

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: P240525

Luminaire Tested: **UTLD-AF24-40-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-40-D-U-SL3-TL-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3741 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U3 - G2

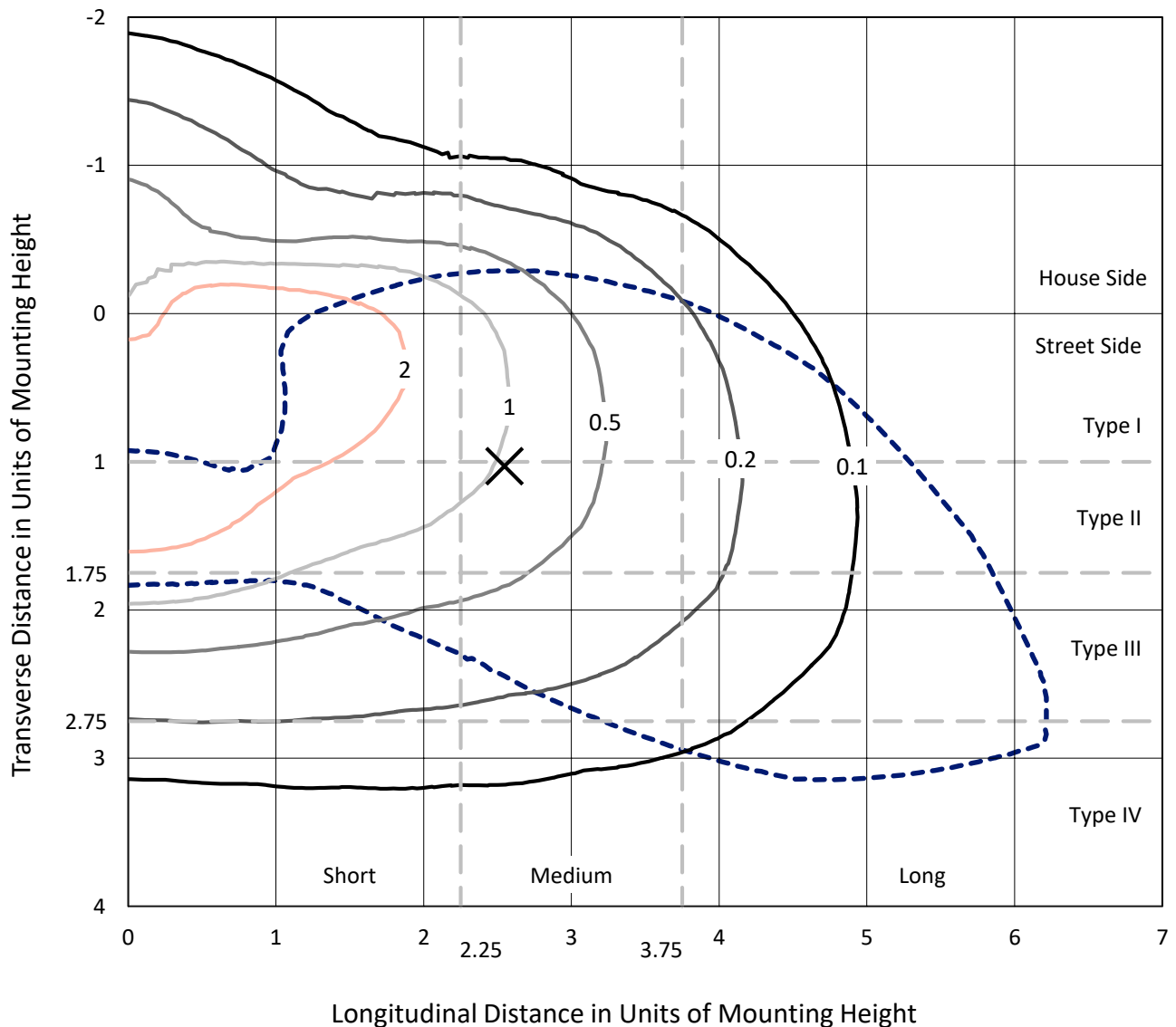
Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

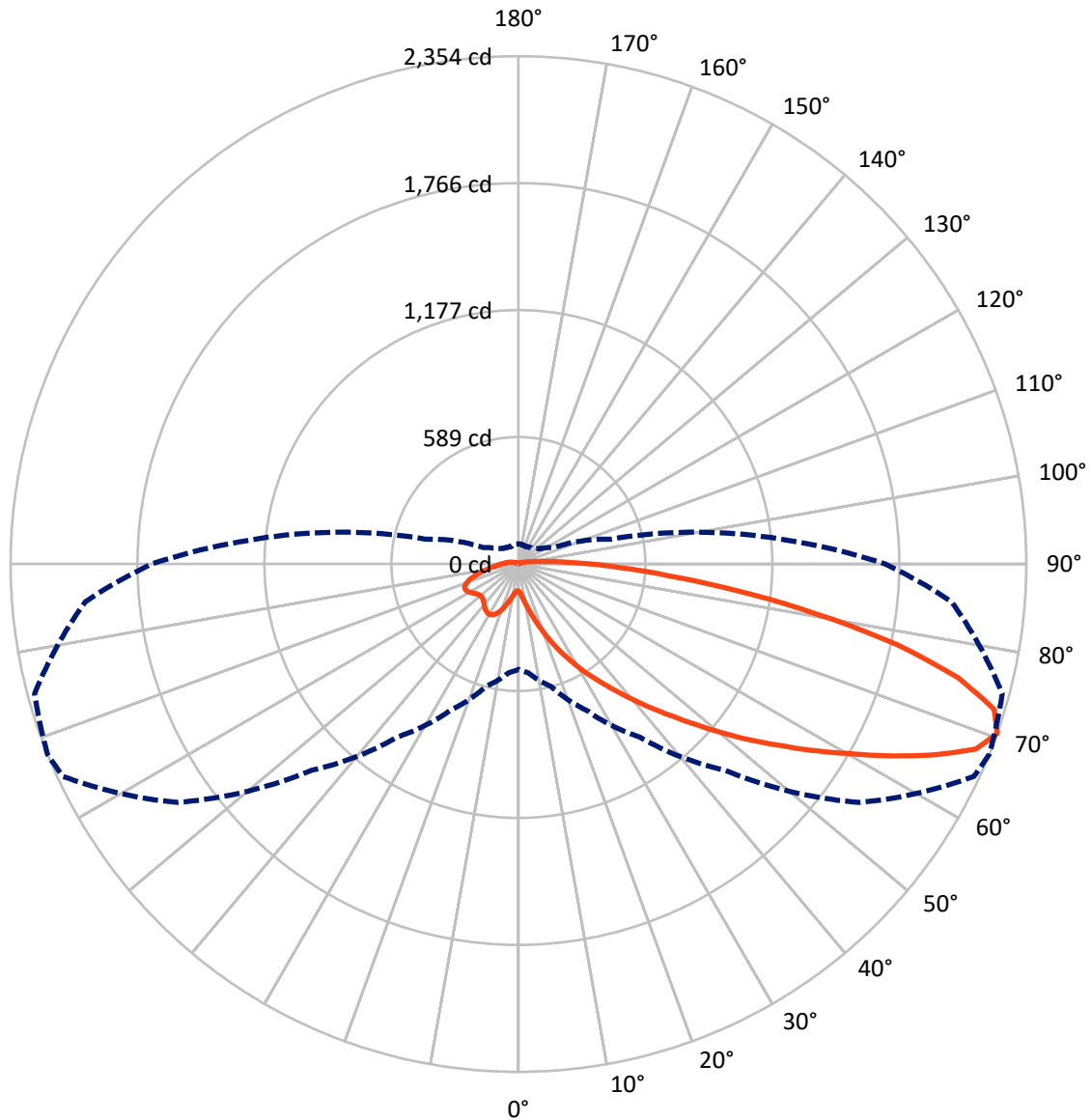
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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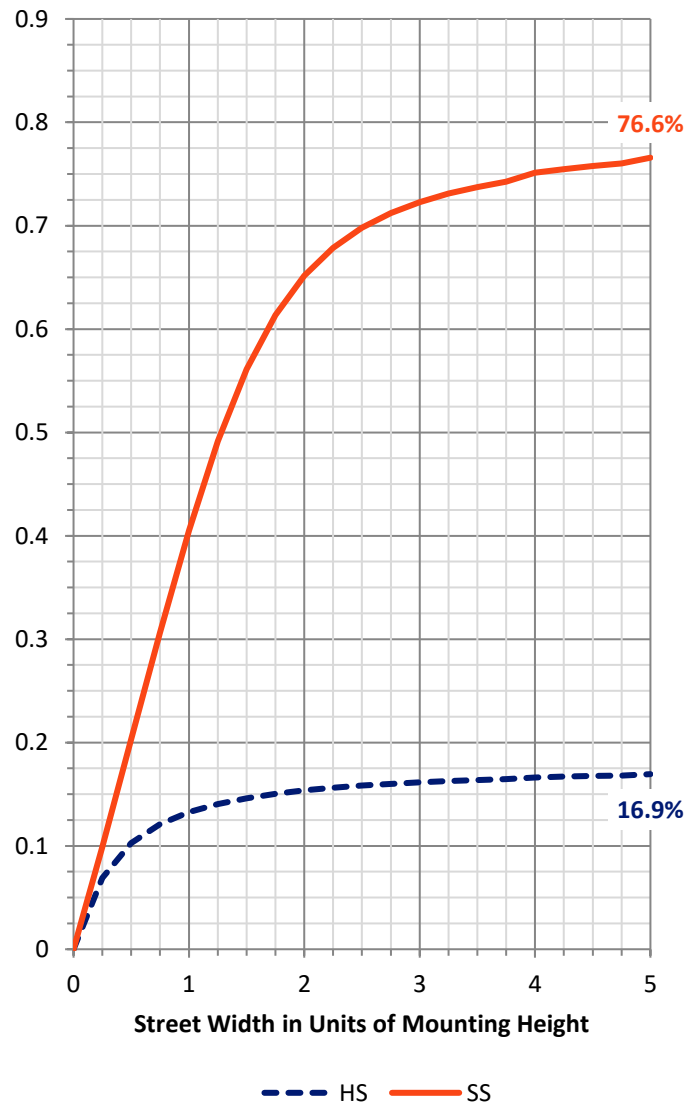
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 661.3    | 60.7   | 722.0  |
|                    | % Fixture | 17.7     | 1.6    | 19.3   |
| <b>Street Side</b> | Lumens    | 2935.8   | 83.2   | 3019.0 |
|                    | % Fixture | 78.5     | 2.2    | 80.7   |
| <b>Total</b>       | Lumens    | 3597.1   | 143.9  | 3741.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.7   | 0.4       |
| 10°-20°   | 59.4   | 1.6       |
| 20°-30°   | 150.2  | 4.0       |
| 30°-40°   | 291.0  | 7.8       |
| 40°-50°   | 490.7  | 13.1      |
| 50°-60°   | 733.7  | 19.6      |
| 60°-70°   | 889.6  | 23.8      |
| 70°-80°   | 694.1  | 18.6      |
| 80°-90°   | 274.6  | 7.3       |
| 90°-100°  | 84.1   | 2.2       |
| 100°-110° | 33.1   | 0.9       |
| 110°-120° | 14.6   | 0.4       |
| 120°-130° | 7.2    | 0.2       |
| 130°-140° | 3.6    | 0.1       |
| 140°-150° | 1.1    | 0.0       |
| 150°-160° | 0.2    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 3597.1 | 96.2      |
| 0°-180°   | 3741.0 | 100.0     |

**Coefficient of Utilization**



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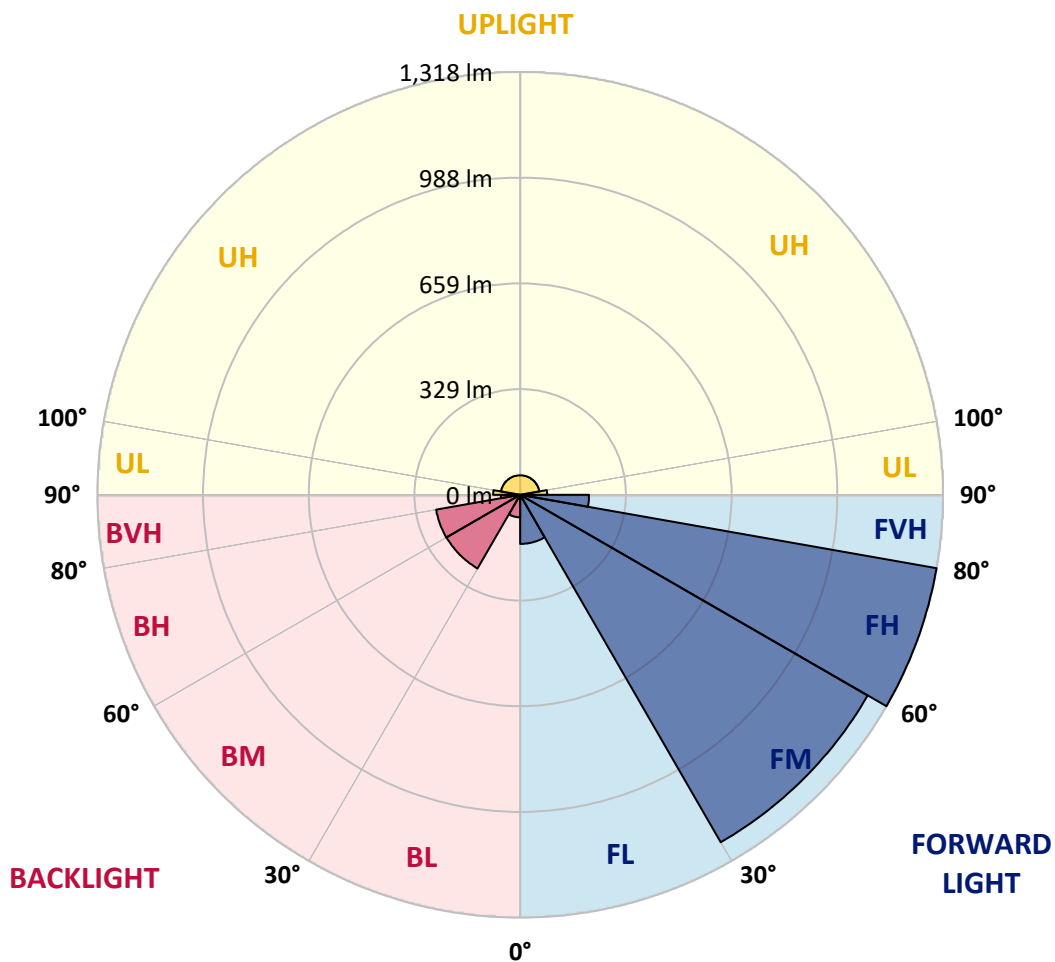
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 152.9  | 4.1       |                         |        |         |
| FM   | (30°-60°)   | 1250.4 | 33.4      |                         |        |         |
| FH   | (60°-80°)   | 1317.8 | 35.2      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 214.7  | 5.7       |                         |        | G2/225  |
| BL   | (0°-30°)    | 70.3   | 1.9       | B0/110                  |        |         |
| BM   | (30°-60°)   | 265.1  | 7.1       | B1/1000                 |        |         |
| BH   | (60°-80°)   | 265.9  | 7.1       | B1/500                  |        | G1/500  |
| BVH  | (80°-90°)   | 60.0   | 1.6       |                         |        | G1/100  |
| UL   | (90°-100°)  | 84.1   | 2.2       |                         | U3/500 |         |
| UH   | (100°-180°) | 60.7   | 1.6       |                         | U3/500 |         |

**BUG Rating: B1-U3-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 68°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  | 125.6  |
| 2.5°   | 139.9  | 140.4  | 140.4  | 138.9  | 138.4  | 136.9  | 134.5  | 133.6  | 132.5  | 131.5  | 129.6  |
| 5°     | 158.4  | 158.4  | 157.5  | 156.0  | 154.0  | 152.6  | 150.1  | 147.2  | 146.7  | 143.3  | 139.9  |
| 7.5°   | 179.5  | 180.0  | 180.5  | 178.0  | 175.2  | 172.6  | 169.7  | 165.8  | 164.9  | 161.3  | 155.0  |
| 10°    | 207.4  | 207.9  | 206.9  | 204.5  | 200.5  | 197.6  | 194.2  | 190.2  | 188.8  | 185.8  | 177.1  |
| 12.5°  | 241.1  | 240.6  | 237.7  | 234.3  | 229.9  | 226.5  | 222.1  | 219.2  | 218.2  | 215.2  | 206.0  |
| 15°    | 276.9  | 278.8  | 275.4  | 267.5  | 262.1  | 256.8  | 254.8  | 254.8  | 255.7  | 252.4  | 243.5  |
| 17.5°  | 322.9  | 324.3  | 318.4  | 307.7  | 298.9  | 293.0  | 291.0  | 294.9  | 296.4  | 297.8  | 290.1  |
| 20°    | 376.1  | 376.6  | 367.3  | 352.2  | 336.5  | 329.2  | 329.6  | 338.9  | 342.4  | 347.8  | 338.4  |
| 22.5°  | 441.2  | 437.2  | 424.0  | 400.6  | 378.0  | 366.3  | 370.7  | 389.3  | 392.2  | 403.5  | 398.6  |
| 25°    | 509.1  | 508.7  | 486.6  | 455.4  | 422.7  | 407.4  | 414.7  | 437.8  | 446.1  | 463.2  | 456.8  |
| 27.5°  | 587.4  | 585.4  | 557.1  | 518.4  | 473.9  | 451.5  | 457.8  | 490.6  | 500.4  | 529.3  | 522.4  |
| 30°    | 670.6  | 671.1  | 637.7  | 584.0  | 528.7  | 497.4  | 501.3  | 546.9  | 559.5  | 592.8  | 590.9  |
| 32.5°  | 769.8  | 763.9  | 726.8  | 656.4  | 588.4  | 545.9  | 551.2  | 604.1  | 621.6  | 661.2  | 655.4  |
| 35°    | 869.6  | 862.3  | 812.9  | 735.7  | 650.5  | 600.2  | 602.6  | 665.2  | 683.8  | 735.1  | 723.9  |
| 37.5°  | 961.6  | 957.6  | 908.3  | 819.2  | 720.0  | 660.3  | 663.2  | 730.7  | 754.2  | 811.5  | 797.7  |
| 40°    | 1060.4 | 1060.4 | 1010.0 | 913.2  | 797.3  | 725.4  | 729.8  | 803.6  | 832.0  | 894.7  | 871.6  |
| 42.5°  | 1165.0 | 1161.7 | 1108.3 | 998.7  | 874.1  | 795.3  | 804.0  | 885.8  | 917.6  | 984.1  | 960.6  |
| 45°    | 1268.3 | 1261.0 | 1205.6 | 1091.7 | 950.8  | 874.1  | 887.1  | 975.8  | 1009.0 | 1093.6 | 1060.9 |
| 47.5°  | 1357.2 | 1349.5 | 1295.2 | 1175.3 | 1031.5 | 955.7  | 974.3  | 1080.5 | 1115.6 | 1216.4 | 1166.6 |
| 50°    | 1420.8 | 1418.4 | 1365.6 | 1241.8 | 1103.4 | 1039.8 | 1078.9 | 1191.9 | 1234.0 | 1335.7 | 1288.8 |
| 52.5°  | 1458.1 | 1453.5 | 1411.5 | 1302.1 | 1175.3 | 1126.9 | 1186.5 | 1313.3 | 1357.8 | 1467.4 | 1412.5 |
| 55°    | 1449.8 | 1446.8 | 1417.0 | 1333.8 | 1231.6 | 1210.5 | 1305.8 | 1448.2 | 1489.9 | 1608.2 | 1543.2 |
| 57.5°  | 1384.2 | 1388.0 | 1379.3 | 1335.7 | 1273.1 | 1297.1 | 1428.2 | 1590.6 | 1634.6 | 1750.0 | 1680.5 |
| 60°    | 1267.3 | 1265.8 | 1290.8 | 1298.1 | 1289.8 | 1372.0 | 1575.8 | 1752.9 | 1786.7 | 1903.1 | 1814.6 |
| 62.5°  | 1094.7 | 1090.7 | 1145.0 | 1215.0 | 1277.6 | 1435.0 | 1709.0 | 1926.1 | 1959.9 | 2053.7 | 1938.4 |
| 65°    | 882.9  | 900.4  | 968.5  | 1083.9 | 1216.9 | 1459.0 | 1838.1 | 2102.7 | 2130.5 | 2180.5 | 2035.6 |
| 67.5°  | 669.1  | 686.2  | 774.2  | 920.5  | 1115.6 | 1431.1 | 1920.2 | 2261.1 | 2288.0 | 2301.2 | 2078.2 |
| 70°    | 488.6  | 505.3  | 588.4  | 748.9  | 978.2  | 1350.5 | 1926.6 | 2329.6 | 2354.1 | 2321.8 | 2015.7 |
| 72.5°  | 347.8  | 356.5  | 428.0  | 580.0  | 821.7  | 1209.1 | 1846.4 | 2285.6 | 2305.7 | 2216.1 | 1850.3 |
| 75°    | 246.1  | 249.9  | 311.6  | 441.2  | 669.1  | 1049.1 | 1655.6 | 2088.5 | 2104.2 | 1991.7 | 1573.5 |
| 77.5°  | 167.7  | 176.6  | 225.5  | 336.5  | 536.6  | 861.3  | 1403.2 | 1790.6 | 1790.6 | 1647.8 | 1244.8 |
| 80°    | 118.9  | 126.2  | 161.9  | 251.4  | 420.1  | 690.1  | 1133.8 | 1422.8 | 1400.2 | 1238.5 | 897.0  |
| 82.5°  | 85.5   | 91.4   | 119.8  | 191.7  | 326.2  | 545.3  | 860.3  | 1053.6 | 1022.6 | 864.2  | 592.8  |
| 85°    | 62.2   | 68.0   | 91.0   | 140.8  | 249.9  | 423.1  | 644.6  | 731.7  | 701.3  | 572.7  | 384.9  |
| 87.5°  | 45.5   | 49.3   | 68.0   | 106.1  | 189.2  | 320.3  | 473.0  | 496.9  | 470.1  | 370.3  | 247.0  |
| 90°    | 32.2   | 35.7   | 51.9   | 80.2   | 141.8  | 240.6  | 332.1  | 326.2  | 296.8  | 232.8  | 163.4  |
| 92.5°  | 23.5   | 25.9   | 38.7   | 61.1   | 105.7  | 176.6  | 228.5  | 210.8  | 194.2  | 149.6  | 113.5  |
| 95°    | 17.6   | 19.5   | 30.4   | 47.4   | 77.8   | 124.2  | 154.0  | 138.4  | 125.6  | 102.2  | 83.6   |
| 97.5°  | 14.2   | 15.7   | 24.9   | 38.1   | 60.2   | 90.4   | 106.6  | 91.4   | 85.5   | 73.9   | 64.6   |
| 100°   | 12.2   | 13.2   | 21.0   | 31.8   | 47.4   | 68.0   | 75.3   | 64.0   | 60.6   | 55.7   | 50.4   |
| 102.5° | 11.3   | 11.7   | 18.6   | 27.5   | 38.7   | 51.0   | 54.3   | 48.0   | 45.5   | 42.5   | 39.7   |
| 105°   | 10.3   | 10.7   | 16.6   | 23.9   | 32.8   | 39.7   | 41.6   | 36.7   | 35.2   | 32.2   | 30.4   |
| 107.5° | 9.9    | 9.9    | 14.6   | 21.0   | 27.9   | 32.8   | 32.8   | 28.9   | 27.5   | 24.5   | 23.5   |
| 110°   | 9.3    | 9.3    | 13.2   | 19.1   | 23.9   | 27.9   | 26.9   | 23.0   | 21.6   | 18.6   | 18.1   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 68°  | 75°  | 85°  |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 8.8 | 8.8 | 12.2 | 16.6 | 21.0 | 23.5 | 22.5 | 18.6 | 17.2 | 14.2 | 14.2 |
| 115°   | 8.3 | 8.3 | 10.7 | 14.6 | 18.6 | 20.1 | 19.1 | 15.2 | 14.2 | 11.3 | 11.7 |
| 117.5° | 8.3 | 8.3 | 10.3 | 13.2 | 16.2 | 17.6 | 16.2 | 12.2 | 11.3 | 9.3  | 10.3 |
| 120°   | 7.8 | 7.8 | 9.3  | 11.7 | 14.2 | 15.2 | 13.6 | 10.3 | 9.3  | 7.8  | 8.8  |
| 122.5° | 7.8 | 7.8 | 8.8  | 10.3 | 12.7 | 13.2 | 11.7 | 8.8  | 7.8  | 6.9  | 7.8  |
| 125°   | 7.3 | 7.3 | 8.3  | 9.3  | 10.7 | 11.3 | 9.9  | 7.3  | 6.9  | 6.3  | 6.9  |
| 127.5° | 7.3 | 7.3 | 7.8  | 8.3  | 9.9  | 9.9  | 8.3  | 5.9  | 5.9  | 5.4  | 6.3  |
| 130°   | 6.9 | 7.3 | 7.3  | 7.8  | 8.3  | 8.3  | 6.9  | 4.9  | 4.9  | 4.9  | 5.9  |
| 132.5° | 6.9 | 6.9 | 6.9  | 6.9  | 7.3  | 6.9  | 5.4  | 4.4  | 4.4  | 4.4  | 5.4  |
| 135°   | 6.3 | 6.3 | 6.3  | 6.3  | 5.9  | 5.4  | 4.4  | 3.4  | 3.4  | 4.0  | 4.9  |
| 137.5° | 6.3 | 6.3 | 5.9  | 5.4  | 5.4  | 4.4  | 3.4  | 2.9  | 2.9  | 4.0  | 4.4  |
| 140°   | 5.9 | 5.9 | 5.4  | 4.9  | 4.0  | 3.4  | 2.4  | 2.4  | 2.4  | 2.9  | 3.4  |
| 142.5° | 4.9 | 4.9 | 4.9  | 4.0  | 2.9  | 1.9  | 1.4  | 1.4  | 1.9  | 2.4  | 2.9  |
| 145°   | 4.4 | 4.4 | 4.0  | 3.4  | 1.9  | 1.0  | 0.4  | 1.0  | 1.4  | 1.9  | 2.4  |
| 147.5° | 3.4 | 3.4 | 2.9  | 2.4  | 1.0  | 0.4  | 0.0  | 0.4  | 1.0  | 1.0  | 1.4  |
| 150°   | 2.4 | 2.4 | 2.4  | 1.4  | 0.4  | 0.0  | 0.0  | 0.4  | 0.4  | 0.4  | 1.0  |
| 152.5° | 1.9 | 1.9 | 1.4  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 0.4  | 0.4  |
| 155°   | 1.0 | 1.0 | 1.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  |
| 157.5° | 0.4 | 0.4 | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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):**

|        | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 125.6  | 125.6  | 125.6 | 125.6 | 125.6 | 125.6 | 125.6 | 125.6 | 125.6 | 125.6 | 125.6 |
| 2.5°   | 128.2  | 127.7  | 125.2 | 123.3 | 120.8 | 118.9 | 116.9 | 115.4 | 114.9 | 113.9 | 114.5 |
| 5°     | 136.9  | 135.1  | 130.1 | 125.6 | 120.8 | 116.4 | 112.5 | 109.6 | 107.1 | 106.1 | 105.7 |
| 7.5°   | 152.1  | 149.1  | 140.4 | 132.5 | 124.8 | 116.9 | 110.6 | 105.7 | 102.7 | 100.7 | 100.7 |
| 10°    | 174.2  | 167.7  | 156.6 | 143.3 | 130.1 | 118.9 | 110.1 | 103.2 | 98.8  | 97.4  | 97.4  |
| 12.5°  | 201.0  | 194.2  | 176.6 | 156.6 | 137.8 | 122.3 | 110.6 | 103.2 | 98.8  | 96.8  | 96.3  |
| 15°    | 236.8  | 226.5  | 200.5 | 172.2 | 145.4 | 125.2 | 111.0 | 103.7 | 100.7 | 99.8  | 99.8  |
| 17.5°  | 278.8  | 266.0  | 228.5 | 189.2 | 153.6 | 126.6 | 112.5 | 106.6 | 105.1 | 105.1 | 105.1 |
| 20°    | 328.7  | 310.1  | 259.7 | 204.5 | 159.4 | 128.2 | 113.5 | 109.0 | 109.0 | 110.1 | 110.6 |
| 22.5°  | 382.0  | 358.5  | 290.1 | 218.6 | 161.3 | 129.2 | 113.0 | 110.1 | 112.5 | 114.9 | 115.4 |
| 25°    | 438.6  | 406.0  | 317.4 | 227.5 | 162.4 | 126.6 | 111.6 | 110.6 | 115.4 | 118.9 | 119.8 |
| 27.5°  | 498.9  | 454.4  | 340.9 | 230.9 | 159.4 | 122.3 | 109.0 | 109.6 | 116.9 | 121.9 | 122.8 |
| 30°    | 554.2  | 499.9  | 359.5 | 229.9 | 153.1 | 116.9 | 106.1 | 108.0 | 116.9 | 123.8 | 125.2 |
| 32.5°  | 611.5  | 544.8  | 370.7 | 225.5 | 145.4 | 111.0 | 102.7 | 106.6 | 116.4 | 124.2 | 125.6 |
| 35°    | 668.5  | 584.4  | 376.1 | 216.7 | 136.5 | 105.7 | 99.3  | 104.3 | 114.9 | 123.8 | 124.8 |
| 37.5°  | 725.8  | 623.7  | 377.6 | 205.4 | 128.6 | 101.3 | 96.8  | 102.7 | 112.5 | 122.8 | 124.2 |
| 40°    | 787.4  | 662.2  | 374.6 | 194.2 | 121.3 | 98.4  | 94.8  | 100.7 | 110.6 | 121.3 | 123.3 |
| 42.5°  | 856.4  | 703.3  | 371.3 | 182.9 | 116.4 | 96.3  | 93.4  | 98.8  | 107.6 | 119.8 | 122.3 |
| 45°    | 933.2  | 748.3  | 369.3 | 174.2 | 113.5 | 95.4  | 93.0  | 97.4  | 106.1 | 118.9 | 121.3 |
| 47.5°  | 1015.9 | 805.0  | 371.3 | 168.3 | 112.0 | 95.8  | 93.0  | 96.3  | 104.3 | 116.9 | 119.8 |
| 50°    | 1116.6 | 870.1  | 378.6 | 163.9 | 111.6 | 96.3  | 93.4  | 95.4  | 102.2 | 113.9 | 116.9 |
| 52.5°  | 1220.9 | 936.7  | 390.3 | 162.9 | 112.0 | 97.4  | 94.0  | 94.8  | 99.3  | 110.1 | 112.5 |
| 55°    | 1328.9 | 1024.7 | 410.4 | 164.3 | 113.0 | 98.8  | 94.4  | 94.0  | 96.8  | 105.1 | 108.0 |
| 57.5°  | 1451.2 | 1116.2 | 435.3 | 167.7 | 114.5 | 99.8  | 94.8  | 93.0  | 94.0  | 100.7 | 103.2 |
| 60°    | 1572.5 | 1209.1 | 460.7 | 172.2 | 117.4 | 101.3 | 95.4  | 92.5  | 92.5  | 97.8  | 99.8  |
| 62.5°  | 1682.5 | 1290.8 | 481.8 | 178.0 | 119.8 | 102.2 | 95.4  | 91.4  | 91.0  | 95.4  | 97.4  |
| 65°    | 1757.9 | 1333.8 | 486.6 | 181.5 | 122.3 | 102.7 | 94.4  | 90.4  | 90.0  | 93.4  | 95.4  |
| 67.5°  | 1777.8 | 1327.0 | 476.9 | 182.9 | 123.8 | 102.7 | 94.4  | 89.5  | 90.0  | 93.0  | 94.4  |
| 70°    | 1699.6 | 1256.1 | 444.5 | 180.0 | 123.3 | 102.2 | 93.4  | 88.5  | 89.5  | 92.5  | 93.4  |
| 72.5°  | 1512.8 | 1109.3 | 394.8 | 172.6 | 120.8 | 100.3 | 91.4  | 87.1  | 88.5  | 92.0  | 93.0  |
| 75°    | 1269.7 | 919.0  | 335.5 | 160.9 | 116.4 | 97.8  | 89.5  | 85.1  | 87.5  | 91.0  | 91.4  |
| 77.5°  | 976.8  | 704.2  | 274.3 | 145.8 | 110.6 | 94.4  | 86.6  | 82.2  | 85.5  | 89.5  | 89.0  |
| 80°    | 693.6  | 513.5  | 216.7 | 130.1 | 102.7 | 89.5  | 82.7  | 78.7  | 82.7  | 86.6  | 85.5  |
| 82.5°  | 477.9  | 348.2  | 173.1 | 114.9 | 94.4  | 84.1  | 78.2  | 74.9  | 79.2  | 82.7  | 81.2  |
| 85°    | 313.0  | 235.2  | 136.5 | 100.7 | 86.6  | 78.7  | 73.3  | 69.9  | 74.3  | 77.2  | 75.3  |
| 87.5°  | 202.0  | 163.9  | 109.0 | 87.5  | 78.2  | 72.8  | 68.0  | 65.0  | 69.5  | 71.9  | 69.9  |
| 90°    | 140.4  | 119.3  | 90.0  | 75.8  | 70.5  | 66.5  | 62.6  | 59.6  | 63.6  | 65.5  | 64.6  |
| 92.5°  | 100.3  | 91.4   | 74.9  | 66.5  | 63.6  | 60.2  | 56.7  | 54.3  | 58.2  | 59.6  | 58.7  |
| 95°    | 78.2   | 72.8   | 63.6  | 58.7  | 57.3  | 54.7  | 51.4  | 48.9  | 51.9  | 52.8  | 52.3  |
| 97.5°  | 62.6   | 60.2   | 54.7  | 51.9  | 51.0  | 48.9  | 46.4  | 44.0  | 46.0  | 46.4  | 46.0  |
| 100°   | 50.4   | 49.3   | 47.0  | 45.5  | 45.1  | 43.4  | 41.1  | 39.2  | 40.1  | 39.7  | 39.7  |
| 102.5° | 40.1   | 40.1   | 39.7  | 39.2  | 39.2  | 37.7  | 35.7  | 33.8  | 33.8  | 32.8  | 32.8  |
| 105°   | 31.8   | 32.8   | 32.8  | 33.3  | 33.8  | 32.8  | 30.8  | 28.4  | 27.9  | 26.4  | 26.4  |
| 107.5° | 24.9   | 25.9   | 27.5  | 27.9  | 28.4  | 27.5  | 25.9  | 23.5  | 22.0  | 20.5  | 21.0  |
| 110°   | 19.5   | 20.5   | 22.5  | 23.5  | 23.9  | 23.5  | 21.6  | 19.5  | 17.2  | 16.2  | 16.6  |



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CATALOG NUMBER: UTLD-AF24-40-D-U-SL3-TL-7030

**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 15.2 | 16.6 | 18.6 | 19.5 | 20.1 | 19.5 | 17.6 | 15.7 | 13.2 | 12.7 | 12.7 |
| 115°   | 12.7 | 13.6 | 15.7 | 16.6 | 16.6 | 16.2 | 14.6 | 12.2 | 10.3 | 9.9  | 10.3 |
| 117.5° | 10.7 | 11.7 | 13.2 | 14.2 | 14.2 | 13.6 | 12.2 | 9.9  | 8.3  | 8.3  | 8.3  |
| 120°   | 9.3  | 10.3 | 11.3 | 12.2 | 12.2 | 11.7 | 10.3 | 7.8  | 6.9  | 6.9  | 6.9  |
| 122.5° | 8.3  | 8.8  | 9.9  | 10.3 | 10.3 | 9.9  | 8.3  | 6.3  | 5.4  | 5.9  | 5.9  |
| 125°   | 7.3  | 7.8  | 8.8  | 9.3  | 8.8  | 8.3  | 6.9  | 4.9  | 4.4  | 4.9  | 4.9  |
| 127.5° | 6.9  | 7.3  | 7.8  | 7.8  | 7.8  | 6.9  | 5.9  | 4.0  | 4.0  | 4.4  | 4.4  |
| 130°   | 6.3  | 6.3  | 6.9  | 6.9  | 6.3  | 5.9  | 4.4  | 2.9  | 2.9  | 4.0  | 4.0  |
| 132.5° | 5.9  | 5.9  | 6.3  | 5.9  | 5.9  | 4.9  | 3.4  | 2.4  | 2.9  | 3.4  | 3.4  |
| 135°   | 4.9  | 4.9  | 5.4  | 5.4  | 4.4  | 4.0  | 2.4  | 1.9  | 1.9  | 2.4  | 2.9  |
| 137.5° | 4.4  | 4.9  | 4.9  | 4.4  | 4.0  | 2.9  | 1.9  | 1.4  | 1.9  | 1.9  | 2.4  |
| 140°   | 4.0  | 4.0  | 4.0  | 3.4  | 2.9  | 1.9  | 1.0  | 1.0  | 1.4  | 1.4  | 1.4  |
| 142.5° | 2.9  | 3.4  | 3.4  | 2.9  | 1.9  | 1.0  | 0.4  | 0.4  | 1.0  | 1.0  | 1.0  |
| 145°   | 2.4  | 2.4  | 2.4  | 1.9  | 1.4  | 1.0  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  |
| 147.5° | 1.4  | 1.9  | 1.9  | 1.4  | 1.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 1.0  | 1.0  | 1.4  | 1.0  | 1.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.4  | 1.0  | 1.0  | 1.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.4  | 0.4  | 1.0  | 0.4  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.4  | 0.4  | 0.4  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.4  | 0.4  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.4  | 0.4  | 0.4  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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)