

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: McGRAW-EDISON

Report Number: P143783

Luminaire Tested: **CNC-F03-LED-E1-CQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P143783  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CNC-F03-LED-E1-CQ-8030  
Description: CONCISE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - CONCENTRATED TYPE 5 SQUARE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6495.7 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

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

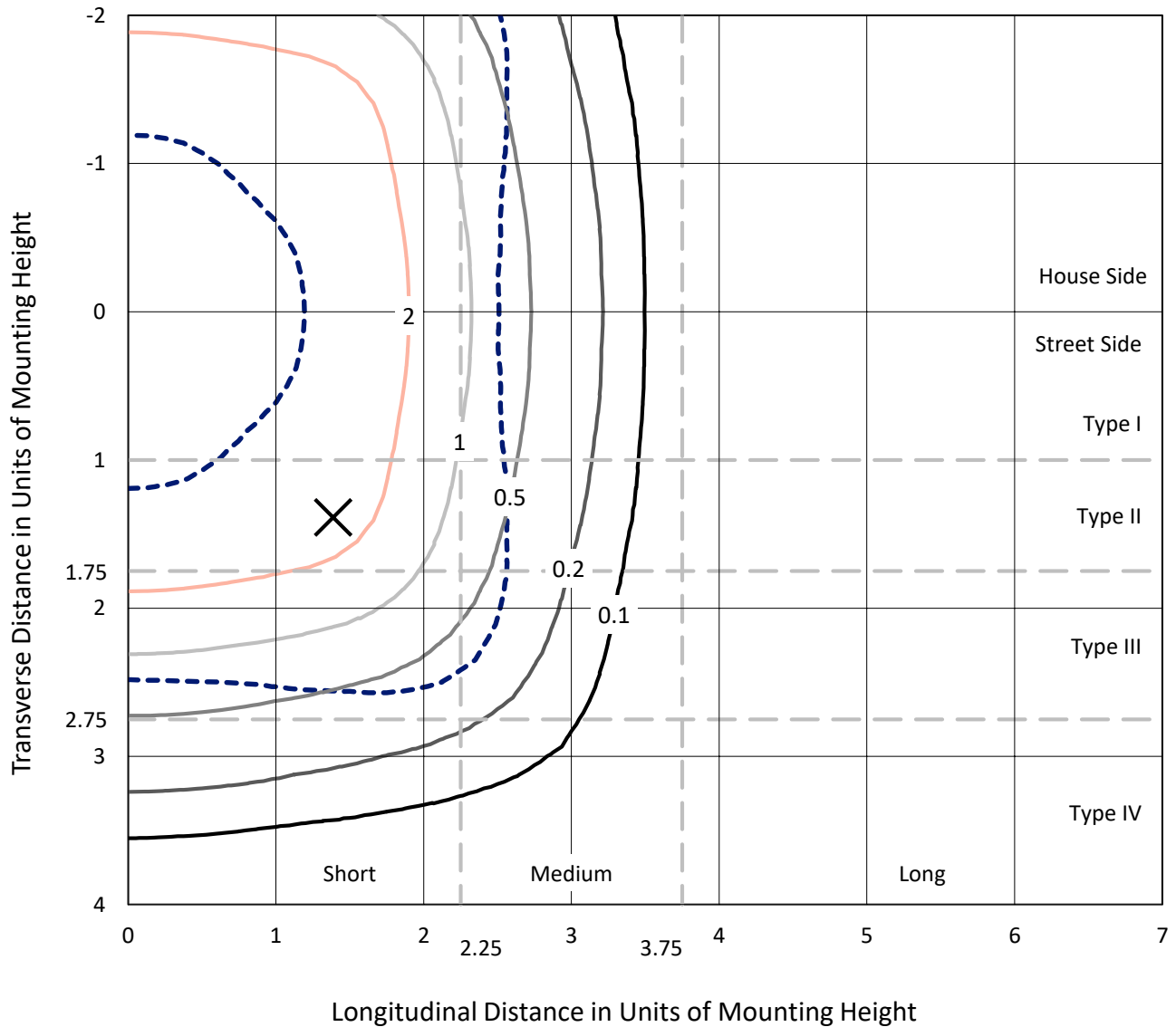


REPORT NUMBER: P143783

CATALOG NUMBER: CNC-F03-LED-E1-CQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

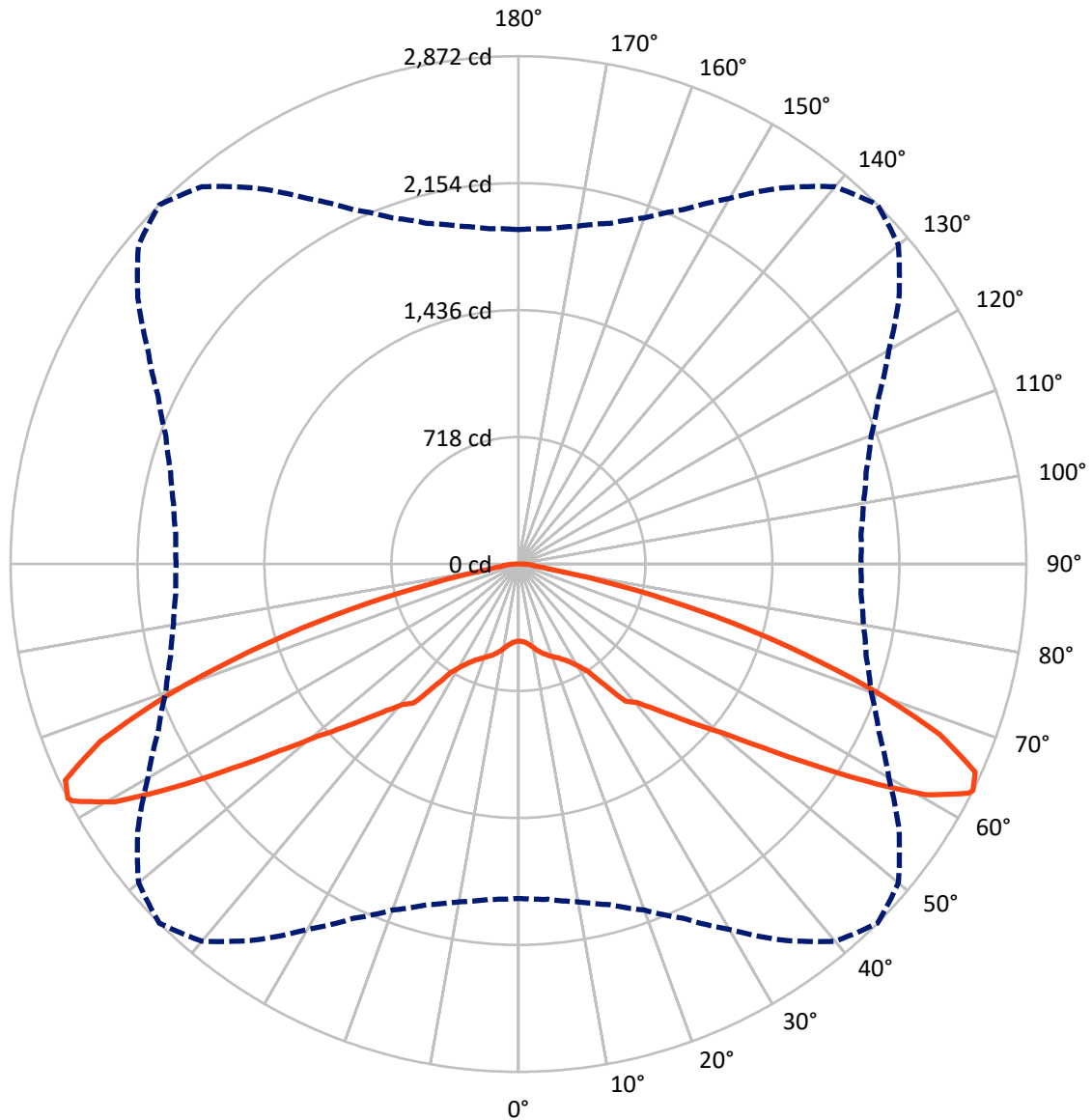
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P143783  
CATALOG NUMBER: CNC-F03-LED-E1-CQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3247.8   | 0.0    | 3247.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3247.8   | 0.0    | 3247.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6495.7   | 0.0    | 6495.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.9   | 0.7       |
| 10°-20°   | 150.0  | 2.3       |
| 20°-30°   | 286.4  | 4.4       |
| 30°-40°   | 545.7  | 8.4       |
| 40°-50°   | 939.6  | 14.5      |
| 50°-60°   | 1679.1 | 25.8      |
| 60°-70°   | 2045.2 | 31.5      |
| 70°-80°   | 728.5  | 11.2      |
| 80°-90°   | 77.2   | 1.2       |
| 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°    | 6495.7 | 100.0     |
| 0°-180°   | 6495.7 | 100.0     |



REPORT NUMBER: P143783

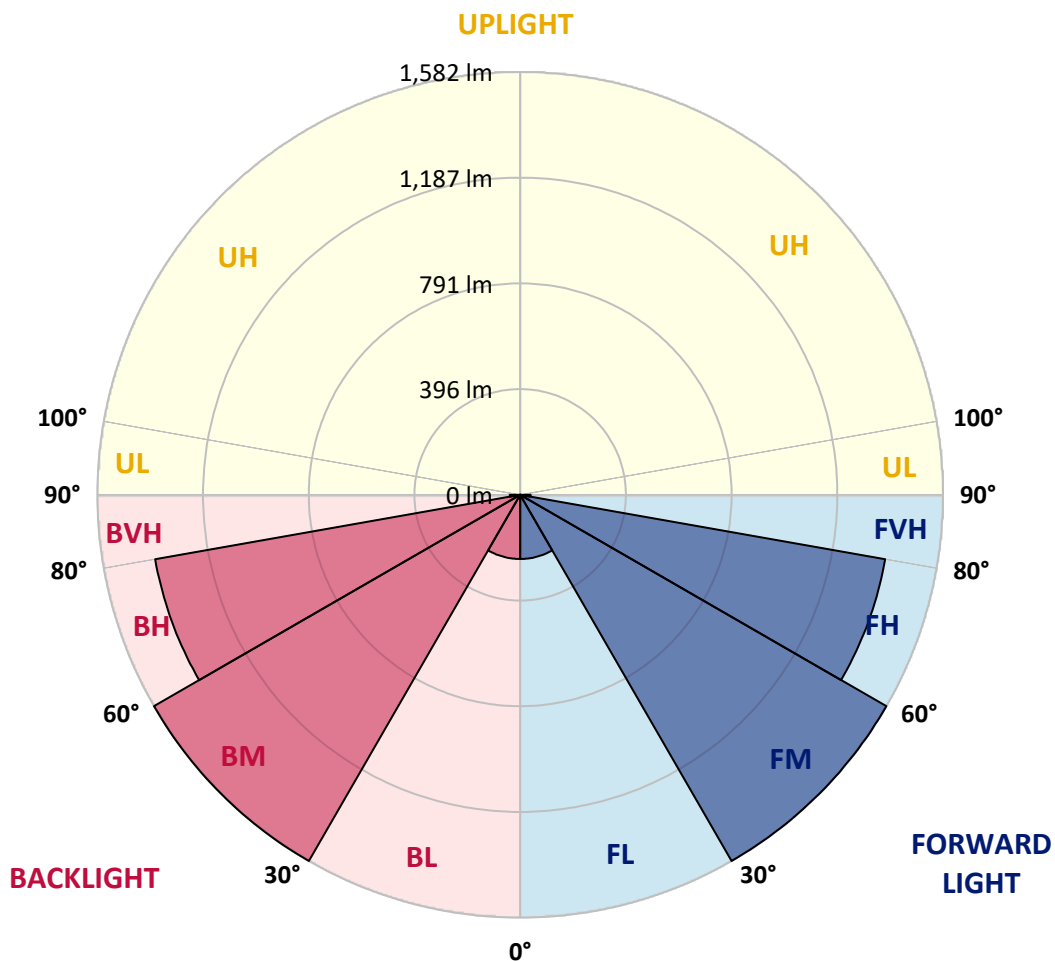
CATALOG NUMBER: CNC-F03-LED-E1-CQ-8030

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 240.1  | 3.7       |                         |      |         |
| FM (30°-60°)   | 1582.2 | 24.4      |                         |      |         |
| FH (60°-80°)   | 1386.9 | 21.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 38.6   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 240.1  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1582.2 | 24.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 1386.9 | 21.4      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 38.6   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P143783

CATALOG NUMBER: CNC-F03-LED-E1-CQ-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  |
| 2.5°  | 439.4  | 438.9  | 439.4  | 438.5  | 438.5  | 438.1  | 438.1  | 438.1  | 437.3  | 438.1  | 437.3  |
| 5°    | 448.6  | 448.1  | 448.6  | 447.7  | 447.7  | 446.9  | 446.9  | 446.9  | 446.1  | 446.9  | 446.5  |
| 7.5°  | 464.4  | 465.3  | 464.4  | 463.6  | 463.6  | 462.8  | 462.4  | 462.4  | 461.9  | 461.5  | 462.4  |
| 10°   | 486.6  | 487.4  | 486.2  | 485.3  | 484.9  | 484.5  | 483.7  | 483.3  | 483.3  | 481.6  | 482.0  |
| 12.5° | 510.0  | 510.0  | 508.8  | 508.3  | 508.3  | 507.5  | 505.8  | 505.4  | 505.4  | 504.6  | 503.7  |
| 15°   | 530.9  | 530.9  | 530.1  | 528.4  | 528.8  | 527.6  | 526.3  | 525.5  | 525.5  | 524.6  | 523.8  |
| 17.5° | 550.1  | 550.1  | 548.9  | 547.2  | 546.4  | 546.0  | 544.3  | 543.5  | 543.5  | 542.6  | 541.8  |
| 20°   | 569.4  | 570.2  | 568.1  | 566.4  | 564.8  | 563.1  | 561.4  | 560.6  | 559.3  | 559.8  | 559.3  |
| 22.5° | 592.4  | 592.8  | 589.4  | 587.3  | 584.0  | 581.9  | 579.4  | 578.6  | 576.9  | 576.9  | 577.7  |
| 25°   | 621.6  | 621.2  | 617.4  | 613.7  | 609.9  | 605.7  | 602.0  | 601.1  | 599.5  | 599.1  | 599.5  |
| 27.5° | 660.1  | 659.7  | 655.1  | 650.1  | 645.0  | 638.8  | 634.2  | 631.7  | 630.4  | 628.7  | 629.6  |
| 30°   | 707.3  | 708.2  | 702.7  | 696.9  | 690.6  | 683.1  | 677.2  | 673.9  | 671.4  | 669.7  | 670.5  |
| 32.5° | 803.5  | 802.6  | 794.3  | 781.7  | 768.4  | 750.8  | 736.6  | 730.7  | 726.1  | 724.5  | 725.7  |
| 35°   | 900.0  | 899.2  | 895.9  | 892.1  | 888.8  | 877.5  | 867.0  | 854.9  | 844.9  | 838.6  | 840.3  |
| 37.5° | 945.6  | 945.6  | 943.1  | 942.3  | 942.3  | 949.0  | 957.3  | 972.4  | 984.1  | 984.9  | 981.1  |
| 40°   | 1016.7 | 1016.7 | 1012.5 | 1010.4 | 1009.2 | 1011.2 | 1016.7 | 1022.1 | 1028.0 | 1029.2 | 1025.0 |
| 42.5° | 1100.3 | 1096.5 | 1093.6 | 1089.4 | 1089.0 | 1091.1 | 1096.9 | 1103.6 | 1109.5 | 1114.5 | 1105.7 |
| 45°   | 1190.6 | 1187.2 | 1184.3 | 1181.8 | 1183.5 | 1188.9 | 1196.9 | 1208.6 | 1216.9 | 1224.4 | 1217.3 |
| 47.5° | 1291.3 | 1284.2 | 1287.1 | 1284.6 | 1288.8 | 1299.7 | 1313.9 | 1331.5 | 1340.2 | 1353.6 | 1342.3 |
| 50°   | 1416.7 | 1418.4 | 1416.7 | 1416.7 | 1421.8 | 1436.0 | 1456.9 | 1480.7 | 1495.8 | 1503.3 | 1496.6 |
| 52.5° | 1603.2 | 1598.2 | 1586.9 | 1590.2 | 1596.9 | 1619.5 | 1646.7 | 1680.1 | 1699.3 | 1717.3 | 1696.4 |
| 55°   | 1807.2 | 1808.0 | 1806.4 | 1811.0 | 1823.9 | 1846.9 | 1881.2 | 1931.8 | 1956.0 | 1987.4 | 1962.3 |
| 57.5° | 1976.1 | 1981.9 | 1992.0 | 2005.8 | 2033.8 | 2072.2 | 2139.5 | 2216.9 | 2281.3 | 2315.1 | 2275.8 |
| 60°   | 2030.8 | 2036.7 | 2060.9 | 2099.4 | 2152.1 | 2230.7 | 2339.8 | 2472.3 | 2588.1 | 2648.3 | 2596.9 |
| 62.5° | 1925.5 | 1936.4 | 1972.3 | 2025.4 | 2112.4 | 2235.3 | 2397.5 | 2593.5 | 2772.0 | 2854.4 | 2792.1 |
| 63°   | 1891.2 | 1903.3 | 1940.1 | 1994.1 | 2082.7 | 2211.0 | 2386.2 | 2596.0 | 2785.0 | 2871.9 | 2804.6 |
| 65°   | 1739.1 | 1747.0 | 1785.9 | 1847.3 | 1946.0 | 2079.8 | 2274.6 | 2522.9 | 2738.2 | 2838.9 | 2767.4 |
| 67.5° | 1499.5 | 1510.0 | 1545.5 | 1598.6 | 1694.3 | 1836.0 | 2027.5 | 2275.0 | 2486.9 | 2567.6 | 2506.6 |
| 70°   | 1202.7 | 1214.4 | 1243.7 | 1293.0 | 1368.2 | 1499.5 | 1663.4 | 1894.6 | 2053.8 | 2117.0 | 2051.7 |
| 72.5° | 845.3  | 850.3  | 871.6  | 923.5  | 979.9  | 1084.4 | 1214.4 | 1394.2 | 1547.2 | 1588.6 | 1525.9 |
| 75°   | 357.8  | 358.3  | 386.3  | 419.3  | 489.9  | 594.0  | 707.3  | 862.0  | 999.5  | 1063.9 | 984.5  |
| 77.5° | 114.5  | 115.8  | 123.7  | 135.9  | 159.3  | 205.7  | 289.3  | 374.1  | 500.4  | 561.4  | 487.0  |
| 80°   | 95.7   | 97.4   | 100.7  | 103.3  | 104.9  | 107.4  | 117.1  | 130.4  | 164.3  | 191.0  | 154.3  |
| 82.5° | 82.4   | 85.3   | 92.8   | 95.7   | 97.4   | 98.2   | 99.5   | 99.1   | 97.0   | 96.1   | 96.6   |
| 85°   | 62.7   | 69.8   | 78.2   | 84.9   | 85.7   | 86.1   | 88.6   | 89.5   | 82.8   | 76.1   | 82.8   |
| 87.5° | 27.2   | 35.1   | 53.9   | 59.8   | 58.5   | 54.3   | 58.1   | 61.5   | 56.0   | 41.0   | 54.8   |
| 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: P143783

CATALOG NUMBER: CNC-F03-LED-E1-CQ-8030

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  | 436.0  |
| 2.5°  | 437.7  | 438.5  | 438.5  | 438.5  | 438.5  | 438.9  | 439.4  | 438.9  |
| 5°    | 446.9  | 447.7  | 447.3  | 447.7  | 447.7  | 448.1  | 448.6  | 448.1  |
| 7.5°  | 462.8  | 462.8  | 462.8  | 463.6  | 463.6  | 464.4  | 464.4  | 464.4  |
| 10°   | 482.4  | 482.0  | 482.0  | 482.8  | 483.7  | 484.1  | 484.9  | 484.5  |
| 12.5° | 503.7  | 502.9  | 503.3  | 504.2  | 505.0  | 505.4  | 506.2  | 505.8  |
| 15°   | 523.0  | 522.6  | 522.6  | 523.8  | 524.2  | 524.6  | 526.3  | 526.3  |
| 17.5° | 541.4  | 541.4  | 541.4  | 543.0  | 543.5  | 545.1  | 546.4  | 546.4  |
| 20°   | 559.8  | 559.8  | 559.8  | 561.4  | 562.7  | 565.2  | 567.7  | 567.3  |
| 22.5° | 578.6  | 579.0  | 579.8  | 581.5  | 584.4  | 588.2  | 590.3  | 590.3  |
| 25°   | 602.0  | 603.7  | 605.3  | 607.8  | 612.0  | 617.0  | 620.4  | 621.6  |
| 27.5° | 632.1  | 635.8  | 640.0  | 643.8  | 648.4  | 654.7  | 659.3  | 660.1  |
| 30°   | 673.0  | 678.5  | 685.2  | 690.2  | 696.0  | 703.1  | 708.6  | 711.5  |
| 32.5° | 731.2  | 744.5  | 753.3  | 771.3  | 782.2  | 794.3  | 804.3  | 808.5  |
| 35°   | 850.7  | 864.1  | 875.8  | 887.9  | 890.4  | 894.6  | 900.0  | 901.3  |
| 37.5° | 969.0  | 958.2  | 947.7  | 947.3  | 944.4  | 945.2  | 946.9  | 949.0  |
| 40°   | 1020.4 | 1017.1 | 1011.7 | 1013.8 | 1014.2 | 1014.2 | 1017.5 | 1017.9 |
| 42.5° | 1103.2 | 1095.3 | 1089.0 | 1094.0 | 1094.9 | 1095.7 | 1099.0 | 1102.8 |
| 45°   | 1208.6 | 1196.4 | 1188.5 | 1185.6 | 1188.5 | 1187.7 | 1192.3 | 1193.1 |
| 47.5° | 1329.0 | 1313.1 | 1295.1 | 1289.2 | 1287.6 | 1283.8 | 1291.7 | 1290.9 |
| 50°   | 1476.5 | 1451.0 | 1429.3 | 1420.9 | 1416.7 | 1414.7 | 1416.7 | 1416.7 |
| 52.5° | 1663.4 | 1637.9 | 1608.2 | 1598.6 | 1595.2 | 1599.8 | 1593.2 | 1600.3 |
| 55°   | 1920.5 | 1879.1 | 1838.5 | 1825.6 | 1823.5 | 1821.4 | 1822.2 | 1825.2 |
| 57.5° | 2209.8 | 2136.2 | 2081.8 | 2050.1 | 2029.6 | 2019.6 | 2008.7 | 2007.0 |
| 60°   | 2489.0 | 2355.2 | 2252.0 | 2181.8 | 2132.0 | 2094.4 | 2075.2 | 2068.5 |
| 62.5° | 2623.6 | 2428.0 | 2267.5 | 2147.9 | 2073.9 | 2012.5 | 1978.6 | 1969.8 |
| 63°   | 2627.4 | 2418.8 | 2248.6 | 2122.4 | 2036.3 | 1981.1 | 1945.1 | 1935.9 |
| 65°   | 2557.6 | 2320.1 | 2120.7 | 1981.9 | 1890.8 | 1833.1 | 1788.8 | 1779.2 |
| 67.5° | 2303.4 | 2073.1 | 1869.1 | 1728.2 | 1629.5 | 1583.1 | 1534.2 | 1533.0 |
| 70°   | 1890.4 | 1684.7 | 1512.9 | 1383.3 | 1300.9 | 1255.0 | 1205.2 | 1206.5 |
| 72.5° | 1382.0 | 1199.4 | 1081.1 | 979.9  | 892.9  | 849.5  | 802.6  | 807.2  |
| 75°   | 831.9  | 668.9  | 562.3  | 474.5  | 385.0  | 331.5  | 295.6  | 275.1  |
| 77.5° | 355.8  | 243.3  | 174.7  | 138.8  | 117.1  | 108.3  | 104.1  | 102.8  |
| 80°   | 123.7  | 109.5  | 103.3  | 101.6  | 100.3  | 98.7   | 95.7   | 92.8   |
| 82.5° | 100.3  | 100.3  | 97.0   | 96.6   | 92.8   | 89.9   | 82.4   | 78.6   |
| 85°   | 89.0   | 87.4   | 84.4   | 83.2   | 82.4   | 76.1   | 66.5   | 61.5   |
| 87.5° | 58.9   | 54.8   | 52.3   | 53.5   | 51.8   | 46.4   | 28.4   | 22.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)