

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: P240478

Luminaire Tested: **UTLD-AF24-20-D-U-T4W-TL**

Issue Date: 5/28/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P240478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)  
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-T4W-TL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2234.1 lumens  
Efficiency: N/A  
Efficacy: 106.4 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): 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

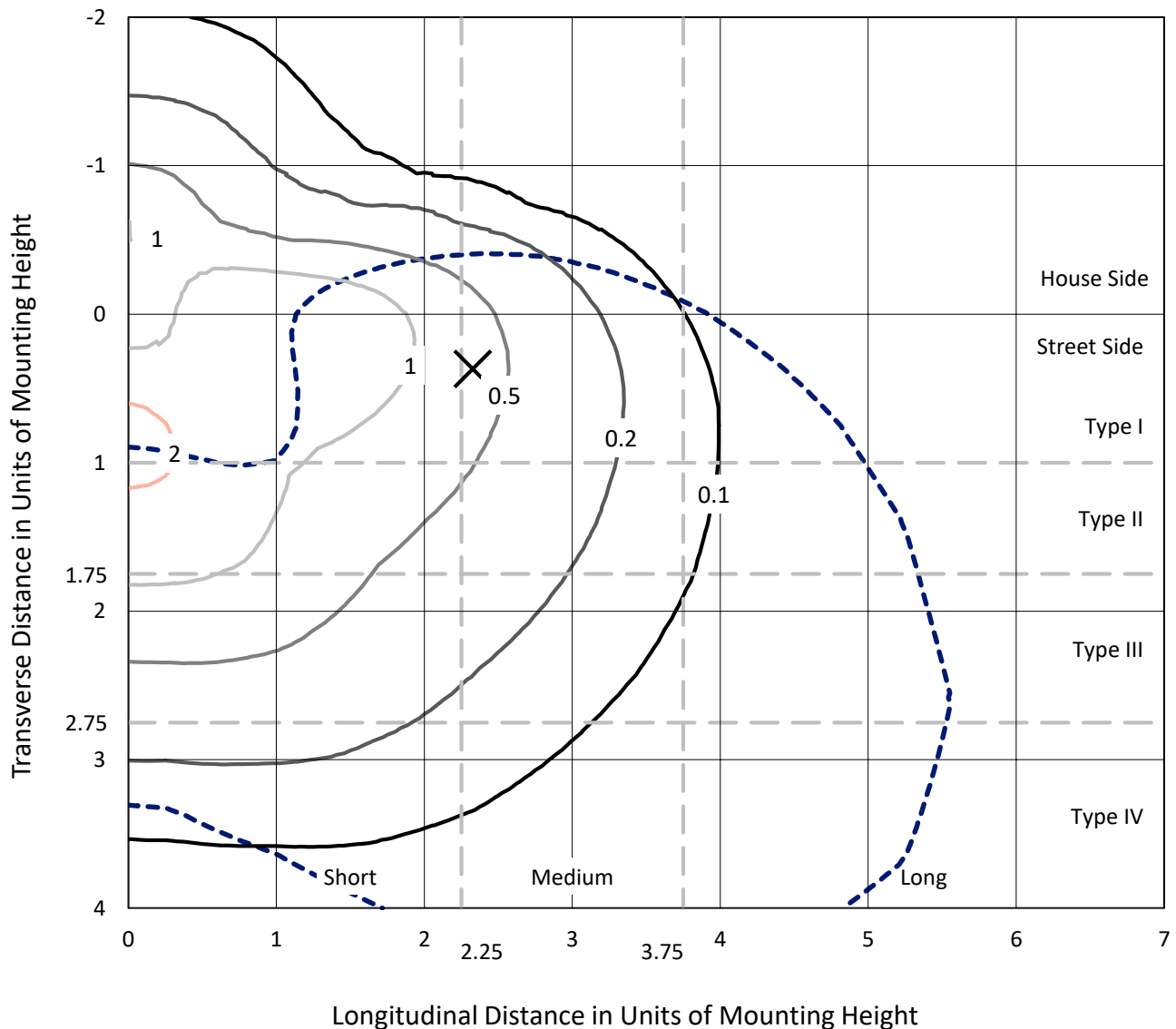


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

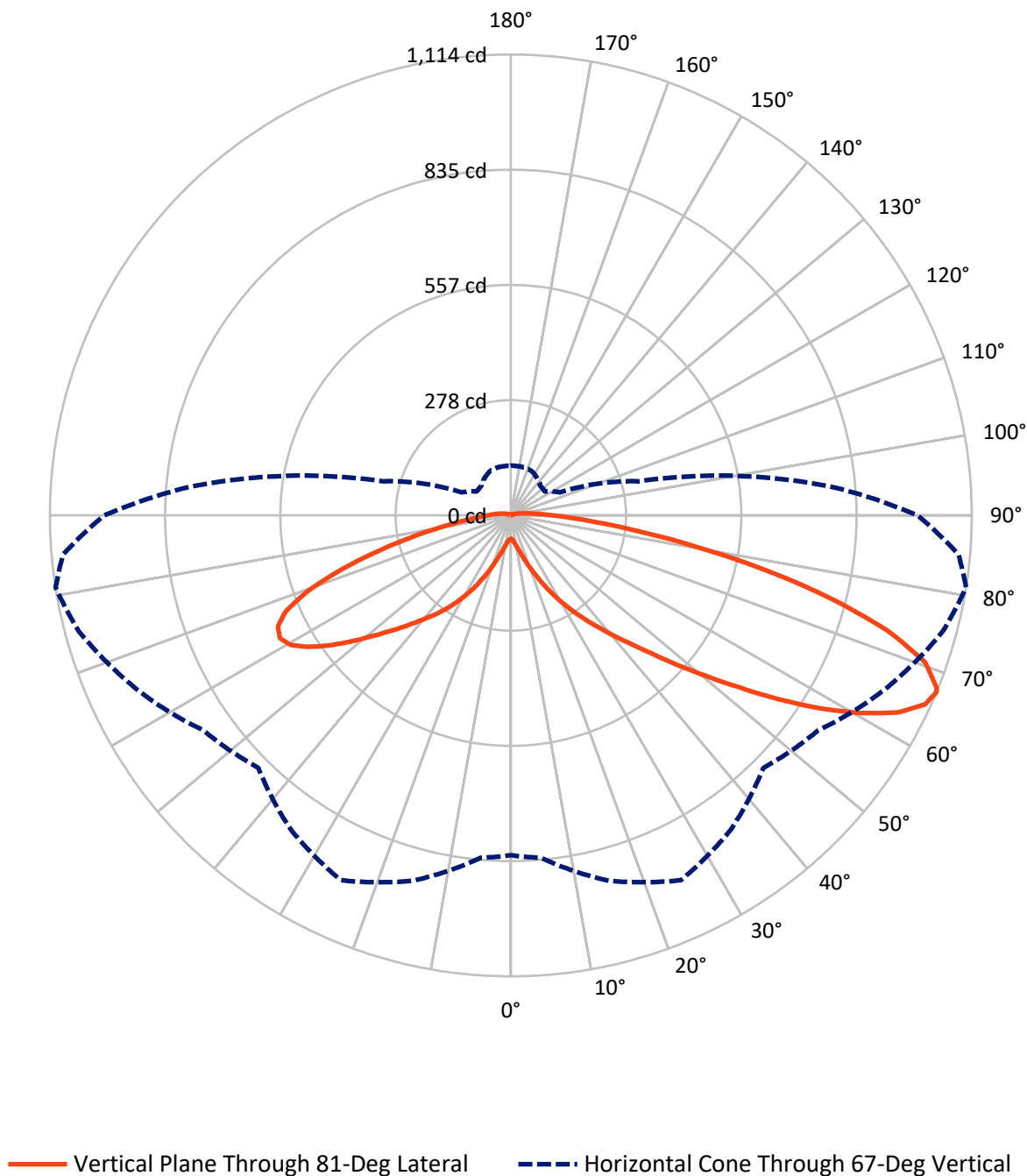


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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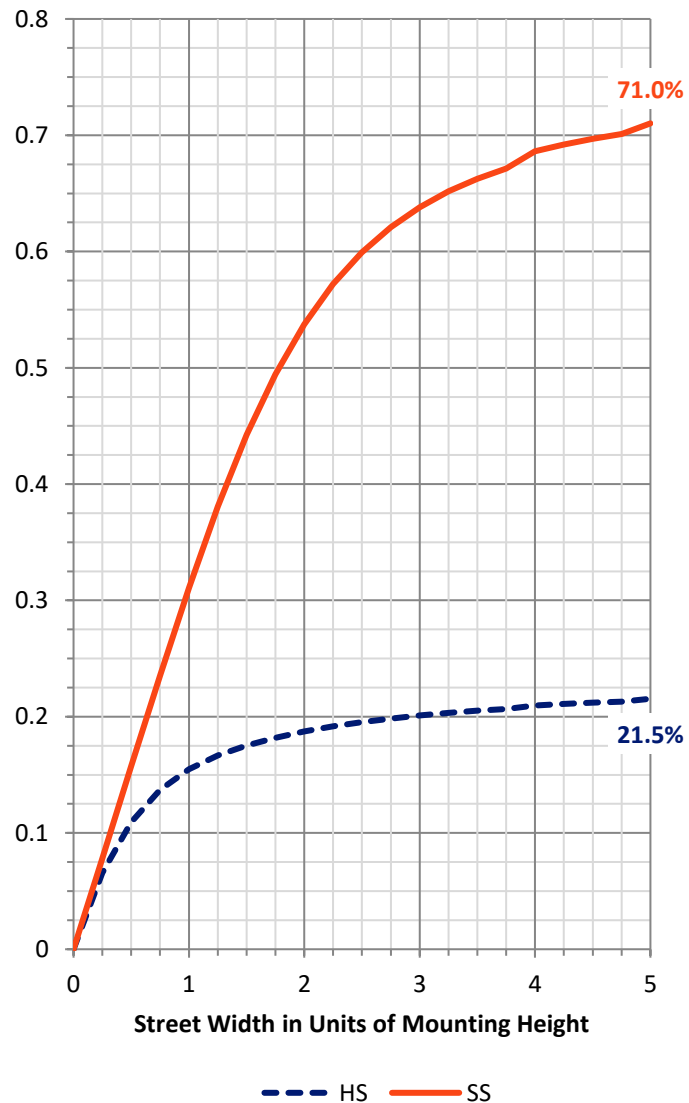
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 507.7    | 40.9   | 548.6  |
|                    | % Fixture | 22.7     | 1.8    | 24.6   |
| <b>Street Side</b> | Lumens    | 1638.9   | 46.7   | 1685.5 |
|                    | % Fixture | 73.4     | 2.1    | 75.4   |
| <b>Total</b>       | Lumens    | 2146.6   | 87.5   | 2234.1 |
|                    | % Fixture | 96.1     | 3.9    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.2    | 0.3       |
| 10°-20°   | 28.2   | 1.3       |
| 20°-30°   | 76.2   | 3.4       |
| 30°-40°   | 152.9  | 6.8       |
| 40°-50°   | 258.5  | 11.6      |
| 50°-60°   | 413.3  | 18.5      |
| 60°-70°   | 564.7  | 25.3      |
| 70°-80°   | 465.4  | 20.8      |
| 80°-90°   | 181.2  | 8.1       |
| 90°-100°  | 52.2   | 2.3       |
| 100°-110° | 20.0   | 0.9       |
| 110°-120° | 8.6    | 0.4       |
| 120°-130° | 4.1    | 0.2       |
| 130°-140° | 1.9    | 0.1       |
| 140°-150° | 0.6    | 0.0       |
| 150°-160° | 0.1    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2146.6 | 96.1      |
| 0°-180°   | 2234.1 | 100.0     |

**Coefficient of Utilization**



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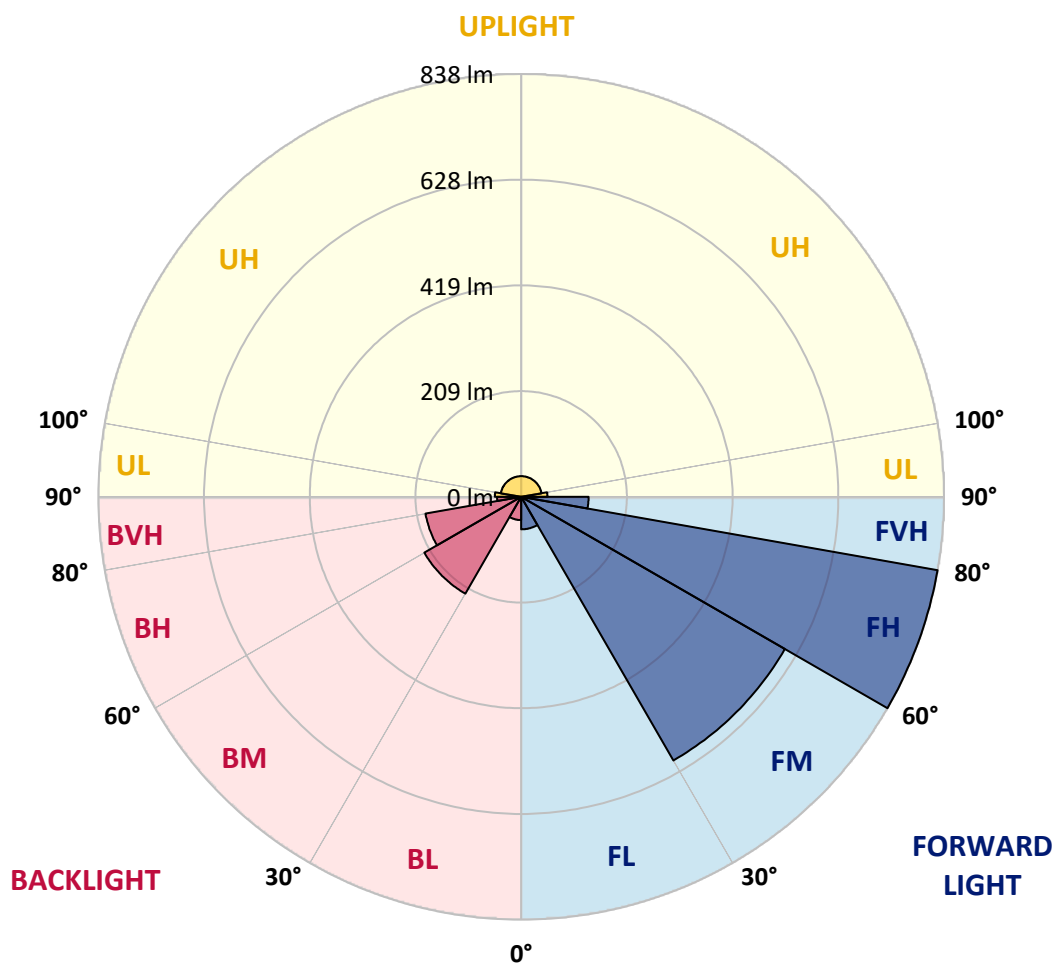
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 64.5   | 2.9       |                         |        |         |
| FM   | (30°-60°)   | 603.2  | 27.0      |                         |        |         |
| FH   | (60°-80°)   | 837.7  | 37.5      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 133.5  | 6.0       |                         |        | G2/225  |
| BL   | (0°-30°)    | 46.1   | 2.1       | B0/110                  |        |         |
| BM   | (30°-60°)   | 221.5  | 9.9       | B1/1000                 |        |         |
| BH   | (60°-80°)   | 192.4  | 8.6       | B1/500                  |        | G1/500  |
| BVH  | (80°-90°)   | 47.7   | 2.1       |                         |        | G1/100  |
| UL   | (90°-100°)  | 52.2   | 2.3       |                         | U3/500 |         |
| UH   | (100°-180°) | 40.9   | 1.8       |                         | U2/50  |         |

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°    | 75°    | 81°    | 85°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°     | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6   | 56.6   | 56.6   | 56.6   |
| 2.5°   | 61.2  | 61.2  | 61.2  | 60.9  | 60.6  | 60.0  | 59.4  | 58.8   | 58.6   | 58.3   | 58.0   |
| 5°     | 67.4  | 67.7  | 67.4  | 67.1  | 66.3  | 65.4  | 64.2  | 63.4   | 62.3   | 61.7   | 61.4   |
| 7.5°   | 76.7  | 76.7  | 76.5  | 75.1  | 74.2  | 72.8  | 71.4  | 69.7   | 68.5   | 67.7   | 66.5   |
| 10°    | 88.7  | 88.2  | 87.6  | 86.1  | 84.2  | 81.9  | 80.2  | 78.2   | 76.2   | 75.6   | 74.5   |
| 12.5°  | 102.9 | 102.9 | 101.5 | 99.5  | 95.9  | 93.5  | 90.7  | 88.4   | 86.4   | 85.3   | 84.7   |
| 15°    | 121.9 | 121.1 | 118.6 | 115.5 | 110.9 | 106.4 | 103.2 | 101.5  | 99.5   | 99.5   | 97.5   |
| 17.5°  | 141.3 | 142.2 | 138.2 | 133.4 | 127.1 | 121.4 | 117.7 | 117.4  | 116.6  | 116.0  | 115.7  |
| 20°    | 166.6 | 165.8 | 160.9 | 152.7 | 143.6 | 136.8 | 134.2 | 134.5  | 136.8  | 136.5  | 135.3  |
| 22.5°  | 194.0 | 194.0 | 186.5 | 175.4 | 162.6 | 154.4 | 151.8 | 154.4  | 159.3  | 159.3  | 159.8  |
| 25°    | 226.4 | 225.2 | 215.8 | 199.1 | 183.7 | 172.9 | 171.8 | 175.7  | 184.2  | 185.7  | 185.2  |
| 27.5°  | 262.7 | 258.7 | 246.5 | 225.8 | 205.6 | 193.3 | 191.4 | 198.8  | 210.4  | 214.4  | 215.8  |
| 30°    | 301.4 | 301.7 | 282.9 | 255.9 | 228.6 | 212.4 | 211.5 | 223.5  | 237.4  | 244.3  | 245.9  |
| 32.5°  | 346.1 | 344.6 | 323.0 | 289.2 | 253.9 | 232.9 | 232.0 | 248.5  | 266.2  | 275.0  | 276.1  |
| 35°    | 401.5 | 395.0 | 370.8 | 326.4 | 280.1 | 256.1 | 255.6 | 273.5  | 296.6  | 307.7  | 310.5  |
| 37.5°  | 452.3 | 449.0 | 421.4 | 365.1 | 310.0 | 279.8 | 278.7 | 302.0  | 329.3  | 342.1  | 346.1  |
| 40°    | 511.8 | 507.8 | 475.5 | 411.1 | 345.5 | 307.1 | 306.5 | 333.0  | 364.5  | 380.7  | 384.1  |
| 42.5°  | 570.1 | 567.5 | 532.5 | 462.4 | 383.0 | 337.8 | 336.7 | 367.3  | 404.6  | 422.8  | 427.1  |
| 45°    | 632.7 | 626.1 | 592.3 | 514.6 | 424.8 | 373.4 | 373.9 | 407.1  | 453.3  | 474.5  | 478.8  |
| 47.5°  | 686.1 | 682.1 | 653.7 | 571.2 | 470.9 | 412.0 | 412.9 | 457.3  | 513.2  | 538.0  | 540.0  |
| 50°    | 744.4 | 742.2 | 714.0 | 631.3 | 526.3 | 460.0 | 461.5 | 511.6  | 579.2  | 607.6  | 617.6  |
| 52.5°  | 792.8 | 793.0 | 771.7 | 692.9 | 580.9 | 511.8 | 516.1 | 576.3  | 650.9  | 689.0  | 694.9  |
| 55°    | 839.9 | 838.5 | 826.0 | 760.7 | 645.8 | 569.8 | 574.7 | 648.0  | 736.4  | 782.6  | 790.4  |
| 57.5°  | 874.1 | 877.8 | 879.2 | 825.4 | 708.6 | 628.1 | 644.0 | 722.5  | 829.7  | 879.2  | 886.3  |
| 60°    | 897.6 | 899.4 | 919.3 | 890.6 | 776.5 | 696.9 | 717.7 | 805.3  | 917.3  | 969.3  | 973.8  |
| 62.5°  | 895.4 | 902.8 | 941.4 | 939.5 | 842.5 | 762.3 | 788.8 | 882.9  | 993.5  | 1048.6 | 1049.5 |
| 65°    | 865.0 | 877.2 | 942.0 | 970.5 | 897.1 | 824.3 | 858.5 | 952.9  | 1056.1 | 1099.9 | 1088.4 |
| 67°    | 820.9 | 830.3 | 913.6 | 972.4 | 926.7 | 862.7 | 905.9 | 996.0  | 1080.7 | 1113.5 | 1085.9 |
| 67.5°  | 802.4 | 819.2 | 903.1 | 970.5 | 929.8 | 870.9 | 913.6 | 1007.4 | 1085.9 | 1109.2 | 1079.6 |
| 70°    | 713.4 | 726.5 | 820.6 | 929.8 | 930.9 | 896.0 | 945.4 | 1021.1 | 1066.5 | 1061.4 | 1008.0 |
| 72.5°  | 592.9 | 598.8 | 702.1 | 840.3 | 888.3 | 886.0 | 936.1 | 985.8  | 985.2  | 951.4  | 886.6  |
| 75°    | 449.3 | 465.1 | 558.1 | 705.4 | 799.3 | 830.5 | 876.1 | 892.5  | 853.3  | 796.5  | 718.0  |
| 77.5°  | 317.0 | 325.3 | 407.4 | 554.7 | 675.6 | 733.9 | 766.0 | 758.3  | 686.1  | 619.0  | 547.9  |
| 80°    | 205.3 | 213.3 | 269.9 | 397.5 | 529.7 | 592.0 | 621.2 | 598.5  | 525.8  | 447.0  | 387.3  |
| 82.5°  | 124.3 | 131.0 | 170.9 | 266.7 | 389.2 | 458.9 | 473.7 | 451.8  | 370.8  | 305.4  | 258.5  |
| 85°    | 72.8  | 78.2  | 106.1 | 172.1 | 265.3 | 331.2 | 336.7 | 311.6  | 249.1  | 204.2  | 172.3  |
| 87.5°  | 44.4  | 47.2  | 67.1  | 110.1 | 176.0 | 223.5 | 234.6 | 211.2  | 167.8  | 136.5  | 116.0  |
| 90°    | 28.7  | 30.7  | 43.0  | 72.2  | 115.5 | 147.6 | 154.4 | 141.1  | 113.8  | 93.0   | 79.9   |
| 92.5°  | 19.6  | 21.6  | 29.9  | 48.4  | 75.9  | 97.8  | 102.1 | 92.7   | 76.5   | 65.4   | 58.3   |
| 95°    | 15.0  | 16.0  | 22.7  | 34.2  | 51.8  | 65.4  | 69.4  | 63.1   | 53.5   | 48.1   | 43.8   |
| 97.5°  | 12.3  | 12.8  | 18.2  | 26.5  | 37.5  | 47.0  | 48.6  | 44.1   | 39.5   | 36.1   | 34.2   |
| 100°   | 10.5  | 10.8  | 15.3  | 21.6  | 29.3  | 35.5  | 36.4  | 32.9   | 29.9   | 28.1   | 26.5   |
| 102.5° | 9.4   | 9.7   | 13.4  | 18.5  | 23.8  | 28.1  | 28.1  | 25.6   | 22.7   | 21.6   | 20.8   |
| 105°   | 8.3   | 8.5   | 12.0  | 16.0  | 20.5  | 23.0  | 23.0  | 20.2   | 17.6   | 16.5   | 16.2   |
| 107.5° | 7.4   | 7.7   | 10.2  | 13.9  | 17.4  | 19.3  | 19.0  | 16.2   | 13.4   | 12.3   | 12.3   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 81° | 85° |
|--------|-----|-----|-----|------|------|------|------|------|------|-----|-----|
| 110°   | 6.9 | 6.9 | 9.1 | 12.3 | 14.8 | 16.5 | 15.7 | 13.1 | 10.2 | 9.4 | 9.7 |
| 112.5° | 6.2 | 6.2 | 8.0 | 10.5 | 13.1 | 14.2 | 13.1 | 10.8 | 8.0  | 7.4 | 7.7 |
| 115°   | 5.9 | 5.9 | 7.1 | 9.4  | 11.4 | 12.0 | 11.0 | 8.8  | 6.5  | 5.9 | 6.2 |
| 117.5° | 5.4 | 5.4 | 6.5 | 8.3  | 9.7  | 10.2 | 9.4  | 7.1  | 5.4  | 5.1 | 5.4 |
| 120°   | 5.1 | 5.1 | 5.7 | 7.1  | 8.5  | 8.8  | 8.0  | 5.9  | 4.5  | 4.5 | 4.8 |
| 122.5° | 4.8 | 4.8 | 5.4 | 6.2  | 7.4  | 7.7  | 6.9  | 4.8  | 4.0  | 4.0 | 4.3 |
| 125°   | 4.8 | 4.8 | 4.8 | 5.7  | 6.2  | 6.5  | 5.7  | 4.3  | 3.7  | 3.7 | 4.0 |
| 127.5° | 4.5 | 4.5 | 4.5 | 4.8  | 5.4  | 5.4  | 4.8  | 3.4  | 3.2  | 3.4 | 3.4 |
| 130°   | 4.3 | 4.3 | 4.3 | 4.5  | 4.8  | 4.5  | 4.0  | 2.9  | 2.9  | 3.2 | 3.2 |
| 132.5° | 4.0 | 4.0 | 4.0 | 4.0  | 4.0  | 3.7  | 3.2  | 2.6  | 2.6  | 2.9 | 2.9 |
| 135°   | 3.7 | 3.7 | 3.7 | 3.4  | 3.4  | 3.2  | 2.6  | 1.9  | 2.3  | 2.6 | 2.6 |
| 137.5° | 3.4 | 3.4 | 3.4 | 3.2  | 2.9  | 2.3  | 1.7  | 1.7  | 1.9  | 2.3 | 2.3 |
| 140°   | 3.2 | 3.2 | 2.9 | 2.6  | 2.3  | 1.7  | 1.1  | 1.4  | 1.7  | 1.7 | 1.9 |
| 142.5° | 2.6 | 2.6 | 2.6 | 1.9  | 1.4  | 1.1  | 0.8  | 0.8  | 1.4  | 1.4 | 1.4 |
| 145°   | 2.3 | 2.3 | 1.9 | 1.7  | 1.1  | 0.6  | 0.3  | 0.6  | 0.8  | 1.1 | 1.1 |
| 147.5° | 1.7 | 1.7 | 1.7 | 1.1  | 0.6  | 0.3  | 0.3  | 0.3  | 0.6  | 0.8 | 0.8 |
| 150°   | 1.4 | 1.4 | 1.1 | 0.8  | 0.3  | 0.0  | 0.0  | 0.3  | 0.6  | 0.6 | 0.6 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.6  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.3 | 0.3 |
| 155°   | 0.6 | 0.6 | 0.6 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3 | 0.3 |
| 157.5° | 0.3 | 0.3 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 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°     | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  | 56.6  |
| 2.5°   | 57.7  | 57.4  | 57.2  | 56.6  | 56.3  | 55.8  | 55.1  | 54.8  | 54.6  | 54.6  | 54.6  |
| 5°     | 60.9  | 60.6  | 59.7  | 58.6  | 57.7  | 56.9  | 56.3  | 55.8  | 55.1  | 55.1  | 55.1  |
| 7.5°   | 66.0  | 65.4  | 63.7  | 62.6  | 61.2  | 60.0  | 59.1  | 58.3  | 58.0  | 58.0  | 57.7  |
| 10°    | 73.3  | 72.5  | 70.5  | 68.2  | 66.3  | 64.9  | 63.7  | 62.8  | 62.6  | 62.6  | 62.6  |
| 12.5°  | 83.1  | 81.9  | 78.8  | 75.9  | 72.8  | 70.8  | 69.4  | 69.0  | 69.4  | 69.4  | 69.0  |
| 15°    | 97.0  | 94.7  | 89.8  | 85.3  | 80.5  | 77.3  | 76.5  | 76.5  | 77.9  | 78.5  | 78.8  |
| 17.5°  | 113.8 | 110.9 | 104.3 | 97.0  | 89.6  | 85.3  | 84.7  | 86.4  | 89.6  | 90.9  | 90.7  |
| 20°    | 134.5 | 130.5 | 121.4 | 110.3 | 100.0 | 94.7  | 94.1  | 97.3  | 101.5 | 104.3 | 104.0 |
| 22.5°  | 157.8 | 154.2 | 140.5 | 124.3 | 110.1 | 103.8 | 102.9 | 108.0 | 114.3 | 117.4 | 118.6 |
| 25°    | 183.7 | 178.6 | 160.6 | 138.5 | 120.6 | 111.7 | 111.5 | 117.7 | 125.9 | 131.7 | 132.5 |
| 27.5°  | 211.9 | 205.8 | 182.3 | 152.7 | 129.7 | 118.3 | 118.0 | 126.5 | 137.9 | 145.1 | 145.3 |
| 30°    | 242.8 | 233.7 | 203.6 | 164.6 | 136.5 | 122.9 | 123.4 | 133.4 | 147.8 | 156.1 | 157.5 |
| 32.5°  | 273.5 | 263.3 | 222.9 | 176.3 | 141.1 | 125.1 | 125.9 | 138.5 | 154.4 | 164.9 | 166.0 |
| 35°    | 306.0 | 292.9 | 242.2 | 183.9 | 143.6 | 125.4 | 126.2 | 140.5 | 157.8 | 169.2 | 170.3 |
| 37.5°  | 338.7 | 323.0 | 258.5 | 189.7 | 143.6 | 123.7 | 124.8 | 139.9 | 157.5 | 169.2 | 170.0 |
| 40°    | 377.4 | 354.6 | 273.8 | 191.9 | 141.3 | 120.6 | 121.9 | 136.8 | 153.2 | 164.1 | 164.9 |
| 42.5°  | 417.4 | 390.2 | 288.4 | 191.4 | 137.4 | 116.6 | 118.0 | 131.7 | 146.2 | 155.0 | 155.8 |
| 45°    | 465.7 | 432.5 | 303.1 | 189.7 | 132.5 | 112.3 | 113.1 | 125.4 | 137.6 | 143.8 | 145.1 |
| 47.5°  | 525.2 | 478.0 | 318.1 | 186.5 | 127.1 | 108.3 | 108.9 | 119.7 | 128.5 | 132.5 | 133.4 |
| 50°    | 591.2 | 531.7 | 334.7 | 182.3 | 121.9 | 104.6 | 105.5 | 114.3 | 120.6 | 122.2 | 122.5 |
| 52.5°  | 669.3 | 592.6 | 350.1 | 177.2 | 117.4 | 101.8 | 102.9 | 110.9 | 115.2 | 115.5 | 115.7 |
| 55°    | 753.8 | 659.1 | 363.7 | 170.9 | 112.9 | 99.8  | 102.1 | 109.5 | 112.3 | 112.0 | 112.3 |
| 57.5°  | 841.9 | 723.1 | 373.1 | 164.4 | 109.1 | 98.7  | 102.4 | 109.5 | 112.3 | 111.7 | 112.3 |
| 60°    | 920.7 | 778.0 | 374.5 | 155.8 | 106.4 | 98.7  | 104.0 | 111.5 | 114.1 | 114.1 | 114.6 |
| 62.5°  | 976.7 | 809.6 | 365.1 | 147.3 | 103.8 | 99.2  | 106.4 | 114.1 | 116.6 | 116.6 | 117.1 |
| 65°    | 999.4 | 808.9 | 344.6 | 138.2 | 101.8 | 100.0 | 108.6 | 116.8 | 118.9 | 118.9 | 119.4 |
| 67°    | 982.4 | 782.6 | 318.1 | 131.3 | 100.7 | 101.0 | 110.3 | 118.6 | 120.3 | 120.0 | 120.3 |
| 67.5°  | 971.9 | 773.1 | 312.5 | 129.4 | 100.4 | 101.0 | 110.6 | 118.9 | 120.6 | 120.3 | 120.3 |
| 70°    | 884.9 | 693.3 | 273.2 | 120.8 | 98.4  | 101.0 | 111.7 | 119.4 | 120.6 | 120.0 | 120.0 |
| 72.5°  | 750.3 | 580.0 | 229.1 | 112.3 | 96.2  | 100.0 | 111.2 | 118.6 | 119.2 | 118.3 | 118.3 |
| 75°    | 596.8 | 453.8 | 188.2 | 105.0 | 93.0  | 98.1  | 109.1 | 116.0 | 116.8 | 116.0 | 115.2 |
| 77.5°  | 441.9 | 336.1 | 152.1 | 97.0  | 89.3  | 94.9  | 105.8 | 112.3 | 113.1 | 112.3 | 111.5 |
| 80°    | 308.2 | 238.9 | 122.5 | 89.0  | 84.5  | 90.4  | 101.0 | 106.6 | 107.7 | 107.2 | 105.8 |
| 82.5°  | 206.1 | 164.1 | 98.1  | 80.2  | 78.2  | 84.5  | 94.4  | 99.5  | 100.4 | 99.8  | 98.1  |
| 85°    | 140.8 | 114.3 | 81.0  | 70.8  | 71.4  | 77.3  | 85.8  | 89.8  | 90.7  | 89.8  | 88.2  |
| 87.5°  | 94.7  | 81.9  | 66.3  | 61.7  | 63.4  | 69.0  | 75.9  | 77.9  | 79.6  | 78.2  | 77.0  |
| 90°    | 68.5  | 61.7  | 53.5  | 52.6  | 55.4  | 60.3  | 64.9  | 65.2  | 67.4  | 66.8  | 64.5  |
| 92.5°  | 51.5  | 48.4  | 44.4  | 44.4  | 47.5  | 51.5  | 54.3  | 53.7  | 55.1  | 55.1  | 53.5  |
| 95°    | 40.6  | 39.0  | 36.9  | 37.8  | 40.6  | 43.5  | 44.4  | 43.3  | 44.6  | 44.9  | 44.4  |
| 97.5°  | 32.7  | 32.1  | 31.6  | 32.1  | 34.7  | 36.9  | 36.7  | 34.7  | 35.8  | 36.4  | 35.8  |
| 100°   | 26.5  | 26.2  | 26.5  | 27.6  | 29.6  | 31.0  | 30.2  | 28.1  | 29.1  | 29.1  | 29.1  |
| 102.5° | 21.3  | 21.3  | 22.2  | 23.3  | 24.8  | 25.9  | 24.8  | 23.0  | 23.3  | 23.0  | 23.0  |
| 105°   | 16.8  | 17.1  | 18.2  | 19.6  | 20.8  | 21.3  | 20.2  | 18.5  | 18.2  | 17.4  | 17.6  |
| 107.5° | 13.1  | 13.6  | 14.8  | 16.2  | 17.4  | 17.6  | 16.8  | 15.0  | 13.9  | 13.4  | 13.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 10.2 | 10.8 | 12.3 | 13.4 | 14.2 | 14.5 | 13.6 | 12.0 | 10.5 | 10.2 | 10.2 |
| 112.5° | 8.3  | 8.8  | 9.9  | 11.0 | 12.0 | 12.0 | 11.0 | 9.7  | 8.0  | 7.7  | 7.7  |
| 115°   | 6.9  | 7.1  | 8.3  | 9.1  | 9.9  | 9.9  | 9.1  | 7.7  | 6.2  | 5.9  | 6.2  |
| 117.5° | 5.7  | 5.9  | 6.9  | 7.7  | 8.3  | 8.3  | 7.4  | 5.9  | 4.8  | 4.8  | 4.8  |
| 120°   | 5.1  | 5.4  | 5.9  | 6.5  | 6.9  | 6.9  | 6.2  | 4.8  | 4.0  | 4.0  | 4.0  |
| 122.5° | 4.5  | 4.5  | 5.1  | 5.4  | 5.9  | 5.7  | 5.1  | 4.0  | 3.2  | 3.4  | 3.4  |
| 125°   | 4.0  | 4.3  | 4.3  | 4.8  | 4.8  | 4.8  | 4.0  | 3.2  | 2.9  | 2.9  | 2.9  |
| 127.5° | 3.7  | 3.7  | 4.0  | 4.0  | 4.3  | 4.0  | 3.2  | 2.3  | 2.3  | 2.6  | 2.6  |
| 130°   | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 3.2  | 2.6  | 1.9  | 1.9  | 2.3  | 2.3  |
| 132.5° | 2.9  | 3.2  | 3.2  | 2.9  | 2.9  | 2.6  | 1.9  | 1.4  | 1.7  | 1.7  | 1.7  |
| 135°   | 2.6  | 2.9  | 2.6  | 2.6  | 2.3  | 1.9  | 1.4  | 1.1  | 1.4  | 1.4  | 1.4  |
| 137.5° | 2.3  | 2.3  | 2.3  | 1.9  | 1.7  | 1.4  | 1.1  | 0.8  | 1.1  | 1.1  | 1.1  |
| 140°   | 1.9  | 1.9  | 1.9  | 1.7  | 1.4  | 1.1  | 0.6  | 0.6  | 0.8  | 0.8  | 0.8  |
| 142.5° | 1.4  | 1.7  | 1.4  | 1.1  | 0.8  | 0.6  | 0.3  | 0.3  | 0.6  | 0.8  | 0.6  |
| 145°   | 1.1  | 1.1  | 1.1  | 0.8  | 0.6  | 0.3  | 0.0  | 0.0  | 0.3  | 0.3  | 0.3  |
| 147.5° | 0.8  | 0.8  | 0.8  | 0.6  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  |
| 150°   | 0.6  | 0.6  | 0.6  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.3  | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 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  |

(END OF REPORT)