

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: STREETWORKS

Report Number: P145713

Luminaire Tested: **RDG-F04-LED-E-U-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145713  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33703)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: RDG-F04-LED-E-U-SL4-8030  
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8032 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

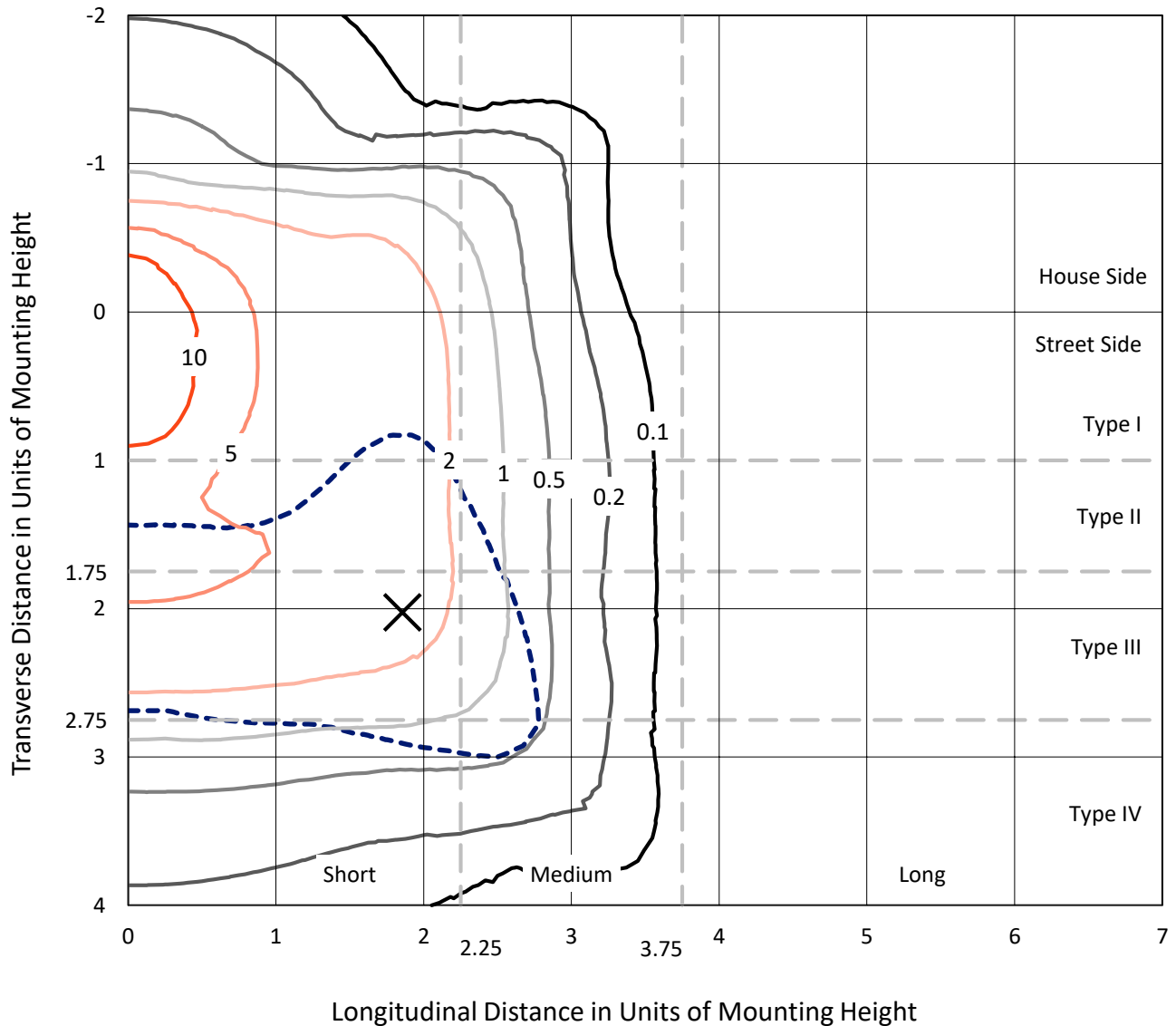
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

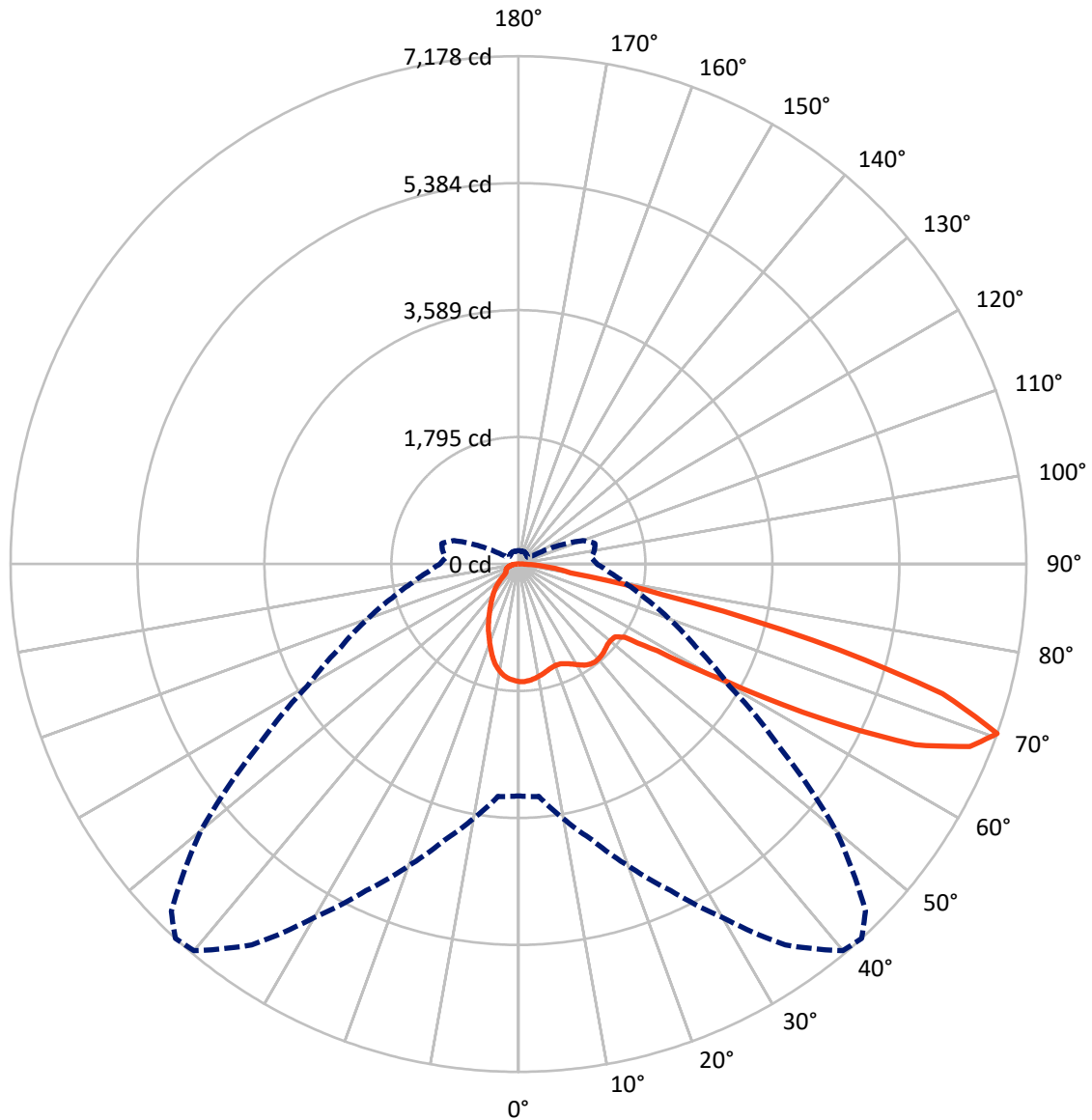
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1735.1   | 0.0    | 1735.1 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 6297.0   | 0.0    | 6297.0 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 8032.0   | 0.0    | 8032.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 154.5  | 1.9       |
| 10°-20°   | 416.3  | 5.2       |
| 20°-30°   | 607.3  | 7.6       |
| 30°-40°   | 774.5  | 9.6       |
| 40°-50°   | 904.0  | 11.3      |
| 50°-60°   | 1382.5 | 17.2      |
| 60°-70°   | 2506.1 | 31.2      |
| 70°-80°   | 1114.3 | 13.9      |
| 80°-90°   | 172.4  | 2.1       |
| 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°    | 8032.0 | 100.0     |
| 0°-180°   | 8032.0 | 100.0     |



REPORT NUMBER: P145713

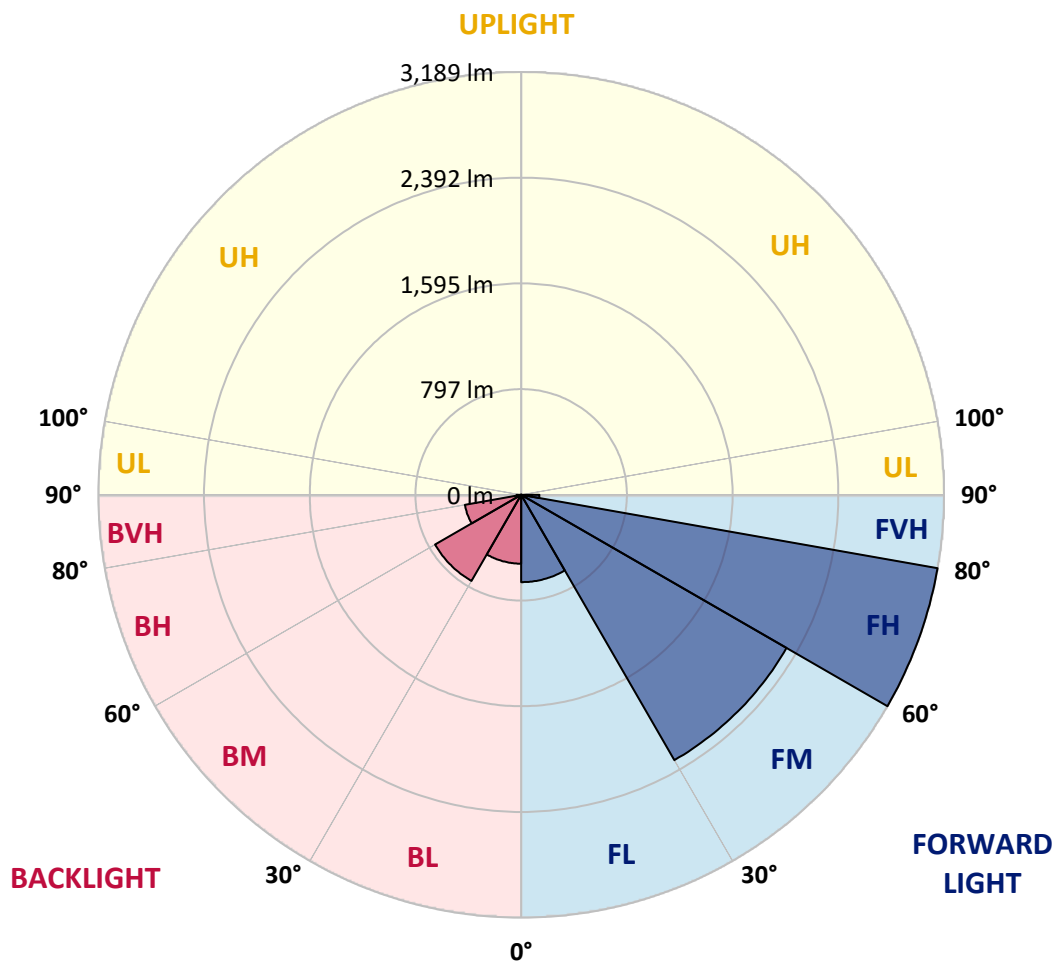
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 658.8  | 8.2       |                         |      |         |
| FM   | (30°-60°)   | 2311.0 | 28.8      |                         |      |         |
| FH   | (60°-80°)   | 3189.4 | 39.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 137.8  | 1.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 519.3  | 6.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 750.0  | 9.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 431.1  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 34.7   | 0.4       |                         |      | 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 IV Short





REPORT NUMBER: P145713

CATALOG NUMBER: RDG-F04-LED-E-U-SL4-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 42.5°  | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 |
| 2.5°  | 1668.8 | 1667.1 | 1668.3 | 1669.4 | 1669.4 | 1669.9 | 1664.9 | 1665.5 | 1663.2 | 1663.8 | 1664.4 |
| 5°    | 1662.7 | 1661.0 | 1662.1 | 1662.1 | 1662.1 | 1661.6 | 1654.9 | 1654.3 | 1651.5 | 1651.5 | 1650.4 |
| 7.5°  | 1651.0 | 1644.9 | 1648.2 | 1648.8 | 1647.6 | 1644.9 | 1641.0 | 1637.0 | 1635.4 | 1635.4 | 1631.5 |
| 10°   | 1633.1 | 1626.5 | 1628.1 | 1629.2 | 1628.7 | 1623.1 | 1621.4 | 1617.5 | 1613.1 | 1611.4 | 1607.0 |
| 12.5° | 1610.3 | 1605.8 | 1608.1 | 1607.5 | 1607.5 | 1602.5 | 1599.7 | 1594.1 | 1588.6 | 1585.8 | 1580.2 |
| 15°   | 1595.8 | 1590.2 | 1592.5 | 1592.5 | 1590.2 | 1585.2 | 1581.3 | 1571.3 | 1561.8 | 1558.5 | 1551.2 |
| 17.5° | 1604.7 | 1599.1 | 1601.4 | 1599.7 | 1595.8 | 1585.2 | 1575.2 | 1559.0 | 1544.0 | 1535.0 | 1525.6 |
| 20°   | 1640.4 | 1634.8 | 1636.5 | 1635.4 | 1629.8 | 1612.5 | 1594.1 | 1566.3 | 1538.4 | 1525.0 | 1510.5 |
| 22.5° | 1697.2 | 1692.8 | 1695.6 | 1693.9 | 1685.0 | 1662.7 | 1635.4 | 1595.2 | 1553.4 | 1533.4 | 1512.8 |
| 25°   | 1781.4 | 1780.3 | 1784.8 | 1779.7 | 1766.9 | 1733.5 | 1693.9 | 1639.8 | 1585.2 | 1560.1 | 1531.1 |
| 27.5° | 1882.9 | 1873.4 | 1880.1 | 1875.6 | 1866.7 | 1824.3 | 1770.8 | 1702.3 | 1632.6 | 1599.7 | 1565.1 |
| 30°   | 1974.3 | 1965.9 | 1978.2 | 1975.9 | 1962.6 | 1919.1 | 1851.6 | 1771.4 | 1692.8 | 1651.0 | 1611.4 |
| 32.5° | 2080.2 | 2069.6 | 2079.1 | 2079.1 | 2059.0 | 2000.5 | 1923.5 | 1831.6 | 1749.1 | 1704.5 | 1657.1 |
| 35°   | 2191.1 | 2179.9 | 2188.9 | 2186.1 | 2150.4 | 2072.9 | 1976.5 | 1876.7 | 1785.9 | 1740.2 | 1691.7 |
| 37.5° | 2294.2 | 2292.5 | 2294.8 | 2276.4 | 2226.8 | 2127.6 | 2012.2 | 1900.7 | 1804.3 | 1756.3 | 1705.6 |
| 40°   | 2397.3 | 2393.4 | 2384.0 | 2351.6 | 2279.2 | 2159.9 | 2030.6 | 1909.1 | 1805.4 | 1755.2 | 1703.9 |
| 42.5° | 2462.0 | 2454.7 | 2438.6 | 2394.5 | 2303.7 | 2167.7 | 2025.0 | 1896.2 | 1792.0 | 1740.7 | 1690.6 |
| 45°   | 2484.3 | 2477.0 | 2457.5 | 2407.9 | 2304.2 | 2155.4 | 2003.3 | 1870.6 | 1766.9 | 1720.1 | 1669.4 |
| 47.5° | 2465.9 | 2461.4 | 2443.6 | 2394.0 | 2286.4 | 2132.6 | 1975.9 | 1845.0 | 1743.0 | 1697.2 | 1649.9 |
| 50°   | 2434.7 | 2431.9 | 2416.3 | 2370.6 | 2269.7 | 2118.6 | 1963.1 | 1832.7 | 1736.3 | 1693.9 | 1649.3 |
| 52.5° | 2512.7 | 2504.3 | 2476.5 | 2422.4 | 2304.8 | 2143.7 | 1983.2 | 1851.1 | 1751.9 | 1709.0 | 1663.2 |
| 55°   | 3472.0 | 3410.1 | 3271.9 | 3012.7 | 2649.8 | 2368.3 | 2131.5 | 1972.0 | 1865.0 | 1823.2 | 1779.7 |
| 57.5° | 4566.1 | 4501.5 | 4444.1 | 4246.2 | 3815.3 | 3283.6 | 2805.3 | 2525.5 | 2333.8 | 2315.4 | 2298.1 |
| 60°   | 4987.5 | 5008.1 | 5003.1 | 4929.5 | 4708.8 | 4456.3 | 4056.1 | 3725.6 | 3359.4 | 3344.3 | 3366.1 |
| 62.5° | 5277.9 | 5295.2 | 5297.4 | 5275.1 | 5203.2 | 5119.1 | 5035.4 | 4929.5 | 4859.9 | 4829.8 | 4635.2 |
| 65°   | 5397.7 | 5422.8 | 5478.0 | 5519.3 | 5531.0 | 5559.9 | 5635.8 | 5923.9 | 6164.2 | 6162.5 | 5934.5 |
| 67.5° | 4940.1 | 4970.2 | 5179.3 | 5384.4 | 5556.6 | 5756.2 | 6063.3 | 6532.0 | 6893.8 | 6882.6 | 6695.9 |
| 70°   | 3278.6 | 3297.5 | 3652.6 | 4038.8 | 4539.9 | 5094.0 | 5765.1 | 6573.3 | 7134.0 | 7178.0 | 6937.3 |
| 72.5° | 2011.1 | 2054.5 | 2170.5 | 2327.1 | 2594.6 | 3108.0 | 4105.7 | 5486.9 | 6309.6 | 6268.4 | 6076.6 |
| 75°   | 1357.8 | 1360.0 | 1356.7 | 1373.4 | 1388.5 | 1492.1 | 1894.0 | 3017.1 | 4274.1 | 4296.4 | 4213.9 |
| 77.5° | 928.1  | 940.3  | 947.0  | 942.5  | 957.6  | 953.1  | 976.5  | 1034.0 | 1638.2 | 2090.8 | 1921.3 |
| 80°   | 811.0  | 816.0  | 823.3  | 812.7  | 784.8  | 769.2  | 790.9  | 770.3  | 725.7  | 749.7  | 717.9  |
| 82.5° | 513.4  | 528.4  | 530.1  | 566.9  | 621.5  | 623.7  | 651.6  | 631.0  | 574.1  | 536.8  | 491.1  |
| 85°   | 369.0  | 374.6  | 384.6  | 386.8  | 367.9  | 351.7  | 361.7  | 344.5  | 310.5  | 290.4  | 257.0  |
| 87.5° | 215.2  | 220.7  | 230.8  | 224.6  | 205.7  | 182.3  | 164.4  | 141.6  | 112.0  | 104.8  | 92.5   |
| 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: P145713

CATALOG NUMBER: RDG-F04-LED-E-U-SL4-8030

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 |
| 2.5°  | 1664.9 | 1662.1 | 1659.9 | 1658.8 | 1661.0 | 1658.8 | 1656.6 | 1655.4 | 1653.2 | 1653.8 | 1651.0 |
| 5°    | 1649.3 | 1645.4 | 1642.1 | 1639.3 | 1641.5 | 1637.6 | 1634.3 | 1632.0 | 1629.2 | 1628.7 | 1625.9 |
| 7.5°  | 1627.6 | 1621.4 | 1617.0 | 1612.0 | 1606.4 | 1603.0 | 1599.1 | 1595.2 | 1589.1 | 1588.6 | 1587.4 |
| 10°   | 1599.1 | 1594.1 | 1585.2 | 1577.4 | 1569.6 | 1561.2 | 1552.9 | 1546.8 | 1539.5 | 1536.7 | 1532.8 |
| 12.5° | 1570.7 | 1560.7 | 1550.1 | 1537.8 | 1528.4 | 1515.0 | 1503.8 | 1492.1 | 1481.5 | 1474.8 | 1467.6 |
| 15°   | 1537.3 | 1526.7 | 1511.6 | 1499.9 | 1486.6 | 1471.5 | 1457.0 | 1439.7 | 1422.5 | 1411.9 | 1401.8 |
| 17.5° | 1508.3 | 1494.9 | 1482.7 | 1465.9 | 1452.6 | 1435.3 | 1413.5 | 1395.1 | 1374.5 | 1357.2 | 1338.8 |
| 20°   | 1486.0 | 1470.9 | 1456.5 | 1441.4 | 1425.2 | 1405.7 | 1381.8 | 1355.6 | 1329.4 | 1304.8 | 1277.5 |
| 22.5° | 1477.1 | 1453.1 | 1436.9 | 1423.0 | 1406.3 | 1384.0 | 1357.2 | 1324.9 | 1292.6 | 1261.4 | 1229.6 |
| 25°   | 1484.9 | 1449.2 | 1424.1 | 1408.5 | 1393.5 | 1370.6 | 1340.5 | 1303.7 | 1265.8 | 1226.3 | 1188.4 |
| 27.5° | 1506.1 | 1460.9 | 1425.2 | 1400.7 | 1383.4 | 1361.1 | 1327.7 | 1289.2 | 1246.3 | 1201.7 | 1161.0 |
| 30°   | 1536.7 | 1480.4 | 1435.8 | 1400.7 | 1375.1 | 1349.4 | 1313.2 | 1269.7 | 1224.6 | 1177.8 | 1132.1 |
| 32.5° | 1570.2 | 1502.2 | 1448.7 | 1402.4 | 1362.8 | 1330.5 | 1292.6 | 1250.2 | 1202.3 | 1152.7 | 1103.6 |
| 35°   | 1595.2 | 1517.8 | 1454.2 | 1396.3 | 1345.5 | 1304.8 | 1264.2 | 1222.9 | 1176.1 | 1125.9 | 1076.9 |
| 37.5° | 1605.8 | 1523.9 | 1453.1 | 1383.4 | 1321.6 | 1277.0 | 1234.6 | 1193.4 | 1148.2 | 1100.8 | 1055.7 |
| 40°   | 1606.4 | 1523.9 | 1446.4 | 1366.2 | 1296.5 | 1248.0 | 1203.4 | 1164.9 | 1122.6 | 1081.9 | 1041.8 |
| 42.5° | 1595.8 | 1516.1 | 1434.2 | 1350.0 | 1278.1 | 1223.5 | 1177.8 | 1138.2 | 1104.2 | 1068.0 | 1034.0 |
| 45°   | 1576.9 | 1500.5 | 1423.0 | 1341.1 | 1271.4 | 1217.3 | 1168.3 | 1130.9 | 1100.3 | 1068.0 | 1038.4 |
| 47.5° | 1562.4 | 1491.6 | 1423.6 | 1353.9 | 1287.6 | 1231.8 | 1178.9 | 1139.3 | 1113.1 | 1087.5 | 1066.3 |
| 50°   | 1565.1 | 1494.9 | 1430.3 | 1363.9 | 1298.7 | 1242.4 | 1191.1 | 1157.1 | 1141.5 | 1133.2 | 1128.2 |
| 52.5° | 1579.6 | 1508.3 | 1459.2 | 1415.2 | 1394.0 | 1359.5 | 1331.0 | 1305.4 | 1309.3 | 1289.2 | 1263.6 |
| 55°   | 1729.0 | 1705.1 | 1761.3 | 1802.0 | 1822.1 | 1857.2 | 1907.9 | 1859.4 | 1852.8 | 1790.9 | 1607.0 |
| 57.5° | 2321.5 | 2378.4 | 2464.8 | 2526.1 | 2532.2 | 2521.6 | 2479.8 | 2439.7 | 2374.5 | 2281.4 | 2023.9 |
| 60°   | 3315.3 | 3302.0 | 3221.7 | 3114.1 | 3030.5 | 2920.7 | 2810.4 | 2717.3 | 2612.5 | 2469.8 | 2195.6 |
| 62.5° | 4360.4 | 4038.3 | 3752.3 | 3508.8 | 3302.0 | 3118.6 | 2951.9 | 2812.0 | 2668.2 | 2463.1 | 2171.0 |
| 65°   | 5204.3 | 4584.5 | 4080.6 | 3688.8 | 3381.1 | 3121.9 | 2906.8 | 2713.9 | 2521.6 | 2284.2 | 2001.0 |
| 67.5° | 5807.4 | 4824.2 | 4063.9 | 3512.7 | 3081.2 | 2724.5 | 2411.3 | 2191.7 | 1994.3 | 1807.6 | 1680.0 |
| 70°   | 5855.4 | 4492.6 | 3438.0 | 2763.5 | 2265.8 | 1846.6 | 1521.7 | 1282.0 | 1110.3 | 1032.8 | 1088.0 |
| 72.5° | 5003.7 | 3323.7 | 2285.8 | 1691.7 | 1342.7 | 1043.4 | 838.9  | 670.5  | 532.3  | 464.3  | 473.8  |
| 75°   | 2946.9 | 1595.8 | 1029.5 | 767.0  | 626.5  | 500.5  | 433.1  | 365.6  | 322.7  | 258.6  | 206.8  |
| 77.5° | 1122.0 | 693.9  | 519.5  | 431.4  | 307.7  | 221.3  | 174.5  | 150.5  | 138.2  | 136.6  | 129.3  |
| 80°   | 646.6  | 508.9  | 356.2  | 233.0  | 170.6  | 144.4  | 123.7  | 105.9  | 98.7   | 97.0   | 99.8   |
| 82.5° | 408.6  | 317.2  | 195.6  | 149.9  | 124.3  | 107.0  | 89.2   | 77.5   | 71.3   | 69.1   | 73.0   |
| 85°   | 211.3  | 158.9  | 119.3  | 102.6  | 95.3   | 87.0   | 71.3   | 59.6   | 59.1   | 61.9   | 71.3   |
| 87.5° | 78.0   | 68.0   | 53.5   | 46.3   | 49.6   | 46.3   | 33.4   | 29.0   | 26.2   | 34.6   | 50.2   |
| 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: P145713

CATALOG NUMBER: RDG-F04-LED-E-U-SL4-8030

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 |
| 2.5°  | 1651.0 | 1649.9 | 1650.4 | 1649.3 | 1649.3 | 1651.0 | 1648.8 | 1647.1 | 1649.9 | 1649.9 | 1651.5 |
| 5°    | 1625.3 | 1626.5 | 1626.5 | 1625.9 | 1627.0 | 1629.8 | 1629.2 | 1629.2 | 1633.7 | 1635.4 | 1637.6 |
| 7.5°  | 1584.7 | 1586.3 | 1586.9 | 1588.6 | 1589.1 | 1593.0 | 1595.8 | 1599.1 | 1605.8 | 1607.5 | 1612.5 |
| 10°   | 1529.5 | 1528.4 | 1532.3 | 1531.7 | 1536.7 | 1540.1 | 1542.3 | 1549.5 | 1559.6 | 1565.1 | 1570.2 |
| 12.5° | 1464.3 | 1464.3 | 1466.5 | 1467.0 | 1471.5 | 1476.0 | 1478.8 | 1487.7 | 1496.0 | 1503.3 | 1514.4 |
| 15°   | 1395.1 | 1392.9 | 1387.9 | 1387.3 | 1389.0 | 1393.5 | 1399.6 | 1406.3 | 1419.1 | 1429.7 | 1439.2 |
| 17.5° | 1322.7 | 1316.0 | 1309.9 | 1302.1 | 1301.5 | 1300.9 | 1304.3 | 1309.3 | 1329.4 | 1340.0 | 1353.3 |
| 20°   | 1258.6 | 1244.1 | 1229.6 | 1213.4 | 1204.0 | 1199.5 | 1201.2 | 1207.9 | 1226.8 | 1240.7 | 1254.7 |
| 22.5° | 1201.2 | 1179.4 | 1156.6 | 1130.9 | 1115.3 | 1105.9 | 1107.0 | 1109.8 | 1123.7 | 1132.1 | 1139.3 |
| 25°   | 1152.1 | 1122.0 | 1090.3 | 1057.4 | 1035.6 | 1021.1 | 1020.6 | 1020.6 | 1014.4 | 1015.6 | 1011.7 |
| 27.5° | 1118.7 | 1076.9 | 1036.2 | 997.7  | 969.3  | 954.8  | 935.3  | 921.4  | 909.1  | 892.4  | 885.1  |
| 30°   | 1086.4 | 1043.4 | 997.2  | 954.8  | 920.8  | 892.4  | 856.1  | 826.0  | 802.1  | 779.2  | 759.7  |
| 32.5° | 1057.4 | 1012.8 | 968.7  | 922.5  | 875.7  | 826.6  | 779.2  | 744.7  | 710.7  | 675.6  | 652.1  |
| 35°   | 1031.7 | 989.9  | 945.9  | 893.5  | 827.7  | 763.6  | 710.1  | 663.3  | 623.2  | 580.8  | 546.8  |
| 37.5° | 1017.2 | 979.3  | 933.6  | 862.3  | 779.8  | 706.8  | 647.1  | 594.7  | 541.2  | 490.5  | 448.7  |
| 40°   | 1010.0 | 976.5  | 920.8  | 830.5  | 736.9  | 658.8  | 592.5  | 529.5  | 466.5  | 406.9  | 363.4  |
| 42.5° | 1008.9 | 976.5  | 901.9  | 798.2  | 700.1  | 616.5  | 542.3  | 466.5  | 390.2  | 332.2  | 293.7  |
| 45°   | 1018.9 | 975.4  | 881.8  | 769.2  | 667.2  | 578.6  | 489.4  | 400.2  | 321.6  | 270.9  | 249.7  |
| 47.5° | 1047.9 | 979.3  | 866.2  | 744.7  | 636.0  | 536.8  | 429.2  | 326.6  | 259.7  | 236.9  | 236.3  |
| 50°   | 1094.7 | 997.2  | 862.8  | 726.8  | 605.3  | 484.4  | 358.4  | 261.4  | 229.1  | 228.0  | 234.1  |
| 52.5° | 1168.8 | 1030.6 | 871.2  | 714.6  | 568.5  | 416.4  | 283.7  | 225.7  | 219.6  | 225.7  | 233.5  |
| 55°   | 1332.2 | 1090.3 | 882.3  | 692.8  | 508.9  | 330.0  | 233.5  | 214.0  | 216.8  | 224.1  | 231.3  |
| 57.5° | 1629.2 | 1214.0 | 894.1  | 643.8  | 412.5  | 253.6  | 210.1  | 209.6  | 214.6  | 220.7  | 227.4  |
| 60°   | 1817.6 | 1366.7 | 922.5  | 571.3  | 311.6  | 209.6  | 201.2  | 206.8  | 212.9  | 217.4  | 223.0  |
| 62.5° | 1823.8 | 1406.8 | 937.5  | 493.8  | 231.9  | 191.7  | 193.4  | 204.0  | 211.3  | 212.9  | 215.7  |
| 65°   | 1706.2 | 1331.0 | 869.5  | 401.9  | 192.3  | 181.7  | 187.8  | 197.3  | 204.6  | 205.7  | 207.9  |
| 67.5° | 1490.5 | 1173.9 | 736.9  | 303.2  | 175.0  | 173.9  | 180.6  | 187.8  | 192.9  | 197.3  | 200.7  |
| 70°   | 1122.6 | 968.7  | 592.5  | 235.2  | 164.4  | 163.3  | 170.0  | 176.1  | 180.6  | 186.2  | 191.7  |
| 72.5° | 569.1  | 670.5  | 449.3  | 192.3  | 149.9  | 151.1  | 158.3  | 163.9  | 167.2  | 172.2  | 177.8  |
| 75°   | 194.0  | 292.6  | 284.3  | 155.5  | 133.8  | 138.2  | 141.6  | 147.7  | 152.7  | 156.1  | 158.9  |
| 77.5° | 121.5  | 127.1  | 146.6  | 125.4  | 118.2  | 119.3  | 124.9  | 130.4  | 136.0  | 138.2  | 139.3  |
| 80°   | 101.4  | 102.0  | 102.6  | 100.3  | 100.9  | 104.2  | 107.6  | 113.7  | 119.3  | 120.4  | 121.0  |
| 82.5° | 80.3   | 85.8   | 85.3   | 84.7   | 87.5   | 90.9   | 93.1   | 95.3   | 97.5   | 98.7   | 100.3  |
| 85°   | 70.8   | 69.7   | 70.2   | 71.9   | 69.7   | 67.4   | 66.9   | 66.9   | 70.2   | 74.1   | 75.8   |
| 87.5° | 64.7   | 55.2   | 41.2   | 39.0   | 39.0   | 37.9   | 35.7   | 35.7   | 39.0   | 42.4   | 44.0   |
| 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: P145713

CATALOG NUMBER: RDG-F04-LED-E-U-SL4-8030

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|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1661.0 | 1661.0 | 1661.0 | 1661.0 | 1661.0 |
| 2.5°  | 1651.0 | 1651.5 | 1651.0 | 1651.0 | 1653.8 |
| 5°    | 1638.7 | 1641.0 | 1639.8 | 1641.5 | 1643.2 |
| 7.5°  | 1613.6 | 1619.2 | 1620.3 | 1624.8 | 1623.1 |
| 10°   | 1577.4 | 1581.3 | 1586.9 | 1591.3 | 1589.7 |
| 12.5° | 1520.0 | 1529.5 | 1537.8 | 1542.9 | 1541.7 |
| 15°   | 1447.0 | 1460.4 | 1471.5 | 1475.4 | 1470.9 |
| 17.5° | 1368.9 | 1377.3 | 1390.7 | 1393.5 | 1397.9 |
| 20°   | 1270.3 | 1269.7 | 1281.4 | 1281.4 | 1279.2 |
| 22.5° | 1141.5 | 1149.9 | 1149.9 | 1142.1 | 1138.2 |
| 25°   | 1010.0 | 1012.8 | 1004.4 | 1006.1 | 995.5  |
| 27.5° | 877.9  | 870.6  | 864.0  | 866.7  | 858.9  |
| 30°   | 751.9  | 736.3  | 729.6  | 730.7  | 722.4  |
| 32.5° | 631.0  | 612.6  | 605.9  | 597.0  | 589.7  |
| 35°   | 521.2  | 492.2  | 474.9  | 470.4  | 475.5  |
| 37.5° | 413.6  | 393.0  | 372.3  | 357.3  | 359.0  |
| 40°   | 327.2  | 306.0  | 292.6  | 286.5  | 285.4  |
| 42.5° | 270.3  | 258.1  | 255.3  | 255.8  | 255.8  |
| 45°   | 245.3  | 245.8  | 248.0  | 250.3  | 250.8  |
| 47.5° | 240.2  | 243.6  | 247.5  | 250.3  | 250.8  |
| 50°   | 239.7  | 243.0  | 245.8  | 249.2  | 250.3  |
| 52.5° | 239.1  | 241.3  | 243.0  | 244.7  | 246.4  |
| 55°   | 236.9  | 238.0  | 237.4  | 238.6  | 240.2  |
| 57.5° | 231.3  | 231.9  | 230.8  | 231.3  | 234.7  |
| 60°   | 226.3  | 226.9  | 224.6  | 227.4  | 228.0  |
| 62.5° | 220.2  | 219.6  | 218.5  | 220.2  | 220.2  |
| 65°   | 211.3  | 207.9  | 209.0  | 210.7  | 211.3  |
| 67.5° | 200.7  | 197.3  | 197.3  | 198.4  | 200.1  |
| 70°   | 187.3  | 185.6  | 185.6  | 187.8  | 190.1  |
| 72.5° | 172.2  | 173.3  | 176.7  | 180.0  | 183.4  |
| 75°   | 160.0  | 162.8  | 166.1  | 174.5  | 179.5  |
| 77.5° | 144.4  | 144.9  | 147.7  | 156.1  | 165.0  |
| 80°   | 122.6  | 122.1  | 122.6  | 123.7  | 125.4  |
| 82.5° | 97.0   | 95.9   | 92.5   | 93.6   | 91.4   |
| 85°   | 71.3   | 69.7   | 65.8   | 63.0   | 62.4   |
| 87.5° | 41.2   | 41.2   | 39.6   | 37.3   | 35.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)