

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: P142043

Luminaire Tested: **ECM-F03-LED-E1-T4-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P142043  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33685)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-F03-LED-E1-T4-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6010.9 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

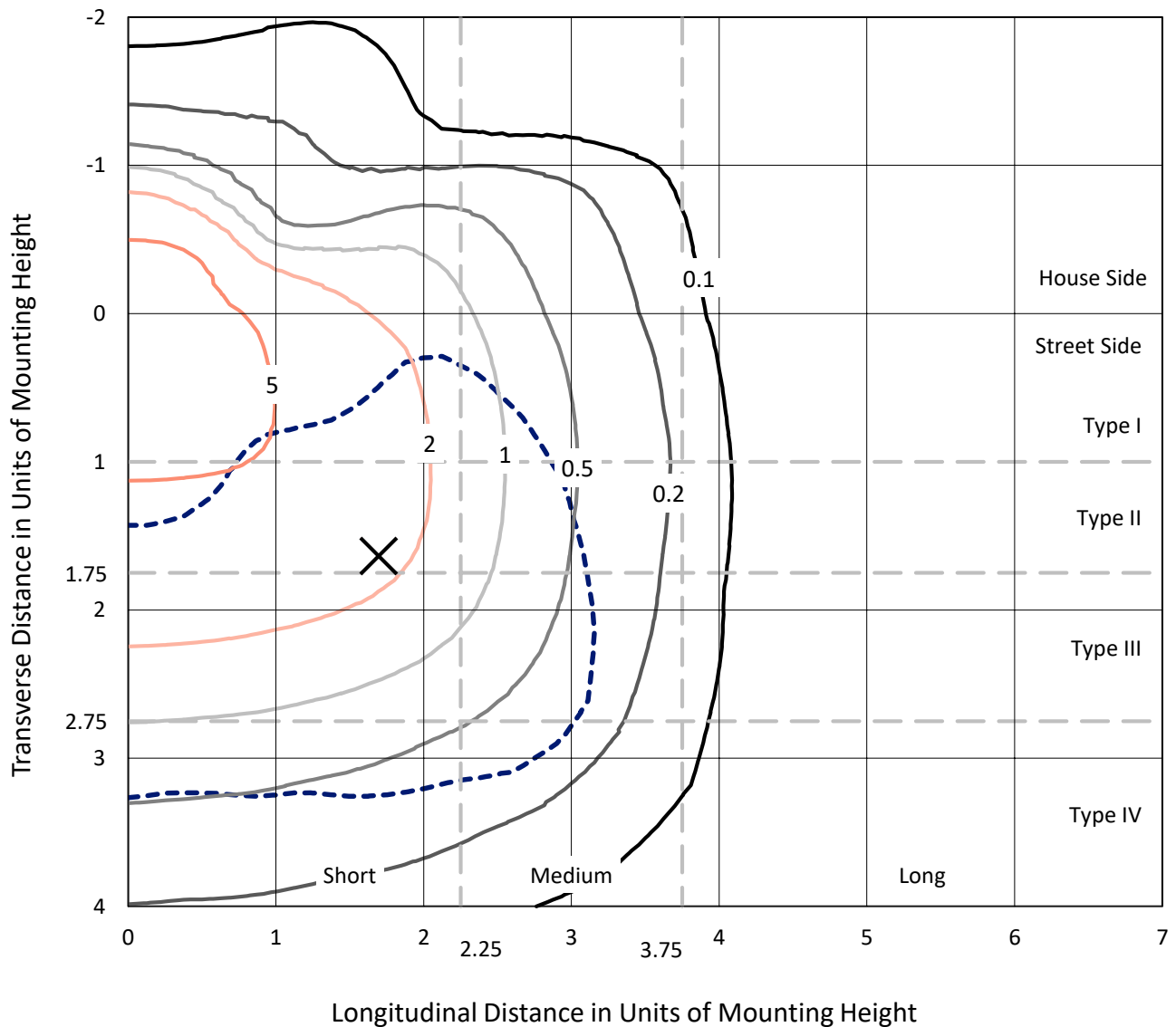
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

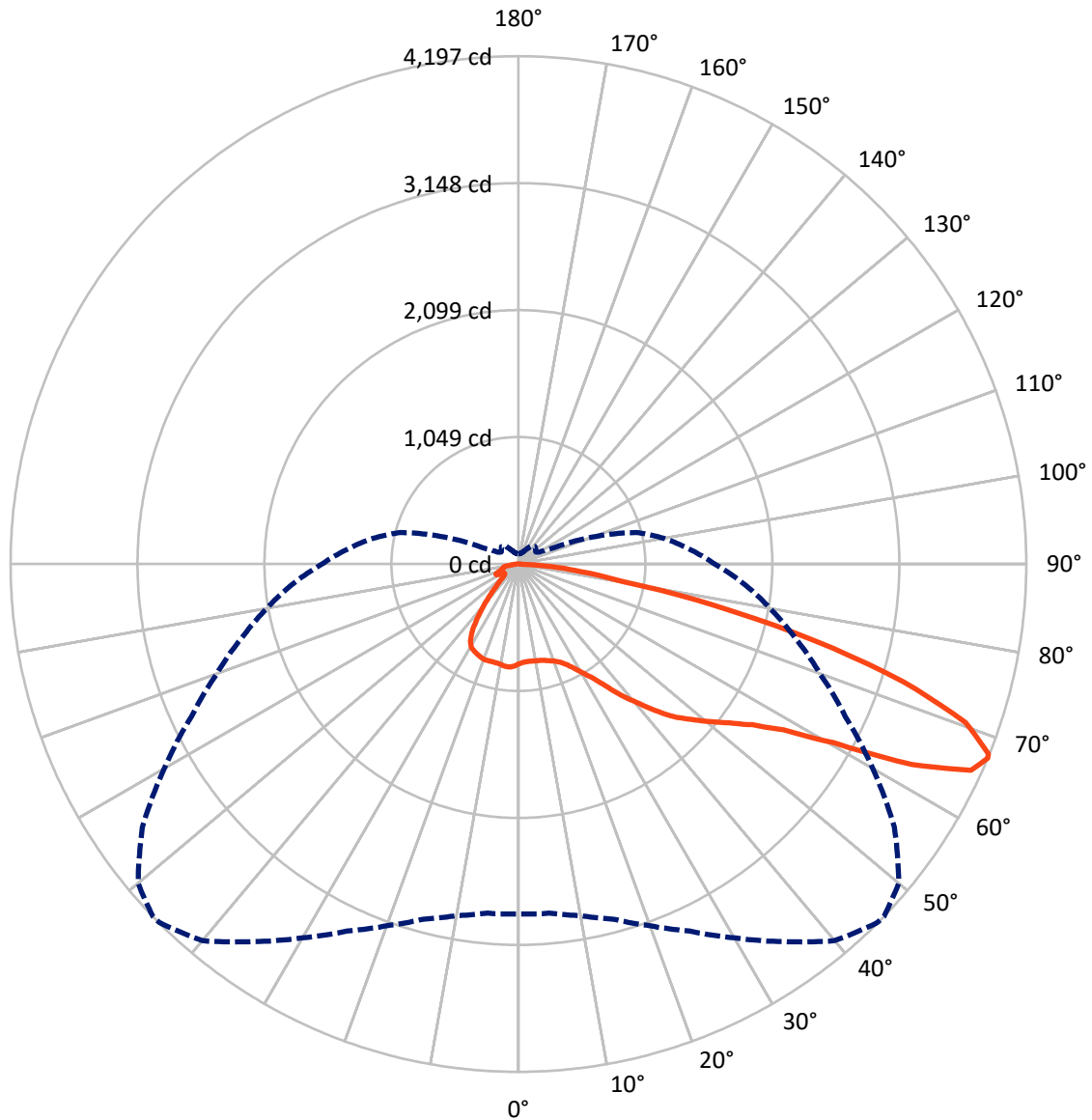
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1194.5   | 0.0    | 1194.5 |
|                    | % Fixture | 19.9     | 0.0    | 19.9   |
| <b>Street Side</b> | Lumens    | 4816.4   | 0.0    | 4816.4 |
|                    | % Fixture | 80.1     | 0.0    | 80.1   |
| <b>Total</b>       | Lumens    | 6010.9   | 0.0    | 6010.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.2   | 1.3       |
| 10°-20°   | 236.6  | 3.9       |
| 20°-30°   | 397.8  | 6.6       |
| 30°-40°   | 594.9  | 9.9       |
| 40°-50°   | 774.8  | 12.9      |
| 50°-60°   | 1061.2 | 17.7      |
| 60°-70°   | 1677.6 | 27.9      |
| 70°-80°   | 1040.6 | 17.3      |
| 80°-90°   | 148.3  | 2.5       |
| 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°    | 6010.9 | 100.0     |
| 0°-180°   | 6010.9 | 100.0     |



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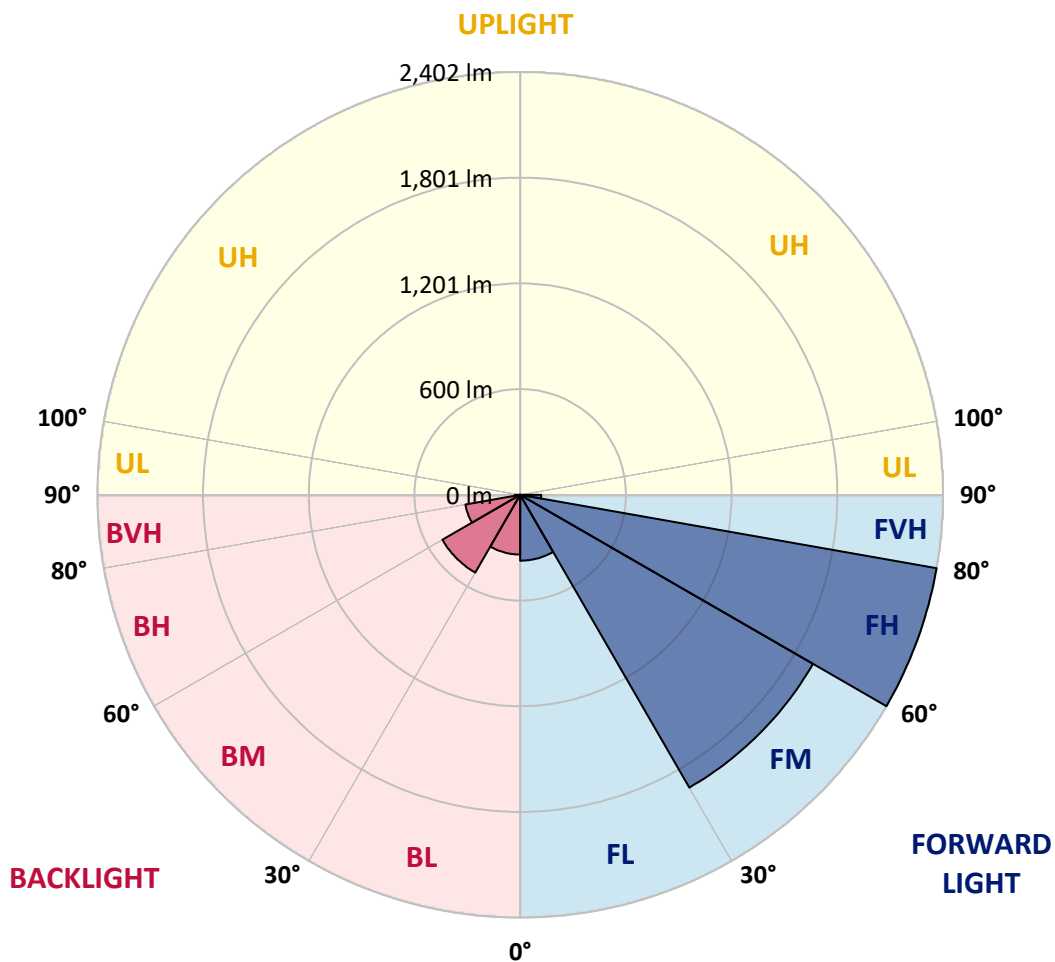
CATALOG NUMBER: ECM-F03-LED-E1-T4-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 374.3  | 6.2       |                         |      |         |
| FM   | (30°-60°)   | 1920.7 | 32.0      |                         |      |         |
| FH   | (60°-80°)   | 2402.0 | 40.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 119.4  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 339.3  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 510.1  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 316.2  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 28.9   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 46°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  |
| 2.5°  | 805.4  | 807.5  | 806.8  | 806.1  | 806.8  | 807.5  | 808.2  | 810.3  | 811.0  | 811.7  | 812.4  |
| 5°    | 790.8  | 792.9  | 792.2  | 793.6  | 794.3  | 797.1  | 799.2  | 802.6  | 804.7  | 807.5  | 808.9  |
| 7.5°  | 786.6  | 788.0  | 788.0  | 789.4  | 790.1  | 792.9  | 796.4  | 800.5  | 804.7  | 808.9  | 810.3  |
| 10°   | 797.8  | 798.5  | 798.5  | 797.8  | 798.5  | 799.9  | 801.2  | 804.7  | 808.2  | 811.7  | 813.1  |
| 12.5° | 824.2  | 822.1  | 821.5  | 819.4  | 820.1  | 817.3  | 817.3  | 816.6  | 816.6  | 817.3  | 817.3  |
| 15°   | 852.1  | 850.7  | 849.3  | 845.8  | 845.8  | 841.7  | 840.3  | 837.5  | 830.5  | 827.7  | 827.0  |
| 17.5° | 877.2  | 875.8  | 873.0  | 870.2  | 868.8  | 863.3  | 861.9  | 857.0  | 848.6  | 842.4  | 840.3  |
| 20°   | 907.1  | 903.7  | 897.4  | 896.0  | 892.5  | 886.2  | 884.2  | 877.9  | 866.7  | 857.7  | 857.0  |
| 22.5° | 953.1  | 947.6  | 941.3  | 936.4  | 927.4  | 921.1  | 915.5  | 907.1  | 893.9  | 883.5  | 880.7  |
| 25°   | 999.1  | 997.0  | 991.5  | 984.5  | 978.2  | 971.2  | 964.3  | 951.7  | 934.3  | 921.1  | 918.3  |
| 27.5° | 1063.9 | 1059.0 | 1052.1 | 1040.9 | 1037.4 | 1025.6 | 1020.0 | 1009.6 | 992.2  | 975.4  | 972.6  |
| 30°   | 1131.5 | 1126.6 | 1115.5 | 1105.7 | 1103.6 | 1091.1 | 1087.6 | 1076.5 | 1061.1 | 1044.4 | 1042.3 |
| 32.5° | 1208.8 | 1204.0 | 1195.6 | 1190.0 | 1182.4 | 1175.4 | 1167.0 | 1156.6 | 1137.1 | 1123.1 | 1120.4 |
| 35°   | 1307.8 | 1303.6 | 1293.8 | 1298.0 | 1291.1 | 1289.0 | 1284.1 | 1266.7 | 1245.1 | 1228.3 | 1231.1 |
| 37.5° | 1385.8 | 1385.1 | 1387.2 | 1385.1 | 1394.2 | 1403.2 | 1403.2 | 1404.6 | 1394.2 | 1376.1 | 1372.6 |
| 40°   | 1459.0 | 1458.3 | 1463.8 | 1470.1 | 1494.5 | 1509.1 | 1525.9 | 1532.1 | 1521.0 | 1507.0 | 1502.2 |
| 42.5° | 1527.2 | 1525.9 | 1533.5 | 1556.5 | 1586.5 | 1613.6 | 1642.2 | 1666.6 | 1672.2 | 1656.8 | 1653.4 |
| 45°   | 1594.8 | 1596.9 | 1606.7 | 1632.5 | 1672.2 | 1707.7 | 1756.5 | 1785.0 | 1803.2 | 1794.8 | 1800.4 |
| 47.5° | 1676.3 | 1678.4 | 1688.9 | 1719.5 | 1754.4 | 1799.0 | 1856.1 | 1904.9 | 1926.5 | 1926.5 | 1919.5 |
| 50°   | 1773.2 | 1782.9 | 1794.1 | 1815.0 | 1855.4 | 1899.3 | 1969.0 | 2017.7 | 2052.6 | 2051.2 | 2045.6 |
| 52.5° | 1902.1 | 1904.2 | 1922.3 | 1939.0 | 1973.9 | 2018.4 | 2081.1 | 2148.0 | 2191.9 | 2187.7 | 2181.5 |
| 55°   | 2075.6 | 2067.2 | 2079.1 | 2095.1 | 2132.7 | 2171.7 | 2240.0 | 2317.3 | 2361.9 | 2348.7 | 2344.5 |
| 57.5° | 2294.4 | 2287.4 | 2295.7 | 2315.3 | 2362.6 | 2394.7 | 2449.7 | 2520.8 | 2583.5 | 2594.6 | 2584.9 |
| 60°   | 2610.0 | 2610.0 | 2626.7 | 2668.5 | 2716.6 | 2764.6 | 2835.0 | 2920.7 | 2985.5 | 3001.5 | 3000.8 |
| 62.5° | 2984.1 | 3007.8 | 3011.3 | 3065.6 | 3157.6 | 3240.5 | 3349.9 | 3501.1 | 3597.9 | 3666.9 | 3648.8 |
| 65°   | 3044.0 | 3051.7 | 3082.4 | 3166.7 | 3291.4 | 3438.4 | 3608.4 | 3807.0 | 4008.3 | 4108.0 | 4110.7 |
| 67°   | 2893.5 | 2896.3 | 2950.0 | 3038.5 | 3181.3 | 3347.1 | 3567.3 | 3809.1 | 4064.1 | 4193.0 | 4197.1 |
| 67.5° | 2846.9 | 2841.3 | 2889.4 | 2982.0 | 3138.1 | 3324.8 | 3531.8 | 3786.1 | 4049.4 | 4187.4 | 4189.5 |
| 70°   | 2534.0 | 2536.8 | 2574.4 | 2677.6 | 2842.7 | 3017.6 | 3248.9 | 3510.2 | 3787.5 | 3913.6 | 3919.8 |
| 72.5° | 2185.0 | 2166.8 | 2201.0 | 2311.1 | 2389.8 | 2560.5 | 2773.0 | 2970.2 | 3214.0 | 3333.2 | 3330.4 |
| 75°   | 1666.6 | 1616.4 | 1676.3 | 1740.4 | 1784.3 | 1953.6 | 2086.0 | 2221.9 | 2446.9 | 2537.5 | 2532.6 |
| 77.5° | 898.1  | 896.0  | 961.5  | 1011.7 | 1077.2 | 1229.7 | 1346.1 | 1431.8 | 1621.3 | 1665.9 | 1671.5 |
| 80°   | 487.7  | 505.8  | 544.8  | 600.6  | 653.5  | 726.7  | 794.3  | 847.9  | 909.9  | 881.4  | 875.1  |
| 82.5° | 294.0  | 324.0  | 383.9  | 426.4  | 447.3  | 480.1  | 528.1  | 558.8  | 583.2  | 530.2  | 519.8  |
| 85°   | 46.7   | 84.3   | 216.7  | 259.2  | 281.5  | 296.8  | 307.3  | 327.5  | 298.9  | 280.1  | 285.0  |
| 87.5° | 15.3   | 17.4   | 33.4   | 73.9   | 64.8   | 44.6   | 58.5   | 85.0   | 40.4   | 21.6   | 20.9   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  | 823.5  |
| 2.5°  | 813.1  | 813.8  | 815.9  | 818.7  | 820.1  | 823.5  | 823.5  | 826.3  | 826.3  | 828.4  | 830.5  |
| 5°    | 811.0  | 814.5  | 817.3  | 821.5  | 823.5  | 828.4  | 830.5  | 834.7  | 836.8  | 839.6  | 842.4  |
| 7.5°  | 814.5  | 819.4  | 822.8  | 827.7  | 831.2  | 836.1  | 838.2  | 841.7  | 843.7  | 847.2  | 848.6  |
| 10°   | 817.3  | 822.1  | 826.3  | 831.9  | 834.7  | 838.2  | 840.3  | 843.1  | 843.7  | 845.8  | 847.2  |
| 12.5° | 820.8  | 822.8  | 826.3  | 831.2  | 834.0  | 836.1  | 838.2  | 840.3  | 842.4  | 842.4  | 842.4  |
| 15°   | 825.6  | 823.5  | 824.2  | 828.4  | 831.2  | 832.6  | 834.7  | 836.1  | 836.8  | 836.8  | 835.4  |
| 17.5° | 836.1  | 830.5  | 827.0  | 827.0  | 828.4  | 829.8  | 829.8  | 827.7  | 826.3  | 824.2  | 821.5  |
| 20°   | 851.4  | 842.4  | 835.4  | 831.9  | 829.1  | 825.6  | 820.1  | 813.1  | 806.8  | 801.2  | 797.8  |
| 22.5° | 873.0  | 864.0  | 855.6  | 847.9  | 838.9  | 827.0  | 815.2  | 800.5  | 788.7  | 779.6  | 776.2  |
| 25°   | 913.4  | 900.2  | 893.9  | 882.1  | 868.1  | 849.3  | 831.2  | 811.0  | 797.1  | 784.5  | 779.0  |
| 27.5° | 967.8  | 957.3  | 943.4  | 937.1  | 919.0  | 897.4  | 877.2  | 852.8  | 833.3  | 818.0  | 807.5  |
| 30°   | 1036.7 | 1029.8 | 1017.9 | 1007.5 | 990.1  | 970.6  | 940.6  | 913.4  | 879.3  | 852.1  | 836.8  |
| 32.5° | 1116.2 | 1105.7 | 1095.3 | 1082.0 | 1069.5 | 1043.7 | 1015.8 | 974.7  | 927.4  | 880.7  | 852.1  |
| 35°   | 1215.8 | 1205.4 | 1198.4 | 1177.5 | 1156.6 | 1128.7 | 1091.1 | 1042.3 | 976.1  | 913.4  | 864.6  |
| 37.5° | 1353.1 | 1330.8 | 1296.6 | 1266.7 | 1229.0 | 1186.5 | 1144.0 | 1085.5 | 1011.7 | 930.1  | 863.3  |
| 40°   | 1472.2 | 1439.5 | 1401.1 | 1349.6 | 1296.6 | 1240.9 | 1190.7 | 1127.3 | 1040.9 | 944.1  | 853.5  |
| 42.5° | 1626.9 | 1570.4 | 1505.6 | 1437.4 | 1364.9 | 1298.0 | 1236.0 | 1163.5 | 1062.5 | 944.8  | 830.5  |
| 45°   | 1766.2 | 1696.6 | 1610.9 | 1518.2 | 1429.7 | 1348.2 | 1277.1 | 1197.0 | 1080.6 | 942.0  | 804.0  |
| 47.5° | 1890.2 | 1808.7 | 1704.2 | 1592.7 | 1488.2 | 1396.3 | 1318.2 | 1233.9 | 1104.3 | 951.0  | 794.3  |
| 50°   | 2010.1 | 1916.7 | 1799.0 | 1663.8 | 1547.4 | 1447.1 | 1365.6 | 1275.0 | 1144.0 | 981.7  | 809.6  |
| 52.5° | 2138.3 | 2024.7 | 1891.6 | 1739.1 | 1612.2 | 1508.4 | 1417.2 | 1324.5 | 1191.4 | 1022.8 | 837.5  |
| 55°   | 2295.0 | 2166.2 | 2014.3 | 1845.7 | 1700.0 | 1584.4 | 1481.3 | 1383.7 | 1247.9 | 1073.7 | 870.2  |
| 57.5° | 2504.1 | 2373.8 | 2198.9 | 2004.5 | 1851.9 | 1714.7 | 1590.6 | 1480.6 | 1333.6 | 1144.0 | 919.0  |
| 60°   | 2906.8 | 2745.8 | 2513.1 | 2302.0 | 2136.9 | 1975.2 | 1825.4 | 1675.0 | 1498.0 | 1286.2 | 1044.4 |
| 62.5° | 3553.4 | 3329.0 | 3040.6 | 2746.5 | 2523.6 | 2309.7 | 2111.8 | 1916.0 | 1695.2 | 1457.6 | 1193.5 |
| 65°   | 4000.7 | 3723.4 | 3361.1 | 2992.5 | 2690.8 | 2429.5 | 2193.3 | 1960.6 | 1714.7 | 1488.2 | 1258.3 |
| 67°   | 4103.1 | 3793.0 | 3380.6 | 2980.6 | 2652.5 | 2368.9 | 2111.8 | 1869.3 | 1622.0 | 1416.5 | 1220.0 |
| 67.5° | 4098.9 | 3789.5 | 3365.2 | 2955.6 | 2626.7 | 2347.3 | 2088.1 | 1833.1 | 1590.0 | 1388.6 | 1201.2 |
| 70°   | 3850.9 | 3540.1 | 3113.7 | 2706.1 | 2389.1 | 2111.1 | 1849.8 | 1627.6 | 1379.5 | 1216.5 | 1075.8 |
| 72.5° | 3262.8 | 2992.5 | 2648.3 | 2281.8 | 2010.1 | 1761.3 | 1552.3 | 1334.2 | 1119.0 | 1010.3 | 899.5  |
| 75°   | 2481.1 | 2241.4 | 1925.8 | 1657.5 | 1450.6 | 1277.8 | 1068.1 | 924.6  | 773.4  | 698.8  | 659.1  |
| 77.5° | 1639.4 | 1364.2 | 1146.1 | 890.4  | 738.5  | 602.7  | 475.2  | 376.9  | 314.9  | 330.9  | 361.6  |
| 80°   | 867.4  | 688.4  | 509.3  | 394.4  | 304.5  | 236.9  | 188.1  | 140.7  | 102.4  | 119.8  | 150.5  |
| 82.5° | 472.4  | 402.7  | 297.5  | 236.9  | 193.7  | 160.2  | 123.3  | 86.4   | 64.1   | 71.1   | 102.4  |
| 85°   | 269.6  | 236.9  | 183.9  | 143.5  | 125.4  | 102.4  | 70.4   | 47.4   | 46.0   | 49.5   | 63.4   |
| 87.5° | 44.6   | 59.9   | 48.8   | 33.4   | 37.6   | 36.9   | 32.7   | 25.1   | 18.8   | 26.5   | 34.1   |
| 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: ECM-F03-LED-E1-T4-8030

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 823.5  | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 |
| 2.5°  | 831.9  | 834.0 | 836.8 | 837.5 | 836.8 | 838.9 | 842.4 | 845.1 | 843.1 | 841.7 | 845.1 |
| 5°    | 845.1  | 846.5 | 850.0 | 850.0 | 850.7 | 852.1 | 854.2 | 856.3 | 853.5 | 853.5 | 854.9 |
| 7.5°  | 850.7  | 850.7 | 854.2 | 852.8 | 852.8 | 852.1 | 854.2 | 854.9 | 850.7 | 850.0 | 850.7 |
| 10°   | 847.2  | 847.2 | 848.6 | 845.8 | 845.1 | 844.4 | 844.4 | 845.1 | 841.0 | 839.6 | 841.7 |
| 12.5° | 842.4  | 842.4 | 841.0 | 839.6 | 838.2 | 836.8 | 838.2 | 838.9 | 836.1 | 836.1 | 836.8 |
| 15°   | 834.0  | 831.9 | 831.2 | 831.2 | 831.9 | 832.6 | 835.4 | 837.5 | 835.4 | 834.0 | 834.0 |
| 17.5° | 820.1  | 818.7 | 820.8 | 824.9 | 829.8 | 833.3 | 837.5 | 838.9 | 834.0 | 828.4 | 824.2 |
| 20°   | 799.2  | 802.6 | 810.3 | 822.1 | 832.6 | 838.2 | 838.2 | 833.3 | 822.1 | 811.0 | 805.4 |
| 22.5° | 777.6  | 787.3 | 804.0 | 822.1 | 834.7 | 836.8 | 829.1 | 818.7 | 803.3 | 791.5 | 781.0 |
| 25°   | 780.3  | 792.2 | 808.9 | 824.2 | 832.6 | 829.1 | 815.2 | 801.9 | 783.8 | 771.3 | 756.0 |
| 27.5° | 809.6  | 820.8 | 829.1 | 834.0 | 831.2 | 820.1 | 804.0 | 785.9 | 765.7 | 748.3 | 730.2 |
| 30°   | 833.3  | 838.2 | 837.5 | 833.3 | 822.8 | 805.4 | 786.6 | 765.0 | 740.6 | 721.8 | 698.1 |
| 32.5° | 837.5  | 828.4 | 814.5 | 799.2 | 785.2 | 765.7 | 744.1 | 719.0 | 691.9 | 667.5 | 643.8 |
| 35°   | 829.8  | 795.7 | 765.0 | 734.4 | 713.5 | 689.1 | 670.3 | 641.0 | 611.0 | 590.1 | 572.7 |
| 37.5° | 801.2  | 742.0 | 693.3 | 650.1 | 619.4 | 591.5 | 563.0 | 534.4 | 509.3 | 499.6 | 494.7 |
| 40°   | 765.0  | 675.8 | 601.3 | 541.4 | 508.6 | 481.4 | 452.2 | 429.2 | 417.3 | 408.3 | 404.8 |
| 42.5° | 712.1  | 600.6 | 507.9 | 443.8 | 402.0 | 376.9 | 348.4 | 335.8 | 330.3 | 332.3 | 329.6 |
| 45°   | 662.6  | 521.9 | 405.5 | 334.4 | 305.9 | 282.2 | 268.2 | 262.7 | 259.9 | 258.5 | 260.6 |
| 47.5° | 627.8  | 461.2 | 326.8 | 254.3 | 230.6 | 213.9 | 208.3 | 206.2 | 205.5 | 202.8 | 202.1 |
| 50°   | 619.4  | 425.7 | 267.5 | 197.9 | 179.8 | 170.7 | 167.9 | 165.8 | 164.4 | 162.3 | 157.5 |
| 52.5° | 629.2  | 416.0 | 238.3 | 170.0 | 154.7 | 147.7 | 145.6 | 142.1 | 140.7 | 135.2 | 128.9 |
| 55°   | 645.9  | 419.4 | 229.2 | 162.3 | 147.0 | 139.3 | 136.6 | 135.2 | 130.3 | 124.0 | 116.4 |
| 57.5° | 680.7  | 441.0 | 233.4 | 164.4 | 148.4 | 141.4 | 140.0 | 138.7 | 132.4 | 123.3 | 113.6 |
| 60°   | 781.7  | 503.7 | 255.0 | 179.1 | 159.6 | 154.7 | 155.4 | 152.6 | 143.5 | 131.7 | 117.1 |
| 62.5° | 937.8  | 601.3 | 294.7 | 197.2 | 177.7 | 177.7 | 181.8 | 179.8 | 165.8 | 146.3 | 125.4 |
| 65°   | 1018.6 | 659.8 | 311.4 | 202.8 | 183.2 | 192.3 | 205.5 | 203.4 | 183.2 | 154.0 | 126.1 |
| 67°   | 1006.1 | 648.7 | 301.7 | 194.4 | 172.8 | 184.6 | 197.9 | 198.6 | 176.3 | 147.0 | 120.5 |
| 67.5° | 994.2  | 641.0 | 296.8 | 190.9 | 170.0 | 181.8 | 194.4 | 192.3 | 173.5 | 144.2 | 119.1 |
| 70°   | 893.2  | 563.0 | 264.8 | 178.4 | 157.5 | 160.9 | 164.4 | 161.6 | 147.0 | 127.5 | 110.1 |
| 72.5° | 771.3  | 467.5 | 233.4 | 170.7 | 150.5 | 144.9 | 144.9 | 140.0 | 130.3 | 117.1 | 104.5 |
| 75°   | 588.0  | 363.7 | 204.8 | 162.3 | 142.1 | 133.8 | 132.4 | 128.9 | 120.5 | 110.8 | 99.6  |
| 77.5° | 358.8  | 260.6 | 177.7 | 149.8 | 131.7 | 124.7 | 125.4 | 123.3 | 115.0 | 105.9 | 95.5  |
| 80°   | 179.8  | 168.6 | 149.1 | 130.3 | 119.1 | 112.2 | 112.9 | 108.7 | 101.7 | 94.8  | 86.4  |
| 82.5° | 110.1  | 116.4 | 104.5 | 98.9  | 92.0  | 84.3  | 65.5  | 76.6  | 74.6  | 68.3  | 64.8  |
| 85°   | 73.2   | 72.5  | 65.5  | 57.8  | 53.0  | 46.0  | 41.1  | 41.8  | 46.0  | 47.4  | 47.4  |
| 87.5° | 35.5   | 34.1  | 31.4  | 29.3  | 27.9  | 23.0  | 21.6  | 24.4  | 24.4  | 25.8  | 25.1  |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 |
| 2.5°  | 845.8 | 847.2 | 846.5 | 848.6 | 846.5 |
| 5°    | 855.6 | 855.6 | 856.3 | 857.0 | 856.3 |
| 7.5°  | 850.7 | 850.0 | 851.4 | 852.8 | 852.1 |
| 10°   | 841.7 | 842.4 | 843.7 | 845.8 | 845.8 |
| 12.5° | 838.2 | 838.9 | 841.7 | 843.7 | 843.7 |
| 15°   | 835.4 | 836.1 | 837.5 | 840.3 | 838.2 |
| 17.5° | 822.8 | 820.1 | 820.1 | 822.1 | 820.1 |
| 20°   | 800.5 | 796.4 | 796.4 | 795.7 | 795.0 |
| 22.5° | 774.1 | 763.6 | 760.8 | 757.4 | 758.0 |
| 25°   | 741.3 | 727.4 | 719.7 | 715.5 | 714.2 |
| 27.5° | 714.9 | 698.8 | 691.2 | 684.9 | 682.8 |
| 30°   | 681.4 | 663.3 | 657.0 | 653.5 | 652.1 |
| 32.5° | 632.6 | 616.6 | 608.3 | 606.2 | 602.0 |
| 35°   | 558.8 | 551.8 | 548.3 | 543.5 | 544.2 |
| 37.5° | 484.9 | 482.8 | 474.5 | 477.3 | 474.5 |
| 40°   | 405.5 | 404.8 | 406.2 | 404.1 | 409.0 |
| 42.5° | 330.9 | 328.9 | 332.3 | 330.3 | 332.3 |
| 45°   | 256.4 | 260.6 | 265.5 | 263.4 | 266.2 |
| 47.5° | 196.5 | 197.2 | 195.8 | 197.2 | 198.6 |
| 50°   | 151.2 | 149.8 | 148.4 | 145.6 | 147.0 |
| 52.5° | 124.7 | 119.8 | 116.4 | 114.3 | 113.6 |
| 55°   | 110.1 | 105.2 | 102.4 | 99.6  | 99.6  |
| 57.5° | 105.9 | 99.6  | 95.5  | 93.4  | 92.7  |
| 60°   | 106.6 | 98.2  | 92.7  | 89.2  | 88.5  |
| 62.5° | 109.4 | 98.2  | 90.6  | 87.1  | 85.7  |
| 65°   | 108.7 | 96.8  | 89.2  | 85.7  | 84.3  |
| 67°   | 105.2 | 94.8  | 88.5  | 85.0  | 84.3  |
| 67.5° | 103.8 | 94.1  | 88.5  | 85.0  | 83.6  |
| 70°   | 98.9  | 92.0  | 87.1  | 83.6  | 82.2  |
| 72.5° | 94.8  | 89.2  | 83.6  | 80.8  | 79.4  |
| 75°   | 90.6  | 85.0  | 80.1  | 77.3  | 76.6  |
| 77.5° | 86.4  | 80.1  | 76.6  | 73.2  | 70.4  |
| 80°   | 78.7  | 71.8  | 66.9  | 61.3  | 59.9  |
| 82.5° | 64.8  | 59.2  | 54.3  | 49.5  | 48.8  |
| 85°   | 48.1  | 46.0  | 41.8  | 37.6  | 37.6  |
| 87.5° | 26.5  | 29.3  | 25.8  | 23.7  | 22.3  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)