

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: P162663

Luminaire Tested: **EMM-F04-LED-E1-SL4-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P162663
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-F04-LED-E1-SL4-HSS-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6555.1 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

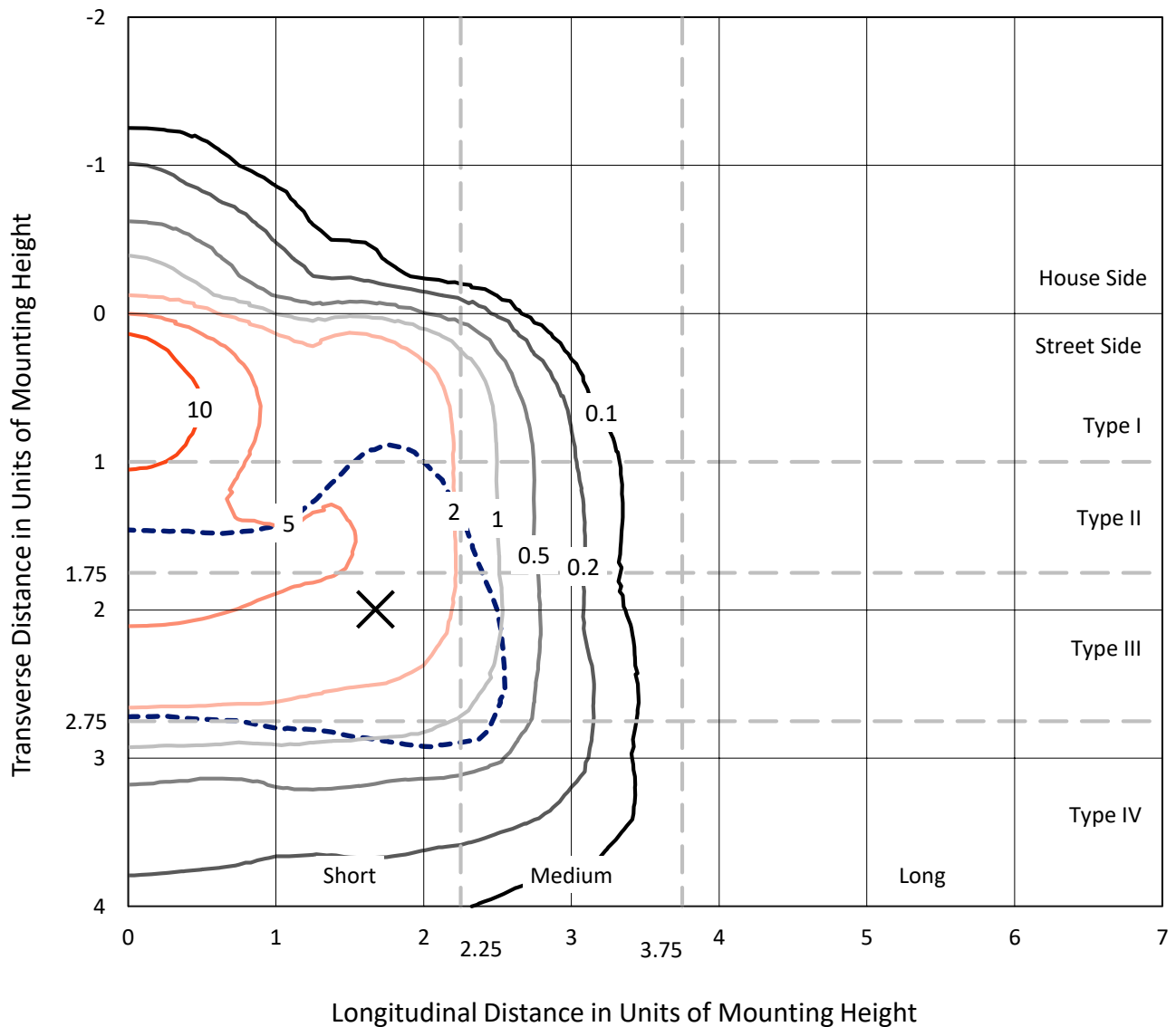
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P162663
 CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

Iso-Footcandle Lines of Horizontal Illumination

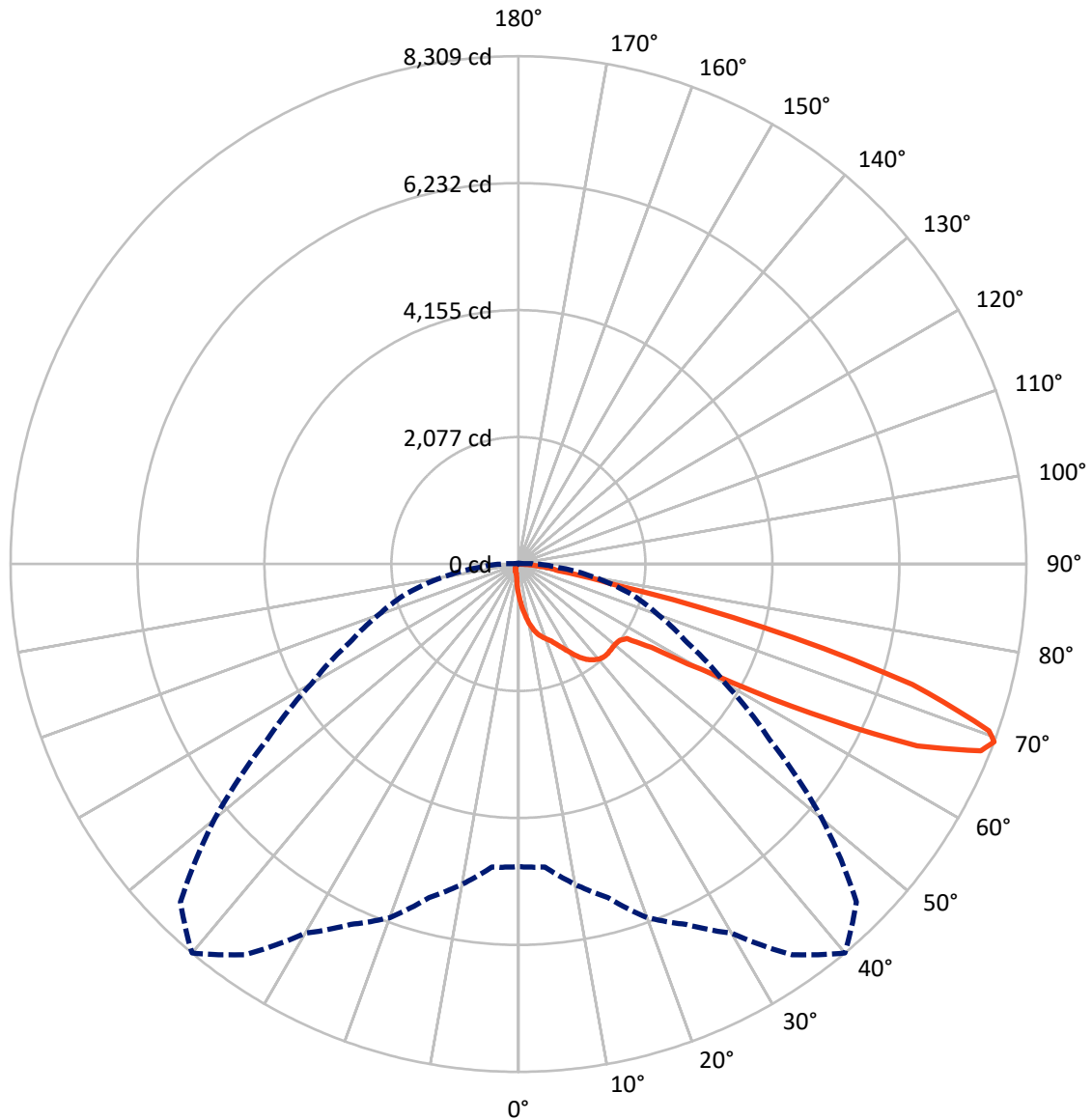
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P162663
CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P162663

CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

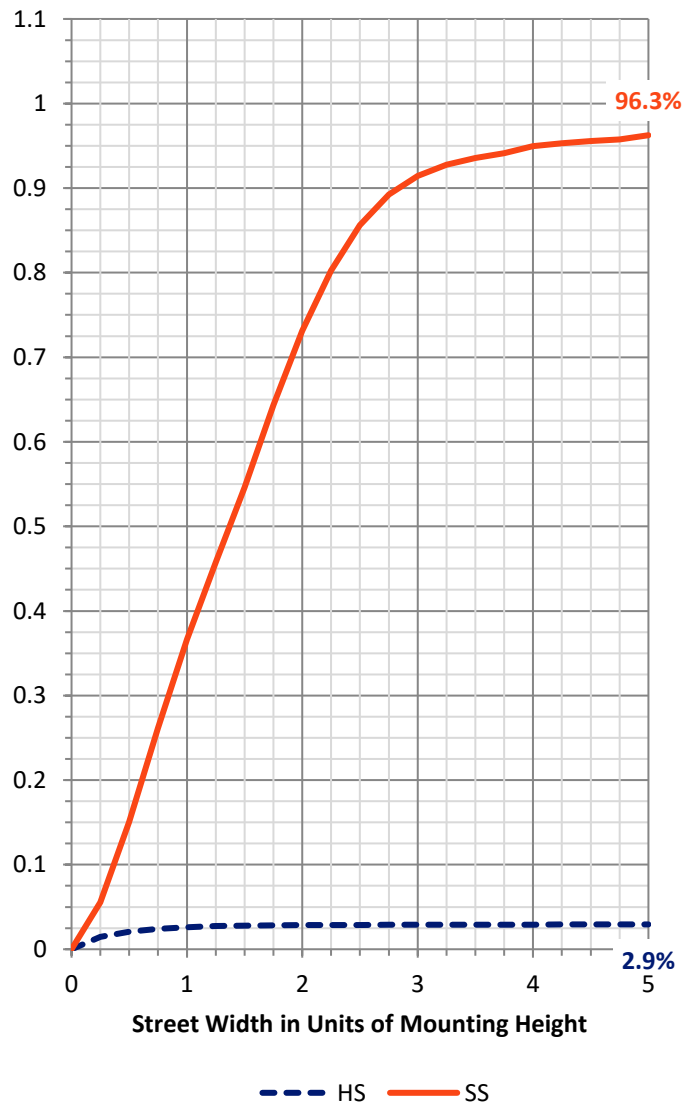
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 195.2 | 0.0 | 195.2 |
| | % Fixture | 3.0 | 0.0 | 3.0 |
| Street Side | Lumens | 6359.9 | 0.0 | 6359.9 |
| | % Fixture | 97.0 | 0.0 | 97.0 |
| Total | Lumens | 6555.1 | 0.0 | 6555.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.9 | 0.8 |
| 10°-20° | 175.4 | 2.7 |
| 20°-30° | 335.8 | 5.1 |
| 30°-40° | 558.4 | 8.5 |
| 40°-50° | 755.6 | 11.5 |
| 50°-60° | 1181.6 | 18.0 |
| 60°-70° | 2429.4 | 37.1 |
| 70°-80° | 977.6 | 14.9 |
| 80°-90° | 90.4 | 1.4 |
| 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° | 6555.1 | 100.0 |
| 0°-180° | 6555.1 | 100.0 |



REPORT NUMBER: P162663

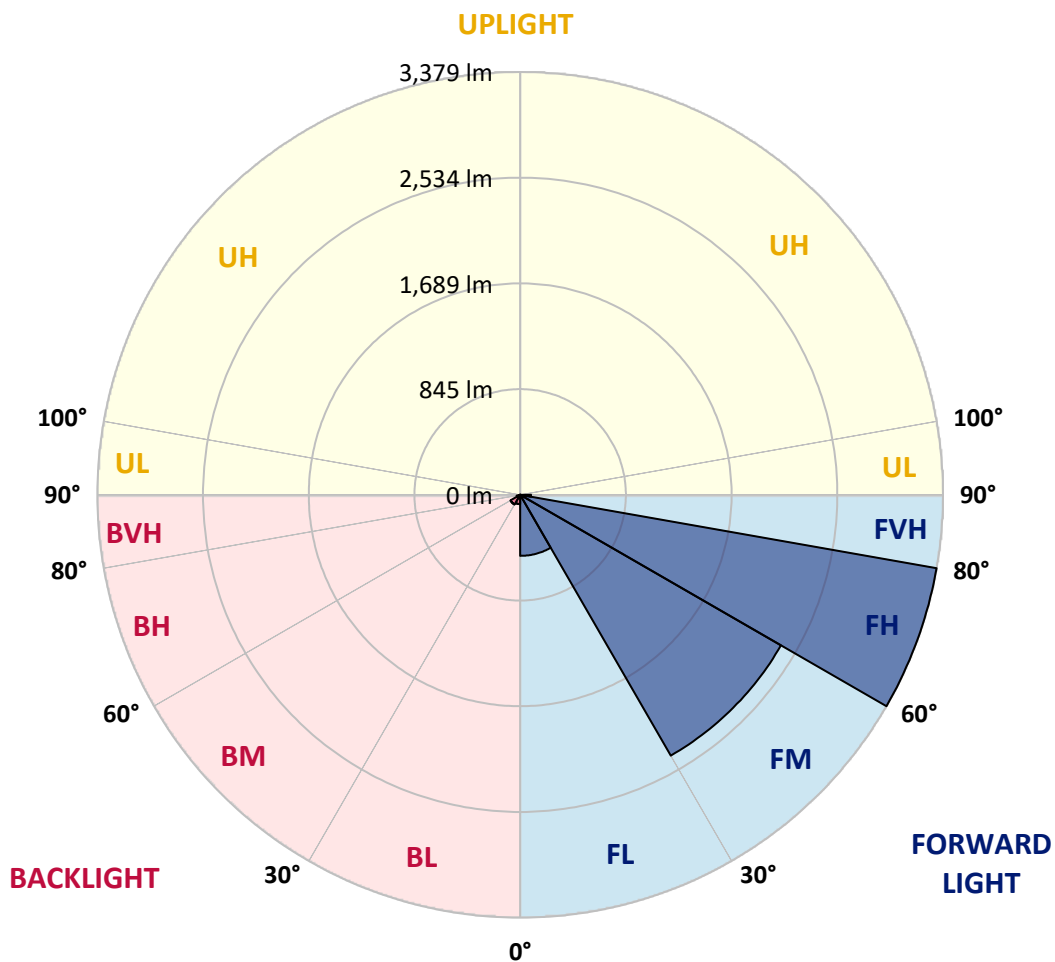
CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 487.8 | 7.4 | | | |
| FM (30°-60°) | 2406.5 | 36.7 | | | |
| FH (60°-80°) | 3378.5 | 51.5 | | | G2/5000 |
| FVH (80°-90°) | 87.1 | 1.3 | | | G1/100 |
| BL (0°-30°) | 74.2 | 1.1 | B0/110 | | |
| BM (30°-60°) | 89.1 | 1.4 | B0/220 | | |
| BH (60°-80°) | 28.5 | 0.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2

Type IV Short





REPORT NUMBER: P162663
 CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 |
| 2.5° | 660.4 | 652.9 | 644.3 | 644.3 | 633.5 | 633.5 | 627.1 | 609.9 | 607.7 | 598.1 | 588.4 |
| 5° | 842.9 | 836.5 | 825.7 | 816.1 | 807.5 | 792.5 | 781.8 | 761.4 | 738.8 | 717.3 | 698.0 |
| 7.5° | 1021.2 | 1018.0 | 998.6 | 995.5 | 981.5 | 956.7 | 935.3 | 905.2 | 866.6 | 836.5 | 801.1 |
| 10° | 1186.6 | 1179.0 | 1174.7 | 1156.5 | 1136.1 | 1109.2 | 1076.0 | 1039.4 | 994.4 | 947.1 | 896.7 |
| 12.5° | 1317.6 | 1313.3 | 1294.0 | 1286.4 | 1265.0 | 1238.1 | 1196.2 | 1149.0 | 1103.9 | 1042.7 | 983.6 |
| 15° | 1415.3 | 1407.7 | 1394.9 | 1383.1 | 1357.4 | 1333.6 | 1295.0 | 1243.5 | 1188.7 | 1122.1 | 1051.3 |
| 17.5° | 1497.0 | 1482.9 | 1479.7 | 1461.5 | 1434.6 | 1406.7 | 1363.8 | 1316.5 | 1252.1 | 1185.5 | 1108.2 |
| 20° | 1606.4 | 1587.1 | 1580.6 | 1553.8 | 1522.7 | 1484.1 | 1434.6 | 1375.5 | 1307.9 | 1234.9 | 1155.4 |
| 22.5° | 1735.3 | 1721.4 | 1707.4 | 1683.8 | 1644.0 | 1589.2 | 1517.3 | 1452.9 | 1367.0 | 1286.4 | 1200.5 |
| 25° | 1917.9 | 1906.0 | 1883.4 | 1851.3 | 1801.9 | 1736.4 | 1649.4 | 1554.9 | 1453.9 | 1350.9 | 1249.9 |
| 27.5° | 2095.0 | 2084.3 | 2068.2 | 2043.5 | 1987.7 | 1915.7 | 1808.3 | 1688.1 | 1560.3 | 1435.7 | 1324.0 |
| 30° | 2261.5 | 2251.8 | 2235.7 | 2211.0 | 2161.6 | 2090.7 | 1969.4 | 1840.5 | 1681.6 | 1536.6 | 1402.4 |
| 32.5° | 2440.8 | 2437.5 | 2419.4 | 2383.9 | 2341.0 | 2245.3 | 2113.3 | 1974.7 | 1813.6 | 1646.2 | 1489.4 |
| 35° | 2643.8 | 2619.0 | 2601.9 | 2566.4 | 2493.5 | 2391.4 | 2236.7 | 2085.4 | 1915.7 | 1743.8 | 1568.9 |
| 37.5° | 2815.6 | 2792.0 | 2770.5 | 2725.3 | 2636.2 | 2506.3 | 2331.3 | 2164.8 | 1989.8 | 1814.8 | 1636.6 |
| 40° | 2941.2 | 2929.4 | 2903.7 | 2844.6 | 2744.6 | 2590.0 | 2401.1 | 2219.6 | 2043.5 | 1867.4 | 1691.2 |
| 42.5° | 3034.6 | 3016.4 | 2987.4 | 2926.1 | 2808.0 | 2631.9 | 2429.0 | 2242.2 | 2068.2 | 1899.6 | 1726.7 |
| 45° | 3069.0 | 3054.0 | 3027.1 | 2960.5 | 2832.7 | 2643.8 | 2427.9 | 2235.7 | 2069.2 | 1909.3 | 1750.3 |
| 47.5° | 3048.6 | 3033.5 | 3009.9 | 2947.6 | 2822.0 | 2629.8 | 2408.6 | 2217.4 | 2058.5 | 1912.5 | 1771.9 |
| 50° | 2980.9 | 2972.3 | 2954.0 | 2901.5 | 2788.7 | 2602.9 | 2391.4 | 2207.8 | 2056.4 | 1928.6 | 1801.9 |
| 52.5° | 2974.5 | 2969.2 | 2946.6 | 2893.9 | 2779.1 | 2594.3 | 2389.2 | 2213.1 | 2074.7 | 1949.0 | 1823.4 |
| 55° | 3634.9 | 3558.6 | 3387.9 | 3242.9 | 3004.5 | 2721.0 | 2497.7 | 2300.1 | 2151.9 | 2029.5 | 1941.5 |
| 57.5° | 5166.1 | 5052.3 | 4827.9 | 4552.0 | 4004.3 | 3466.3 | 3035.7 | 2724.3 | 2570.7 | 2514.9 | 2548.2 |
| 60° | 5883.4 | 5863.0 | 5827.7 | 5696.6 | 5416.3 | 4953.6 | 4438.1 | 3880.7 | 3657.4 | 3638.1 | 3705.8 |
| 62.5° | 6223.9 | 6211.0 | 6221.7 | 6205.6 | 6118.6 | 5983.3 | 5835.1 | 5594.7 | 5373.4 | 5230.6 | 4927.7 |
| 65° | 6380.6 | 6389.2 | 6450.4 | 6498.8 | 6509.5 | 6545.0 | 6653.4 | 6953.0 | 7172.0 | 6803.7 | 5963.0 |
| 67.5° | 5982.3 | 6032.8 | 6173.4 | 6349.5 | 6555.7 | 6755.4 | 7077.6 | 7709.0 | 8158.9 | 7726.1 | 6532.1 |
| 69° | 4952.5 | 4977.2 | 5320.8 | 5652.6 | 6156.2 | 6508.5 | 6975.5 | 7803.5 | 8309.2 | 7820.7 | 6486.9 |
| 70° | 3899.0 | 3921.6 | 4289.9 | 4740.9 | 5592.5 | 6045.6 | 6656.7 | 7643.4 | 8168.5 | 7694.9 | 6255.0 |
| 72.5° | 1758.9 | 1726.7 | 1856.7 | 2098.3 | 3023.8 | 3743.3 | 4811.8 | 6192.7 | 6739.3 | 6164.8 | 4679.7 |
| 75° | 1228.5 | 1214.5 | 1228.5 | 1229.5 | 1373.4 | 1771.9 | 2235.7 | 3356.8 | 4151.3 | 3582.2 | 2235.7 |
| 77.5° | 951.4 | 941.7 | 932.1 | 921.4 | 938.6 | 1051.3 | 1096.3 | 1190.9 | 1546.3 | 1462.5 | 852.6 |
| 80° | 752.8 | 744.2 | 767.8 | 760.2 | 760.2 | 773.1 | 764.5 | 729.2 | 662.5 | 614.2 | 549.8 |
| 82.5° | 350.0 | 352.2 | 352.2 | 382.3 | 460.7 | 537.9 | 562.7 | 527.2 | 468.2 | 398.4 | 321.1 |
| 85° | 33.3 | 37.6 | 63.4 | 97.7 | 194.4 | 219.1 | 220.1 | 182.5 | 182.5 | 143.9 | 116.0 |
| 87.5° | 0.0 | 1.1 | 1.1 | 1.1 | 9.7 | 26.9 | 22.6 | 6.4 | 3.3 | 3.3 | 5.4 |
| 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: P162663
 CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 |
| 2.5° | 571.3 | 568.1 | 555.1 | 542.2 | 530.5 | 517.6 | 505.8 | 493.9 | 481.0 | 471.4 | 459.6 |
| 5° | 667.9 | 644.3 | 617.5 | 591.7 | 566.0 | 539.1 | 511.2 | 486.4 | 460.7 | 437.1 | 414.5 |
| 7.5° | 765.6 | 719.4 | 683.0 | 636.8 | 594.9 | 553.0 | 514.3 | 474.6 | 438.1 | 403.8 | 371.6 |
| 10° | 848.3 | 792.5 | 735.6 | 676.5 | 616.3 | 560.5 | 506.9 | 459.6 | 411.2 | 369.4 | 329.7 |
| 12.5° | 916.0 | 845.0 | 775.2 | 701.2 | 633.5 | 562.7 | 496.2 | 439.2 | 382.3 | 335.0 | 294.2 |
| 15° | 977.2 | 895.5 | 811.8 | 725.9 | 640.1 | 559.4 | 485.3 | 414.5 | 356.6 | 302.8 | 256.6 |
| 17.5° | 1026.5 | 933.1 | 838.6 | 742.0 | 649.7 | 555.1 | 471.4 | 397.3 | 329.7 | 273.8 | 228.7 |
| 20° | 1069.6 | 971.8 | 869.8 | 761.4 | 656.1 | 554.1 | 459.6 | 375.9 | 306.1 | 247.0 | 203.0 |
| 22.5° | 1109.2 | 1011.5 | 902.0 | 786.1 | 665.8 | 553.0 | 448.8 | 359.7 | 285.6 | 226.6 | 182.5 |
| 25° | 1154.4 | 1051.3 | 936.4 | 811.8 | 683.0 | 557.3 | 442.4 | 346.8 | 267.3 | 207.3 | 166.5 |
| 27.5° | 1204.9 | 1096.3 | 977.2 | 844.0 | 705.4 | 566.0 | 440.3 | 332.8 | 251.3 | 189.0 | 153.6 |
| 30° | 1275.7 | 1150.1 | 1018.0 | 876.2 | 725.9 | 575.6 | 438.1 | 324.3 | 235.1 | 175.1 | 140.6 |
| 32.5° | 1337.9 | 1202.7 | 1063.1 | 909.5 | 748.5 | 585.3 | 437.1 | 312.5 | 220.1 | 161.1 | 131.0 |
| 35° | 1403.4 | 1251.0 | 1101.8 | 941.7 | 767.8 | 596.0 | 436.0 | 303.9 | 206.1 | 147.2 | 121.3 |
| 37.5° | 1460.4 | 1291.8 | 1131.8 | 969.6 | 789.2 | 605.6 | 437.1 | 296.4 | 193.2 | 135.3 | 112.7 |
| 40° | 1508.7 | 1333.6 | 1165.1 | 995.5 | 811.8 | 620.6 | 438.1 | 288.9 | 180.4 | 124.6 | 105.3 |
| 42.5° | 1551.6 | 1373.4 | 1200.5 | 1024.4 | 837.6 | 637.9 | 444.5 | 282.4 | 169.6 | 114.9 | 97.7 |
| 45° | 1584.9 | 1409.9 | 1239.2 | 1065.3 | 879.5 | 665.8 | 456.4 | 278.1 | 158.9 | 106.3 | 91.3 |
| 47.5° | 1619.3 | 1463.6 | 1304.7 | 1129.7 | 940.7 | 709.8 | 476.7 | 277.1 | 150.3 | 99.8 | 85.9 |
| 50° | 1666.6 | 1517.3 | 1362.7 | 1195.2 | 996.5 | 754.9 | 501.5 | 278.1 | 139.6 | 93.4 | 80.5 |
| 52.5° | 1700.9 | 1572.1 | 1437.9 | 1309.0 | 1129.7 | 892.4 | 597.0 | 297.5 | 134.2 | 88.1 | 74.1 |
| 55° | 1903.9 | 1881.3 | 1884.6 | 1906.0 | 1767.6 | 1518.4 | 998.6 | 429.5 | 157.9 | 99.8 | 73.1 |
| 57.5° | 2684.6 | 2764.1 | 2810.1 | 2809.1 | 2580.4 | 2140.2 | 1341.2 | 552.0 | 176.1 | 116.0 | 87.0 |
| 60° | 3711.1 | 3651.0 | 3566.2 | 3356.8 | 3052.9 | 2443.0 | 1500.1 | 593.9 | 152.5 | 92.4 | 79.5 |
| 62.5° | 4618.5 | 4266.3 | 3953.8 | 3614.5 | 3216.1 | 2548.2 | 1532.3 | 590.6 | 133.2 | 69.8 | 55.8 |
| 65° | 5184.4 | 4550.8 | 4046.2 | 3621.0 | 3151.7 | 2460.1 | 1449.6 | 542.2 | 112.7 | 56.9 | 46.2 |
| 67.5° | 5319.7 | 4397.3 | 3683.2 | 3141.0 | 2633.0 | 1914.6 | 1064.2 | 408.1 | 88.1 | 47.2 | 40.8 |
| 69° | 5024.4 | 3908.7 | 3051.8 | 2436.5 | 1915.7 | 1270.3 | 658.2 | 257.7 | 67.7 | 42.9 | 37.6 |
| 70° | 4621.8 | 3399.7 | 2485.9 | 1955.4 | 1418.6 | 892.4 | 460.7 | 181.5 | 54.8 | 39.8 | 34.3 |
| 72.5° | 2973.5 | 1785.7 | 1222.0 | 850.5 | 585.3 | 355.4 | 180.4 | 81.7 | 41.9 | 33.3 | 27.9 |
| 75° | 1153.3 | 660.4 | 478.9 | 364.0 | 284.6 | 197.5 | 109.6 | 52.6 | 35.5 | 27.9 | 21.5 |
| 77.5° | 568.1 | 434.9 | 355.4 | 243.7 | 141.7 | 88.1 | 59.1 | 40.8 | 29.0 | 20.4 | 14.0 |
| 80° | 448.8 | 298.5 | 178.2 | 110.6 | 83.8 | 63.4 | 45.1 | 33.3 | 21.5 | 12.9 | 9.7 |
| 82.5° | 229.8 | 125.6 | 92.4 | 75.2 | 62.2 | 49.4 | 36.5 | 23.6 | 14.0 | 8.6 | 7.6 |
| 85° | 71.9 | 52.6 | 47.2 | 46.2 | 42.9 | 35.5 | 25.8 | 15.0 | 8.6 | 5.4 | 5.4 |
| 87.5° | 5.4 | 7.6 | 9.7 | 7.6 | 8.6 | 7.6 | 9.7 | 6.4 | 4.3 | 4.3 | 3.3 |
| 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: P162663

CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 | 495.0 |
| 2.5° | 451.0 | 438.1 | 426.4 | 418.8 | 404.8 | 399.5 | 394.1 | 391.9 | 382.3 | 384.5 | 375.9 |
| 5° | 394.1 | 371.6 | 354.4 | 337.1 | 321.1 | 309.2 | 299.6 | 287.8 | 278.1 | 273.8 | 265.2 |
| 7.5° | 342.6 | 313.5 | 291.1 | 272.8 | 253.4 | 238.4 | 225.5 | 217.0 | 208.3 | 199.7 | 195.4 |
| 10° | 297.5 | 266.3 | 240.6 | 222.3 | 204.0 | 191.1 | 181.5 | 175.1 | 169.6 | 166.5 | 165.3 |
| 12.5° | 255.6 | 225.5 | 201.8 | 185.8 | 171.8 | 165.3 | 161.1 | 157.9 | 156.8 | 155.7 | 155.7 |
| 15° | 223.4 | 193.2 | 175.1 | 163.2 | 156.8 | 153.6 | 152.5 | 150.3 | 148.2 | 147.2 | 147.2 |
| 17.5° | 193.2 | 170.8 | 157.9 | 151.5 | 148.2 | 146.0 | 143.9 | 141.7 | 139.6 | 138.5 | 138.5 |
| 20° | 172.9 | 154.6 | 148.2 | 143.9 | 140.6 | 138.5 | 135.3 | 133.2 | 132.0 | 131.0 | 129.9 |
| 22.5° | 156.8 | 145.0 | 140.6 | 137.5 | 133.2 | 129.9 | 127.7 | 125.6 | 123.4 | 122.4 | 121.3 |
| 25° | 145.0 | 137.5 | 134.2 | 129.9 | 125.6 | 122.4 | 119.2 | 116.0 | 113.8 | 112.7 | 110.6 |
| 27.5° | 136.3 | 131.0 | 126.7 | 121.3 | 117.0 | 113.8 | 110.6 | 107.4 | 105.3 | 103.1 | 102.0 |
| 30° | 128.9 | 123.4 | 118.1 | 113.8 | 108.4 | 105.3 | 101.0 | 97.7 | 96.7 | 94.5 | 92.4 |
| 32.5° | 121.3 | 116.0 | 110.6 | 105.3 | 99.8 | 95.6 | 93.4 | 89.1 | 87.0 | 85.9 | 83.8 |
| 35° | 112.7 | 107.4 | 101.0 | 96.7 | 91.3 | 87.0 | 83.8 | 80.5 | 78.4 | 76.2 | 75.2 |
| 37.5° | 105.3 | 98.8 | 92.4 | 87.0 | 82.7 | 78.4 | 75.2 | 71.9 | 69.8 | 67.7 | 66.5 |
| 40° | 96.7 | 90.2 | 83.8 | 78.4 | 74.1 | 70.9 | 67.7 | 64.4 | 62.2 | 61.2 | 61.2 |
| 42.5° | 89.1 | 81.7 | 75.2 | 70.9 | 67.7 | 63.4 | 60.1 | 56.9 | 55.8 | 54.8 | 55.8 |
| 45° | 81.7 | 74.1 | 68.7 | 64.4 | 61.2 | 56.9 | 53.6 | 51.5 | 50.5 | 51.5 | 52.6 |
| 47.5° | 75.2 | 67.7 | 62.2 | 59.1 | 55.8 | 52.6 | 49.4 | 47.2 | 47.2 | 49.4 | 51.5 |
| 50° | 68.7 | 61.2 | 56.9 | 54.8 | 51.5 | 48.3 | 44.0 | 42.9 | 44.0 | 46.2 | 48.3 |
| 52.5° | 62.2 | 53.6 | 50.5 | 49.4 | 46.2 | 42.9 | 39.8 | 38.6 | 39.8 | 41.9 | 40.8 |
| 55° | 55.8 | 47.2 | 46.2 | 45.1 | 41.9 | 37.6 | 34.3 | 34.3 | 34.3 | 33.3 | 31.2 |
| 57.5° | 53.6 | 41.9 | 40.8 | 39.8 | 36.5 | 32.2 | 30.0 | 27.9 | 26.9 | 23.6 | 22.6 |
| 60° | 55.8 | 37.6 | 37.6 | 35.5 | 32.2 | 27.9 | 24.7 | 21.5 | 19.3 | 17.2 | 17.2 |
| 62.5° | 45.1 | 34.3 | 33.3 | 31.2 | 26.9 | 22.6 | 19.3 | 16.2 | 15.0 | 14.0 | 14.0 |
| 65° | 36.5 | 31.2 | 29.0 | 25.8 | 22.6 | 18.3 | 15.0 | 12.9 | 11.9 | 11.9 | 12.9 |
| 67.5° | 33.3 | 27.9 | 24.7 | 21.5 | 18.3 | 14.0 | 11.9 | 10.7 | 10.7 | 11.9 | 11.9 |
| 69° | 31.2 | 25.8 | 22.6 | 19.3 | 16.2 | 12.9 | 10.7 | 10.7 | 10.7 | 10.7 | 11.9 |
| 70° | 29.0 | 24.7 | 21.5 | 18.3 | 14.0 | 10.7 | 9.7 | 9.7 | 10.7 | 10.7 | 11.9 |
| 72.5° | 22.6 | 19.3 | 18.3 | 15.0 | 10.7 | 9.7 | 8.6 | 9.7 | 9.7 | 10.7 | 10.7 |
| 75° | 17.2 | 14.0 | 14.0 | 11.9 | 8.6 | 7.6 | 7.6 | 8.6 | 8.6 | 9.7 | 9.7 |
| 77.5° | 11.9 | 9.7 | 9.7 | 8.6 | 7.6 | 6.4 | 6.4 | 7.6 | 8.6 | 8.6 | 9.7 |
| 80° | 8.6 | 7.6 | 6.4 | 7.6 | 6.4 | 5.4 | 6.4 | 7.6 | 7.6 | 8.6 | 8.6 |
| 82.5° | 6.4 | 6.4 | 6.4 | 6.4 | 5.4 | 5.4 | 6.4 | 6.4 | 7.6 | 8.6 | 8.6 |
| 85° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 6.4 | 6.4 | 7.6 | 7.6 |
| 87.5° | 3.3 | 3.3 | 3.3 | 4.3 | 4.3 | 5.4 | 5.4 | 5.4 | 5.4 | 6.4 | 6.4 |
| 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: P162663

CATALOG NUMBER: EMM-F04-LED-E1-SL4-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 495.0 | 495.0 | 495.0 | 495.0 |
| 2.5° | 373.7 | 372.6 | 368.3 | 369.4 |
| 5° | 262.0 | 255.6 | 259.9 | 258.8 |
| 7.5° | 192.2 | 191.1 | 190.1 | 192.2 |
| 10° | 164.3 | 164.3 | 163.2 | 164.3 |
| 12.5° | 154.6 | 154.6 | 154.6 | 154.6 |
| 15° | 147.2 | 147.2 | 146.0 | 146.0 |
| 17.5° | 138.5 | 138.5 | 138.5 | 137.5 |
| 20° | 129.9 | 128.9 | 128.9 | 128.9 |
| 22.5° | 120.3 | 119.2 | 119.2 | 119.2 |
| 25° | 110.6 | 109.6 | 109.6 | 109.6 |
| 27.5° | 101.0 | 99.8 | 98.8 | 98.8 |
| 30° | 91.3 | 90.2 | 89.1 | 89.1 |
| 32.5° | 81.7 | 80.5 | 79.5 | 79.5 |
| 35° | 73.1 | 73.1 | 71.9 | 70.9 |
| 37.5° | 65.5 | 65.5 | 65.5 | 65.5 |
| 40° | 60.1 | 61.2 | 61.2 | 61.2 |
| 42.5° | 56.9 | 57.9 | 59.1 | 60.1 |
| 45° | 54.8 | 56.9 | 57.9 | 57.9 |
| 47.5° | 53.6 | 54.8 | 55.8 | 55.8 |
| 50° | 49.4 | 48.3 | 48.3 | 48.3 |
| 52.5° | 39.8 | 37.6 | 36.5 | 35.5 |
| 55° | 29.0 | 27.9 | 25.8 | 25.8 |
| 57.5° | 20.4 | 20.4 | 19.3 | 19.3 |
| 60° | 16.2 | 16.2 | 15.0 | 16.2 |
| 62.5° | 14.0 | 14.0 | 14.0 | 14.0 |
| 65° | 12.9 | 12.9 | 12.9 | 12.9 |
| 67.5° | 12.9 | 12.9 | 12.9 | 12.9 |
| 69° | 11.9 | 11.9 | 11.9 | 11.9 |
| 70° | 11.9 | 11.9 | 11.9 | 11.9 |
| 72.5° | 10.7 | 10.7 | 10.7 | 10.7 |
| 75° | 9.7 | 10.7 | 10.7 | 10.7 |
| 77.5° | 9.7 | 9.7 | 9.7 | 9.7 |
| 80° | 8.6 | 8.6 | 9.7 | 9.7 |
| 82.5° | 8.6 | 8.6 | 8.6 | 8.6 |
| 85° | 7.6 | 7.6 | 8.6 | 8.6 |
| 87.5° | 6.4 | 6.4 | 7.6 | 7.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)