

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: P266301

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266301  
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-AF24-30-D-U-SL3-TL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 375mA 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: 2585.2 lumens  
Efficiency: N/A  
Efficacy: 83.4 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): 31  
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



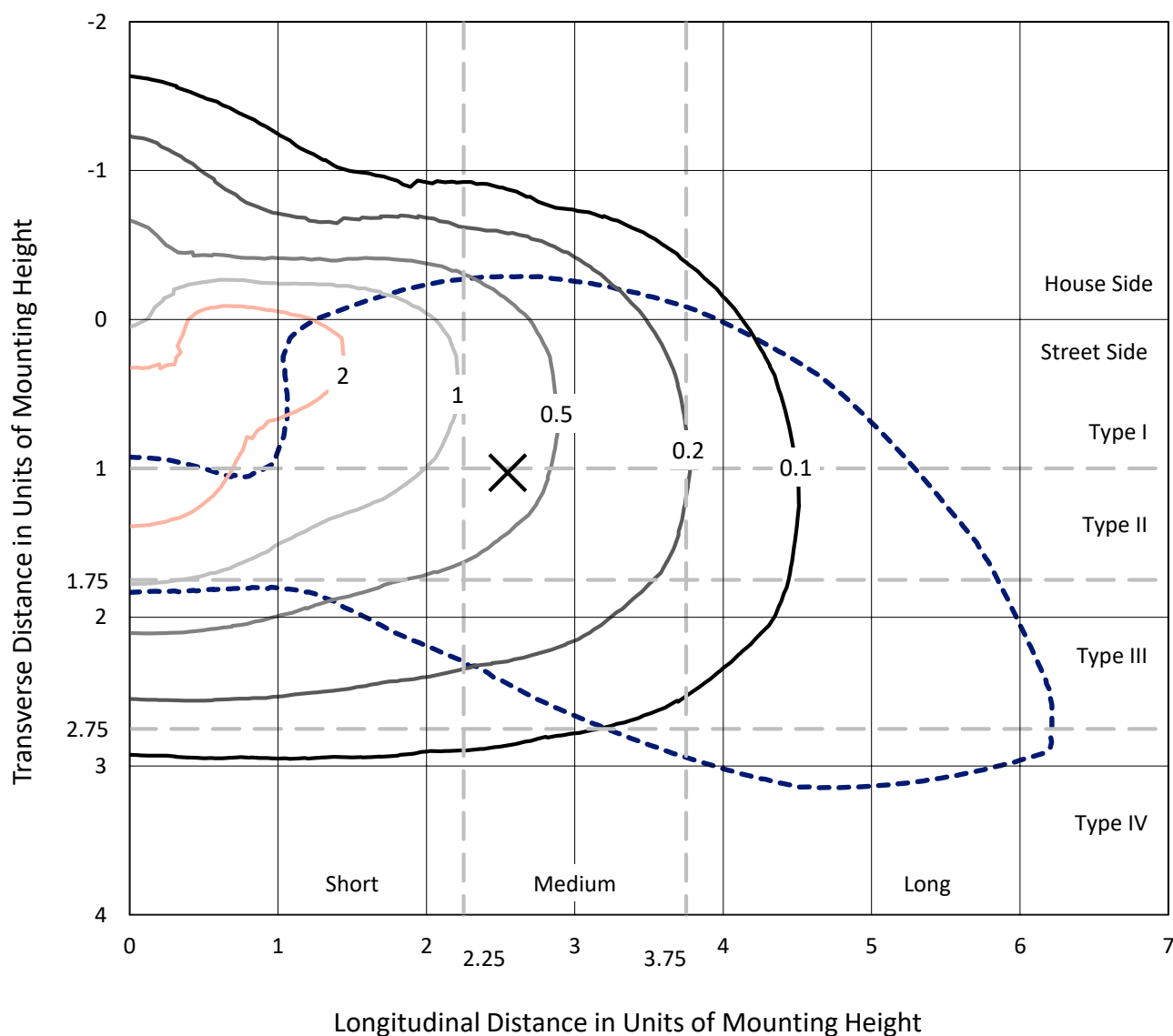
REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

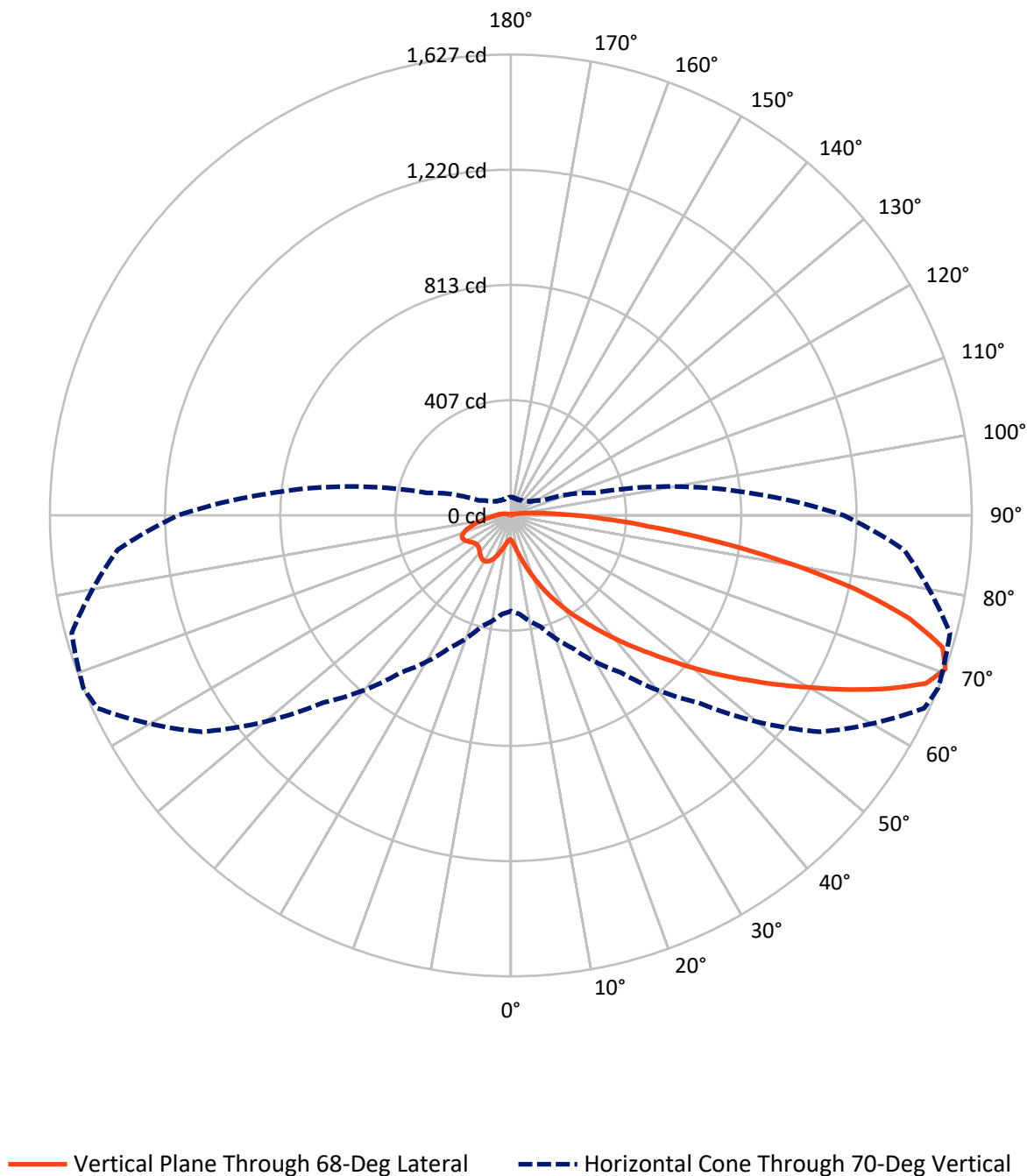


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

## Luminous Intensity Polar Plot



REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

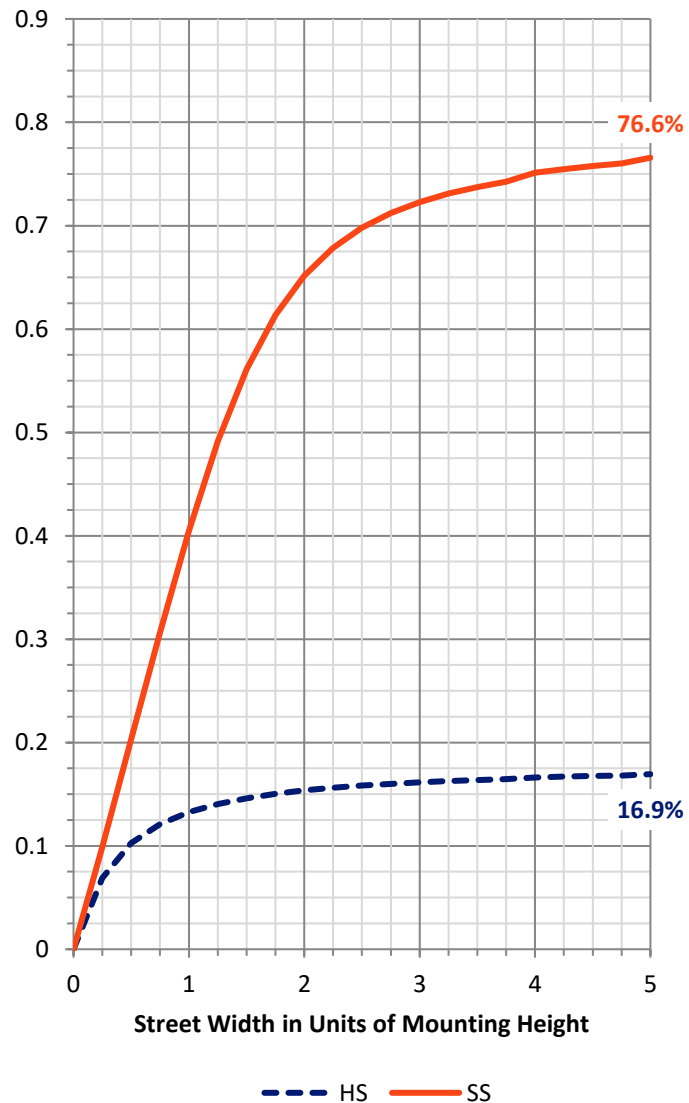
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 457.0    | 42.0   | 498.9  |
|                    | % Fixture | 17.7     | 1.6    | 19.3   |
| <b>Street Side</b> | Lumens    | 2028.8   | 57.5   | 2086.3 |
|                    | % Fixture | 78.5     | 2.2    | 80.7   |
| <b>Total</b>       | Lumens    | 2485.8   | 99.5   | 2585.2 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.5    | 0.4       |
| 10°-20°   | 41.0   | 1.6       |
| 20°-30°   | 103.8  | 4.0       |
| 30°-40°   | 201.1  | 7.8       |
| 40°-50°   | 339.1  | 13.1      |
| 50°-60°   | 507.0  | 19.6      |
| 60°-70°   | 614.8  | 23.8      |
| 70°-80°   | 479.7  | 18.6      |
| 80°-90°   | 189.8  | 7.3       |
| 90°-100°  | 58.1   | 2.2       |
| 100°-110° | 22.9   | 0.9       |
| 110°-120° | 10.1   | 0.4       |
| 120°-130° | 5.0    | 0.2       |
| 130°-140° | 2.5    | 0.1       |
| 140°-150° | 0.8    | 0.0       |
| 150°-160° | 0.1    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2485.8 | 96.2      |
| 0°-180°   | 2585.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P266301

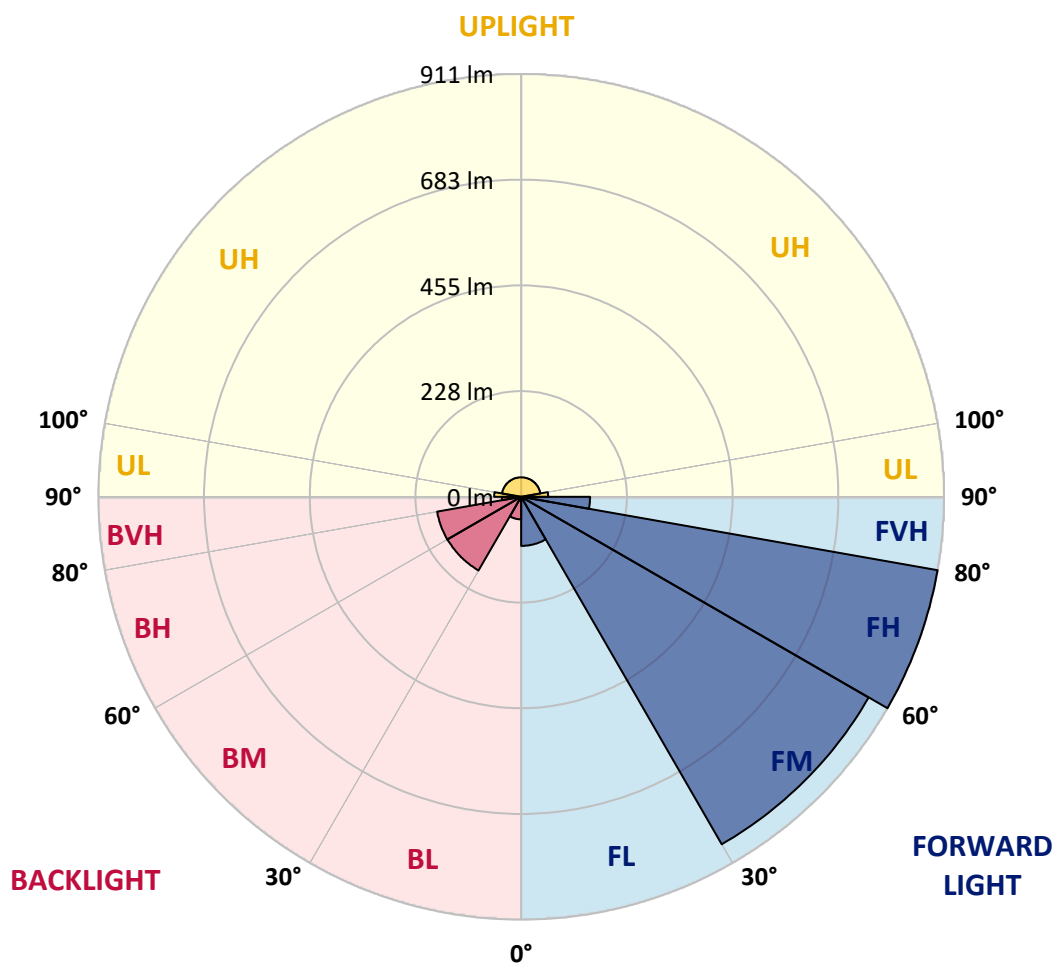
CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 105.7  | 4.1       |                         |        |         |
| FM   | (30°-60°)   | 864.1  | 33.4      |                         |        |         |
| FH   | (60°-80°)   | 910.7  | 35.2      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 148.3  | 5.7       |                         |        | G2/225  |
| BL   | (0°-30°)    | 48.6   | 1.9       | B0/110                  |        |         |
| BM   | (30°-60°)   | 183.2  | 7.1       | B0/220                  |        |         |
| BH   | (60°-80°)   | 183.8  | 7.1       | B1/500                  |        | G1/500  |
| BVH  | (80°-90°)   | 41.4   | 1.6       |                         |        | G1/100  |
| UL   | (90°-100°)  | 58.1   | 2.2       |                         | U3/500 |         |
| UH   | (100°-180°) | 42.0   | 1.6       |                         | U2/50  |         |

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

Type IV Medium





REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°   | 25°   | 35°   | 45°    | 55°    | 65°    | 68°    | 75°    | 85°    |
|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 86.9   | 86.9   | 86.9  | 86.9  | 86.9  | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   |
| 2.5°   | 96.7   | 96.9   | 96.9  | 95.9  | 95.7  | 94.6   | 93.0   | 92.3   | 91.5   | 90.9   | 89.7   |
| 5°     | 109.6  | 109.6  | 108.9 | 107.8 | 106.4 | 105.5  | 103.8  | 101.8  | 101.4  | 99.1   | 96.7   |
| 7.5°   | 124.1  | 124.3  | 124.8 | 123.1 | 121.0 | 119.4  | 117.3  | 114.5  | 113.9  | 111.5  | 107.2  |
| 10°    | 143.3  | 143.6  | 143.0 | 141.3 | 138.6 | 136.5  | 134.1  | 131.5  | 130.4  | 128.5  | 122.3  |
| 12.5°  | 166.6  | 166.2  | 164.3 | 162.0 | 158.9 | 156.5  | 153.4  | 151.5  | 150.7  | 148.7  | 142.3  |
| 15°    | 191.2  | 192.6  | 190.4 | 185.0 | 181.2 | 177.4  | 176.1  | 176.1  | 176.7  | 174.5  | 168.3  |
| 17.5°  | 223.0  | 224.0  | 220.1 | 212.5 | 206.5 | 202.5  | 201.1  | 203.8  | 204.9  | 205.8  | 200.4  |
| 20°    | 259.9  | 260.2  | 253.9 | 243.4 | 232.5 | 227.5  | 227.8  | 234.2  | 236.7  | 240.2  | 233.9  |
| 22.5°  | 304.9  | 302.2  | 293.0 | 276.8 | 261.2 | 253.1  | 256.1  | 269.0  | 271.1  | 278.8  | 275.5  |
| 25°    | 351.9  | 351.4  | 336.2 | 314.6 | 291.9 | 281.6  | 286.6  | 302.5  | 308.3  | 320.1  | 315.7  |
| 27.5°  | 405.9  | 404.5  | 385.0 | 358.2 | 327.5 | 312.0  | 316.4  | 339.0  | 345.8  | 365.7  | 360.9  |
| 30°    | 463.3  | 463.7  | 440.8 | 403.6 | 365.4 | 343.7  | 346.4  | 377.8  | 386.7  | 409.6  | 408.3  |
| 32.5°  | 531.9  | 527.9  | 502.2 | 453.6 | 406.7 | 377.2  | 380.9  | 417.4  | 429.6  | 457.0  | 452.9  |
| 35°    | 601.0  | 595.8  | 561.7 | 508.4 | 449.5 | 414.7  | 416.5  | 459.7  | 472.5  | 508.0  | 500.3  |
| 37.5°  | 664.4  | 661.8  | 627.6 | 566.1 | 497.5 | 456.2  | 458.3  | 504.9  | 521.1  | 560.7  | 551.3  |
| 40°    | 732.7  | 732.7  | 698.0 | 631.0 | 550.9 | 501.3  | 504.3  | 555.3  | 574.9  | 618.3  | 602.4  |
| 42.5°  | 805.2  | 802.7  | 765.9 | 690.2 | 604.0 | 549.6  | 555.6  | 612.1  | 634.1  | 680.0  | 663.8  |
| 45°    | 876.4  | 871.4  | 833.2 | 754.3 | 657.1 | 604.0  | 613.2  | 674.3  | 697.3  | 755.7  | 733.0  |
| 47.5°  | 937.9  | 932.5  | 895.0 | 812.2 | 712.9 | 660.4  | 673.3  | 746.6  | 770.9  | 840.6  | 806.0  |
| 50°    | 981.8  | 980.2  | 943.7 | 858.2 | 762.5 | 718.6  | 745.7  | 823.7  | 852.8  | 923.1  | 890.6  |
| 52.5°  | 1007.5 | 1004.6 | 975.5 | 899.7 | 812.2 | 778.7  | 820.0  | 907.5  | 938.3  | 1013.9 | 976.1  |
| 55°    | 1001.8 | 999.8  | 979.2 | 921.8 | 851.1 | 836.5  | 902.4  | 1000.8 | 1029.5 | 1111.4 | 1066.4 |
| 57.5°  | 956.5  | 959.2  | 953.1 | 923.1 | 879.8 | 896.4  | 987.0  | 1099.2 | 1129.6 | 1209.4 | 1161.4 |
| 60°    | 875.8  | 874.7  | 891.9 | 897.0 | 891.3 | 948.2  | 1089.0 | 1211.4 | 1234.7 | 1315.1 | 1253.9 |
| 62.5°  | 756.5  | 753.7  | 791.2 | 839.6 | 882.9 | 991.6  | 1180.9 | 1331.0 | 1354.4 | 1419.2 | 1339.5 |
| 65°    | 610.0  | 622.3  | 669.2 | 748.9 | 841.0 | 1008.3 | 1270.2 | 1453.1 | 1472.3 | 1506.7 | 1406.7 |
| 67.5°  | 462.4  | 474.2  | 535.0 | 636.1 | 770.9 | 988.9  | 1326.9 | 1562.5 | 1581.1 | 1590.3 | 1436.1 |
| 70°    | 337.7  | 349.1  | 406.7 | 517.5 | 676.0 | 933.2  | 1331.4 | 1609.9 | 1626.8 | 1604.5 | 1392.9 |
| 72.5°  | 240.2  | 246.3  | 295.7 | 400.9 | 567.8 | 835.6  | 1276.0 | 1579.4 | 1593.4 | 1531.4 | 1278.6 |
| 75°    | 170.0  | 172.7  | 215.4 | 304.9 | 462.4 | 725.0  | 1144.1 | 1443.2 | 1454.0 | 1376.4 | 1087.3 |
| 77.5°  | 115.9  | 122.0  | 155.9 | 232.5 | 370.8 | 595.1  | 969.7  | 1237.3 | 1237.3 | 1138.7 | 860.1  |
| 80°    | 82.1   | 87.1   | 111.8 | 173.7 | 290.3 | 476.9  | 783.5  | 983.3  | 967.7  | 855.7  | 619.9  |
| 82.5°  | 59.2   | 63.2   | 82.9  | 132.5 | 225.5 | 376.8  | 594.5  | 728.0  | 706.7  | 597.3  | 409.6  |
| 85°    | 42.8   | 47.0   | 62.9  | 97.3  | 172.7 | 292.4  | 445.5  | 505.7  | 484.6  | 395.9  | 266.0  |
| 87.5°  | 31.4   | 34.1   | 47.0  | 73.3  | 130.9 | 221.4  | 326.9  | 343.4  | 324.7  | 255.8  | 170.7  |
| 90°    | 22.3   | 24.7   | 35.8  | 55.4  | 98.1  | 166.2  | 229.4  | 225.5  | 205.2  | 160.8  | 112.8  |
| 92.5°  | 16.2   | 18.0   | 26.7  | 42.2  | 73.0  | 122.0  | 157.8  | 145.6  | 134.1  | 103.5  | 78.4   |
| 95°    | 12.1   | 13.6   | 21.0  | 32.8  | 53.8  | 85.9   | 106.4  | 95.7   | 86.9   | 70.6   | 57.9   |
| 97.5°  | 9.8    | 10.8   | 17.2  | 26.4  | 41.6  | 62.5   | 73.8   | 63.2   | 59.2   | 51.1   | 44.6   |
| 100°   | 8.4    | 9.2    | 14.6  | 22.0  | 32.8  | 47.0   | 52.0   | 44.2   | 42.0   | 38.5   | 34.9   |
| 102.5° | 7.7    | 8.2    | 12.8  | 19.0  | 26.7  | 35.2   | 37.5   | 33.1   | 31.4   | 29.5   | 27.4   |
| 105°   | 7.0    | 7.5    | 11.5  | 16.6  | 22.6  | 27.4   | 28.7   | 25.3   | 24.3   | 22.3   | 21.0   |
| 107.5° | 6.7    | 6.7    | 10.2  | 14.6  | 19.3  | 22.6   | 22.6   | 19.9   | 19.0   | 16.9   | 16.2   |
| 110°   | 6.4    | 6.4    | 9.2   | 13.1  | 16.6  | 19.3   | 18.5   | 15.9   | 14.9   | 12.8   | 12.4   |



REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25°  | 35°  | 45°  | 55°  | 65°  | 68°  | 75° | 85° |
|--------|-----|-----|-----|------|------|------|------|------|------|-----|-----|
| 112.5° | 6.1 | 6.1 | 8.4 | 11.5 | 14.6 | 16.2 | 15.5 | 12.8 | 11.9 | 9.8 | 9.8 |
| 115°   | 5.7 | 5.7 | 7.5 | 10.2 | 12.8 | 13.8 | 13.1 | 10.5 | 9.8  | 7.7 | 8.2 |
| 117.5° | 5.7 | 5.7 | 7.0 | 9.2  | 11.1 | 12.1 | 11.1 | 8.4  | 7.7  | 6.4 | 7.0 |
| 120°   | 5.4 | 5.4 | 6.4 | 8.2  | 9.8  | 10.5 | 9.4  | 7.0  | 6.4  | 5.4 | 6.1 |
| 122.5° | 5.4 | 5.4 | 6.1 | 7.0  | 8.9  | 9.2  | 8.2  | 6.1  | 5.4  | 4.8 | 5.4 |
| 125°   | 5.1 | 5.1 | 5.7 | 6.4  | 7.5  | 7.7  | 6.7  | 5.1  | 4.8  | 4.4 | 4.8 |
| 127.5° | 5.1 | 5.1 | 5.4 | 5.7  | 6.7  | 6.7  | 5.7  | 4.0  | 4.0  | 3.8 | 4.4 |
| 130°   | 4.8 | 5.1 | 5.1 | 5.4  | 5.7  | 5.7  | 4.8  | 3.4  | 3.4  | 3.4 | 4.0 |
| 132.5° | 4.8 | 4.8 | 4.8 | 4.8  | 5.1  | 4.8  | 3.8  | 3.1  | 3.1  | 3.1 | 3.8 |
| 135°   | 4.4 | 4.4 | 4.4 | 4.4  | 4.0  | 3.8  | 3.1  | 2.3  | 2.3  | 2.8 | 3.4 |
| 137.5° | 4.4 | 4.4 | 4.0 | 3.8  | 3.8  | 3.1  | 2.3  | 2.1  | 2.1  | 2.8 | 3.1 |
| 140°   | 4.0 | 4.0 | 3.8 | 3.4  | 2.8  | 2.3  | 1.6  | 1.6  | 1.6  | 2.1 | 2.3 |
| 142.5° | 3.4 | 3.4 | 3.4 | 2.8  | 2.1  | 1.3  | 1.0  | 1.0  | 1.3  | 1.6 | 2.1 |
| 145°   | 3.1 | 3.1 | 2.8 | 2.3  | 1.3  | 0.7  | 0.3  | 0.7  | 1.0  | 1.3 | 1.6 |
| 147.5° | 2.3 | 2.3 | 2.1 | 1.6  | 0.7  | 0.3  | 0.3  | 0.3  | 0.7  | 0.7 | 1.0 |
| 150°   | 1.6 | 1.6 | 1.6 | 1.0  | 0.3  | 0.0  | 0.0  | 0.3  | 0.3  | 0.3 | 0.7 |
| 152.5° | 1.3 | 1.3 | 1.0 | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3 | 0.3 |
| 155°   | 0.7 | 0.7 | 0.7 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.3 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.3 | 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 |





REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°   | 105°  | 115°  | 125°  | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|-------|-------|-------|-------|------|------|------|------|------|------|
| 0°     | 86.9   | 86.9  | 86.9  | 86.9  | 86.9  | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 |
| 2.5°   | 88.6   | 88.3  | 86.5  | 85.2  | 83.5  | 82.1 | 80.8 | 79.8 | 79.4 | 78.7 | 79.1 |
| 5°     | 94.6   | 93.2  | 89.9  | 86.9  | 83.5  | 80.5 | 77.8 | 75.6 | 74.0 | 73.3 | 73.0 |
| 7.5°   | 105.1  | 103.0 | 96.9  | 91.5  | 86.1  | 80.8 | 76.4 | 73.0 | 71.0 | 69.6 | 69.6 |
| 10°    | 120.4  | 115.9 | 108.2 | 99.1  | 89.9  | 82.1 | 76.0 | 71.3 | 68.4 | 67.3 | 67.3 |
| 12.5°  | 138.9  | 134.1 | 122.0 | 108.2 | 95.3  | 84.5 | 76.4 | 71.3 | 68.4 | 67.0 | 66.6 |
| 15°    | 163.6  | 156.5 | 138.6 | 118.9 | 100.4 | 86.5 | 76.7 | 71.7 | 69.6 | 69.0 | 69.0 |
| 17.5°  | 192.6  | 183.9 | 157.8 | 130.9 | 106.1 | 87.6 | 77.8 | 73.8 | 72.7 | 72.7 | 72.7 |
| 20°    | 227.1  | 214.2 | 179.5 | 141.3 | 110.2 | 88.6 | 78.4 | 75.4 | 75.4 | 76.0 | 76.4 |
| 22.5°  | 264.0  | 247.8 | 200.4 | 151.1 | 111.5 | 89.2 | 78.1 | 76.0 | 77.8 | 79.4 | 79.8 |
| 25°    | 303.2  | 280.5 | 219.4 | 157.2 | 112.2 | 87.6 | 77.1 | 76.4 | 79.8 | 82.1 | 82.9 |
| 27.5°  | 344.8  | 314.0 | 235.5 | 159.4 | 110.2 | 84.5 | 75.4 | 75.6 | 80.8 | 84.1 | 84.8 |
| 30°    | 382.9  | 345.4 | 248.4 | 158.9 | 105.8 | 80.8 | 73.3 | 74.6 | 80.8 | 85.5 | 86.5 |
| 32.5°  | 422.6  | 376.5 | 256.1 | 155.9 | 100.4 | 76.7 | 71.0 | 73.8 | 80.5 | 85.9 | 86.9 |
| 35°    | 462.1  | 403.9 | 259.9 | 149.7 | 94.3  | 73.0 | 68.6 | 72.0 | 79.4 | 85.5 | 86.1 |
| 37.5°  | 501.6  | 430.9 | 261.0 | 141.9 | 88.9  | 70.0 | 67.0 | 71.0 | 77.8 | 84.8 | 85.9 |
| 40°    | 544.2  | 457.6 | 258.9 | 134.1 | 83.8  | 67.9 | 65.5 | 69.6 | 76.4 | 83.8 | 85.2 |
| 42.5°  | 591.9  | 486.1 | 256.6 | 126.4 | 80.5  | 66.6 | 64.6 | 68.4 | 74.4 | 82.9 | 84.5 |
| 45°    | 645.0  | 517.2 | 255.2 | 120.4 | 78.4  | 65.9 | 64.1 | 67.3 | 73.3 | 82.1 | 83.8 |
| 47.5°  | 702.0  | 556.3 | 256.6 | 116.3 | 77.4  | 66.3 | 64.1 | 66.6 | 72.0 | 80.8 | 82.9 |
| 50°    | 771.6  | 601.2 | 261.5 | 113.2 | 77.1  | 66.6 | 64.6 | 65.9 | 70.6 | 78.7 | 80.8 |
| 52.5°  | 843.7  | 647.3 | 269.8 | 112.6 | 77.4  | 67.3 | 64.9 | 65.5 | 68.6 | 76.0 | 77.8 |
| 55°    | 918.3  | 708.1 | 283.5 | 113.5 | 78.1  | 68.4 | 65.2 | 64.9 | 67.0 | 72.7 | 74.6 |
| 57.5°  | 1002.8 | 771.4 | 300.8 | 115.9 | 79.1  | 69.0 | 65.5 | 64.1 | 64.9 | 69.6 | 71.3 |
| 60°    | 1086.7 | 835.6 | 318.4 | 118.9 | 81.0  | 70.0 | 65.9 | 63.9 | 63.9 | 67.6 | 69.0 |
| 62.5°  | 1162.6 | 891.9 | 332.9 | 123.1 | 82.9  | 70.6 | 65.9 | 63.2 | 62.9 | 65.9 | 67.3 |
| 65°    | 1214.8 | 921.8 | 336.2 | 125.5 | 84.5  | 71.0 | 65.2 | 62.5 | 62.3 | 64.6 | 65.9 |
| 67.5°  | 1228.6 | 917.0 | 329.6 | 126.4 | 85.5  | 71.0 | 65.2 | 61.9 | 62.3 | 64.1 | 65.2 |
| 70°    | 1174.5 | 867.9 | 307.2 | 124.3 | 85.2  | 70.6 | 64.6 | 61.2 | 61.9 | 63.9 | 64.6 |
| 72.5°  | 1045.4 | 766.6 | 272.7 | 119.4 | 83.5  | 69.3 | 63.2 | 60.1 | 61.2 | 63.5 | 64.1 |
| 75°    | 877.5  | 635.1 | 231.9 | 111.2 | 80.5  | 67.6 | 61.9 | 58.7 | 60.5 | 62.9 | 63.2 |
| 77.5°  | 674.9  | 486.7 | 189.6 | 100.7 | 76.4  | 65.2 | 59.8 | 56.9 | 59.2 | 61.9 | 61.5 |
| 80°    | 479.2  | 354.9 | 149.7 | 89.9  | 71.0  | 61.9 | 57.1 | 54.3 | 57.1 | 59.8 | 59.2 |
| 82.5°  | 330.2  | 240.7 | 119.7 | 79.4  | 65.2  | 58.1 | 54.1 | 51.7 | 54.7 | 57.1 | 56.1 |
| 85°    | 216.3  | 162.6 | 94.3  | 69.6  | 59.8  | 54.3 | 50.8 | 48.2 | 51.4 | 53.4 | 52.0 |
| 87.5°  | 139.5  | 113.2 | 75.4  | 60.5  | 54.1  | 50.3 | 47.0 | 44.9 | 48.0 | 49.6 | 48.2 |
| 90°    | 96.9   | 82.5  | 62.3  | 52.5  | 48.7  | 46.0 | 43.3 | 41.2 | 43.9 | 45.3 | 44.6 |
| 92.5°  | 69.3   | 63.2  | 51.7  | 46.0  | 43.9  | 41.6 | 39.2 | 37.5 | 40.2 | 41.2 | 40.6 |
| 95°    | 54.1   | 50.3  | 43.9  | 40.6  | 39.5  | 37.9 | 35.6 | 33.7 | 35.8 | 36.6 | 36.1 |
| 97.5°  | 43.3   | 41.6  | 37.9  | 35.8  | 35.2  | 33.7 | 32.1 | 30.5 | 31.8 | 32.1 | 31.8 |
| 100°   | 34.9   | 34.1  | 32.5  | 31.4  | 31.1  | 30.1 | 28.3 | 26.9 | 27.7 | 27.4 | 27.4 |
| 102.5° | 27.7   | 27.7  | 27.4  | 26.9  | 26.9  | 26.1 | 24.7 | 23.4 | 23.4 | 22.6 | 22.6 |
| 105°   | 22.0   | 22.6  | 22.6  | 22.9  | 23.4  | 22.6 | 21.3 | 19.7 | 19.3 | 18.2 | 18.2 |
| 107.5° | 17.2   | 18.0  | 19.0  | 19.3  | 19.7  | 19.0 | 18.0 | 16.2 | 15.2 | 14.3 | 14.6 |
| 110°   | 13.6   | 14.3  | 15.5  | 16.2  | 16.6  | 16.2 | 14.9 | 13.6 | 11.9 | 11.1 | 11.5 |



REPORT NUMBER: P266301

CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-TL-7027

**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 10.5 | 11.5 | 12.8 | 13.6 | 13.8 | 13.6 | 12.1 | 10.8 | 9.2  | 8.9  | 8.9  |
| 115°   | 8.9  | 9.4  | 10.8 | 11.5 | 11.5 | 11.1 | 10.2 | 8.4  | 7.0  | 6.7  | 7.0  |
| 117.5° | 7.5  | 8.2  | 9.2  | 9.8  | 9.8  | 9.4  | 8.4  | 6.7  | 5.7  | 5.7  | 5.7  |
| 120°   | 6.4  | 7.0  | 7.7  | 8.4  | 8.4  | 8.2  | 7.0  | 5.4  | 4.8  | 4.8  | 4.8  |
| 122.5° | 5.7  | 6.1  | 6.7  | 7.0  | 7.0  | 6.7  | 5.7  | 4.4  | 3.8  | 4.0  | 4.0  |
| 125°   | 5.1  | 5.4  | 6.1  | 6.4  | 6.1  | 5.7  | 4.8  | 3.4  | 3.1  | 3.4  | 3.4  |
| 127.5° | 4.8  | 5.1  | 5.4  | 5.4  | 5.4  | 4.8  | 4.0  | 2.8  | 2.8  | 3.1  | 3.1  |
| 130°   | 4.4  | 4.4  | 4.8  | 4.8  | 4.4  | 4.0  | 3.1  | 2.1  | 2.1  | 2.8  | 2.8  |
| 132.5° | 4.0  | 4.0  | 4.4  | 4.0  | 4.0  | 3.4  | 2.3  | 1.6  | 2.1  | 2.3  | 2.3  |
| 135°   | 3.4  | 3.4  | 3.8  | 3.8  | 3.1  | 2.8  | 1.6  | 1.3  | 1.3  | 1.6  | 2.1  |
| 137.5° | 3.1  | 3.4  | 3.4  | 3.1  | 2.8  | 2.1  | 1.3  | 1.0  | 1.3  | 1.3  | 1.6  |
| 140°   | 2.8  | 2.8  | 2.8  | 2.3  | 2.1  | 1.3  | 0.7  | 0.7  | 1.0  | 1.0  | 1.0  |
| 142.5° | 2.1  | 2.3  | 2.3  | 2.1  | 1.3  | 0.7  | 0.3  | 0.3  | 0.7  | 0.7  | 0.7  |
| 145°   | 1.6  | 1.6  | 1.6  | 1.3  | 1.0  | 0.7  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  |
| 147.5° | 1.0  | 1.3  | 1.3  | 1.0  | 0.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.7  | 0.7  | 1.0  | 0.7  | 0.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.3  | 0.7  | 0.7  | 0.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.3  | 0.3  | 0.7  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.3  | 0.3  | 0.3  | 0.3  | 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)