

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: P266524

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-90-D-U-T4W-CL-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7048 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U2 - G2

Input Watts (W): 94  
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

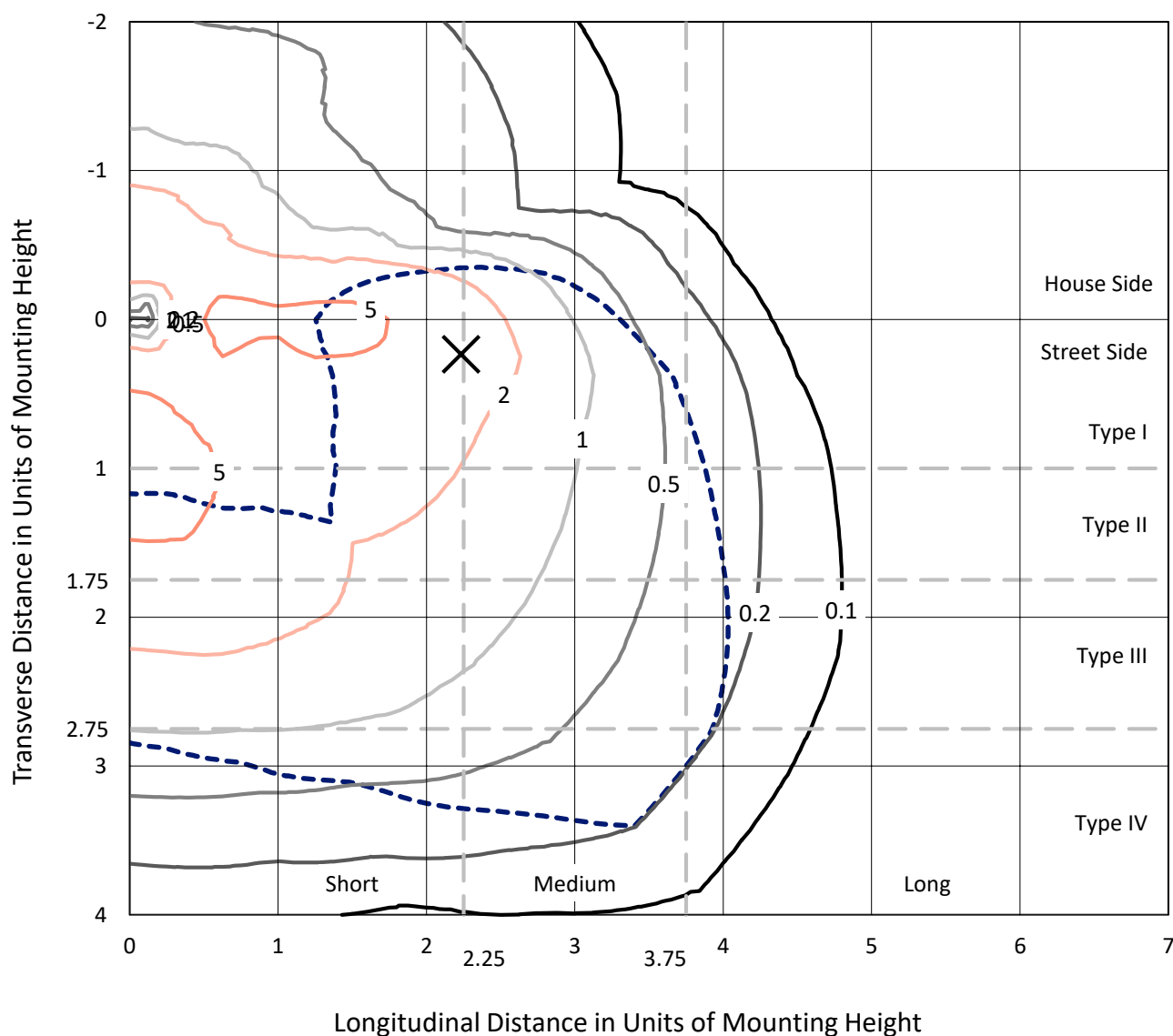


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

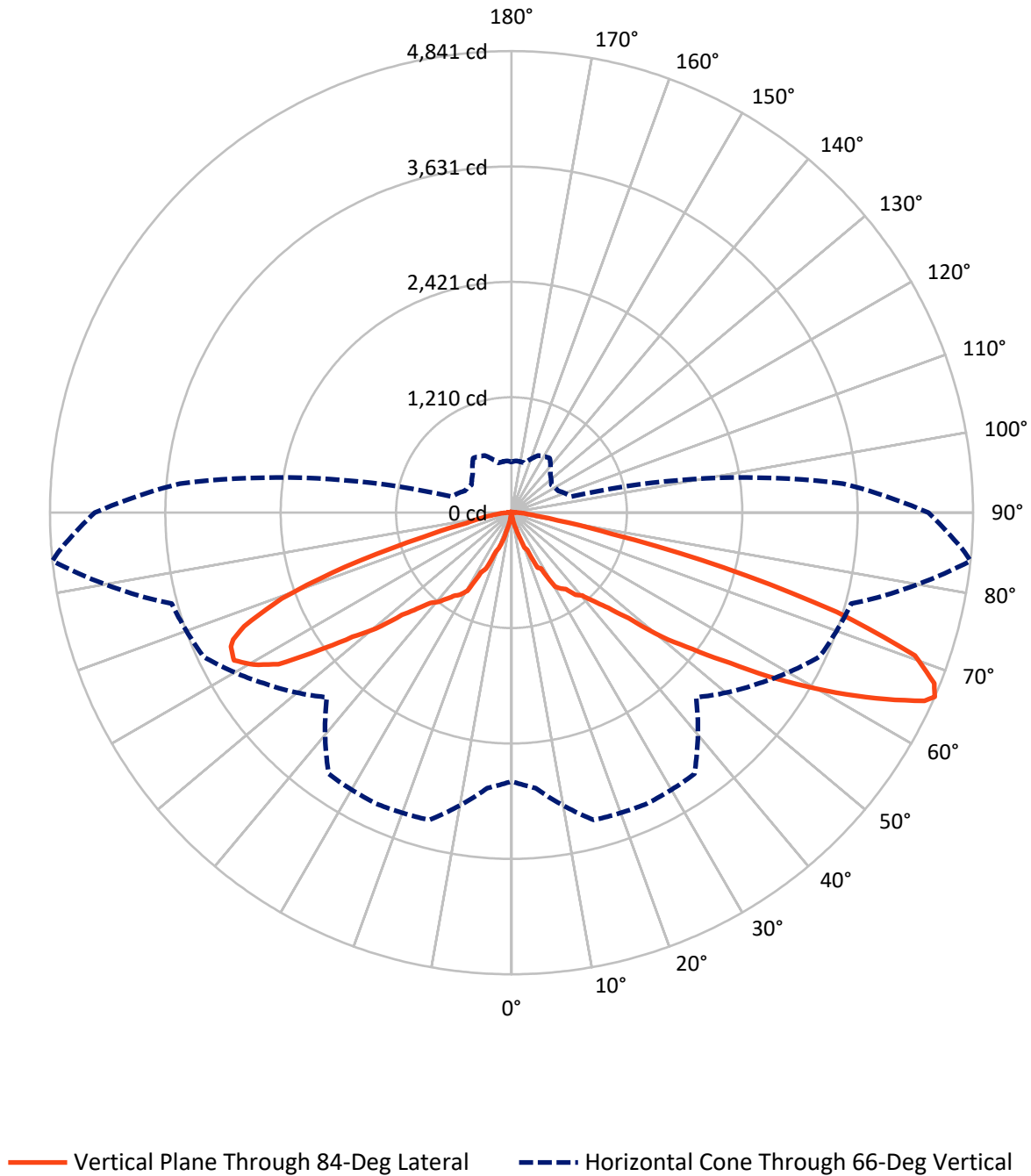


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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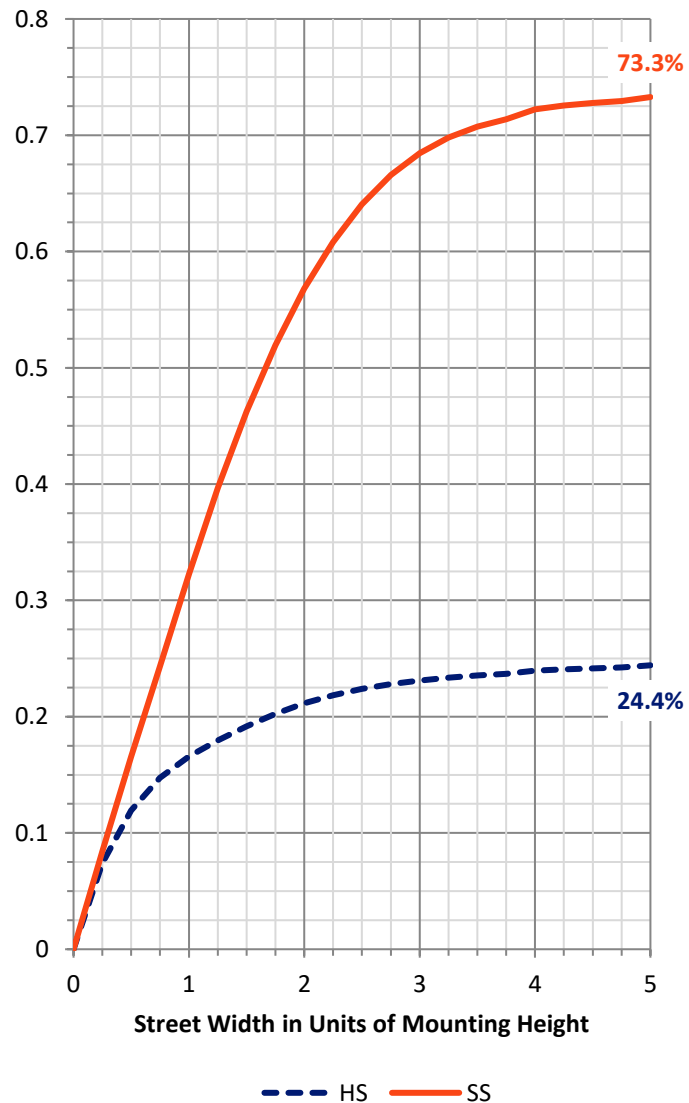
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1763.7   | 42.9   | 1806.6 |
|                    | % Fixture | 25.0     | 0.6    | 25.6   |
| <b>Street Side</b> | Lumens    | 5201.1   | 40.3   | 5241.5 |
|                    | % Fixture | 73.8     | 0.6    | 74.4   |
| <b>Total</b>       | Lumens    | 6964.8   | 83.2   | 7048.0 |
|                    | % Fixture | 98.8     | 1.2    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.2    | 0.1       |
| 10°-20°   | 65.4   | 0.9       |
| 20°-30°   | 241.8  | 3.4       |
| 30°-40°   | 497.1  | 7.1       |
| 40°-50°   | 824.7  | 11.7      |
| 50°-60°   | 1438.1 | 20.4      |
| 60°-70°   | 2118.4 | 30.1      |
| 70°-80°   | 1546.0 | 21.9      |
| 80°-90°   | 228.1  | 3.2       |
| 90°-100°  | 42.5   | 0.6       |
| 100°-110° | 19.4   | 0.3       |
| 110°-120° | 9.2    | 0.1       |
| 120°-130° | 6.3    | 0.1       |
| 130°-140° | 3.8    | 0.1       |
| 140°-150° | 1.7    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6964.8 | 98.8      |
| 0°-180°   | 7048.0 | 100.0     |

**Coefficient of Utilization**



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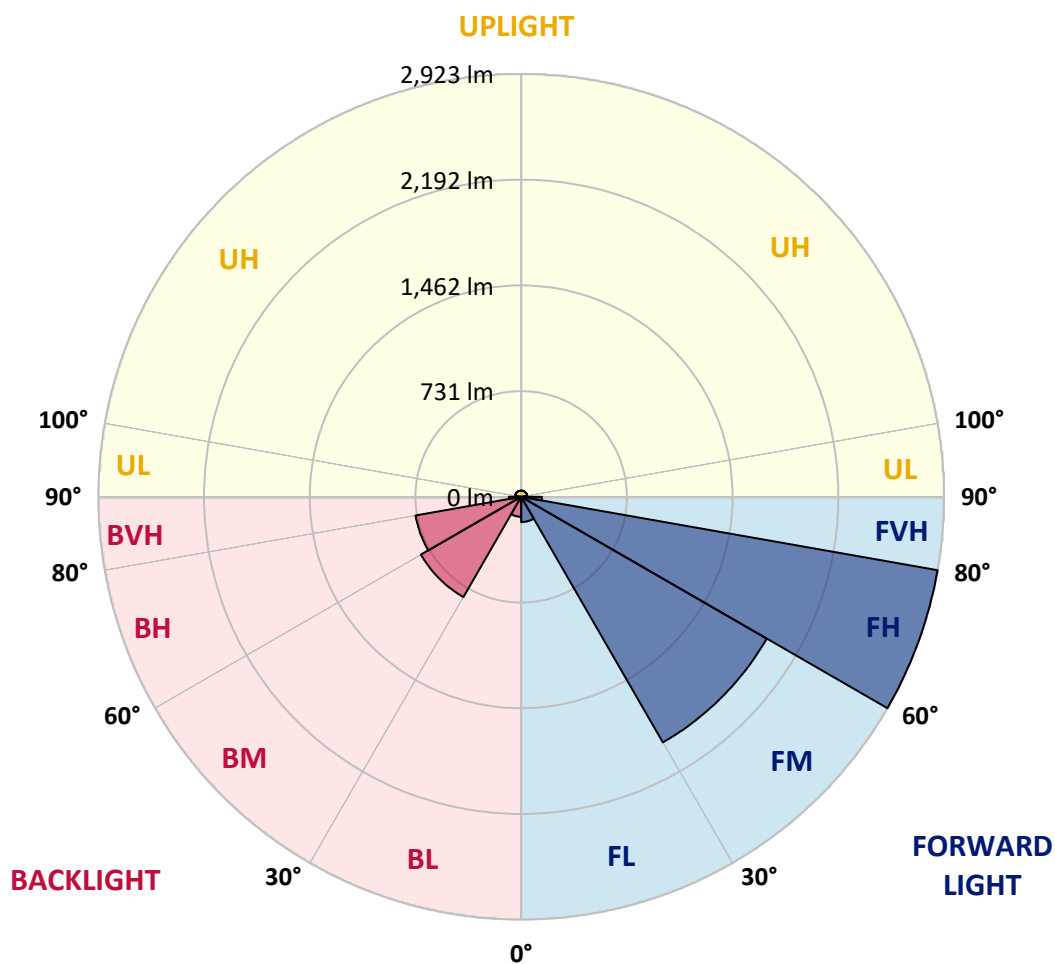
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 174.4  | 2.5       |                         |       |         |
| FM   | (30°-60°)   | 1960.2 | 27.8      |                         |       |         |
| FH   | (60°-80°)   | 2923.1 | 41.5      |                         |       | G2/5000 |
| FVH  | (80°-90°)   | 143.4  | 2.0       |                         |       | G2/225  |
| BL   | (0°-30°)    | 137.9  | 2.0       | B1/500                  |       |         |
| BM   | (30°-60°)   | 799.7  | 11.3      | B1/1000                 |       |         |
| BH   | (60°-80°)   | 741.4  | 10.5      | B2/1000                 |       | G2/1000 |
| BVH  | (80°-90°)   | 84.7   | 1.2       |                         |       | G1/100  |
| UL   | (90°-100°)  | 42.5   | 0.6       |                         | U2/50 |         |
| UH   | (100°-180°) | 42.9   | 0.6       |                         | U2/50 |         |

**BUG Rating: B2-U2-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 2.5°   | 41.6   | 37.3   | 37.3   | 35.6   | 32.1   | 28.7   | 22.5   | 19.0   | 16.4   | 16.4   | 15.6   |
| 5°     | 79.8   | 84.1   | 97.0   | 89.3   | 73.8   | 96.3   | 43.4   | 28.7   | 18.2   | 15.6   | 15.6   |
| 7.5°   | 126.7  | 133.5  | 102.2  | 91.1   | 91.1   | 97.0   | 79.0   | 47.7   | 24.3   | 18.2   | 17.3   |
| 10°    | 265.3  | 250.5  | 174.4  | 176.8  | 149.9  | 104.9  | 72.0   | 63.3   | 37.3   | 29.5   | 26.9   |
| 12.5°  | 257.5  | 254.0  | 259.3  | 226.4  | 228.0  | 165.6  | 91.8   | 147.4  | 133.5  | 127.5  | 140.4  |
| 15°    | 332.1  | 328.6  | 263.6  | 268.8  | 243.6  | 253.1  | 213.3  | 212.4  | 205.5  | 172.6  | 165.6  |
| 17.5°  | 461.3  | 457.7  | 515.8  | 343.3  | 244.5  | 316.5  | 274.8  | 236.8  | 245.3  | 259.3  | 269.6  |
| 20°    | 460.4  | 455.3  | 479.4  | 411.9  | 417.1  | 326.9  | 293.0  | 430.8  | 393.5  | 395.3  | 372.7  |
| 22.5°  | 679.7  | 648.5  | 569.6  | 430.1  | 470.0  | 382.4  | 434.4  | 425.6  | 397.1  | 420.4  | 413.6  |
| 25°    | 659.7  | 671.9  | 645.1  | 636.4  | 478.5  | 548.0  | 477.7  | 491.6  | 607.0  | 638.2  | 639.0  |
| 27.5°  | 765.5  | 742.2  | 721.3  | 653.7  | 643.4  | 533.2  | 491.6  | 654.5  | 635.6  | 664.1  | 663.3  |
| 30°    | 912.9  | 905.1  | 899.9  | 726.5  | 696.1  | 587.9  | 662.4  | 668.5  | 771.6  | 901.7  | 928.6  |
| 32.5°  | 1055.1 | 1017.9 | 933.8  | 841.1  | 698.8  | 694.5  | 658.1  | 830.7  | 885.2  | 946.8  | 956.3  |
| 35°    | 1280.5 | 1279.7 | 1137.6 | 899.2  | 782.1  | 737.8  | 852.3  | 894.7  | 894.0  | 986.7  | 1043.0 |
| 37.5°  | 1473.0 | 1482.7 | 1333.4 | 1085.5 | 809.0  | 745.7  | 889.5  | 965.0  | 968.5  | 1094.1 | 1072.4 |
| 40°    | 1766.1 | 1740.9 | 1607.4 | 1296.2 | 924.3  | 795.0  | 975.4  | 986.7  | 1057.8 | 1141.8 | 1173.0 |
| 42.5°  | 1974.1 | 1964.7 | 1921.3 | 1542.4 | 1057.8 | 886.1  | 1076.8 | 1028.3 | 1120.1 | 1272.8 | 1305.7 |
| 45°    | 2104.2 | 2057.4 | 2099.9 | 1722.8 | 1271.9 | 1081.2 | 1099.3 | 1164.5 | 1262.4 | 1423.6 | 1516.3 |
| 47.5°  | 2235.2 | 2270.6 | 2171.1 | 1858.9 | 1464.3 | 1171.3 | 1209.5 | 1415.0 | 1509.4 | 1654.3 | 1713.2 |
| 50°    | 2462.3 | 2424.2 | 2389.5 | 2063.4 | 1760.9 | 1315.3 | 1512.9 | 1485.2 | 1750.4 | 2046.1 | 2056.5 |
| 52.5°  | 2601.0 | 2601.0 | 2544.7 | 2242.1 | 1965.5 | 1527.7 | 1614.3 | 1713.2 | 2108.5 | 2376.5 | 2473.6 |
| 55°    | 2797.9 | 2838.6 | 2828.1 | 2452.7 | 2206.5 | 1816.5 | 1879.7 | 2087.8 | 2436.4 | 2780.6 | 3020.7 |
| 57.5°  | 2937.4 | 2993.8 | 3116.0 | 2678.1 | 2440.7 | 1934.3 | 2267.2 | 2498.7 | 2876.7 | 3295.5 | 3585.9 |
| 60°    | 3144.6 | 3145.5 | 3271.2 | 2877.6 | 2736.2 | 2158.8 | 2417.2 | 2880.1 | 3118.6 | 3790.6 | 3944.0 |
| 62.5°  | 3165.4 | 3201.0 | 3464.6 | 3187.9 | 3031.2 | 2392.9 | 2908.0 | 3077.1 | 3390.9 | 4288.1 | 4422.6 |
| 65°    | 2914.0 | 3009.4 | 3450.7 | 3333.6 | 3300.7 | 2608.9 | 3051.9 | 3466.3 | 3611.9 | 4759.8 | 4721.8 |
| 66°    | 2817.8 | 2898.4 | 3336.2 | 3365.7 | 3344.8 | 2738.0 | 3136.0 | 3567.8 | 3689.1 | 4841.3 | 4774.6 |
| 67.5°  | 2783.9 | 2843.0 | 3199.3 | 3400.4 | 3494.9 | 2972.1 | 3341.4 | 3617.1 | 3830.5 | 4782.4 | 4755.5 |
| 70°    | 2549.0 | 2622.7 | 2957.4 | 3629.3 | 3814.8 | 3401.3 | 3605.8 | 3736.8 | 3930.2 | 4490.3 | 4374.0 |
| 72.5°  | 1943.8 | 2019.3 | 2266.3 | 2994.7 | 3841.7 | 4035.9 | 4016.1 | 3887.7 | 3605.8 | 3567.8 | 3381.3 |
| 75°    | 964.2  | 1044.8 | 1219.0 | 1745.2 | 2989.5 | 3964.8 | 3992.5 | 3505.4 | 2914.0 | 2301.1 | 2158.0 |
| 77.5°  | 498.5  | 561.8  | 470.8  | 668.5  | 1537.2 | 2812.6 | 2825.6 | 2311.5 | 1689.0 | 1075.1 | 1003.9 |
| 80°    | 339.9  | 353.8  | 320.8  | 329.5  | 632.9  | 1437.5 | 1340.5 | 1230.3 | 679.7  | 493.3  | 515.0  |
| 82.5°  | 249.6  | 230.7  | 221.2  | 240.1  | 341.5  | 449.2  | 482.1  | 532.3  | 363.3  | 250.5  | 264.5  |
| 85°    | 117.9  | 130.1  | 127.5  | 146.6  | 208.0  | 153.5  | 235.9  | 319.9  | 242.0  | 161.2  | 158.7  |
| 87.5°  | 73.8   | 72.9   | 78.1   | 90.2   | 125.8  | 101.5  | 129.1  | 158.7  | 145.6  | 100.6  | 98.9   |
| 90°    | 48.6   | 43.4   | 40.8   | 48.6   | 70.2   | 50.2   | 69.3   | 90.2   | 82.4   | 54.6   | 51.2   |
| 92.5°  | 33.0   | 33.0   | 35.6   | 40.8   | 60.6   | 53.8   | 49.4   | 51.2   | 51.2   | 42.5   | 40.8   |
| 95°    | 24.3   | 26.1   | 29.5   | 30.4   | 36.4   | 31.3   | 39.9   | 44.2   | 45.0   | 34.7   | 33.9   |
| 97.5°  | 20.8   | 22.5   | 24.3   | 25.2   | 30.4   | 25.2   | 33.0   | 39.0   | 38.2   | 27.8   | 28.7   |
| 100°   | 19.0   | 20.8   | 20.8   | 21.6   | 24.3   | 19.0   | 26.9   | 36.4   | 34.7   | 24.3   | 23.4   |
| 102.5° | 18.2   | 18.2   | 17.3   | 17.3   | 19.0   | 14.7   | 22.5   | 32.1   | 26.1   | 19.9   | 18.2   |
| 105°   | 17.3   | 17.3   | 14.7   | 13.8   | 14.7   | 12.1   | 18.2   | 24.3   | 18.2   | 16.4   | 16.4   |
| 107.5° | 16.4   | 15.6   | 13.0   | 11.3   | 12.1   | 9.5    | 14.7   | 15.6   | 13.0   | 14.7   | 15.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25° | 35° | 45° | 55°  | 65°  | 75°  | 84°  | 85°  |
|--------|------|------|------|-----|-----|-----|------|------|------|------|------|
| 110°   | 14.7 | 14.7 | 11.3 | 9.5 | 9.5 | 7.8 | 10.4 | 11.3 | 11.3 | 14.7 | 15.6 |
| 112.5° | 13.8 | 13.0 | 9.5  | 7.8 | 7.8 | 6.9 | 7.8  | 8.7  | 9.5  | 13.8 | 14.7 |
| 115°   | 13.0 | 12.1 | 8.7  | 6.9 | 6.1 | 5.2 | 6.1  | 6.9  | 8.7  | 13.8 | 13.8 |
| 117.5° | 12.1 | 11.3 | 7.8  | 6.1 | 5.2 | 4.3 | 5.2  | 6.1  | 8.7  | 13.8 | 13.8 |
| 120°   | 12.1 | 11.3 | 7.8  | 5.2 | 4.3 | 4.3 | 4.3  | 5.2  | 9.5  | 13.8 | 14.7 |
| 122.5° | 11.3 | 11.3 | 7.8  | 5.2 | 4.3 | 3.5 | 3.5  | 5.2  | 8.7  | 13.0 | 13.0 |
| 125°   | 11.3 | 11.3 | 6.9  | 4.3 | 3.5 | 3.5 | 3.5  | 4.3  | 8.7  | 12.1 | 13.0 |
| 127.5° | 10.4 | 10.4 | 6.9  | 4.3 | 3.5 | 2.6 | 2.6  | 4.3  | 7.8  | 12.1 | 12.1 |
| 130°   | 10.4 | 10.4 | 6.9  | 3.5 | 2.6 | 2.6 | 2.6  | 3.5  | 7.8  | 11.3 | 11.3 |
| 132.5° | 8.7  | 8.7  | 6.1  | 3.5 | 2.6 | 1.7 | 2.6  | 3.5  | 6.9  | 9.5  | 10.4 |
| 135°   | 8.7  | 8.7  | 6.1  | 3.5 | 2.6 | 1.7 | 1.7  | 3.5  | 6.1  | 8.7  | 8.7  |
| 137.5° | 7.8  | 7.8  | 5.2  | 3.5 | 2.6 | 1.7 | 1.7  | 2.6  | 5.2  | 7.8  | 7.8  |
| 140°   | 6.9  | 6.9  | 6.1  | 3.5 | 2.6 | 1.7 | 1.7  | 1.7  | 4.3  | 6.1  | 6.1  |
| 142.5° | 6.9  | 6.9  | 5.2  | 3.5 | 1.7 | 0.9 | 0.9  | 1.7  | 3.5  | 4.3  | 4.3  |
| 145°   | 6.1  | 6.1  | 5.2  | 3.5 | 1.7 | 0.9 | 0.9  | 1.7  | 2.6  | 3.5  | 3.5  |
| 147.5° | 6.1  | 6.1  | 5.2  | 2.6 | 0.9 | 0.9 | 0.9  | 1.7  | 2.6  | 3.5  | 3.5  |
| 150°   | 5.2  | 5.2  | 3.5  | 1.7 | 0.0 | 0.0 | 0.9  | 0.9  | 1.7  | 2.6  | 2.6  |
| 152.5° | 3.5  | 3.5  | 2.6  | 0.9 | 0.0 | 0.0 | 0.0  | 0.9  | 1.7  | 1.7  | 1.7  |
| 155°   | 1.7  | 1.7  | 0.9  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  |
| 157.5° | 0.9  | 0.9  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  |
| 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°     | 16.4   | 16.4   | 16.4   | 16.4  | 16.4  | 16.4  | 16.4  | 16.4  | 16.4  | 16.4  | 16.4  |
| 2.5°   | 15.6   | 15.6   | 15.6   | 15.6  | 15.6  | 15.6  | 14.7  | 14.7  | 14.7  | 14.7  | 14.7  |
| 5°     | 14.7   | 14.7   | 14.7   | 14.7  | 14.7  | 14.7  | 14.7  | 15.6  | 16.4  | 16.4  | 16.4  |
| 7.5°   | 16.4   | 16.4   | 15.6   | 14.7  | 15.6  | 17.3  | 26.1  | 59.8  | 87.6  | 107.4 | 106.7 |
| 10°    | 26.9   | 26.9   | 25.2   | 21.6  | 26.9  | 59.0  | 116.2 | 117.0 | 97.0  | 89.3  | 92.7  |
| 12.5°  | 142.2  | 126.7  | 107.4  | 88.5  | 86.6  | 104.9 | 98.9  | 137.9 | 154.2 | 165.6 | 163.9 |
| 15°    | 163.0  | 172.6  | 157.8  | 176.8 | 181.2 | 107.4 | 168.3 | 225.5 | 242.7 | 249.6 | 257.5 |
| 17.5°  | 268.8  | 297.3  | 212.4  | 201.1 | 201.9 | 215.1 | 227.1 | 238.4 | 243.6 | 241.0 | 242.0 |
| 20°    | 404.9  | 385.8  | 414.4  | 353.8 | 270.5 | 287.8 | 263.6 | 260.1 | 343.3 | 417.1 | 407.6 |
| 22.5°  | 413.6  | 446.5  | 408.4  | 373.6 | 413.6 | 293.0 | 363.3 | 385.8 | 397.1 | 406.7 | 418.8 |
| 25°    | 669.3  | 653.7  | 572.2  | 429.2 | 408.4 | 391.0 | 394.4 | 403.2 | 424.9 | 457.7 | 477.7 |
| 27.5°  | 711.0  | 707.4  | 632.9  | 578.2 | 435.3 | 488.9 | 404.9 | 487.3 | 526.2 | 560.9 | 567.9 |
| 30°    | 956.3  | 965.9  | 728.3  | 555.7 | 504.6 | 418.8 | 470.0 | 502.1 | 532.3 | 580.9 | 581.7 |
| 32.5°  | 1016.2 | 1036.0 | 805.4  | 614.7 | 528.9 | 433.5 | 472.5 | 496.9 | 612.1 | 657.2 | 658.9 |
| 35°    | 1031.8 | 1082.8 | 830.7  | 593.1 | 510.6 | 431.7 | 436.0 | 519.3 | 576.5 | 668.5 | 701.3 |
| 37.5°  | 1195.6 | 1158.4 | 882.7  | 600.8 | 477.7 | 415.2 | 470.8 | 498.5 | 588.7 | 647.7 | 658.9 |
| 40°    | 1265.0 | 1244.2 | 916.5  | 616.4 | 471.7 | 462.1 | 436.0 | 464.8 | 507.3 | 549.8 | 549.8 |
| 42.5°  | 1394.2 | 1312.7 | 935.6  | 605.2 | 458.7 | 496.0 | 397.9 | 430.1 | 470.0 | 444.8 | 455.3 |
| 45°    | 1565.8 | 1456.6 | 1000.5 | 545.4 | 434.4 | 421.3 | 382.4 | 431.7 | 406.7 | 406.7 | 401.5 |
| 47.5°  | 1787.7 | 1638.7 | 978.9  | 524.5 | 488.9 | 398.8 | 504.6 | 405.8 | 374.6 | 388.3 | 389.2 |
| 50°    | 2139.0 | 1962.1 | 1045.5 | 510.6 | 463.9 | 391.0 | 431.7 | 391.9 | 391.9 | 401.5 | 397.9 |
| 52.5°  | 2579.4 | 2230.9 | 1074.3 | 509.8 | 438.7 | 455.3 | 428.3 | 469.0 | 405.8 | 439.6 | 435.3 |
| 55°    | 3056.3 | 2635.6 | 1103.7 | 503.0 | 434.4 | 411.0 | 523.7 | 449.2 | 421.3 | 482.8 | 484.6 |
| 57.5°  | 3660.6 | 3104.7 | 1225.1 | 488.9 | 436.0 | 411.9 | 494.2 | 503.0 | 513.3 | 554.1 | 560.2 |
| 60°    | 4036.9 | 3364.8 | 1117.6 | 515.0 | 431.7 | 470.0 | 574.8 | 561.8 | 529.7 | 680.6 | 703.2 |
| 62.5°  | 4323.8 | 3561.7 | 920.8  | 536.6 | 510.6 | 473.3 | 593.9 | 655.5 | 625.9 | 686.7 | 704.0 |
| 65°    | 4375.9 | 3544.4 | 704.0  | 536.6 | 503.7 | 551.4 | 712.6 | 653.7 | 557.5 | 563.5 | 556.6 |
| 66°    | 4372.3 | 3491.4 | 648.5  | 541.0 | 510.6 | 574.8 | 699.7 | 661.5 | 539.3 | 545.4 | 532.3 |
| 67.5°  | 4229.3 | 3324.1 | 563.5  | 534.9 | 559.3 | 590.5 | 687.6 | 617.3 | 518.5 | 520.2 | 507.3 |
| 70°    | 3678.6 | 2803.9 | 479.4  | 549.8 | 580.0 | 592.2 | 751.7 | 574.8 | 476.0 | 463.9 | 461.3 |
| 72.5°  | 2706.0 | 1988.8 | 449.2  | 547.1 | 588.7 | 573.9 | 633.8 | 472.5 | 411.0 | 386.7 | 384.0 |
| 75°    | 1521.5 | 1016.2 | 447.4  | 524.5 | 521.0 | 492.5 | 479.4 | 364.2 | 339.9 | 311.3 | 306.1 |
| 77.5°  | 701.3  | 489.8  | 378.8  | 422.3 | 393.5 | 389.2 | 357.2 | 303.4 | 289.6 | 270.5 | 262.8 |
| 80°    | 405.8  | 345.9  | 269.6  | 280.0 | 282.6 | 274.8 | 288.7 | 273.2 | 258.4 | 244.5 | 231.6 |
| 82.5°  | 236.8  | 219.4  | 196.8  | 184.7 | 184.7 | 197.6 | 237.5 | 227.1 | 216.0 | 203.7 | 175.1 |
| 85°    | 148.3  | 142.2  | 134.3  | 129.1 | 129.1 | 118.8 | 170.8 | 189.9 | 179.5 | 153.5 | 137.0 |
| 87.5°  | 97.0   | 101.5  | 90.2   | 91.1  | 88.5  | 79.0  | 115.3 | 127.5 | 109.2 | 87.6  | 72.9  |
| 90°    | 44.2   | 48.6   | 52.9   | 52.0  | 56.4  | 43.4  | 63.3  | 65.0  | 58.1  | 39.9  | 28.7  |
| 92.5°  | 33.9   | 39.9   | 44.2   | 44.2  | 48.6  | 29.5  | 46.0  | 51.2  | 47.7  | 37.3  | 26.9  |
| 95°    | 28.7   | 35.6   | 42.5   | 41.6  | 41.6  | 23.4  | 42.5  | 47.7  | 45.0  | 32.1  | 23.4  |
| 97.5°  | 23.4   | 28.7   | 34.7   | 34.7  | 38.2  | 19.9  | 39.0  | 46.0  | 43.4  | 32.1  | 22.5  |
| 100°   | 21.6   | 26.1   | 30.4   | 31.3  | 34.7  | 15.6  | 35.6  | 43.4  | 39.0  | 26.9  | 21.6  |
| 102.5° | 19.9   | 21.6   | 25.2   | 25.2  | 26.1  | 13.8  | 28.7  | 35.6  | 31.3  | 20.8  | 20.8  |
| 105°   | 18.2   | 18.2   | 18.2   | 16.4  | 16.4  | 11.3  | 17.3  | 24.3  | 19.0  | 16.4  | 18.2  |
| 107.5° | 17.3   | 16.4   | 13.8   | 13.0  | 12.1  | 9.5   | 12.1  | 14.7  | 11.3  | 14.7  | 16.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 16.4 | 16.4 | 13.0 | 11.3 | 10.4 | 8.7  | 10.4 | 9.5  | 9.5  | 14.7 | 15.6 |
| 112.5° | 16.4 | 15.6 | 11.3 | 9.5  | 8.7  | 7.8  | 8.7  | 6.9  | 8.7  | 14.7 | 15.6 |
| 115°   | 15.6 | 15.6 | 10.4 | 8.7  | 8.7  | 6.9  | 6.9  | 6.1  | 7.8  | 13.8 | 15.6 |
| 117.5° | 15.6 | 15.6 | 10.4 | 7.8  | 6.9  | 6.1  | 6.1  | 6.1  | 7.8  | 13.8 | 15.6 |
| 120°   | 15.6 | 14.7 | 10.4 | 7.8  | 6.1  | 5.2  | 5.2  | 5.2  | 7.8  | 13.8 | 14.7 |
| 122.5° | 14.7 | 13.8 | 9.5  | 6.9  | 6.1  | 5.2  | 4.3  | 5.2  | 7.8  | 13.0 | 13.8 |
| 125°   | 13.8 | 13.8 | 9.5  | 6.1  | 5.2  | 4.3  | 3.5  | 4.3  | 7.8  | 13.0 | 13.8 |
| 127.5° | 13.8 | 13.0 | 8.7  | 5.2  | 4.3  | 4.3  | 3.5  | 4.3  | 7.8  | 12.1 | 13.0 |
| 130°   | 12.1 | 12.1 | 7.8  | 5.2  | 3.5  | 3.5  | 2.6  | 3.5  | 7.8  | 12.1 | 12.1 |
| 132.5° | 11.3 | 10.4 | 6.9  | 4.3  | 3.5  | 2.6  | 2.6  | 2.6  | 6.9  | 10.4 | 11.3 |
| 135°   | 9.5  | 8.7  | 6.1  | 3.5  | 2.6  | 2.6  | 1.7  | 2.6  | 6.1  | 9.5  | 9.5  |
| 137.5° | 7.8  | 7.8  | 6.1  | 3.5  | 2.6  | 1.7  | 1.7  | 2.6  | 6.1  | 8.7  | 9.5  |
| 140°   | 6.9  | 6.1  | 4.3  | 2.6  | 1.7  | 1.7  | 1.7  | 2.6  | 5.2  | 6.9  | 7.8  |
| 142.5° | 5.2  | 5.2  | 3.5  | 2.6  | 1.7  | 1.7  | 0.9  | 1.7  | 4.3  | 6.1  | 6.1  |
| 145°   | 4.3  | 4.3  | 3.5  | 1.7  | 1.7  | 0.9  | 0.9  | 0.9  | 3.5  | 4.3  | 5.2  |
| 147.5° | 3.5  | 3.5  | 2.6  | 1.7  | 0.9  | 0.9  | 0.0  | 0.9  | 2.6  | 3.5  | 3.5  |
| 150°   | 2.6  | 2.6  | 2.6  | 1.7  | 0.9  | 0.0  | 0.0  | 0.0  | 0.9  | 1.7  | 1.7  |
| 152.5° | 1.7  | 1.7  | 1.7  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 1.7  | 0.9  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.9  | 0.9  | 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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