

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: P142046

Luminaire Tested: **ECM-F03-LED-E1-T4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P142046
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-T4-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7308 lumens
Efficiency: N/A
Efficacy: 93.3 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

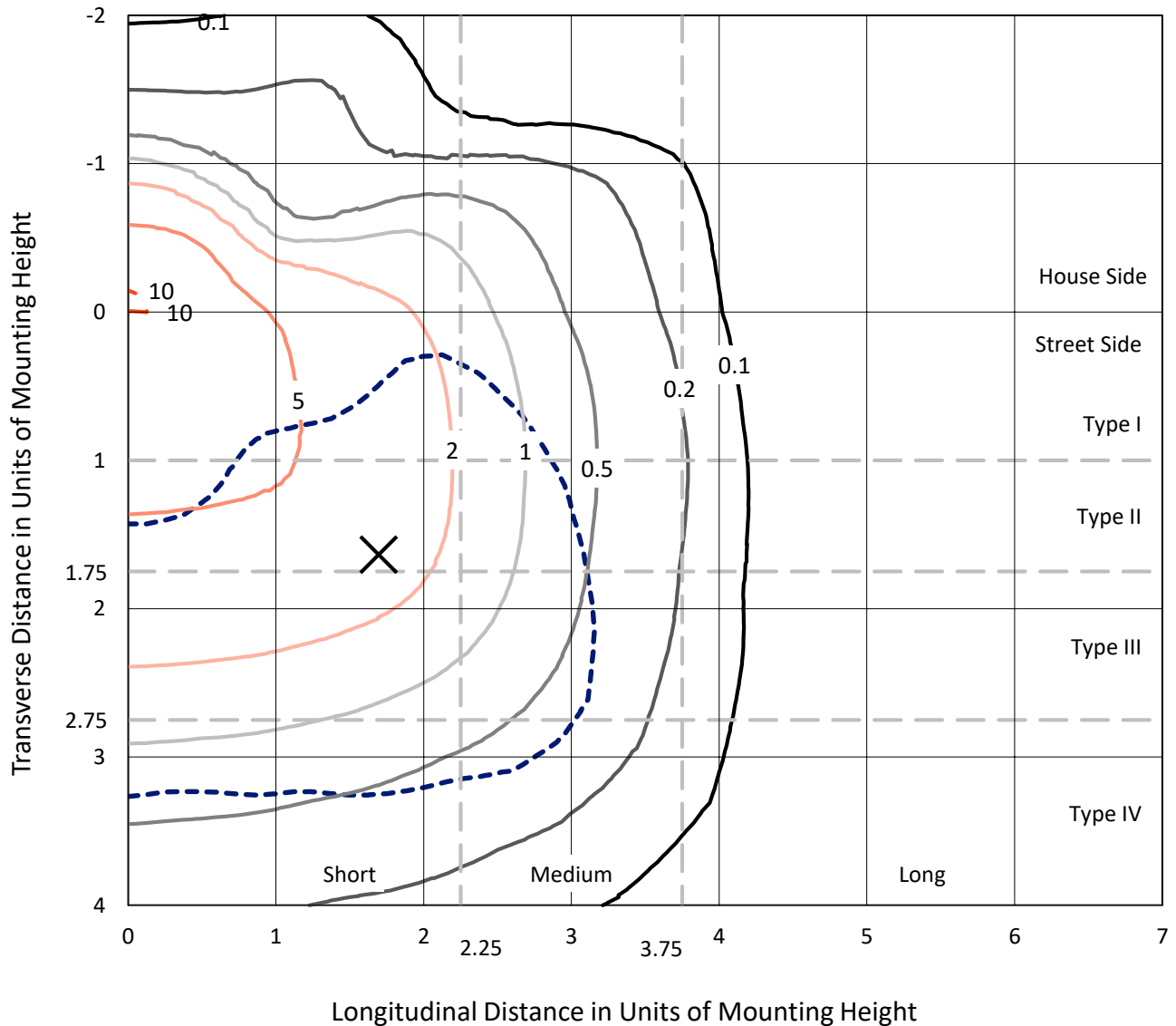
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P142046
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Iso-Footcandle Lines of Horizontal Illumination

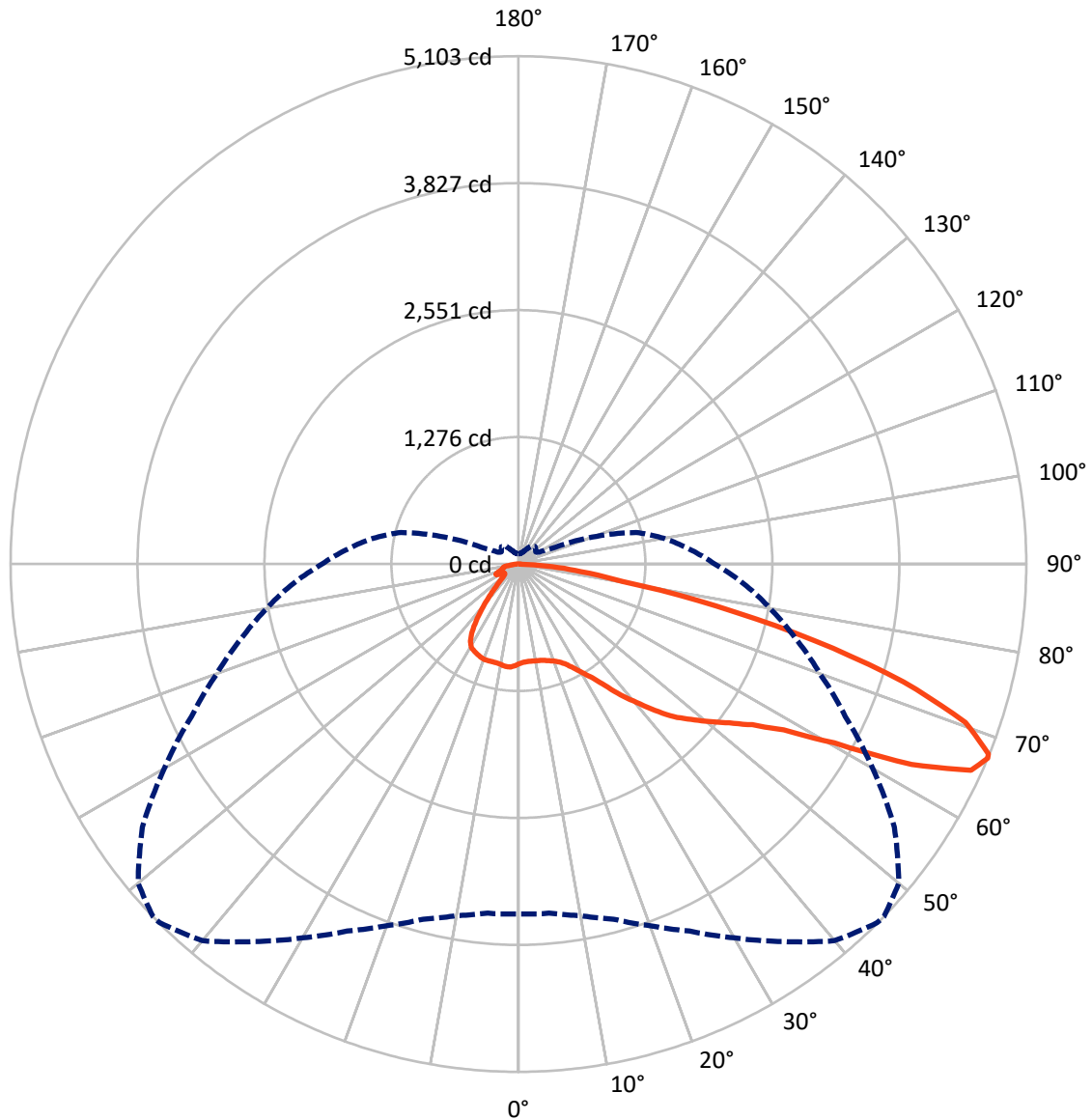
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1452.2 | 0.0 | 1452.2 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| Street Side | Lumens | 5855.7 | 0.0 | 5855.7 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| Total | Lumens | 7308.0 | 0.0 | 7308.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.3 | 1.3 |
| 10°-20° | 287.6 | 3.9 |
| 20°-30° | 483.6 | 6.6 |
| 30°-40° | 723.2 | 9.9 |
| 40°-50° | 942.0 | 12.9 |
| 50°-60° | 1290.1 | 17.7 |
| 60°-70° | 2039.6 | 27.9 |
| 70°-80° | 1265.1 | 17.3 |
| 80°-90° | 180.3 | 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° | 7308.0 | 100.0 |
| 0°-180° | 7308.0 | 100.0 |



REPORT NUMBER: P142046

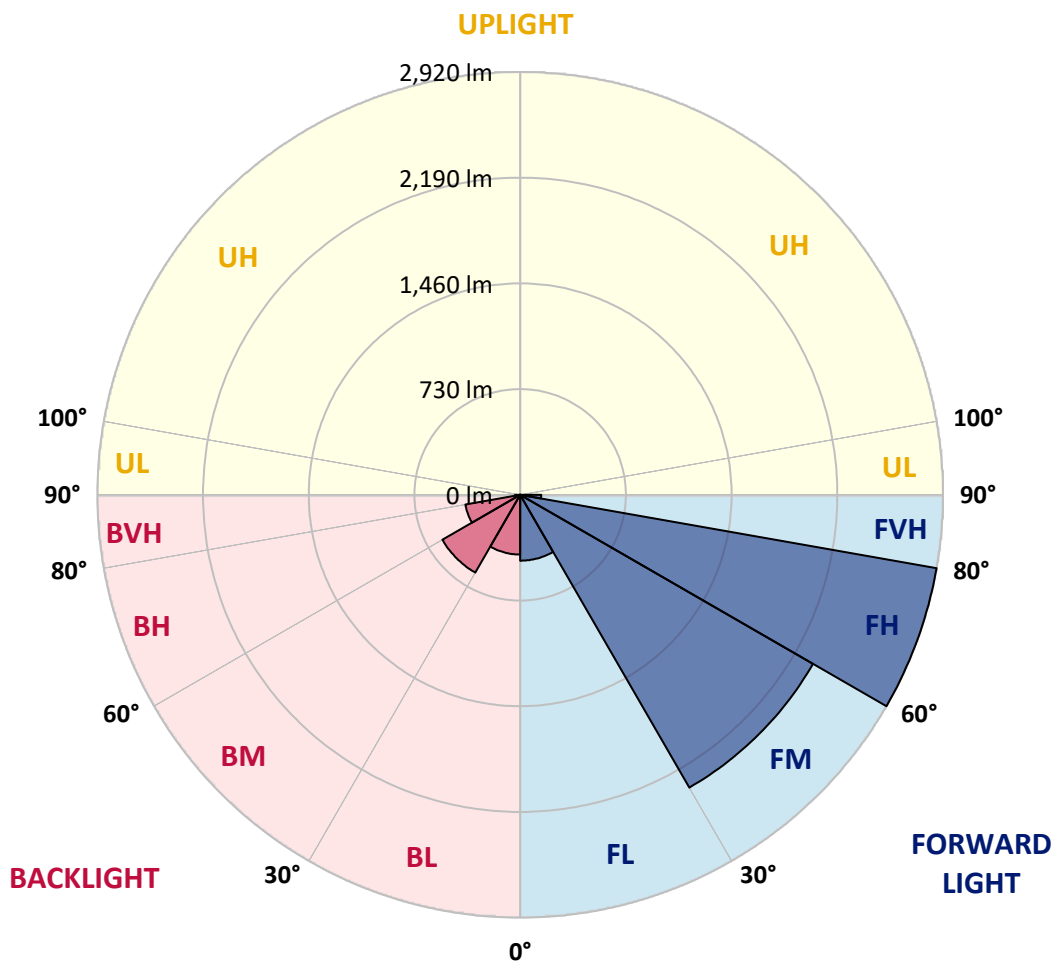
CATALOG NUMBER: ECM-F03-LED-E1-T4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 455.1 | 6.2 | | | |
| FM | (30°-60°) | 2335.2 | 32.0 | | | |
| FH | (60°-80°) | 2920.3 | 40.0 | | | G2/5000 |
| FVH | (80°-90°) | 145.2 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 412.5 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 620.2 | 8.5 | B1/1000 | | |
| BH | (60°-80°) | 384.4 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 35.1 | 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° | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 |
| 2.5° | 979.2 | 981.8 | 980.9 | 980.1 | 980.9 | 981.8 | 982.6 | 985.1 | 986.0 | 986.8 | 987.7 |
| 5° | 961.4 | 964.0 | 963.1 | 964.8 | 965.7 | 969.1 | 971.6 | 975.8 | 978.4 | 981.8 | 983.5 |
| 7.5° | 956.3 | 958.0 | 958.0 | 959.7 | 960.6 | 964.0 | 968.2 | 973.3 | 978.4 | 983.5 | 985.1 |
| 10° | 969.9 | 970.7 | 970.7 | 969.9 | 970.7 | 972.4 | 974.1 | 978.4 | 982.6 | 986.8 | 988.5 |
| 12.5° | 1002.1 | 999.5 | 998.7 | 996.2 | 997.0 | 993.6 | 993.6 | 992.8 | 992.8 | 993.6 | 993.6 |
| 15° | 1036.0 | 1034.3 | 1032.6 | 1028.3 | 1028.3 | 1023.3 | 1021.6 | 1018.2 | 1009.7 | 1006.3 | 1005.5 |
| 17.5° | 1066.5 | 1064.8 | 1061.4 | 1058.0 | 1056.3 | 1049.5 | 1047.8 | 1041.9 | 1031.7 | 1024.1 | 1021.6 |
| 20° | 1102.9 | 1098.7 | 1091.0 | 1089.3 | 1085.1 | 1077.5 | 1074.9 | 1067.3 | 1053.8 | 1042.8 | 1041.9 |
| 22.5° | 1158.8 | 1152.0 | 1144.4 | 1138.5 | 1127.5 | 1119.8 | 1113.1 | 1102.9 | 1086.8 | 1074.1 | 1070.7 |
| 25° | 1214.7 | 1212.2 | 1205.4 | 1196.9 | 1189.3 | 1180.8 | 1172.4 | 1157.1 | 1135.9 | 1119.8 | 1116.4 |
| 27.5° | 1293.5 | 1287.6 | 1279.1 | 1265.5 | 1261.3 | 1246.9 | 1240.1 | 1227.4 | 1206.2 | 1185.9 | 1182.5 |
| 30° | 1375.7 | 1369.7 | 1356.2 | 1344.3 | 1341.8 | 1326.5 | 1322.3 | 1308.7 | 1290.1 | 1269.8 | 1267.2 |
| 32.5° | 1469.7 | 1463.7 | 1453.6 | 1446.8 | 1437.5 | 1429.0 | 1418.9 | 1406.1 | 1382.4 | 1365.5 | 1362.1 |
| 35° | 1590.0 | 1584.9 | 1573.0 | 1578.1 | 1569.6 | 1567.1 | 1561.2 | 1540.0 | 1513.7 | 1493.4 | 1496.8 |
| 37.5° | 1684.8 | 1684.0 | 1686.5 | 1684.0 | 1695.0 | 1706.0 | 1706.0 | 1707.7 | 1695.0 | 1673.0 | 1668.7 |
| 40° | 1773.8 | 1772.9 | 1779.7 | 1787.3 | 1817.0 | 1834.8 | 1855.1 | 1862.7 | 1849.2 | 1832.2 | 1826.3 |
| 42.5° | 1856.8 | 1855.1 | 1864.4 | 1892.4 | 1928.8 | 1961.8 | 1996.6 | 2026.2 | 2033.0 | 2014.3 | 2010.1 |
| 45° | 1939.0 | 1941.5 | 1953.4 | 1984.7 | 2033.0 | 2076.2 | 2135.5 | 2170.2 | 2192.2 | 2182.1 | 2188.8 |
| 47.5° | 2038.1 | 2040.6 | 2053.3 | 2090.6 | 2132.9 | 2187.1 | 2256.6 | 2315.9 | 2342.2 | 2342.2 | 2333.7 |
| 50° | 2155.8 | 2167.7 | 2181.2 | 2206.6 | 2255.8 | 2309.1 | 2393.8 | 2453.1 | 2495.5 | 2493.8 | 2487.0 |
| 52.5° | 2312.5 | 2315.1 | 2337.1 | 2357.4 | 2399.8 | 2454.0 | 2530.2 | 2611.5 | 2664.9 | 2659.8 | 2652.2 |
| 55° | 2523.4 | 2513.3 | 2527.7 | 2547.2 | 2592.9 | 2640.3 | 2723.3 | 2817.4 | 2871.6 | 2855.5 | 2850.4 |
| 57.5° | 2789.4 | 2780.9 | 2791.1 | 2814.8 | 2872.4 | 2911.4 | 2978.3 | 3064.7 | 3141.0 | 3154.5 | 3142.7 |
| 60° | 3173.1 | 3173.1 | 3193.5 | 3244.3 | 3302.7 | 3361.2 | 3446.8 | 3550.9 | 3629.7 | 3649.2 | 3648.4 |
| 62.5° | 3628.0 | 3656.8 | 3661.1 | 3727.1 | 3838.9 | 3939.7 | 4072.7 | 4256.6 | 4374.3 | 4458.2 | 4436.1 |
| 65° | 3700.9 | 3710.2 | 3747.5 | 3850.0 | 4001.6 | 4180.3 | 4387.0 | 4628.4 | 4873.2 | 4994.4 | 4997.7 |
| 67° | 3517.9 | 3521.3 | 3586.5 | 3694.1 | 3867.7 | 4069.4 | 4337.0 | 4631.0 | 4941.0 | 5097.7 | 5102.8 |
| 67.5° | 3461.2 | 3454.4 | 3512.8 | 3625.5 | 3815.2 | 4042.2 | 4293.8 | 4603.0 | 4923.2 | 5090.9 | 5093.5 |
| 70° | 3080.8 | 3084.2 | 3129.9 | 3255.3 | 3456.1 | 3668.7 | 3949.9 | 4267.6 | 4604.7 | 4758.0 | 4765.6 |
| 72.5° | 2656.4 | 2634.4 | 2675.9 | 2809.7 | 2905.5 | 3113.0 | 3371.4 | 3611.1 | 3907.6 | 4052.4 | 4049.0 |
| 75° | 2026.2 | 1965.2 | 2038.1 | 2116.0 | 2169.4 | 2375.2 | 2536.1 | 2701.3 | 2974.9 | 3085.0 | 3079.1 |
| 77.5° | 1091.9 | 1089.3 | 1169.0 | 1230.0 | 1309.6 | 1495.1 | 1636.6 | 1740.7 | 1971.1 | 2025.4 | 2032.1 |
| 80° | 593.0 | 615.0 | 662.4 | 730.2 | 794.6 | 883.5 | 965.7 | 1030.9 | 1106.3 | 1071.6 | 1063.9 |
| 82.5° | 357.5 | 393.9 | 466.7 | 518.4 | 543.8 | 583.6 | 642.1 | 679.4 | 709.0 | 644.6 | 631.9 |
| 85° | 56.8 | 102.5 | 263.4 | 315.1 | 342.2 | 360.9 | 373.6 | 398.1 | 363.4 | 340.5 | 346.5 |
| 87.5° | 18.6 | 21.2 | 40.7 | 89.8 | 78.8 | 54.2 | 71.2 | 103.3 | 49.1 | 26.3 | 25.4 |
| 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: P142046

CATALOG NUMBER: ECM-F03-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 |
| 2.5° | 988.5 | 989.4 | 991.9 | 995.3 | 997.0 | 1001.2 | 1001.2 | 1004.6 | 1004.6 | 1007.2 | 1009.7 |
| 5° | 986.0 | 990.2 | 993.6 | 998.7 | 1001.2 | 1007.2 | 1009.7 | 1014.8 | 1017.3 | 1020.7 | 1024.1 |
| 7.5° | 990.2 | 996.2 | 1000.4 | 1006.3 | 1010.6 | 1016.5 | 1019.0 | 1023.3 | 1025.8 | 1030.0 | 1031.7 |
| 10° | 993.6 | 999.5 | 1004.6 | 1011.4 | 1014.8 | 1019.0 | 1021.6 | 1025.0 | 1025.8 | 1028.3 | 1030.0 |
| 12.5° | 997.9 | 1000.4 | 1004.6 | 1010.6 | 1013.9 | 1016.5 | 1019.0 | 1021.6 | 1024.1 | 1024.1 | 1024.1 |
| 15° | 1003.8 | 1001.2 | 1002.1 | 1007.2 | 1010.6 | 1012.3 | 1014.8 | 1016.5 | 1017.3 | 1017.3 | 1015.6 |
| 17.5° | 1016.5 | 1009.7 | 1005.5 | 1005.5 | 1007.2 | 1008.9 | 1008.9 | 1006.3 | 1004.6 | 1002.1 | 998.7 |
| 20° | 1035.1 | 1024.1 | 1015.6 | 1011.4 | 1008.0 | 1003.8 | 997.0 | 988.5 | 980.9 | 974.1 | 969.9 |
| 22.5° | 1061.4 | 1050.4 | 1040.2 | 1030.9 | 1019.9 | 1005.5 | 991.1 | 973.3 | 958.9 | 947.9 | 943.6 |
| 25° | 1110.5 | 1094.4 | 1086.8 | 1072.4 | 1055.5 | 1032.6 | 1010.6 | 986.0 | 969.1 | 953.8 | 947.0 |
| 27.5° | 1176.6 | 1163.9 | 1146.9 | 1139.3 | 1117.3 | 1091.0 | 1066.5 | 1036.8 | 1013.1 | 994.5 | 981.8 |
| 30° | 1260.4 | 1252.0 | 1237.6 | 1224.9 | 1203.7 | 1180.0 | 1143.6 | 1110.5 | 1069.0 | 1036.0 | 1017.3 |
| 32.5° | 1357.0 | 1344.3 | 1331.6 | 1315.5 | 1300.3 | 1268.9 | 1235.0 | 1185.1 | 1127.5 | 1070.7 | 1036.0 |
| 35° | 1478.1 | 1465.4 | 1457.0 | 1431.6 | 1406.1 | 1372.3 | 1326.5 | 1267.2 | 1186.8 | 1110.5 | 1051.2 |
| 37.5° | 1645.0 | 1617.9 | 1576.4 | 1540.0 | 1494.2 | 1442.6 | 1390.9 | 1319.7 | 1230.0 | 1130.8 | 1049.5 |
| 40° | 1789.9 | 1750.1 | 1703.5 | 1640.8 | 1576.4 | 1508.6 | 1447.7 | 1370.6 | 1265.5 | 1147.8 | 1037.7 |
| 42.5° | 1977.9 | 1909.3 | 1830.5 | 1747.5 | 1659.4 | 1578.1 | 1502.7 | 1414.6 | 1291.8 | 1148.6 | 1009.7 |
| 45° | 2147.3 | 2062.6 | 1958.4 | 1845.8 | 1738.2 | 1639.1 | 1552.7 | 1455.3 | 1313.8 | 1145.2 | 977.5 |
| 47.5° | 2298.1 | 2199.0 | 2071.9 | 1936.4 | 1809.4 | 1697.5 | 1602.7 | 1500.2 | 1342.6 | 1156.3 | 965.7 |
| 50° | 2443.8 | 2330.3 | 2187.1 | 2022.8 | 1881.4 | 1759.4 | 1660.3 | 1550.1 | 1390.9 | 1193.5 | 984.3 |
| 52.5° | 2599.7 | 2461.6 | 2299.8 | 2114.3 | 1960.1 | 1833.9 | 1723.0 | 1610.3 | 1448.5 | 1243.5 | 1018.2 |
| 55° | 2790.3 | 2633.6 | 2448.9 | 2243.9 | 2066.9 | 1926.2 | 1800.9 | 1682.3 | 1517.1 | 1305.3 | 1058.0 |
| 57.5° | 3044.4 | 2886.0 | 2673.4 | 2437.0 | 2251.5 | 2084.7 | 1933.9 | 1800.0 | 1621.3 | 1390.9 | 1117.3 |
| 60° | 3534.0 | 3338.3 | 3055.4 | 2798.7 | 2598.0 | 2401.5 | 2219.3 | 2036.4 | 1821.2 | 1563.7 | 1269.8 |
| 62.5° | 4320.1 | 4047.3 | 3696.6 | 3339.2 | 3068.1 | 2808.1 | 2567.5 | 2329.5 | 2060.9 | 1772.1 | 1451.0 |
| 65° | 4863.9 | 4526.8 | 4086.3 | 3638.2 | 3271.4 | 2953.8 | 2666.6 | 2383.7 | 2084.7 | 1809.4 | 1529.8 |
| 67° | 4988.4 | 4611.5 | 4110.0 | 3623.8 | 3224.8 | 2880.1 | 2567.5 | 2272.7 | 1972.0 | 1722.1 | 1483.2 |
| 67.5° | 4983.3 | 4607.2 | 4091.4 | 3593.3 | 3193.5 | 2853.8 | 2538.7 | 2228.7 | 1933.0 | 1688.2 | 1460.4 |
| 70° | 4681.8 | 4304.0 | 3785.6 | 3290.0 | 2904.6 | 2566.6 | 2249.0 | 1978.8 | 1677.2 | 1479.0 | 1307.9 |
| 72.5° | 3966.9 | 3638.2 | 3219.7 | 2774.2 | 2443.8 | 2141.4 | 1887.3 | 1622.1 | 1360.4 | 1228.3 | 1093.6 |
| 75° | 3016.4 | 2725.0 | 2341.3 | 2015.2 | 1763.6 | 1553.5 | 1298.6 | 1124.1 | 940.3 | 849.6 | 801.3 |
| 77.5° | 1993.2 | 1658.6 | 1393.4 | 1082.6 | 897.9 | 732.7 | 577.7 | 458.3 | 382.9 | 402.4 | 439.6 |
| 80° | 1054.6 | 836.9 | 619.2 | 479.4 | 370.2 | 288.0 | 228.7 | 171.1 | 124.5 | 145.7 | 183.0 |
| 82.5° | 574.3 | 489.6 | 361.7 | 288.0 | 235.5 | 194.8 | 149.9 | 105.0 | 77.9 | 86.4 | 124.5 |
| 85° | 327.8 | 288.0 | 223.6 | 174.5 | 152.5 | 124.5 | 85.6 | 57.6 | 55.9 | 60.1 | 77.1 |
| 87.5° | 54.2 | 72.8 | 59.3 | 40.7 | 45.7 | 44.9 | 39.8 | 30.5 | 22.9 | 32.2 | 41.5 |
| 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: P142046

CATALOG NUMBER: ECM-F03-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 | 1001.2 |
| 2.5° | 1011.4 | 1013.9 | 1017.3 | 1018.2 | 1017.3 | 1019.9 | 1024.1 | 1027.5 | 1025.0 | 1023.3 | 1027.5 |
| 5° | 1027.5 | 1029.2 | 1033.4 | 1033.4 | 1034.3 | 1036.0 | 1038.5 | 1041.1 | 1037.7 | 1037.7 | 1039.4 |
| 7.5° | 1034.3 | 1034.3 | 1038.5 | 1036.8 | 1036.8 | 1036.0 | 1038.5 | 1039.4 | 1034.3 | 1033.4 | 1034.3 |
| 10° | 1030.0 | 1030.0 | 1031.7 | 1028.3 | 1027.5 | 1026.7 | 1026.7 | 1027.5 | 1022.4 | 1020.7 | 1023.3 |
| 12.5° | 1024.1 | 1024.1 | 1022.4 | 1020.7 | 1019.0 | 1017.3 | 1019.0 | 1019.9 | 1016.5 | 1016.5 | 1017.3 |
| 15° | 1013.9 | 1011.4 | 1010.6 | 1010.6 | 1011.4 | 1012.3 | 1015.6 | 1018.2 | 1015.6 | 1013.9 | 1013.9 |
| 17.5° | 997.0 | 995.3 | 997.9 | 1002.9 | 1008.9 | 1013.1 | 1018.2 | 1019.9 | 1013.9 | 1007.2 | 1002.1 |
| 20° | 971.6 | 975.8 | 985.1 | 999.5 | 1012.3 | 1019.0 | 1019.0 | 1013.1 | 999.5 | 986.0 | 979.2 |
| 22.5° | 945.3 | 957.2 | 977.5 | 999.5 | 1014.8 | 1017.3 | 1008.0 | 995.3 | 976.7 | 962.3 | 949.6 |
| 25° | 948.7 | 963.1 | 983.5 | 1002.1 | 1012.3 | 1008.0 | 991.1 | 975.0 | 953.0 | 937.7 | 919.1 |
| 27.5° | 984.3 | 997.9 | 1008.0 | 1013.9 | 1010.6 | 997.0 | 977.5 | 955.5 | 930.9 | 909.8 | 887.7 |
| 30° | 1013.1 | 1019.0 | 1018.2 | 1013.1 | 1000.4 | 979.2 | 956.3 | 930.1 | 900.4 | 877.6 | 848.8 |
| 32.5° | 1018.2 | 1007.2 | 990.2 | 971.6 | 954.7 | 930.9 | 904.7 | 874.2 | 841.1 | 811.5 | 782.7 |
| 35° | 1008.9 | 967.4 | 930.1 | 892.8 | 867.4 | 837.8 | 814.9 | 779.3 | 742.9 | 717.5 | 696.3 |
| 37.5° | 974.1 | 902.1 | 842.8 | 790.3 | 753.1 | 719.2 | 684.4 | 649.7 | 619.2 | 607.4 | 601.4 |
| 40° | 930.1 | 821.7 | 731.0 | 658.2 | 618.4 | 585.3 | 549.8 | 521.8 | 507.4 | 496.4 | 492.2 |
| 42.5° | 865.7 | 730.2 | 617.5 | 539.6 | 488.8 | 458.3 | 423.5 | 408.3 | 401.5 | 404.1 | 400.7 |
| 45° | 805.6 | 634.5 | 493.0 | 406.6 | 371.9 | 343.1 | 326.1 | 319.3 | 316.0 | 314.3 | 316.8 |
| 47.5° | 763.2 | 560.8 | 397.3 | 309.2 | 280.4 | 260.1 | 253.3 | 250.7 | 249.9 | 246.5 | 245.7 |
| 50° | 753.1 | 517.6 | 325.3 | 240.6 | 218.5 | 207.5 | 204.1 | 201.6 | 199.9 | 197.4 | 191.4 |
| 52.5° | 764.9 | 505.7 | 289.7 | 206.7 | 188.1 | 179.6 | 177.0 | 172.8 | 171.1 | 164.3 | 156.7 |
| 55° | 785.2 | 509.9 | 278.7 | 197.4 | 178.7 | 169.4 | 166.0 | 164.3 | 158.4 | 150.8 | 141.5 |
| 57.5° | 827.6 | 536.2 | 283.8 | 199.9 | 180.4 | 172.0 | 170.3 | 168.6 | 160.9 | 149.9 | 138.1 |
| 60° | 950.4 | 612.4 | 310.0 | 217.7 | 194.0 | 188.1 | 188.9 | 185.5 | 174.5 | 160.1 | 142.3 |
| 62.5° | 1140.2 | 731.0 | 358.3 | 239.7 | 216.0 | 216.0 | 221.1 | 218.5 | 201.6 | 177.9 | 152.5 |
| 65° | 1238.4 | 802.2 | 378.6 | 246.5 | 222.8 | 233.8 | 249.9 | 247.3 | 222.8 | 187.2 | 153.3 |
| 67° | 1223.2 | 788.6 | 366.8 | 236.3 | 210.1 | 224.5 | 240.6 | 241.4 | 214.3 | 178.7 | 146.5 |
| 67.5° | 1208.8 | 779.3 | 360.9 | 232.1 | 206.7 | 221.1 | 236.3 | 233.8 | 210.9 | 175.3 | 144.8 |
| 70° | 1086.0 | 684.4 | 321.9 | 216.9 | 191.4 | 195.7 | 199.9 | 196.5 | 178.7 | 155.0 | 133.8 |
| 72.5° | 937.7 | 568.4 | 283.8 | 207.5 | 183.0 | 176.2 | 176.2 | 170.3 | 158.4 | 142.3 | 127.1 |
| 75° | 714.9 | 442.2 | 249.0 | 197.4 | 172.8 | 162.6 | 160.9 | 156.7 | 146.5 | 134.7 | 121.1 |
| 77.5° | 436.2 | 316.8 | 216.0 | 182.1 | 160.1 | 151.6 | 152.5 | 149.9 | 139.8 | 128.8 | 116.0 |
| 80° | 218.5 | 205.0 | 181.3 | 158.4 | 144.8 | 136.4 | 137.2 | 132.1 | 123.7 | 115.2 | 105.0 |
| 82.5° | 133.8 | 141.5 | 127.1 | 120.3 | 111.8 | 102.5 | 79.6 | 93.2 | 90.6 | 83.0 | 78.8 |
| 85° | 88.9 | 88.1 | 79.6 | 70.3 | 64.4 | 55.9 | 50.0 | 50.8 | 55.9 | 57.6 | 57.6 |
| 87.5° | 43.2 | 41.5 | 38.1 | 35.6 | 33.9 | 28.0 | 26.3 | 29.6 | 29.6 | 31.3 | 30.5 |
| 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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| 2.5° | 1028.3 | 1030.0 | 1029.2 | 1031.7 | 1029.2 |
| 5° | 1040.2 | 1040.2 | 1041.1 | 1041.9 | 1041.1 |
| 7.5° | 1034.3 | 1033.4 | 1035.1 | 1036.8 | 1036.0 |
| 10° | 1023.3 | 1024.1 | 1025.8 | 1028.3 | 1028.3 |
| 12.5° | 1019.0 | 1019.9 | 1023.3 | 1025.8 | 1025.8 |
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| 17.5° | 1000.4 | 997.0 | 997.0 | 999.5 | 997.0 |
| 20° | 973.3 | 968.2 | 968.2 | 967.4 | 966.5 |
| 22.5° | 941.1 | 928.4 | 925.0 | 920.8 | 921.6 |
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| 27.5° | 869.1 | 849.6 | 840.3 | 832.7 | 830.1 |
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| 32.5° | 769.1 | 749.7 | 739.5 | 737.0 | 731.9 |
| 35° | 679.4 | 670.9 | 666.6 | 660.7 | 661.6 |
| 37.5° | 589.6 | 587.0 | 576.9 | 580.2 | 576.9 |
| 40° | 493.0 | 492.2 | 493.8 | 491.3 | 497.2 |
| 42.5° | 402.4 | 399.8 | 404.1 | 401.5 | 404.1 |
| 45° | 311.7 | 316.8 | 322.7 | 320.2 | 323.6 |
| 47.5° | 238.9 | 239.7 | 238.0 | 239.7 | 241.4 |
| 50° | 183.8 | 182.1 | 180.4 | 177.0 | 178.7 |
| 52.5° | 151.6 | 145.7 | 141.5 | 138.9 | 138.1 |
| 55° | 133.8 | 127.9 | 124.5 | 121.1 | 121.1 |
| 57.5° | 128.8 | 121.1 | 116.0 | 113.5 | 112.7 |
| 60° | 129.6 | 119.4 | 112.7 | 108.4 | 107.6 |
| 62.5° | 133.0 | 119.4 | 110.1 | 105.9 | 104.2 |
| 65° | 132.1 | 117.7 | 108.4 | 104.2 | 102.5 |
| 67° | 127.9 | 115.2 | 107.6 | 103.3 | 102.5 |
| 67.5° | 126.2 | 114.4 | 107.6 | 103.3 | 101.6 |
| 70° | 120.3 | 111.8 | 105.9 | 101.6 | 100.0 |
| 72.5° | 115.2 | 108.4 | 101.6 | 98.3 | 96.6 |
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| 77.5° | 105.0 | 97.4 | 93.2 | 88.9 | 85.6 |
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| 82.5° | 78.8 | 72.0 | 66.1 | 60.1 | 59.3 |
| 85° | 58.4 | 55.9 | 50.8 | 45.7 | 45.7 |
| 87.5° | 32.2 | 35.6 | 31.3 | 28.8 | 27.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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