

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: P241132

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-CL**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P241132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-80-D-U-T2U-CL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7666 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 83  
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

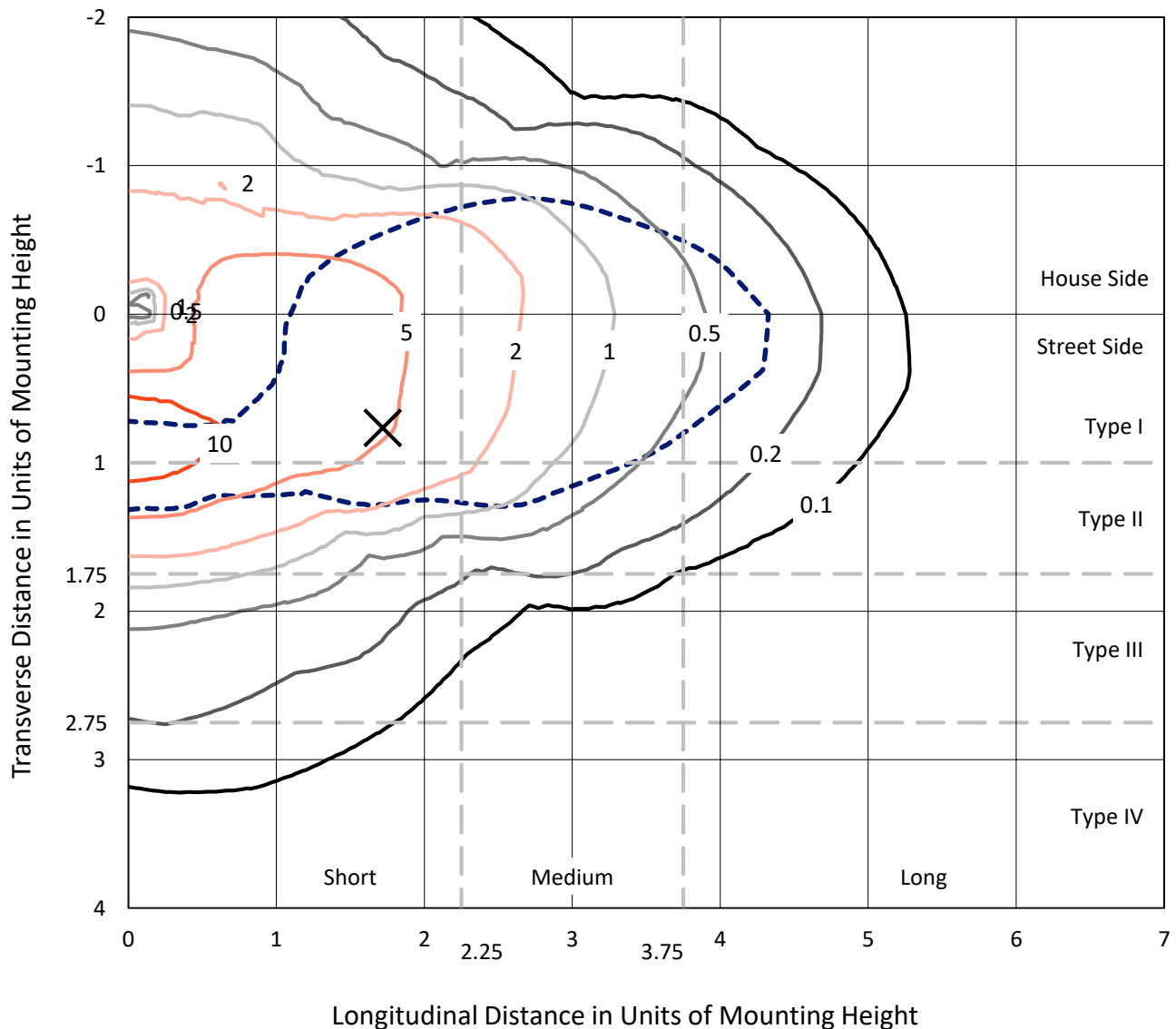


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

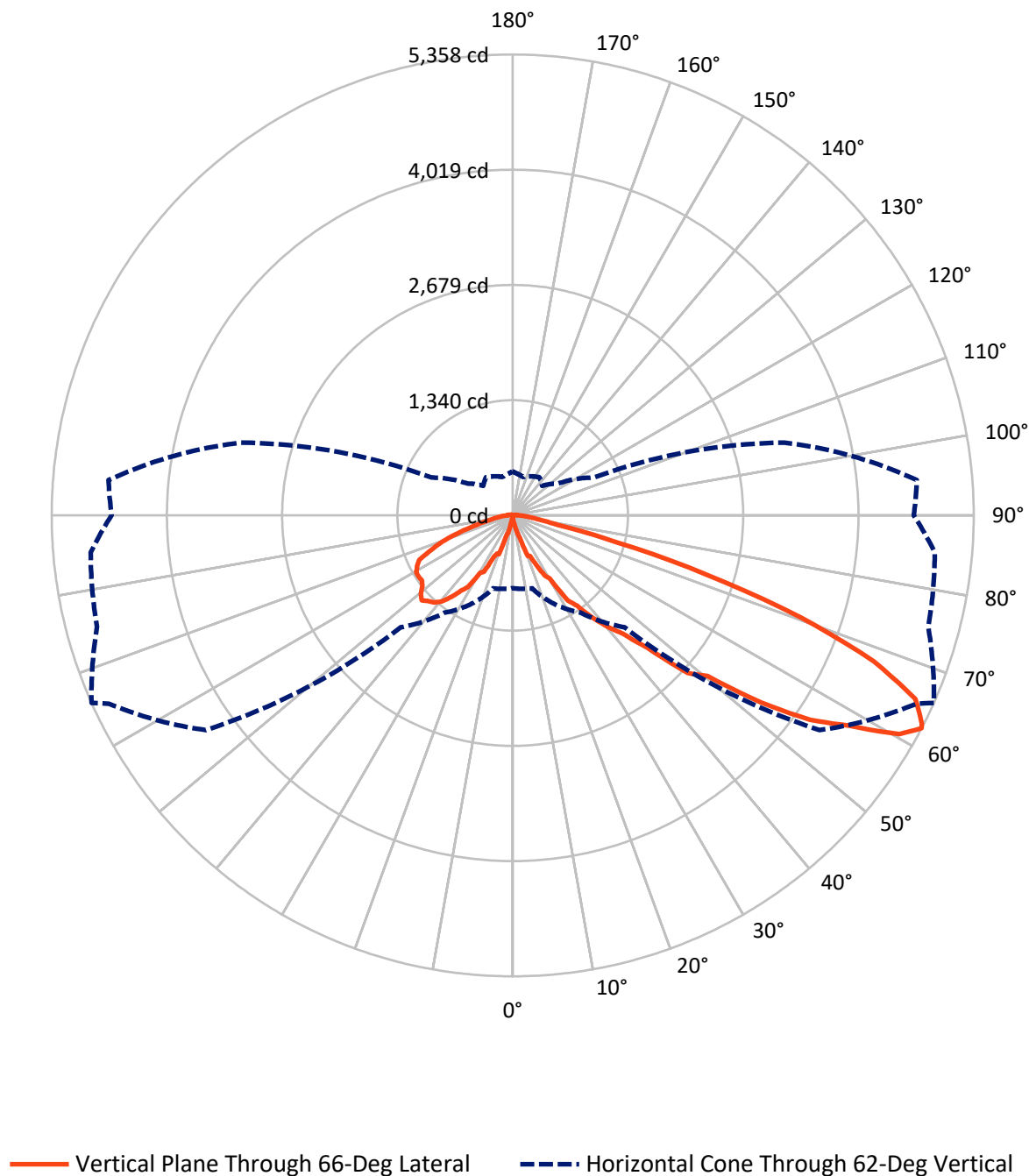


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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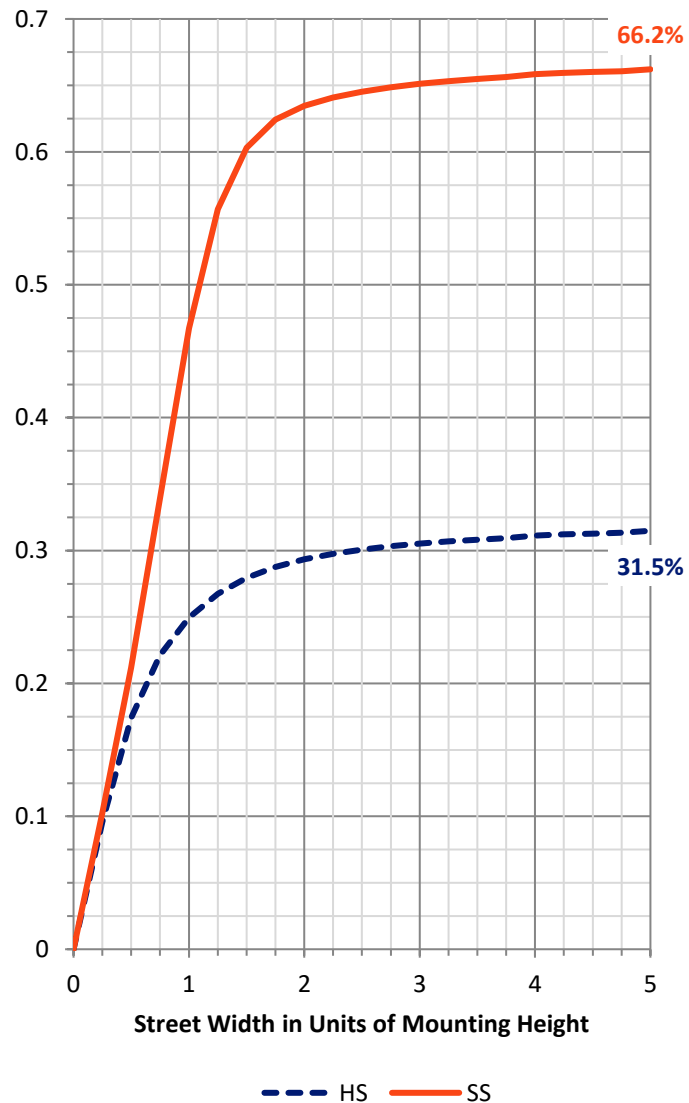
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2459.0   | 58.6   | 2517.6 |
|                    | % Fixture | 32.1     | 0.8    | 32.8   |
| <b>Street Side</b> | Lumens    | 5105.3   | 43.1   | 5148.4 |
|                    | % Fixture | 66.6     | 0.6    | 67.2   |
| <b>Total</b>       | Lumens    | 7564.3   | 101.7  | 7666.0 |
|                    | % Fixture | 98.7     | 1.3    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.8    | 0.1       |
| 10°-20°   | 77.8   | 1.0       |
| 20°-30°   | 308.2  | 4.0       |
| 30°-40°   | 767.9  | 10.0      |
| 40°-50°   | 1464.3 | 19.1      |
| 50°-60°   | 1997.0 | 26.0      |
| 60°-70°   | 1834.5 | 23.9      |
| 70°-80°   | 935.8  | 12.2      |
| 80°-90°   | 172.1  | 2.2       |
| 90°-100°  | 45.5   | 0.6       |
| 100°-110° | 21.9   | 0.3       |
| 110°-120° | 13.2   | 0.2       |
| 120°-130° | 10.2   | 0.1       |
| 130°-140° | 6.8    | 0.1       |
| 140°-150° | 3.3    | 0.0       |
| 150°-160° | 0.8    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 7564.3 | 98.7      |
| 0°-180°   | 7666.0 | 100.0     |

**Coefficient of Utilization**



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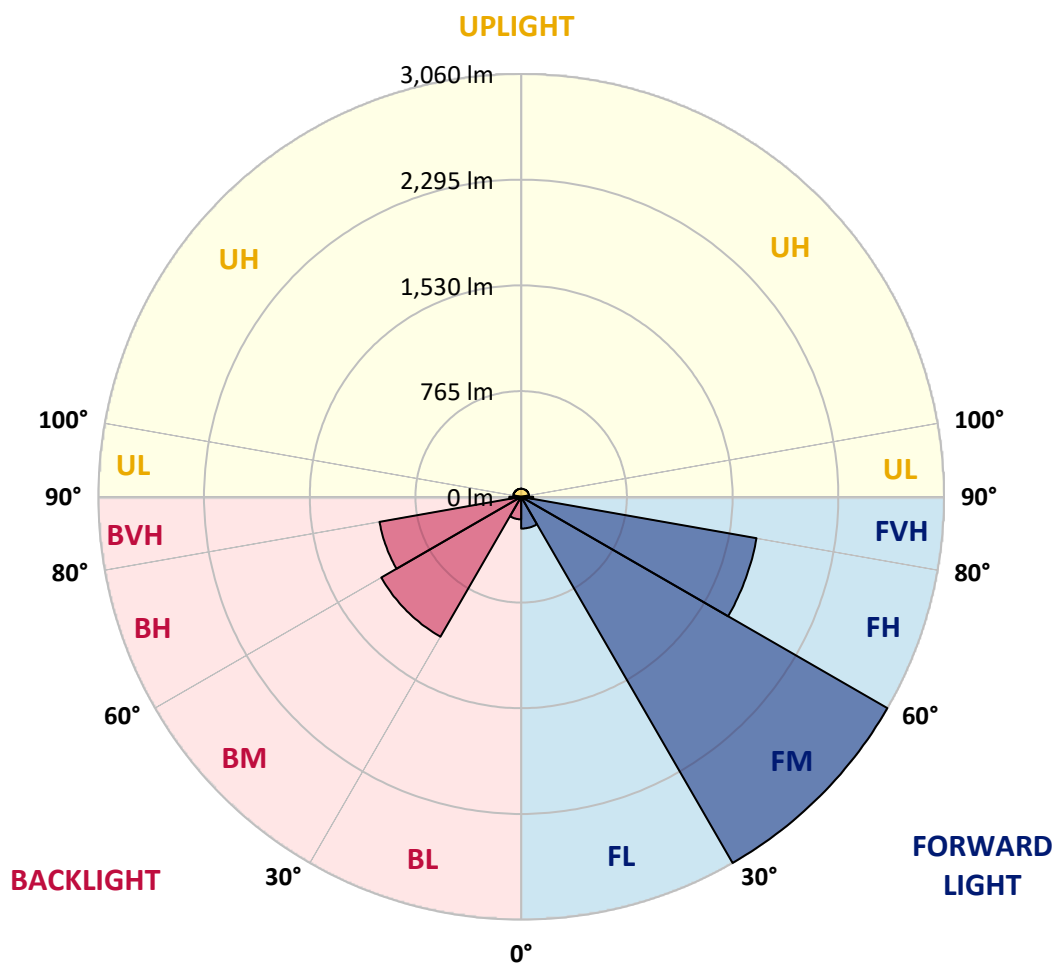
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 229.7  | 3.0       |                         |        |         |
| FM   | (30°-60°)   | 3059.9 | 39.9      |                         |        |         |
| FH   | (60°-80°)   | 1729.2 | 22.6      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 86.4   | 1.1       |                         |        | G1/100  |
| BL   | (0°-30°)    | 163.0  | 2.1       | B1/500                  |        |         |
| BM   | (30°-60°)   | 1169.2 | 15.3      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 1041.0 | 13.6      | B3/2500                 |        | G3/2500 |
| BVH  | (80°-90°)   | 85.8   | 1.1       |                         |        | G1/100  |
| UL   | (90°-100°)  | 45.5   | 0.6       |                         | U2/50  |         |
| UH   | (100°-180°) | 58.6   | 0.8       |                         | U3/500 |         |

**BUG Rating: B3-U3-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   |
| 2.5°   | 95.3   | 90.6   | 67.9   | 59.4   | 50.0   | 40.6   | 31.1   | 26.4   | 25.5   | 23.6   | 21.7   |
| 5°     | 95.3   | 95.3   | 98.2   | 103.8  | 115.2  | 104.8  | 110.5  | 39.7   | 37.7   | 25.5   | 20.8   |
| 7.5°   | 182.2  | 177.5  | 222.7  | 157.6  | 99.1   | 92.5   | 140.7  | 85.9   | 85.9   | 39.7   | 23.6   |
| 10°    | 246.3  | 245.4  | 301.1  | 192.5  | 177.5  | 215.2  | 95.3   | 98.2   | 98.2   | 67.9   | 33.0   |
| 12.5°  | 241.6  | 239.8  | 243.5  | 265.3  | 222.7  | 188.7  | 191.6  | 125.5  | 156.7  | 247.2  | 253.9  |
| 15°    | 339.8  | 357.7  | 338.8  | 259.5  | 237.8  | 236.9  | 305.8  | 232.2  | 236.0  | 271.8  | 199.2  |
| 17.5°  | 453.1  | 454.9  | 495.5  | 420.9  | 331.3  | 350.2  | 323.8  | 324.7  | 286.9  | 301.1  | 337.0  |
| 20°    | 493.6  | 485.1  | 507.8  | 471.0  | 471.0  | 419.1  | 330.3  | 468.1  | 503.1  | 472.8  | 467.2  |
| 22.5°  | 847.5  | 843.8  | 738.1  | 516.3  | 534.2  | 489.9  | 500.2  | 545.5  | 512.5  | 481.4  | 472.8  |
| 25°    | 966.5  | 954.2  | 917.4  | 880.6  | 655.0  | 687.1  | 605.9  | 592.7  | 629.5  | 759.7  | 822.0  |
| 27.5°  | 1285.5 | 1299.7 | 1109.9 | 991.0  | 883.4  | 739.0  | 692.7  | 851.3  | 790.0  | 831.6  | 822.0  |
| 30°    | 1617.7 | 1610.1 | 1543.1 | 1325.1 | 1109.9 | 917.4  | 919.3  | 893.9  | 852.3  | 979.7  | 1112.8 |
| 32.5°  | 2097.2 | 2121.7 | 1815.0 | 1586.6 | 1387.4 | 1116.6 | 1011.8 | 1188.3 | 1180.7 | 1144.0 | 1194.0 |
| 35°    | 2614.4 | 2610.7 | 2359.5 | 1983.0 | 1500.7 | 1262.8 | 1209.0 | 1313.8 | 1288.3 | 1231.7 | 1324.2 |
| 37.5°  | 2942.8 | 2906.0 | 2735.2 | 2411.5 | 1834.8 | 1439.3 | 1458.2 | 1534.6 | 1509.2 | 1434.6 | 1605.4 |
| 40°    | 3418.5 | 3378.0 | 3174.1 | 2734.2 | 2287.8 | 1744.2 | 1850.8 | 1788.5 | 1705.5 | 1692.3 | 1714.0 |
| 42.5°  | 3593.1 | 3595.1 | 3395.9 | 3075.9 | 2681.5 | 2180.2 | 2236.0 | 1962.2 | 1878.2 | 2018.9 | 1971.6 |
| 45°    | 3647.8 | 3640.4 | 3501.6 | 3261.9 | 2937.2 | 2701.2 | 2523.8 | 2278.4 | 2193.4 | 2321.8 | 2372.7 |
| 47.5°  | 3528.1 | 3497.8 | 3520.5 | 3252.5 | 3207.2 | 2928.7 | 2891.9 | 2718.2 | 2737.1 | 2664.4 | 2784.3 |
| 50°    | 3206.1 | 3161.8 | 3221.3 | 3151.4 | 3344.9 | 3175.0 | 3603.5 | 2945.7 | 2935.3 | 3066.5 | 3215.6 |
| 52.5°  | 2706.9 | 2673.9 | 2866.4 | 2808.8 | 3314.8 | 3444.1 | 3745.1 | 3600.7 | 3610.1 | 3622.4 | 3541.3 |
| 55°    | 2218.0 | 2234.9 | 2382.2 | 2348.3 | 2877.8 | 3502.6 | 4217.9 | 4137.7 | 4192.5 | 3888.5 | 3889.5 |
| 57.5°  | 1583.7 | 1621.5 | 1886.7 | 1906.6 | 2398.3 | 3080.6 | 4597.3 | 4469.1 | 4609.6 | 4325.5 | 4388.8 |
| 60°    | 1091.1 | 1113.7 | 1257.2 | 1457.3 | 1799.9 | 2557.8 | 4395.4 | 5035.3 | 5162.7 | 4770.1 | 4767.3 |
| 62°    | 846.6  | 856.0  | 877.8  | 1133.5 | 1381.8 | 1838.5 | 4351.0 | 5177.9 | 5358.1 | 5000.4 | 4923.1 |
| 62.5°  | 785.2  | 795.7  | 809.8  | 1028.8 | 1274.2 | 1671.5 | 4184.9 | 5209.0 | 5337.3 | 5029.6 | 4949.4 |
| 65°    | 628.6  | 633.3  | 601.2  | 684.3  | 900.4  | 998.6  | 3007.1 | 5062.7 | 5144.8 | 4993.8 | 4873.0 |
| 67.5°  | 582.4  | 565.4  | 521.0  | 498.4  | 673.9  | 643.6  | 1636.6 | 4315.2 | 4527.6 | 4779.5 | 4654.0 |
| 70°    | 482.3  | 520.1  | 484.2  | 445.5  | 538.0  | 494.6  | 694.7  | 3492.1 | 3551.6 | 4375.6 | 4358.6 |
| 72.5°  | 369.1  | 396.4  | 424.7  | 420.0  | 414.3  | 398.3  | 461.6  | 2182.2 | 2356.8 | 3591.3 | 4035.8 |
| 75°    | 299.2  | 310.6  | 370.0  | 357.7  | 368.1  | 315.3  | 363.4  | 1037.3 | 1255.3 | 2541.7 | 3510.1 |
| 77.5°  | 240.7  | 248.3  | 287.9  | 277.5  | 304.8  | 246.3  | 289.8  | 470.0  | 532.3  | 1461.1 | 2403.9 |
| 80°    | 159.5  | 163.3  | 209.5  | 207.7  | 222.7  | 218.0  | 219.0  | 329.4  | 333.2  | 683.3  | 1258.1 |
| 82.5°  | 119.0  | 117.0  | 144.4  | 145.4  | 144.4  | 157.6  | 150.1  | 225.6  | 235.0  | 335.0  | 418.1  |
| 85°    | 77.4   | 74.6   | 85.9   | 91.6   | 87.8   | 86.8   | 113.2  | 158.6  | 165.2  | 238.8  | 249.2  |
| 87.5°  | 42.5   | 45.3   | 56.7   | 56.7   | 59.4   | 58.5   | 92.5   | 105.7  | 110.5  | 159.5  | 134.0  |
| 90°    | 28.3   | 28.3   | 31.1   | 30.2   | 32.1   | 31.1   | 48.2   | 62.3   | 63.2   | 80.2   | 71.7   |
| 92.5°  | 25.5   | 27.4   | 31.1   | 31.1   | 34.0   | 29.3   | 43.4   | 52.9   | 53.8   | 65.2   | 54.7   |
| 95°    | 22.6   | 23.6   | 26.4   | 27.4   | 29.3   | 20.8   | 33.0   | 43.4   | 44.4   | 53.8   | 44.4   |
| 97.5°  | 18.9   | 20.8   | 22.6   | 23.6   | 26.4   | 18.9   | 27.4   | 34.9   | 35.9   | 41.5   | 34.0   |
| 100°   | 18.9   | 19.8   | 19.8   | 19.8   | 22.6   | 16.1   | 23.6   | 30.2   | 31.1   | 34.0   | 28.3   |
| 102.5° | 17.9   | 18.9   | 17.9   | 17.0   | 18.9   | 14.1   | 20.8   | 25.5   | 25.5   | 24.6   | 23.6   |
| 105°   | 17.9   | 17.9   | 15.1   | 13.2   | 16.1   | 13.2   | 17.9   | 18.9   | 18.9   | 18.9   | 21.7   |
| 107.5° | 17.0   | 17.0   | 14.1   | 12.3   | 13.2   | 11.4   | 15.1   | 16.1   | 16.1   | 17.0   | 20.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 66°  | 75°  | 85°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 16.1 | 15.1 | 12.3 | 10.3 | 10.3 | 10.3 | 12.3 | 13.2 | 13.2 | 15.1 | 21.7 |
| 112.5° | 14.1 | 14.1 | 10.3 | 9.4  | 9.4  | 9.4  | 11.4 | 12.3 | 12.3 | 14.1 | 20.8 |
| 115°   | 13.2 | 13.2 | 10.3 | 8.5  | 8.5  | 8.5  | 10.3 | 11.4 | 11.4 | 13.2 | 20.8 |
| 117.5° | 14.1 | 13.2 | 9.4  | 8.5  | 7.6  | 7.6  | 8.5  | 10.3 | 10.3 | 13.2 | 20.8 |
| 120°   | 12.3 | 12.3 | 9.4  | 7.6  | 6.6  | 7.6  | 8.5  | 9.4  | 10.3 | 14.1 | 20.8 |
| 122.5° | 13.2 | 12.3 | 9.4  | 6.6  | 6.6  | 6.6  | 7.6  | 9.4  | 9.4  | 13.2 | 18.9 |
| 125°   | 12.3 | 11.4 | 8.5  | 6.6  | 5.6  | 6.6  | 7.6  | 8.5  | 9.4  | 13.2 | 18.9 |
| 127.5° | 12.3 | 11.4 | 8.5  | 6.6  | 5.6  | 5.6  | 7.6  | 8.5  | 8.5  | 12.3 | 17.9 |
| 130°   | 11.4 | 11.4 | 7.6  | 5.6  | 5.6  | 5.6  | 6.6  | 7.6  | 7.6  | 11.4 | 16.1 |
| 132.5° | 10.3 | 9.4  | 7.6  | 5.6  | 4.7  | 5.6  | 6.6  | 6.6  | 6.6  | 10.3 | 15.1 |
| 135°   | 9.4  | 9.4  | 7.6  | 5.6  | 4.7  | 4.7  | 5.6  | 6.6  | 6.6  | 9.4  | 13.2 |
| 137.5° | 8.5  | 8.5  | 7.6  | 5.6  | 4.7  | 4.7  | 4.7  | 5.6  | 5.6  | 8.5  | 11.4 |
| 140°   | 8.5  | 8.5  | 7.6  | 5.6  | 4.7  | 4.7  | 4.7  | 4.7  | 4.7  | 6.6  | 9.4  |
| 142.5° | 8.5  | 8.5  | 7.6  | 5.6  | 4.7  | 3.8  | 3.8  | 3.8  | 3.8  | 5.6  | 7.6  |
| 145°   | 7.6  | 7.6  | 6.6  | 5.6  | 3.8  | 2.9  | 2.9  | 3.8  | 3.8  | 4.7  | 5.6  |
| 147.5° | 7.6  | 7.6  | 6.6  | 4.7  | 2.9  | 1.8  | 1.8  | 2.9  | 2.9  | 3.8  | 4.7  |
| 150°   | 5.6  | 5.6  | 5.6  | 3.8  | 1.8  | 0.0  | 1.8  | 1.8  | 1.8  | 3.8  | 3.8  |
| 152.5° | 3.8  | 3.8  | 2.9  | 1.8  | 0.9  | 0.9  | 0.9  | 1.8  | 1.8  | 1.8  | 2.9  |
| 155°   | 1.8  | 1.8  | 1.8  | 0.9  | 0.9  | 0.0  | 0.0  | 0.9  | 0.9  | 1.8  | 1.8  |
| 157.5° | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.9  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.9  | 0.9  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.9  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.9  | 0.9  | 0.9  | 0.0  | 0.9  | 0.9  | 0.9  | 0.9  |
| 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°     | 22.6   | 22.6   | 22.6   | 22.6   | 22.6  | 22.6  | 22.6  | 22.6  | 22.6  | 22.6  | 22.6  |
| 2.5°   | 21.7   | 20.8   | 20.8   | 20.8   | 21.7  | 21.7  | 21.7  | 20.8  | 19.8  | 19.8  | 19.8  |
| 5°     | 19.8   | 18.9   | 18.9   | 18.9   | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  |
| 7.5°   | 21.7   | 19.8   | 19.8   | 18.9   | 18.9  | 19.8  | 21.7  | 32.1  | 55.6  | 78.4  | 91.6  |
| 10°    | 30.2   | 30.2   | 26.4   | 24.6   | 24.6  | 35.9  | 133.1 | 144.4 | 144.4 | 136.9 | 132.2 |
| 12.5°  | 273.7  | 216.1  | 190.7  | 67.0   | 54.7  | 111.4 | 127.5 | 119.9 | 166.1 | 193.4 | 204.8 |
| 15°    | 198.2  | 217.1  | 234.1  | 210.5  | 284.1 | 119.0 | 192.5 | 234.1 | 315.3 | 319.1 | 321.8 |
| 17.5°  | 333.2  | 359.6  | 259.5  | 226.5  | 265.3 | 352.0 | 287.9 | 298.3 | 298.3 | 298.3 | 299.2 |
| 20°    | 469.1  | 477.6  | 498.4  | 476.6  | 266.2 | 370.9 | 369.1 | 300.1 | 337.9 | 420.9 | 444.6 |
| 22.5°  | 498.4  | 515.4  | 490.8  | 475.7  | 562.5 | 346.4 | 381.4 | 477.6 | 483.2 | 460.6 | 471.9 |
| 25°    | 845.7  | 821.1  | 721.1  | 507.8  | 561.6 | 484.2 | 492.7 | 447.3 | 459.6 | 446.4 | 454.9 |
| 27.5°  | 839.0  | 825.8  | 745.6  | 732.4  | 589.9 | 572.9 | 457.8 | 516.3 | 548.4 | 569.2 | 565.4 |
| 30°    | 1172.2 | 1094.9 | 863.6  | 756.0  | 696.5 | 548.4 | 503.1 | 488.9 | 485.1 | 509.6 | 511.6 |
| 32.5°  | 1177.9 | 1166.6 | 994.8  | 977.8  | 716.4 | 555.0 | 474.8 | 446.4 | 509.6 | 543.6 | 538.0 |
| 35°    | 1366.7 | 1308.1 | 1137.3 | 1055.2 | 823.1 | 521.9 | 423.8 | 446.4 | 456.8 | 481.4 | 480.4 |
| 37.5°  | 1535.7 | 1517.6 | 1378.0 | 1165.7 | 792.8 | 475.7 | 478.5 | 475.7 | 463.4 | 467.2 | 467.2 |
| 40°    | 1760.2 | 1661.2 | 1536.6 | 1268.5 | 741.8 | 509.6 | 516.3 | 449.3 | 437.0 | 430.4 | 430.4 |
| 42.5°  | 2027.4 | 1859.3 | 1744.2 | 1318.5 | 705.0 | 600.3 | 488.9 | 438.8 | 426.6 | 407.7 | 404.9 |
| 45°    | 2342.6 | 2134.0 | 1961.3 | 1334.5 | 591.8 | 622.0 | 507.8 | 499.3 | 458.7 | 441.7 | 435.1 |
| 47.5°  | 2619.2 | 2451.1 | 2211.4 | 1361.0 | 686.2 | 593.6 | 668.2 | 567.2 | 442.6 | 467.2 | 463.4 |
| 50°    | 3034.4 | 2818.2 | 2387.0 | 1294.0 | 733.4 | 576.6 | 694.7 | 496.4 | 455.8 | 488.9 | 487.0 |
| 52.5°  | 3401.5 | 3195.8 | 2571.0 | 1193.0 | 693.7 | 797.5 | 616.3 | 569.2 | 528.6 | 511.6 | 509.6 |
| 55°    | 3785.7 | 3579.9 | 2695.6 | 1142.0 | 685.2 | 638.0 | 640.9 | 616.3 | 477.6 | 514.3 | 513.4 |
| 57.5°  | 4227.4 | 4114.1 | 2966.5 | 1120.3 | 702.3 | 563.4 | 640.9 | 515.4 | 544.6 | 514.3 | 520.1 |
| 60°    | 4463.3 | 4463.3 | 3124.1 | 1098.6 | 648.4 | 578.6 | 550.2 | 566.3 | 472.8 | 478.5 | 493.6 |
| 62°    | 4661.6 | 4714.4 | 3268.4 | 1041.1 | 646.5 | 485.1 | 540.8 | 500.2 | 462.5 | 490.8 | 509.6 |
| 62.5°  | 4728.6 | 4769.2 | 3311.9 | 1029.7 | 662.6 | 459.6 | 501.1 | 499.3 | 479.5 | 483.2 | 500.2 |
| 65°    | 4793.6 | 4981.6 | 3415.7 | 958.0  | 609.7 | 434.1 | 428.5 | 473.8 | 415.3 | 397.3 | 398.3 |
| 67.5°  | 4731.5 | 4990.1 | 3380.8 | 771.1  | 494.6 | 372.8 | 378.5 | 395.5 | 374.7 | 368.1 | 371.8 |
| 70°    | 4504.0 | 4608.7 | 3025.0 | 636.2  | 426.6 | 341.7 | 363.4 | 349.2 | 343.5 | 342.6 | 341.7 |
| 72.5°  | 4192.5 | 3993.3 | 2375.6 | 478.5  | 367.1 | 296.3 | 311.5 | 321.8 | 323.8 | 319.1 | 313.3 |
| 75°    | 3536.5 | 3136.4 | 1549.8 | 358.6  | 293.5 | 251.0 | 284.1 | 292.6 | 300.1 | 286.9 | 282.2 |
| 77.5°  | 2427.6 | 1977.4 | 802.3  | 285.0  | 253.9 | 210.5 | 249.2 | 262.4 | 270.0 | 250.1 | 253.0 |
| 80°    | 1126.9 | 902.3  | 370.9  | 233.1  | 210.5 | 174.6 | 211.4 | 228.4 | 238.8 | 212.4 | 203.0 |
| 82.5°  | 380.3  | 347.3  | 223.7  | 180.2  | 172.7 | 133.1 | 170.8 | 190.7 | 193.4 | 176.5 | 150.1 |
| 85°    | 226.5  | 227.5  | 156.7  | 138.7  | 127.5 | 83.1  | 122.7 | 150.1 | 150.1 | 124.6 | 101.9 |
| 87.5°  | 130.2  | 146.3  | 119.9  | 105.7  | 95.3  | 56.7  | 91.6  | 102.9 | 101.0 | 79.3  | 56.7  |
| 90°    | 65.2   | 76.4   | 70.8   | 69.9   | 71.7  | 35.9  | 71.7  | 77.4  | 77.4  | 54.7  | 34.9  |
| 92.5°  | 48.2   | 58.5   | 63.2   | 59.4   | 60.4  | 27.4  | 57.6  | 58.5  | 57.6  | 42.5  | 27.4  |
| 95°    | 40.6   | 50.9   | 63.2   | 59.4   | 57.6  | 22.6  | 52.9  | 53.8  | 54.7  | 41.5  | 30.2  |
| 97.5°  | 32.1   | 38.7   | 49.1   | 48.2   | 51.9  | 18.9  | 48.2  | 48.2  | 46.2  | 34.0  | 25.5  |
| 100°   | 29.3   | 34.0   | 41.5   | 41.5   | 45.3  | 17.0  | 42.5  | 38.7  | 36.8  | 27.4  | 23.6  |
| 102.5° | 24.6   | 27.4   | 32.1   | 31.1   | 34.0  | 16.1  | 31.1  | 30.2  | 28.3  | 23.6  | 22.6  |
| 105°   | 23.6   | 24.6   | 24.6   | 22.6   | 23.6  | 15.1  | 21.7  | 20.8  | 19.8  | 19.8  | 20.8  |
| 107.5° | 22.6   | 22.6   | 20.8   | 18.9   | 18.9  | 14.1  | 16.1  | 15.1  | 16.1  | 20.8  | 21.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 22.6 | 22.6 | 18.9 | 17.0 | 15.1 | 13.2 | 14.1 | 12.3 | 14.1 | 20.8 | 22.6 |
| 112.5° | 22.6 | 22.6 | 17.0 | 14.1 | 14.1 | 12.3 | 12.3 | 11.4 | 13.2 | 20.8 | 22.6 |
| 115°   | 21.7 | 21.7 | 16.1 | 13.2 | 12.3 | 11.4 | 11.4 | 10.3 | 13.2 | 20.8 | 22.6 |
| 117.5° | 21.7 | 21.7 | 16.1 | 13.2 | 11.4 | 10.3 | 10.3 | 9.4  | 13.2 | 21.7 | 22.6 |
| 120°   | 21.7 | 21.7 | 16.1 | 12.3 | 11.4 | 10.3 | 9.4  | 9.4  | 13.2 | 20.8 | 22.6 |
| 122.5° | 20.8 | 19.8 | 15.1 | 11.4 | 10.3 | 9.4  | 9.4  | 9.4  | 13.2 | 21.7 | 22.6 |
| 125°   | 19.8 | 18.9 | 15.1 | 11.4 | 9.4  | 9.4  | 8.5  | 8.5  | 13.2 | 20.8 | 21.7 |
| 127.5° | 18.9 | 18.9 | 14.1 | 10.3 | 9.4  | 8.5  | 8.5  | 8.5  | 13.2 | 21.7 | 21.7 |
| 130°   | 17.9 | 17.0 | 13.2 | 9.4  | 8.5  | 7.6  | 7.6  | 8.5  | 14.1 | 19.8 | 20.8 |
| 132.5° | 16.1 | 15.1 | 12.3 | 8.5  | 7.6  | 7.6  | 7.6  | 7.6  | 13.2 | 19.8 | 19.8 |
| 135°   | 13.2 | 13.2 | 10.3 | 7.6  | 6.6  | 6.6  | 6.6  | 7.6  | 12.3 | 17.0 | 17.9 |
| 137.5° | 12.3 | 11.4 | 9.4  | 7.6  | 5.6  | 6.6  | 6.6  | 7.6  | 12.3 | 16.1 | 17.0 |
| 140°   | 10.3 | 9.4  | 7.6  | 5.6  | 5.6  | 5.6  | 5.6  | 6.6  | 10.3 | 14.1 | 15.1 |
| 142.5° | 7.6  | 7.6  | 6.6  | 4.7  | 4.7  | 4.7  | 4.7  | 6.6  | 9.4  | 12.3 | 12.3 |
| 145°   | 6.6  | 6.6  | 5.6  | 4.7  | 3.8  | 2.9  | 2.9  | 4.7  | 7.6  | 10.3 | 10.3 |
| 147.5° | 4.7  | 4.7  | 4.7  | 3.8  | 2.9  | 2.9  | 2.9  | 3.8  | 5.6  | 7.6  | 7.6  |
| 150°   | 3.8  | 3.8  | 3.8  | 2.9  | 2.9  | 1.8  | 1.8  | 2.9  | 4.7  | 5.6  | 5.6  |
| 152.5° | 2.9  | 2.9  | 2.9  | 2.9  | 1.8  | 1.8  | 1.8  | 1.8  | 2.9  | 3.8  | 3.8  |
| 155°   | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  | 0.9  | 0.9  | 0.9  | 1.8  | 1.8  |
| 157.5° | 0.9  | 0.9  | 0.9  | 1.8  | 1.8  | 1.8  | 0.9  | 0.9  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.9  | 0.9  | 0.9  | 1.8  | 1.8  | 1.8  | 0.9  | 0.9  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.9  | 0.9  | 0.9  | 0.9  | 1.8  | 1.8  | 0.9  | 0.9  | 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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