

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: P179991

Luminaire Tested: **ICM-F04-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179991  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F04-LED-E1-5MQ-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8357.7 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

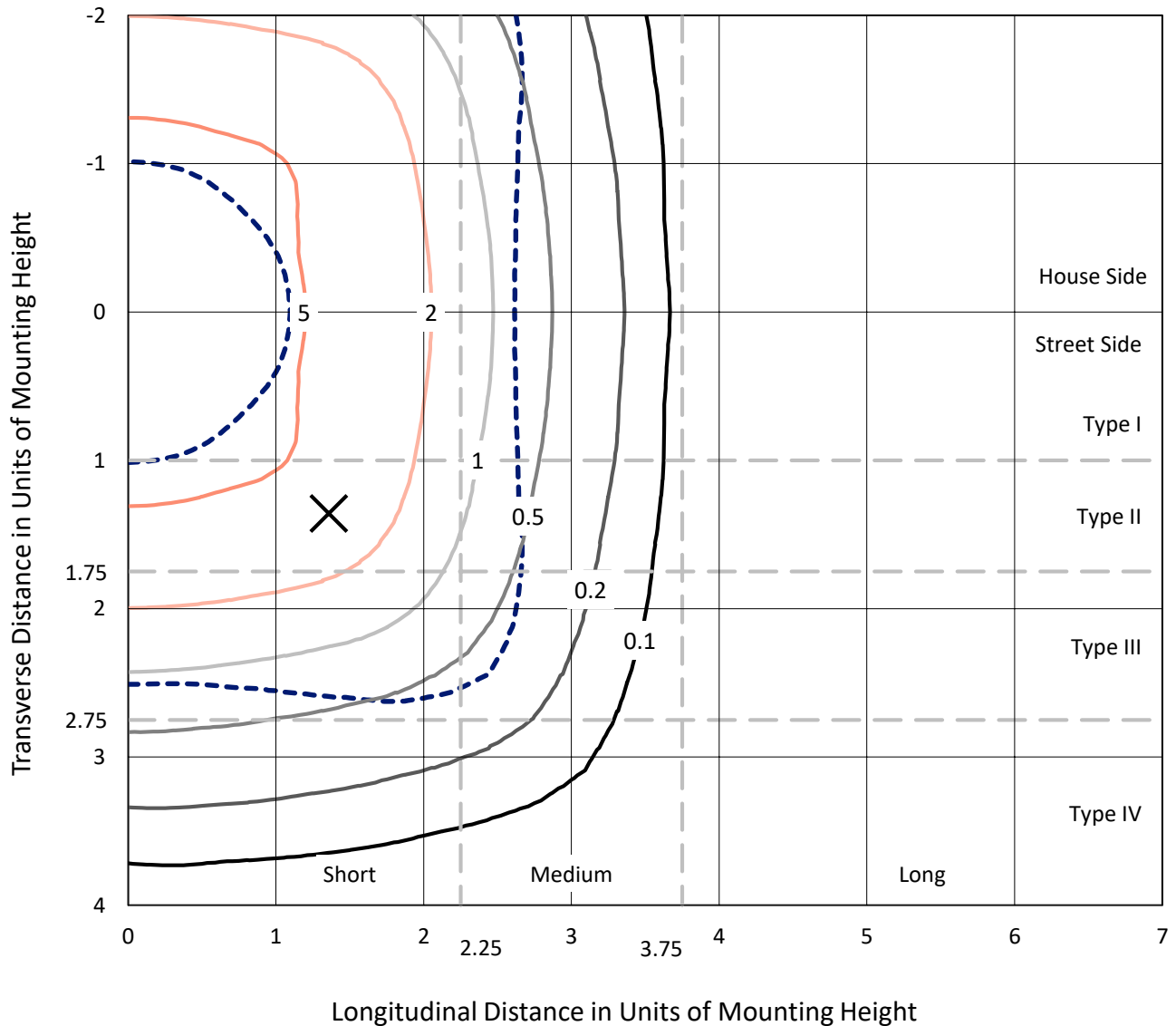
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P179991  
 CATALOG NUMBER: ICM-F04-LED-E1-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

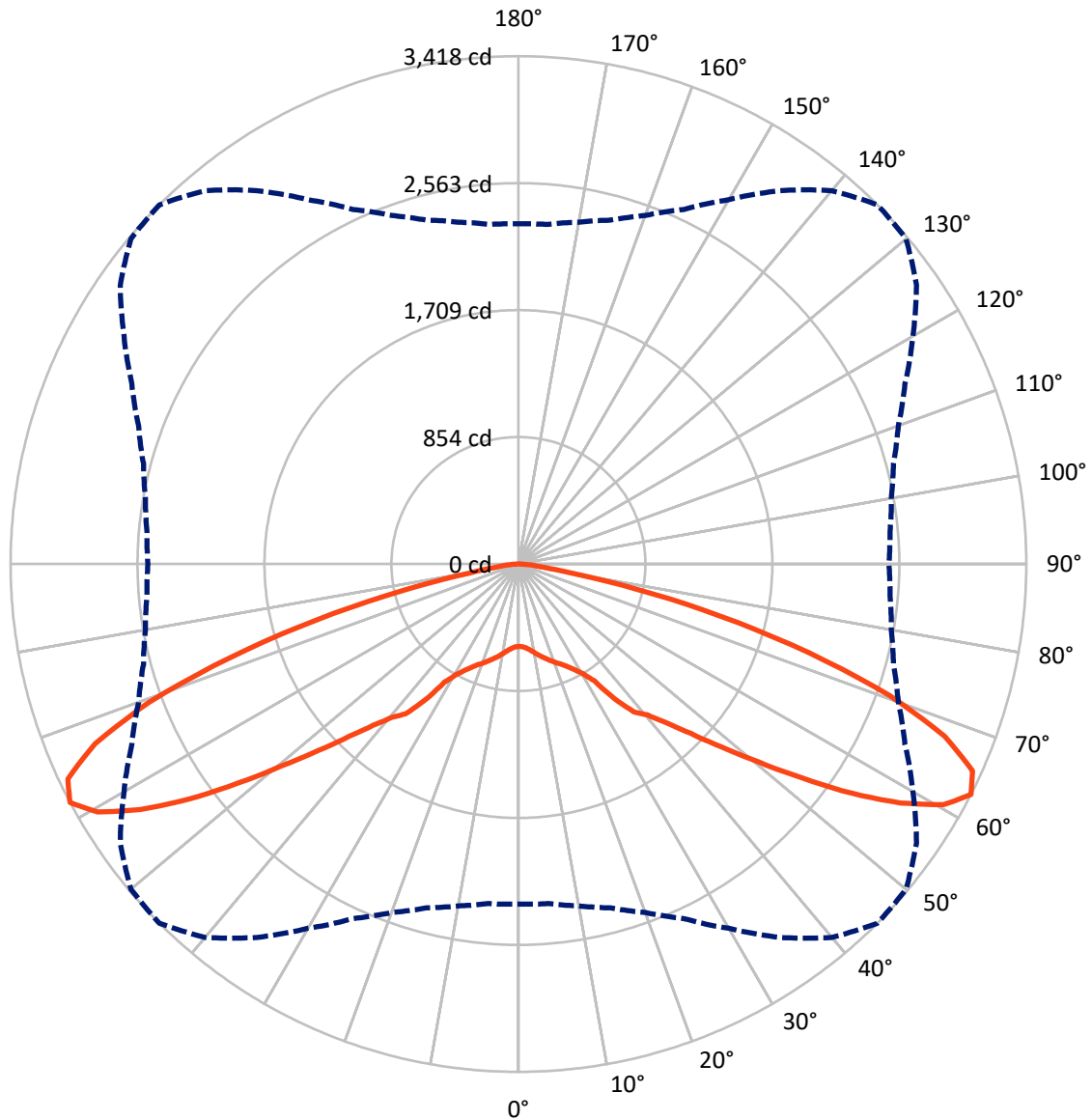
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P179991  
CATALOG NUMBER: ICM-F04-LED-E1-5MQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P179991

CATALOG NUMBER: ICM-F04-LED-E1-5MQ-8030

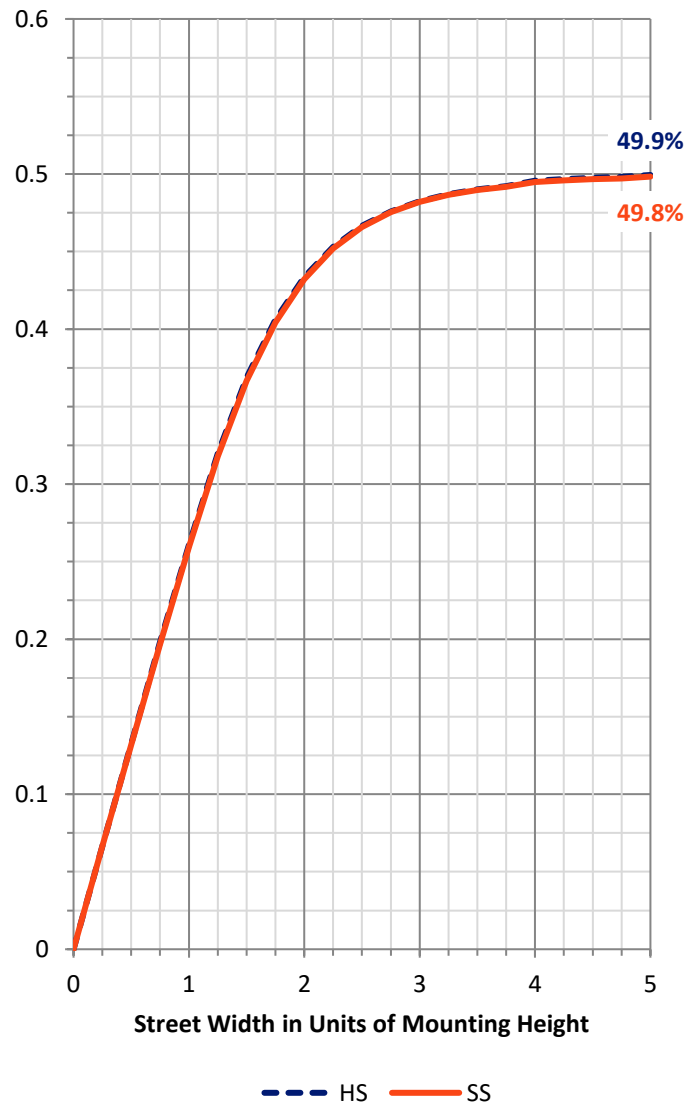
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4178.9   | 0.0    | 4178.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4178.9   | 0.0    | 4178.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8357.7   | 0.0    | 8357.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.6   | 0.7       |
| 10°-20°   | 187.9  | 2.2       |
| 20°-30°   | 363.4  | 4.3       |
| 30°-40°   | 703.6  | 8.4       |
| 40°-50°   | 1270.4 | 15.2      |
| 50°-60°   | 2209.0 | 26.4      |
| 60°-70°   | 2507.8 | 30.0      |
| 70°-80°   | 972.3  | 11.6      |
| 80°-90°   | 87.7   | 1.0       |
| 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°    | 8357.7 | 100.0     |
| 0°-180°   | 8357.7 | 100.0     |



REPORT NUMBER: P179991

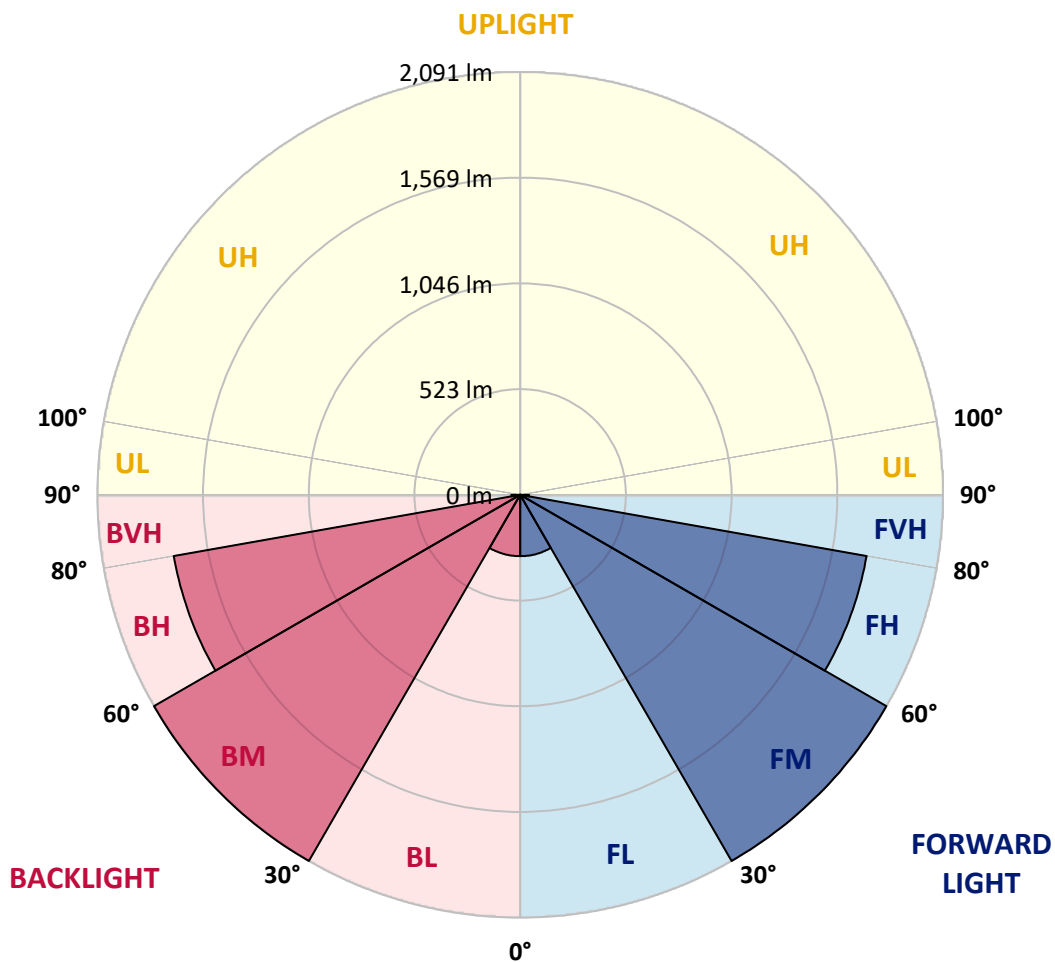
CATALOG NUMBER: ICM-F04-LED-E1-5MQ-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 303.5  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 2091.5 | 25.0      |                         |      |         |
| FH   | (60°-80°)   | 1740.0 | 20.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 43.9   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 303.5  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2091.5 | 25.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1740.0 | 20.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 43.9   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P179991

CATALOG NUMBER: ICM-F04-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  |
| 2.5°  | 558.3  | 560.0  | 559.5  | 558.7  | 558.7  | 558.7  | 558.3  | 557.0  | 556.5  | 557.4  | 558.2  |
| 5°    | 571.3  | 571.3  | 571.3  | 571.3  | 570.4  | 570.3  | 569.5  | 568.7  | 569.1  | 568.2  | 567.8  |
| 7.5°  | 591.1  | 589.8  | 589.8  | 589.4  | 589.4  | 588.5  | 587.2  | 585.5  | 585.9  | 585.4  | 585.0  |
| 10°   | 614.4  | 614.9  | 613.6  | 614.9  | 612.7  | 612.3  | 610.6  | 609.7  | 609.3  | 608.0  | 608.0  |
| 12.5° | 642.5  | 641.2  | 641.2  | 640.4  | 639.4  | 638.6  | 636.1  | 635.5  | 633.9  | 632.9  | 631.6  |
| 15°   | 668.9  | 668.5  | 666.7  | 664.9  | 664.6  | 663.6  | 660.7  | 659.0  | 658.5  | 656.4  | 654.6  |
| 17.5° | 695.2  | 694.3  | 692.3  | 691.4  | 689.6  | 688.4  | 685.8  | 683.1  | 681.9  | 680.9  | 678.8  |
| 20°   | 723.4  | 722.4  | 720.3  | 718.5  | 716.5  | 714.7  | 710.8  | 708.7  | 707.4  | 706.1  | 704.3  |
| 22.5° | 758.3  | 756.7  | 753.1  | 750.1  | 745.3  | 743.6  | 738.4  | 735.4  | 733.2  | 731.5  | 730.6  |
| 25°   | 796.3  | 796.8  | 792.0  | 788.1  | 782.5  | 777.7  | 771.3  | 767.8  | 765.7  | 763.9  | 763.5  |
| 27.5° | 843.9  | 844.3  | 840.0  | 834.3  | 825.7  | 820.5  | 811.9  | 807.6  | 806.3  | 804.6  | 804.1  |
| 30°   | 919.1  | 915.2  | 907.8  | 898.8  | 891.0  | 879.7  | 867.2  | 862.9  | 858.6  | 857.2  | 857.3  |
| 32.5° | 1057.3 | 1055.2 | 1049.1 | 1026.6 | 1016.3 | 992.9  | 971.0  | 958.3  | 944.1  | 937.1  | 932.8  |
| 35°   | 1154.1 | 1153.3 | 1148.5 | 1140.7 | 1134.2 | 1129.5 | 1116.5 | 1114.3 | 1111.8 | 1111.7 | 1115.2 |
| 37.5° | 1225.4 | 1220.2 | 1219.4 | 1220.7 | 1218.9 | 1219.7 | 1230.1 | 1244.4 | 1256.6 | 1262.5 | 1261.7 |
| 40°   | 1330.8 | 1323.5 | 1327.8 | 1324.8 | 1320.9 | 1320.0 | 1323.5 | 1329.1 | 1334.7 | 1334.7 | 1333.4 |
| 42.5° | 1468.7 | 1472.1 | 1473.9 | 1461.4 | 1453.1 | 1451.0 | 1459.2 | 1457.5 | 1463.1 | 1460.8 | 1455.3 |
| 45°   | 1673.5 | 1671.3 | 1668.3 | 1653.2 | 1640.2 | 1629.9 | 1632.0 | 1629.0 | 1629.4 | 1625.9 | 1621.6 |
| 47.5° | 1880.0 | 1887.4 | 1874.8 | 1867.5 | 1852.8 | 1845.4 | 1851.5 | 1846.3 | 1856.2 | 1838.1 | 1829.4 |
| 50°   | 2080.5 | 2085.7 | 2081.3 | 2071.0 | 2071.0 | 2081.3 | 2088.8 | 2098.2 | 2112.0 | 2091.3 | 2060.2 |
| 52.5° | 2244.7 | 2248.9 | 2255.5 | 2264.2 | 2285.3 | 2307.4 | 2338.4 | 2371.7 | 2398.1 | 2394.2 | 2358.7 |
| 55°   | 2344.9 | 2350.2 | 2360.9 | 2390.7 | 2428.8 | 2486.7 | 2557.1 | 2634.4 | 2694.9 | 2724.3 | 2698.4 |
| 57.5° | 2378.6 | 2382.5 | 2411.9 | 2447.8 | 2507.0 | 2592.9 | 2710.9 | 2844.5 | 2960.7 | 3034.5 | 3022.9 |
| 60°   | 2370.9 | 2370.8 | 2400.7 | 2449.9 | 2532.9 | 2647.0 | 2813.8 | 2998.7 | 3176.8 | 3287.3 | 3270.9 |
| 62.5° | 2289.2 | 2293.5 | 2336.3 | 2395.5 | 2495.7 | 2632.3 | 2831.1 | 3067.4 | 3280.4 | 3417.8 | 3404.5 |
| 65°   | 2110.3 | 2113.3 | 2159.5 | 2230.0 | 2342.0 | 2503.5 | 2720.9 | 2982.7 | 3226.8 | 3359.1 | 3334.0 |
| 67.5° | 1821.2 | 1824.2 | 1861.9 | 1941.4 | 2059.7 | 2228.8 | 2463.3 | 2751.6 | 2990.5 | 3095.1 | 3019.8 |
| 70°   | 1448.8 | 1457.5 | 1481.7 | 1565.9 | 1655.8 | 1821.2 | 2037.3 | 2325.5 | 2551.1 | 2650.1 | 2567.0 |
| 72.5° | 987.4  | 1009.3 | 1038.7 | 1113.5 | 1199.4 | 1336.8 | 1508.8 | 1751.6 | 1932.7 | 2047.3 | 1973.4 |
| 75°   | 556.1  | 587.2  | 596.3  | 652.8  | 723.7  | 832.2  | 958.0  | 1132.1 | 1314.8 | 1407.7 | 1318.7 |
| 77.5° | 240.2  | 265.8  | 277.0  | 303.3  | 358.6  | 403.9  | 480.5  | 598.1  | 739.4  | 804.6  | 697.9  |
| 80°   | 118.4  | 124.5  | 129.1  | 137.4  | 152.9  | 167.6  | 203.9  | 255.4  | 313.3  | 327.9  | 261.0  |
| 82.5° | 91.6   | 95.9   | 104.2  | 110.6  | 114.5  | 118.4  | 121.9  | 128.7  | 134.3  | 137.4  | 129.7  |
| 85°   | 64.4   | 70.0   | 79.1   | 86.4   | 90.8   | 93.8   | 96.7   | 99.0   | 93.8   | 85.6   | 89.9   |
| 87.5° | 16.9   | 22.0   | 30.7   | 33.3   | 37.6   | 39.8   | 38.9   | 40.2   | 36.3   | 26.4   | 29.4   |
| 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: P179991

CATALOG NUMBER: ICM-F04-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  | 554.8  |
| 2.5°  | 557.8  | 557.4  | 557.9  | 557.9  | 557.8  | 557.4  | 557.4  | 557.4  |
| 5°    | 567.7  | 567.7  | 568.2  | 567.4  | 567.3  | 567.7  | 567.3  | 566.9  |
| 7.5°  | 584.6  | 584.2  | 584.2  | 583.8  | 584.2  | 583.8  | 583.7  | 583.4  |
| 10°   | 607.1  | 606.2  | 606.7  | 605.4  | 605.4  | 604.9  | 604.9  | 604.9  |
| 12.5° | 631.3  | 630.0  | 630.4  | 629.0  | 627.0  | 627.4  | 627.8  | 627.4  |
| 15°   | 654.6  | 653.3  | 652.0  | 651.2  | 649.9  | 650.3  | 650.2  | 649.9  |
| 17.5° | 678.3  | 675.7  | 675.4  | 674.1  | 673.7  | 673.6  | 673.7  | 674.1  |
| 20°   | 703.0  | 701.2  | 700.8  | 699.5  | 699.2  | 700.5  | 700.8  | 700.0  |
| 22.5° | 729.3  | 728.5  | 729.4  | 728.6  | 729.9  | 730.6  | 731.1  | 730.2  |
| 25°   | 762.6  | 761.8  | 763.0  | 766.1  | 767.8  | 768.7  | 770.8  | 770.0  |
| 27.5° | 805.4  | 804.6  | 807.5  | 811.9  | 814.5  | 818.8  | 820.9  | 821.9  |
| 30°   | 860.7  | 864.6  | 866.4  | 875.0  | 876.7  | 883.5  | 883.6  | 886.6  |
| 32.5° | 941.0  | 948.5  | 961.4  | 974.8  | 993.3  | 1006.7 | 1006.8 | 1013.7 |
| 35°   | 1117.4 | 1120.4 | 1130.3 | 1132.5 | 1136.4 | 1140.7 | 1136.4 | 1139.8 |
| 37.5° | 1252.7 | 1239.3 | 1229.7 | 1216.4 | 1208.1 | 1208.1 | 1208.9 | 1208.1 |
| 40°   | 1321.7 | 1316.6 | 1312.2 | 1301.0 | 1299.3 | 1298.8 | 1298.8 | 1300.6 |
| 42.5° | 1445.4 | 1432.8 | 1425.9 | 1416.4 | 1413.4 | 1412.5 | 1412.1 | 1412.9 |
| 45°   | 1606.1 | 1585.8 | 1567.2 | 1557.6 | 1549.4 | 1541.7 | 1544.3 | 1544.3 |
| 47.5° | 1793.1 | 1761.6 | 1731.4 | 1715.0 | 1700.7 | 1694.2 | 1689.9 | 1688.6 |
| 50°   | 2020.8 | 1976.8 | 1937.9 | 1907.2 | 1886.5 | 1886.1 | 1888.2 | 1874.4 |
| 52.5° | 2300.0 | 2230.4 | 2182.1 | 2140.5 | 2121.1 | 2119.0 | 2112.0 | 2104.3 |
| 55°   | 2609.4 | 2526.9 | 2446.9 | 2402.4 | 2376.9 | 2363.1 | 2354.9 | 2341.9 |
| 57.5° | 2928.3 | 2817.2 | 2702.3 | 2630.9 | 2586.1 | 2555.0 | 2538.5 | 2531.2 |
| 60°   | 3174.2 | 3022.4 | 2870.7 | 2756.3 | 2681.5 | 2635.4 | 2606.7 | 2595.1 |
| 62.5° | 3270.9 | 3065.1 | 2870.7 | 2720.4 | 2612.4 | 2548.5 | 2510.0 | 2493.1 |
| 65°   | 3155.6 | 2911.8 | 2690.6 | 2524.7 | 2404.1 | 2332.9 | 2290.9 | 2272.8 |
| 67.5° | 2833.1 | 2618.1 | 2377.3 | 2212.3 | 2088.3 | 2017.9 | 1972.5 | 1959.1 |
| 70°   | 2375.2 | 2155.3 | 1925.4 | 1778.1 | 1667.4 | 1610.0 | 1562.8 | 1557.2 |
| 72.5° | 1784.9 | 1595.3 | 1398.2 | 1276.4 | 1187.4 | 1092.3 | 1068.1 | 1080.2 |
| 75°   | 1144.2 | 966.5  | 791.2  | 681.4  | 600.2  | 509.4  | 474.4  | 483.1  |
| 77.5° | 541.9  | 419.5  | 302.9  | 234.2  | 196.7  | 168.1  | 160.7  | 156.4  |
| 80°   | 200.9  | 162.9  | 143.9  | 136.6  | 131.3  | 126.6  | 123.2  | 119.3  |
| 82.5° | 130.0  | 127.1  | 123.2  | 121.9  | 118.0  | 111.9  | 100.7  | 95.9   |
| 85°   | 97.2   | 97.2   | 92.0   | 92.5   | 89.4   | 81.7   | 71.3   | 65.7   |
| 87.5° | 28.5   | 25.5   | 23.3   | 21.6   | 21.2   | 19.1   | 13.9   | 12.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)