

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: P157127

Luminaire Tested: **UTLD-F01-LED-E-U-T2-7060**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P157127  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33661)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F01-LED-E-U-T2-7060  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (7) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2268.3 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9  
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



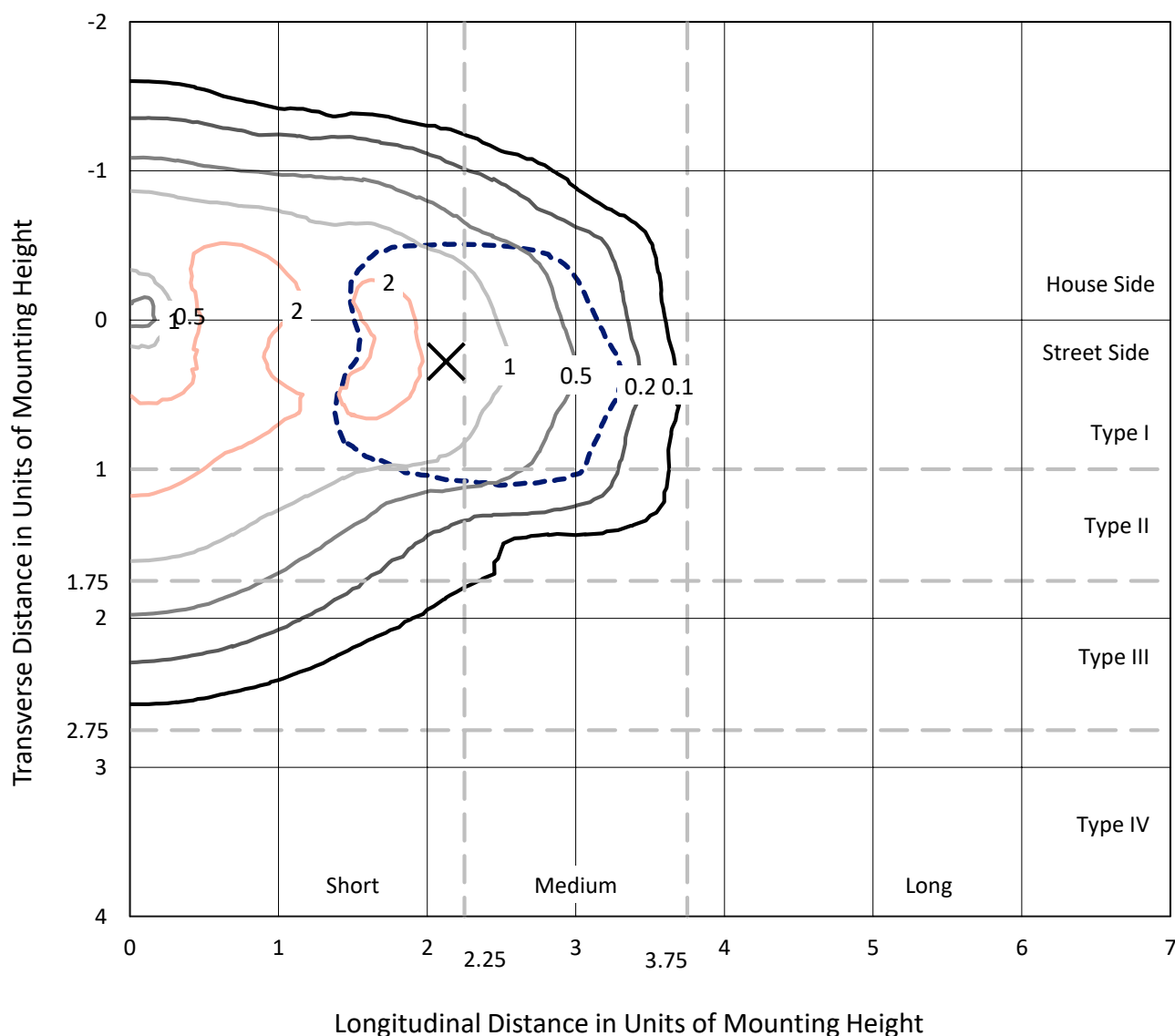
REPORT NUMBER: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

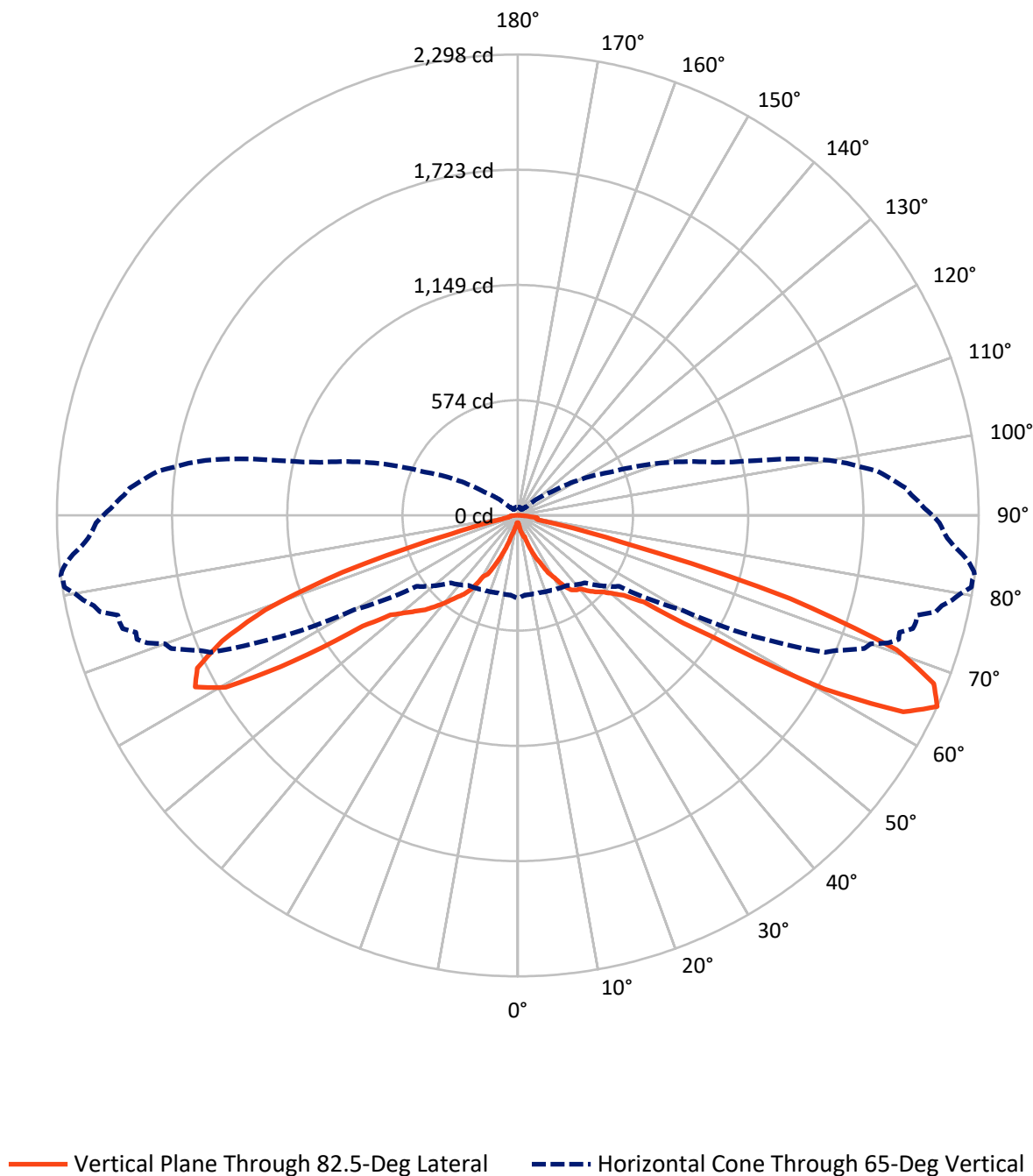


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

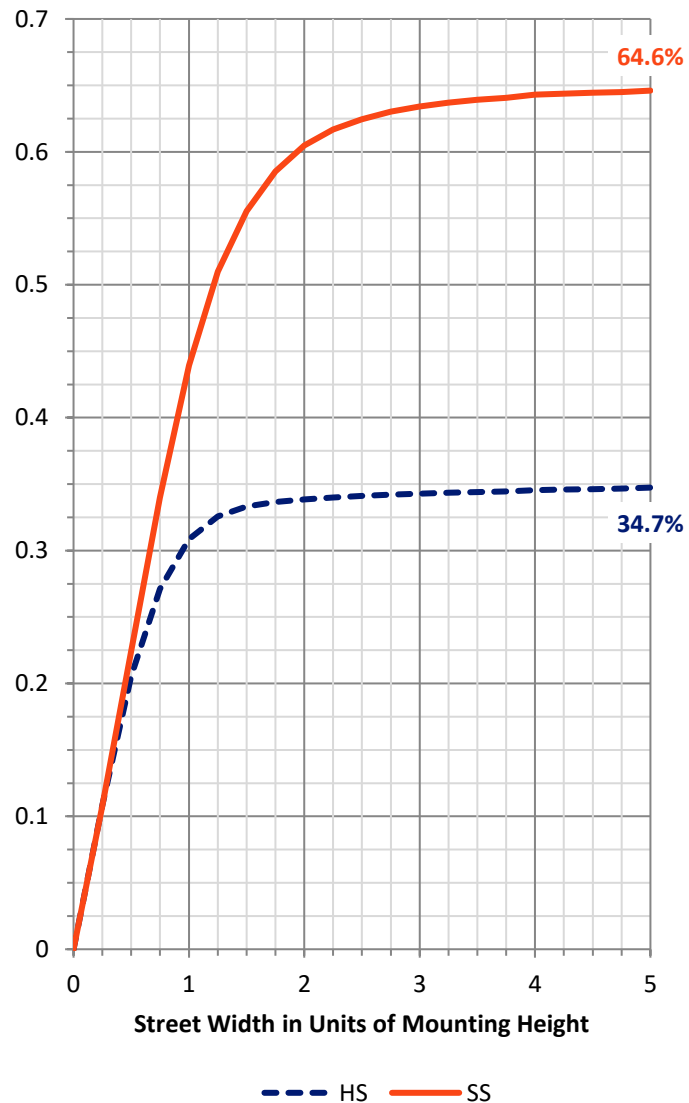
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 799.4    | 0.0    | 799.4  |
|                    | % Fixture | 35.2     | 0.0    | 35.2   |
| <b>Street Side</b> | Lumens    | 1468.9   | 0.0    | 1468.9 |
|                    | % Fixture | 64.8     | 0.0    | 64.8   |
| <b>Total</b>       | Lumens    | 2268.3   | 0.0    | 2268.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.2    | 0.2       |
| 10°-20°   | 33.5   | 1.5       |
| 20°-30°   | 112.1  | 4.9       |
| 30°-40°   | 247.4  | 10.9      |
| 40°-50°   | 391.0  | 17.2      |
| 50°-60°   | 554.7  | 24.5      |
| 60°-70°   | 659.9  | 29.1      |
| 70°-80°   | 223.2  | 9.8       |
| 80°-90°   | 41.4   | 1.8       |
| 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°    | 2268.3 | 100.0     |
| 0°-180°   | 2268.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P157127

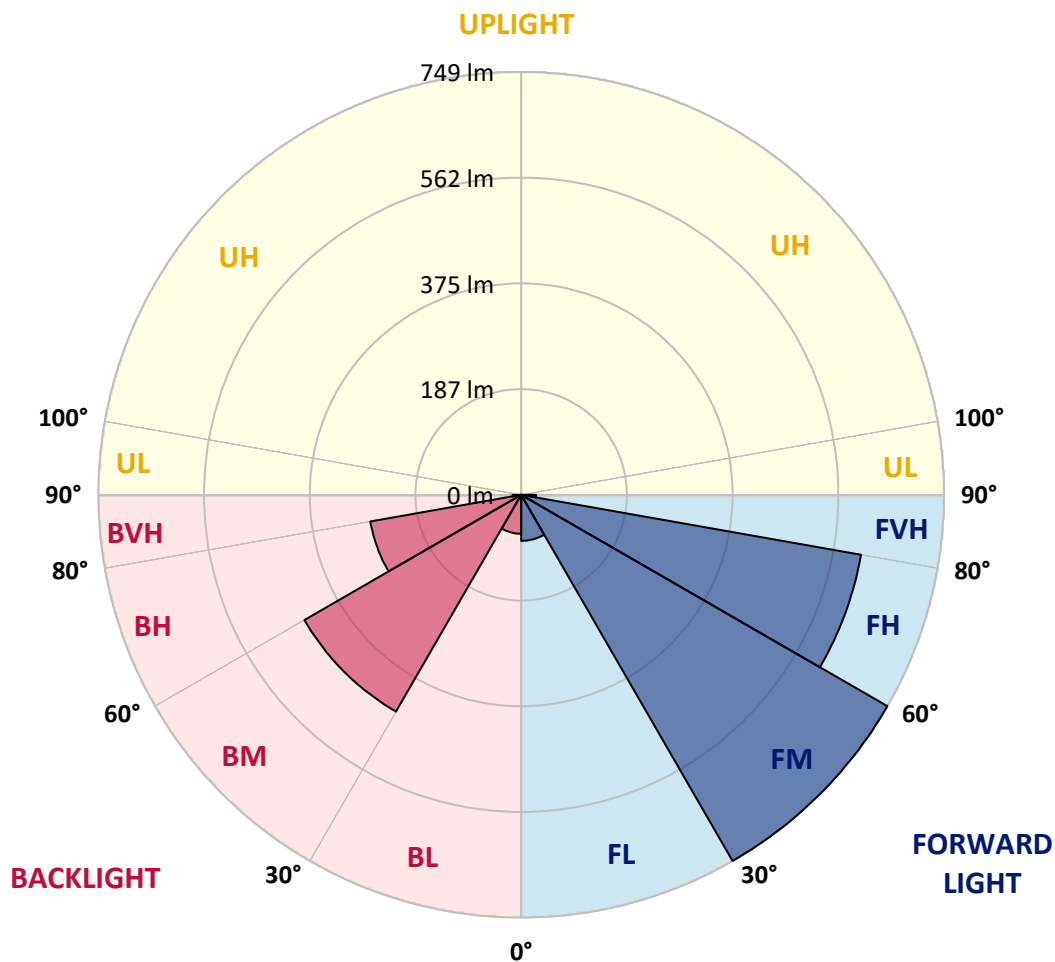
CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 81.6   | 3.6       |                         |      |        |
| FM   | (30°-60°)   | 749.5  | 33.0      |                         |      |        |
| FH   | (60°-80°)   | 611.6  | 27.0      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 26.2   | 1.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 69.1   | 3.0       | B0/110                  |      |        |
| BM   | (30°-60°)   | 443.6  | 19.6      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 271.5  | 12.0      | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 15.1   | 0.7       |                         |      | 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 II Short





REPORT NUMBER: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°    | 36.4  | 36.4  | 36.4  | 36.4  | 36.4  | 36.4  | 36.4  | 36.4   | 36.4   | 36.4   | 36.4   |
| 2.5°  | 51.7  | 51.7  | 51.7  | 54.2  | 60.6  | 60.6  | 60.1  | 60.6   | 59.7   | 58.9   | 57.6   |
| 5°    | 53.8  | 55.1  | 54.2  | 53.8  | 52.9  | 52.5  | 52.1  | 51.7   | 51.7   | 52.5   | 54.6   |
| 7.5°  | 82.2  | 82.6  | 82.2  | 83.0  | 80.5  | 58.0  | 54.2  | 53.8   | 55.1   | 55.5   | 54.6   |
| 10°   | 97.8  | 91.5  | 89.4  | 87.7  | 85.6  | 81.7  | 81.3  | 79.2   | 78.4   | 77.9   | 75.8   |
| 12.5° | 124.9 | 124.9 | 124.1 | 118.6 | 113.1 | 110.1 | 112.7 | 106.7  | 105.9  | 103.3  | 95.7   |
| 15°   | 164.8 | 164.3 | 136.4 | 130.0 | 146.1 | 138.9 | 117.3 | 124.1  | 130.9  | 130.0  | 130.4  |
| 17.5° | 176.2 | 176.2 | 174.1 | 167.3 | 157.6 | 147.8 | 158.8 | 138.9  | 138.5  | 138.9  | 141.0  |
| 20°   | 218.5 | 218.5 | 210.1 | 195.3 | 186.4 | 176.6 | 170.3 | 185.9  | 180.9  | 177.0  | 174.1  |
| 22.5° | 220.2 | 220.2 | 214.3 | 225.7 | 210.1 | 200.8 | 217.7 | 221.1  | 225.3  | 225.7  | 221.1  |
| 25°   | 254.5 | 255.0 | 249.0 | 232.1 | 234.6 | 230.0 | 239.3 | 262.2  | 262.2  | 258.4  | 269.4  |
| 27.5° | 290.5 | 291.0 | 254.1 | 261.3 | 252.9 | 269.8 | 294.8 | 306.2  | 297.7  | 300.7  | 301.6  |
| 30°   | 307.5 | 307.9 | 305.8 | 303.3 | 293.1 | 299.9 | 312.6 | 323.2  | 328.7  | 349.0  | 342.6  |
| 32.5° | 379.5 | 379.9 | 366.4 | 335.0 | 340.9 | 353.7 | 359.2 | 361.7  | 368.1  | 371.4  | 371.4  |
| 35°   | 465.0 | 463.8 | 439.2 | 411.7 | 393.9 | 391.3 | 398.1 | 419.7  | 430.7  | 420.1  | 424.8  |
| 37.5° | 533.7 | 527.7 | 500.2 | 482.4 | 463.4 | 458.3 | 463.8 | 460.8  | 461.7  | 448.1  | 448.1  |
| 40°   | 581.1 | 581.5 | 566.3 | 551.0 | 522.2 | 531.1 | 515.9 | 511.6  | 500.2  | 497.7  | 486.6  |
| 42.5° | 631.1 | 633.2 | 613.7 | 594.6 | 567.5 | 591.7 | 578.1 | 571.8  | 546.4  | 553.6  | 539.6  |
| 45°   | 683.2 | 684.9 | 662.4 | 636.2 | 612.4 | 649.3 | 646.3 | 635.7  | 622.6  | 623.9  | 609.0  |
| 47.5° | 721.7 | 725.1 | 699.7 | 668.8 | 652.7 | 696.3 | 711.1 | 710.3  | 708.6  | 696.7  | 690.8  |
| 50°   | 744.2 | 746.3 | 718.3 | 695.4 | 675.5 | 731.4 | 778.0 | 785.7  | 799.2  | 775.9  | 791.6  |
| 52.5° | 751.4 | 752.6 | 724.7 | 699.7 | 680.6 | 750.9 | 828.9 | 870.8  | 880.5  | 876.3  | 900.9  |
| 55°   | 731.4 | 733.1 | 712.4 | 689.9 | 673.0 | 753.9 | 869.5 | 951.3  | 957.2  | 969.5  | 1018.6 |
| 57.5° | 698.8 | 698.0 | 693.8 | 670.0 | 668.3 | 751.4 | 903.4 | 1053.8 | 1057.2 | 1116.9 | 1205.0 |
| 60°   | 656.9 | 658.6 | 656.5 | 644.2 | 651.8 | 724.2 | 896.2 | 1111.4 | 1150.8 | 1242.7 | 1382.0 |
| 62.5° | 591.3 | 594.2 | 585.3 | 568.4 | 574.3 | 630.6 | 811.5 | 1084.7 | 1176.6 | 1296.0 | 1465.4 |
| 65°   | 413.4 | 398.5 | 399.4 | 409.6 | 426.9 | 475.2 | 616.7 | 939.4  | 1084.3 | 1223.6 | 1446.8 |
| 67.5° | 238.0 | 242.3 | 241.8 | 252.0 | 273.2 | 311.3 | 394.3 | 629.0  | 759.8  | 921.6  | 1202.0 |
| 70°   | 183.0 | 183.0 | 188.9 | 202.5 | 215.6 | 259.6 | 283.3 | 340.5  | 400.7  | 509.5  | 769.6  |
| 72.5° | 137.6 | 137.2 | 142.7 | 155.4 | 181.7 | 237.6 | 331.6 | 235.5  | 243.5  | 264.7  | 416.3  |
| 75°   | 80.0  | 77.9  | 80.0  | 88.9  | 111.0 | 177.5 | 335.4 | 262.2  | 250.3  | 235.1  | 261.7  |
| 77.5° | 41.5  | 41.5  | 43.6  | 45.7  | 56.8  | 91.1  | 241.8 | 320.2  | 310.0  | 284.2  | 266.8  |
| 80°   | 23.7  | 24.6  | 26.3  | 26.3  | 27.5  | 37.7  | 105.0 | 313.4  | 346.0  | 354.1  | 347.3  |
| 82.5° | 11.9  | 13.6  | 18.6  | 18.6  | 18.2  | 19.1  | 39.4  | 183.8  | 250.3  | 310.5  | 418.5  |
| 85°   | 6.8   | 7.2   | 12.3  | 13.6  | 13.1  | 11.4  | 18.2  | 82.2   | 110.1  | 160.1  | 239.3  |
| 87.5° | 2.5   | 3.8   | 5.9   | 6.8   | 7.6   | 5.9   | 10.6  | 23.3   | 31.3   | 43.2   | 52.9   |
| 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: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   |
| 2.5°  | 57.6   | 55.5   | 56.3   | 54.2   | 50.4   | 48.7   | 48.3   | 47.9   | 47.4   | 44.9   | 44.9   |
| 5°    | 56.3   | 56.8   | 58.0   | 58.4   | 58.4   | 58.9   | 59.7   | 59.3   | 59.7   | 58.9   | 58.4   |
| 7.5°  | 53.8   | 52.5   | 51.2   | 50.4   | 50.4   | 50.4   | 50.4   | 50.8   | 52.5   | 55.1   | 56.3   |
| 10°   | 75.4   | 75.4   | 75.8   | 75.0   | 76.2   | 75.8   | 75.8   | 75.4   | 75.4   | 75.8   | 75.8   |
| 12.5° | 83.9   | 81.3   | 80.9   | 80.0   | 80.5   | 80.0   | 80.5   | 82.6   | 82.2   | 82.6   | 81.7   |
| 15°   | 133.0  | 132.6  | 132.1  | 130.0  | 123.2  | 117.3  | 116.0  | 115.2  | 110.5  | 108.8  | 108.0  |
| 17.5° | 140.6  | 138.5  | 140.6  | 139.8  | 137.6  | 135.5  | 133.8  | 130.4  | 120.7  | 120.7  | 119.4  |
| 20°   | 177.0  | 182.1  | 183.8  | 193.1  | 191.9  | 195.3  | 195.3  | 194.0  | 194.4  | 193.1  | 188.1  |
| 22.5° | 215.2  | 210.1  | 207.1  | 211.8  | 212.6  | 210.5  | 215.2  | 214.3  | 224.9  | 219.8  | 234.2  |
| 25°   | 270.6  | 281.7  | 288.4  | 282.1  | 279.1  | 280.4  | 284.2  | 279.5  | 282.1  | 280.4  | 281.2  |
| 27.5° | 302.0  | 307.5  | 303.7  | 303.3  | 304.9  | 306.2  | 300.7  | 300.7  | 300.3  | 310.9  | 321.0  |
| 30°   | 351.5  | 346.9  | 346.9  | 349.4  | 353.2  | 353.2  | 348.6  | 347.3  | 352.0  | 347.7  | 352.8  |
| 32.5° | 370.2  | 367.6  | 376.5  | 405.7  | 407.0  | 401.1  | 401.5  | 407.0  | 407.4  | 413.4  | 414.2  |
| 35°   | 419.7  | 426.9  | 432.0  | 433.3  | 428.2  | 427.8  | 433.3  | 436.2  | 442.2  | 442.6  | 447.7  |
| 37.5° | 453.2  | 456.2  | 456.6  | 454.9  | 447.3  | 452.3  | 455.3  | 459.1  | 459.1  | 463.4  | 461.2  |
| 40°   | 490.5  | 491.7  | 491.3  | 477.8  | 475.6  | 481.6  | 483.3  | 482.0  | 481.6  | 482.4  | 480.7  |
| 42.5° | 539.2  | 536.6  | 523.9  | 513.8  | 515.9  | 515.9  | 513.3  | 507.4  | 510.4  | 504.0  | 501.0  |
| 45°   | 602.7  | 596.3  | 576.0  | 567.1  | 567.5  | 559.5  | 549.8  | 548.5  | 540.4  | 532.8  | 540.0  |
| 47.5° | 688.7  | 668.8  | 648.9  | 640.8  | 632.3  | 619.6  | 603.1  | 596.8  | 584.5  | 577.7  | 578.6  |
| 50°   | 791.6  | 761.9  | 748.8  | 750.5  | 733.6  | 709.8  | 696.3  | 676.8  | 654.4  | 652.2  | 642.9  |
| 52.5° | 892.8  | 876.7  | 880.5  | 879.3  | 858.5  | 836.5  | 824.6  | 809.4  | 784.8  | 773.8  | 747.5  |
| 55°   | 997.4  | 1005.5 | 1027.9 | 1027.1 | 1016.9 | 1013.9 | 1008.0 | 994.9  | 998.7  | 970.7  | 938.1  |
| 57.5° | 1197.3 | 1237.6 | 1291.4 | 1312.1 | 1310.0 | 1318.5 | 1339.2 | 1361.7 | 1379.0 | 1357.0 | 1360.4 |
| 60°   | 1436.6 | 1521.3 | 1601.4 | 1637.0 | 1697.1 | 1725.1 | 1771.7 | 1832.2 | 1873.3 | 1842.8 | 1895.3 |
| 62.5° | 1558.6 | 1680.2 | 1741.2 | 1782.7 | 1862.3 | 1902.1 | 1963.1 | 2031.7 | 2048.7 | 2071.9 | 2130.4 |
| 65°   | 1571.3 | 1678.1 | 1722.1 | 1786.9 | 1850.4 | 1872.0 | 1952.9 | 1997.0 | 1990.6 | 2048.7 | 2055.0 |
| 67.5° | 1380.7 | 1471.8 | 1541.7 | 1637.0 | 1685.3 | 1735.2 | 1802.2 | 1810.6 | 1837.3 | 1884.3 | 1851.3 |
| 70°   | 980.9  | 1128.3 | 1222.8 | 1332.9 | 1409.1 | 1489.6 | 1553.1 | 1558.6 | 1601.8 | 1616.6 | 1599.7 |
| 72.5° | 530.7  | 674.7  | 788.2  | 923.7  | 1013.1 | 1105.0 | 1162.6 | 1196.1 | 1213.0 | 1190.6 | 1232.9 |
| 75°   | 299.0  | 357.9  | 431.2  | 501.5  | 572.2  | 607.4  | 634.0  | 646.7  | 618.8  | 610.3  | 609.5  |
| 77.5° | 252.9  | 249.9  | 255.8  | 243.1  | 246.5  | 237.6  | 239.3  | 217.7  | 202.9  | 213.5  | 212.6  |
| 80°   | 310.5  | 282.5  | 249.9  | 205.8  | 176.2  | 149.9  | 135.1  | 130.9  | 136.4  | 150.8  | 160.9  |
| 82.5° | 412.5  | 407.4  | 353.7  | 297.3  | 249.9  | 199.9  | 161.8  | 139.8  | 142.3  | 152.1  | 170.7  |
| 85°   | 283.3  | 295.6  | 262.2  | 245.7  | 202.0  | 169.4  | 139.8  | 112.2  | 102.9  | 98.3   | 93.6   |
| 87.5° | 57.2   | 50.0   | 44.9   | 42.4   | 36.8   | 32.6   | 29.2   | 26.7   | 27.1   | 25.4   | 25.0   |
| 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: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 82.5°  | 83°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   |
| 2.5°  | 42.4   | 40.2   | 40.7   | 39.4   | 38.5   | 38.1   | 39.4   | 39.4   | 39.0   | 38.5   | 36.8   |
| 5°    | 57.6   | 57.2   | 55.5   | 53.4   | 50.8   | 46.2   | 43.6   | 41.5   | 40.2   | 39.8   | 39.0   |
| 7.5°  | 57.2   | 56.8   | 56.3   | 56.3   | 56.3   | 55.9   | 55.9   | 54.6   | 53.4   | 49.6   | 41.1   |
| 10°   | 75.8   | 77.9   | 82.6   | 85.1   | 85.1   | 84.7   | 82.2   | 81.7   | 81.3   | 80.9   | 77.5   |
| 12.5° | 81.7   | 79.6   | 79.6   | 80.0   | 83.0   | 86.0   | 87.7   | 86.8   | 86.8   | 86.8   | 85.6   |
| 15°   | 107.6  | 107.6  | 107.2  | 107.2  | 107.2  | 108.0  | 107.6  | 110.1  | 111.8  | 111.0  | 111.4  |
| 17.5° | 119.4  | 121.1  | 120.3  | 120.3  | 117.7  | 113.1  | 122.0  | 111.4  | 111.0  | 124.9  | 136.8  |
| 20°   | 180.9  | 180.4  | 177.9  | 177.0  | 175.3  | 174.5  | 175.8  | 176.2  | 176.6  | 176.2  | 178.7  |
| 22.5° | 232.9  | 225.7  | 220.2  | 219.0  | 224.5  | 226.6  | 224.1  | 224.5  | 222.8  | 223.2  | 219.4  |
| 25°   | 283.3  | 277.0  | 283.3  | 276.6  | 271.9  | 267.3  | 266.8  | 264.3  | 267.7  | 269.4  | 274.5  |
| 27.5° | 328.2  | 331.6  | 331.2  | 335.0  | 329.1  | 324.0  | 324.4  | 322.3  | 326.1  | 330.4  | 325.7  |
| 30°   | 353.7  | 356.6  | 354.9  | 350.3  | 352.4  | 353.7  | 361.7  | 360.4  | 358.7  | 349.4  | 345.2  |
| 32.5° | 417.6  | 416.3  | 412.9  | 415.9  | 425.7  | 430.7  | 418.0  | 415.1  | 415.5  | 421.0  | 417.6  |
| 35°   | 445.1  | 445.1  | 446.0  | 459.1  | 462.5  | 453.2  | 452.8  | 455.3  | 460.8  | 450.6  | 444.7  |
| 37.5° | 459.1  | 462.1  | 473.5  | 476.9  | 466.7  | 466.7  | 474.4  | 472.2  | 467.6  | 466.3  | 471.8  |
| 40°   | 479.9  | 492.2  | 496.0  | 485.8  | 486.2  | 493.4  | 485.8  | 480.3  | 484.1  | 496.8  | 497.2  |
| 42.5° | 512.5  | 517.6  | 507.0  | 505.3  | 515.4  | 506.6  | 506.6  | 514.2  | 518.8  | 518.0  | 522.6  |
| 45°   | 544.2  | 534.9  | 528.6  | 537.9  | 531.5  | 524.3  | 541.3  | 543.0  | 543.0  | 547.6  | 554.4  |
| 47.5° | 574.3  | 559.1  | 565.4  | 561.6  | 547.6  | 567.1  | 570.9  | 570.5  | 573.0  | 581.1  | 579.0  |
| 50°   | 618.8  | 608.2  | 606.1  | 586.6  | 598.5  | 606.1  | 605.7  | 610.7  | 615.4  | 612.9  | 631.5  |
| 52.5° | 709.8  | 706.0  | 670.5  | 658.6  | 664.5  | 657.8  | 664.5  | 661.1  | 660.7  | 676.4  | 677.7  |
| 55°   | 907.2  | 885.6  | 823.4  | 820.8  | 788.6  | 761.9  | 770.8  | 762.4  | 766.2  | 776.3  | 783.5  |
| 57.5° | 1359.1 | 1295.2 | 1277.8 | 1268.9 | 1205.8 | 1133.8 | 1126.2 | 1136.4 | 1135.1 | 1119.0 | 1145.7 |
| 60°   | 1896.2 | 1851.3 | 1899.1 | 1864.4 | 1815.3 | 1791.6 | 1756.8 | 1755.6 | 1740.7 | 1728.5 | 1700.5 |
| 62.5° | 2092.7 | 2149.5 | 2194.3 | 2196.0 | 2207.1 | 2194.8 | 2177.4 | 2156.7 | 2159.6 | 2125.3 | 2114.3 |
| 65°   | 2054.6 | 2138.4 | 2161.7 | 2207.5 | 2241.8 | 2289.2 | 2290.1 | 2297.7 | 2290.9 | 2263.8 | 2225.7 |
| 67.5° | 1927.5 | 1967.8 | 1993.6 | 2047.8 | 2116.0 | 2178.7 | 2229.9 | 2237.6 | 2242.2 | 2226.5 | 2170.2 |
| 70°   | 1673.8 | 1690.8 | 1727.2 | 1781.8 | 1864.4 | 1926.7 | 1996.6 | 2003.8 | 2018.6 | 2002.1 | 1962.7 |
| 72.5° | 1239.3 | 1234.2 | 1253.2 | 1290.9 | 1329.9 | 1373.1 | 1417.6 | 1420.5 | 1453.2 | 1420.5 | 1375.2 |
| 75°   | 576.0  | 561.2  | 548.9  | 546.8  | 551.4  | 564.2  | 562.9  | 545.9  | 541.3  | 502.7  | 475.2  |
| 77.5° | 197.4  | 192.3  | 182.1  | 166.5  | 148.7  | 127.1  | 111.4  | 103.8  | 96.6   | 86.0   | 82.2   |
| 80°   | 174.1  | 185.5  | 184.2  | 172.0  | 151.2  | 126.6  | 103.3  | 91.9   | 82.2   | 66.1   | 59.7   |
| 82.5° | 200.8  | 226.2  | 245.2  | 232.1  | 199.5  | 162.2  | 117.7  | 98.3   | 80.5   | 54.6   | 44.5   |
| 85°   | 96.1   | 94.9   | 104.2  | 88.5   | 83.9   | 61.4   | 46.2   | 39.0   | 35.6   | 29.2   | 27.1   |
| 87.5° | 25.4   | 25.8   | 26.7   | 26.7   | 25.8   | 24.1   | 23.7   | 22.9   | 22.4   | 20.8   | 19.5   |
| 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: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 86°    | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   |
| 2.5°  | 36.8   | 36.4   | 36.4   | 36.0   | 36.0   | 36.0   | 36.0   | 36.0   | 35.6   | 35.6   | 35.6   |
| 5°    | 39.4   | 39.4   | 39.0   | 37.7   | 36.8   | 36.8   | 36.4   | 36.4   | 36.0   | 36.0   | 36.0   |
| 7.5°  | 37.7   | 37.3   | 36.8   | 37.3   | 38.1   | 38.5   | 38.5   | 38.1   | 37.7   | 38.1   | 38.1   |
| 10°   | 65.6   | 61.0   | 59.7   | 59.3   | 58.4   | 58.4   | 58.0   | 57.2   | 55.9   | 55.5   | 55.5   |
| 12.5° | 83.4   | 67.8   | 65.6   | 65.2   | 64.4   | 64.0   | 63.5   | 61.4   | 60.6   | 61.4   | 61.8   |
| 15°   | 111.0  | 105.0  | 92.3   | 92.8   | 93.2   | 92.8   | 92.8   | 91.9   | 90.6   | 89.4   | 89.4   |
| 17.5° | 128.3  | 133.0  | 117.7  | 122.4  | 119.0  | 122.8  | 120.7  | 119.0  | 121.6  | 111.8  | 114.8  |
| 20°   | 177.5  | 177.5  | 170.7  | 160.5  | 161.8  | 163.5  | 165.6  | 165.2  | 163.1  | 159.3  | 157.6  |
| 22.5° | 222.8  | 220.2  | 222.8  | 216.4  | 214.3  | 217.3  | 204.1  | 210.9  | 208.8  | 211.3  | 211.8  |
| 25°   | 276.6  | 277.4  | 268.5  | 260.9  | 254.5  | 255.4  | 260.5  | 259.2  | 252.9  | 255.0  | 261.3  |
| 27.5° | 321.0  | 324.4  | 330.8  | 321.9  | 316.4  | 314.7  | 313.0  | 314.3  | 323.2  | 322.3  | 314.7  |
| 30°   | 349.4  | 344.8  | 343.5  | 347.7  | 354.9  | 349.4  | 356.6  | 345.6  | 342.2  | 352.8  | 352.4  |
| 32.5° | 404.5  | 411.3  | 417.6  | 416.3  | 417.2  | 424.8  | 420.6  | 421.4  | 418.5  | 415.5  | 421.4  |
| 35°   | 451.9  | 452.3  | 448.1  | 454.0  | 452.3  | 454.5  | 460.0  | 460.4  | 462.1  | 461.2  | 461.7  |
| 37.5° | 471.4  | 474.8  | 476.5  | 465.9  | 477.3  | 478.2  | 483.3  | 487.5  | 496.0  | 502.3  | 505.3  |
| 40°   | 502.7  | 500.6  | 496.8  | 508.2  | 497.7  | 504.4  | 516.7  | 524.8  | 534.1  | 546.8  | 551.0  |
| 42.5° | 527.7  | 527.7  | 534.5  | 531.5  | 544.7  | 542.1  | 556.1  | 569.7  | 581.5  | 584.5  | 607.4  |
| 45°   | 554.8  | 567.5  | 568.8  | 575.6  | 584.1  | 599.7  | 601.0  | 612.0  | 625.1  | 641.7  | 649.3  |
| 47.5° | 595.9  | 597.2  | 612.9  | 621.8  | 633.6  | 647.2  | 654.8  | 658.6  | 675.1  | 688.7  | 697.1  |
| 50°   | 630.2  | 651.8  | 661.1  | 675.5  | 691.2  | 698.0  | 709.8  | 719.2  | 725.5  | 734.4  | 739.9  |
| 52.5° | 694.2  | 708.6  | 729.3  | 743.3  | 759.0  | 770.4  | 780.6  | 797.5  | 797.9  | 797.1  | 803.0  |
| 55°   | 800.9  | 830.6  | 863.2  | 873.8  | 903.8  | 918.2  | 936.0  | 946.2  | 961.4  | 946.2  | 950.0  |
| 57.5° | 1164.7 | 1212.2 | 1238.4 | 1273.6 | 1301.1 | 1321.9 | 1326.9 | 1339.2 | 1361.3 | 1358.7 | 1344.7 |
| 60°   | 1731.8 | 1737.4 | 1758.1 | 1784.8 | 1783.1 | 1807.2 | 1792.0 | 1810.6 | 1777.6 | 1773.8 | 1739.5 |
| 62.5° | 2094.4 | 2083.4 | 2081.3 | 2078.3 | 2068.6 | 2050.8 | 2027.9 | 2009.7 | 1980.5 | 1938.1 | 1908.9 |
| 65°   | 2178.7 | 2144.4 | 2121.1 | 2102.9 | 2066.9 | 2028.7 | 1998.3 | 1964.4 | 1940.2 | 1896.2 | 1852.1 |
| 67.5° | 2113.0 | 2071.1 | 2029.2 | 1974.5 | 1935.1 | 1888.1 | 1842.8 | 1813.2 | 1768.7 | 1744.1 | 1672.6 |
| 70°   | 1916.9 | 1841.5 | 1771.2 | 1700.5 | 1666.2 | 1603.1 | 1560.7 | 1539.1 | 1494.7 | 1467.6 | 1414.6 |
| 72.5° | 1339.2 | 1278.2 | 1175.7 | 1122.0 | 1110.5 | 1064.8 | 1046.1 | 1036.0 | 1014.4 | 989.8  | 962.3  |
| 75°   | 452.3  | 431.6  | 405.7  | 353.7  | 368.1  | 347.7  | 334.6  | 353.7  | 346.5  | 346.9  | 333.3  |
| 77.5° | 79.2   | 76.7   | 73.3   | 69.5   | 68.2   | 69.5   | 67.8   | 70.3   | 70.7   | 72.0   | 70.7   |
| 80°   | 56.8   | 53.8   | 51.7   | 50.0   | 48.7   | 49.1   | 47.9   | 48.3   | 47.9   | 48.3   | 47.9   |
| 82.5° | 40.7   | 39.0   | 36.8   | 35.6   | 35.2   | 35.6   | 34.7   | 36.0   | 36.8   | 38.1   | 39.4   |
| 85°   | 25.4   | 25.0   | 23.7   | 23.3   | 23.3   | 22.9   | 23.3   | 25.0   | 26.7   | 28.8   | 30.1   |
| 87.5° | 18.2   | 18.2   | 17.4   | 18.2   | 18.2   | 19.1   | 20.3   | 22.4   | 24.6   | 26.7   | 29.2   |
| 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: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 97°    | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°  | 125°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4   | 36.4  | 36.4  |
| 2.5°  | 35.6   | 35.6   | 35.6   | 35.6   | 35.6   | 35.6   | 35.6   | 35.2   | 35.2   | 35.6  | 35.6  |
| 5°    | 36.0   | 36.0   | 36.0   | 36.0   | 36.0   | 36.0   | 36.0   | 36.0   | 36.0   | 37.3  | 55.9  |
| 7.5°  | 37.7   | 37.7   | 37.7   | 37.3   | 37.3   | 37.3   | 37.7   | 38.1   | 37.7   | 53.4  | 36.4  |
| 10°   | 56.3   | 57.2   | 58.0   | 57.6   | 58.0   | 58.4   | 58.9   | 58.9   | 64.4   | 56.8  | 39.0  |
| 12.5° | 62.3   | 62.3   | 62.7   | 62.3   | 61.8   | 67.8   | 80.0   | 80.0   | 80.5   | 62.7  | 62.3  |
| 15°   | 88.1   | 86.8   | 88.1   | 91.9   | 103.8  | 105.5  | 105.9  | 105.5  | 100.4  | 93.6  | 89.8  |
| 17.5° | 105.9  | 100.8  | 106.3  | 116.0  | 105.5  | 105.0  | 98.7   | 94.0   | 95.7   | 116.9 | 121.1 |
| 20°   | 160.1  | 166.0  | 169.0  | 174.1  | 170.3  | 160.1  | 156.3  | 156.7  | 155.9  | 159.7 | 135.1 |
| 22.5° | 209.2  | 216.9  | 216.0  | 213.9  | 208.0  | 214.3  | 216.9  | 200.8  | 197.8  | 210.5 | 218.1 |
| 25°   | 271.9  | 268.1  | 268.9  | 264.7  | 262.6  | 263.4  | 266.0  | 278.3  | 277.8  | 301.1 | 242.7 |
| 27.5° | 324.9  | 329.9  | 326.5  | 327.0  | 334.6  | 329.5  | 338.0  | 338.0  | 355.3  | 329.1 | 325.3 |
| 30°   | 346.9  | 352.0  | 361.7  | 364.2  | 371.9  | 376.5  | 375.7  | 378.6  | 379.9  | 397.7 | 354.9 |
| 32.5° | 432.9  | 427.8  | 435.4  | 446.8  | 451.1  | 454.9  | 466.7  | 465.5  | 458.7  | 440.5 | 405.3 |
| 35°   | 472.2  | 483.3  | 483.3  | 484.5  | 503.2  | 504.4  | 503.2  | 510.4  | 504.9  | 493.0 | 427.3 |
| 37.5° | 511.2  | 515.4  | 529.0  | 531.1  | 528.2  | 542.1  | 542.6  | 538.7  | 544.2  | 522.6 | 468.0 |
| 40°   | 557.4  | 563.3  | 565.4  | 577.3  | 571.4  | 569.7  | 585.8  | 579.8  | 576.0  | 549.8 | 480.3 |
| 42.5° | 609.9  | 608.2  | 611.6  | 612.4  | 618.8  | 612.0  | 611.6  | 624.7  | 614.6  | 572.2 | 479.0 |
| 45°   | 662.8  | 655.6  | 652.2  | 652.7  | 651.8  | 655.2  | 644.6  | 651.8  | 653.1  | 584.1 | 468.0 |
| 47.5° | 696.3  | 705.6  | 697.1  | 689.9  | 685.3  | 685.7  | 682.3  | 665.8  | 678.9  | 587.9 | 450.6 |
| 50°   | 748.4  | 747.5  | 746.7  | 730.6  | 725.9  | 717.0  | 712.8  | 701.0  | 691.6  | 575.6 | 431.6 |
| 52.5° | 806.8  | 805.1  | 807.3  | 793.3  | 775.5  | 764.5  | 751.8  | 740.8  | 719.2  | 563.3 | 410.4 |
| 55°   | 951.3  | 947.5  | 936.0  | 932.2  | 899.6  | 871.6  | 836.9  | 815.7  | 796.7  | 562.5 | 385.8 |
| 57.5° | 1340.5 | 1323.1 | 1293.5 | 1270.6 | 1209.2 | 1150.3 | 1096.1 | 1034.3 | 991.5  | 609.5 | 367.2 |
| 60°   | 1699.7 | 1677.6 | 1639.5 | 1565.8 | 1501.9 | 1398.5 | 1300.3 | 1218.9 | 1144.4 | 659.0 | 346.0 |
| 62.5° | 1844.5 | 1798.3 | 1742.0 | 1669.2 | 1560.3 | 1460.4 | 1326.1 | 1232.1 | 1138.0 | 629.8 | 292.2 |
| 65°   | 1808.5 | 1731.0 | 1662.0 | 1580.2 | 1476.0 | 1351.1 | 1214.3 | 1101.2 | 1019.5 | 508.7 | 202.9 |
| 67.5° | 1637.0 | 1565.8 | 1496.8 | 1400.6 | 1285.4 | 1146.1 | 1028.8 | 911.9  | 838.6  | 362.1 | 113.1 |
| 70°   | 1370.1 | 1315.9 | 1232.1 | 1138.9 | 1034.3 | 907.6  | 788.2  | 686.6  | 613.7  | 221.1 | 55.1  |
| 72.5° | 941.9  | 895.8  | 860.6  | 781.4  | 675.5  | 561.2  | 493.8  | 414.6  | 371.0  | 113.1 | 36.4  |
| 75°   | 340.5  | 344.3  | 317.2  | 303.3  | 268.5  | 216.4  | 190.6  | 160.5  | 140.2  | 51.2  | 36.0  |
| 77.5° | 79.2   | 77.9   | 82.2   | 84.3   | 78.4   | 71.6   | 64.4   | 59.3   | 55.5   | 40.2  | 38.1  |
| 80°   | 48.3   | 47.9   | 47.4   | 47.0   | 46.6   | 46.2   | 45.7   | 44.9   | 44.0   | 39.4  | 38.5  |
| 82.5° | 40.2   | 40.7   | 40.7   | 40.7   | 41.1   | 41.1   | 41.5   | 41.5   | 41.1   | 39.4  | 39.0  |
| 85°   | 31.3   | 32.6   | 33.9   | 35.2   | 36.8   | 38.5   | 39.4   | 39.8   | 39.8   | 38.5  | 38.5  |
| 87.5° | 31.3   | 33.0   | 35.2   | 37.7   | 40.2   | 42.4   | 44.0   | 44.9   | 44.9   | 39.0  | 38.1  |
| 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: P157127

CATALOG NUMBER: UTLD-F01-LED-E-U-T2-7060

**CANDELA DISTRIBUTION (continued):**

|       | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 36.4  | 36.4  | 36.4  | 36.4  | 36.4  | 36.4  |
| 2.5°  | 37.7  | 36.8  | 37.3  | 40.2  | 38.5  | 37.7  |
| 5°    | 56.8  | 44.0  | 36.8  | 36.4  | 36.0  | 35.6  |
| 7.5°  | 37.7  | 37.7  | 38.5  | 47.9  | 52.9  | 55.9  |
| 10°   | 42.4  | 60.6  | 63.5  | 62.3  | 62.7  | 61.8  |
| 12.5° | 85.6  | 64.4  | 67.3  | 75.8  | 88.1  | 88.1  |
| 15°   | 92.8  | 113.1 | 91.9  | 92.8  | 91.5  | 91.5  |
| 17.5° | 121.6 | 120.7 | 97.8  | 118.2 | 119.9 | 119.9 |
| 20°   | 153.7 | 139.3 | 144.8 | 127.1 | 124.9 | 124.5 |
| 22.5° | 166.0 | 172.0 | 153.3 | 155.9 | 155.9 | 155.0 |
| 25°   | 221.1 | 193.6 | 180.9 | 160.9 | 178.7 | 174.9 |
| 27.5° | 257.5 | 214.3 | 211.8 | 190.2 | 187.6 | 185.9 |
| 30°   | 305.4 | 268.5 | 226.2 | 216.4 | 216.0 | 214.3 |
| 32.5° | 331.6 | 280.0 | 244.8 | 223.2 | 238.9 | 238.0 |
| 35°   | 361.3 | 291.8 | 259.2 | 243.1 | 232.1 | 230.4 |
| 37.5° | 363.0 | 296.9 | 251.2 | 246.9 | 243.5 | 242.3 |
| 40°   | 367.6 | 286.7 | 250.3 | 246.5 | 243.1 | 241.8 |
| 42.5° | 354.1 | 272.8 | 238.0 | 224.1 | 217.7 | 216.0 |
| 45°   | 335.4 | 251.2 | 212.6 | 196.9 | 189.3 | 187.6 |
| 47.5° | 313.4 | 231.7 | 185.5 | 171.1 | 160.5 | 157.6 |
| 50°   | 290.5 | 206.3 | 158.8 | 141.5 | 131.3 | 127.9 |
| 52.5° | 265.6 | 174.1 | 129.2 | 114.4 | 103.8 | 101.6 |
| 55°   | 235.5 | 140.2 | 100.8 | 90.6  | 84.3  | 82.6  |
| 57.5° | 196.5 | 105.5 | 77.1  | 72.4  | 69.5  | 68.6  |
| 60°   | 150.8 | 74.1  | 58.0  | 59.3  | 58.0  | 58.9  |
| 62.5° | 103.3 | 49.1  | 44.5  | 48.3  | 48.7  | 48.7  |
| 65°   | 60.1  | 35.6  | 36.0  | 40.7  | 41.1  | 41.5  |
| 67.5° | 36.8  | 29.6  | 31.3  | 36.0  | 36.4  | 36.4  |
| 70°   | 30.9  | 27.5  | 29.2  | 33.9  | 34.3  | 34.3  |
| 72.5° | 30.1  | 27.5  | 28.4  | 33.0  | 33.5  | 33.9  |
| 75°   | 30.5  | 27.1  | 28.4  | 33.0  | 32.6  | 32.2  |
| 77.5° | 31.3  | 27.1  | 28.0  | 33.0  | 33.5  | 31.3  |
| 80°   | 30.9  | 26.3  | 26.7  | 35.2  | 33.9  | 28.8  |
| 82.5° | 29.6  | 24.6  | 23.7  | 37.3  | 30.1  | 25.8  |
| 85°   | 27.5  | 22.0  | 19.5  | 40.7  | 29.6  | 18.6  |
| 87.5° | 15.7  | 18.2  | 14.4  | 35.6  | 27.1  | 14.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)