

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: P266411

Luminaire Tested: **UTLD-AF24-60-D-U-T3-7027**

Issue Date: 5/28/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P266411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-10-U0)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-60-D-U-T3-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN  
UPPER HEMISPHERE NOT REPORTED.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5676.9 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 64  
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

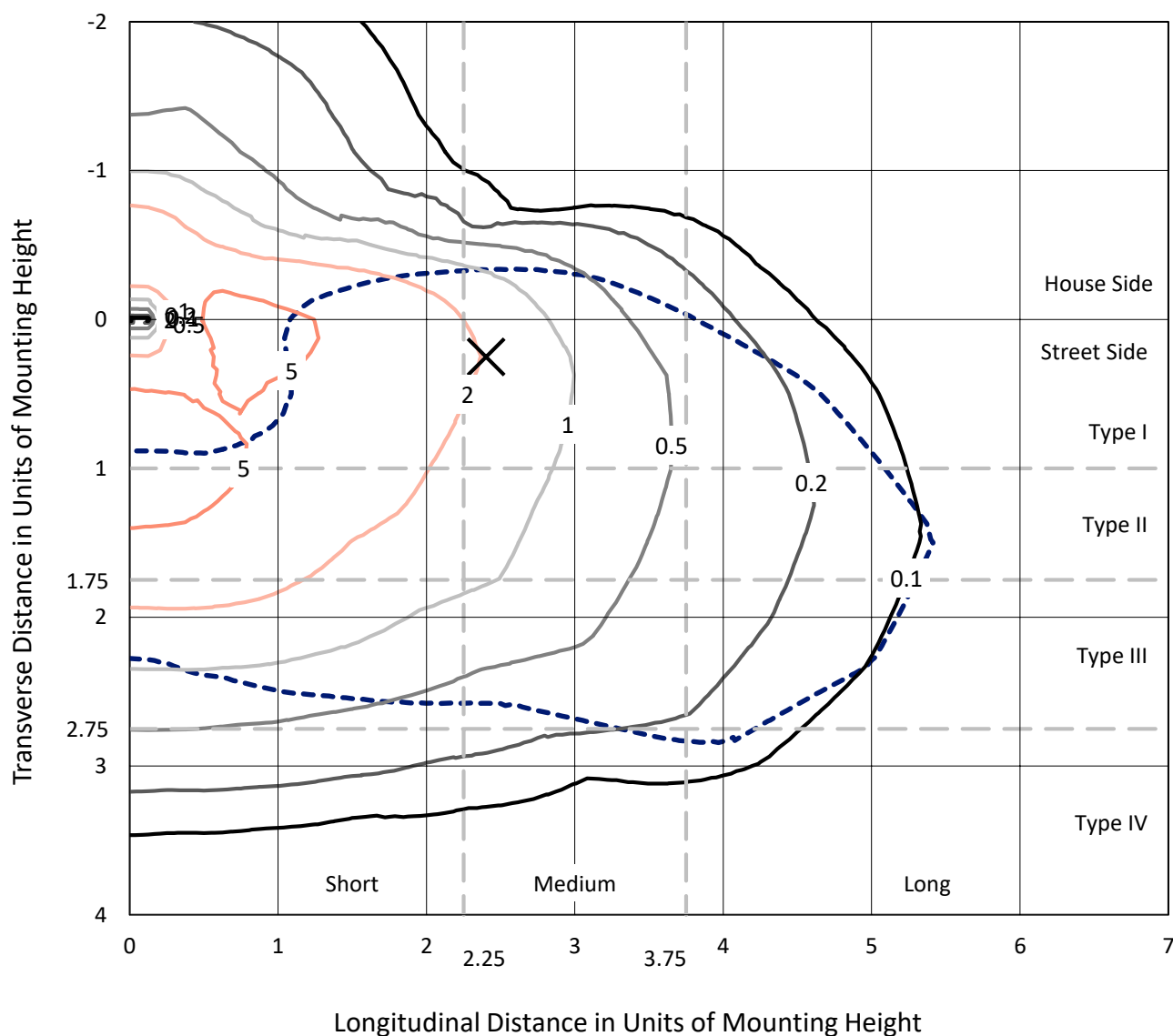


REPORT NUMBER: P266411

CATALOG NUMBER: UTLD-AF24-60-D-U-T3-7027

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

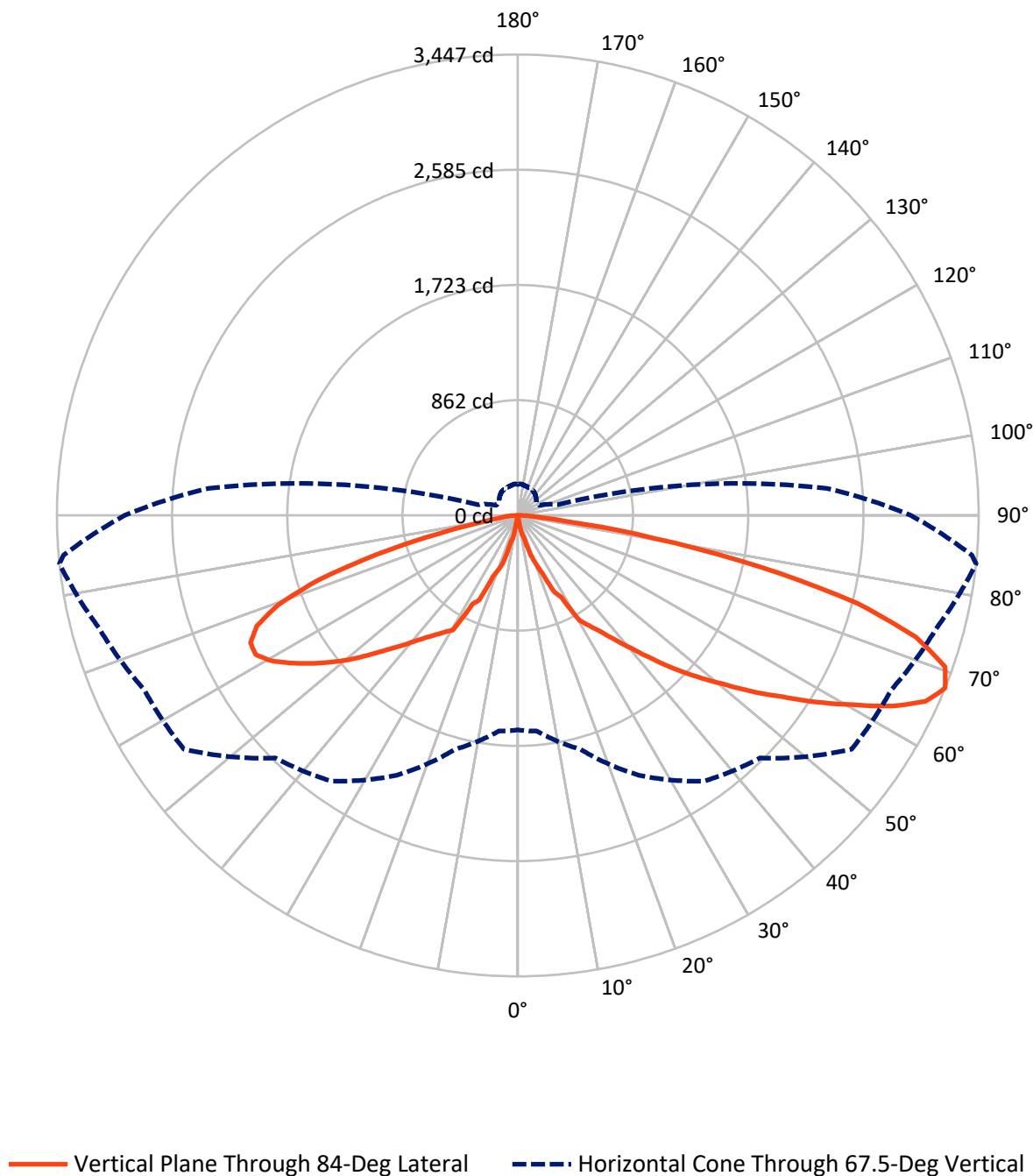


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
Type III - Medium - Non-Cutoff

REPORT NUMBER: P266411

CATALOG NUMBER: UTLD-AF24-60-D-U-T3-7027

## Luminous Intensity Polar Plot



REPORT NUMBER: P266411

CATALOG NUMBER: UTLD-AF24-60-D-U-T3-7027

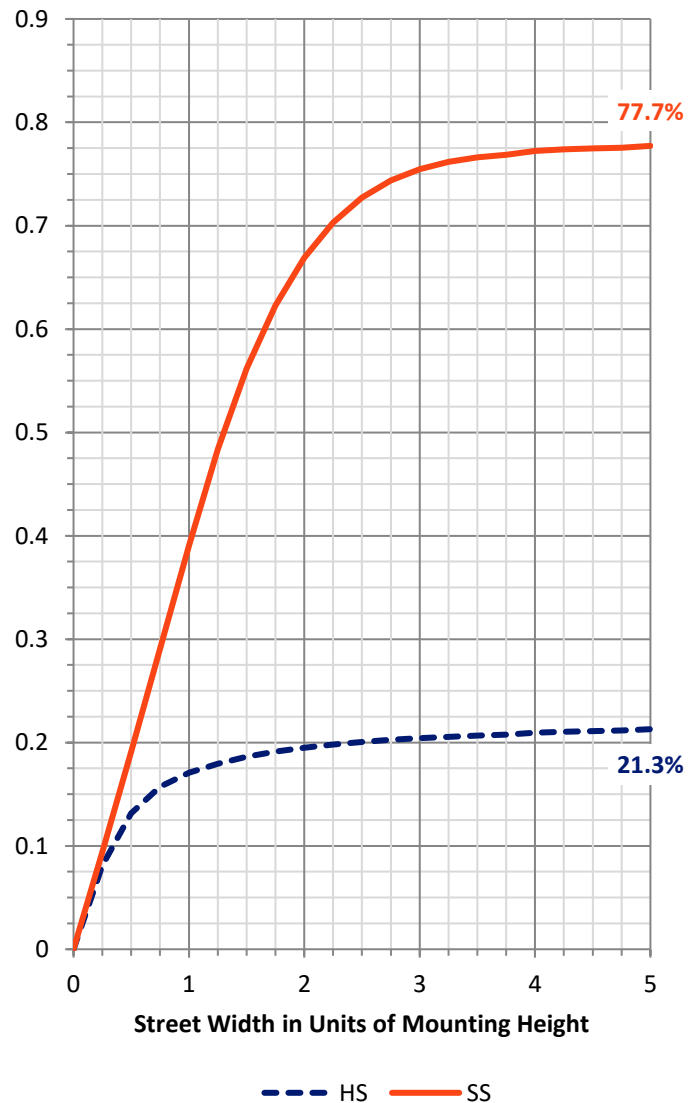
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1240.9   | 0.0    | 1240.9 |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 4436.0   | 0.0    | 4436.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 5676.9   | 0.0    | 5676.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.7    | 0.1       |
| 10°-20°   | 68.2   | 1.2       |
| 20°-30°   | 251.2  | 4.4       |
| 30°-40°   | 509.9  | 9.0       |
| 40°-50°   | 843.7  | 14.9      |
| 50°-60°   | 1280.5 | 22.6      |
| 60°-70°   | 1527.5 | 26.9      |
| 70°-80°   | 1023.1 | 18.0      |
| 80°-90°   | 168.0  | 3.0       |
| 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°    | 5676.9 | 100.0     |
| 0°-180°   | 5676.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P266411

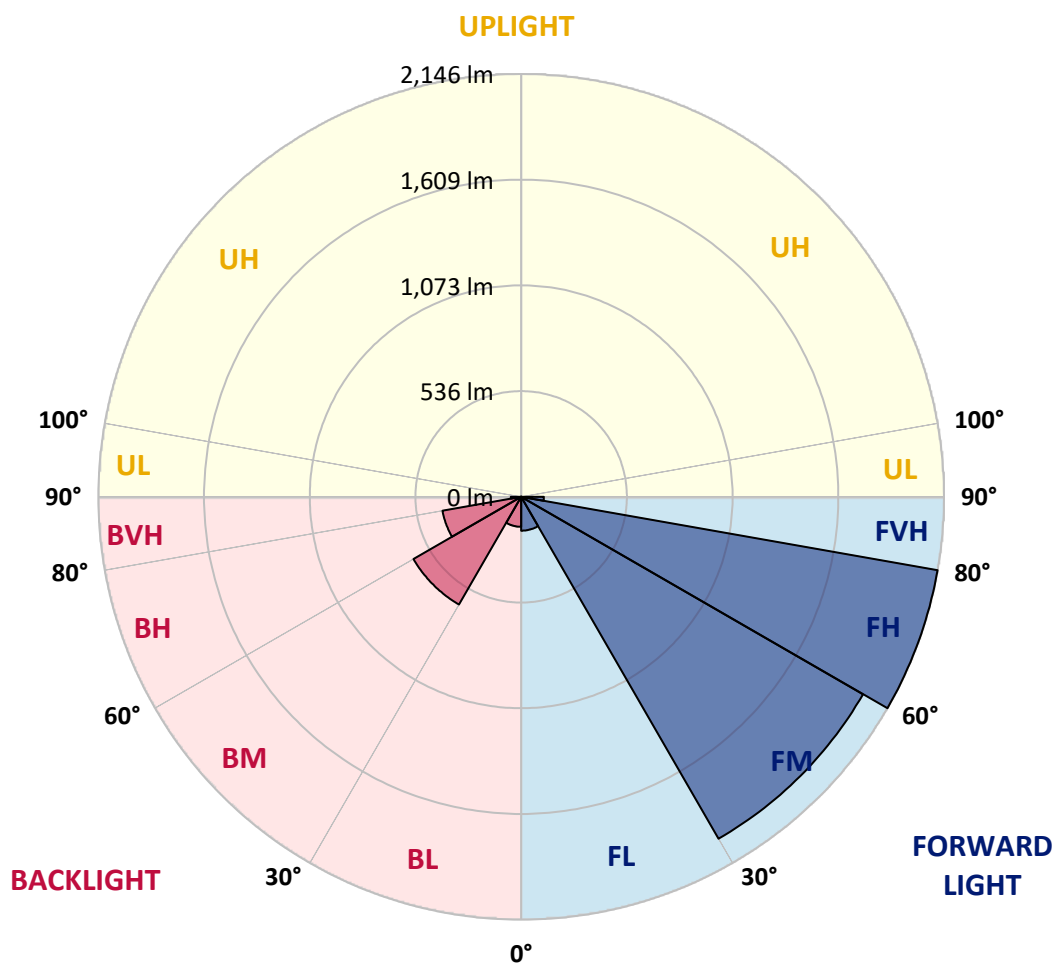
CATALOG NUMBER: UTLD-AF24-60-D-U-T3-7027

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 171.9  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 2003.2 | 35.3      |                         |      |         |
| FH   | (60°-80°)   | 2145.6 | 37.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 115.3  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 152.2  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 630.9  | 11.1      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 405.1  | 7.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 52.7   | 0.9       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





REPORT NUMBER: P266411

CATALOG NUMBER: UTLD-AF24-60-D-U-T3-7027

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 2.5°  | 29.6   | 28.8   | 25.0   | 18.3   | 9.8    | 5.2    | 2.6    | 1.9    | 1.3    | 1.3    | 1.3    |
| 5°    | 105.6  | 105.6  | 106.2  | 105.6  | 102.9  | 97.7   | 29.6   | 9.8    | 2.6    | 1.3    | 1.3    |
| 7.5°  | 104.9  | 105.6  | 105.6  | 105.6  | 105.6  | 104.3  | 102.2  | 53.8   | 6.6    | 2.6    | 2.6    |
| 10°   | 189.5  | 188.9  | 187.6  | 135.0  | 112.2  | 106.2  | 106.9  | 87.2   | 23.6   | 11.8   | 11.1   |
| 12.5° | 200.7  | 200.1  | 200.1  | 200.1  | 195.4  | 128.5  | 119.4  | 158.0  | 181.6  | 146.2  | 146.2  |
| 15°   | 242.6  | 240.7  | 224.2  | 209.1  | 205.9  | 200.7  | 224.2  | 225.6  | 224.9  | 167.3  | 177.8  |
| 17.5° | 326.5  | 326.5  | 319.3  | 297.1  | 234.7  | 281.3  | 289.9  | 248.6  | 301.7  | 305.0  | 330.4  |
| 20°   | 379.1  | 382.3  | 361.3  | 346.2  | 369.3  | 307.6  | 318.0  | 376.4  | 398.0  | 386.2  | 386.9  |
| 22.5° | 565.3  | 559.4  | 524.6  | 417.7  | 427.0  | 385.0  | 409.8  | 438.1  | 440.7  | 466.2  | 449.8  |
| 25°   | 638.1  | 637.3  | 621.6  | 590.8  | 503.1  | 499.1  | 447.9  | 554.8  | 611.1  | 629.5  | 636.8  |
| 27.5° | 850.5  | 849.2  | 756.2  | 676.2  | 621.0  | 564.7  | 584.9  | 631.5  | 653.7  | 693.9  | 698.4  |
| 30°   | 916.8  | 916.1  | 881.3  | 830.3  | 727.3  | 690.5  | 672.1  | 731.8  | 859.7  | 910.8  | 919.3  |
| 32.5° | 1166.0 | 1162.6 | 1041.3 | 890.5  | 843.2  | 796.1  | 780.4  | 864.3  | 928.6  | 982.3  | 989.6  |
| 35°   | 1274.2 | 1279.4 | 1208.6 | 1070.2 | 906.3  | 867.6  | 918.7  | 964.6  | 1007.3 | 1066.3 | 1078.1 |
| 37.5° | 1376.5 | 1393.5 | 1366.6 | 1179.7 | 1029.5 | 973.1  | 1024.2 | 1048.0 | 1132.6 | 1177.8 | 1187.6 |
| 40°   | 1560.7 | 1564.7 | 1510.9 | 1320.1 | 1157.5 | 1085.3 | 1141.0 | 1175.8 | 1246.6 | 1305.0 | 1314.2 |
| 42.5° | 1833.5 | 1819.7 | 1724.7 | 1518.0 | 1299.0 | 1233.6 | 1264.4 | 1294.5 | 1406.7 | 1459.0 | 1469.5 |
| 45°   | 2086.0 | 2082.7 | 2001.5 | 1737.1 | 1504.3 | 1399.4 | 1409.9 | 1421.7 | 1543.6 | 1632.8 | 1613.8 |
| 47.5° | 2271.5 | 2255.9 | 2229.0 | 1983.6 | 1782.3 | 1592.2 | 1550.2 | 1539.8 | 1705.6 | 1801.5 | 1792.2 |
| 50°   | 2462.4 | 2434.1 | 2409.3 | 2174.5 | 2026.9 | 1804.1 | 1685.9 | 1688.6 | 1883.3 | 1978.4 | 1975.8 |
| 52.5° | 2588.2 | 2536.5 | 2529.9 | 2344.3 | 2200.8 | 2015.2 | 1844.7 | 1869.0 | 2068.3 | 2183.7 | 2179.1 |
| 55°   | 2541.8 | 2539.1 | 2604.0 | 2480.1 | 2359.5 | 2148.2 | 2017.1 | 2061.2 | 2263.1 | 2392.2 | 2415.3 |
| 57.5° | 2404.0 | 2433.6 | 2575.3 | 2558.8 | 2543.7 | 2283.4 | 2222.3 | 2282.8 | 2511.7 | 2632.9 | 2647.9 |
| 60°   | 2281.4 | 2311.6 | 2487.9 | 2560.8 | 2630.2 | 2405.3 | 2443.4 | 2543.7 | 2710.2 | 2874.8 | 2911.5 |
| 62.5° | 2069.7 | 2111.6 | 2326.0 | 2547.1 | 2588.2 | 2498.5 | 2667.6 | 2751.6 | 2912.2 | 3140.5 | 3164.6 |
| 65°   | 1839.4 | 1857.2 | 2074.8 | 2384.5 | 2536.5 | 2546.3 | 2868.9 | 2934.6 | 3101.0 | 3353.0 | 3362.1 |
| 67.5° | 1604.6 | 1619.0 | 1810.5 | 2143.0 | 2425.8 | 2564.8 | 3047.9 | 3082.8 | 3244.0 | 3446.6 | 3409.3 |
| 70°   | 1270.9 | 1301.7 | 1434.1 | 1759.4 | 2229.7 | 2547.1 | 3215.3 | 3156.3 | 3293.2 | 3390.4 | 3295.3 |
| 72.5° | 726.5  | 725.3  | 872.9  | 1153.6 | 1684.1 | 2312.9 | 3301.1 | 3169.9 | 3243.4 | 3114.2 | 2987.7 |
| 75°   | 262.3  | 247.9  | 318.7  | 501.1  | 895.2  | 1634.1 | 3035.6 | 3082.8 | 3025.0 | 2623.7 | 2454.4 |
| 77.5° | 130.6  | 135.7  | 161.3  | 233.5  | 390.9  | 737.8  | 2226.3 | 2550.9 | 2564.0 | 1853.8 | 1745.0 |
| 80°   | 97.0   | 101.0  | 118.7  | 154.1  | 230.9  | 260.4  | 1054.5 | 1606.6 | 1689.9 | 1033.5 | 955.4  |
| 82.5° | 77.3   | 79.3   | 97.7   | 111.5  | 170.5  | 145.5  | 273.4  | 704.4  | 790.1  | 371.8  | 348.3  |
| 85°   | 74.1   | 74.7   | 83.9   | 80.7   | 120.1  | 93.2   | 132.5  | 255.7  | 289.2  | 133.0  | 124.0  |
| 87.5° | 40.1   | 40.1   | 79.3   | 55.8   | 68.2   | 49.1   | 77.3   | 108.2  | 140.3  | 69.4   | 67.0   |
| 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: P266411

CATALOG NUMBER: UTLD-AF24-60-D-U-T3-7027

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 1.3    | 1.3    | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 2.5°  | 1.3    | 1.3    | 1.3   | 1.3   | 1.3   | 1.3   | 0.7   | 0.7   | 0.7   | 1.3   | 1.3   |
| 5°    | 1.3    | 1.3    | 1.3   | 1.9   | 1.9   | 2.6   | 2.6   | 4.0   | 4.6   | 5.2   | 4.6   |
| 7.5°  | 1.9    | 1.9    | 1.9   | 3.2   | 4.0   | 5.8   | 13.1  | 52.6  | 102.2 | 106.2 | 104.9 |
| 10°   | 12.4   | 12.4   | 8.5   | 7.8   | 9.8   | 93.8  | 130.6 | 135.7 | 141.0 | 143.0 | 143.0 |
| 12.5° | 160.0  | 175.8  | 173.2 | 131.2 | 97.0  | 136.5 | 145.5 | 149.5 | 156.8 | 188.9 | 194.8 |
| 15°   | 193.4  | 200.1  | 205.9 | 192.7 | 277.3 | 165.3 | 171.8 | 270.2 | 284.0 | 285.9 | 285.9 |
| 17.5° | 341.6  | 374.5  | 273.4 | 268.2 | 297.7 | 311.5 | 262.9 | 287.2 | 289.9 | 291.8 | 293.1 |
| 20°   | 417.7  | 430.8  | 411.2 | 444.7 | 326.5 | 386.2 | 349.5 | 310.9 | 405.9 | 417.1 | 417.7 |
| 22.5° | 486.6  | 495.1  | 465.6 | 478.6 | 478.1 | 392.7 | 402.0 | 379.8 | 409.8 | 410.5 | 411.2 |
| 25°   | 672.8  | 697.1  | 676.2 | 615.8 | 483.3 | 463.6 | 418.4 | 397.4 | 465.0 | 490.6 | 492.5 |
| 27.5° | 746.9  | 747.6  | 695.7 | 629.5 | 533.9 | 477.4 | 409.8 | 466.8 | 461.6 | 465.0 | 465.6 |
| 30°   | 970.4  | 993.4  | 896.4 | 640.0 | 509.5 | 451.2 | 449.2 | 440.0 | 469.5 | 506.3 | 506.3 |
| 32.5° | 1041.3 | 1040.1 | 912.1 | 705.0 | 496.5 | 443.9 | 407.9 | 439.5 | 451.8 | 462.3 | 461.0 |
| 35°   | 1107.6 | 1098.4 | 930.6 | 669.5 | 492.5 | 398.0 | 383.7 | 394.7 | 442.7 | 464.2 | 462.9 |
| 37.5° | 1192.8 | 1166.5 | 940.3 | 619.0 | 445.9 | 374.5 | 354.1 | 378.4 | 392.7 | 394.7 | 391.5 |
| 40°   | 1295.7 | 1250.5 | 957.5 | 578.4 | 404.5 | 344.9 | 329.1 | 337.8 | 346.8 | 338.4 | 333.8 |
| 42.5° | 1415.1 | 1352.8 | 968.0 | 533.9 | 372.4 | 322.6 | 303.5 | 308.8 | 313.5 | 303.0 | 299.0 |
| 45°   | 1563.9 | 1461.1 | 970.4 | 493.8 | 346.8 | 305.0 | 281.3 | 284.7 | 290.5 | 282.0 | 280.0 |
| 47.5° | 1735.9 | 1594.9 | 971.8 | 465.6 | 324.6 | 285.9 | 262.9 | 266.3 | 273.4 | 264.9 | 262.9 |
| 50°   | 1931.3 | 1738.4 | 979.7 | 438.7 | 296.4 | 265.5 | 247.9 | 251.9 | 259.7 | 251.2 | 250.4 |
| 52.5° | 2139.8 | 1872.2 | 980.4 | 400.6 | 266.3 | 246.6 | 237.4 | 247.3 | 267.5 | 249.9 | 247.9 |
| 55°   | 2341.2 | 2007.9 | 983.6 | 345.6 | 236.8 | 232.8 | 230.9 | 254.4 | 282.0 | 249.2 | 244.6 |
| 57.5° | 2550.3 | 2143.6 | 976.5 | 290.5 | 217.1 | 220.4 | 235.4 | 256.3 | 278.0 | 249.2 | 242.0 |
| 60°   | 2749.6 | 2279.4 | 895.2 | 246.0 | 201.3 | 211.8 | 238.1 | 251.2 | 254.4 | 244.6 | 240.7 |
| 62.5° | 2925.4 | 2385.7 | 721.3 | 217.7 | 188.9 | 206.6 | 233.5 | 238.7 | 240.7 | 239.9 | 238.1 |
| 65°   | 2999.5 | 2406.0 | 489.1 | 197.4 | 178.4 | 200.7 | 224.9 | 230.1 | 233.5 | 236.1 | 232.8 |
| 67.5° | 2939.2 | 2321.4 | 308.2 | 179.0 | 169.8 | 192.7 | 213.1 | 222.3 | 226.9 | 236.8 | 232.1 |
| 70°   | 2741.1 | 2101.0 | 224.9 | 167.3 | 160.6 | 181.0 | 202.7 | 215.8 | 220.4 | 229.4 | 222.3 |
| 72.5° | 2378.4 | 1726.0 | 186.3 | 152.8 | 150.1 | 170.5 | 193.4 | 208.5 | 209.8 | 209.8 | 203.9 |
| 75°   | 1800.7 | 1200.8 | 158.7 | 140.3 | 137.0 | 158.7 | 183.7 | 196.6 | 196.6 | 190.3 | 186.3 |
| 77.5° | 1128.6 | 661.7  | 137.7 | 128.5 | 124.5 | 144.9 | 172.5 | 182.3 | 180.3 | 172.5 | 169.2 |
| 80°   | 539.1  | 280.7  | 121.4 | 115.4 | 113.5 | 131.8 | 160.0 | 166.5 | 162.7 | 154.8 | 148.2 |
| 82.5° | 215.8  | 137.0  | 106.9 | 101.0 | 101.0 | 118.0 | 147.5 | 152.2 | 146.2 | 156.8 | 124.0 |
| 85°   | 99.1   | 91.2   | 86.5  | 83.4  | 85.2  | 95.7  | 128.5 | 133.0 | 127.2 | 106.2 | 100.3 |
| 87.5° | 55.8   | 61.7   | 51.2  | 53.1  | 57.8  | 67.6  | 95.7  | 91.2  | 90.5  | 68.9  | 62.3  |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)