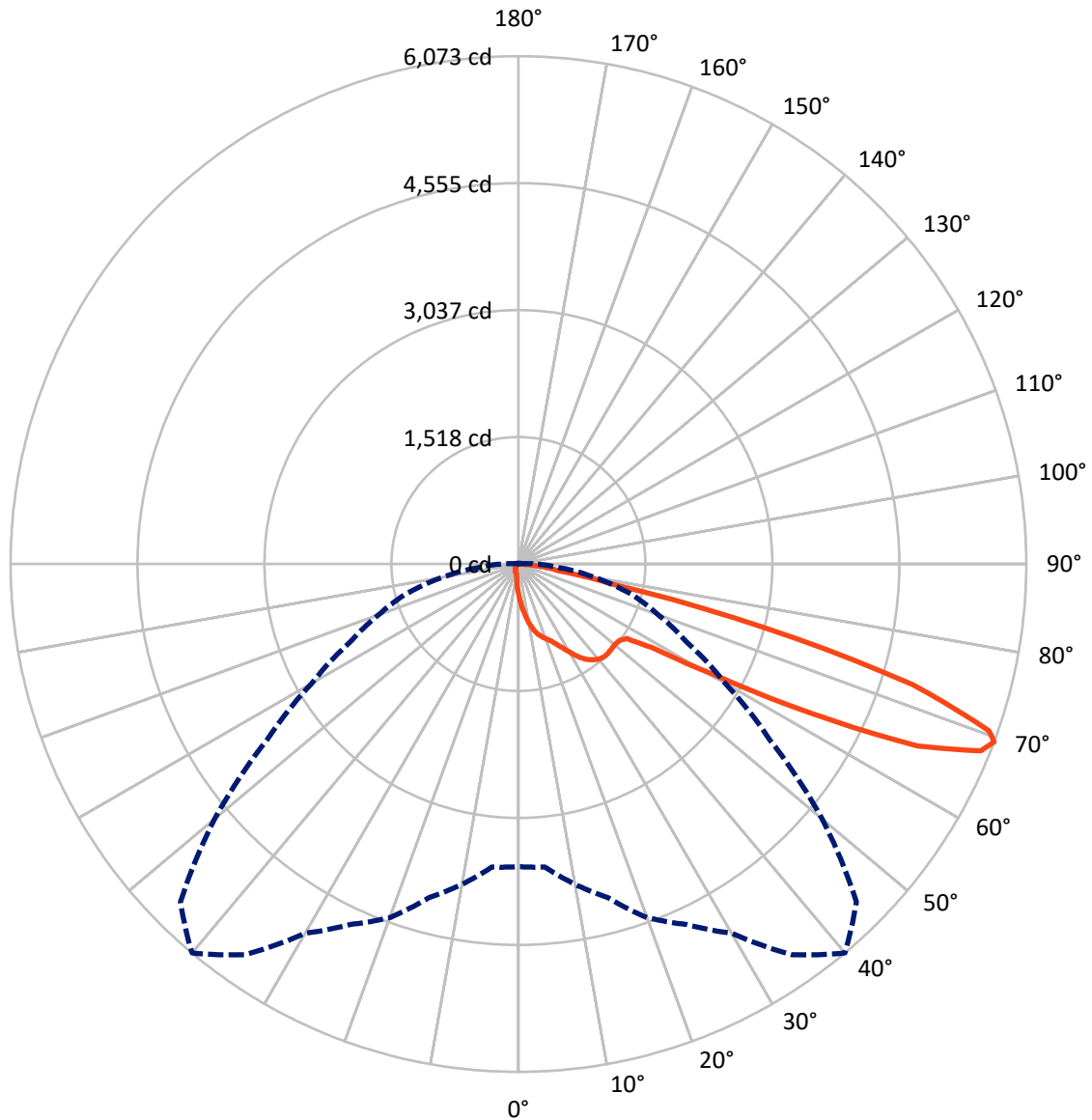


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

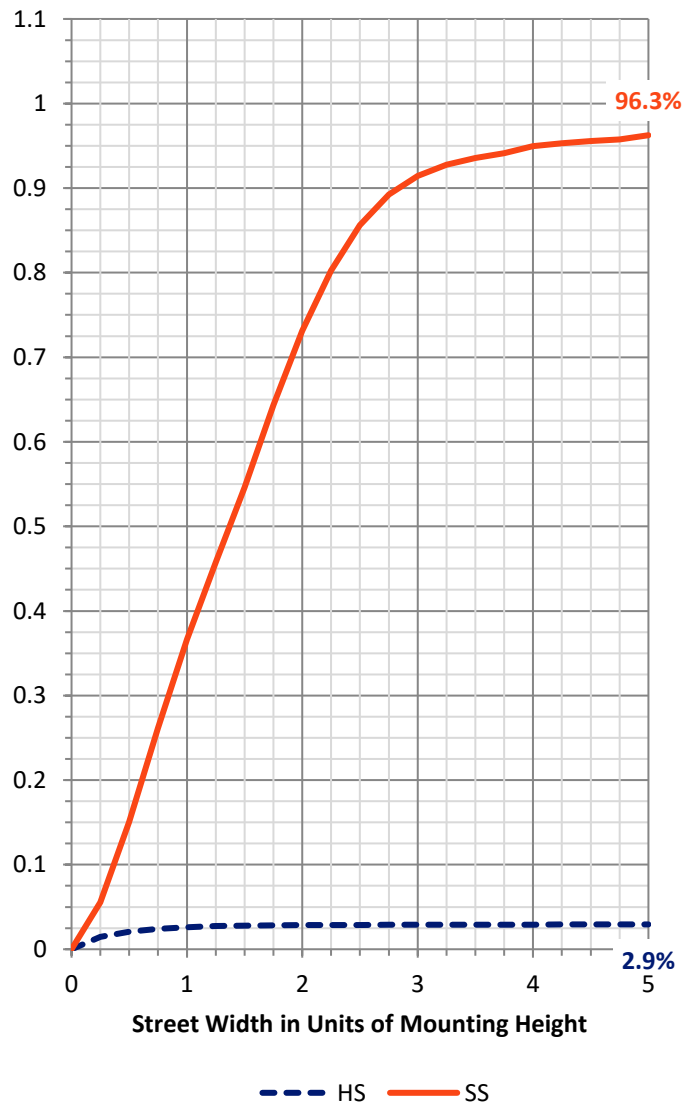
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 142.7    | 0.0    | 142.7  |
|                    | % Fixture | 3.0      | 0.0    | 3.0    |
| <b>Street Side</b> | Lumens    | 4648.5   | 0.0    | 4648.5 |
|                    | % Fixture | 97.0     | 0.0    | 97.0   |
| <b>Total</b>       | Lumens    | 4791.2   | 0.0    | 4791.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 0.8       |
| 10°-20°   | 128.2  | 2.7       |
| 20°-30°   | 245.4  | 5.1       |
| 30°-40°   | 408.1  | 8.5       |
| 40°-50°   | 552.3  | 11.5      |
| 50°-60°   | 863.7  | 18.0      |
| 60°-70°   | 1775.7 | 37.1      |
| 70°-80°   | 714.5  | 14.9      |
| 80°-90°   | 66.1   | 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°    | 4791.2 | 100.0     |
| 0°-180°   | 4791.2 | 100.0     |



REPORT NUMBER: P162652

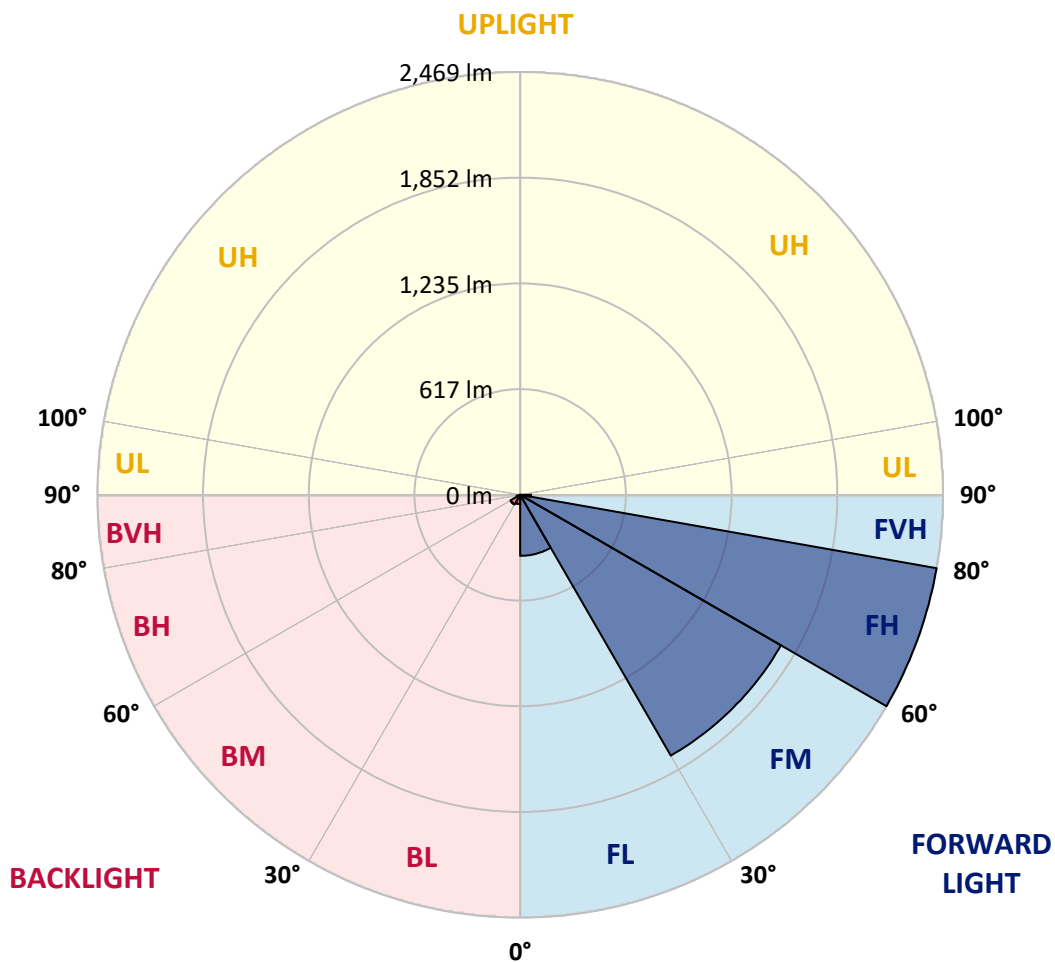
CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 356.6  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1758.9 | 36.7      |                         |      |         |
| FH   | (60°-80°)   | 2469.4 | 51.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 63.6   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 54.3   | 1.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 65.1   | 1.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 20.8   | 0.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.5    | 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





REPORT NUMBER: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  |
| 2.5°  | 482.7  | 477.2  | 471.0  | 471.0  | 463.0  | 463.0  | 458.3  | 445.8  | 444.2  | 437.2  | 430.1  |
| 5°    | 616.1  | 611.4  | 603.5  | 596.5  | 590.3  | 579.3  | 571.4  | 556.5  | 540.0  | 524.3  | 510.2  |
| 7.5°  | 746.4  | 744.0  | 729.9  | 727.6  | 717.4  | 699.3  | 683.6  | 661.7  | 633.4  | 611.4  | 585.5  |
| 10°   | 867.3  | 861.8  | 858.6  | 845.3  | 830.4  | 810.7  | 786.5  | 759.7  | 726.8  | 692.3  | 655.4  |
| 12.5° | 963.1  | 959.9  | 945.8  | 940.3  | 924.6  | 904.9  | 874.3  | 839.8  | 806.9  | 762.1  | 718.9  |
| 15°   | 1034.5 | 1028.9 | 1019.5 | 1010.9 | 992.1  | 974.8  | 946.5  | 908.9  | 868.9  | 820.2  | 768.4  |
| 17.5° | 1094.2 | 1083.9 | 1081.5 | 1068.2 | 1048.6 | 1028.2 | 996.8  | 962.2  | 915.2  | 866.5  | 810.0  |
| 20°   | 1174.1 | 1160.0 | 1155.3 | 1135.7 | 1113.0 | 1084.7 | 1048.6 | 1005.4 | 956.0  | 902.6  | 844.5  |
| 22.5° | 1268.3 | 1258.2 | 1247.9 | 1230.7 | 1201.6 | 1161.6 | 1109.0 | 1062.0 | 999.1  | 940.3  | 877.5  |
| 25°   | 1401.8 | 1393.2 | 1376.6 | 1353.1 | 1317.0 | 1269.2 | 1205.6 | 1136.5 | 1062.7 | 987.4  | 913.6  |
| 27.5° | 1531.3 | 1523.4 | 1511.7 | 1493.6 | 1452.8 | 1400.3 | 1321.7 | 1233.8 | 1140.5 | 1049.4 | 967.8  |
| 30°   | 1652.9 | 1645.8 | 1634.1 | 1616.0 | 1580.0 | 1528.1 | 1439.5 | 1345.3 | 1229.1 | 1123.1 | 1025.1 |
| 32.5° | 1784.0 | 1781.6 | 1768.4 | 1742.4 | 1711.1 | 1641.1 | 1544.6 | 1443.3 | 1325.6 | 1203.2 | 1088.6 |
| 35°   | 1932.4 | 1914.3 | 1901.8 | 1875.8 | 1822.5 | 1747.9 | 1634.9 | 1524.2 | 1400.3 | 1274.6 | 1146.7 |
| 37.5° | 2058.0 | 2040.7 | 2025.0 | 1992.0 | 1926.9 | 1831.9 | 1704.0 | 1582.3 | 1454.4 | 1326.5 | 1196.2 |
| 40°   | 2149.7 | 2141.2 | 2122.3 | 2079.2 | 2006.1 | 1893.1 | 1755.0 | 1622.3 | 1493.6 | 1364.9 | 1236.1 |
| 42.5° | 2218.0 | 2204.7 | 2183.5 | 2138.8 | 2052.4 | 1923.7 | 1775.4 | 1638.8 | 1511.7 | 1388.5 | 1262.1 |
| 45°   | 2243.2 | 2232.2 | 2212.6 | 2163.9 | 2070.5 | 1932.4 | 1774.6 | 1634.1 | 1512.4 | 1395.5 | 1279.3 |
| 47.5° | 2228.3 | 2217.3 | 2200.0 | 2154.5 | 2062.7 | 1922.2 | 1760.5 | 1620.8 | 1504.6 | 1397.9 | 1295.1 |
| 50°   | 2178.8 | 2172.5 | 2159.2 | 2120.8 | 2038.3 | 1902.5 | 1747.9 | 1613.7 | 1503.0 | 1409.7 | 1317.0 |
| 52.5° | 2174.1 | 2170.2 | 2153.7 | 2115.2 | 2031.3 | 1896.2 | 1746.3 | 1617.6 | 1516.4 | 1424.5 | 1332.7 |
| 55°   | 2656.8 | 2601.1 | 2476.2 | 2370.3 | 2196.1 | 1988.9 | 1825.6 | 1681.2 | 1572.9 | 1483.4 | 1419.1 |
| 57.5° | 3776.0 | 3692.8 | 3528.8 | 3327.1 | 2926.8 | 2533.6 | 2218.8 | 1991.2 | 1879.0 | 1838.2 | 1862.5 |
| 60°   | 4300.3 | 4285.4 | 4259.5 | 4163.8 | 3958.9 | 3620.7 | 3243.9 | 2836.5 | 2673.3 | 2659.2 | 2708.6 |
| 62.5° | 4549.1 | 4539.7 | 4547.6 | 4535.8 | 4472.2 | 4373.3 | 4265.0 | 4089.2 | 3927.5 | 3823.2 | 3601.8 |
| 65°   | 4663.7 | 4670.0 | 4714.7 | 4750.1 | 4757.9 | 4783.8 | 4863.1 | 5082.1 | 5242.2 | 4973.0 | 4358.4 |
| 67.5° | 4372.6 | 4409.5 | 4512.2 | 4640.9 | 4791.7 | 4937.6 | 5173.2 | 5634.6 | 5963.5 | 5647.2 | 4774.4 |
| 69°   | 3619.8 | 3637.9 | 3889.0 | 4131.6 | 4499.7 | 4757.2 | 5098.5 | 5703.7 | 6073.4 | 5716.3 | 4741.4 |
| 70°   | 2849.9 | 2866.4 | 3135.6 | 3465.2 | 4087.7 | 4418.9 | 4865.5 | 5586.7 | 5970.5 | 5624.4 | 4571.9 |
| 72.5° | 1285.6 | 1262.1 | 1357.1 | 1533.7 | 2210.2 | 2736.0 | 3517.1 | 4526.4 | 4925.9 | 4506.0 | 3420.5 |
| 75°   | 897.9  | 887.7  | 897.9  | 898.7  | 1003.8 | 1295.1 | 1634.1 | 2453.5 | 3034.3 | 2618.3 | 1634.1 |
| 77.5° | 695.4  | 688.3  | 681.3  | 673.5  | 686.0  | 768.4  | 801.3  | 870.4  | 1130.2 | 1069.0 | 623.2  |
| 80°   | 550.2  | 543.9  | 561.2  | 555.7  | 555.7  | 565.1  | 558.8  | 533.0  | 484.3  | 448.9  | 401.9  |
| 82.5° | 255.8  | 257.4  | 257.4  | 279.4  | 336.7  | 393.2  | 411.3  | 385.4  | 342.2  | 291.2  | 234.7  |
| 85°   | 24.4   | 27.5   | 46.3   | 71.4   | 142.1  | 160.2  | 160.9  | 133.4  | 133.4  | 105.2  | 84.8   |
| 87.5° | 0.0    | 0.8    | 0.8    | 0.8    | 7.1    | 19.6   | 16.5   | 4.7    | 2.4    | 2.4    | 4.0    |
| 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: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°   | 95°   | 100°  | 105°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5°  | 417.6  | 415.2  | 405.7  | 396.3  | 387.7  | 378.3  | 369.7  | 361.0 | 351.6 | 344.6 | 335.9 |
| 5°    | 488.2  | 471.0  | 451.3  | 432.5  | 413.7  | 394.0  | 373.6  | 355.6 | 336.7 | 319.5 | 303.0 |
| 7.5°  | 559.6  | 525.9  | 499.2  | 465.4  | 434.8  | 404.2  | 375.9  | 346.9 | 320.2 | 295.1 | 271.6 |
| 10°   | 620.1  | 579.3  | 537.7  | 494.5  | 450.5  | 409.7  | 370.5  | 335.9 | 300.6 | 270.0 | 241.0 |
| 12.5° | 669.5  | 617.7  | 566.6  | 512.5  | 463.0  | 411.3  | 362.7  | 321.0 | 279.4 | 244.9 | 215.0 |
| 15°   | 714.2  | 654.6  | 593.4  | 530.6  | 467.8  | 408.9  | 354.7  | 303.0 | 260.6 | 221.3 | 187.6 |
| 17.5° | 750.3  | 682.0  | 613.0  | 542.4  | 474.8  | 405.7  | 344.6  | 290.4 | 241.0 | 200.1 | 167.2 |
| 20°   | 781.8  | 710.3  | 635.7  | 556.5  | 479.5  | 405.0  | 335.9  | 274.7 | 223.7 | 180.5 | 148.3 |
| 22.5° | 810.7  | 739.3  | 659.3  | 574.6  | 486.6  | 404.2  | 328.1  | 262.9 | 208.8 | 165.6 | 133.4 |
| 25°   | 843.8  | 768.4  | 684.4  | 593.4  | 499.2  | 407.3  | 323.4  | 253.5 | 195.4 | 151.5 | 121.7 |
| 27.5° | 880.7  | 801.3  | 714.2  | 616.9  | 515.6  | 413.7  | 321.8  | 243.3 | 183.7 | 138.1 | 112.3 |
| 30°   | 932.4  | 840.6  | 744.0  | 640.4  | 530.6  | 420.7  | 320.2  | 237.0 | 171.9 | 128.0 | 102.8 |
| 32.5° | 977.9  | 879.1  | 777.1  | 664.8  | 547.1  | 427.8  | 319.5  | 228.4 | 160.9 | 117.7 | 95.8  |
| 35°   | 1025.8 | 914.4  | 805.3  | 688.3  | 561.2  | 435.6  | 318.7  | 222.1 | 150.7 | 107.6 | 88.7  |
| 37.5° | 1067.4 | 944.2  | 827.3  | 708.7  | 576.9  | 442.6  | 319.5  | 216.6 | 141.2 | 98.9  | 82.4  |
| 40°   | 1102.7 | 974.8  | 851.6  | 727.6  | 593.4  | 453.6  | 320.2  | 211.2 | 131.8 | 91.1  | 76.9  |
| 42.5° | 1134.1 | 1003.8 | 877.5  | 748.8  | 612.2  | 466.3  | 324.9  | 206.4 | 124.0 | 84.0  | 71.4  |
| 45°   | 1158.5 | 1030.5 | 905.8  | 778.6  | 642.8  | 486.6  | 333.6  | 203.2 | 116.2 | 77.7  | 66.7  |
| 47.5° | 1183.6 | 1069.8 | 953.6  | 825.7  | 687.6  | 518.8  | 348.5  | 202.5 | 109.9 | 73.0  | 62.8  |
| 50°   | 1218.1 | 1109.0 | 996.0  | 873.6  | 728.4  | 551.8  | 366.5  | 203.2 | 102.0 | 68.3  | 58.9  |
| 52.5° | 1243.2 | 1149.0 | 1051.0 | 956.8  | 825.7  | 652.2  | 436.4  | 217.4 | 98.1  | 64.4  | 54.2  |
| 55°   | 1391.6 | 1375.1 | 1377.5 | 1393.2 | 1291.9 | 1109.8 | 729.9  | 313.9 | 115.4 | 73.0  | 53.4  |
| 57.5° | 1962.2 | 2020.3 | 2054.0 | 2053.2 | 1886.1 | 1564.3 | 980.3  | 403.4 | 128.7 | 84.8  | 63.6  |
| 60°   | 2712.5 | 2668.6 | 2606.6 | 2453.5 | 2231.4 | 1785.6 | 1096.5 | 434.1 | 111.4 | 67.5  | 58.1  |
| 62.5° | 3375.7 | 3118.3 | 2889.9 | 2641.9 | 2350.7 | 1862.5 | 1120.0 | 431.7 | 97.3  | 51.0  | 40.8  |
| 65°   | 3789.4 | 3326.3 | 2957.4 | 2646.6 | 2303.6 | 1798.2 | 1059.6 | 396.3 | 82.4  | 41.6  | 33.8  |
| 67.5° | 3888.3 | 3214.1 | 2692.1 | 2295.8 | 1924.5 | 1399.4 | 777.8  | 298.3 | 64.4  | 34.5  | 29.8  |
| 69°   | 3672.4 | 2857.0 | 2230.7 | 1780.9 | 1400.3 | 928.5  | 481.1  | 188.4 | 49.4  | 31.4  | 27.5  |
| 70°   | 3378.1 | 2484.9 | 1817.0 | 1429.2 | 1036.9 | 652.2  | 336.7  | 132.7 | 40.0  | 29.1  | 25.1  |
| 72.5° | 2173.4 | 1305.2 | 893.2  | 621.6  | 427.8  | 259.8  | 131.8  | 59.7  | 30.6  | 24.4  | 20.4  |
| 75°   | 842.9  | 482.7  | 350.0  | 266.1  | 208.0  | 144.4  | 80.1   | 38.5  | 25.9  | 20.4  | 15.7  |
| 77.5° | 415.2  | 317.9  | 259.8  | 178.1  | 103.6  | 64.4   | 43.2   | 29.8  | 21.2  | 14.9  | 10.2  |
| 80°   | 328.1  | 218.2  | 130.3  | 80.8   | 61.3   | 46.3   | 32.9   | 24.4  | 15.7  | 9.4   | 7.1   |
| 82.5° | 168.0  | 91.8   | 67.5   | 55.0   | 45.5   | 36.1   | 26.7   | 17.3  | 10.2  | 6.3   | 5.5   |
| 85°   | 52.6   | 38.5   | 34.5   | 33.8   | 31.4   | 25.9   | 18.8   | 11.0  | 6.3   | 4.0   | 4.0   |
| 87.5° | 4.0    | 5.5    | 7.1    | 5.5    | 6.3    | 5.5    | 7.1    | 4.7   | 3.1   | 3.1   | 2.4   |
| 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: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5°  | 329.6 | 320.2 | 311.6 | 306.1 | 295.9 | 292.0 | 288.0 | 286.5 | 279.4 | 281.0 | 274.7 |
| 5°    | 288.0 | 271.6 | 259.0 | 246.4 | 234.7 | 226.0 | 219.0 | 210.3 | 203.2 | 200.1 | 193.8 |
| 7.5°  | 250.4 | 229.2 | 212.7 | 199.4 | 185.2 | 174.3 | 164.9 | 158.6 | 152.2 | 146.0 | 142.8 |
| 10°   | 217.4 | 194.7 | 175.8 | 162.5 | 149.1 | 139.7 | 132.7 | 128.0 | 124.0 | 121.7 | 120.9 |
| 12.5° | 186.8 | 164.9 | 147.5 | 135.8 | 125.6 | 120.9 | 117.7 | 115.4 | 114.6 | 113.8 | 113.8 |
| 15°   | 163.3 | 141.2 | 128.0 | 119.3 | 114.6 | 112.3 | 111.4 | 109.9 | 108.3 | 107.6 | 107.6 |
| 17.5° | 141.2 | 124.8 | 115.4 | 110.7 | 108.3 | 106.7 | 105.2 | 103.6 | 102.0 | 101.2 | 101.2 |
| 20°   | 126.4 | 113.0 | 108.3 | 105.2 | 102.8 | 101.2 | 98.9  | 97.3  | 96.5  | 95.8  | 94.9  |
| 22.5° | 114.6 | 106.0 | 102.8 | 100.5 | 97.3  | 94.9  | 93.4  | 91.8  | 90.2  | 89.5  | 88.7  |
| 25°   | 106.0 | 100.5 | 98.1  | 94.9  | 91.8  | 89.5  | 87.1  | 84.8  | 83.2  | 82.4  | 80.8  |
| 27.5° | 99.6  | 95.8  | 92.6  | 88.7  | 85.5  | 83.2  | 80.8  | 78.5  | 76.9  | 75.4  | 74.5  |
| 30°   | 94.2  | 90.2  | 86.3  | 83.2  | 79.3  | 76.9  | 73.8  | 71.4  | 70.7  | 69.1  | 67.5  |
| 32.5° | 88.7  | 84.8  | 80.8  | 76.9  | 73.0  | 69.8  | 68.3  | 65.1  | 63.6  | 62.8  | 61.3  |
| 35°   | 82.4  | 78.5  | 73.8  | 70.7  | 66.7  | 63.6  | 61.3  | 58.9  | 57.3  | 55.7  | 55.0  |
| 37.5° | 76.9  | 72.2  | 67.5  | 63.6  | 60.4  | 57.3  | 55.0  | 52.6  | 51.0  | 49.4  | 48.6  |
| 40°   | 70.7  | 66.0  | 61.3  | 57.3  | 54.2  | 51.8  | 49.4  | 47.1  | 45.5  | 44.7  | 44.7  |
| 42.5° | 65.1  | 59.7  | 55.0  | 51.8  | 49.4  | 46.3  | 43.9  | 41.6  | 40.8  | 40.0  | 40.8  |
| 45°   | 59.7  | 54.2  | 50.2  | 47.1  | 44.7  | 41.6  | 39.2  | 37.6  | 36.9  | 37.6  | 38.5  |
| 47.5° | 55.0  | 49.4  | 45.5  | 43.2  | 40.8  | 38.5  | 36.1  | 34.5  | 34.5  | 36.1  | 37.6  |
| 50°   | 50.2  | 44.7  | 41.6  | 40.0  | 37.6  | 35.3  | 32.2  | 31.4  | 32.2  | 33.8  | 35.3  |
| 52.5° | 45.5  | 39.2  | 36.9  | 36.1  | 33.8  | 31.4  | 29.1  | 28.2  | 29.1  | 30.6  | 29.8  |
| 55°   | 40.8  | 34.5  | 33.8  | 32.9  | 30.6  | 27.5  | 25.1  | 25.1  | 25.1  | 24.4  | 22.8  |
| 57.5° | 39.2  | 30.6  | 29.8  | 29.1  | 26.7  | 23.5  | 22.0  | 20.4  | 19.6  | 17.3  | 16.5  |
| 60°   | 40.8  | 27.5  | 27.5  | 25.9  | 23.5  | 20.4  | 18.1  | 15.7  | 14.1  | 12.5  | 12.5  |
| 62.5° | 32.9  | 25.1  | 24.4  | 22.8  | 19.6  | 16.5  | 14.1  | 11.8  | 11.0  | 10.2  | 10.2  |
| 65°   | 26.7  | 22.8  | 21.2  | 18.8  | 16.5  | 13.4  | 11.0  | 9.4   | 8.7   | 8.7   | 9.4   |
| 67.5° | 24.4  | 20.4  | 18.1  | 15.7  | 13.4  | 10.2  | 8.7   | 7.8   | 7.8   | 8.7   | 8.7   |
| 69°   | 22.8  | 18.8  | 16.5  | 14.1  | 11.8  | 9.4   | 7.8   | 7.8   | 7.8   | 7.8   | 8.7   |
| 70°   | 21.2  | 18.1  | 15.7  | 13.4  | 10.2  | 7.8   | 7.1   | 7.1   | 7.8   | 7.8   | 8.7   |
| 72.5° | 16.5  | 14.1  | 13.4  | 11.0  | 7.8   | 7.1   | 6.3   | 7.1   | 7.1   | 7.8   | 7.8   |
| 75°   | 12.5  | 10.2  | 10.2  | 8.7   | 6.3   | 5.5   | 5.5   | 6.3   | 6.3   | 7.1   | 7.1   |
| 77.5° | 8.7   | 7.1   | 7.1   | 6.3   | 5.5   | 4.7   | 4.7   | 5.5   | 6.3   | 6.3   | 7.1   |
| 80°   | 6.3   | 5.5   | 4.7   | 5.5   | 4.7   | 4.0   | 4.7   | 5.5   | 5.5   | 6.3   | 6.3   |
| 82.5° | 4.7   | 4.7   | 4.7   | 4.7   | 4.0   | 4.0   | 4.7   | 4.7   | 5.5   | 6.3   | 6.3   |
| 85°   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.7   | 4.7   | 5.5   | 5.5   |
| 87.5° | 2.4   | 2.4   | 2.4   | 3.1   | 3.1   | 4.0   | 4.0   | 4.0   | 4.0   | 4.7   | 4.7   |
| 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: P162652

CATALOG NUMBER: EMM-F03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5°  | 273.2 | 272.3 | 269.2 | 270.0 |
| 5°    | 191.5 | 186.8 | 190.0 | 189.1 |
| 7.5°  | 140.5 | 139.7 | 138.9 | 140.5 |
| 10°   | 120.1 | 120.1 | 119.3 | 120.1 |
| 12.5° | 113.0 | 113.0 | 113.0 | 113.0 |
| 15°   | 107.6 | 107.6 | 106.7 | 106.7 |
| 17.5° | 101.2 | 101.2 | 101.2 | 100.5 |
| 20°   | 94.9  | 94.2  | 94.2  | 94.2  |
| 22.5° | 87.9  | 87.1  | 87.1  | 87.1  |
| 25°   | 80.8  | 80.1  | 80.1  | 80.1  |
| 27.5° | 73.8  | 73.0  | 72.2  | 72.2  |
| 30°   | 66.7  | 66.0  | 65.1  | 65.1  |
| 32.5° | 59.7  | 58.9  | 58.1  | 58.1  |
| 35°   | 53.4  | 53.4  | 52.6  | 51.8  |
| 37.5° | 47.9  | 47.9  | 47.9  | 47.9  |
| 40°   | 43.9  | 44.7  | 44.7  | 44.7  |
| 42.5° | 41.6  | 42.3  | 43.2  | 43.9  |
| 45°   | 40.0  | 41.6  | 42.3  | 42.3  |
| 47.5° | 39.2  | 40.0  | 40.8  | 40.8  |
| 50°   | 36.1  | 35.3  | 35.3  | 35.3  |
| 52.5° | 29.1  | 27.5  | 26.7  | 25.9  |
| 55°   | 21.2  | 20.4  | 18.8  | 18.8  |
| 57.5° | 14.9  | 14.9  | 14.1  | 14.1  |
| 60°   | 11.8  | 11.8  | 11.0  | 11.8  |
| 62.5° | 10.2  | 10.2  | 10.2  | 10.2  |
| 65°   | 9.4   | 9.4   | 9.4   | 9.4   |
| 67.5° | 9.4   | 9.4   | 9.4   | 9.4   |
| 69°   | 8.7   | 8.7   | 8.7   | 8.7   |
| 70°   | 8.7   | 8.7   | 8.7   | 8.7   |
| 72.5° | 7.8   | 7.8   | 7.8   | 7.8   |
| 75°   | 7.1   | 7.8   | 7.8   | 7.8   |
| 77.5° | 7.1   | 7.1   | 7.1   | 7.1   |
| 80°   | 6.3   | 6.3   | 7.1   | 7.1   |
| 82.5° | 6.3   | 6.3   | 6.3   | 6.3   |
| 85°   | 5.5   | 5.5   | 6.3   | 6.3   |
| 87.5° | 4.7   | 4.7   | 5.5   | 5.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)