

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: P179246

Luminaire Tested: **UTLD-F02-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P179246  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F02-LED-E-U-SL2-HSS-7050  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2751.4 lumens  
Efficiency: N/A  
Efficacy: 50.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 55  
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

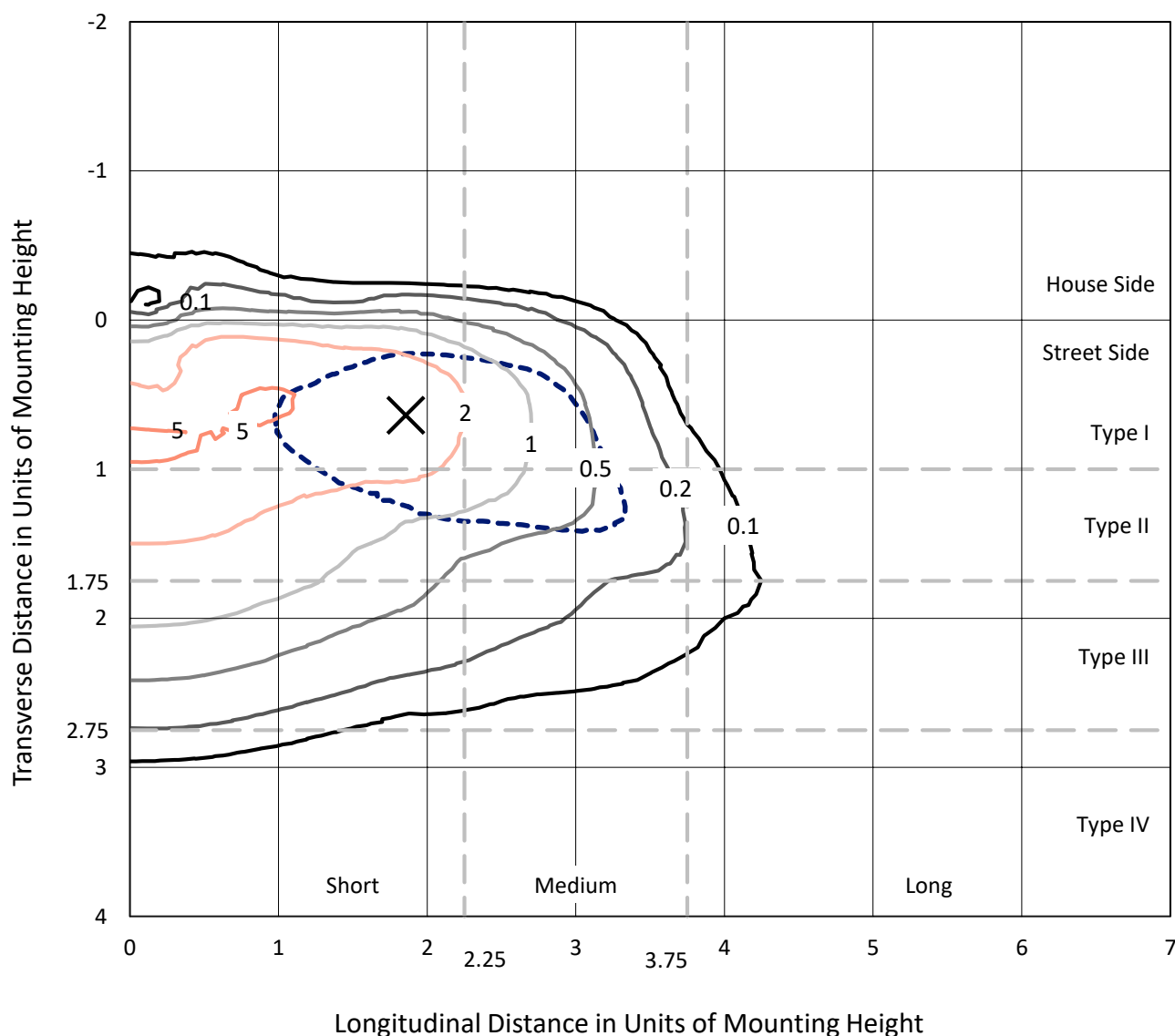


REPORT NUMBER: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

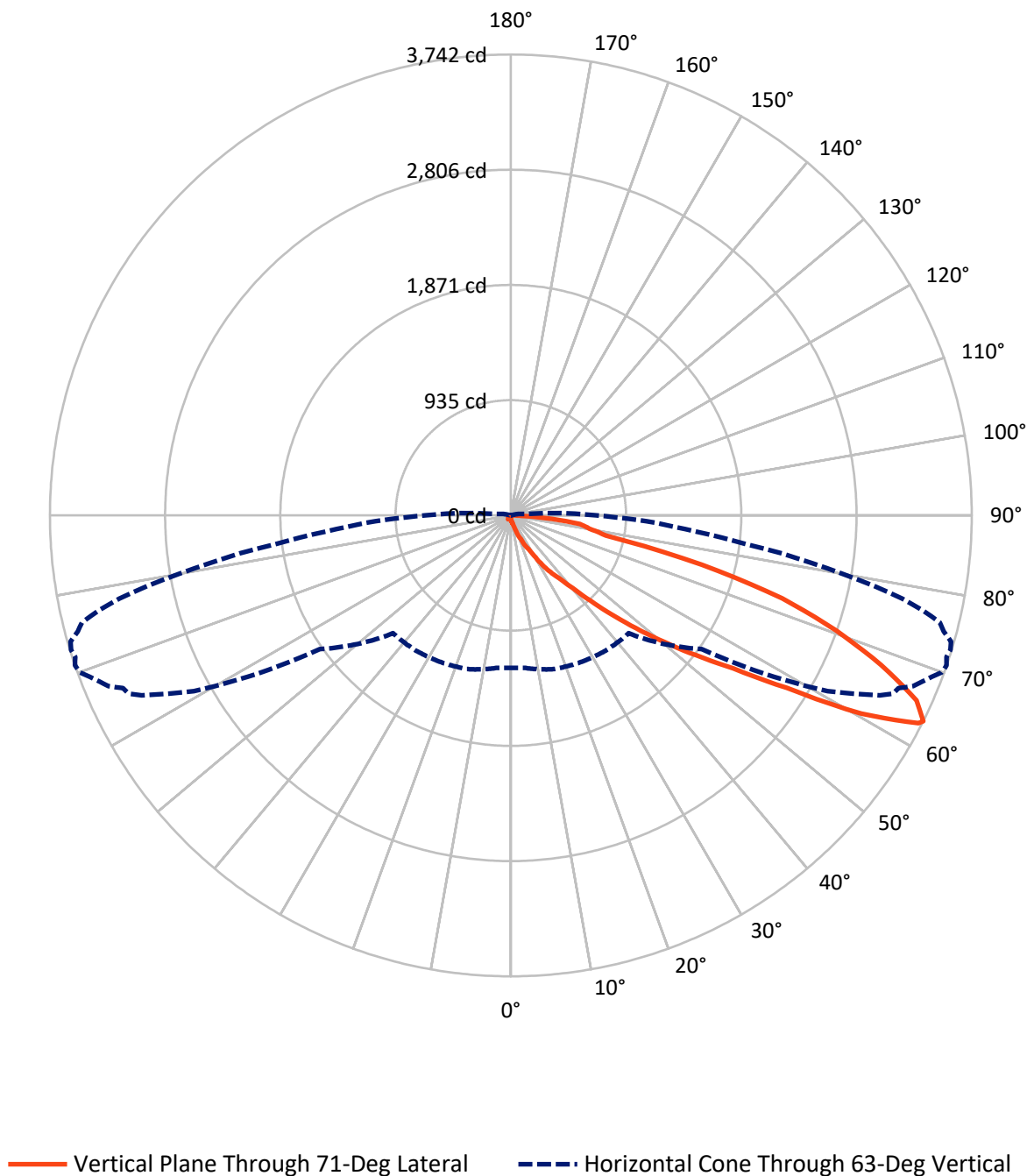


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

## Luminous Intensity Polar Plot



REPORT NUMBER: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

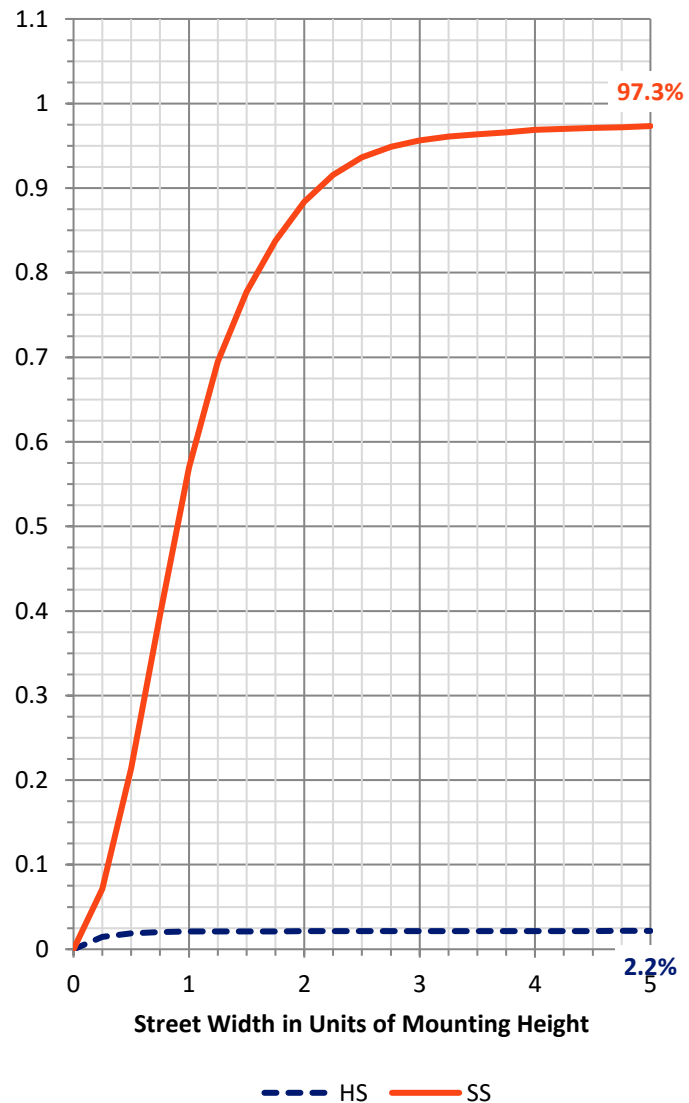
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 61.0     | 0.0    | 61.0   |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 2690.4   | 0.0    | 2690.4 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 2751.4   | 0.0    | 2751.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.9    | 0.1       |
| 10°-20°   | 21.8   | 0.8       |
| 20°-30°   | 66.8   | 2.4       |
| 30°-40°   | 205.8  | 7.5       |
| 40°-50°   | 488.9  | 17.8      |
| 50°-60°   | 706.4  | 25.7      |
| 60°-70°   | 874.2  | 31.8      |
| 70°-80°   | 331.9  | 12.1      |
| 80°-90°   | 51.8   | 1.9       |
| 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°    | 2751.4 | 100.0     |
| 0°-180°   | 2751.4 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P179246

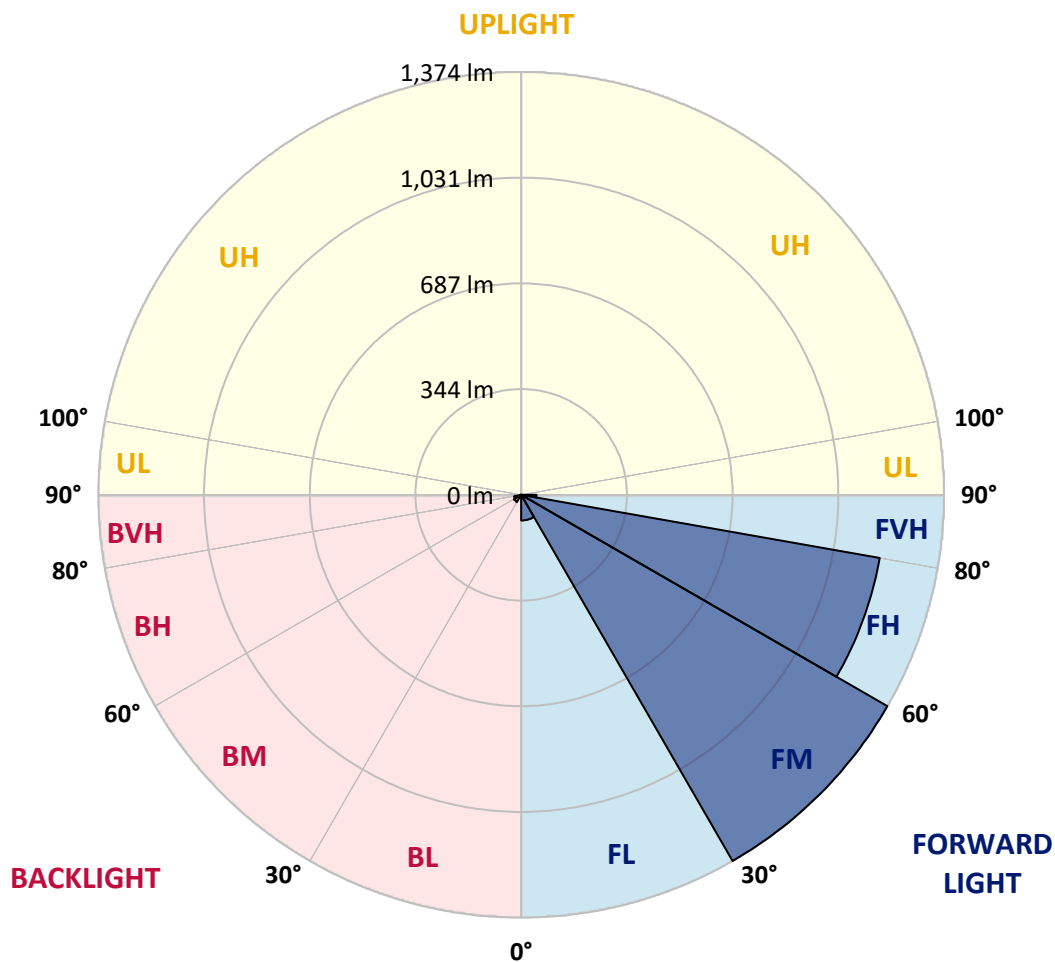
CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 83.4   | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 1374.0 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 1183.1 | 43.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 49.9   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 9.1    | 0.3       | B0/110                  |      |         |
| BM   | (30°-60°)   | 27.1   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 22.9   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.8    | 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-G1**

Type II Short





REPORT NUMBER: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   |
| 2.5°  | 52.5   | 51.7   | 50.0   | 50.0   | 49.1   | 49.1   | 48.3   | 47.4   | 47.4   | 47.4   | 46.6   |
| 5°    | 61.8   | 61.0   | 58.4   | 55.9   | 55.9   | 54.2   | 50.8   | 50.0   | 49.1   | 48.3   | 48.3   |
| 7.5°  | 100.8  | 100.0  | 98.3   | 95.7   | 91.5   | 62.7   | 55.9   | 55.1   | 54.2   | 53.4   | 52.5   |
| 10°   | 112.7  | 112.7  | 111.8  | 108.4  | 104.2  | 97.4   | 88.9   | 64.4   | 62.7   | 63.5   | 66.1   |
| 12.5° | 151.6  | 147.4  | 149.9  | 145.7  | 122.8  | 115.2  | 117.7  | 109.3  | 107.6  | 106.7  | 83.0   |
| 15°   | 161.8  | 157.6  | 149.9  | 150.8  | 154.2  | 163.5  | 133.0  | 125.4  | 121.1  | 118.6  | 118.6  |
| 17.5° | 177.9  | 177.9  | 178.7  | 178.7  | 172.0  | 175.3  | 172.8  | 153.3  | 152.5  | 149.1  | 148.2  |
| 20°   | 218.5  | 216.9  | 193.1  | 182.1  | 200.8  | 205.0  | 205.8  | 177.0  | 171.1  | 170.3  | 175.3  |
| 22.5° | 231.3  | 229.6  | 225.3  | 229.6  | 205.8  | 231.3  | 266.0  | 265.1  | 258.4  | 255.0  | 233.8  |
| 25°   | 294.8  | 292.2  | 277.0  | 237.2  | 253.3  | 254.1  | 288.0  | 290.5  | 288.9  | 294.8  | 312.6  |
| 27.5° | 340.5  | 343.9  | 309.2  | 283.8  | 266.8  | 303.3  | 366.8  | 374.4  | 374.4  | 365.9  | 366.8  |
| 30°   | 433.7  | 432.0  | 393.9  | 329.5  | 321.9  | 326.1  | 404.1  | 430.3  | 452.3  | 438.8  | 454.0  |
| 32.5° | 623.4  | 615.0  | 556.5  | 438.8  | 385.4  | 403.2  | 484.5  | 515.9  | 510.8  | 503.2  | 516.7  |
| 35°   | 897.9  | 892.0  | 771.7  | 659.0  | 554.0  | 512.5  | 572.6  | 625.1  | 614.1  | 638.7  | 648.0  |
| 37.5° | 1091.0 | 1075.8 | 1024.1 | 910.6  | 808.1  | 739.5  | 764.9  | 744.6  | 742.0  | 759.0  | 757.3  |
| 40°   | 1233.3 | 1234.2 | 1216.4 | 1124.1 | 1049.5 | 1011.4 | 1014.8 | 939.4  | 934.3  | 940.3  | 928.4  |
| 42.5° | 1302.8 | 1308.7 | 1323.1 | 1277.4 | 1246.9 | 1251.1 | 1285.0 | 1221.5 | 1218.9 | 1203.7 | 1158.0 |
| 45°   | 1345.2 | 1352.8 | 1396.8 | 1412.1 | 1402.8 | 1445.1 | 1537.4 | 1485.8 | 1490.0 | 1503.6 | 1438.3 |
| 47.5° | 1350.2 | 1361.3 | 1418.9 | 1464.6 | 1501.9 | 1587.4 | 1728.9 | 1740.7 | 1753.4 | 1764.5 | 1716.2 |
| 50°   | 1300.3 | 1304.5 | 1377.3 | 1443.4 | 1498.5 | 1659.4 | 1874.6 | 1948.3 | 1971.1 | 1971.1 | 1930.5 |
| 52.5° | 1209.6 | 1215.6 | 1285.0 | 1357.0 | 1409.5 | 1656.0 | 1968.6 | 2102.4 | 2153.3 | 2155.0 | 2096.5 |
| 55°   | 1170.7 | 1177.4 | 1230.0 | 1293.5 | 1319.7 | 1573.9 | 2026.2 | 2242.2 | 2295.6 | 2304.9 | 2270.2 |
| 57.5° | 1170.7 | 1178.3 | 1220.6 | 1257.9 | 1271.5 | 1478.1 | 2060.9 | 2405.7 | 2465.8 | 2523.4 | 2521.7 |
| 60°   | 1223.2 | 1231.6 | 1265.5 | 1263.0 | 1250.3 | 1410.4 | 2045.7 | 2605.6 | 2703.0 | 2799.6 | 2910.6 |
| 62.5° | 1253.7 | 1257.9 | 1304.5 | 1318.0 | 1315.5 | 1360.4 | 1926.2 | 2754.7 | 2905.5 | 3046.1 | 3286.7 |
| 63°   | 1236.7 | 1241.8 | 1293.5 | 1318.0 | 1340.1 | 1352.8 | 1893.2 | 2770.8 | 2941.0 | 3065.6 | 3332.4 |
| 65°   | 1145.2 | 1146.1 | 1201.2 | 1231.6 | 1380.7 | 1351.9 | 1716.2 | 2739.4 | 2947.8 | 3071.5 | 3368.8 |
| 67.5° | 907.2  | 912.3  | 950.4  | 1002.1 | 1140.2 | 1372.3 | 1474.8 | 2380.3 | 2591.2 | 2690.3 | 3021.5 |
| 70°   | 477.8  | 498.9  | 530.3  | 598.9  | 787.8  | 1165.6 | 1234.2 | 1753.4 | 1957.6 | 2105.0 | 2485.3 |
| 72.5° | 144.8  | 134.7  | 175.3  | 256.7  | 400.7  | 806.4  | 1082.6 | 1238.4 | 1356.2 | 1502.7 | 1907.6 |
| 75°   | 65.2   | 66.9   | 76.2   | 109.3  | 175.3  | 432.9  | 946.2  | 1017.3 | 1033.4 | 1083.4 | 1329.1 |
| 77.5° | 37.3   | 38.1   | 44.9   | 61.8   | 91.5   | 216.0  | 716.6  | 912.3  | 899.6  | 917.4  | 962.3  |
| 80°   | 24.6   | 25.4   | 32.2   | 44.0   | 50.8   | 105.9  | 406.6  | 711.5  | 753.1  | 798.8  | 831.8  |
| 82.5° | 13.6   | 13.6   | 20.3   | 35.6   | 33.0   | 50.8   | 160.1  | 465.9  | 540.4  | 587.9  | 687.0  |
| 85°   | 5.9    | 6.8    | 11.9   | 23.7   | 20.3   | 23.7   | 77.1   | 158.4  | 181.3  | 190.6  | 237.2  |
| 87.5° | 1.7    | 1.7    | 3.4    | 8.5    | 8.5    | 11.0   | 22.9   | 71.2   | 75.4   | 81.3   | 99.1   |
| 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: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   |
| 2.5°  | 46.6   | 46.6   | 44.9   | 44.0   | 41.5   | 41.5   | 39.8   | 40.7   | 38.1   | 37.3   | 35.6   |
| 5°    | 47.4   | 47.4   | 47.4   | 47.4   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 45.7   |
| 7.5°  | 51.7   | 51.7   | 51.7   | 51.7   | 50.8   | 50.0   | 48.3   | 48.3   | 47.4   | 47.4   | 47.4   |
| 10°   | 66.1   | 65.2   | 63.5   | 62.7   | 61.8   | 61.0   | 59.3   | 60.1   | 58.4   | 59.3   | 57.6   |
| 12.5° | 78.8   | 77.1   | 74.5   | 72.0   | 71.2   | 70.3   | 68.6   | 67.8   | 66.9   | 68.6   | 67.8   |
| 15°   | 122.8  | 122.0  | 122.8  | 118.6  | 96.6   | 95.7   | 96.6   | 94.9   | 93.2   | 90.6   | 87.2   |
| 17.5° | 146.5  | 144.0  | 135.5  | 132.1  | 133.0  | 130.4  | 123.7  | 110.1  | 102.5  | 99.1   | 97.4   |
| 20°   | 188.1  | 188.9  | 190.6  | 190.6  | 187.2  | 183.0  | 178.7  | 177.9  | 172.8  | 155.0  | 148.2  |
| 22.5° | 225.3  | 225.3  | 221.1  | 216.9  | 211.8  | 212.6  | 206.7  | 193.1  | 188.9  | 183.8  | 181.3  |
| 25°   | 323.6  | 318.5  | 306.6  | 302.4  | 298.2  | 287.2  | 272.8  | 265.1  | 262.6  | 259.2  | 248.2  |
| 27.5° | 365.9  | 359.2  | 356.6  | 351.5  | 336.3  | 318.5  | 312.6  | 308.3  | 312.6  | 292.2  | 277.8  |
| 30°   | 443.0  | 442.2  | 439.6  | 428.6  | 410.0  | 395.6  | 396.4  | 392.2  | 364.2  | 343.1  | 329.5  |
| 32.5° | 521.8  | 515.9  | 536.2  | 515.9  | 498.9  | 504.9  | 497.2  | 471.0  | 451.5  | 429.5  | 426.9  |
| 35°   | 645.5  | 645.5  | 628.5  | 606.5  | 609.0  | 613.3  | 576.9  | 549.8  | 537.0  | 527.7  | 509.1  |
| 37.5° | 759.0  | 753.9  | 722.6  | 710.7  | 724.2  | 700.5  | 659.9  | 642.1  | 637.8  | 621.8  | 592.1  |
| 40°   | 913.1  | 882.7  | 858.9  | 856.4  | 854.7  | 799.6  | 776.8  | 778.5  | 756.4  | 724.2  | 690.4  |
| 42.5° | 1124.9 | 1075.8 | 1058.0 | 1059.7 | 998.7  | 954.7  | 946.2  | 925.0  | 896.2  | 859.8  | 829.3  |
| 45°   | 1368.9 | 1321.4 | 1322.3 | 1268.9 | 1191.8 | 1153.7 | 1145.2 | 1112.2 | 1076.6 | 1034.3 | 990.2  |
| 47.5° | 1634.0 | 1600.1 | 1617.1 | 1510.3 | 1442.6 | 1420.5 | 1366.3 | 1314.7 | 1273.2 | 1221.5 | 1166.4 |
| 50°   | 1872.9 | 1890.7 | 1853.4 | 1760.2 | 1711.1 | 1681.4 | 1617.9 | 1553.5 | 1500.2 | 1421.4 | 1346.9 |
| 52.5° | 2096.5 | 2130.4 | 2071.9 | 1986.4 | 1993.2 | 1936.4 | 1887.3 | 1822.1 | 1750.9 | 1657.7 | 1578.9 |
| 55°   | 2320.1 | 2327.8 | 2279.5 | 2251.5 | 2249.8 | 2213.4 | 2191.4 | 2144.8 | 2049.1 | 1955.1 | 1919.5 |
| 57.5° | 2602.2 | 2592.9 | 2559.0 | 2603.1 | 2606.5 | 2618.3 | 2642.0 | 2593.7 | 2564.9 | 2496.3 | 2441.3 |
| 60°   | 3009.7 | 3002.0 | 3017.3 | 3146.9 | 3173.1 | 3251.9 | 3268.9 | 3270.6 | 3246.0 | 3268.0 | 3134.2 |
| 62.5° | 3369.7 | 3400.2 | 3499.3 | 3559.4 | 3621.2 | 3697.5 | 3714.4 | 3683.1 | 3699.2 | 3700.9 | 3596.7 |
| 63°   | 3422.2 | 3445.9 | 3548.4 | 3600.1 | 3659.4 | 3722.9 | 3741.5 | 3717.8 | 3732.2 | 3717.8 | 3639.0 |
| 65°   | 3445.1 | 3456.1 | 3576.4 | 3562.8 | 3638.2 | 3666.1 | 3618.7 | 3609.4 | 3662.8 | 3586.5 | 3572.1 |
| 67.5° | 3107.1 | 3174.0 | 3254.5 | 3254.5 | 3312.9 | 3307.0 | 3243.5 | 3257.0 | 3257.9 | 3228.2 | 3220.6 |
| 70°   | 2598.0 | 2733.5 | 2750.5 | 2811.4 | 2852.1 | 2816.5 | 2803.0 | 2812.3 | 2741.1 | 2757.2 | 2686.1 |
| 72.5° | 2066.9 | 2212.6 | 2239.7 | 2353.2 | 2365.0 | 2284.6 | 2304.0 | 2248.1 | 2170.2 | 2121.9 | 2023.7 |
| 75°   | 1504.4 | 1596.7 | 1677.2 | 1709.4 | 1710.2 | 1634.0 | 1601.0 | 1472.2 | 1357.9 | 1220.6 | 1184.2 |
| 77.5° | 1050.4 | 1040.2 | 1070.7 | 1052.9 | 933.5  | 895.4  | 787.8  | 725.1  | 666.6  | 565.0  | 509.1  |
| 80°   | 848.8  | 839.5  | 853.9  | 815.7  | 764.1  | 720.9  | 643.8  | 586.2  | 521.0  | 476.9  | 409.1  |
| 82.5° | 724.2  | 762.4  | 771.7  | 717.5  | 691.2  | 654.8  | 565.8  | 503.2  | 439.6  | 382.9  | 329.5  |
| 85°   | 276.1  | 329.5  | 325.3  | 338.8  | 339.7  | 321.0  | 282.9  | 224.5  | 177.9  | 144.0  | 116.9  |
| 87.5° | 106.7  | 119.4  | 111.8  | 111.0  | 111.8  | 102.5  | 87.2   | 77.1   | 65.2   | 52.5   | 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: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   |
| 2.5°  | 34.7   | 33.0   | 33.0   | 31.3   | 31.3   | 30.5   | 30.5   | 29.6   | 29.6   | 28.8   | 28.8   |
| 5°    | 45.7   | 45.7   | 44.9   | 43.2   | 39.0   | 37.3   | 33.9   | 31.3   | 30.5   | 29.6   | 28.8   |
| 7.5°  | 47.4   | 47.4   | 46.6   | 46.6   | 45.7   | 44.9   | 44.0   | 41.5   | 37.3   | 33.9   | 31.3   |
| 10°   | 57.6   | 55.9   | 56.8   | 58.4   | 57.6   | 57.6   | 56.8   | 55.9   | 54.2   | 52.5   | 42.4   |
| 12.5° | 66.9   | 66.1   | 64.4   | 61.0   | 59.3   | 58.4   | 58.4   | 57.6   | 56.8   | 55.9   | 54.2   |
| 15°   | 84.7   | 82.2   | 81.3   | 78.8   | 77.1   | 74.5   | 75.4   | 74.5   | 72.8   | 69.5   | 61.8   |
| 17.5° | 94.0   | 92.3   | 89.8   | 90.6   | 88.9   | 83.9   | 75.4   | 72.8   | 70.3   | 67.8   | 65.2   |
| 20°   | 145.7  | 143.2  | 138.1  | 129.6  | 119.4  | 114.4  | 110.1  | 105.9  | 106.7  | 105.9  | 99.1   |
| 22.5° | 170.3  | 155.0  | 145.7  | 138.9  | 136.4  | 136.4  | 133.0  | 134.7  | 123.7  | 120.3  | 105.9  |
| 25°   | 228.7  | 217.7  | 205.8  | 199.1  | 195.7  | 188.1  | 173.7  | 163.5  | 152.5  | 149.1  | 138.1  |
| 27.5° | 273.6  | 263.4  | 263.4  | 252.4  | 233.8  | 219.4  | 205.0  | 196.5  | 183.0  | 173.7  | 161.8  |
| 30°   | 329.5  | 316.8  | 300.7  | 280.4  | 262.6  | 249.0  | 238.9  | 218.5  | 205.8  | 193.1  | 169.4  |
| 32.5° | 411.7  | 388.0  | 367.6  | 349.0  | 332.9  | 305.8  | 289.7  | 272.8  | 246.5  | 219.4  | 207.5  |
| 35°   | 487.9  | 458.3  | 435.4  | 415.9  | 382.9  | 364.2  | 339.7  | 301.6  | 273.6  | 260.1  | 232.9  |
| 37.5° | 562.5  | 534.5  | 512.5  | 474.4  | 444.7  | 413.4  | 372.7  | 344.8  | 320.2  | 286.3  | 249.0  |
| 40°   | 659.9  | 628.5  | 583.6  | 550.6  | 511.6  | 459.1  | 428.6  | 394.7  | 353.2  | 311.7  | 280.4  |
| 42.5° | 787.8  | 737.8  | 701.4  | 659.9  | 588.7  | 554.8  | 513.3  | 453.2  | 400.7  | 363.4  | 311.7  |
| 45°   | 941.9  | 890.3  | 851.3  | 770.0  | 718.3  | 666.6  | 604.0  | 533.7  | 481.1  | 422.7  | 378.6  |
| 47.5° | 1105.4 | 1069.9 | 986.8  | 905.5  | 854.7  | 777.6  | 705.6  | 632.8  | 559.9  | 508.2  | 428.6  |
| 50°   | 1309.6 | 1219.8 | 1128.3 | 1069.9 | 987.7  | 901.3  | 816.6  | 724.2  | 660.7  | 581.1  | 504.0  |
| 52.5° | 1513.7 | 1390.1 | 1324.0 | 1237.6 | 1125.8 | 1026.7 | 928.4  | 838.6  | 748.8  | 663.3  | 571.8  |
| 55°   | 1789.0 | 1665.4 | 1566.2 | 1441.7 | 1314.7 | 1201.2 | 1099.5 | 988.5  | 890.3  | 780.2  | 680.2  |
| 57.5° | 2292.2 | 2155.8 | 2013.5 | 1827.1 | 1672.1 | 1534.9 | 1397.7 | 1266.4 | 1119.8 | 1001.2 | 880.1  |
| 60°   | 3044.4 | 2901.2 | 2705.6 | 2487.9 | 2248.1 | 2034.7 | 1839.0 | 1642.5 | 1461.2 | 1315.5 | 1128.3 |
| 62.5° | 3539.1 | 3391.7 | 3210.4 | 2952.1 | 2698.8 | 2415.9 | 2171.9 | 1899.1 | 1696.7 | 1487.5 | 1314.7 |
| 63°   | 3588.2 | 3431.5 | 3249.4 | 3004.6 | 2736.9 | 2471.8 | 2224.4 | 1927.1 | 1719.6 | 1509.5 | 1330.8 |
| 65°   | 3512.8 | 3415.4 | 3246.0 | 3041.0 | 2833.5 | 2575.1 | 2304.9 | 2012.7 | 1778.0 | 1564.5 | 1355.3 |
| 67.5° | 3139.3 | 3094.4 | 2984.2 | 2872.4 | 2686.9 | 2507.3 | 2260.0 | 2002.5 | 1753.4 | 1551.0 | 1357.9 |
| 70°   | 2659.0 | 2597.1 | 2510.7 | 2465.8 | 2337.9 | 2185.5 | 2015.2 | 1813.6 | 1634.0 | 1434.9 | 1259.6 |
| 72.5° | 1987.2 | 1865.3 | 1795.8 | 1720.4 | 1639.1 | 1532.4 | 1433.3 | 1319.7 | 1174.0 | 1068.2 | 892.0  |
| 75°   | 1040.2 | 904.7  | 812.3  | 703.9  | 616.7  | 527.7  | 480.3  | 448.1  | 399.0  | 344.8  | 304.9  |
| 77.5° | 421.8  | 352.4  | 284.6  | 242.3  | 182.1  | 145.7  | 124.5  | 110.1  | 101.6  | 90.6   | 83.9   |
| 80°   | 354.1  | 282.9  | 227.9  | 172.8  | 127.1  | 92.3   | 68.6   | 53.4   | 45.7   | 39.8   | 36.4   |
| 82.5° | 286.3  | 245.7  | 204.1  | 160.9  | 123.7  | 100.0  | 73.7   | 52.5   | 38.1   | 30.5   | 26.3   |
| 85°   | 91.5   | 80.5   | 62.7   | 52.5   | 43.2   | 36.4   | 30.5   | 24.6   | 22.0   | 20.3   | 18.6   |
| 87.5° | 38.1   | 29.6   | 27.1   | 24.6   | 23.7   | 22.9   | 22.9   | 21.2   | 19.5   | 16.9   | 15.2   |
| 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: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°   | 90°   | 95°   | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|-------|-------|-------|------|------|------|------|------|------|
| 0°    | 28.0   | 28.0   | 28.0  | 28.0  | 28.0  | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| 2.5°  | 28.0   | 28.0   | 27.1  | 28.0  | 26.3  | 24.6 | 23.7 | 22.9 | 22.0 | 22.0 | 22.0 |
| 5°    | 28.8   | 28.0   | 27.1  | 26.3  | 23.7  | 22.0 | 20.3 | 18.6 | 21.2 | 18.6 | 12.7 |
| 7.5°  | 29.6   | 28.8   | 27.1  | 26.3  | 23.7  | 21.2 | 19.5 | 11.9 | 7.6  | 7.6  | 8.5  |
| 10°   | 39.8   | 37.3   | 36.4  | 33.9  | 31.3  | 22.9 | 14.4 | 7.6  | 6.8  | 10.2 | 11.9 |
| 12.5° | 43.2   | 40.7   | 38.1  | 35.6  | 29.6  | 24.6 | 11.9 | 10.2 | 12.7 | 10.2 | 11.0 |
| 15°   | 58.4   | 50.0   | 47.4  | 44.9  | 39.8  | 28.8 | 13.6 | 13.6 | 12.7 | 11.0 | 12.7 |
| 17.5° | 64.4   | 55.1   | 52.5  | 50.8  | 39.0  | 18.6 | 15.2 | 16.1 | 12.7 | 14.4 | 11.9 |
| 20°   | 93.2   | 83.0   | 75.4  | 72.0  | 52.5  | 27.1 | 21.2 | 15.2 | 16.1 | 12.7 | 14.4 |
| 22.5° | 106.7  | 99.1   | 91.5  | 89.8  | 59.3  | 29.6 | 24.6 | 21.2 | 15.2 | 15.2 | 13.6 |
| 25°   | 132.1  | 122.0  | 109.3 | 98.3  | 62.7  | 37.3 | 29.6 | 21.2 | 17.8 | 14.4 | 13.6 |
| 27.5° | 149.9  | 133.0  | 122.0 | 115.2 | 67.8  | 39.0 | 28.8 | 23.7 | 17.8 | 13.6 | 11.9 |
| 30°   | 156.7  | 147.4  | 132.1 | 115.2 | 68.6  | 40.7 | 30.5 | 22.9 | 17.8 | 13.6 | 12.7 |
| 32.5° | 191.4  | 170.3  | 148.2 | 135.5 | 73.7  | 43.2 | 29.6 | 22.9 | 16.9 | 12.7 | 11.9 |
| 35°   | 205.0  | 184.7  | 160.9 | 143.2 | 77.1  | 41.5 | 28.8 | 20.3 | 15.2 | 11.9 | 9.3  |
| 37.5° | 227.0  | 197.4  | 174.5 | 152.5 | 77.9  | 39.0 | 26.3 | 19.5 | 13.6 | 10.2 | 8.5  |
| 40°   | 243.1  | 218.5  | 184.7 | 160.1 | 77.9  | 36.4 | 24.6 | 16.9 | 11.9 | 8.5  | 6.8  |
| 42.5° | 281.2  | 238.0  | 204.1 | 175.3 | 79.6  | 33.0 | 22.0 | 14.4 | 10.2 | 5.9  | 5.1  |
| 45°   | 321.9  | 280.4  | 235.5 | 200.8 | 81.3  | 30.5 | 19.5 | 12.7 | 7.6  | 4.2  | 2.5  |
| 47.5° | 379.5  | 325.3  | 274.5 | 230.4 | 82.2  | 28.0 | 17.8 | 11.0 | 5.9  | 2.5  | 1.7  |
| 50°   | 434.5  | 376.1  | 314.3 | 269.4 | 83.9  | 25.4 | 15.2 | 9.3  | 4.2  | 1.7  | 0.8  |
| 52.5° | 498.9  | 426.9  | 364.2 | 300.7 | 84.7  | 23.7 | 13.6 | 7.6  | 2.5  | 0.8  | 0.0  |
| 55°   | 590.4  | 514.2  | 426.1 | 359.2 | 86.4  | 21.2 | 11.0 | 5.9  | 1.7  | 0.8  | 0.0  |
| 57.5° | 772.5  | 669.2  | 560.8 | 464.2 | 94.9  | 18.6 | 9.3  | 4.2  | 0.8  | 0.8  | 0.0  |
| 60°   | 994.5  | 879.3  | 736.1 | 596.3 | 111.8 | 16.1 | 7.6  | 2.5  | 0.8  | 0.0  | 0.0  |
| 62.5° | 1155.4 | 1007.2 | 836.9 | 686.1 | 123.7 | 13.6 | 6.8  | 1.7  | 0.8  | 0.8  | 0.0  |
| 63°   | 1181.7 | 1021.6 | 844.5 | 692.1 | 124.5 | 13.6 | 5.9  | 1.7  | 0.8  | 0.0  | 0.0  |
| 65°   | 1201.2 | 1035.1 | 854.7 | 701.4 | 127.1 | 11.9 | 5.1  | 1.7  | 0.8  | 0.8  | 0.0  |
| 67.5° | 1185.1 | 1005.5 | 830.1 | 683.6 | 128.8 | 10.2 | 4.2  | 1.7  | 0.8  | 0.8  | 0.8  |
| 70°   | 1074.9 | 914.8  | 761.5 | 624.3 | 119.4 | 8.5  | 3.4  | 1.7  | 0.8  | 0.8  | 0.8  |
| 72.5° | 772.5  | 688.7  | 548.1 | 450.6 | 91.5  | 7.6  | 3.4  | 2.5  | 0.8  | 1.7  | 1.7  |
| 75°   | 260.1  | 232.9  | 194.0 | 172.0 | 53.4  | 5.1  | 2.5  | 2.5  | 0.8  | 1.7  | 1.7  |
| 77.5° | 74.5   | 69.5   | 60.1  | 55.1  | 27.1  | 4.2  | 2.5  | 2.5  | 0.8  | 2.5  | 2.5  |
| 80°   | 32.2   | 29.6   | 26.3  | 22.9  | 11.9  | 3.4  | 2.5  | 3.4  | 0.8  | 3.4  | 2.5  |
| 82.5° | 23.7   | 21.2   | 18.6  | 15.2  | 6.8   | 3.4  | 3.4  | 4.2  | 0.8  | 3.4  | 3.4  |
| 85°   | 16.9   | 15.2   | 12.7  | 11.0  | 5.1   | 3.4  | 3.4  | 4.2  | 1.7  | 4.2  | 4.2  |
| 87.5° | 13.6   | 11.9   | 10.2  | 7.6   | 5.1   | 3.4  | 3.4  | 5.1  | 1.7  | 5.1  | 4.2  |
| 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: P179246

CATALOG NUMBER: UTLD-F02-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 165° | 175° | 180° |
|-------|------|------|------|
| 0°    | 28.0 | 28.0 | 28.0 |
| 2.5°  | 22.0 | 22.9 | 22.9 |
| 5°    | 11.0 | 11.9 | 11.9 |
| 7.5°  | 9.3  | 10.2 | 10.2 |
| 10°   | 12.7 | 12.7 | 12.7 |
| 12.5° | 11.9 | 12.7 | 12.7 |
| 15°   | 13.6 | 14.4 | 14.4 |
| 17.5° | 11.9 | 15.2 | 16.1 |
| 20°   | 13.6 | 13.6 | 13.6 |
| 22.5° | 13.6 | 14.4 | 14.4 |
| 25°   | 12.7 | 12.7 | 12.7 |
| 27.5° | 12.7 | 12.7 | 12.7 |
| 30°   | 11.0 | 12.7 | 12.7 |
| 32.5° | 11.0 | 11.0 | 11.0 |
| 35°   | 10.2 | 10.2 | 10.2 |
| 37.5° | 8.5  | 9.3  | 9.3  |
| 40°   | 6.8  | 6.8  | 6.8  |
| 42.5° | 4.2  | 4.2  | 4.2  |
| 45°   | 2.5  | 2.5  | 2.5  |
| 47.5° | 1.7  | 1.7  | 1.7  |
| 50°   | 0.8  | 0.8  | 0.8  |
| 52.5° | 0.8  | 0.8  | 0.8  |
| 55°   | 0.0  | 0.8  | 0.8  |
| 57.5° | 0.0  | 0.0  | 0.8  |
| 60°   | 0.0  | 0.0  | 0.8  |
| 62.5° | 0.0  | 0.0  | 0.8  |
| 63°   | 0.0  | 0.0  | 0.8  |
| 65°   | 0.8  | 0.0  | 0.8  |
| 67.5° | 0.8  | 0.8  | 0.8  |
| 70°   | 0.8  | 0.8  | 0.8  |
| 72.5° | 1.7  | 0.8  | 1.7  |
| 75°   | 1.7  | 1.7  | 1.7  |
| 77.5° | 2.5  | 1.7  | 1.7  |
| 80°   | 2.5  | 2.5  | 1.7  |
| 82.5° | 3.4  | 2.5  | 0.8  |
| 85°   | 3.4  | 3.4  | 1.7  |
| 87.5° | 4.2  | 4.2  | 1.7  |
| 90°   | 0.0  | 0.0  | 0.0  |

(END OF REPORT)