

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: P157118

Luminaire Tested: **UTLD-E01-LED-E-U-T2-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P157118  
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-E01-LED-E-U-T2-8030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2260 lumens  
Efficiency: N/A  
Efficacy: 91.5 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): 24.7  
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



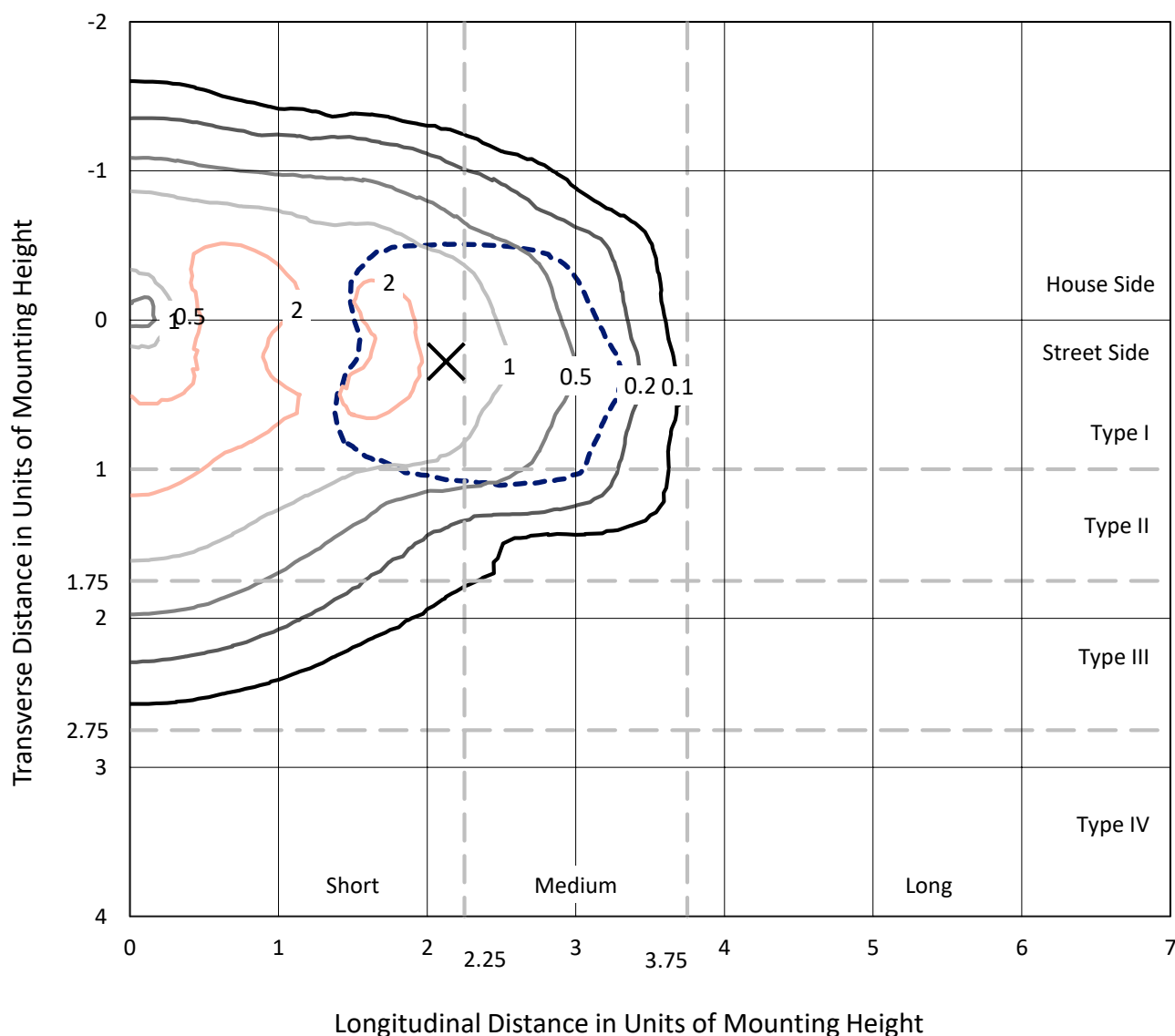
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

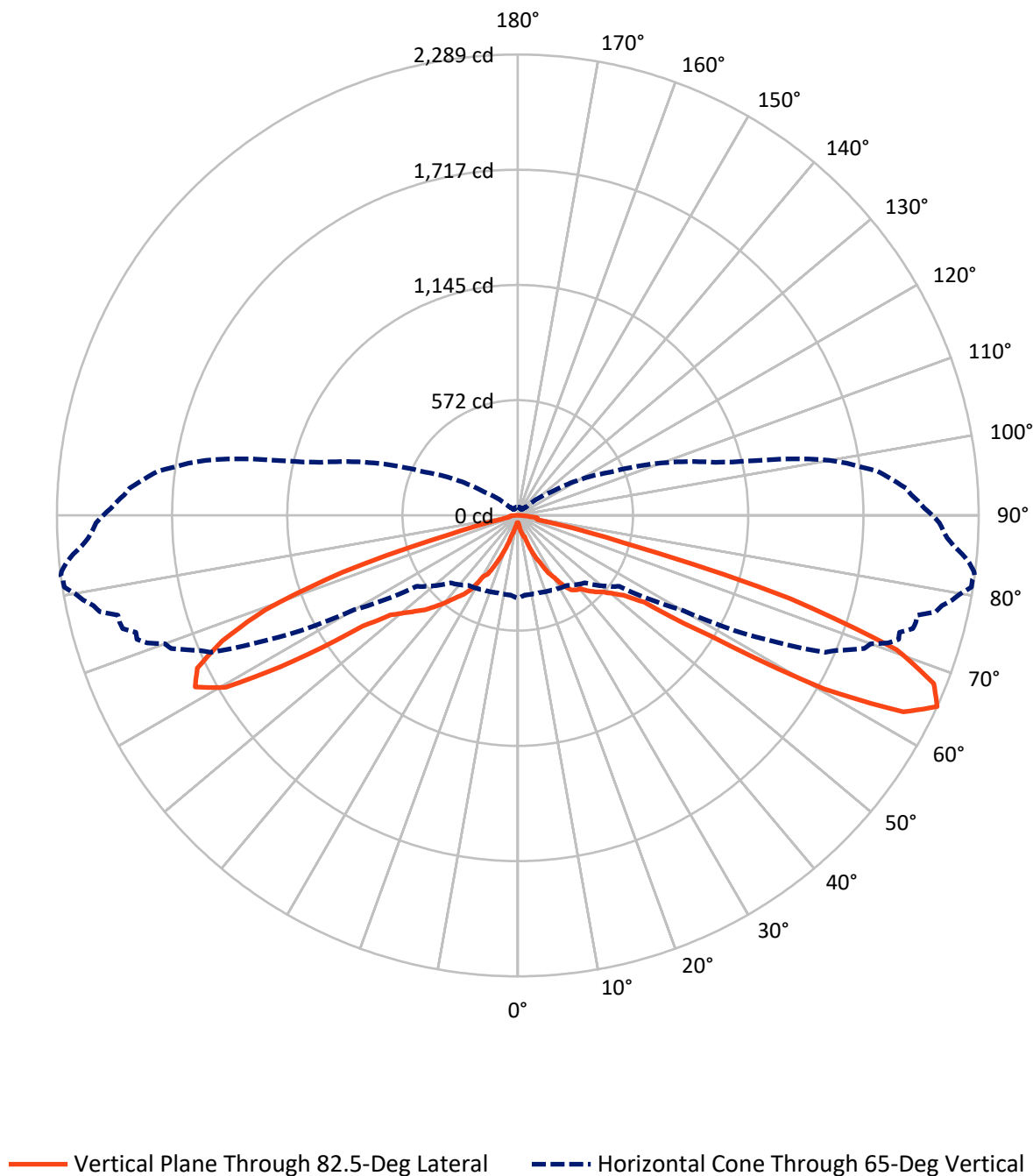


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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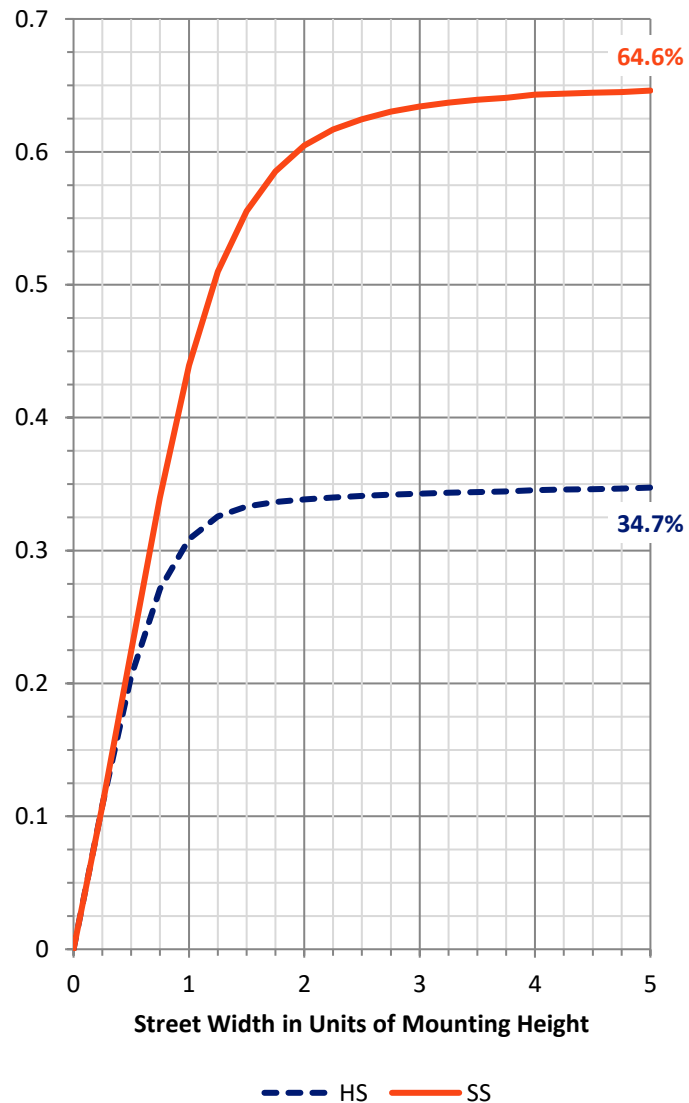
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 796.4    | 0.0    | 796.4  |
|                    | % Fixture | 35.2     | 0.0    | 35.2   |
| <b>Street Side</b> | Lumens    | 1463.6   | 0.0    | 1463.6 |
|                    | % Fixture | 64.8     | 0.0    | 64.8   |
| <b>Total</b>       | Lumens    | 2260.0   | 0.0    | 2260.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.1    | 0.2       |
| 10°-20°   | 33.3   | 1.5       |
| 20°-30°   | 111.7  | 4.9       |
| 30°-40°   | 246.5  | 10.9      |
| 40°-50°   | 389.6  | 17.2      |
| 50°-60°   | 552.7  | 24.5      |
| 60°-70°   | 657.5  | 29.1      |
| 70°-80°   | 222.4  | 9.8       |
| 80°-90°   | 41.2   | 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°    | 2260.0 | 100.0     |
| 0°-180°   | 2260.0 | 100.0     |

**Coefficient of Utilization**



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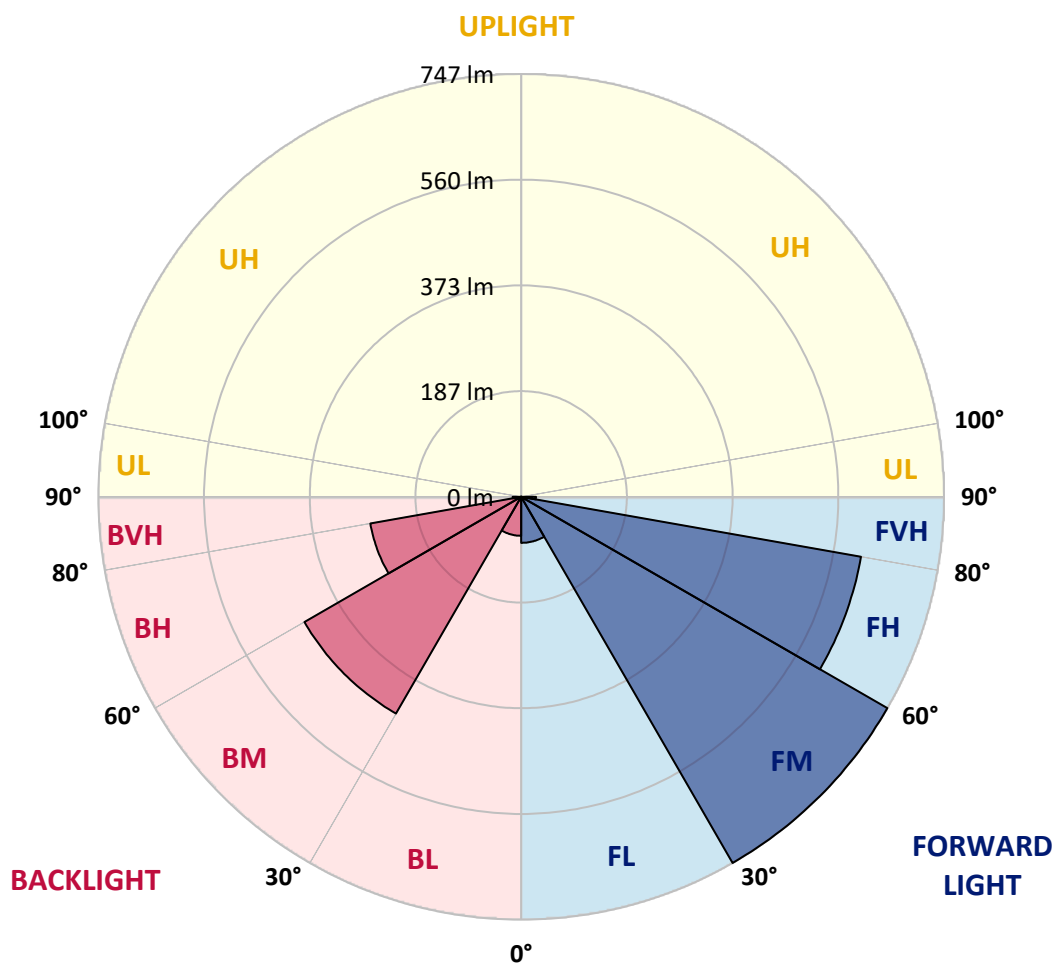
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 81.3   | 3.6       |                         |      |        |
| FM   | (30°-60°)   | 746.7  | 33.0      |                         |      |        |
| FH   | (60°-80°)   | 609.4  | 27.0      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 26.1   | 1.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 68.9   | 3.0       | B0/110                  |      |        |
| BM   | (30°-60°)   | 442.0  | 19.6      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 270.5  | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°    | 36.3  | 36.3  | 36.3  | 36.3  | 36.3  | 36.3  | 36.3  | 36.3   | 36.3   | 36.3   | 36.3   |
| 2.5°  | 51.5  | 51.5  | 51.5  | 54.0  | 60.3  | 60.3  | 59.9  | 60.3   | 59.5   | 58.7   | 57.4   |
| 5°    | 53.6  | 54.9  | 54.0  | 53.6  | 52.7  | 52.3  | 51.9  | 51.5   | 51.5   | 52.3   | 54.4   |
| 7.5°  | 81.9  | 82.3  | 81.9  | 82.7  | 80.2  | 57.8  | 54.0  | 53.6   | 54.9   | 55.3   | 54.4   |
| 10°   | 97.5  | 91.2  | 89.0  | 87.4  | 85.2  | 81.4  | 81.0  | 78.9   | 78.1   | 77.6   | 75.5   |
| 12.5° | 124.5 | 124.5 | 123.6 | 118.2 | 112.7 | 109.7 | 112.3 | 106.3  | 105.5  | 103.0  | 95.4   |
| 15°   | 164.2 | 163.7 | 135.9 | 129.6 | 145.6 | 138.4 | 116.9 | 123.6  | 130.4  | 129.6  | 130.0  |
| 17.5° | 175.6 | 175.6 | 173.4 | 166.7 | 157.0 | 147.3 | 158.2 | 138.4  | 138.0  | 138.4  | 140.5  |
| 20°   | 217.7 | 217.7 | 209.3 | 194.5 | 185.7 | 176.0 | 169.6 | 185.3  | 180.2  | 176.4  | 173.4  |
| 22.5° | 219.4 | 219.4 | 213.5 | 224.9 | 209.3 | 200.0 | 216.9 | 220.3  | 224.5  | 224.9  | 220.3  |
| 25°   | 253.6 | 254.0 | 248.1 | 231.3 | 233.8 | 229.1 | 238.4 | 261.2  | 261.2  | 257.4  | 268.4  |
| 27.5° | 289.5 | 289.9 | 253.2 | 260.4 | 251.9 | 268.8 | 293.7 | 305.1  | 296.7  | 299.6  | 300.5  |
| 30°   | 306.4 | 306.8 | 304.7 | 302.1 | 292.0 | 298.8 | 311.4 | 322.0  | 327.5  | 347.7  | 341.4  |
| 32.5° | 378.1 | 378.5 | 365.0 | 333.8 | 339.7 | 352.4 | 357.9 | 360.4  | 366.7  | 370.1  | 370.1  |
| 35°   | 463.4 | 462.1 | 437.6 | 410.2 | 392.5 | 389.9 | 396.7 | 418.2  | 429.2  | 418.6  | 423.3  |
| 37.5° | 531.7 | 525.8 | 498.4 | 480.7 | 461.7 | 456.6 | 462.1 | 459.1  | 460.0  | 446.5  | 446.5  |
| 40°   | 579.0 | 579.4 | 564.2 | 549.0 | 520.3 | 529.2 | 514.0 | 509.8  | 498.4  | 495.8  | 484.9  |
| 42.5° | 628.8 | 630.9 | 611.5 | 592.5 | 565.5 | 589.5 | 576.0 | 569.7  | 544.4  | 551.5  | 537.6  |
| 45°   | 680.7 | 682.4 | 660.0 | 633.8 | 610.2 | 646.9 | 644.0 | 633.4  | 620.3  | 621.6  | 606.8  |
| 47.5° | 719.1 | 722.5 | 697.1 | 666.3 | 650.3 | 693.8 | 708.5 | 707.7  | 706.0  | 694.2  | 688.3  |
| 50°   | 741.4 | 743.6 | 715.7 | 692.9 | 673.1 | 728.8 | 775.2 | 782.8  | 796.3  | 773.1  | 788.7  |
| 52.5° | 748.6 | 749.9 | 722.0 | 697.1 | 678.1 | 748.2 | 825.8 | 867.6  | 877.3  | 873.1  | 897.6  |
| 55°   | 728.8 | 730.5 | 709.8 | 687.4 | 670.6 | 751.2 | 866.4 | 947.8  | 953.7  | 965.9  | 1014.9 |
| 57.5° | 696.3 | 695.4 | 691.2 | 667.6 | 665.9 | 748.6 | 900.1 | 1049.9 | 1053.3 | 1112.8 | 1200.6 |
| 60°   | 654.5 | 656.2 | 654.1 | 641.9 | 649.5 | 721.6 | 892.9 | 1107.3 | 1146.6 | 1238.1 | 1377.0 |
| 62.5° | 589.1 | 592.1 | 583.2 | 566.3 | 572.2 | 628.4 | 808.5 | 1080.7 | 1172.3 | 1291.3 | 1460.1 |
| 65°   | 411.9 | 397.1 | 397.9 | 408.1 | 425.4 | 473.5 | 614.4 | 936.0  | 1080.3 | 1219.1 | 1441.5 |
| 67.5° | 237.2 | 241.4 | 241.0 | 251.1 | 272.2 | 310.2 | 392.9 | 626.7  | 757.1  | 918.3  | 1197.6 |
| 70°   | 182.3 | 182.3 | 188.2 | 201.7 | 214.8 | 258.7 | 282.3 | 339.3  | 399.2  | 507.7  | 766.8  |
| 72.5° | 137.1 | 136.7 | 142.2 | 154.9 | 181.0 | 236.7 | 330.4 | 234.6  | 242.6  | 263.7  | 414.8  |
| 75°   | 79.8  | 77.6  | 79.8  | 88.6  | 110.6 | 176.8 | 334.2 | 261.2  | 249.4  | 234.2  | 260.8  |
| 77.5° | 41.4  | 41.4  | 43.5  | 45.6  | 56.5  | 90.7  | 241.0 | 319.0  | 308.9  | 283.2  | 265.9  |
| 80°   | 23.6  | 24.5  | 26.2  | 26.2  | 27.4  | 37.6  | 104.7 | 312.3  | 344.8  | 352.8  | 346.0  |
| 82.5° | 11.8  | 13.5  | 18.6  | 18.6  | 18.1  | 19.0  | 39.2  | 183.1  | 249.4  | 309.3  | 416.9  |
| 85°   | 6.8   | 7.2   | 12.2  | 13.5  | 13.1  | 11.4  | 18.1  | 81.9   | 109.7  | 159.5  | 238.4  |
| 87.5° | 2.5   | 3.8   | 5.9   | 6.8   | 7.6   | 5.9   | 10.5  | 23.2   | 31.2   | 43.0   | 52.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   |
| 2.5°  | 57.4   | 55.3   | 56.1   | 54.0   | 50.2   | 48.5   | 48.1   | 47.7   | 47.3   | 44.7   | 44.7   |
| 5°    | 56.1   | 56.5   | 57.8   | 58.2   | 58.2   | 58.7   | 59.5   | 59.1   | 59.5   | 58.7   | 58.2   |
| 7.5°  | 53.6   | 52.3   | 51.1   | 50.2   | 50.2   | 50.2   | 50.2   | 50.6   | 52.3   | 54.9   | 56.1   |
| 10°   | 75.1   | 75.1   | 75.5   | 74.7   | 76.0   | 75.5   | 75.5   | 75.1   | 75.1   | 75.5   | 75.5   |
| 12.5° | 83.6   | 81.0   | 80.6   | 79.8   | 80.2   | 79.8   | 80.2   | 82.3   | 81.9   | 82.3   | 81.4   |
| 15°   | 132.5  | 132.1  | 131.7  | 129.6  | 122.8  | 116.9  | 115.6  | 114.8  | 110.1  | 108.5  | 107.6  |
| 17.5° | 140.1  | 138.0  | 140.1  | 139.3  | 137.1  | 135.0  | 133.4  | 130.0  | 120.3  | 120.3  | 119.0  |
| 20°   | 176.4  | 181.5  | 183.1  | 192.4  | 191.2  | 194.5  | 194.5  | 193.3  | 193.7  | 192.4  | 187.4  |
| 22.5° | 214.4  | 209.3  | 206.4  | 211.0  | 211.8  | 209.7  | 214.4  | 213.5  | 224.1  | 219.0  | 233.4  |
| 25°   | 269.7  | 280.6  | 287.4  | 281.0  | 278.1  | 279.4  | 283.2  | 278.5  | 281.0  | 279.4  | 280.2  |
| 27.5° | 300.9  | 306.4  | 302.6  | 302.1  | 303.8  | 305.1  | 299.6  | 299.6  | 299.2  | 309.7  | 319.9  |
| 30°   | 350.3  | 345.6  | 345.6  | 348.1  | 351.9  | 351.9  | 347.3  | 346.0  | 350.7  | 346.5  | 351.5  |
| 32.5° | 368.8  | 366.3  | 375.2  | 404.3  | 405.5  | 399.6  | 400.1  | 405.5  | 406.0  | 411.9  | 412.7  |
| 35°   | 418.2  | 425.4  | 430.4  | 431.7  | 426.6  | 426.2  | 431.7  | 434.7  | 440.6  | 441.0  | 446.0  |
| 37.5° | 451.5  | 454.5  | 454.9  | 453.2  | 445.6  | 450.7  | 453.6  | 457.4  | 457.4  | 461.7  | 459.6  |
| 40°   | 488.7  | 489.9  | 489.5  | 476.0  | 473.9  | 479.8  | 481.5  | 480.2  | 479.8  | 480.7  | 479.0  |
| 42.5° | 537.2  | 534.7  | 522.0  | 511.9  | 514.0  | 514.0  | 511.5  | 505.6  | 508.5  | 502.2  | 499.2  |
| 45°   | 600.5  | 594.2  | 573.9  | 565.1  | 565.5  | 557.5  | 547.8  | 546.5  | 538.5  | 530.9  | 538.0  |
| 47.5° | 686.2  | 666.3  | 646.5  | 638.5  | 630.0  | 617.4  | 600.9  | 594.6  | 582.4  | 575.6  | 576.4  |
| 50°   | 788.7  | 759.2  | 746.1  | 747.8  | 730.9  | 707.3  | 693.8  | 674.3  | 652.0  | 649.9  | 640.6  |
| 52.5° | 889.6  | 873.5  | 877.3  | 876.1  | 855.4  | 833.4  | 821.6  | 806.4  | 782.0  | 771.0  | 744.8  |
| 55°   | 993.8  | 1001.8 | 1024.2 | 1023.3 | 1013.2 | 1010.3 | 1004.3 | 991.3  | 995.1  | 967.2  | 934.7  |
| 57.5° | 1193.0 | 1233.1 | 1286.7 | 1307.3 | 1305.2 | 1313.7 | 1334.3 | 1356.7 | 1374.0 | 1352.1 | 1355.4 |
| 60°   | 1431.4 | 1515.8 | 1595.6 | 1631.0 | 1690.9 | 1718.8 | 1765.2 | 1825.6 | 1866.5 | 1836.1 | 1888.4 |
| 62.5° | 1552.9 | 1674.1 | 1734.8 | 1776.2 | 1855.5 | 1895.2 | 1955.9 | 2024.3 | 2041.2 | 2064.4 | 2122.6 |
| 65°   | 1565.6 | 1671.9 | 1715.8 | 1780.4 | 1843.7 | 1865.2 | 1945.8 | 1989.7 | 1983.4 | 2041.2 | 2047.5 |
| 67.5° | 1375.7 | 1466.4 | 1536.1 | 1631.0 | 1679.1 | 1728.9 | 1795.6 | 1804.0 | 1830.6 | 1877.5 | 1844.5 |
| 70°   | 977.3  | 1124.2 | 1218.3 | 1328.0 | 1404.0 | 1484.2 | 1547.5 | 1552.9 | 1596.0 | 1610.8 | 1593.9 |
| 72.5° | 528.8  | 672.2  | 785.3  | 920.4  | 1009.4 | 1101.0 | 1158.4 | 1191.7 | 1208.6 | 1186.2 | 1228.4 |
| 75°   | 297.9  | 356.6  | 429.6  | 499.6  | 570.1  | 605.1  | 631.7  | 644.4  | 616.5  | 608.1  | 607.3  |
| 77.5° | 251.9  | 249.0  | 254.9  | 242.2  | 245.6  | 236.7  | 238.4  | 216.9  | 202.1  | 212.7  | 211.8  |
| 80°   | 309.3  | 281.5  | 249.0  | 205.1  | 175.6  | 149.4  | 134.6  | 130.4  | 135.9  | 150.2  | 160.4  |
| 82.5° | 411.0  | 406.0  | 352.4  | 296.2  | 249.0  | 199.2  | 161.2  | 139.3  | 141.8  | 151.5  | 170.1  |
| 85°   | 282.3  | 294.6  | 261.2  | 244.8  | 201.3  | 168.8  | 139.3  | 111.8  | 102.5  | 97.9   | 93.3   |
| 87.5° | 57.0   | 49.8   | 44.7   | 42.2   | 36.7   | 32.5   | 29.1   | 26.6   | 27.0   | 25.3   | 24.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 82.5°  | 83°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   |
| 2.5°  | 42.2   | 40.1   | 40.5   | 39.2   | 38.4   | 38.0   | 39.2   | 39.2   | 38.8   | 38.4   | 36.7   |
| 5°    | 57.4   | 57.0   | 55.3   | 53.2   | 50.6   | 46.0   | 43.5   | 41.4   | 40.1   | 39.7   | 38.8   |
| 7.5°  | 57.0   | 56.5   | 56.1   | 56.1   | 56.1   | 55.7   | 55.7   | 54.4   | 53.2   | 49.4   | 40.9   |
| 10°   | 75.5   | 77.6   | 82.3   | 84.8   | 84.8   | 84.4   | 81.9   | 81.4   | 81.0   | 80.6   | 77.2   |
| 12.5° | 81.4   | 79.3   | 79.3   | 79.8   | 82.7   | 85.7   | 87.4   | 86.5   | 86.5   | 86.5   | 85.2   |
| 15°   | 107.2  | 107.2  | 106.8  | 106.8  | 106.8  | 107.6  | 107.2  | 109.7  | 111.4  | 110.6  | 111.0  |
| 17.5° | 119.0  | 120.7  | 119.8  | 119.8  | 117.3  | 112.7  | 121.5  | 111.0  | 110.6  | 124.5  | 136.3  |
| 20°   | 180.2  | 179.8  | 177.2  | 176.4  | 174.7  | 173.9  | 175.1  | 175.6  | 176.0  | 175.6  | 178.1  |
| 22.5° | 232.1  | 224.9  | 219.4  | 218.2  | 223.7  | 225.8  | 223.2  | 223.7  | 222.0  | 222.4  | 218.6  |
| 25°   | 282.3  | 276.0  | 282.3  | 275.6  | 270.9  | 266.3  | 265.9  | 263.3  | 266.7  | 268.4  | 273.5  |
| 27.5° | 327.0  | 330.4  | 330.0  | 333.8  | 327.9  | 322.8  | 323.2  | 321.1  | 324.9  | 329.2  | 324.5  |
| 30°   | 352.4  | 355.3  | 353.6  | 349.0  | 351.1  | 352.4  | 360.4  | 359.1  | 357.4  | 348.1  | 343.9  |
| 32.5° | 416.1  | 414.8  | 411.4  | 414.4  | 424.1  | 429.2  | 416.5  | 413.6  | 414.0  | 419.5  | 416.1  |
| 35°   | 443.5  | 443.5  | 444.4  | 457.4  | 460.8  | 451.5  | 451.1  | 453.6  | 459.1  | 449.0  | 443.1  |
| 37.5° | 457.4  | 460.4  | 471.8  | 475.2  | 465.0  | 465.0  | 472.6  | 470.5  | 465.9  | 464.6  | 470.1  |
| 40°   | 478.1  | 490.4  | 494.2  | 484.0  | 484.5  | 491.6  | 484.0  | 478.5  | 482.3  | 495.0  | 495.4  |
| 42.5° | 510.6  | 515.7  | 505.1  | 503.4  | 513.6  | 504.7  | 504.7  | 512.3  | 516.9  | 516.1  | 520.7  |
| 45°   | 542.3  | 533.0  | 526.7  | 535.9  | 529.6  | 522.4  | 539.3  | 541.0  | 541.0  | 545.6  | 552.4  |
| 47.5° | 572.2  | 557.0  | 563.4  | 559.6  | 545.6  | 565.1  | 568.8  | 568.4  | 571.0  | 579.0  | 576.9  |
| 50°   | 616.5  | 606.0  | 603.9  | 584.5  | 596.3  | 603.9  | 603.5  | 608.5  | 613.2  | 610.6  | 629.2  |
| 52.5° | 707.3  | 703.5  | 668.0  | 656.2  | 662.1  | 655.4  | 662.1  | 658.7  | 658.3  | 673.9  | 675.2  |
| 55°   | 903.9  | 882.4  | 820.4  | 817.8  | 785.8  | 759.2  | 768.0  | 759.6  | 763.4  | 773.5  | 780.7  |
| 57.5° | 1354.2 | 1290.5 | 1273.2 | 1264.3 | 1201.4 | 1129.7 | 1122.1 | 1132.2 | 1130.9 | 1114.9 | 1141.5 |
| 60°   | 1889.3 | 1844.5 | 1892.2 | 1857.6 | 1808.7 | 1785.0 | 1750.4 | 1749.2 | 1734.4 | 1722.2 | 1694.3 |
| 62.5° | 2085.1 | 2141.6 | 2186.4 | 2188.0 | 2199.0 | 2186.8 | 2169.5 | 2148.8 | 2151.8 | 2117.6 | 2106.6 |
| 65°   | 2047.1 | 2130.7 | 2153.9 | 2199.4 | 2233.6 | 2280.9 | 2281.7 | 2289.3 | 2282.6 | 2255.6 | 2217.6 |
| 67.5° | 1920.5 | 1960.6 | 1986.3 | 2040.3 | 2108.3 | 2170.7 | 2221.8 | 2229.4 | 2234.0 | 2218.4 | 2162.3 |
| 70°   | 1667.7 | 1684.6 | 1720.9 | 1775.3 | 1857.6 | 1919.7 | 1989.3 | 1996.5 | 2011.2 | 1994.8 | 1955.5 |
| 72.5° | 1234.8 | 1229.7 | 1248.7 | 1286.2 | 1325.1 | 1368.1 | 1412.4 | 1415.4 | 1447.9 | 1415.4 | 1370.2 |
| 75°   | 573.9  | 559.1  | 546.9  | 544.8  | 549.4  | 562.1  | 560.8  | 544.0  | 539.3  | 500.9  | 473.5  |
| 77.5° | 196.6  | 191.6  | 181.5  | 165.8  | 148.1  | 126.6  | 111.0  | 103.4  | 96.2   | 85.7   | 81.9   |
| 80°   | 173.4  | 184.8  | 183.6  | 171.3  | 150.7  | 126.2  | 103.0  | 91.6   | 81.9   | 65.8   | 59.5   |
| 82.5° | 200.0  | 225.3  | 244.3  | 231.3  | 198.8  | 161.6  | 117.3  | 97.9   | 80.2   | 54.4   | 44.3   |
| 85°   | 95.8   | 94.5   | 103.8  | 88.2   | 83.6   | 61.2   | 46.0   | 38.8   | 35.4   | 29.1   | 27.0   |
| 87.5° | 25.3   | 25.7   | 26.6   | 26.6   | 25.7   | 24.1   | 23.6   | 22.8   | 22.4   | 20.7   | 19.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: UTLD-E01-LED-E-U-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 86°    | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   |
| 2.5°  | 36.7   | 36.3   | 36.3   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 35.4   | 35.4   | 35.4   |
| 5°    | 39.2   | 39.2   | 38.8   | 37.6   | 36.7   | 36.7   | 36.3   | 36.3   | 35.9   | 35.9   | 35.9   |
| 7.5°  | 37.6   | 37.1   | 36.7   | 37.1   | 38.0   | 38.4   | 38.4   | 38.0   | 37.6   | 38.0   | 38.0   |
| 10°   | 65.4   | 60.8   | 59.5   | 59.1   | 58.2   | 58.2   | 57.8   | 57.0   | 55.7   | 55.3   | 55.3   |
| 12.5° | 83.1   | 67.5   | 65.4   | 65.0   | 64.1   | 63.7   | 63.3   | 61.2   | 60.3   | 61.2   | 61.6   |
| 15°   | 110.6  | 104.7  | 92.0   | 92.4   | 92.8   | 92.4   | 92.4   | 91.6   | 90.3   | 89.0   | 89.0   |
| 17.5° | 127.9  | 132.5  | 117.3  | 122.0  | 118.6  | 122.4  | 120.3  | 118.6  | 121.1  | 111.4  | 114.4  |
| 20°   | 176.8  | 176.8  | 170.1  | 159.9  | 161.2  | 162.9  | 165.0  | 164.6  | 162.5  | 158.7  | 157.0  |
| 22.5° | 222.0  | 219.4  | 222.0  | 215.6  | 213.5  | 216.5  | 203.4  | 210.2  | 208.0  | 210.6  | 211.0  |
| 25°   | 275.6  | 276.4  | 267.5  | 259.9  | 253.6  | 254.5  | 259.5  | 258.3  | 251.9  | 254.0  | 260.4  |
| 27.5° | 319.9  | 323.2  | 329.6  | 320.7  | 315.2  | 313.5  | 311.9  | 313.1  | 322.0  | 321.1  | 313.5  |
| 30°   | 348.1  | 343.5  | 342.2  | 346.5  | 353.6  | 348.1  | 355.3  | 344.3  | 341.0  | 351.5  | 351.1  |
| 32.5° | 403.0  | 409.8  | 416.1  | 414.8  | 415.7  | 423.3  | 419.0  | 419.9  | 416.9  | 414.0  | 419.9  |
| 35°   | 450.3  | 450.7  | 446.5  | 452.4  | 450.7  | 452.8  | 458.3  | 458.7  | 460.4  | 459.6  | 460.0  |
| 37.5° | 469.7  | 473.1  | 474.7  | 464.2  | 475.6  | 476.4  | 481.5  | 485.7  | 494.2  | 500.5  | 503.4  |
| 40°   | 500.9  | 498.8  | 495.0  | 506.4  | 495.8  | 502.6  | 514.8  | 522.9  | 532.1  | 544.8  | 549.0  |
| 42.5° | 525.8  | 525.8  | 532.6  | 529.6  | 542.7  | 540.2  | 554.1  | 567.6  | 579.4  | 582.4  | 605.1  |
| 45°   | 552.8  | 565.5  | 566.7  | 573.5  | 581.9  | 597.5  | 598.8  | 609.8  | 622.9  | 639.3  | 646.9  |
| 47.5° | 593.7  | 595.0  | 610.6  | 619.5  | 631.3  | 644.8  | 652.4  | 656.2  | 672.7  | 686.2  | 694.6  |
| 50°   | 627.9  | 649.5  | 658.7  | 673.1  | 688.7  | 695.4  | 707.3  | 716.5  | 722.9  | 731.7  | 737.2  |
| 52.5° | 691.7  | 706.0  | 726.7  | 740.6  | 756.2  | 767.6  | 777.7  | 794.6  | 795.0  | 794.2  | 800.1  |
| 55°   | 798.0  | 827.5  | 860.0  | 870.6  | 900.5  | 914.9  | 932.6  | 942.7  | 957.9  | 942.7  | 946.5  |
| 57.5° | 1160.5 | 1207.8 | 1233.9 | 1268.9 | 1296.4 | 1317.0 | 1322.1 | 1334.3 | 1356.3 | 1353.8 | 1339.8 |
| 60°   | 1725.5 | 1731.0 | 1751.7 | 1778.3 | 1776.6 | 1800.7 | 1785.5 | 1804.0 | 1771.1 | 1767.3 | 1733.1 |
| 62.5° | 2086.8 | 2075.8 | 2073.7 | 2070.7 | 2061.0 | 2043.3 | 2020.5 | 2002.4 | 1973.3 | 1931.1 | 1901.9 |
| 65°   | 2170.7 | 2136.6 | 2113.4 | 2095.2 | 2059.3 | 2021.4 | 1991.0 | 1957.2 | 1933.2 | 1889.3 | 1845.4 |
| 67.5° | 2105.3 | 2063.6 | 2021.8 | 1967.3 | 1928.1 | 1881.3 | 1836.1 | 1806.6 | 1762.3 | 1737.8 | 1666.5 |
| 70°   | 1910.0 | 1834.8 | 1764.8 | 1694.3 | 1660.1 | 1597.3 | 1555.1 | 1533.5 | 1489.2 | 1462.2 | 1409.5 |
| 72.5° | 1334.3 | 1273.6 | 1171.5 | 1117.9 | 1106.5 | 1060.9 | 1042.3 | 1032.2 | 1010.7 | 986.2  | 958.8  |
| 75°   | 450.7  | 430.0  | 404.3  | 352.4  | 366.7  | 346.5  | 333.4  | 352.4  | 345.2  | 345.6  | 332.1  |
| 77.5° | 78.9   | 76.4   | 73.0   | 69.2   | 67.9   | 69.2   | 67.5   | 70.1   | 70.5   | 71.7   | 70.5   |
| 80°   | 56.5   | 53.6   | 51.5   | 49.8   | 48.5   | 49.0   | 47.7   | 48.1   | 47.7   | 48.1   | 47.7   |
| 82.5° | 40.5   | 38.8   | 36.7   | 35.4   | 35.0   | 35.4   | 34.6   | 35.9   | 36.7   | 38.0   | 39.2   |
| 85°   | 25.3   | 24.9   | 23.6   | 23.2   | 23.2   | 22.8   | 23.2   | 24.9   | 26.6   | 28.7   | 30.0   |
| 87.5° | 18.1   | 18.1   | 17.3   | 18.1   | 18.1   | 19.0   | 20.3   | 22.4   | 24.5   | 26.6   | 29.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: UTLD-E01-LED-E-U-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 97°    | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°  | 125°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3  | 36.3  |
| 2.5°  | 35.4   | 35.4   | 35.4   | 35.4   | 35.4   | 35.4   | 35.4   | 35.0   | 35.0   | 35.4  | 35.4  |
| 5°    | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 37.1  | 55.7  |
| 7.5°  | 37.6   | 37.6   | 37.6   | 37.1   | 37.1   | 37.1   | 37.6   | 38.0   | 37.6   | 53.2  | 36.3  |
| 10°   | 56.1   | 57.0   | 57.8   | 57.4   | 57.8   | 58.2   | 58.7   | 58.7   | 64.1   | 56.5  | 38.8  |
| 12.5° | 62.0   | 62.0   | 62.5   | 62.0   | 61.6   | 67.5   | 79.8   | 79.8   | 80.2   | 62.5  | 62.0  |
| 15°   | 87.8   | 86.5   | 87.8   | 91.6   | 103.4  | 105.1  | 105.5  | 105.1  | 100.0  | 93.3  | 89.5  |
| 17.5° | 105.5  | 100.4  | 105.9  | 115.6  | 105.1  | 104.7  | 98.3   | 93.7   | 95.4   | 116.5 | 120.7 |
| 20°   | 159.5  | 165.4  | 168.4  | 173.4  | 169.6  | 159.5  | 155.7  | 156.1  | 155.3  | 159.1 | 134.6 |
| 22.5° | 208.5  | 216.1  | 215.2  | 213.1  | 207.2  | 213.5  | 216.1  | 200.0  | 197.1  | 209.7 | 217.3 |
| 25°   | 270.9  | 267.1  | 268.0  | 263.7  | 261.6  | 262.5  | 265.0  | 277.3  | 276.8  | 300.0 | 241.8 |
| 27.5° | 323.7  | 328.7  | 325.4  | 325.8  | 333.4  | 328.3  | 336.8  | 336.8  | 354.1  | 327.9 | 324.1 |
| 30°   | 345.6  | 350.7  | 360.4  | 362.9  | 370.5  | 375.2  | 374.3  | 377.3  | 378.5  | 396.3 | 353.6 |
| 32.5° | 431.3  | 426.2  | 433.8  | 445.2  | 449.4  | 453.2  | 465.0  | 463.8  | 457.0  | 438.9 | 403.8 |
| 35°   | 470.5  | 481.5  | 481.5  | 482.8  | 501.3  | 502.6  | 501.3  | 508.5  | 503.0  | 491.2 | 425.8 |
| 37.5° | 509.3  | 513.6  | 527.1  | 529.2  | 526.2  | 540.2  | 540.6  | 536.8  | 542.3  | 520.7 | 466.3 |
| 40°   | 555.3  | 561.3  | 563.4  | 575.2  | 569.3  | 567.6  | 583.6  | 577.7  | 573.9  | 547.8 | 478.5 |
| 42.5° | 607.7  | 606.0  | 609.4  | 610.2  | 616.5  | 609.8  | 609.4  | 622.4  | 612.3  | 570.1 | 477.3 |
| 45°   | 660.4  | 653.2  | 649.9  | 650.3  | 649.5  | 652.8  | 642.3  | 649.5  | 650.7  | 581.9 | 466.3 |
| 47.5° | 693.8  | 703.0  | 694.6  | 687.4  | 682.8  | 683.2  | 679.8  | 663.4  | 676.5  | 585.7 | 449.0 |
| 50°   | 745.7  | 744.8  | 744.0  | 727.9  | 723.3  | 714.4  | 710.2  | 698.4  | 689.1  | 573.5 | 430.0 |
| 52.5° | 803.9  | 802.2  | 804.3  | 790.4  | 772.7  | 761.7  | 749.0  | 738.1  | 716.5  | 561.3 | 408.9 |
| 55°   | 947.8  | 944.0  | 932.6  | 928.8  | 896.3  | 868.5  | 833.9  | 812.8  | 793.8  | 560.4 | 384.4 |
| 57.5° | 1335.6 | 1318.3 | 1288.8 | 1266.0 | 1204.8 | 1146.1 | 1092.1 | 1030.5 | 987.9  | 607.3 | 365.9 |
| 60°   | 1693.5 | 1671.5 | 1633.5 | 1560.1 | 1496.4 | 1393.4 | 1295.5 | 1214.5 | 1140.2 | 656.6 | 344.8 |
| 62.5° | 1837.8 | 1791.8 | 1735.7 | 1663.1 | 1554.6 | 1455.0 | 1321.3 | 1227.6 | 1133.9 | 627.5 | 291.2 |
| 65°   | 1801.9 | 1724.7 | 1655.9 | 1574.5 | 1470.7 | 1346.2 | 1209.9 | 1097.2 | 1015.7 | 506.8 | 202.1 |
| 67.5° | 1631.0 | 1560.1 | 1491.3 | 1395.5 | 1280.8 | 1141.9 | 1025.0 | 908.6  | 835.6  | 360.8 | 112.7 |
| 70°   | 1365.2 | 1311.1 | 1227.6 | 1134.7 | 1030.5 | 904.3  | 785.3  | 684.1  | 611.5  | 220.3 | 54.9  |
| 72.5° | 938.5  | 892.5  | 857.5  | 778.6  | 673.1  | 559.1  | 492.0  | 413.1  | 369.7  | 112.7 | 36.3  |
| 75°   | 339.3  | 343.1  | 316.1  | 302.1  | 267.5  | 215.6  | 189.9  | 159.9  | 139.7  | 51.1  | 35.9  |
| 77.5° | 78.9   | 77.6   | 81.9   | 84.0   | 78.1   | 71.3   | 64.1   | 59.1   | 55.3   | 40.1  | 38.0  |
| 80°   | 48.1   | 47.7   | 47.3   | 46.8   | 46.4   | 46.0   | 45.6   | 44.7   | 43.9   | 39.2  | 38.4  |
| 82.5° | 40.1   | 40.5   | 40.5   | 40.5   | 40.9   | 40.9   | 41.4   | 41.4   | 40.9   | 39.2  | 38.8  |
| 85°   | 31.2   | 32.5   | 33.8   | 35.0   | 36.7   | 38.4   | 39.2   | 39.7   | 39.7   | 38.4  | 38.4  |
| 87.5° | 31.2   | 32.9   | 35.0   | 37.6   | 40.1   | 42.2   | 43.9   | 44.7   | 44.7   | 38.8  | 38.0  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 36.3  | 36.3  | 36.3  | 36.3  | 36.3  | 36.3  |
| 2.5°  | 37.6  | 36.7  | 37.1  | 40.1  | 38.4  | 37.6  |
| 5°    | 56.5  | 43.9  | 36.7  | 36.3  | 35.9  | 35.4  |
| 7.5°  | 37.6  | 37.6  | 38.4  | 47.7  | 52.7  | 55.7  |
| 10°   | 42.2  | 60.3  | 63.3  | 62.0  | 62.5  | 61.6  |
| 12.5° | 85.2  | 64.1  | 67.1  | 75.5  | 87.8  | 87.8  |
| 15°   | 92.4  | 112.7 | 91.6  | 92.4  | 91.2  | 91.2  |
| 17.5° | 121.1 | 120.3 | 97.5  | 117.7 | 119.4 | 119.4 |
| 20°   | 153.2 | 138.8 | 144.3 | 126.6 | 124.5 | 124.1 |
| 22.5° | 165.4 | 171.3 | 152.8 | 155.3 | 155.3 | 154.5 |
| 25°   | 220.3 | 192.9 | 180.2 | 160.4 | 178.1 | 174.3 |
| 27.5° | 256.6 | 213.5 | 211.0 | 189.5 | 186.9 | 185.3 |
| 30°   | 304.3 | 267.5 | 225.3 | 215.6 | 215.2 | 213.5 |
| 32.5° | 330.4 | 278.9 | 243.9 | 222.4 | 238.0 | 237.2 |
| 35°   | 360.0 | 290.8 | 258.3 | 242.2 | 231.3 | 229.6 |
| 37.5° | 361.7 | 295.8 | 250.2 | 246.0 | 242.6 | 241.4 |
| 40°   | 366.3 | 285.7 | 249.4 | 245.6 | 242.2 | 241.0 |
| 42.5° | 352.8 | 271.8 | 237.2 | 223.2 | 216.9 | 215.2 |
| 45°   | 334.2 | 250.2 | 211.8 | 196.2 | 188.6 | 186.9 |
| 47.5° | 312.3 | 230.8 | 184.8 | 170.5 | 159.9 | 157.0 |
| 50°   | 289.5 | 205.5 | 158.2 | 140.9 | 130.8 | 127.4 |
| 52.5° | 264.6 | 173.4 | 128.7 | 113.9 | 103.4 | 101.3 |
| 55°   | 234.6 | 139.7 | 100.4 | 90.3  | 84.0  | 82.3  |
| 57.5° | 195.8 | 105.1 | 76.8  | 72.2  | 69.2  | 68.4  |
| 60°   | 150.2 | 73.8  | 57.8  | 59.1  | 57.8  | 58.7  |
| 62.5° | 103.0 | 49.0  | 44.3  | 48.1  | 48.5  | 48.5  |
| 65°   | 59.9  | 35.4  | 35.9  | 40.5  | 40.9  | 41.4  |
| 67.5° | 36.7  | 29.5  | 31.2  | 35.9  | 36.3  | 36.3  |
| 70°   | 30.8  | 27.4  | 29.1  | 33.8  | 34.2  | 34.2  |
| 72.5° | 30.0  | 27.4  | 28.3  | 32.9  | 33.3  | 33.8  |
| 75°   | 30.4  | 27.0  | 28.3  | 32.9  | 32.5  | 32.1  |
| 77.5° | 31.2  | 27.0  | 27.9  | 32.9  | 33.3  | 31.2  |
| 80°   | 30.8  | 26.2  | 26.6  | 35.0  | 33.8  | 28.7  |
| 82.5° | 29.5  | 24.5  | 23.6  | 37.1  | 30.0  | 25.7  |
| 85°   | 27.4  | 21.9  | 19.4  | 40.5  | 29.5  | 18.6  |
| 87.5° | 15.6  | 18.1  | 14.3  | 35.4  | 27.0  | 14.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)