

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: P588373

Luminaire Tested: **ARC-CA6-110-722-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-110-722-U-55-6-5-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8635 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G3

Input Watts (W): 112.2  
Input Voltage (V): 120  
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: 25 FT



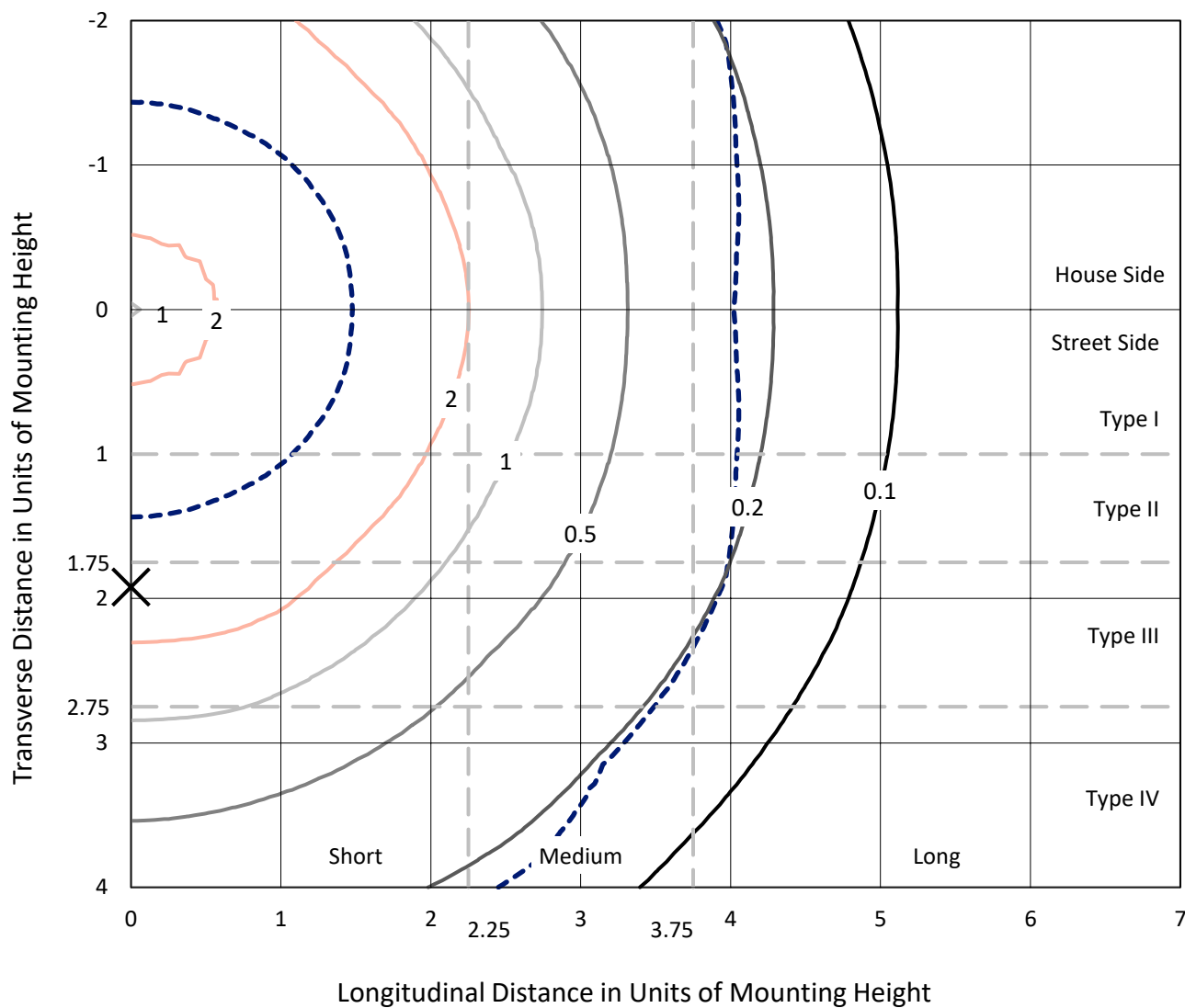
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

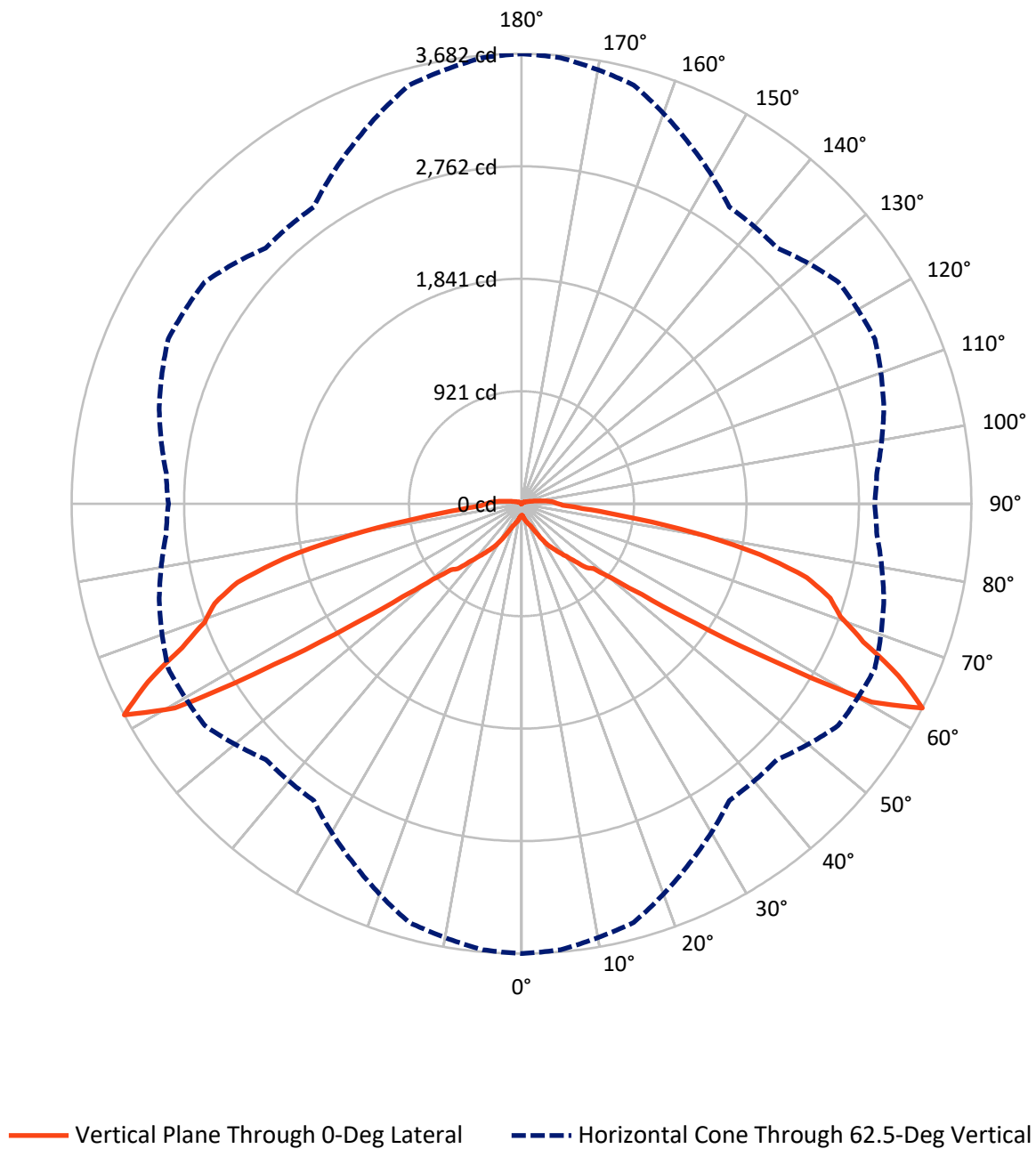


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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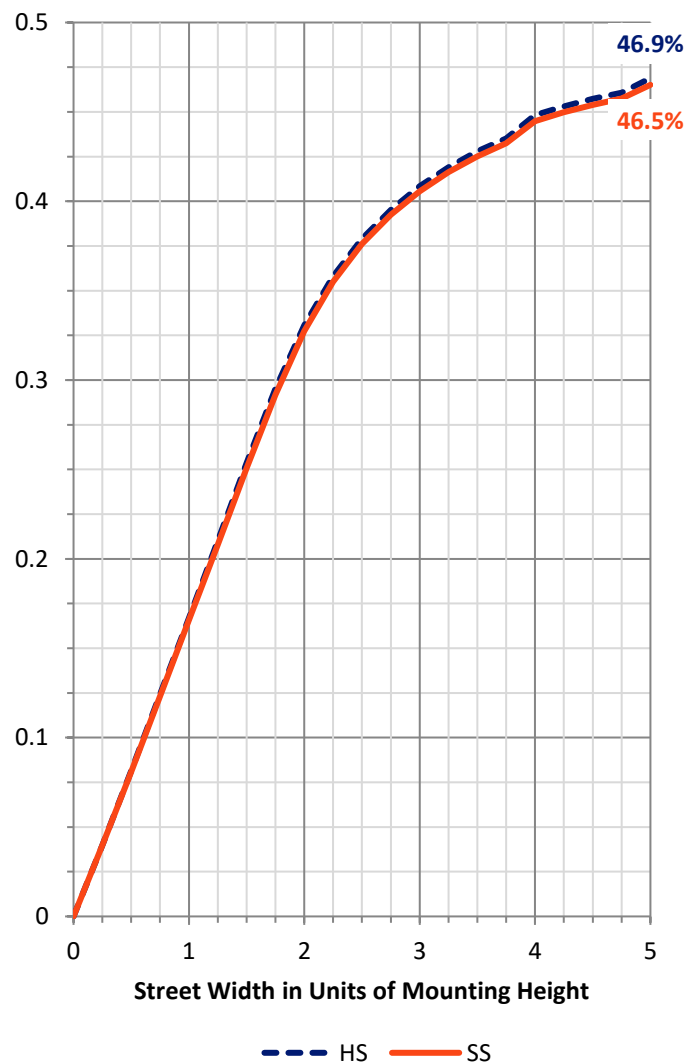
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4151.6   | 165.9  | 4317.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 4151.6   | 165.9  | 4317.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Total</b>       | Lumens    | 8303.1   | 331.8  | 8635.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.3   | 0.1       |
| 10°-20°   | 43.5   | 0.5       |
| 20°-30°   | 114.8  | 1.3       |
| 30°-40°   | 261.2  | 3.0       |
| 40°-50°   | 528.3  | 6.1       |
| 50°-60°   | 1563.9 | 18.1      |
| 60°-70°   | 2938.0 | 34.0      |
| 70°-80°   | 2183.9 | 25.3      |
| 80°-90°   | 659.3  | 7.6       |
| 90°-100°  | 213.9  | 2.5       |
| 100°-110° | 75.0   | 0.9       |
| 110°-120° | 29.0   | 0.3       |
| 120°-130° | 11.5   | 0.1       |
| 130°-140° | 2.3    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-90°    | 8303.1 | 96.2      |
| 0°-180°   | 8635.0 | 100.0     |

**Coefficient of Utilization**



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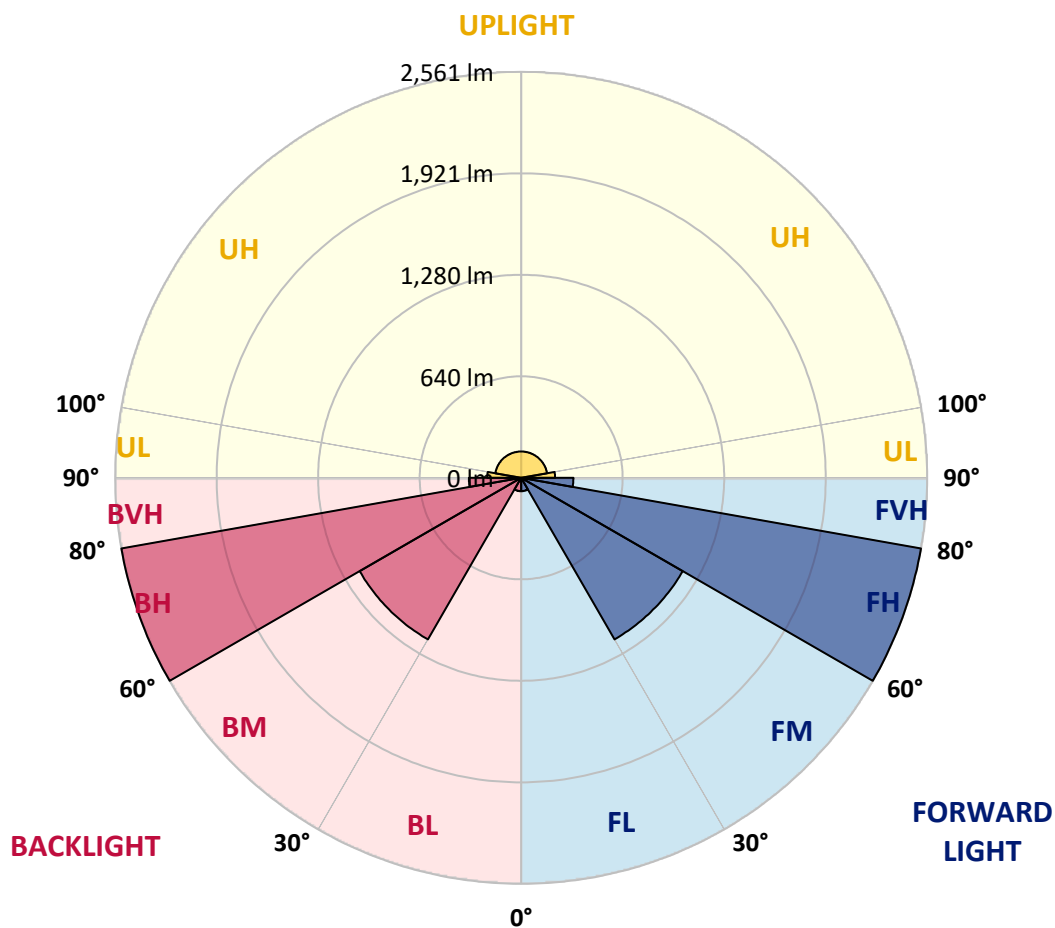
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 84.3   | 1.0       |                         |        |         |
| FM   | (30°-60°)   | 1176.7 | 13.6      |                         |        |         |
| FH   | (60°-80°)   | 2561.0 | 29.7      |                         |        | G2/5000 |
| FVH  | (80°-90°)   | 329.6  | 3.8       |                         |        | G3/500  |
| BL   | (0°-30°)    | 84.3   | 1.0       | B0/110                  |        |         |
| BM   | (30°-60°)   | 1176.7 | 13.6      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 2561.0 | 29.7      | B4/5000                 |        | G2/5000 |
| BVH  | (80°-90°)   | 329.6  | 3.8       |                         |        | G3/500  |
| UL   | (90°-100°)  | 213.9  | 2.5       |                         | U3/500 |         |
| UH   | (100°-180°) | 165.9  | 1.9       |                         | U3/500 |         |

**BUG Rating: B4-U3-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   | 95.0   |
| 2.5°   | 96.6   | 96.6   | 96.6   | 95.0   | 93.3   | 93.3   | 93.3   | 93.3   | 91.7   | 91.7   | 91.7   |
| 5°     | 101.5  | 101.5  | 99.9   | 98.2   | 98.2   | 96.6   | 98.2   | 96.6   | 96.6   | 96.6   | 98.2   |
| 7.5°   | 113.0  | 113.0  | 111.3  | 111.3  | 111.3  | 109.7  | 109.7  | 109.7  | 109.7  | 108.1  | 109.7  |
| 10°    | 126.1  | 126.1  | 126.1  | 126.1  | 126.1  | 124.4  | 124.4  | 122.8  | 122.8  | 122.8  | 122.8  |
| 12.5°  | 140.8  | 139.2  | 139.2  | 140.8  | 139.2  | 137.5  | 137.5  | 137.5  | 135.9  | 135.9  | 135.9  |
| 15°    | 153.9  | 153.9  | 152.3  | 152.3  | 152.3  | 150.6  | 150.6  | 149.0  | 149.0  | 147.4  | 147.4  |
| 17.5°  | 167.0  | 167.0  | 165.4  | 163.7  | 163.7  | 163.7  | 162.1  | 162.1  | 160.4  | 160.4  | 160.4  |
| 20°    | 183.4  | 181.7  | 180.1  | 178.5  | 176.8  | 176.8  | 176.8  | 176.8  | 175.2  | 173.5  | 173.5  |
| 22.5°  | 201.4  | 199.7  | 198.1  | 196.5  | 196.5  | 194.8  | 194.8  | 193.2  | 193.2  | 191.6  | 189.9  |
| 25°    | 239.0  | 239.0  | 232.5  | 230.9  | 230.9  | 232.5  | 230.9  | 229.2  | 225.9  | 221.0  | 221.0  |
| 27.5°  | 289.8  | 291.4  | 293.1  | 301.3  | 299.6  | 288.2  | 281.6  | 278.3  | 276.7  | 276.7  | 278.3  |
| 30°    | 347.1  | 348.7  | 353.6  | 361.8  | 356.9  | 342.2  | 325.8  | 319.3  | 324.2  | 330.7  | 332.4  |
| 32.5°  | 407.7  | 407.7  | 397.8  | 386.4  | 374.9  | 365.1  | 360.2  | 356.9  | 355.3  | 350.4  | 350.4  |
| 35°    | 455.2  | 447.0  | 415.9  | 378.2  | 366.7  | 373.3  | 392.9  | 399.5  | 374.9  | 352.0  | 348.7  |
| 37.5°  | 509.2  | 507.5  | 483.0  | 455.2  | 433.9  | 430.6  | 451.9  | 458.4  | 432.2  | 417.5  | 415.9  |
| 40°    | 566.5  | 569.8  | 574.7  | 563.2  | 530.5  | 520.6  | 509.2  | 501.0  | 501.0  | 502.6  | 499.4  |
| 42.5°  | 643.4  | 648.3  | 648.3  | 650.0  | 623.8  | 600.9  | 577.9  | 564.8  | 563.2  | 576.3  | 581.2  |
| 45°    | 746.6  | 746.6  | 735.1  | 712.2  | 700.7  | 684.4  | 669.6  | 656.5  | 650.0  | 651.6  | 656.5  |
| 47.5°  | 792.4  | 795.7  | 785.9  | 753.1  | 744.9  | 728.6  | 707.3  | 702.4  | 705.6  | 710.6  | 712.2  |
| 50°    | 952.9  | 944.7  | 877.6  | 808.8  | 784.2  | 800.6  | 831.7  | 839.9  | 808.8  | 777.7  | 769.5  |
| 52.5°  | 1234.5 | 1232.8 | 1180.4 | 1129.7 | 1095.3 | 1085.5 | 1128.1 | 1131.3 | 1077.3 | 1054.4 | 1051.1 |
| 55°    | 1722.4 | 1704.4 | 1743.7 | 1768.2 | 1696.2 | 1616.0 | 1586.5 | 1545.5 | 1548.8 | 1594.7 | 1596.3 |
| 57.5°  | 2414.9 | 2424.7 | 2468.9 | 2405.1 | 2295.4 | 2236.5 | 2195.5 | 2118.6 | 2120.2 | 2161.1 | 2164.4 |
| 60°    | 3294.1 | 3292.5 | 3151.7 | 2906.1 | 2737.5 | 2748.9 | 2861.9 | 2878.3 | 2703.1 | 2590.1 | 2577.0 |
| 62.5°  | 3682.1 | 3664.1 | 3547.9 | 3249.9 | 2965.0 | 2960.1 | 3164.8 | 3191.0 | 3069.8 | 2919.2 | 2889.7 |
| 65°    | 3389.1 | 3374.3 | 3423.5 | 3321.9 | 2947.0 | 2850.4 | 2912.6 | 2906.1 | 2983.0 | 3051.8 | 3060.0 |
| 67.5°  | 3017.4 | 3020.7 | 3138.6 | 3107.5 | 2847.2 | 2683.4 | 2604.8 | 2595.0 | 2739.1 | 2899.5 | 2920.8 |
| 70°    | 2768.6 | 2768.6 | 2852.1 | 2726.0 | 2601.6 | 2495.1 | 2413.3 | 2362.5 | 2455.9 | 2482.0 | 2480.4 |
| 72.5°  | 2640.9 | 2629.4 | 2570.5 | 2449.3 | 2354.3 | 2261.0 | 2285.6 | 2247.9 | 2203.7 | 2135.0 | 2128.4 |
| 75°    | 2413.3 | 2400.2 | 2318.3 | 2261.0 | 2192.3 | 2076.0 | 2097.3 | 2059.6 | 1986.0 | 1923.8 | 1913.9 |
| 77.5°  | 1994.2 | 1994.2 | 1941.8 | 1899.2 | 1879.5 | 1779.7 | 1769.9 | 1751.8 | 1678.2 | 1643.8 | 1630.7 |
| 80°    | 1427.7 | 1424.4 | 1403.1 | 1388.4 | 1412.9 | 1354.0 | 1327.8 | 1327.8 | 1298.3 | 1267.2 | 1252.5 |
| 82.5°  | 849.7  | 838.3  | 838.3  | 843.2  | 828.4  | 790.8  | 797.3  | 835.0  | 831.7  | 813.7  | 800.6  |
| 85°    | 502.6  | 496.1  | 491.2  | 484.6  | 471.5  | 445.3  | 445.3  | 448.6  | 451.9  | 453.5  | 447.0  |
| 87.5°  | 335.6  | 334.0  | 334.0  | 334.0  | 319.3  | 301.3  | 309.4  | 314.3  | 311.1  | 309.4  | 307.8  |
| 90°    | 293.1  | 294.7  | 293.1  | 286.5  | 273.4  | 257.0  | 260.3  | 266.9  | 263.6  | 263.6  | 262.0  |
| 92.5°  | 263.6  | 263.6  | 260.3  | 253.8  | 240.7  | 225.9  | 227.6  | 230.9  | 229.2  | 227.6  | 225.9  |
| 95°    | 216.1  | 216.1  | 212.8  | 207.9  | 196.5  | 183.4  | 185.0  | 188.3  | 185.0  | 185.0  | 183.4  |
| 97.5°  | 168.6  | 168.6  | 167.0  | 163.7  | 153.9  | 144.1  | 145.7  | 147.4  | 145.7  | 145.7  | 144.1  |
| 100°   | 127.7  | 127.7  | 126.1  | 121.2  | 116.2  | 108.1  | 109.7  | 113.0  | 111.3  | 111.3  | 109.7  |
| 102.5° | 95.0   | 95.0   | 93.3   | 91.7   | 85.1   | 80.2   | 81.9   | 81.9   | 81.9   | 80.2   | 80.2   |
| 105°   | 73.7   | 73.7   | 73.7   | 70.4   | 67.1   | 62.2   | 62.2   | 62.2   | 62.2   | 60.6   | 60.6   |
| 107.5° | 58.9   | 57.3   | 57.3   | 55.7   | 52.4   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   | 49.1   |
| 110°   | 47.5   | 45.8   | 44.2   | 44.2   | 40.9   | 39.3   | 37.7   | 39.3   | 39.3   | 39.3   | 39.3   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 40.9 | 39.3 | 36.0 | 36.0 | 34.4 | 31.1 | 31.1 | 31.1 | 34.4 | 32.7 | 32.7 |
| 115°   | 36.0 | 34.4 | 29.5 | 29.5 | 27.8 | 26.2 | 26.2 | 26.2 | 29.5 | 26.2 | 26.2 |
| 117.5° | 31.1 | 29.5 | 24.6 | 24.6 | 22.9 | 21.3 | 21.3 | 21.3 | 24.6 | 21.3 | 21.3 |
| 120°   | 22.9 | 22.9 | 19.6 | 19.6 | 19.6 | 18.0 | 18.0 | 18.0 | 19.6 | 18.0 | 18.0 |
| 122.5° | 18.0 | 18.0 | 16.4 | 16.4 | 16.4 | 14.7 | 14.7 | 14.7 | 14.7 | 13.1 | 13.1 |
| 125°   | 18.0 | 21.3 | 13.1 | 13.1 | 11.5 | 11.5 | 11.5 | 9.8  | 11.5 | 9.8  | 9.8  |
| 127.5° | 19.6 | 18.0 | 9.8  | 9.8  | 9.8  | 8.2  | 8.2  | 8.2  | 8.2  | 8.2  | 8.2  |
| 130°   | 6.5  | 9.8  | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  | 4.9  | 4.9  | 4.9  |
| 132.5° | 4.9  | 4.9  | 4.9  | 4.9  | 4.9  | 4.9  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 135°   | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 137.5° | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 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  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 172.5° | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 177.5° | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 180°   | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |

(END OF REPORT)