

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: P141724

Luminaire Tested: **ECM-F03-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141724
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33682)
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-T2-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6668.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

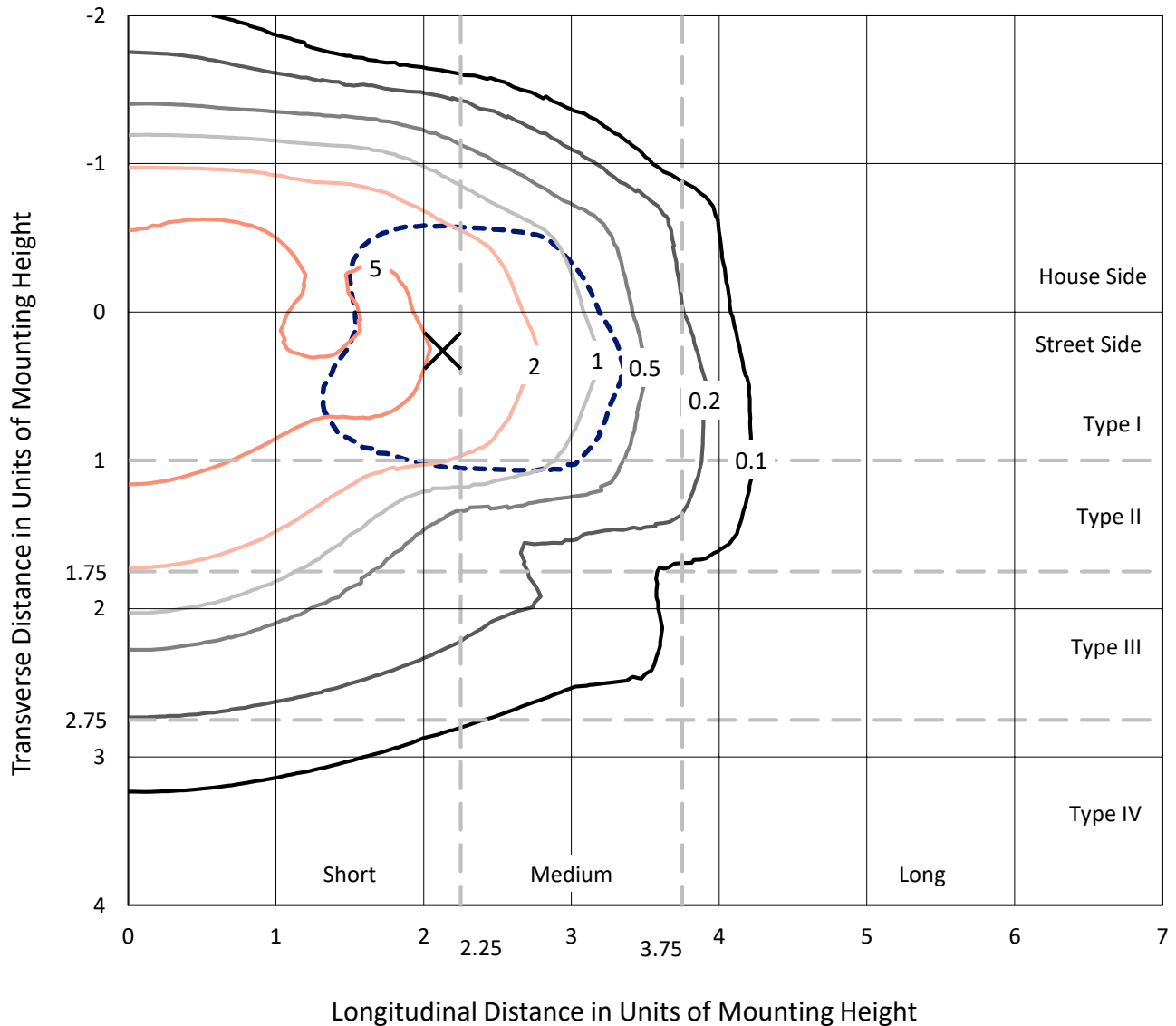


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

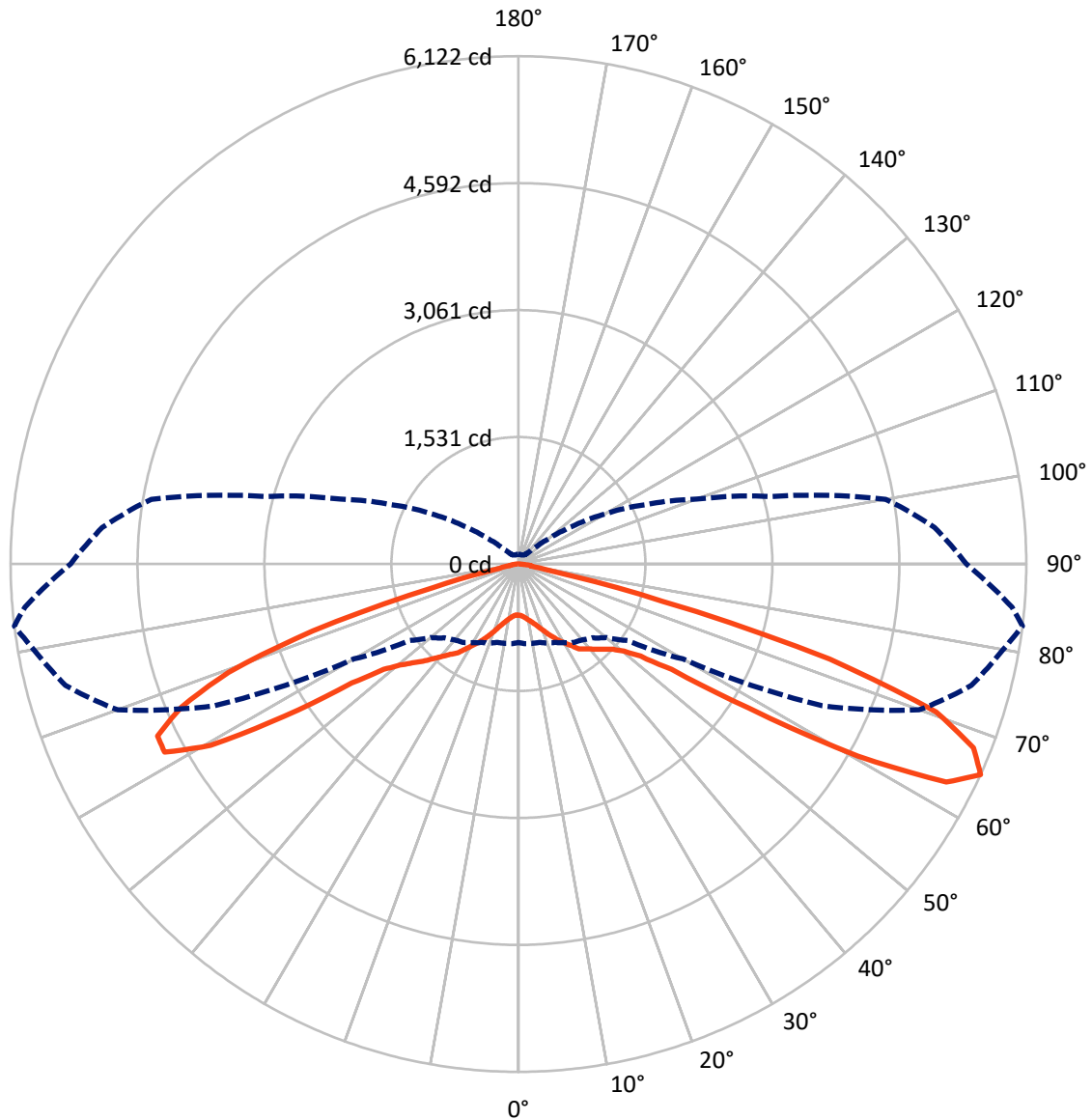


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2473.5 | 0.0 | 2473.5 |
| | % Fixture | 37.1 | 0.0 | 37.1 |
| Street Side | Lumens | 4195.0 | 0.0 | 4195.0 |
| | % Fixture | 62.9 | 0.0 | 62.9 |
| Total | Lumens | 6668.5 | 0.0 | 6668.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.1 | 0.9 |
| 10°-20° | 217.7 | 3.3 |
| 20°-30° | 430.0 | 6.4 |
| 30°-40° | 740.0 | 11.1 |
| 40°-50° | 1116.5 | 16.7 |
| 50°-60° | 1553.7 | 23.3 |
| 60°-70° | 1793.3 | 26.9 |
| 70°-80° | 651.7 | 9.8 |
| 80°-90° | 103.5 | 1.6 |
| 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° | 6668.5 | 100.0 |
| 0°-180° | 6668.5 | 100.0 |



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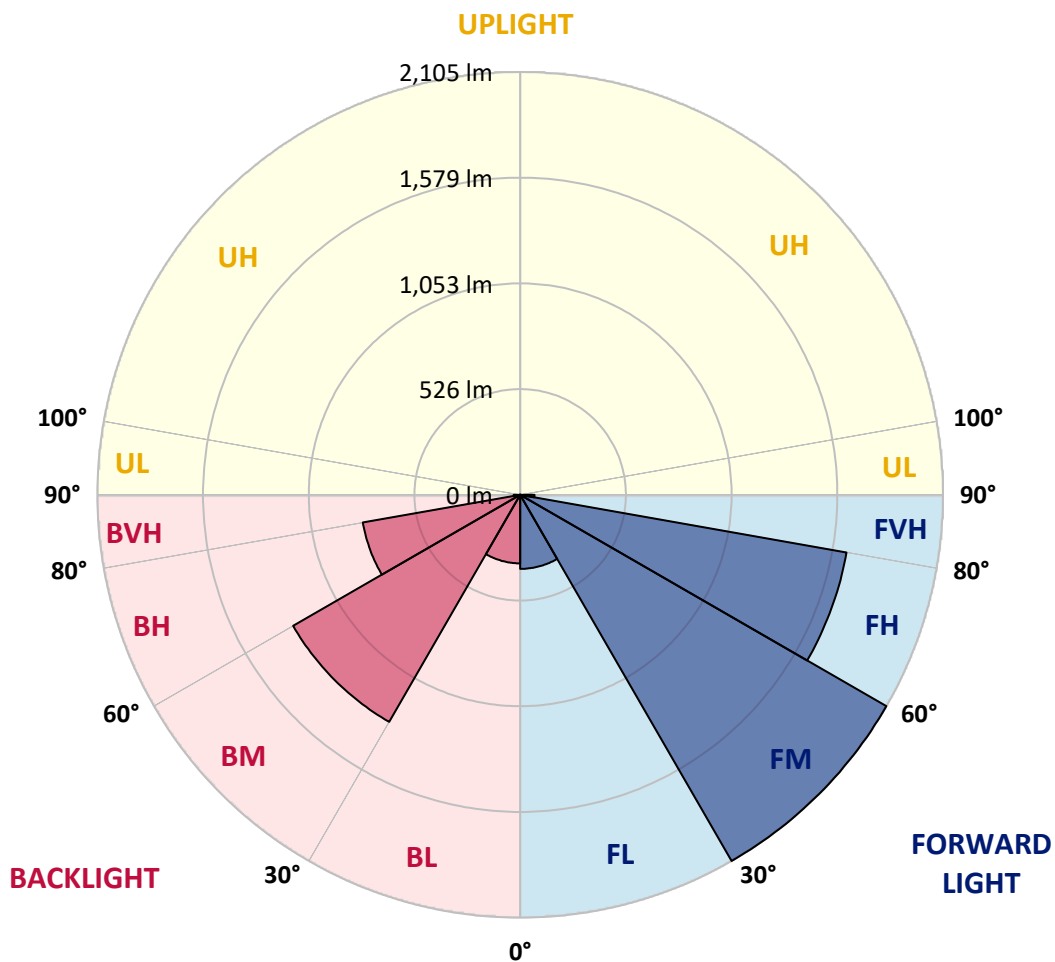
CATALOG NUMBER: ECM-F03-LED-E1-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 368.7 | 5.5 | | | |
| FM | (30°-60°) | 2105.1 | 31.6 | | | |
| FH | (60°-80°) | 1649.7 | 24.7 | | | G1/1800 |
| FVH | (80°-90°) | 71.5 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 341.1 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 1305.1 | 19.6 | B2/2500 | | |
| BH | (60°-80°) | 795.3 | 11.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 32.0 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 |
| 2.5° | 647.7 | 649.2 | 647.7 | 647.7 | 646.9 | 646.2 | 646.2 | 645.4 | 643.9 | 642.4 | 641.6 |
| 5° | 683.1 | 683.9 | 681.6 | 681.6 | 682.4 | 681.6 | 679.3 | 680.1 | 674.1 | 671.8 | 670.3 |
| 7.5° | 722.3 | 724.6 | 721.6 | 720.1 | 719.3 | 717.8 | 715.5 | 711.8 | 707.2 | 703.5 | 701.2 |
| 10° | 766.8 | 769.1 | 767.6 | 764.5 | 760.0 | 757.8 | 755.5 | 749.5 | 744.2 | 738.2 | 733.6 |
| 12.5° | 819.6 | 820.3 | 818.8 | 812.8 | 809.8 | 803.0 | 795.5 | 788.7 | 781.1 | 772.1 | 764.5 |
| 15° | 871.6 | 872.4 | 870.1 | 864.1 | 860.3 | 852.0 | 841.5 | 832.4 | 819.6 | 809.0 | 799.2 |
| 17.5° | 911.6 | 913.1 | 908.6 | 904.0 | 898.8 | 888.2 | 878.4 | 867.8 | 854.3 | 843.0 | 833.2 |
| 20° | 925.1 | 927.4 | 924.4 | 922.1 | 919.1 | 913.8 | 904.0 | 895.0 | 882.9 | 874.6 | 867.1 |
| 22.5° | 919.1 | 921.4 | 919.9 | 919.9 | 919.9 | 919.1 | 914.6 | 912.3 | 904.8 | 901.0 | 899.5 |
| 25° | 910.1 | 912.3 | 910.8 | 912.3 | 915.3 | 919.1 | 919.1 | 923.6 | 922.9 | 928.9 | 932.7 |
| 27.5° | 933.4 | 935.0 | 931.2 | 931.2 | 934.2 | 940.2 | 938.7 | 947.8 | 949.3 | 961.3 | 972.7 |
| 30° | 1014.9 | 1014.9 | 1008.8 | 1002.8 | 1005.1 | 1003.6 | 1002.1 | 1008.1 | 1008.1 | 1019.4 | 1024.7 |
| 32.5° | 1136.3 | 1128.0 | 1127.2 | 1126.5 | 1121.2 | 1125.0 | 1112.9 | 1113.6 | 1108.4 | 1109.9 | 1107.6 |
| 35° | 1269.7 | 1269.0 | 1266.0 | 1264.4 | 1262.2 | 1273.5 | 1264.4 | 1272.0 | 1253.1 | 1246.4 | 1233.5 |
| 37.5° | 1386.6 | 1389.6 | 1391.9 | 1403.2 | 1408.5 | 1431.1 | 1436.4 | 1440.1 | 1420.5 | 1421.3 | 1392.6 |
| 40° | 1504.2 | 1508.0 | 1516.3 | 1536.6 | 1551.7 | 1572.8 | 1582.6 | 1598.5 | 1600.0 | 1603.0 | 1581.9 |
| 42.5° | 1632.4 | 1626.4 | 1637.7 | 1663.3 | 1682.2 | 1703.3 | 1716.1 | 1745.5 | 1762.1 | 1770.4 | 1773.4 |
| 45° | 1735.7 | 1728.9 | 1734.2 | 1749.3 | 1766.6 | 1793.8 | 1821.6 | 1865.4 | 1900.8 | 1939.3 | 1960.4 |
| 47.5° | 1789.2 | 1790.7 | 1794.5 | 1803.6 | 1815.6 | 1842.0 | 1881.2 | 1937.0 | 1994.3 | 2056.1 | 2111.2 |
| 50° | 1806.6 | 1807.3 | 1812.6 | 1821.6 | 1833.0 | 1860.9 | 1901.6 | 1964.9 | 2034.3 | 2121.0 | 2205.4 |
| 52.5° | 1811.8 | 1808.8 | 1814.1 | 1818.6 | 1826.2 | 1849.5 | 1888.0 | 1954.4 | 2032.8 | 2137.6 | 2262.7 |
| 55° | 1792.2 | 1788.5 | 1797.5 | 1803.6 | 1809.6 | 1828.4 | 1857.8 | 1918.9 | 2000.3 | 2119.5 | 2283.1 |
| 57.5° | 1716.8 | 1717.6 | 1730.4 | 1746.2 | 1762.1 | 1787.7 | 1826.2 | 1884.2 | 1964.9 | 2082.5 | 2265.8 |
| 60° | 1589.4 | 1587.2 | 1603.0 | 1622.6 | 1649.7 | 1690.5 | 1738.0 | 1796.8 | 1863.9 | 1961.9 | 2142.1 |
| 62.5° | 1357.9 | 1367.0 | 1372.3 | 1401.7 | 1403.2 | 1461.2 | 1492.2 | 1551.0 | 1608.3 | 1683.7 | 1845.8 |
| 65° | 945.5 | 965.1 | 970.4 | 977.9 | 1013.4 | 1043.5 | 1093.3 | 1155.1 | 1192.8 | 1259.2 | 1379.8 |
| 67.5° | 588.9 | 603.2 | 603.9 | 623.6 | 654.5 | 689.2 | 727.6 | 790.2 | 847.5 | 858.0 | 918.4 |
| 70° | 488.6 | 489.3 | 499.9 | 514.2 | 538.4 | 573.8 | 611.5 | 655.2 | 707.2 | 740.4 | 734.4 |
| 72.5° | 404.9 | 409.4 | 417.0 | 431.3 | 457.7 | 489.3 | 537.6 | 593.4 | 658.2 | 724.6 | 783.4 |
| 75° | 271.4 | 279.0 | 281.2 | 288.0 | 300.8 | 329.5 | 365.7 | 418.5 | 502.2 | 600.9 | 726.1 |
| 77.5° | 144.0 | 145.5 | 150.8 | 156.1 | 162.9 | 180.2 | 203.6 | 230.7 | 285.8 | 371.0 | 518.0 |
| 80° | 73.1 | 76.2 | 79.9 | 83.7 | 82.9 | 87.5 | 94.2 | 106.3 | 125.2 | 162.9 | 234.5 |
| 82.5° | 26.4 | 33.9 | 44.5 | 49.8 | 49.8 | 51.3 | 53.5 | 55.8 | 54.3 | 60.3 | 75.4 |
| 85° | 12.1 | 13.6 | 17.3 | 27.1 | 27.9 | 27.9 | 27.9 | 29.4 | 27.9 | 24.9 | 29.4 |
| 87.5° | 0.0 | 2.3 | 2.3 | 6.8 | 7.5 | 6.8 | 7.5 | 9.8 | 7.5 | 6.0 | 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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CATALOG NUMBER: ECM-F03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 83° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 |
| 2.5° | 637.9 | 636.4 | 632.6 | 631.1 | 626.6 | 623.6 | 622.0 | 620.5 | 618.3 | 615.3 | 613.0 |
| 5° | 665.8 | 661.3 | 656.0 | 653.0 | 646.9 | 640.9 | 638.6 | 635.6 | 630.3 | 625.8 | 620.5 |
| 7.5° | 695.2 | 689.9 | 683.9 | 677.1 | 671.1 | 664.3 | 661.3 | 658.2 | 650.7 | 644.7 | 637.1 |
| 10° | 726.8 | 719.3 | 712.5 | 706.5 | 701.2 | 693.7 | 688.4 | 686.1 | 679.3 | 670.3 | 662.8 |
| 12.5° | 757.0 | 748.7 | 741.9 | 734.4 | 729.1 | 723.1 | 717.8 | 715.5 | 710.3 | 702.0 | 695.9 |
| 15° | 788.7 | 780.4 | 772.8 | 767.6 | 761.5 | 757.8 | 754.7 | 751.0 | 748.7 | 741.9 | 738.9 |
| 17.5° | 822.6 | 815.1 | 808.3 | 803.8 | 801.5 | 800.7 | 800.0 | 798.5 | 796.2 | 791.7 | 789.4 |
| 20° | 861.1 | 854.3 | 852.0 | 851.3 | 852.0 | 852.8 | 854.3 | 854.3 | 855.0 | 852.0 | 851.3 |
| 22.5° | 898.0 | 898.0 | 901.8 | 906.3 | 910.8 | 913.8 | 916.1 | 913.1 | 913.8 | 918.4 | 922.1 |
| 25° | 938.7 | 945.5 | 955.3 | 962.8 | 969.6 | 974.9 | 977.9 | 979.4 | 980.9 | 987.7 | 994.5 |
| 27.5° | 982.5 | 993.0 | 1007.3 | 1017.1 | 1030.0 | 1038.2 | 1044.3 | 1043.5 | 1045.8 | 1054.8 | 1066.9 |
| 30° | 1036.7 | 1047.3 | 1062.4 | 1075.9 | 1093.3 | 1105.4 | 1107.6 | 1106.1 | 1109.1 | 1117.4 | 1141.5 |
| 32.5° | 1112.9 | 1115.2 | 1125.0 | 1138.5 | 1157.4 | 1169.4 | 1171.7 | 1175.5 | 1182.3 | 1197.3 | 1226.7 |
| 35° | 1220.0 | 1210.2 | 1209.4 | 1215.4 | 1233.5 | 1256.9 | 1259.2 | 1261.4 | 1264.4 | 1284.1 | 1323.3 |
| 37.5° | 1364.7 | 1324.8 | 1300.6 | 1281.8 | 1284.1 | 1292.3 | 1296.9 | 1298.4 | 1305.9 | 1336.1 | 1402.4 |
| 40° | 1546.4 | 1471.8 | 1418.3 | 1364.7 | 1345.1 | 1346.6 | 1348.1 | 1346.6 | 1361.7 | 1408.5 | 1495.2 |
| 42.5° | 1745.5 | 1679.9 | 1586.4 | 1475.6 | 1419.8 | 1401.7 | 1403.9 | 1405.4 | 1428.8 | 1496.7 | 1593.2 |
| 45° | 1956.6 | 1914.4 | 1805.8 | 1632.4 | 1512.5 | 1466.5 | 1465.0 | 1468.0 | 1506.5 | 1602.2 | 1704.0 |
| 47.5° | 2142.1 | 2152.7 | 2072.7 | 1869.1 | 1663.3 | 1546.4 | 1536.6 | 1541.9 | 1604.5 | 1707.0 | 1810.3 |
| 50° | 2289.1 | 2358.5 | 2352.5 | 2191.1 | 1907.6 | 1684.4 | 1649.7 | 1657.3 | 1731.2 | 1837.5 | 1930.2 |
| 52.5° | 2400.0 | 2541.0 | 2631.4 | 2567.3 | 2320.8 | 1934.7 | 1845.0 | 1832.2 | 1924.9 | 2037.3 | 2094.6 |
| 55° | 2473.9 | 2702.3 | 2939.8 | 3050.7 | 2950.4 | 2475.4 | 2240.9 | 2213.0 | 2313.3 | 2456.5 | 2481.4 |
| 57.5° | 2522.9 | 2898.4 | 3409.6 | 3837.8 | 3974.3 | 3567.1 | 3273.1 | 3156.2 | 3229.4 | 3380.9 | 3348.5 |
| 60° | 2441.4 | 2976.0 | 3976.6 | 4744.1 | 5132.4 | 5031.4 | 4704.2 | 4527.7 | 4391.3 | 4379.9 | 4199.7 |
| 62.5° | 2129.3 | 2791.3 | 4206.5 | 5175.4 | 5721.3 | 5847.2 | 5789.2 | 5580.3 | 5202.6 | 4992.9 | 4585.8 |
| 65° | 1606.0 | 2286.9 | 4042.9 | 5142.2 | 5654.2 | 5933.2 | 6122.4 | 5972.4 | 5399.3 | 5036.7 | 4495.3 |
| 67.5° | 1026.2 | 1476.3 | 3362.8 | 4743.4 | 5224.4 | 5538.1 | 5916.6 | 5848.0 | 5115.8 | 4652.9 | 4064.0 |
| 70° | 749.5 | 818.1 | 2281.6 | 4015.0 | 4544.3 | 4820.3 | 5340.5 | 5310.4 | 4486.3 | 3966.0 | 3382.4 |
| 72.5° | 863.3 | 610.0 | 1250.9 | 2999.4 | 3408.8 | 3626.0 | 3923.8 | 3850.6 | 3134.4 | 2773.2 | 2360.0 |
| 75° | 973.4 | 682.4 | 705.0 | 1779.4 | 1904.6 | 1752.3 | 1793.0 | 1557.0 | 1214.7 | 1076.7 | 1060.9 |
| 77.5° | 819.6 | 855.8 | 639.4 | 764.5 | 704.2 | 507.4 | 380.0 | 297.8 | 233.0 | 250.3 | 278.2 |
| 80° | 476.5 | 962.1 | 846.0 | 398.1 | 446.4 | 355.1 | 158.3 | 131.2 | 108.6 | 110.1 | 111.6 |
| 82.5° | 147.0 | 600.9 | 1190.6 | 486.3 | 441.8 | 500.7 | 145.5 | 89.0 | 71.6 | 80.7 | 91.2 |
| 85° | 49.0 | 251.8 | 954.6 | 510.5 | 285.8 | 266.9 | 64.1 | 43.7 | 36.2 | 50.5 | 71.6 |
| 87.5° | 12.1 | 61.1 | 177.2 | 67.1 | 42.2 | 25.6 | 21.9 | 15.8 | 17.3 | 31.7 | 44.5 |
| 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: ECM-F03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 |
| 2.5° | 611.5 | 609.2 | 607.0 | 605.5 | 603.2 | 603.2 | 600.9 | 600.9 | 597.9 | 596.4 | 596.4 |
| 5° | 616.0 | 611.5 | 607.7 | 603.9 | 600.2 | 598.7 | 595.7 | 594.1 | 591.1 | 588.9 | 587.4 |
| 7.5° | 631.1 | 625.1 | 620.5 | 616.0 | 611.5 | 609.2 | 606.2 | 603.2 | 602.4 | 600.9 | 599.4 |
| 10° | 656.7 | 648.4 | 644.7 | 641.6 | 635.6 | 634.1 | 631.1 | 628.8 | 626.6 | 624.3 | 625.1 |
| 12.5° | 689.9 | 683.9 | 682.4 | 676.3 | 674.8 | 672.6 | 668.0 | 666.5 | 660.5 | 656.0 | 653.7 |
| 15° | 732.1 | 729.9 | 729.9 | 726.8 | 722.3 | 718.6 | 711.8 | 708.0 | 697.4 | 690.7 | 683.1 |
| 17.5° | 787.9 | 785.7 | 786.4 | 783.4 | 778.1 | 771.3 | 763.8 | 752.5 | 736.7 | 724.6 | 709.5 |
| 20° | 852.8 | 852.0 | 853.5 | 851.3 | 844.5 | 835.4 | 817.3 | 800.7 | 778.9 | 757.0 | 740.4 |
| 22.5° | 925.1 | 928.9 | 930.4 | 924.4 | 916.9 | 898.0 | 878.4 | 854.3 | 824.9 | 796.2 | 772.8 |
| 25° | 1002.1 | 1011.1 | 1016.4 | 1008.1 | 999.0 | 974.9 | 945.5 | 913.1 | 871.6 | 836.9 | 806.0 |
| 27.5° | 1077.5 | 1096.3 | 1103.8 | 1099.3 | 1085.0 | 1051.1 | 1011.9 | 968.9 | 918.4 | 872.4 | 832.4 |
| 30° | 1167.2 | 1192.1 | 1205.6 | 1198.8 | 1171.0 | 1126.5 | 1079.0 | 1020.9 | 956.8 | 901.8 | 853.5 |
| 32.5° | 1261.4 | 1292.3 | 1302.1 | 1287.8 | 1247.1 | 1191.3 | 1129.5 | 1058.6 | 986.2 | 922.9 | 868.6 |
| 35° | 1366.2 | 1394.9 | 1397.1 | 1369.3 | 1315.7 | 1244.8 | 1167.9 | 1082.7 | 999.8 | 928.9 | 869.4 |
| 37.5° | 1457.5 | 1486.1 | 1483.9 | 1442.4 | 1377.5 | 1289.3 | 1191.3 | 1088.0 | 991.5 | 910.8 | 846.0 |
| 40° | 1553.2 | 1584.9 | 1567.6 | 1514.0 | 1430.3 | 1318.0 | 1194.3 | 1069.9 | 959.8 | 871.6 | 800.7 |
| 42.5° | 1654.3 | 1667.8 | 1636.9 | 1569.8 | 1462.0 | 1317.2 | 1168.7 | 1026.9 | 910.1 | 812.1 | 737.4 |
| 45° | 1747.0 | 1736.4 | 1692.0 | 1602.2 | 1459.7 | 1284.8 | 1118.2 | 973.4 | 843.7 | 745.7 | 672.6 |
| 47.5° | 1829.9 | 1796.8 | 1728.2 | 1602.2 | 1424.3 | 1227.5 | 1053.3 | 904.0 | 775.1 | 676.3 | 603.9 |
| 50° | 1919.7 | 1850.3 | 1743.2 | 1574.3 | 1360.2 | 1158.1 | 984.7 | 834.7 | 702.0 | 600.9 | 521.8 |
| 52.5° | 2038.8 | 1914.4 | 1743.2 | 1523.8 | 1293.9 | 1088.0 | 912.3 | 754.0 | 616.8 | 511.2 | 432.8 |
| 55° | 2317.8 | 2048.6 | 1773.4 | 1495.9 | 1235.0 | 1014.1 | 826.4 | 649.9 | 516.5 | 415.5 | 350.6 |
| 57.5° | 2865.9 | 2342.7 | 1924.9 | 1547.2 | 1213.2 | 934.2 | 715.5 | 534.6 | 407.9 | 323.5 | 269.2 |
| 60° | 3322.1 | 2580.2 | 2047.8 | 1586.4 | 1177.7 | 830.9 | 579.8 | 409.4 | 303.1 | 239.0 | 203.6 |
| 62.5° | 3439.7 | 2583.2 | 1997.3 | 1484.6 | 1034.5 | 676.3 | 427.5 | 282.0 | 208.1 | 173.4 | 154.6 |
| 65° | 3145.7 | 2284.6 | 1698.7 | 1210.9 | 787.9 | 469.7 | 267.7 | 171.2 | 138.7 | 126.7 | 119.1 |
| 67.5° | 2644.3 | 1820.1 | 1259.2 | 844.5 | 496.9 | 258.6 | 150.0 | 117.6 | 105.6 | 101.8 | 98.0 |
| 70° | 2028.2 | 1278.8 | 819.6 | 494.6 | 260.1 | 134.2 | 107.1 | 96.5 | 91.2 | 89.0 | 86.0 |
| 72.5° | 1250.1 | 755.5 | 445.6 | 237.5 | 129.7 | 102.5 | 95.8 | 92.0 | 85.2 | 82.2 | 79.2 |
| 75° | 530.8 | 324.2 | 184.7 | 120.6 | 104.1 | 98.0 | 92.7 | 88.2 | 82.9 | 78.4 | 75.4 |
| 77.5° | 178.7 | 123.7 | 109.3 | 105.6 | 104.1 | 98.0 | 91.2 | 85.2 | 79.9 | 74.6 | 71.6 |
| 80° | 108.6 | 98.8 | 101.0 | 100.3 | 104.1 | 97.3 | 88.2 | 81.4 | 75.4 | 70.1 | 66.4 |
| 82.5° | 94.2 | 93.5 | 95.8 | 98.0 | 103.3 | 93.5 | 82.9 | 73.1 | 65.6 | 60.3 | 56.5 |
| 85° | 81.4 | 82.9 | 84.4 | 86.0 | 89.0 | 79.2 | 67.1 | 58.1 | 52.0 | 45.2 | 42.2 |
| 87.5° | 54.3 | 58.8 | 61.8 | 62.6 | 60.3 | 37.7 | 21.9 | 25.6 | 26.4 | 22.6 | 20.4 |
| 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° | 617.5 | 617.5 | 617.5 | 617.5 | 617.5 |
| 2.5° | 594.1 | 593.4 | 595.7 | 593.4 | 593.4 |
| 5° | 586.6 | 585.9 | 585.9 | 585.9 | 584.3 |
| 7.5° | 598.7 | 597.9 | 597.2 | 597.2 | 596.4 |
| 10° | 622.0 | 621.3 | 621.3 | 620.5 | 620.5 |
| 12.5° | 649.9 | 646.9 | 646.2 | 644.7 | 645.4 |
| 15° | 677.1 | 668.8 | 666.5 | 664.3 | 662.0 |
| 17.5° | 698.2 | 688.4 | 683.1 | 678.6 | 678.6 |
| 20° | 724.6 | 711.8 | 705.0 | 698.2 | 698.2 |
| 22.5° | 754.7 | 737.4 | 728.4 | 720.8 | 717.8 |
| 25° | 779.6 | 757.8 | 744.9 | 735.9 | 733.6 |
| 27.5° | 798.5 | 770.6 | 754.0 | 743.4 | 740.4 |
| 30° | 813.6 | 781.9 | 762.3 | 751.0 | 746.5 |
| 32.5° | 823.4 | 788.7 | 767.6 | 756.3 | 751.7 |
| 35° | 818.1 | 781.1 | 755.5 | 741.9 | 738.9 |
| 37.5° | 791.7 | 752.5 | 722.3 | 708.0 | 702.7 |
| 40° | 743.4 | 701.2 | 669.5 | 652.2 | 649.2 |
| 42.5° | 680.1 | 637.9 | 607.7 | 589.6 | 581.3 |
| 45° | 612.2 | 568.5 | 539.9 | 523.3 | 513.5 |
| 47.5° | 539.1 | 496.1 | 466.7 | 450.1 | 443.3 |
| 50° | 462.2 | 420.7 | 395.8 | 377.8 | 371.0 |
| 52.5° | 382.3 | 345.3 | 320.4 | 305.4 | 297.8 |
| 55° | 306.1 | 276.0 | 254.8 | 245.0 | 239.8 |
| 57.5° | 239.0 | 219.4 | 207.3 | 201.3 | 197.5 |
| 60° | 185.5 | 175.7 | 171.2 | 166.6 | 167.4 |
| 62.5° | 144.8 | 142.5 | 141.0 | 138.7 | 139.5 |
| 65° | 116.9 | 115.4 | 116.1 | 115.4 | 116.1 |
| 67.5° | 95.8 | 96.5 | 98.0 | 98.0 | 98.8 |
| 70° | 84.4 | 85.2 | 86.7 | 86.7 | 86.7 |
| 72.5° | 78.4 | 79.9 | 81.4 | 80.7 | 80.7 |
| 75° | 73.9 | 77.7 | 80.7 | 77.7 | 74.6 |
| 77.5° | 69.4 | 78.4 | 86.7 | 79.9 | 71.6 |
| 80° | 63.3 | 82.9 | 92.7 | 80.7 | 68.6 |
| 82.5° | 60.3 | 79.9 | 81.4 | 70.1 | 60.3 |
| 85° | 55.8 | 90.5 | 94.2 | 64.1 | 46.0 |
| 87.5° | 28.7 | 54.3 | 62.6 | 43.0 | 23.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)