

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: P156933

Luminaire Tested: **UTLD-F03-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P156933  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33664)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F03-LED-E-U-5MQ-8030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5884 lumens  
Efficiency: N/A  
Efficacy: 75.1 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: 28.75 FT

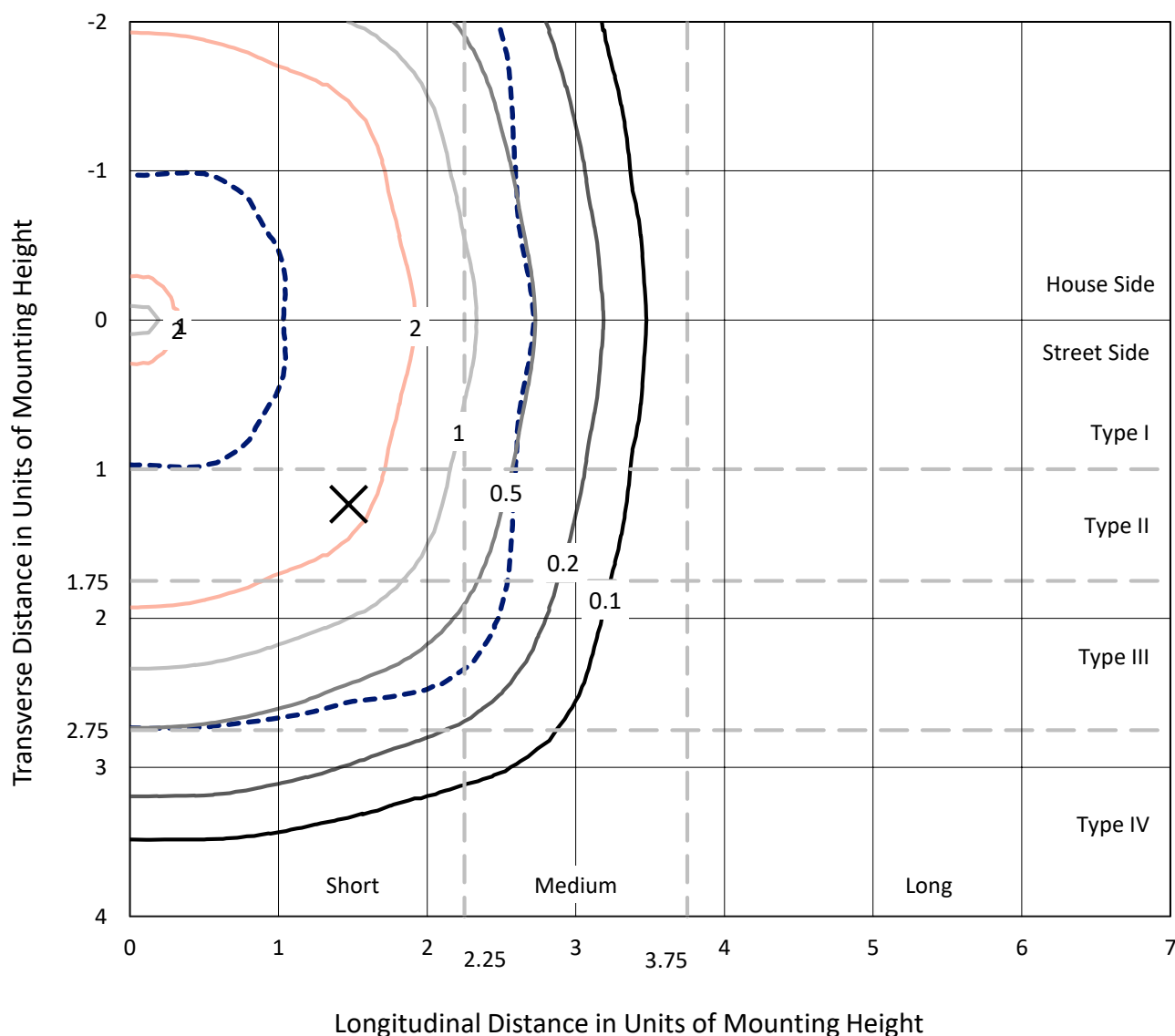


REPORT NUMBER: P156933

CATALOG NUMBER: UTLD-F03-LED-E-U-5MQ-8030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

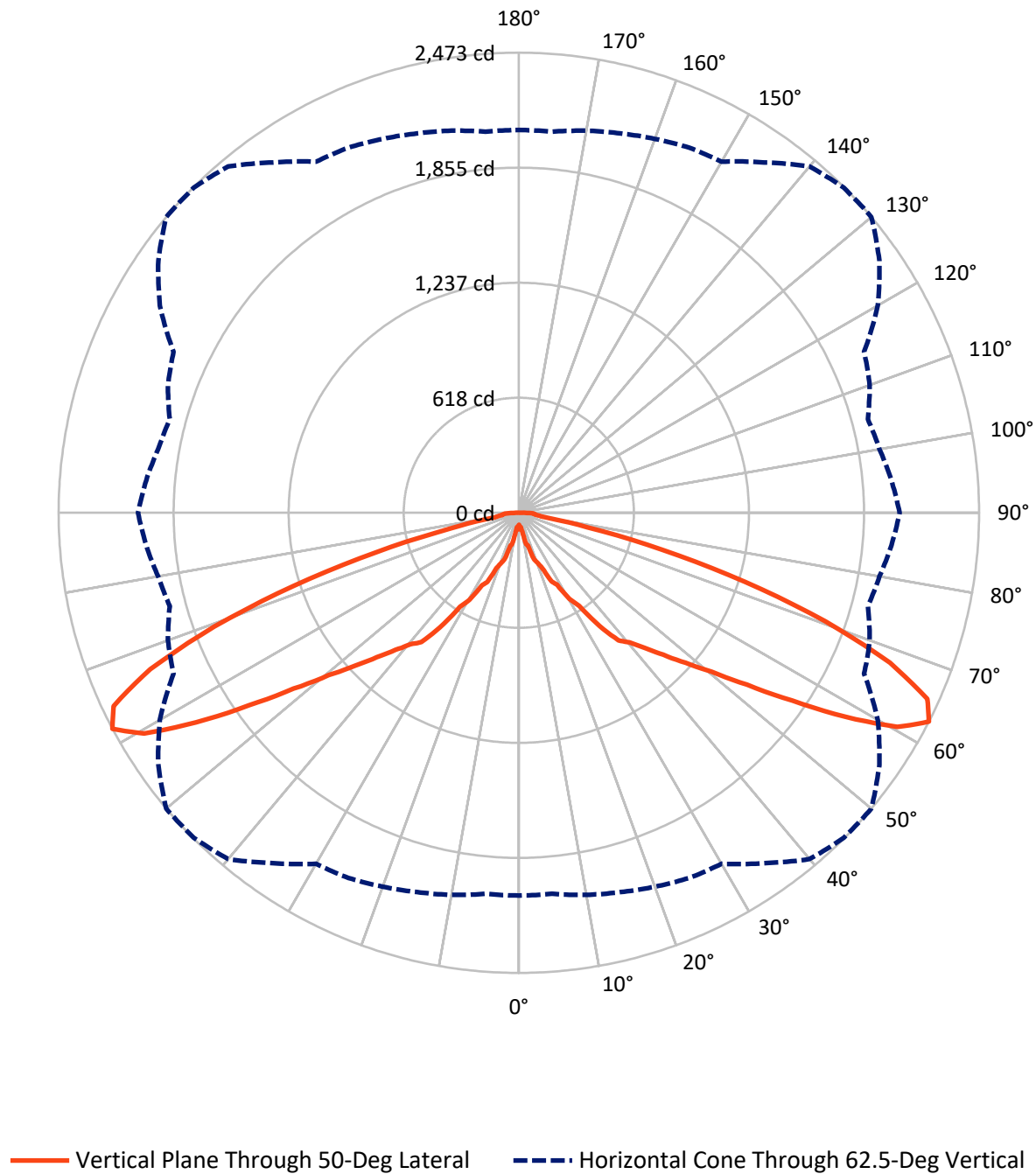


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P156933

CATALOG NUMBER: UTLD-F03-LED-E-U-5MQ-8030

## Luminous Intensity Polar Plot



REPORT NUMBER: P156933

CATALOG NUMBER: UTLD-F03-LED-E-U-5MQ-8030

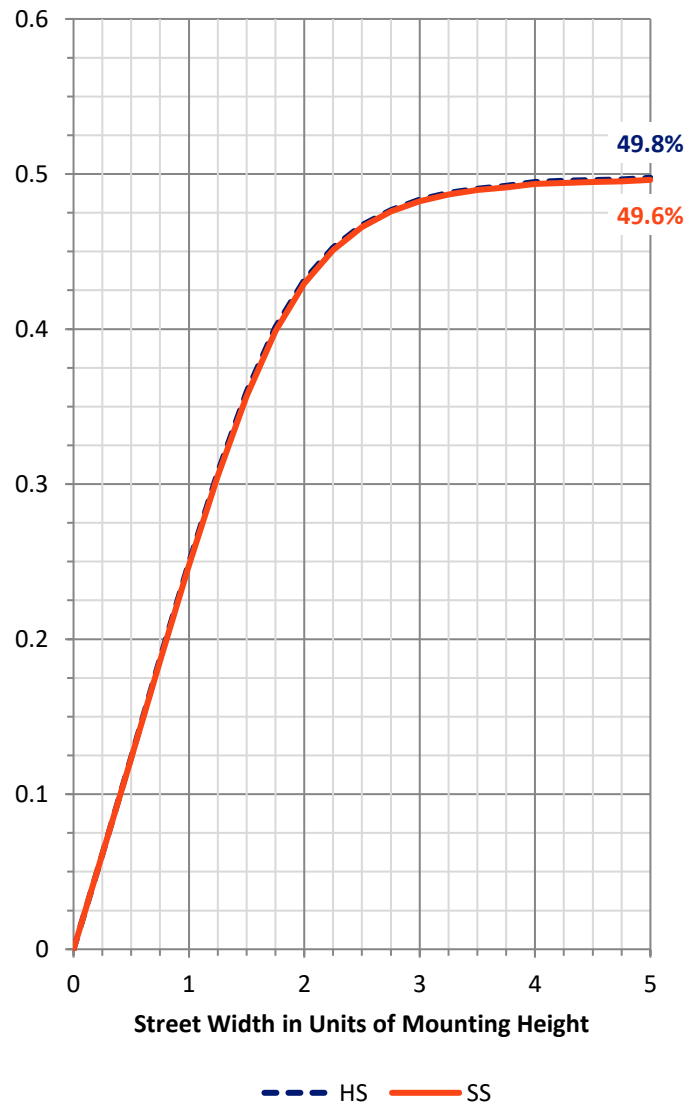
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2942.0   | 0.0    | 2942.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2942.0   | 0.0    | 2942.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5884.0   | 0.0    | 5884.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.0    | 0.2       |
| 10°-20°   | 56.7   | 1.0       |
| 20°-30°   | 188.6  | 3.2       |
| 30°-40°   | 482.8  | 8.2       |
| 40°-50°   | 894.6  | 15.2      |
| 50°-60°   | 1625.5 | 27.6      |
| 60°-70°   | 1916.0 | 32.6      |
| 70°-80°   | 628.5  | 10.7      |
| 80°-90°   | 82.4   | 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°    | 5884.0 | 100.0     |
| 0°-180°   | 5884.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P156933

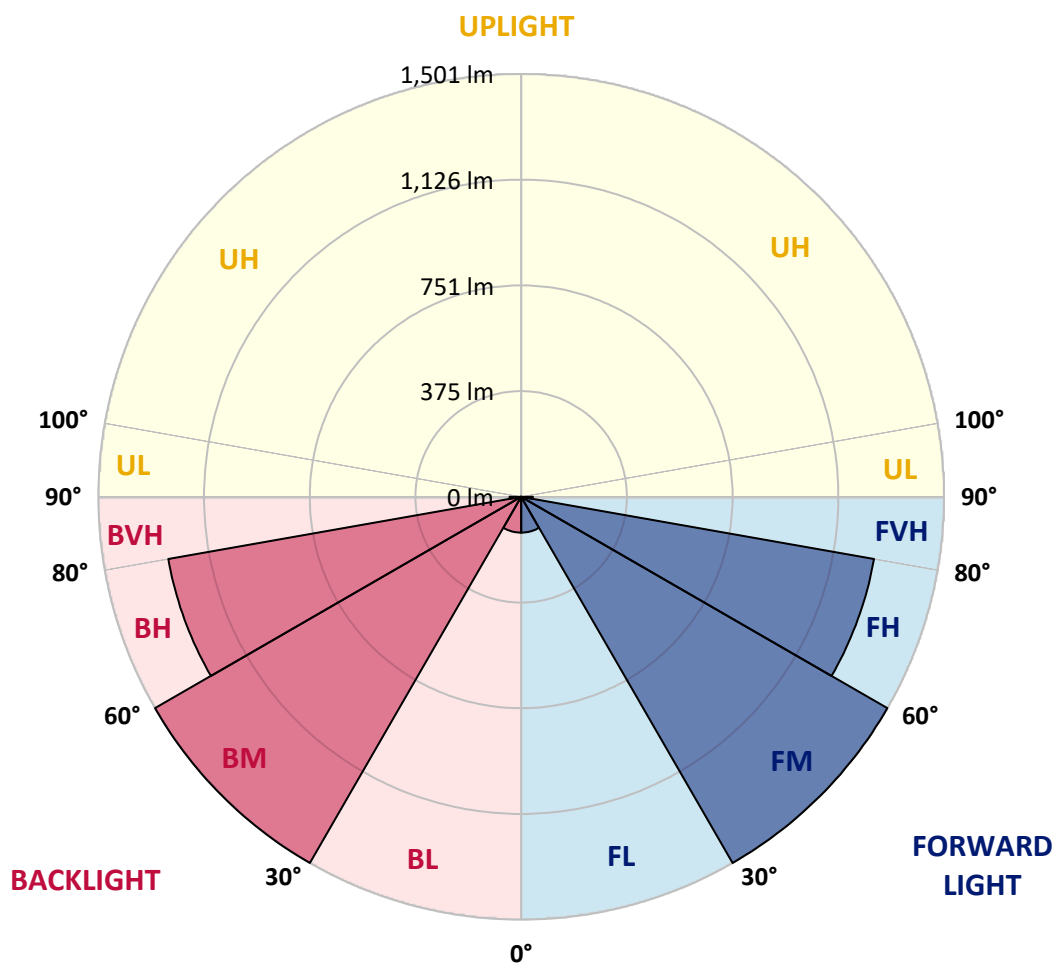
CATALOG NUMBER: UTLD-F03-LED-E-U-5MQ-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 127.1  | 2.2       |                         |      |         |
| FM   | (30°-60°)   | 1501.4 | 25.5      |                         |      |         |
| FH   | (60°-80°)   | 1272.2 | 21.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 41.2   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 127.1  | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1501.4 | 25.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1272.2 | 21.6      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 41.2   | 0.7       |                         |      | 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: P156933

CATALOG NUMBER: UTLD-F03-LED-E-U-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   |
| 2.5°  | 101.9  | 101.9  | 101.9  | 102.4  | 103.5  | 102.7  | 100.9  | 100.1  | 89.6   | 88.6   | 78.1   |
| 5°    | 74.8   | 75.0   | 75.5   | 75.2   | 75.5   | 77.6   | 76.3   | 77.6   | 75.8   | 78.4   | 90.9   |
| 7.5°  | 121.2  | 122.8  | 122.0  | 121.0  | 119.9  | 114.4  | 101.1  | 89.6   | 79.2   | 78.1   | 77.3   |
| 10°   | 130.1  | 130.6  | 130.1  | 129.6  | 129.3  | 129.3  | 128.8  | 124.9  | 123.6  | 120.7  | 103.2  |
| 12.5° | 185.5  | 186.8  | 185.8  | 184.5  | 184.0  | 161.7  | 150.0  | 136.4  | 132.2  | 168.5  | 172.4  |
| 15°   | 196.5  | 198.6  | 196.5  | 195.2  | 194.6  | 191.5  | 188.9  | 218.2  | 215.3  | 183.7  | 182.6  |
| 17.5° | 256.0  | 256.3  | 255.0  | 254.2  | 247.4  | 235.2  | 241.2  | 235.4  | 231.0  | 229.9  | 261.0  |
| 20°   | 293.2  | 288.5  | 279.6  | 266.2  | 258.7  | 288.5  | 291.8  | 283.2  | 262.8  | 276.2  | 286.9  |
| 22.5° | 334.4  | 334.9  | 333.1  | 324.5  | 323.5  | 341.2  | 313.0  | 319.3  | 331.8  | 313.3  | 320.8  |
| 25°   | 412.8  | 412.6  | 406.3  | 377.0  | 371.3  | 364.7  | 364.0  | 372.9  | 353.8  | 381.2  | 408.6  |
| 27.5° | 450.4  | 445.2  | 437.6  | 425.4  | 444.4  | 434.0  | 426.1  | 393.2  | 448.4  | 422.5  | 438.2  |
| 30°   | 551.2  | 548.1  | 533.8  | 525.9  | 521.0  | 485.7  | 472.6  | 503.0  | 489.6  | 494.9  | 537.2  |
| 32.5° | 717.0  | 717.5  | 693.9  | 652.9  | 597.8  | 594.7  | 576.1  | 559.1  | 576.9  | 569.0  | 596.2  |
| 35°   | 867.4  | 847.6  | 798.2  | 783.6  | 754.6  | 741.5  | 721.9  | 694.7  | 707.6  | 703.6  | 748.8  |
| 37.5° | 934.8  | 933.8  | 906.6  | 887.6  | 875.0  | 829.0  | 814.6  | 831.9  | 820.9  | 810.2  | 870.6  |
| 40°   | 1079.1 | 1076.7 | 1047.2 | 1018.7 | 989.4  | 921.0  | 898.8  | 884.2  | 872.6  | 875.0  | 915.5  |
| 42.5° | 1167.4 | 1170.0 | 1138.4 | 1113.0 | 1067.6 | 1015.8 | 979.8  | 972.2  | 952.6  | 952.1  | 992.1  |
| 45°   | 1266.6 | 1265.6 | 1242.4 | 1208.4 | 1161.9 | 1120.9 | 1071.8 | 1067.0 | 1049.8 | 1049.0 | 1088.2 |
| 47.5° | 1380.6 | 1376.9 | 1357.6 | 1327.0 | 1284.7 | 1228.0 | 1188.8 | 1179.1 | 1166.4 | 1159.0 | 1205.5 |
| 50°   | 1535.8 | 1535.0 | 1511.2 | 1473.6 | 1439.4 | 1384.0 | 1335.9 | 1312.4 | 1307.2 | 1297.8 | 1343.5 |
| 52.5° | 1740.6 | 1736.7 | 1725.2 | 1675.8 | 1645.0 | 1556.7 | 1506.8 | 1486.4 | 1494.8 | 1485.8 | 1535.0 |
| 55°   | 1962.7 | 1952.8 | 1947.8 | 1903.1 | 1879.6 | 1794.7 | 1736.7 | 1727.8 | 1737.2 | 1745.0 | 1782.7 |
| 57.5° | 2139.4 | 2133.6 | 2141.2 | 2112.7 | 2079.5 | 2025.7 | 1969.0 | 1994.8 | 2023.6 | 2035.1 | 2069.6 |
| 60°   | 2177.0 | 2180.6 | 2197.1 | 2199.2 | 2193.9 | 2183.2 | 2146.9 | 2208.3 | 2290.1 | 2317.5 | 2337.1 |
| 62.5° | 2057.3 | 2055.7 | 2085.2 | 2110.6 | 2138.5 | 2165.7 | 2178.5 | 2298.4 | 2429.6 | 2470.1 | 2473.0 |
| 65°   | 1845.6 | 1847.5 | 1883.5 | 1909.6 | 1944.2 | 1988.3 | 2063.8 | 2193.7 | 2372.6 | 2423.1 | 2412.6 |
| 67.5° | 1564.0 | 1576.8 | 1605.5 | 1649.2 | 1679.8 | 1731.0 | 1820.6 | 1948.6 | 2118.7 | 2165.4 | 2151.3 |
| 70°   | 1219.6 | 1234.5 | 1264.8 | 1292.3 | 1337.7 | 1402.6 | 1455.3 | 1595.6 | 1731.2 | 1769.9 | 1747.9 |
| 72.5° | 768.7  | 783.3  | 834.2  | 865.9  | 908.5  | 966.7  | 1019.8 | 1146.8 | 1271.6 | 1310.3 | 1270.4 |
| 75°   | 272.2  | 285.0  | 332.4  | 376.2  | 422.2  | 490.2  | 562.0  | 673.1  | 802.1  | 850.2  | 793.5  |
| 77.5° | 106.6  | 108.9  | 117.6  | 123.3  | 141.3  | 170.1  | 211.6  | 274.1  | 376.8  | 422.0  | 375.7  |
| 80°   | 93.6   | 98.0   | 103.2  | 106.6  | 106.8  | 105.0  | 103.2  | 108.4  | 131.2  | 146.6  | 127.7  |
| 82.5° | 81.0   | 85.9   | 95.9   | 102.2  | 102.9  | 100.3  | 97.4   | 93.8   | 90.6   | 86.8   | 93.3   |
| 85°   | 59.6   | 72.1   | 85.9   | 94.3   | 95.9   | 93.8   | 92.8   | 88.9   | 82.3   | 74.5   | 84.4   |
| 87.5° | 24.0   | 36.8   | 67.4   | 80.0   | 79.4   | 72.6   | 74.8   | 76.0   | 67.4   | 49.4   | 71.6   |
| 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: P156933

CATALOG NUMBER: UTLD-F03-LED-E-U-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   | 63.8   |
| 2.5°  | 78.9   | 71.3   | 68.5   | 65.1   | 64.3   | 63.5   | 63.5   | 63.2   |
| 5°    | 98.0   | 102.2  | 99.6   | 85.7   | 69.5   | 68.2   | 65.0   | 64.8   |
| 7.5°  | 77.6   | 77.3   | 88.8   | 98.2   | 91.4   | 68.7   | 67.9   | 67.4   |
| 10°   | 86.5   | 111.0  | 112.9  | 116.5  | 144.5  | 122.0  | 103.5  | 100.8  |
| 12.5° | 168.5  | 138.7  | 121.2  | 124.9  | 133.2  | 144.5  | 110.5  | 106.1  |
| 15°   | 178.2  | 178.4  | 195.2  | 175.3  | 172.2  | 192.6  | 157.6  | 163.0  |
| 17.5° | 227.3  | 225.5  | 224.7  | 189.5  | 185.5  | 184.5  | 189.2  | 177.6  |
| 20°   | 261.3  | 248.8  | 298.4  | 311.2  | 284.3  | 274.8  | 280.1  | 277.5  |
| 22.5° | 350.1  | 358.7  | 333.6  | 331.6  | 325.8  | 358.2  | 367.3  | 353.7  |
| 25°   | 368.2  | 407.1  | 446.5  | 447.3  | 429.8  | 416.5  | 437.1  | 419.6  |
| 27.5° | 483.9  | 474.5  | 487.8  | 477.9  | 527.3  | 514.2  | 513.2  | 495.4  |
| 30°   | 524.9  | 544.5  | 573.0  | 569.8  | 586.8  | 578.7  | 570.1  | 599.9  |
| 32.5° | 622.9  | 623.7  | 648.5  | 710.2  | 734.7  | 754.0  | 738.9  | 747.2  |
| 35°   | 761.4  | 802.4  | 814.4  | 810.5  | 816.0  | 841.1  | 821.7  | 821.4  |
| 37.5° | 874.8  | 874.5  | 868.0  | 858.6  | 871.6  | 890.4  | 894.1  | 877.4  |
| 40°   | 929.1  | 928.6  | 932.2  | 938.2  | 958.6  | 970.4  | 990.8  | 963.0  |
| 42.5° | 1005.1 | 1001.2 | 1015.3 | 1030.5 | 1048.0 | 1059.5 | 1090.3 | 1060.2 |
| 45°   | 1104.2 | 1102.0 | 1113.8 | 1125.3 | 1140.0 | 1145.7 | 1187.0 | 1188.3 |
| 47.5° | 1217.6 | 1223.0 | 1208.2 | 1220.7 | 1236.4 | 1249.2 | 1300.1 | 1307.4 |
| 50°   | 1354.2 | 1367.2 | 1331.7 | 1342.4 | 1362.3 | 1391.0 | 1430.8 | 1459.0 |
| 52.5° | 1545.7 | 1537.1 | 1509.9 | 1501.8 | 1541.6 | 1592.8 | 1631.9 | 1678.0 |
| 55°   | 1793.6 | 1763.6 | 1733.3 | 1718.4 | 1762.3 | 1830.8 | 1870.8 | 1930.4 |
| 57.5° | 2063.8 | 2012.1 | 1931.8 | 1943.4 | 1965.1 | 2021.8 | 2043.2 | 2136.8 |
| 60°   | 2280.2 | 2194.2 | 2069.3 | 2040.3 | 2032.5 | 2062.8 | 2121.6 | 2168.6 |
| 62.5° | 2364.6 | 2227.4 | 2047.1 | 2006.4 | 1941.6 | 1967.9 | 2009.5 | 2046.3 |
| 65°   | 2270.7 | 2093.9 | 1913.8 | 1841.0 | 1766.5 | 1791.8 | 1813.8 | 1836.8 |
| 67.5° | 2016.3 | 1843.6 | 1677.4 | 1578.1 | 1511.0 | 1513.3 | 1542.9 | 1541.0 |
| 70°   | 1641.8 | 1474.9 | 1335.1 | 1253.4 | 1186.2 | 1174.2 | 1190.9 | 1205.0 |
| 72.5° | 1154.1 | 1018.7 | 916.0  | 837.9  | 765.6  | 759.3  | 740.7  | 759.3  |
| 75°   | 663.6  | 534.0  | 451.5  | 369.7  | 295.8  | 280.6  | 255.0  | 259.2  |
| 77.5° | 272.2  | 190.5  | 147.4  | 119.2  | 109.8  | 107.1  | 108.7  | 107.6  |
| 80°   | 110.2  | 101.1  | 99.0   | 98.7   | 100.6  | 101.9  | 102.4  | 97.7   |
| 82.5° | 98.5   | 98.2   | 96.6   | 95.9   | 96.4   | 96.9   | 90.7   | 86.8   |
| 85°   | 92.2   | 91.9   | 90.1   | 88.8   | 89.1   | 86.2   | 77.0   | 68.4   |
| 87.5° | 82.0   | 77.3   | 73.9   | 78.4   | 80.0   | 73.4   | 49.1   | 39.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)