

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: P162662

Luminaire Tested: **EMM-F04-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162662  
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-F04-LED-E1-SL4-HSS  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6388.3 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 102.2  
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

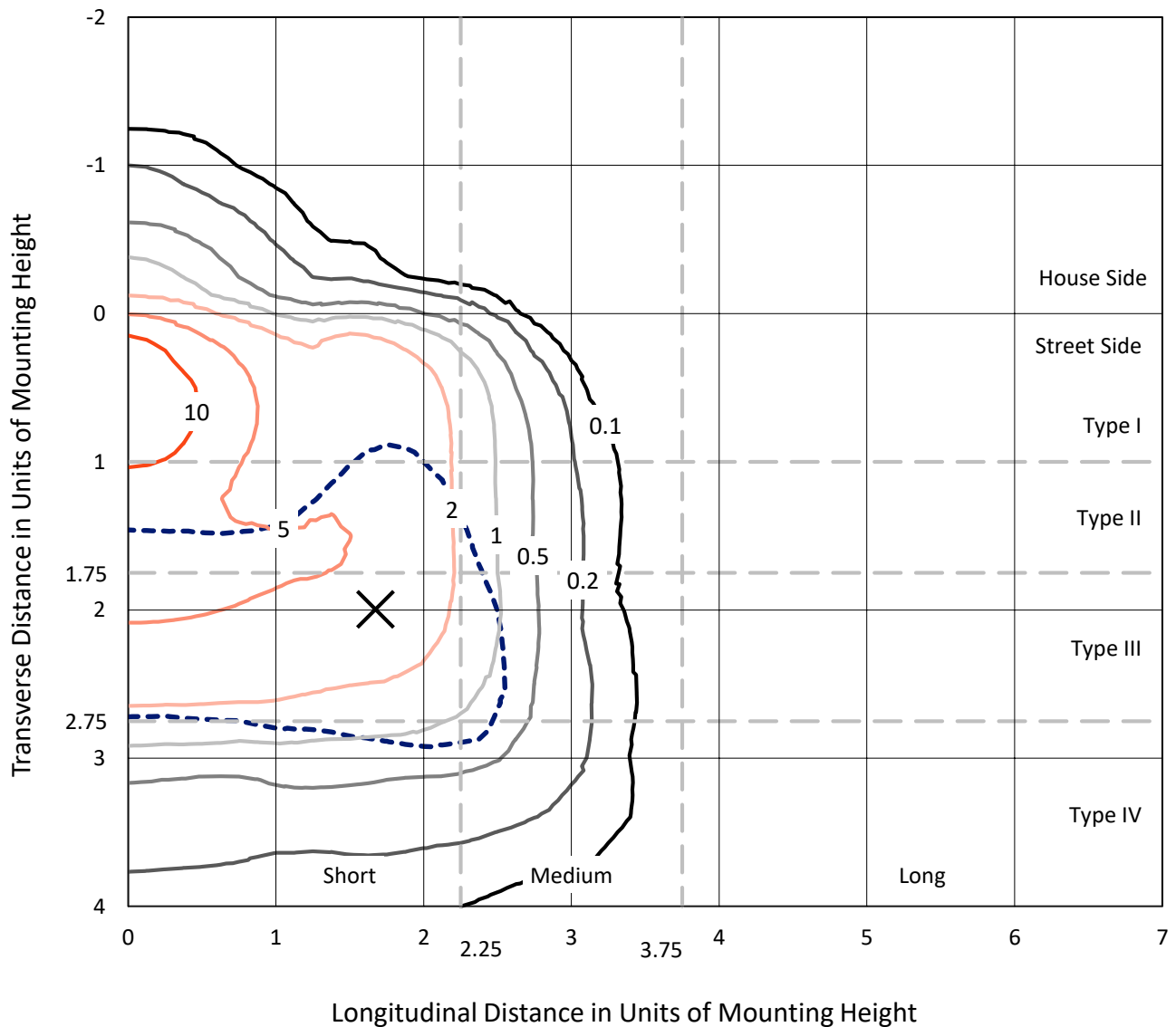


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

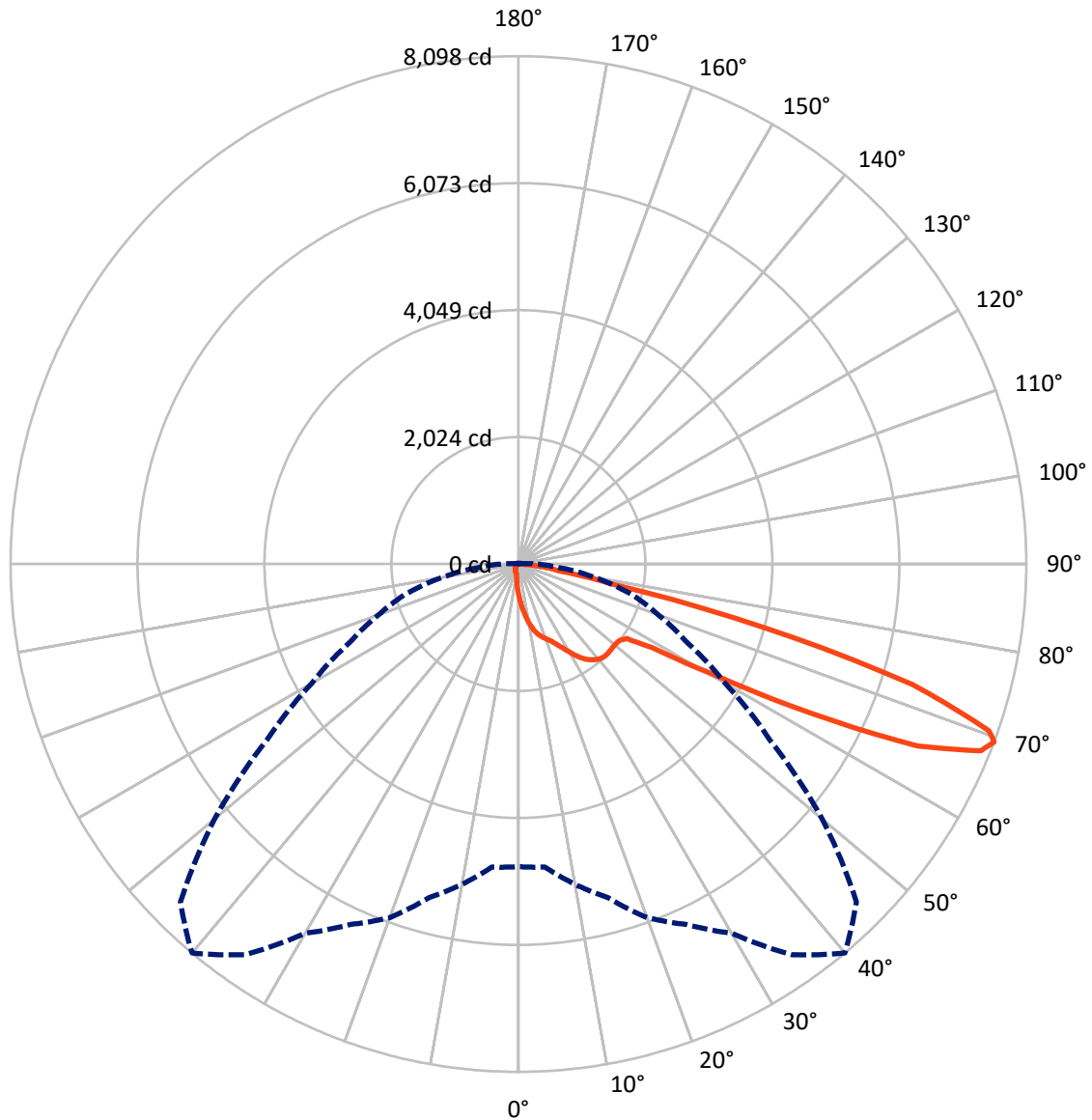


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - Semi-Cutoff

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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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 190.3    | 0.0    | 190.3  |
|                    | % Fixture | 3.0      | 0.0    | 3.0    |
| <b>Street Side</b> | Lumens    | 6198.1   | 0.0    | 6198.1 |
|                    | % Fixture | 97.0     | 0.0    | 97.0   |
| <b>Total</b>       | Lumens    | 6388.3   | 0.0    | 6388.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.6   | 0.8       |
| 10°-20°   | 171.0  | 2.7       |
| 20°-30°   | 327.2  | 5.1       |
| 30°-40°   | 544.2  | 8.5       |
| 40°-50°   | 736.4  | 11.5      |
| 50°-60°   | 1151.6 | 18.0      |
| 60°-70°   | 2367.6 | 37.1      |
| 70°-80°   | 952.7  | 14.9      |
| 80°-90°   | 88.2   | 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°    | 6388.3 | 100.0     |
| 0°-180°   | 6388.3 | 100.0     |



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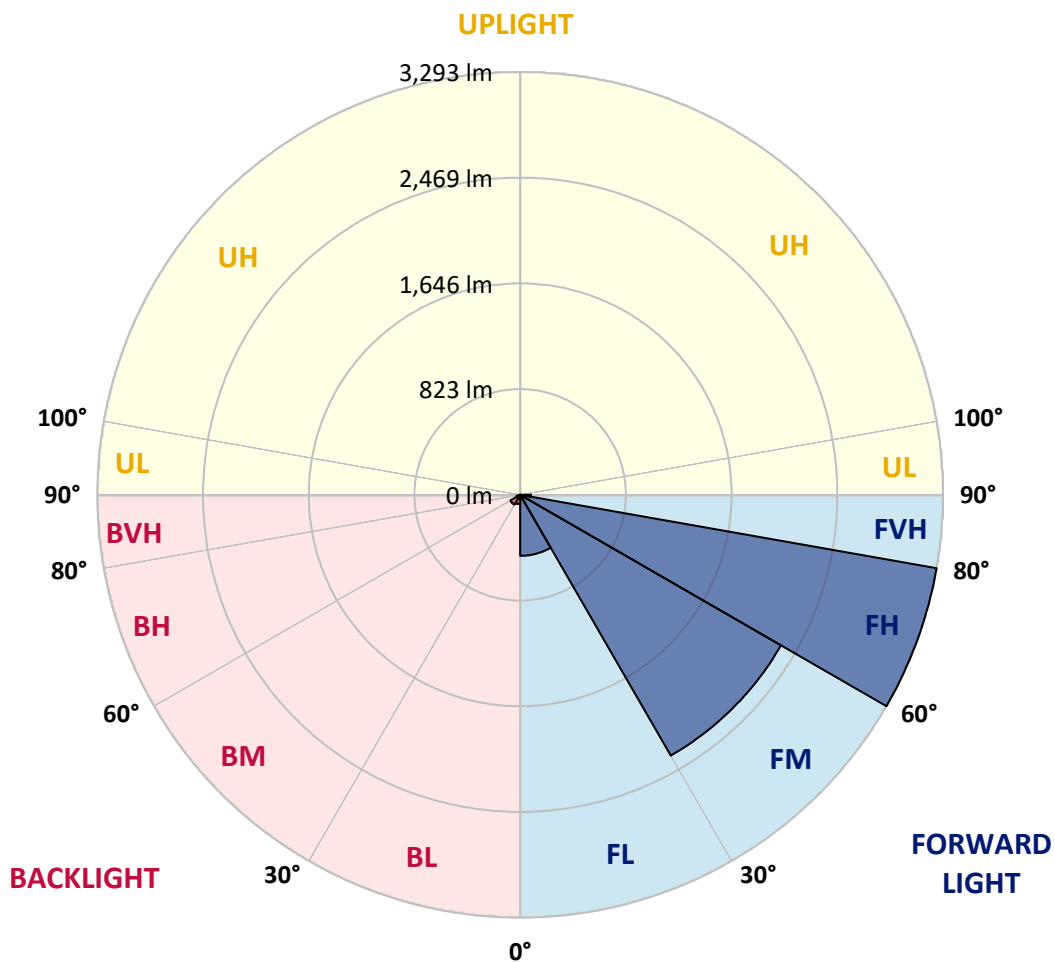
CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 475.4  | 7.4       |                         |      |         |
| FM (30°-60°)   | 2345.2 | 36.7      |                         |      |         |
| FH (60°-80°)   | 3292.6 | 51.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 84.9   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 72.4   | 1.1       | B0/110                  |      |         |
| BM (30°-60°)   | 86.9   | 1.4       | B0/220                  |      |         |
| BH (60°-80°)   | 27.8   | 0.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 3.3    | 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°    | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  |
| 2.5°  | 643.6  | 636.3  | 627.9  | 627.9  | 617.4  | 617.4  | 611.1  | 594.4  | 592.3  | 582.9  | 573.5  |
| 5°    | 821.5  | 815.2  | 804.7  | 795.4  | 787.0  | 772.4  | 761.9  | 742.0  | 720.0  | 699.1  | 680.2  |
| 7.5°  | 995.3  | 992.1  | 973.2  | 970.2  | 956.5  | 932.4  | 911.5  | 882.2  | 844.6  | 815.2  | 780.7  |
| 10°   | 1156.4 | 1149.0 | 1144.8 | 1127.1 | 1107.2 | 1081.0 | 1048.6 | 1013.0 | 969.1  | 923.0  | 873.8  |
| 12.5° | 1284.1 | 1279.9 | 1261.1 | 1253.7 | 1232.8 | 1206.6 | 1165.8 | 1119.7 | 1075.8 | 1016.2 | 958.6  |
| 15°   | 1379.3 | 1371.9 | 1359.4 | 1347.9 | 1322.8 | 1299.7 | 1262.1 | 1211.9 | 1158.5 | 1093.5 | 1024.5 |
| 17.5° | 1458.9 | 1445.2 | 1442.0 | 1424.3 | 1398.1 | 1370.9 | 1329.1 | 1283.0 | 1220.2 | 1155.3 | 1080.0 |
| 20°   | 1565.5 | 1546.7 | 1540.4 | 1514.2 | 1484.0 | 1446.3 | 1398.1 | 1340.5 | 1274.6 | 1203.5 | 1126.0 |
| 22.5° | 1691.1 | 1677.6 | 1663.9 | 1640.9 | 1602.2 | 1548.8 | 1478.7 | 1415.9 | 1332.2 | 1253.7 | 1169.9 |
| 25°   | 1869.1 | 1857.5 | 1835.5 | 1804.2 | 1756.1 | 1692.2 | 1607.5 | 1515.3 | 1416.9 | 1316.5 | 1218.1 |
| 27.5° | 2041.7 | 2031.2 | 2015.6 | 1991.5 | 1937.1 | 1867.0 | 1762.3 | 1645.1 | 1520.6 | 1399.2 | 1290.4 |
| 30°   | 2203.9 | 2194.5 | 2178.8 | 2154.7 | 2106.6 | 2037.5 | 1919.3 | 1793.7 | 1638.8 | 1497.5 | 1366.7 |
| 32.5° | 2378.7 | 2375.5 | 2357.8 | 2323.2 | 2281.4 | 2188.2 | 2059.5 | 1924.5 | 1767.5 | 1604.3 | 1451.5 |
| 35°   | 2576.5 | 2552.4 | 2535.7 | 2501.1 | 2430.0 | 2330.5 | 2179.8 | 2032.3 | 1867.0 | 1699.5 | 1529.0 |
| 37.5° | 2743.9 | 2720.9 | 2700.0 | 2656.0 | 2569.1 | 2442.6 | 2272.0 | 2109.7 | 1939.2 | 1768.6 | 1594.9 |
| 40°   | 2866.3 | 2854.9 | 2829.8 | 2772.2 | 2674.8 | 2524.1 | 2340.0 | 2163.1 | 1991.5 | 1819.9 | 1648.2 |
| 42.5° | 2957.4 | 2939.6 | 2911.4 | 2851.7 | 2736.6 | 2565.0 | 2367.2 | 2185.1 | 2015.6 | 1851.3 | 1682.8 |
| 45°   | 2990.9 | 2976.3 | 2950.1 | 2885.2 | 2760.7 | 2576.5 | 2366.2 | 2178.8 | 2016.6 | 1860.7 | 1705.8 |
| 47.5° | 2971.0 | 2956.4 | 2933.4 | 2872.6 | 2750.2 | 2562.9 | 2347.4 | 2161.0 | 2006.1 | 1863.8 | 1726.8 |
| 50°   | 2905.1 | 2896.7 | 2878.9 | 2827.7 | 2717.7 | 2536.7 | 2330.5 | 2151.6 | 2004.0 | 1879.6 | 1756.1 |
| 52.5° | 2898.8 | 2893.6 | 2871.6 | 2820.3 | 2708.4 | 2528.3 | 2328.4 | 2156.8 | 2021.9 | 1899.4 | 1777.0 |
| 55°   | 3542.4 | 3468.1 | 3301.7 | 3160.4 | 2928.1 | 2651.8 | 2434.2 | 2241.6 | 2097.2 | 1977.8 | 1892.1 |
| 57.5° | 5034.7 | 4923.8 | 4705.1 | 4436.2 | 3902.4 | 3378.2 | 2958.5 | 2655.0 | 2505.3 | 2450.9 | 2483.4 |
| 60°   | 5733.8 | 5713.8 | 5679.4 | 5551.7 | 5278.5 | 4827.6 | 4325.2 | 3782.0 | 3564.4 | 3545.6 | 3611.5 |
| 62.5° | 6065.5 | 6053.0 | 6063.4 | 6047.7 | 5962.9 | 5831.1 | 5686.7 | 5452.3 | 5236.7 | 5097.6 | 4802.4 |
| 65°   | 6218.3 | 6226.7 | 6286.3 | 6333.4 | 6343.9 | 6378.4 | 6484.1 | 6776.1 | 6989.6 | 6630.6 | 5811.3 |
| 67.5° | 5830.1 | 5879.3 | 6016.3 | 6187.9 | 6388.9 | 6583.5 | 6897.5 | 7512.8 | 7951.3 | 7529.6 | 6365.9 |
| 69°   | 4826.5 | 4850.6 | 5185.4 | 5508.8 | 5999.6 | 6342.9 | 6798.0 | 7605.0 | 8097.8 | 7621.7 | 6321.9 |
| 70°   | 3799.8 | 3821.9 | 4180.8 | 4620.3 | 5450.2 | 5891.8 | 6487.3 | 7449.0 | 7960.7 | 7499.2 | 6095.9 |
| 72.5° | 1714.1 | 1682.8 | 1809.4 | 2044.9 | 2946.9 | 3648.0 | 4689.4 | 6035.1 | 6567.9 | 6008.0 | 4560.6 |
| 75°   | 1197.2 | 1183.6 | 1197.2 | 1198.2 | 1338.5 | 1726.8 | 2178.8 | 3271.4 | 4045.7 | 3491.1 | 2178.8 |
| 77.5° | 927.2  | 917.8  | 908.4  | 898.0  | 914.7  | 1024.5 | 1068.4 | 1160.6 | 1507.0 | 1425.3 | 830.9  |
| 80°   | 733.6  | 725.3  | 748.3  | 740.9  | 740.9  | 753.4  | 745.1  | 710.6  | 645.7  | 598.6  | 535.8  |
| 82.5° | 341.1  | 343.2  | 343.2  | 372.6  | 449.0  | 524.3  | 548.4  | 513.8  | 456.2  | 388.2  | 312.9  |
| 85°   | 32.5   | 36.7   | 61.7   | 95.2   | 189.4  | 213.5  | 214.5  | 177.9  | 177.9  | 140.2  | 113.0  |
| 87.5° | 0.0    | 1.1    | 1.1    | 1.1    | 9.5    | 26.2   | 22.0   | 6.3    | 3.2    | 3.2    | 5.3    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°   | 95°   | 100°  | 105°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4  | 482.4 | 482.4 | 482.4 | 482.4 |
| 2.5°  | 556.7  | 553.7  | 541.0  | 528.4  | 517.0  | 504.5  | 492.9  | 481.3 | 468.8 | 459.4 | 447.9 |
| 5°    | 651.0  | 627.9  | 601.8  | 576.7  | 551.6  | 525.4  | 498.2  | 474.1 | 449.0 | 426.0 | 404.0 |
| 7.5°  | 746.2  | 701.1  | 665.6  | 620.6  | 579.7  | 538.9  | 501.3  | 462.5 | 427.0 | 393.5 | 362.1 |
| 10°   | 826.7  | 772.4  | 716.9  | 659.3  | 600.7  | 546.3  | 494.0  | 447.9 | 400.8 | 360.0 | 321.3 |
| 12.5° | 892.7  | 823.5  | 755.5  | 683.3  | 617.4  | 548.4  | 483.5  | 428.1 | 372.6 | 326.5 | 286.7 |
| 15°   | 952.3  | 872.7  | 791.2  | 707.4  | 623.8  | 545.2  | 473.0  | 404.0 | 347.5 | 295.1 | 250.1 |
| 17.5° | 1000.4 | 909.4  | 817.3  | 723.2  | 633.1  | 541.0  | 459.4  | 387.2 | 321.3 | 266.8 | 222.9 |
| 20°   | 1042.4 | 947.0  | 847.6  | 742.0  | 639.4  | 540.0  | 447.9  | 366.3 | 298.3 | 240.7 | 197.8 |
| 22.5° | 1081.0 | 985.8  | 879.0  | 766.1  | 648.9  | 538.9  | 437.4  | 350.6 | 278.4 | 220.8 | 177.9 |
| 25°   | 1125.0 | 1024.5 | 912.6  | 791.2  | 665.6  | 543.1  | 431.1  | 338.0 | 260.5 | 202.0 | 162.2 |
| 27.5° | 1174.2 | 1068.4 | 952.3  | 822.6  | 687.5  | 551.6  | 429.1  | 324.4 | 244.9 | 184.1 | 149.7 |
| 30°   | 1243.2 | 1120.8 | 992.1  | 853.9  | 707.4  | 560.9  | 427.0  | 316.0 | 229.2 | 170.6 | 137.0 |
| 32.5° | 1303.9 | 1172.1 | 1036.1 | 886.4  | 729.4  | 570.4  | 426.0  | 304.6 | 214.5 | 157.0 | 127.7 |
| 35°   | 1367.7 | 1219.1 | 1073.7 | 917.8  | 748.3  | 580.8  | 424.9  | 296.2 | 200.9 | 143.4 | 118.2 |
| 37.5° | 1423.2 | 1259.0 | 1103.0 | 945.0  | 769.2  | 590.2  | 426.0  | 288.8 | 188.3 | 131.9 | 109.8 |
| 40°   | 1470.3 | 1299.7 | 1135.5 | 970.2  | 791.2  | 604.8  | 427.0  | 281.6 | 175.8 | 121.4 | 102.6 |
| 42.5° | 1512.1 | 1338.5 | 1169.9 | 998.3  | 816.3  | 621.7  | 433.2  | 275.2 | 165.3 | 111.9 | 95.2  |
| 45°   | 1544.6 | 1374.0 | 1207.7 | 1038.2 | 857.1  | 648.9  | 444.8  | 271.0 | 154.9 | 103.6 | 88.9  |
| 47.5° | 1578.1 | 1426.4 | 1271.5 | 1100.9 | 916.8  | 691.8  | 464.6  | 270.0 | 146.5 | 97.3  | 83.8  |
| 50°   | 1624.2 | 1478.7 | 1328.0 | 1164.8 | 971.1  | 735.7  | 488.7  | 271.0 | 136.0 | 91.0  | 78.5  |
| 52.5° | 1657.7 | 1532.1 | 1401.3 | 1275.7 | 1100.9 | 869.7  | 581.8  | 289.9 | 130.8 | 85.9  | 72.2  |
| 55°   | 1855.4 | 1833.4 | 1836.6 | 1857.5 | 1722.6 | 1479.8 | 973.2  | 418.6 | 153.9 | 97.3  | 71.2  |
| 57.5° | 2616.3 | 2693.7 | 2738.7 | 2737.7 | 2514.8 | 2085.7 | 1307.1 | 537.9 | 171.6 | 113.0 | 84.8  |
| 60°   | 3616.7 | 3558.1 | 3475.5 | 3271.4 | 2975.2 | 2380.8 | 1461.9 | 578.7 | 148.6 | 90.0  | 77.5  |
| 62.5° | 4501.0 | 4157.8 | 3853.2 | 3522.6 | 3134.2 | 2483.4 | 1493.3 | 575.6 | 129.8 | 68.0  | 54.4  |
| 65°   | 5052.5 | 4435.1 | 3943.3 | 3528.8 | 3071.5 | 2397.5 | 1412.7 | 528.4 | 109.8 | 55.5  | 45.0  |
| 67.5° | 5184.4 | 4285.5 | 3589.5 | 3061.0 | 2566.1 | 1865.9 | 1037.1 | 397.7 | 85.9  | 46.0  | 39.7  |
| 69°   | 4896.6 | 3809.3 | 2974.2 | 2374.5 | 1867.0 | 1238.0 | 641.5  | 251.2 | 65.9  | 41.8  | 36.7  |
| 70°   | 4504.2 | 3313.2 | 2422.6 | 1905.6 | 1382.5 | 869.7  | 449.0  | 176.9 | 53.4  | 38.7  | 33.5  |
| 72.5° | 2897.8 | 1740.3 | 1191.0 | 828.8  | 570.4  | 346.4  | 175.8  | 79.6  | 40.8  | 32.5  | 27.2  |
| 75°   | 1123.9 | 643.6  | 466.7  | 354.8  | 277.4  | 192.5  | 106.8  | 51.3  | 34.6  | 27.2  | 20.9  |
| 77.5° | 553.7  | 423.9  | 346.4  | 237.5  | 138.1  | 85.9   | 57.6   | 39.7  | 28.3  | 19.9  | 13.6  |
| 80°   | 437.4  | 290.9  | 173.7  | 107.8  | 81.7   | 61.7   | 43.9   | 32.5  | 20.9  | 12.5  | 9.5   |
| 82.5° | 224.0  | 122.4  | 90.0   | 73.3   | 60.6   | 48.1   | 35.6   | 23.0  | 13.6  | 8.4   | 7.4   |
| 85°   | 70.1   | 51.3   | 46.0   | 45.0   | 41.8   | 34.6   | 25.1   | 14.6  | 8.4   | 5.3   | 5.3   |
| 87.5° | 5.3    | 7.4    | 9.5    | 7.4    | 8.4    | 7.4    | 9.5    | 6.3   | 4.2   | 4.2   | 3.2   |
| 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):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 | 482.4 |
| 2.5°  | 439.5 | 427.0 | 415.5 | 408.1 | 394.5 | 389.3 | 384.0 | 381.9 | 372.6 | 374.7 | 366.3 |
| 5°    | 384.0 | 362.1 | 345.4 | 328.6 | 312.9 | 301.4 | 292.0 | 280.5 | 271.0 | 266.8 | 258.4 |
| 7.5°  | 333.8 | 305.6 | 283.7 | 265.8 | 247.0 | 232.4 | 219.8 | 211.4 | 203.0 | 194.6 | 190.4 |
| 10°   | 289.9 | 259.5 | 234.4 | 216.6 | 198.8 | 186.2 | 176.9 | 170.6 | 165.3 | 162.2 | 161.1 |
| 12.5° | 249.1 | 219.8 | 196.7 | 181.1 | 167.4 | 161.1 | 157.0 | 153.9 | 152.8 | 151.8 | 151.8 |
| 15°   | 217.7 | 188.3 | 170.6 | 159.1 | 152.8 | 149.7 | 148.6 | 146.5 | 144.4 | 143.4 | 143.4 |
| 17.5° | 188.3 | 166.4 | 153.9 | 147.6 | 144.4 | 142.3 | 140.2 | 138.1 | 136.0 | 134.9 | 134.9 |
| 20°   | 168.5 | 150.7 | 144.4 | 140.2 | 137.0 | 134.9 | 131.9 | 129.8 | 128.7 | 127.7 | 126.6 |
| 22.5° | 152.8 | 141.3 | 137.0 | 134.0 | 129.8 | 126.6 | 124.5 | 122.4 | 120.3 | 119.3 | 118.2 |
| 25°   | 141.3 | 134.0 | 130.8 | 126.6 | 122.4 | 119.3 | 116.1 | 113.0 | 111.0 | 109.8 | 107.8 |
| 27.5° | 132.9 | 127.7 | 123.5 | 118.2 | 114.0 | 111.0 | 107.8 | 104.7 | 102.6 | 100.5 | 99.4  |
| 30°   | 125.6 | 120.3 | 115.1 | 111.0 | 105.7 | 102.6 | 98.4  | 95.2  | 94.2  | 92.1  | 90.0  |
| 32.5° | 118.2 | 113.0 | 107.8 | 102.6 | 97.3  | 93.1  | 91.0  | 86.8  | 84.8  | 83.8  | 81.7  |
| 35°   | 109.8 | 104.7 | 98.4  | 94.2  | 88.9  | 84.8  | 81.7  | 78.5  | 76.4  | 74.3  | 73.3  |
| 37.5° | 102.6 | 96.3  | 90.0  | 84.8  | 80.6  | 76.4  | 73.3  | 70.1  | 68.0  | 65.9  | 64.8  |
| 40°   | 94.2  | 87.9  | 81.7  | 76.4  | 72.2  | 69.1  | 65.9  | 62.7  | 60.6  | 59.7  | 59.7  |
| 42.5° | 86.8  | 79.6  | 73.3  | 69.1  | 65.9  | 61.7  | 58.6  | 55.5  | 54.4  | 53.4  | 54.4  |
| 45°   | 79.6  | 72.2  | 66.9  | 62.7  | 59.7  | 55.5  | 52.3  | 50.2  | 49.2  | 50.2  | 51.3  |
| 47.5° | 73.3  | 65.9  | 60.6  | 57.6  | 54.4  | 51.3  | 48.1  | 46.0  | 46.0  | 48.1  | 50.2  |
| 50°   | 66.9  | 59.7  | 55.5  | 53.4  | 50.2  | 47.1  | 42.9  | 41.8  | 42.9  | 45.0  | 47.1  |
| 52.5° | 60.6  | 52.3  | 49.2  | 48.1  | 45.0  | 41.8  | 38.7  | 37.6  | 38.7  | 40.8  | 39.7  |
| 55°   | 54.4  | 46.0  | 45.0  | 43.9  | 40.8  | 36.7  | 33.5  | 33.5  | 33.5  | 32.5  | 30.4  |
| 57.5° | 52.3  | 40.8  | 39.7  | 38.7  | 35.6  | 31.4  | 29.3  | 27.2  | 26.2  | 23.0  | 22.0  |
| 60°   | 54.4  | 36.7  | 36.7  | 34.6  | 31.4  | 27.2  | 24.1  | 20.9  | 18.8  | 16.7  | 16.7  |
| 62.5° | 43.9  | 33.5  | 32.5  | 30.4  | 26.2  | 22.0  | 18.8  | 15.7  | 14.6  | 13.6  | 13.6  |
| 65°   | 35.6  | 30.4  | 28.3  | 25.1  | 22.0  | 17.8  | 14.6  | 12.5  | 11.6  | 11.6  | 12.5  |
| 67.5° | 32.5  | 27.2  | 24.1  | 20.9  | 17.8  | 13.6  | 11.6  | 10.5  | 10.5  | 11.6  | 11.6  |
| 69°   | 30.4  | 25.1  | 22.0  | 18.8  | 15.7  | 12.5  | 10.5  | 10.5  | 10.5  | 10.5  | 11.6  |
| 70°   | 28.3  | 24.1  | 20.9  | 17.8  | 13.6  | 10.5  | 9.5   | 9.5   | 10.5  | 10.5  | 11.6  |
| 72.5° | 22.0  | 18.8  | 17.8  | 14.6  | 10.5  | 9.5   | 8.4   | 9.5   | 9.5   | 10.5  | 10.5  |
| 75°   | 16.7  | 13.6  | 13.6  | 11.6  | 8.4   | 7.4   | 7.4   | 8.4   | 8.4   | 9.5   | 9.5   |
| 77.5° | 11.6  | 9.5   | 9.5   | 8.4   | 7.4   | 6.3   | 6.3   | 7.4   | 8.4   | 8.4   | 9.5   |
| 80°   | 8.4   | 7.4   | 6.3   | 7.4   | 6.3   | 5.3   | 6.3   | 7.4   | 7.4   | 8.4   | 8.4   |
| 82.5° | 6.3   | 6.3   | 6.3   | 6.3   | 5.3   | 5.3   | 6.3   | 6.3   | 7.4   | 8.4   | 8.4   |
| 85°   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 6.3   | 6.3   | 7.4   | 7.4   |
| 87.5° | 3.2   | 3.2   | 3.2   | 4.2   | 4.2   | 5.3   | 5.3   | 5.3   | 5.3   | 6.3   | 6.3   |
| 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: P162662

CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 482.4 | 482.4 | 482.4 | 482.4 |
| 2.5°  | 364.2 | 363.1 | 358.9 | 360.0 |
| 5°    | 255.4 | 249.1 | 253.3 | 252.2 |
| 7.5°  | 187.3 | 186.2 | 185.2 | 187.3 |
| 10°   | 160.2 | 160.2 | 159.1 | 160.2 |
| 12.5° | 150.7 | 150.7 | 150.7 | 150.7 |
| 15°   | 143.4 | 143.4 | 142.3 | 142.3 |
| 17.5° | 134.9 | 134.9 | 134.9 | 134.0 |
| 20°   | 126.6 | 125.6 | 125.6 | 125.6 |
| 22.5° | 117.2 | 116.1 | 116.1 | 116.1 |
| 25°   | 107.8 | 106.8 | 106.8 | 106.8 |
| 27.5° | 98.4  | 97.3  | 96.3  | 96.3  |
| 30°   | 88.9  | 87.9  | 86.8  | 86.8  |
| 32.5° | 79.6  | 78.5  | 77.5  | 77.5  |
| 35°   | 71.2  | 71.2  | 70.1  | 69.1  |
| 37.5° | 63.8  | 63.8  | 63.8  | 63.8  |
| 40°   | 58.6  | 59.7  | 59.7  | 59.7  |
| 42.5° | 55.5  | 56.5  | 57.6  | 58.6  |
| 45°   | 53.4  | 55.5  | 56.5  | 56.5  |
| 47.5° | 52.3  | 53.4  | 54.4  | 54.4  |
| 50°   | 48.1  | 47.1  | 47.1  | 47.1  |
| 52.5° | 38.7  | 36.7  | 35.6  | 34.6  |
| 55°   | 28.3  | 27.2  | 25.1  | 25.1  |
| 57.5° | 19.9  | 19.9  | 18.8  | 18.8  |
| 60°   | 15.7  | 15.7  | 14.6  | 15.7  |
| 62.5° | 13.6  | 13.6  | 13.6  | 13.6  |
| 65°   | 12.5  | 12.5  | 12.5  | 12.5  |
| 67.5° | 12.5  | 12.5  | 12.5  | 12.5  |
| 69°   | 11.6  | 11.6  | 11.6  | 11.6  |
| 70°   | 11.6  | 11.6  | 11.6  | 11.6  |
| 72.5° | 10.5  | 10.5  | 10.5  | 10.5  |
| 75°   | 9.5   | 10.5  | 10.5  | 10.5  |
| 77.5° | 9.5   | 9.5   | 9.5   | 9.5   |
| 80°   | 8.4   | 8.4   | 9.5   | 9.5   |
| 82.5° | 8.4   | 8.4   | 8.4   | 8.4   |
| 85°   | 7.4   | 7.4   | 8.4   | 8.4   |
| 87.5° | 6.3   | 6.3   | 7.4   | 7.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)