

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: P266274

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

### Test Information

Test Method: LM-79-08  
Report Number: P266274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-20-D-U-T2U-TL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 1928.6 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U2 - G1

Input Watts (W): 21  
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

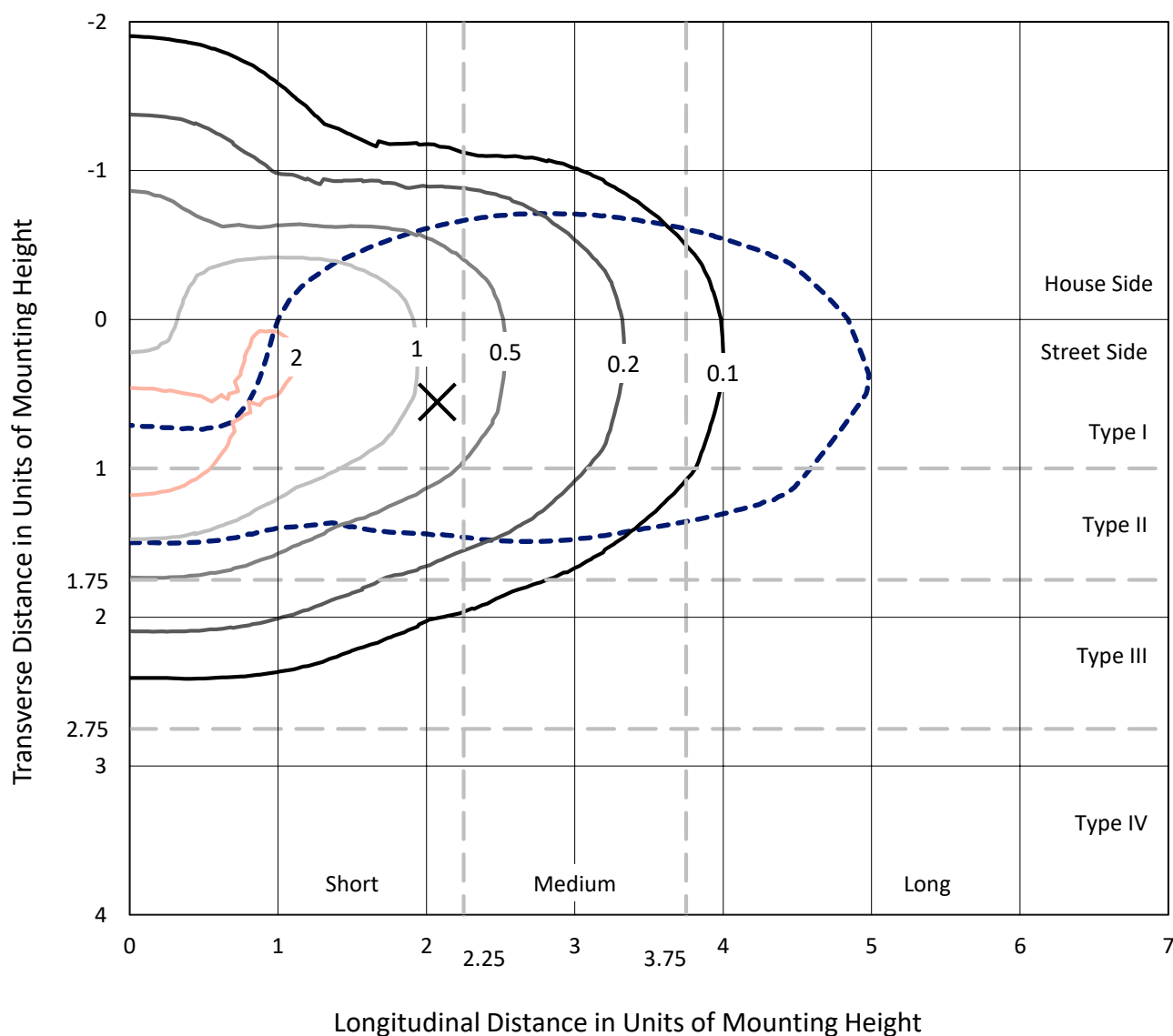


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

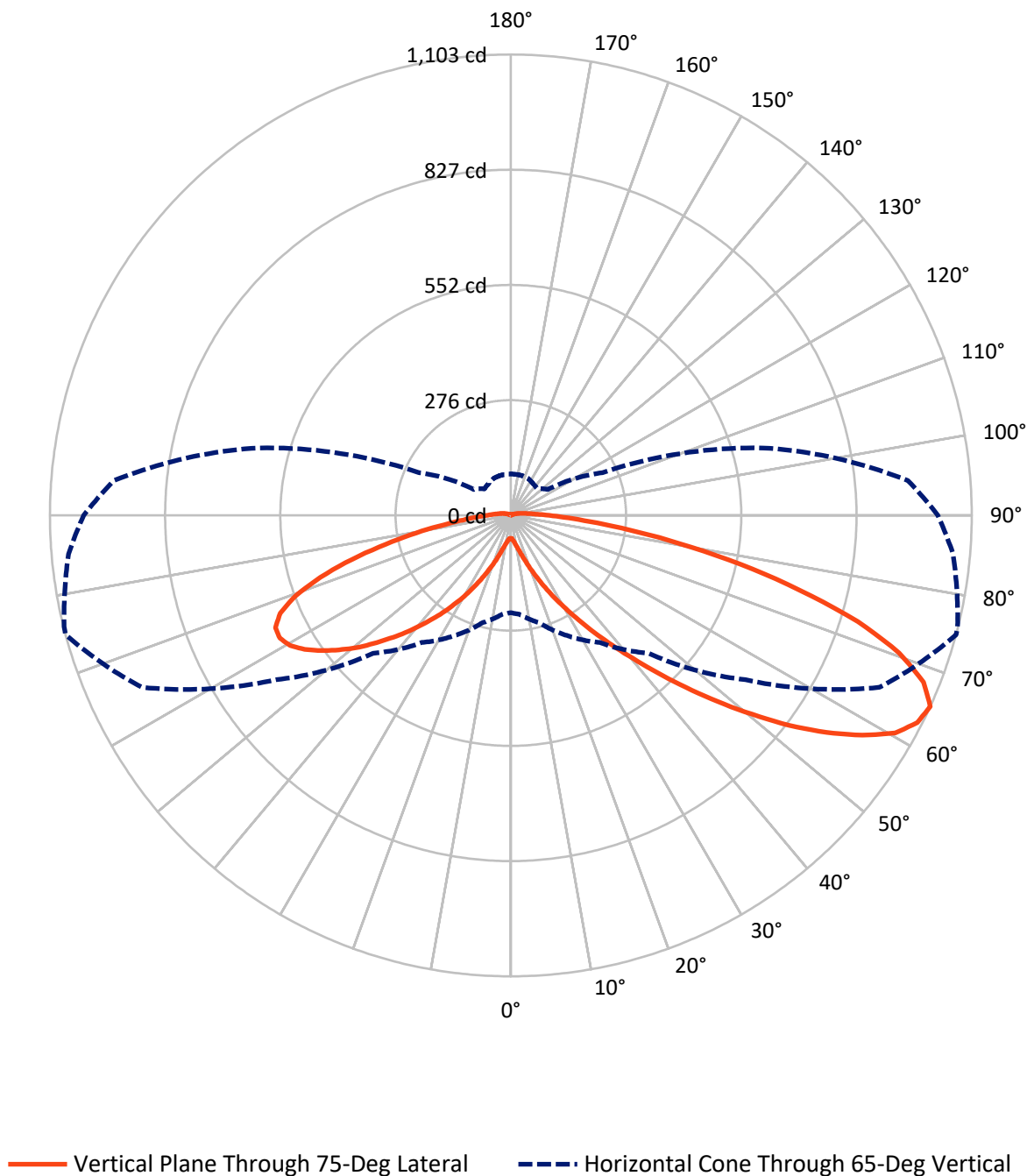


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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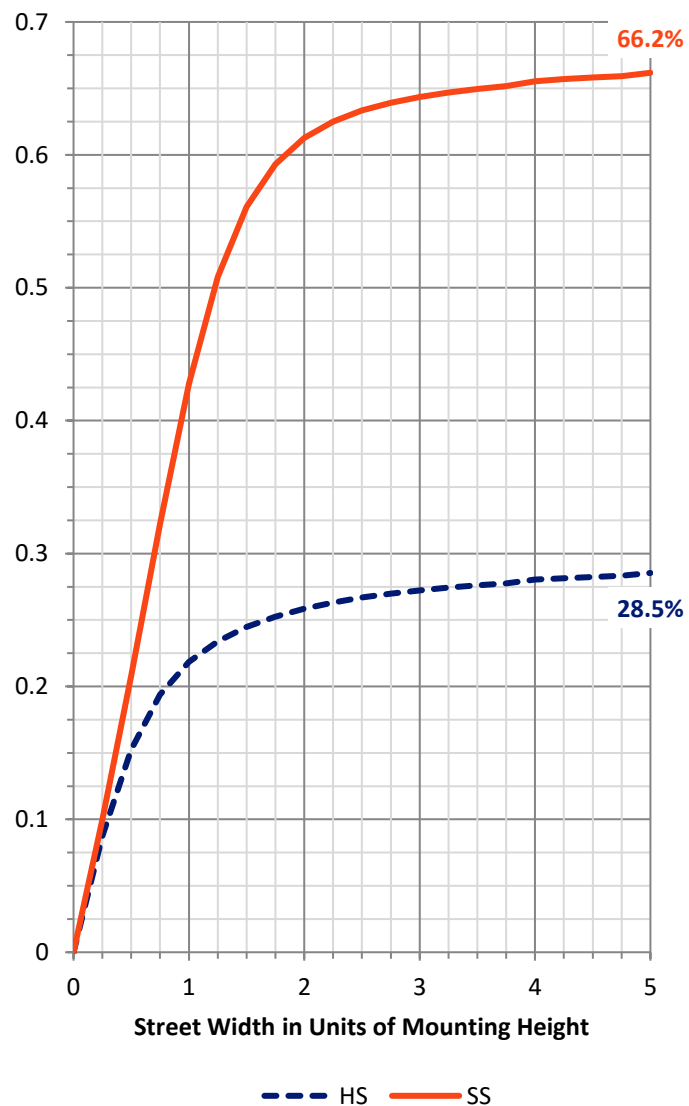
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 569.5    | 34.1   | 603.6  |
|                    | % Fixture | 29.5     | 1.8    | 31.3   |
| <b>Street Side</b> | Lumens    | 1294.3   | 30.7   | 1325.0 |
|                    | % Fixture | 67.1     | 1.6    | 68.7   |
| <b>Total</b>       | Lumens    | 1863.7   | 64.8   | 1928.6 |
|                    | % Fixture | 96.6     | 3.4    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.0    | 0.3       |
| 10°-20°   | 27.9   | 1.4       |
| 20°-30°   | 81.3   | 4.2       |
| 30°-40°   | 182.4  | 9.5       |
| 40°-50°   | 324.6  | 16.8      |
| 50°-60°   | 441.2  | 22.9      |
| 60°-70°   | 428.4  | 22.2      |
| 70°-80°   | 270.0  | 14.0      |
| 80°-90°   | 101.8  | 5.3       |
| 90°-100°  | 34.7   | 1.8       |
| 100°-110° | 15.7   | 0.8       |
| 110°-120° | 7.6    | 0.4       |
| 120°-130° | 4.0    | 0.2       |
| 130°-140° | 2.1    | 0.1       |
| 140°-150° | 0.7    | 0.0       |
| 150°-160° | 0.1    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 1863.7 | 96.6      |
| 0°-180°   | 1928.6 | 100.0     |

**Coefficient of Utilization**



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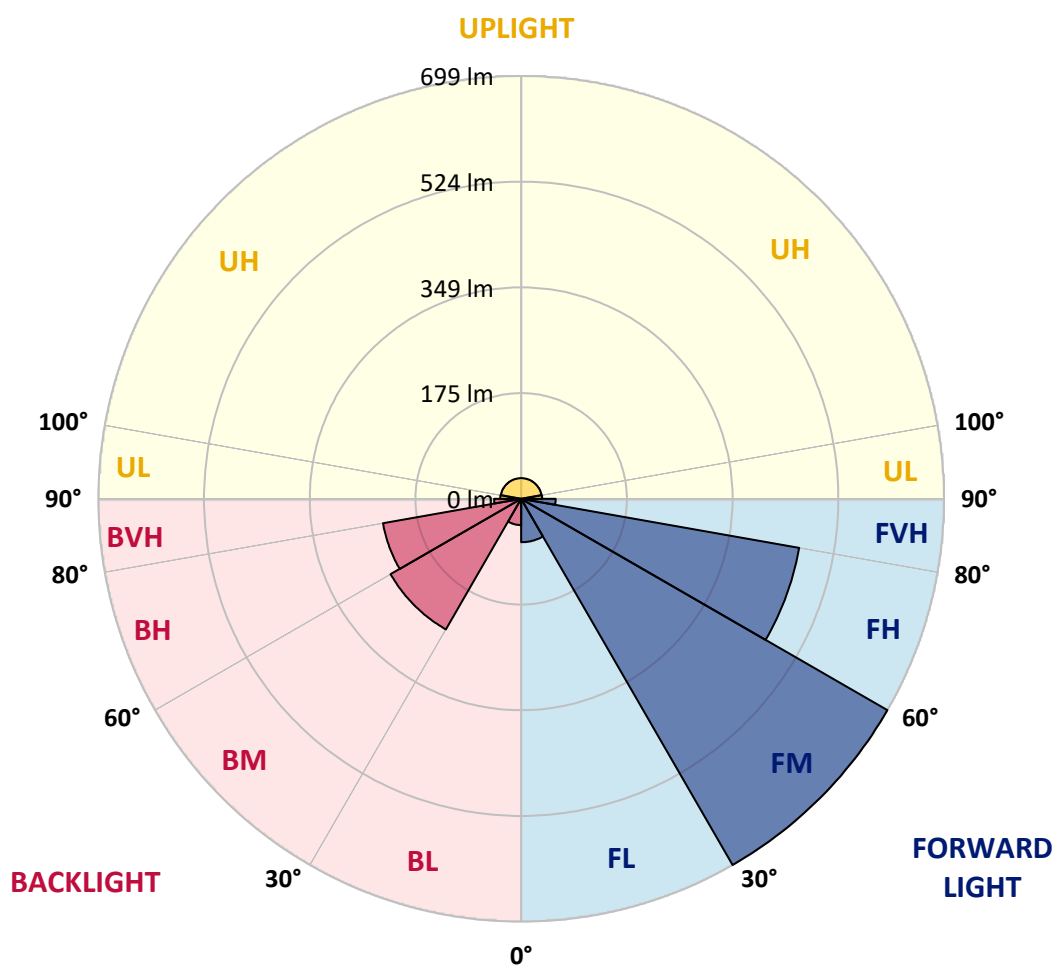
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |        |
|------|-------------|--------|-----------|-------------------------|-------|--------|
|      |             |        |           | B                       | U     | G      |
| FL   | (0°-30°)    | 71.8   | 3.7       |                         |       |        |
| FM   | (30°-60°)   | 698.9  | 36.2      |                         |       |        |
| FH   | (60°-80°)   | 466.5  | 24.2      |                         |       | G0/660 |
| FVH  | (80°-90°)   | 57.0   | 3.0       |                         |       | G1/100 |
| BL   | (0°-30°)    | 43.4   | 2.3       | B0/110                  |       |        |
| BM   | (30°-60°)   | 249.3  | 12.9      | B1/1000                 |       |        |
| BH   | (60°-80°)   | 231.9  | 12.0      | B1/500                  |       | G1/500 |
| BVH  | (80°-90°)   | 44.8   | 2.3       |                         |       | G1/100 |
| UL   | (90°-100°)  | 34.7   | 1.8       |                         | U2/50 |        |
| UH   | (100°-180°) | 34.1   | 1.8       |                         | U2/50 |        |

**BUG Rating: B1-U2-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°    | 75°    | 76°    | 85°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°     | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8   | 54.8   | 54.8   | 54.8   |
| 2.5°   | 59.6  | 59.4  | 59.4  | 59.4  | 58.8  | 58.5  | 57.8  | 57.2   | 56.6   | 56.2   | 56.1   |
| 5°     | 65.9  | 65.9  | 65.7  | 65.4  | 64.9  | 63.8  | 62.5  | 61.7   | 60.4   | 60.1   | 59.2   |
| 7.5°   | 75.8  | 75.5  | 75.4  | 74.2  | 73.4  | 71.8  | 69.8  | 68.4   | 66.1   | 66.1   | 64.8   |
| 10°    | 88.9  | 88.5  | 87.7  | 86.4  | 83.8  | 81.7  | 79.5  | 76.8   | 74.6   | 74.4   | 72.3   |
| 12.5°  | 104.4 | 104.4 | 103.3 | 101.0 | 97.6  | 94.4  | 90.8  | 87.9   | 85.0   | 84.8   | 82.9   |
| 15°    | 125.7 | 125.9 | 122.7 | 119.0 | 114.3 | 109.5 | 104.8 | 102.1  | 98.9   | 99.5   | 96.8   |
| 17.5°  | 152.0 | 151.5 | 148.8 | 141.6 | 133.6 | 127.3 | 122.0 | 119.0  | 116.4  | 116.7  | 114.8  |
| 20°    | 185.1 | 184.5 | 179.9 | 170.3 | 157.3 | 147.9 | 141.6 | 139.5  | 138.2  | 137.4  | 135.6  |
| 22.5°  | 225.8 | 223.4 | 214.2 | 201.7 | 185.9 | 172.5 | 165.6 | 162.9  | 162.4  | 162.6  | 160.6  |
| 25°    | 271.5 | 270.5 | 258.9 | 238.9 | 218.6 | 201.2 | 190.8 | 190.4  | 191.1  | 189.8  | 189.8  |
| 27.5°  | 327.1 | 324.4 | 310.9 | 283.1 | 254.1 | 233.3 | 221.3 | 220.1  | 223.4  | 222.5  | 221.1  |
| 30°    | 392.0 | 387.9 | 369.6 | 334.1 | 296.9 | 269.1 | 255.1 | 255.1  | 258.7  | 258.7  | 258.3  |
| 32.5°  | 459.9 | 459.2 | 430.6 | 389.1 | 345.2 | 308.5 | 296.4 | 294.5  | 298.1  | 300.0  | 297.6  |
| 35°    | 536.2 | 530.7 | 497.8 | 450.7 | 393.9 | 353.7 | 338.7 | 341.3  | 344.2  | 344.4  | 340.5  |
| 37.5°  | 614.0 | 608.4 | 570.8 | 512.6 | 446.4 | 402.9 | 387.3 | 389.3  | 393.9  | 393.9  | 388.8  |
| 40°    | 680.6 | 674.5 | 637.6 | 577.0 | 504.3 | 457.7 | 441.2 | 446.8  | 450.1  | 451.2  | 443.0  |
| 42.5°  | 733.2 | 729.0 | 695.8 | 634.1 | 560.2 | 512.8 | 502.2 | 511.3  | 514.5  | 516.9  | 505.0  |
| 45°    | 762.8 | 759.2 | 736.3 | 680.5 | 607.0 | 567.9 | 569.7 | 580.9  | 587.0  | 584.3  | 571.5  |
| 47.5°  | 767.3 | 764.5 | 751.7 | 709.1 | 650.0 | 620.8 | 639.1 | 655.9  | 664.9  | 665.1  | 643.5  |
| 50°    | 738.9 | 740.1 | 740.4 | 715.9 | 674.2 | 663.8 | 703.8 | 741.3  | 748.3  | 744.4  | 718.9  |
| 52.5°  | 683.6 | 682.8 | 696.8 | 696.8 | 678.5 | 690.3 | 758.2 | 825.2  | 834.7  | 833.7  | 798.2  |
| 55°    | 601.4 | 602.1 | 628.3 | 648.8 | 655.6 | 695.8 | 802.6 | 900.9  | 916.9  | 915.5  | 876.2  |
| 57.5°  | 499.3 | 506.3 | 538.4 | 577.8 | 608.4 | 672.2 | 823.1 | 966.1  | 992.3  | 992.4  | 945.1  |
| 60°    | 399.9 | 407.2 | 444.8 | 495.1 | 539.6 | 626.6 | 809.5 | 1000.0 | 1057.2 | 1054.6 | 1004.3 |
| 62.5°  | 305.6 | 313.0 | 349.0 | 406.6 | 458.1 | 553.6 | 762.5 | 1007.0 | 1091.8 | 1090.1 | 1046.9 |
| 65°    | 232.7 | 237.4 | 266.3 | 316.9 | 371.2 | 466.4 | 685.4 | 973.7  | 1103.1 | 1102.0 | 1062.5 |
| 67.5°  | 173.9 | 176.1 | 203.6 | 244.3 | 291.5 | 377.3 | 579.0 | 893.5  | 1065.4 | 1066.6 | 1044.6 |
| 70°    | 133.8 | 135.3 | 155.2 | 190.8 | 225.8 | 295.0 | 469.0 | 777.8  | 986.2  | 989.4  | 988.7  |
| 72.5°  | 106.3 | 108.4 | 124.3 | 150.2 | 175.6 | 223.4 | 362.7 | 629.3  | 868.8  | 875.4  | 894.9  |
| 75°    | 87.7  | 90.1  | 102.1 | 121.2 | 139.5 | 170.0 | 263.7 | 482.7  | 714.2  | 727.9  | 771.5  |
| 77.5°  | 72.5  | 74.9  | 85.0  | 100.0 | 111.4 | 130.0 | 193.2 | 356.9  | 561.1  | 566.9  | 624.4  |
| 80°    | 59.4  | 61.7  | 70.7  | 82.4  | 90.5  | 101.5 | 140.9 | 250.6  | 409.2  | 416.5  | 472.5  |
| 82.5°  | 47.3  | 49.2  | 57.8  | 67.2  | 73.9  | 81.3  | 104.4 | 171.8  | 285.0  | 290.3  | 327.3  |
| 85°    | 36.6  | 38.4  | 45.6  | 53.9  | 59.6  | 65.7  | 79.9  | 119.6  | 188.6  | 194.9  | 222.1  |
| 87.5°  | 27.3  | 28.9  | 35.0  | 42.0  | 48.1  | 53.1  | 61.7  | 82.6   | 125.9  | 131.2  | 144.0  |
| 90°    | 20.0  | 21.3  | 26.6  | 31.9  | 37.4  | 42.9  | 48.2  | 60.4   | 83.8   | 86.0   | 95.0   |
| 92.5°  | 15.0  | 15.7  | 20.0  | 24.7  | 30.0  | 34.8  | 38.2  | 44.5   | 58.8   | 59.2   | 65.4   |
| 95°    | 11.0  | 11.9  | 15.5  | 19.4  | 24.0  | 28.4  | 31.4  | 34.6   | 43.3   | 43.9   | 47.8   |
| 97.5°  | 9.0   | 9.3   | 12.3  | 15.7  | 19.6  | 23.4  | 25.8  | 27.6   | 33.1   | 33.9   | 36.6   |
| 100°   | 7.5   | 7.7   | 10.4  | 13.2  | 16.7  | 20.0  | 21.6  | 22.5   | 26.1   | 26.8   | 28.7   |
| 102.5° | 6.5   | 6.5   | 9.0   | 11.6  | 14.6  | 16.9  | 18.1  | 18.5   | 21.0   | 21.0   | 22.5   |
| 105°   | 5.7   | 5.7   | 7.7   | 10.2  | 12.5  | 14.7  | 15.5  | 15.5   | 16.3   | 16.7   | 17.3   |
| 107.5° | 5.3   | 5.3   | 6.9   | 9.3   | 11.0  | 12.8  | 13.2  | 12.8   | 13.0   | 13.0   | 13.6   |
| 110°   | 4.9   | 4.9   | 6.1   | 8.3   | 9.9   | 11.0  | 11.4  | 10.9   | 10.2   | 10.2   | 10.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 4.3 | 4.6 | 5.6 | 7.2 | 8.8 | 9.9 | 9.9 | 9.3 | 7.9 | 7.9 | 8.4 |
| 115°   | 4.1 | 4.1 | 5.1 | 6.5 | 7.7 | 8.8 | 8.8 | 7.7 | 6.5 | 6.3 | 6.7 |
| 117.5° | 3.9 | 3.9 | 4.3 | 5.7 | 6.9 | 7.7 | 7.7 | 6.5 | 5.3 | 5.3 | 5.7 |
| 120°   | 3.7 | 3.7 | 4.1 | 5.3 | 6.3 | 6.9 | 6.7 | 5.7 | 4.6 | 4.6 | 5.1 |
| 122.5° | 3.7 | 3.7 | 3.9 | 4.9 | 5.6 | 6.1 | 5.7 | 4.9 | 3.9 | 3.9 | 4.3 |
| 125°   | 3.4 | 3.4 | 3.7 | 4.3 | 5.1 | 5.6 | 5.1 | 4.1 | 3.7 | 3.7 | 3.9 |
| 127.5° | 3.4 | 3.4 | 3.4 | 3.9 | 4.6 | 4.9 | 4.6 | 3.7 | 3.1 | 3.1 | 3.7 |
| 130°   | 3.1 | 3.1 | 3.4 | 3.7 | 4.1 | 4.3 | 3.9 | 3.1 | 3.0 | 3.0 | 3.4 |
| 132.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.4 | 3.7 | 3.1 | 2.4 | 2.6 | 2.6 | 3.0 |
| 135°   | 3.0 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 2.6 | 2.2 | 2.4 | 2.4 | 2.6 |
| 137.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.4 | 2.2 | 1.9 | 2.2 | 2.2 | 2.4 |
| 140°   | 2.4 | 2.4 | 2.4 | 2.2 | 1.9 | 1.9 | 1.6 | 1.4 | 1.6 | 1.6 | 1.9 |
| 142.5° | 2.2 | 2.2 | 2.2 | 1.9 | 1.6 | 1.4 | 1.2 | 1.2 | 1.4 | 1.4 | 1.6 |
| 145°   | 1.9 | 1.9 | 1.6 | 1.4 | 1.2 | 1.0 | 0.7 | 1.0 | 1.2 | 1.2 | 1.4 |
| 147.5° | 1.4 | 1.4 | 1.4 | 1.2 | 0.7 | 0.4 | 0.4 | 0.7 | 1.0 | 1.0 | 1.0 |
| 150°   | 1.2 | 1.2 | 1.2 | 1.0 | 0.4 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 0.7 |
| 152.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.2 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 0.4 |
| 155°   | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| 157.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 |
| 160°   | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 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°     | 54.8   | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  |
| 2.5°   | 55.8   | 55.5  | 55.1  | 54.5  | 54.1  | 53.5  | 53.1  | 52.9  | 52.5  | 52.5  | 52.5  |
| 5°     | 58.7   | 58.0  | 57.0  | 56.1  | 55.1  | 54.3  | 53.5  | 52.9  | 52.5  | 52.2  | 51.9  |
| 7.5°   | 64.0   | 63.1  | 61.4  | 59.8  | 58.2  | 56.8  | 55.5  | 54.5  | 54.1  | 53.9  | 53.9  |
| 10°    | 71.2   | 70.1  | 67.9  | 64.9  | 63.1  | 60.8  | 58.8  | 57.8  | 56.8  | 56.6  | 56.2  |
| 12.5°  | 80.8   | 79.7  | 76.0  | 72.9  | 69.3  | 65.9  | 63.8  | 62.3  | 61.7  | 61.4  | 61.4  |
| 15°    | 94.7   | 93.2  | 87.5  | 82.1  | 76.4  | 72.3  | 69.3  | 68.1  | 68.4  | 69.1  | 68.4  |
| 17.5°  | 111.7  | 109.7 | 102.9 | 94.2  | 85.5  | 79.2  | 76.5  | 76.8  | 77.8  | 78.5  | 78.2  |
| 20°    | 133.0  | 130.0 | 120.6 | 108.2 | 96.4  | 87.9  | 85.2  | 85.5  | 86.6  | 88.9  | 88.7  |
| 22.5°  | 157.9  | 153.2 | 141.0 | 124.3 | 107.7 | 98.1  | 93.2  | 94.0  | 96.6  | 98.9  | 98.9  |
| 25°    | 185.3  | 180.9 | 163.9 | 141.6 | 120.7 | 106.4 | 100.5 | 101.5 | 105.3 | 107.7 | 108.4 |
| 27.5°  | 217.6  | 210.8 | 189.6 | 160.6 | 133.0 | 114.1 | 106.4 | 107.0 | 111.7 | 115.0 | 115.4 |
| 30°    | 252.2  | 244.2 | 217.6 | 179.8 | 144.0 | 119.8 | 110.1 | 111.1 | 116.4 | 120.1 | 120.7 |
| 32.5°  | 291.1  | 281.6 | 246.9 | 199.8 | 154.1 | 123.2 | 112.1 | 113.0 | 118.5 | 122.7 | 123.2 |
| 35°    | 334.3  | 320.5 | 278.3 | 218.1 | 160.8 | 124.3 | 112.1 | 113.2 | 118.5 | 122.7 | 123.4 |
| 37.5°  | 378.2  | 362.7 | 308.9 | 235.7 | 165.0 | 123.4 | 110.4 | 111.7 | 116.7 | 120.6 | 121.2 |
| 40°    | 429.5  | 409.6 | 342.6 | 250.3 | 166.5 | 120.7 | 107.4 | 109.1 | 113.2 | 116.4 | 116.9 |
| 42.5°  | 487.9  | 459.9 | 377.7 | 262.6 | 164.2 | 117.4 | 104.7 | 106.4 | 110.0 | 112.1 | 112.3 |
| 45°    | 548.5  | 514.6 | 412.1 | 272.2 | 161.1 | 113.2 | 101.7 | 103.8 | 106.8 | 107.3 | 107.7 |
| 47.5°  | 614.0  | 576.4 | 449.5 | 278.0 | 155.5 | 109.0 | 99.5  | 101.7 | 103.7 | 103.3 | 103.7 |
| 50°    | 686.5  | 640.1 | 487.7 | 280.5 | 149.3 | 105.3 | 97.8  | 100.3 | 101.7 | 100.5 | 100.5 |
| 52.5°  | 757.2  | 709.9 | 522.5 | 281.3 | 142.3 | 102.0 | 96.6  | 99.5  | 100.3 | 99.1  | 99.1  |
| 55°    | 832.5  | 774.3 | 557.2 | 278.7 | 135.3 | 99.3  | 96.1  | 99.3  | 99.7  | 98.1  | 98.1  |
| 57.5°  | 902.2  | 843.1 | 588.6 | 274.6 | 128.7 | 96.8  | 95.4  | 99.1  | 99.5  | 98.1  | 98.4  |
| 60°    | 966.1  | 901.7 | 613.1 | 267.9 | 121.7 | 94.4  | 95.0  | 99.1  | 99.5  | 98.5  | 99.1  |
| 62.5°  | 1005.4 | 940.3 | 625.8 | 257.3 | 115.0 | 92.3  | 94.2  | 98.5  | 99.5  | 98.9  | 99.3  |
| 65°    | 1022.2 | 954.1 | 624.1 | 242.1 | 108.4 | 89.7  | 92.7  | 97.6  | 98.9  | 98.9  | 99.3  |
| 67.5°  | 1009.3 | 941.6 | 599.4 | 222.5 | 102.3 | 87.0  | 90.8  | 95.7  | 97.3  | 97.8  | 98.5  |
| 70°    | 961.8  | 889.6 | 550.0 | 197.8 | 95.8  | 84.0  | 88.5  | 93.0  | 95.0  | 95.8  | 96.4  |
| 72.5°  | 866.9  | 802.4 | 479.6 | 173.3 | 89.1  | 80.5  | 84.8  | 89.1  | 91.3  | 92.5  | 92.5  |
| 75°    | 746.3  | 681.9 | 395.0 | 147.1 | 82.9  | 76.4  | 80.5  | 84.0  | 86.4  | 87.7  | 87.1  |
| 77.5°  | 600.4  | 540.3 | 306.7 | 120.6 | 76.0  | 71.4  | 75.4  | 78.5  | 80.5  | 81.3  | 80.2  |
| 80°    | 444.9  | 406.6 | 230.4 | 99.5  | 69.3  | 65.9  | 69.1  | 71.8  | 73.9  | 73.8  | 72.8  |
| 82.5°  | 315.5  | 279.3 | 161.3 | 82.6  | 62.5  | 59.8  | 62.3  | 64.0  | 65.4  | 64.9  | 63.3  |
| 85°    | 210.2  | 186.5 | 114.1 | 67.5  | 55.5  | 53.4  | 54.8  | 55.8  | 56.6  | 55.3  | 54.1  |
| 87.5°  | 136.7  | 121.7 | 82.1  | 55.5  | 48.1  | 46.6  | 47.3  | 47.6  | 47.8  | 46.6  | 45.2  |
| 90°    | 89.4   | 83.2  | 61.2  | 46.0  | 41.3  | 40.3  | 40.3  | 39.3  | 39.6  | 38.2  | 36.7  |
| 92.5°  | 63.1   | 59.2  | 47.6  | 37.6  | 35.3  | 34.6  | 34.2  | 33.1  | 32.9  | 31.4  | 30.5  |
| 95°    | 47.2   | 45.5  | 38.4  | 31.9  | 30.0  | 29.7  | 29.3  | 27.9  | 27.0  | 25.6  | 25.2  |
| 97.5°  | 36.7   | 36.0  | 31.6  | 27.3  | 25.8  | 25.3  | 25.2  | 23.6  | 22.9  | 21.5  | 21.0  |
| 100°   | 29.3   | 29.3  | 26.6  | 23.4  | 22.2  | 22.0  | 21.6  | 20.3  | 19.6  | 18.1  | 17.8  |
| 102.5° | 23.4   | 23.6  | 22.2  | 20.3  | 19.4  | 18.9  | 18.3  | 17.3  | 16.2  | 15.2  | 15.2  |
| 105°   | 18.3   | 18.9  | 18.3  | 17.2  | 16.7  | 16.2  | 15.7  | 14.7  | 13.6  | 12.5  | 12.5  |
| 107.5° | 14.6   | 15.0  | 15.0  | 14.7  | 14.1  | 13.7  | 13.6  | 12.3  | 11.4  | 10.4  | 10.4  |
| 110°   | 11.0   | 11.9  | 12.3  | 12.3  | 12.3  | 11.9  | 11.4  | 10.6  | 9.4   | 8.8   | 8.8   |



REPORT NUMBER: P266274

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-TL-7027

**CANDELA DISTRIBUTION (continued):**

|        | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 9.0 | 9.4 | 10.2 | 10.4 | 10.4 | 10.4 | 9.9  | 8.8  | 7.7  | 7.2  | 7.5  |
| 115°   | 7.2 | 7.7 | 8.4  | 9.0  | 9.0  | 9.0  | 8.3  | 7.5  | 6.5  | 6.3  | 6.3  |
| 117.5° | 6.1 | 6.5 | 6.9  | 7.7  | 7.7  | 7.7  | 7.2  | 6.3  | 5.3  | 5.3  | 5.3  |
| 120°   | 5.3 | 5.6 | 6.3  | 6.5  | 6.7  | 6.7  | 6.3  | 5.3  | 4.6  | 4.6  | 4.9  |
| 122.5° | 4.6 | 4.9 | 5.3  | 5.7  | 6.1  | 5.7  | 5.3  | 4.3  | 3.9  | 4.1  | 4.1  |
| 125°   | 4.1 | 4.3 | 4.6  | 5.1  | 5.3  | 5.1  | 4.6  | 3.7  | 3.4  | 3.7  | 3.7  |
| 127.5° | 3.9 | 3.9 | 4.1  | 4.3  | 4.6  | 4.3  | 3.9  | 3.1  | 3.0  | 3.4  | 3.4  |
| 130°   | 3.4 | 3.7 | 3.7  | 3.9  | 3.9  | 3.9  | 3.4  | 2.6  | 2.6  | 3.0  | 3.0  |
| 132.5° | 3.1 | 3.1 | 3.1  | 3.4  | 3.4  | 3.1  | 2.6  | 2.2  | 2.4  | 2.6  | 2.6  |
| 135°   | 2.6 | 3.0 | 3.0  | 3.0  | 3.0  | 2.6  | 2.2  | 1.9  | 2.2  | 2.4  | 2.4  |
| 137.5° | 2.4 | 2.4 | 2.4  | 2.4  | 2.4  | 2.2  | 1.9  | 1.6  | 1.9  | 1.9  | 1.9  |
| 140°   | 1.9 | 2.2 | 2.2  | 1.9  | 1.9  | 1.6  | 1.4  | 1.2  | 1.4  | 1.6  | 1.6  |
| 142.5° | 1.6 | 1.6 | 1.6  | 1.6  | 1.4  | 1.2  | 1.0  | 1.0  | 1.2  | 1.2  | 1.2  |
| 145°   | 1.4 | 1.4 | 1.4  | 1.2  | 1.0  | 1.0  | 0.7  | 0.7  | 1.0  | 1.0  | 1.2  |
| 147.5° | 1.0 | 1.0 | 1.0  | 1.0  | 0.7  | 0.7  | 0.4  | 0.4  | 0.7  | 0.7  | 0.7  |
| 150°   | 0.7 | 0.7 | 0.7  | 0.7  | 0.4  | 0.4  | 0.4  | 0.2  | 0.4  | 0.4  | 0.4  |
| 152.5° | 0.4 | 0.4 | 0.4  | 0.4  | 0.4  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  |
| 155°   | 0.2 | 0.2 | 0.4  | 0.4  | 0.2  | 0.2  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.2 | 0.2 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.2 | 0.2 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.2 | 0.2 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 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)