

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: P141077

Luminaire Tested: **ECM-F02-LED-E1-SL3-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141077
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F02-LED-E1-SL3-7060
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902.7 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

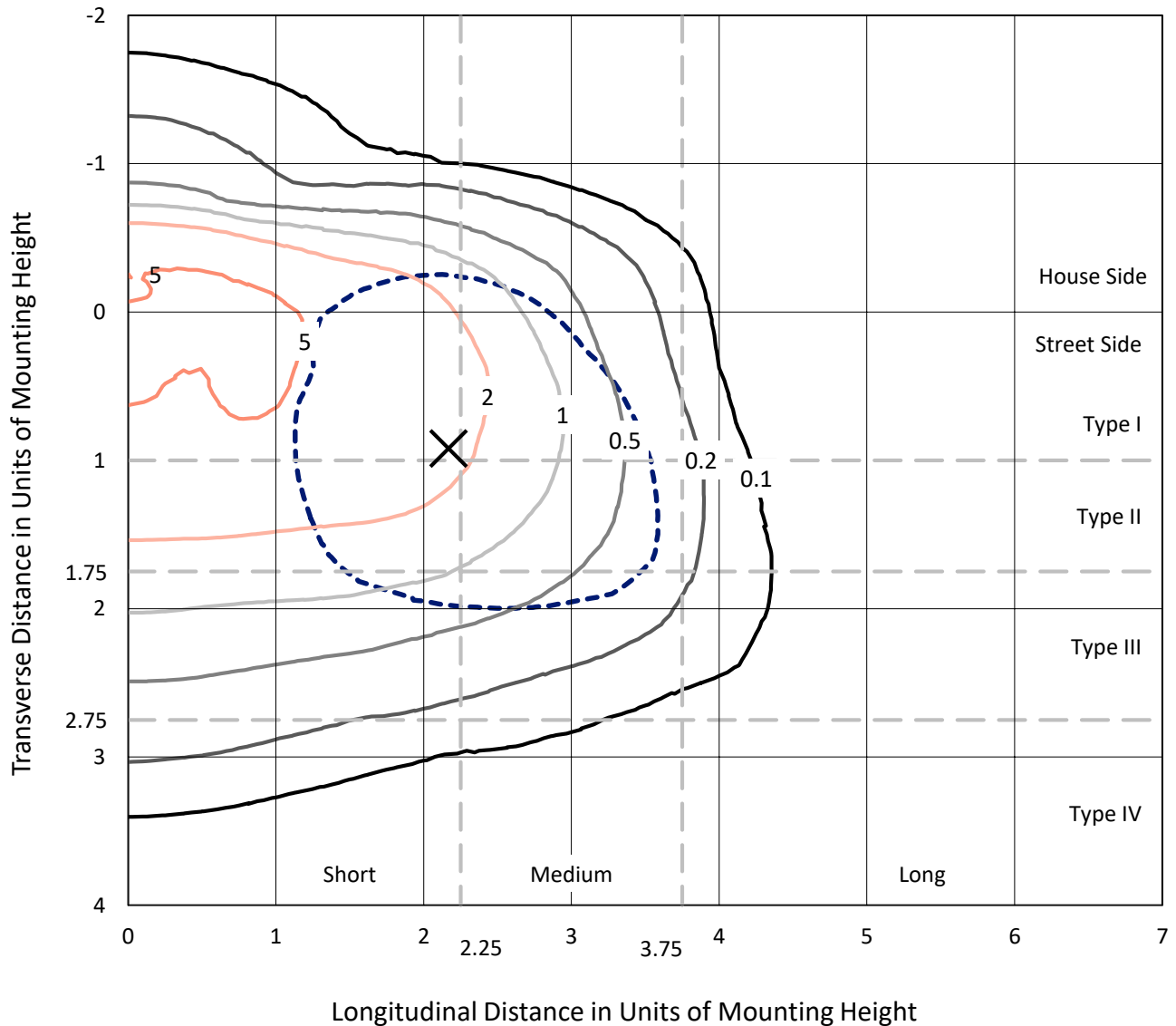
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P141077
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Iso-Footcandle Lines of Horizontal Illumination

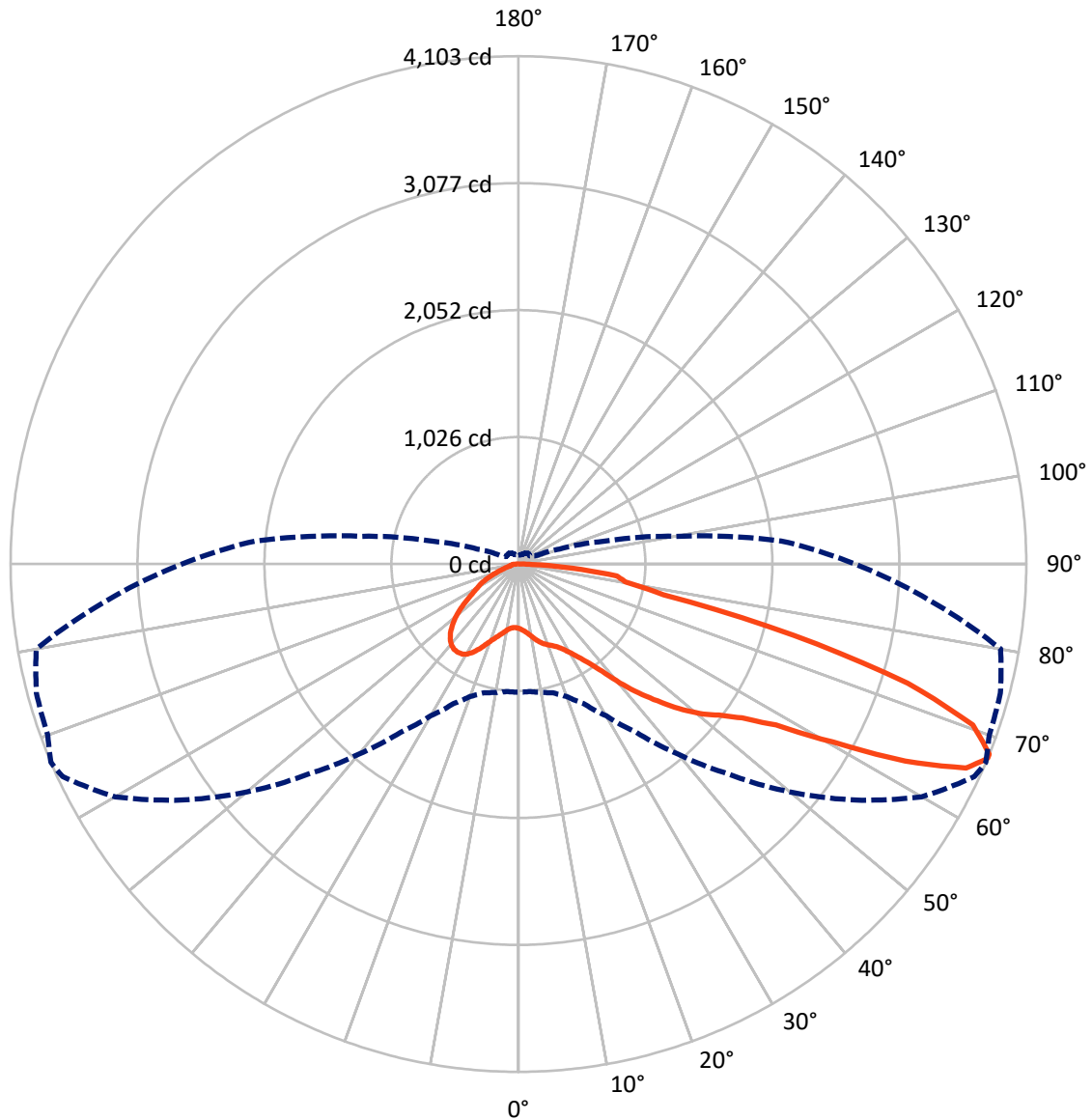
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1127.9 | 0.0 | 1127.9 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 3774.8 | 0.0 | 3774.8 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 4902.7 | 0.0 | 4902.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.1 | 1.1 |
| 10°-20° | 180.3 | 3.7 |
| 20°-30° | 320.9 | 6.5 |
| 30°-40° | 461.4 | 9.4 |
| 40°-50° | 703.1 | 14.3 |
| 50°-60° | 1027.1 | 20.9 |
| 60°-70° | 1383.9 | 28.2 |
| 70°-80° | 679.4 | 13.9 |
| 80°-90° | 94.5 | 1.9 |
| 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° | 4902.7 | 100.0 |
| 0°-180° | 4902.7 | 100.0 |



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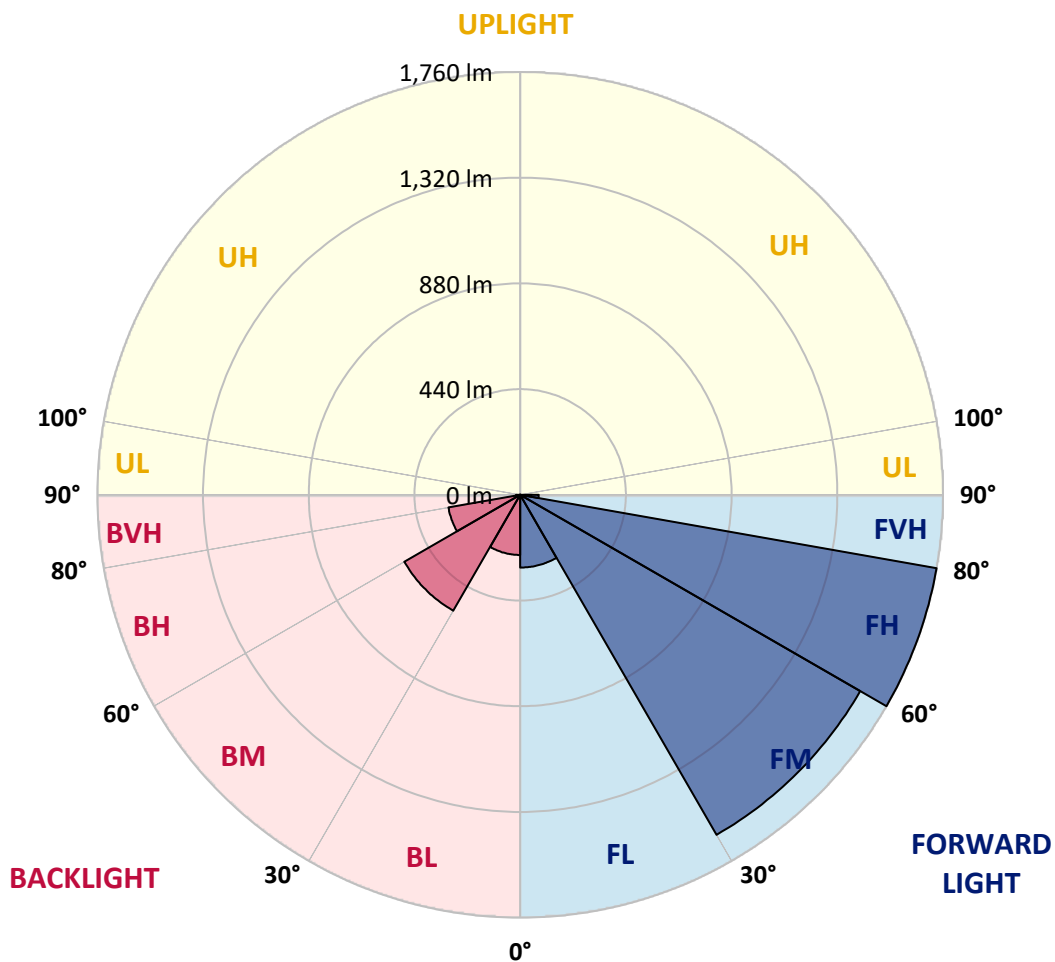
CATALOG NUMBER: ECM-F02-LED-E1-SL3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 302.8 | 6.2 | | | |
| FM | (30°-60°) | 1634.4 | 33.3 | | | |
| FH | (60°-80°) | 1760.1 | 35.9 | | | G1/1800 |
| FVH | (80°-90°) | 77.5 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 250.5 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 557.1 | 11.4 | B1/1000 | | |
| BH | (60°-80°) | 303.3 | 6.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 17.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P141077

CATALOG NUMBER: ECM-F02-LED-E1-SL3-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |
| 2.5° | 547.2 | 544.4 | 546.6 | 546.1 | 544.4 | 542.1 | 543.3 | 541.6 | 540.4 | 538.7 | 537.0 |
| 5° | 582.8 | 581.1 | 580.0 | 578.3 | 577.1 | 575.4 | 574.3 | 571.5 | 567.5 | 564.7 | 562.5 |
| 7.5° | 617.8 | 617.2 | 615.5 | 613.3 | 608.8 | 607.6 | 603.7 | 600.9 | 597.5 | 591.8 | 587.3 |
| 10° | 659.0 | 658.5 | 655.6 | 652.2 | 647.2 | 642.1 | 637.6 | 630.8 | 624.0 | 618.9 | 615.0 |
| 12.5° | 708.7 | 705.9 | 700.2 | 695.7 | 690.1 | 682.2 | 674.8 | 666.9 | 657.3 | 649.4 | 644.9 |
| 15° | 758.4 | 755.0 | 750.5 | 744.3 | 735.8 | 725.1 | 714.4 | 702.5 | 687.8 | 677.7 | 671.4 |
| 17.5° | 799.1 | 796.8 | 791.7 | 783.3 | 774.8 | 761.8 | 747.7 | 731.3 | 713.2 | 698.0 | 688.4 |
| 20° | 828.4 | 826.2 | 818.3 | 808.1 | 796.8 | 782.1 | 766.9 | 748.8 | 727.4 | 708.7 | 698.0 |
| 22.5° | 840.9 | 837.5 | 828.4 | 814.9 | 799.6 | 781.6 | 765.2 | 749.9 | 730.2 | 716.1 | 704.8 |
| 25° | 844.8 | 840.9 | 829.0 | 812.1 | 792.3 | 769.1 | 750.5 | 738.6 | 726.8 | 721.7 | 717.8 |
| 27.5° | 842.6 | 839.2 | 826.2 | 805.3 | 778.7 | 751.6 | 731.9 | 723.4 | 724.0 | 733.6 | 738.1 |
| 30° | 834.7 | 830.7 | 818.8 | 795.7 | 767.5 | 738.1 | 720.6 | 717.8 | 730.7 | 755.0 | 773.1 |
| 32.5° | 821.7 | 818.8 | 809.2 | 789.5 | 764.1 | 738.6 | 726.2 | 732.4 | 755.0 | 792.9 | 823.9 |
| 35° | 818.3 | 817.7 | 813.2 | 802.5 | 783.8 | 767.5 | 762.4 | 779.9 | 817.1 | 869.1 | 908.6 |
| 37.5° | 817.7 | 820.5 | 822.8 | 822.8 | 818.8 | 817.7 | 833.0 | 857.2 | 912.6 | 977.5 | 1041.9 |
| 40° | 829.0 | 834.1 | 845.4 | 860.1 | 874.2 | 894.5 | 925.6 | 971.3 | 1028.9 | 1108.0 | 1188.2 |
| 42.5° | 864.0 | 875.3 | 894.5 | 919.9 | 956.6 | 994.5 | 1044.7 | 1101.8 | 1175.7 | 1255.4 | 1335.0 |
| 45° | 932.3 | 948.7 | 962.8 | 1002.9 | 1051.5 | 1096.1 | 1161.6 | 1236.7 | 1318.0 | 1418.0 | 1503.8 |
| 47.5° | 1022.7 | 1034.6 | 1063.9 | 1106.3 | 1165.6 | 1229.4 | 1292.6 | 1358.1 | 1455.8 | 1560.3 | 1664.2 |
| 50° | 1113.1 | 1122.1 | 1153.2 | 1202.8 | 1280.8 | 1350.8 | 1423.1 | 1488.0 | 1572.2 | 1682.9 | 1784.5 |
| 52.5° | 1180.3 | 1192.7 | 1219.8 | 1268.4 | 1355.9 | 1435.5 | 1518.0 | 1589.7 | 1684.6 | 1783.9 | 1890.1 |
| 55° | 1226.6 | 1234.5 | 1259.3 | 1306.8 | 1389.2 | 1480.1 | 1573.3 | 1661.4 | 1774.3 | 1886.7 | 1992.3 |
| 57.5° | 1233.9 | 1241.8 | 1264.4 | 1306.2 | 1386.4 | 1481.8 | 1588.5 | 1696.4 | 1833.1 | 1981.6 | 2119.9 |
| 60° | 1225.4 | 1231.6 | 1251.4 | 1285.9 | 1361.5 | 1466.0 | 1593.1 | 1728.6 | 1896.9 | 2088.3 | 2286.0 |
| 62.5° | 1187.6 | 1193.8 | 1211.9 | 1240.1 | 1307.3 | 1420.3 | 1579.5 | 1776.0 | 1987.8 | 2228.4 | 2518.1 |
| 65° | 1116.4 | 1120.4 | 1137.3 | 1159.9 | 1227.7 | 1342.3 | 1518.0 | 1766.4 | 2059.5 | 2387.1 | 2762.0 |
| 67° | 1035.7 | 1034.0 | 1053.2 | 1075.8 | 1137.9 | 1243.5 | 1415.2 | 1659.7 | 2002.5 | 2399.5 | 2864.2 |
| 67.5° | 1010.8 | 1015.4 | 1034.0 | 1049.8 | 1110.2 | 1212.4 | 1376.8 | 1618.5 | 1953.9 | 2371.2 | 2862.6 |
| 70° | 834.7 | 843.1 | 853.3 | 863.5 | 916.5 | 991.6 | 1112.5 | 1346.3 | 1617.3 | 2012.7 | 2598.8 |
| 72.5° | 572.6 | 555.7 | 563.0 | 559.6 | 576.0 | 623.4 | 707.6 | 913.1 | 1128.3 | 1468.3 | 1929.1 |
| 75° | 290.3 | 308.9 | 306.6 | 320.8 | 343.9 | 373.8 | 412.8 | 489.6 | 658.5 | 858.4 | 1193.8 |
| 77.5° | 162.6 | 158.1 | 173.9 | 177.3 | 190.9 | 222.5 | 291.4 | 392.5 | 469.8 | 551.7 | 674.8 |
| 80° | 74.0 | 81.9 | 87.0 | 79.1 | 81.9 | 88.7 | 115.2 | 180.7 | 303.8 | 462.5 | 532.0 |
| 82.5° | 41.2 | 44.0 | 51.4 | 52.0 | 54.2 | 55.9 | 60.4 | 70.0 | 94.3 | 190.9 | 375.5 |
| 85° | 26.0 | 27.1 | 34.4 | 37.8 | 39.5 | 39.5 | 39.5 | 41.8 | 48.0 | 56.5 | 97.1 |
| 87.5° | 9.6 | 10.2 | 15.8 | 20.9 | 21.5 | 20.3 | 19.2 | 22.0 | 20.3 | 20.9 | 31.6 |
| 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: P141077

CATALOG NUMBER: ECM-F02-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |
| 2.5° | 535.9 | 533.7 | 531.4 | 530.8 | 529.1 | 528.0 | 525.2 | 522.9 | 520.7 | 519.0 | 517.3 |
| 5° | 557.4 | 552.9 | 548.9 | 547.2 | 545.0 | 542.1 | 536.5 | 532.5 | 529.1 | 525.8 | 522.4 |
| 7.5° | 581.7 | 576.0 | 570.4 | 568.1 | 564.7 | 559.6 | 553.4 | 548.9 | 543.3 | 538.2 | 533.7 |
| 10° | 608.8 | 602.6 | 598.0 | 595.8 | 593.0 | 585.6 | 581.7 | 573.8 | 567.5 | 560.8 | 555.1 |
| 12.5° | 638.1 | 635.3 | 629.1 | 626.8 | 624.0 | 618.9 | 613.3 | 606.5 | 598.6 | 591.3 | 584.5 |
| 15° | 664.7 | 660.2 | 656.2 | 655.6 | 653.9 | 651.1 | 643.8 | 636.4 | 629.7 | 620.1 | 614.4 |
| 17.5° | 681.0 | 679.4 | 678.8 | 678.2 | 677.1 | 675.4 | 672.0 | 664.1 | 657.9 | 650.0 | 642.1 |
| 20° | 691.2 | 692.9 | 695.7 | 698.0 | 699.1 | 700.2 | 698.6 | 690.6 | 684.4 | 677.7 | 670.9 |
| 22.5° | 701.9 | 706.5 | 713.8 | 717.2 | 721.1 | 726.8 | 725.7 | 720.6 | 717.2 | 709.3 | 704.2 |
| 25° | 717.2 | 726.2 | 738.6 | 743.2 | 750.5 | 757.9 | 759.5 | 756.7 | 753.3 | 747.7 | 747.7 |
| 27.5° | 743.2 | 756.2 | 772.5 | 782.1 | 789.5 | 799.6 | 803.0 | 801.3 | 801.9 | 798.5 | 806.4 |
| 30° | 783.8 | 801.9 | 823.9 | 834.1 | 843.1 | 855.0 | 857.2 | 860.6 | 858.4 | 864.6 | 874.2 |
| 32.5° | 845.4 | 868.0 | 890.6 | 900.2 | 908.1 | 920.5 | 927.8 | 925.6 | 933.5 | 937.4 | 951.0 |
| 35° | 940.3 | 962.8 | 980.3 | 982.0 | 991.1 | 997.9 | 1004.6 | 1002.4 | 1023.8 | 1032.3 | 1039.6 |
| 37.5° | 1071.3 | 1090.5 | 1101.2 | 1097.2 | 1086.5 | 1099.5 | 1108.5 | 1122.1 | 1135.6 | 1150.9 | 1123.8 |
| 40° | 1241.2 | 1271.7 | 1267.2 | 1261.6 | 1241.2 | 1244.1 | 1248.0 | 1255.4 | 1278.0 | 1272.9 | 1195.5 |
| 42.5° | 1402.8 | 1433.8 | 1428.7 | 1422.5 | 1395.4 | 1381.3 | 1392.0 | 1405.0 | 1417.4 | 1369.4 | 1254.2 |
| 45° | 1566.0 | 1594.2 | 1569.9 | 1578.4 | 1554.1 | 1547.9 | 1568.8 | 1576.1 | 1562.0 | 1473.9 | 1303.9 |
| 47.5° | 1735.4 | 1765.9 | 1754.0 | 1745.5 | 1728.0 | 1726.3 | 1738.2 | 1749.5 | 1693.6 | 1549.6 | 1341.2 |
| 50° | 1865.3 | 1910.4 | 1904.2 | 1899.1 | 1879.9 | 1877.7 | 1905.9 | 1913.8 | 1813.3 | 1629.8 | 1378.5 |
| 52.5° | 1965.2 | 2023.9 | 2035.2 | 2028.5 | 2023.9 | 2025.1 | 2106.4 | 2094.5 | 1955.6 | 1726.9 | 1422.0 |
| 55° | 2083.2 | 2144.2 | 2185.5 | 2193.9 | 2205.2 | 2221.6 | 2382.5 | 2365.0 | 2152.1 | 1867.0 | 1467.7 |
| 57.5° | 2239.7 | 2352.6 | 2414.7 | 2453.1 | 2484.2 | 2590.4 | 2794.8 | 2727.6 | 2424.3 | 2047.7 | 1521.9 |
| 60° | 2470.1 | 2694.3 | 2823.0 | 2920.7 | 2982.3 | 3167.5 | 3415.4 | 3168.1 | 2740.6 | 2264.5 | 1593.1 |
| 62.5° | 2840.0 | 3205.9 | 3452.1 | 3507.5 | 3533.4 | 3709.6 | 3886.9 | 3505.2 | 2968.7 | 2408.0 | 1604.4 |
| 65° | 3198.6 | 3656.0 | 3943.4 | 3975.6 | 3956.4 | 4003.8 | 4053.5 | 3515.4 | 2915.6 | 2340.2 | 1472.2 |
| 67° | 3325.1 | 3762.1 | 4064.3 | 4103.2 | 4046.8 | 4031.5 | 3955.8 | 3330.1 | 2717.4 | 2132.4 | 1288.1 |
| 67.5° | 3318.3 | 3749.7 | 4063.1 | 4102.7 | 4046.8 | 4022.5 | 3911.2 | 3255.6 | 2639.5 | 2081.5 | 1252.5 |
| 70° | 3058.5 | 3473.0 | 3822.0 | 3896.0 | 3864.9 | 3800.5 | 3504.6 | 2757.5 | 2187.1 | 1707.7 | 965.7 |
| 72.5° | 2483.1 | 2930.9 | 3207.6 | 3289.5 | 3311.5 | 3146.0 | 2610.1 | 1930.2 | 1576.7 | 1220.4 | 700.2 |
| 75° | 1667.0 | 2112.0 | 2338.5 | 2297.3 | 2163.4 | 1881.6 | 1377.9 | 1018.2 | 864.0 | 709.8 | 433.1 |
| 77.5° | 945.3 | 1288.7 | 1271.2 | 1200.0 | 1087.1 | 804.7 | 390.8 | 211.8 | 202.2 | 236.1 | 183.5 |
| 80° | 631.4 | 794.6 | 848.8 | 876.4 | 870.2 | 595.2 | 161.5 | 81.9 | 70.6 | 70.6 | 69.5 |
| 82.5° | 526.9 | 686.7 | 777.6 | 801.9 | 747.1 | 452.3 | 96.6 | 53.6 | 42.9 | 48.0 | 53.6 |
| 85° | 221.9 | 346.2 | 458.0 | 440.5 | 350.1 | 176.2 | 49.1 | 28.2 | 28.2 | 37.3 | 46.9 |
| 87.5° | 53.6 | 79.6 | 112.4 | 109.0 | 87.5 | 40.7 | 24.8 | 17.5 | 17.5 | 28.8 | 40.7 |
| 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-F02-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |
| 2.5° | 516.7 | 514.5 | 514.5 | 512.2 | 511.1 | 509.9 | 509.4 | 509.9 | 508.2 | 506.6 | 507.1 |
| 5° | 519.5 | 516.2 | 514.5 | 510.5 | 508.2 | 506.0 | 504.3 | 503.7 | 500.9 | 499.2 | 499.2 |
| 7.5° | 529.1 | 524.6 | 521.2 | 516.7 | 512.2 | 508.8 | 506.0 | 504.3 | 500.3 | 497.5 | 497.0 |
| 10° | 548.9 | 542.7 | 537.6 | 530.8 | 524.6 | 520.1 | 515.0 | 512.2 | 507.7 | 504.9 | 503.7 |
| 12.5° | 578.3 | 569.2 | 561.3 | 551.2 | 543.8 | 537.0 | 534.2 | 529.7 | 528.0 | 526.3 | 526.9 |
| 15° | 605.9 | 595.2 | 587.9 | 580.0 | 571.5 | 567.5 | 561.9 | 561.3 | 561.9 | 559.1 | 559.1 |
| 17.5° | 634.2 | 625.7 | 617.2 | 614.4 | 606.5 | 603.7 | 599.7 | 597.5 | 592.4 | 587.3 | 581.1 |
| 20° | 663.5 | 659.0 | 655.6 | 652.2 | 650.6 | 643.8 | 633.6 | 621.8 | 605.4 | 590.7 | 578.3 |
| 22.5° | 701.4 | 698.6 | 699.1 | 696.3 | 687.3 | 670.3 | 647.2 | 622.3 | 595.8 | 572.1 | 553.4 |
| 25° | 749.4 | 752.2 | 748.8 | 734.7 | 708.7 | 674.3 | 638.7 | 603.7 | 568.7 | 540.4 | 515.0 |
| 27.5° | 810.4 | 808.1 | 792.3 | 756.2 | 711.5 | 662.4 | 616.7 | 574.9 | 533.1 | 500.3 | 468.7 |
| 30° | 877.0 | 860.6 | 819.4 | 762.9 | 700.2 | 641.0 | 584.5 | 535.9 | 487.4 | 449.0 | 413.4 |
| 32.5° | 944.2 | 897.3 | 830.7 | 755.0 | 680.5 | 610.5 | 547.2 | 490.2 | 434.3 | 391.3 | 350.1 |
| 35° | 995.0 | 919.9 | 829.0 | 738.1 | 650.6 | 570.4 | 497.0 | 426.4 | 361.4 | 310.0 | 268.2 |
| 37.5° | 1041.9 | 932.3 | 817.7 | 712.1 | 609.3 | 517.3 | 425.8 | 349.6 | 284.1 | 232.7 | 196.5 |
| 40° | 1070.7 | 931.2 | 795.7 | 669.2 | 552.3 | 439.3 | 340.0 | 261.5 | 203.9 | 166.0 | 146.3 |
| 42.5° | 1087.6 | 919.4 | 757.9 | 612.2 | 473.8 | 351.8 | 250.7 | 180.1 | 145.1 | 128.8 | 119.7 |
| 45° | 1096.1 | 893.9 | 711.0 | 535.9 | 378.9 | 251.3 | 172.8 | 129.9 | 115.8 | 111.2 | 109.0 |
| 47.5° | 1091.0 | 858.4 | 643.8 | 450.1 | 282.4 | 172.2 | 123.7 | 109.6 | 105.0 | 102.8 | 102.2 |
| 50° | 1079.2 | 812.1 | 573.2 | 356.9 | 200.5 | 123.7 | 103.9 | 100.0 | 98.3 | 97.7 | 96.6 |
| 52.5° | 1062.2 | 757.3 | 492.4 | 276.7 | 142.3 | 102.8 | 97.1 | 95.4 | 94.3 | 92.6 | 92.0 |
| 55° | 1034.0 | 689.5 | 410.0 | 203.9 | 114.1 | 97.1 | 94.3 | 93.7 | 91.5 | 89.8 | 88.7 |
| 57.5° | 1000.1 | 617.2 | 332.1 | 159.8 | 105.0 | 94.9 | 93.2 | 92.6 | 90.4 | 88.1 | 85.8 |
| 60° | 983.2 | 566.4 | 273.3 | 138.4 | 103.3 | 96.0 | 94.9 | 93.7 | 90.9 | 87.5 | 84.7 |
| 62.5° | 941.4 | 511.6 | 235.5 | 131.6 | 105.6 | 100.0 | 99.4 | 97.1 | 93.2 | 89.8 | 85.3 |
| 65° | 833.5 | 434.3 | 200.5 | 124.8 | 109.0 | 106.2 | 107.3 | 104.5 | 100.0 | 94.3 | 87.0 |
| 67° | 704.2 | 352.9 | 169.4 | 119.7 | 112.9 | 114.6 | 116.3 | 114.6 | 107.3 | 98.8 | 89.2 |
| 67.5° | 669.2 | 328.7 | 160.9 | 118.0 | 114.1 | 116.3 | 119.2 | 117.5 | 109.6 | 100.0 | 90.4 |
| 70° | 503.2 | 235.5 | 127.6 | 111.8 | 118.0 | 124.2 | 129.9 | 129.3 | 121.4 | 109.6 | 94.3 |
| 72.5° | 347.9 | 160.9 | 103.3 | 104.5 | 114.6 | 125.9 | 133.3 | 136.7 | 128.8 | 114.6 | 96.6 |
| 75° | 209.5 | 102.8 | 87.0 | 94.3 | 104.5 | 115.8 | 127.6 | 128.8 | 119.7 | 105.6 | 90.4 |
| 77.5° | 102.8 | 74.0 | 71.7 | 74.5 | 84.1 | 93.7 | 98.8 | 92.6 | 87.0 | 77.4 | 71.7 |
| 80° | 62.1 | 58.2 | 57.0 | 63.2 | 68.9 | 67.2 | 63.2 | 58.2 | 55.3 | 53.1 | 50.8 |
| 82.5° | 52.0 | 52.5 | 53.6 | 54.8 | 53.6 | 47.4 | 40.7 | 37.3 | 35.0 | 35.0 | 35.6 |
| 85° | 53.1 | 54.2 | 49.7 | 45.7 | 40.7 | 33.9 | 27.7 | 23.7 | 24.3 | 24.8 | 24.8 |
| 87.5° | 41.2 | 39.5 | 35.0 | 28.8 | 23.2 | 16.9 | 13.6 | 11.3 | 12.4 | 11.9 | 13.0 |
| 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: P141077

CATALOG NUMBER: ECM-F02-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 520.1 | 520.1 | 520.1 | 520.1 | 520.1 |
| 2.5° | 507.1 | 506.6 | 507.1 | 507.1 | 507.7 |
| 5° | 498.1 | 497.0 | 497.0 | 497.5 | 497.5 |
| 7.5° | 495.8 | 494.7 | 494.7 | 495.3 | 494.7 |
| 10° | 503.7 | 503.2 | 504.3 | 503.7 | 503.7 |
| 12.5° | 527.4 | 527.4 | 529.7 | 530.8 | 529.7 |
| 15° | 559.6 | 558.5 | 560.2 | 560.8 | 561.3 |
| 17.5° | 577.7 | 572.6 | 570.9 | 572.1 | 569.8 |
| 20° | 567.5 | 559.1 | 555.7 | 555.1 | 551.2 |
| 22.5° | 538.7 | 526.3 | 521.2 | 519.0 | 514.5 |
| 25° | 498.1 | 483.4 | 476.6 | 471.0 | 468.2 |
| 27.5° | 449.5 | 431.4 | 421.8 | 417.3 | 415.6 |
| 30° | 388.5 | 371.0 | 356.9 | 349.6 | 347.3 |
| 32.5° | 320.8 | 295.3 | 280.7 | 271.6 | 265.4 |
| 35° | 239.4 | 215.2 | 204.4 | 197.7 | 189.7 |
| 37.5° | 173.9 | 159.3 | 150.2 | 145.7 | 144.0 |
| 40° | 134.4 | 127.1 | 122.5 | 122.0 | 121.4 |
| 42.5° | 116.3 | 112.9 | 112.4 | 111.2 | 110.1 |
| 45° | 107.3 | 106.2 | 106.7 | 105.0 | 103.9 |
| 47.5° | 101.1 | 100.5 | 100.5 | 99.4 | 98.8 |
| 50° | 96.0 | 96.0 | 95.4 | 94.9 | 94.9 |
| 52.5° | 91.5 | 92.0 | 92.0 | 90.9 | 90.9 |
| 55° | 87.5 | 87.5 | 88.1 | 87.5 | 87.5 |
| 57.5° | 84.7 | 84.1 | 84.7 | 84.7 | 84.7 |
| 60° | 83.0 | 81.9 | 81.3 | 81.9 | 81.9 |
| 62.5° | 81.3 | 79.6 | 79.1 | 79.1 | 79.6 |
| 65° | 81.3 | 78.5 | 77.4 | 77.4 | 76.8 |
| 67° | 81.9 | 77.4 | 75.1 | 74.0 | 73.4 |
| 67.5° | 81.9 | 76.8 | 74.0 | 73.4 | 72.8 |
| 70° | 81.9 | 74.5 | 70.6 | 67.8 | 67.8 |
| 72.5° | 81.3 | 72.3 | 66.1 | 63.2 | 62.1 |
| 75° | 77.4 | 68.3 | 62.7 | 59.3 | 58.2 |
| 77.5° | 64.9 | 59.3 | 56.5 | 53.6 | 53.1 |
| 80° | 49.1 | 46.3 | 44.0 | 37.8 | 35.0 |
| 82.5° | 35.0 | 33.3 | 29.4 | 27.1 | 25.4 |
| 85° | 24.8 | 23.2 | 21.5 | 19.2 | 19.2 |
| 87.5° | 13.6 | 13.0 | 12.4 | 11.3 | 10.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)