

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: McGRAW-EDISON

Report Number: P588587

Luminaire Tested: **GAT-CA6-LED-120-722-U-33-5-6-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GAT-CA6-LED-120-722-U-33-5-6-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4343 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 59.8  
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: 24 FT

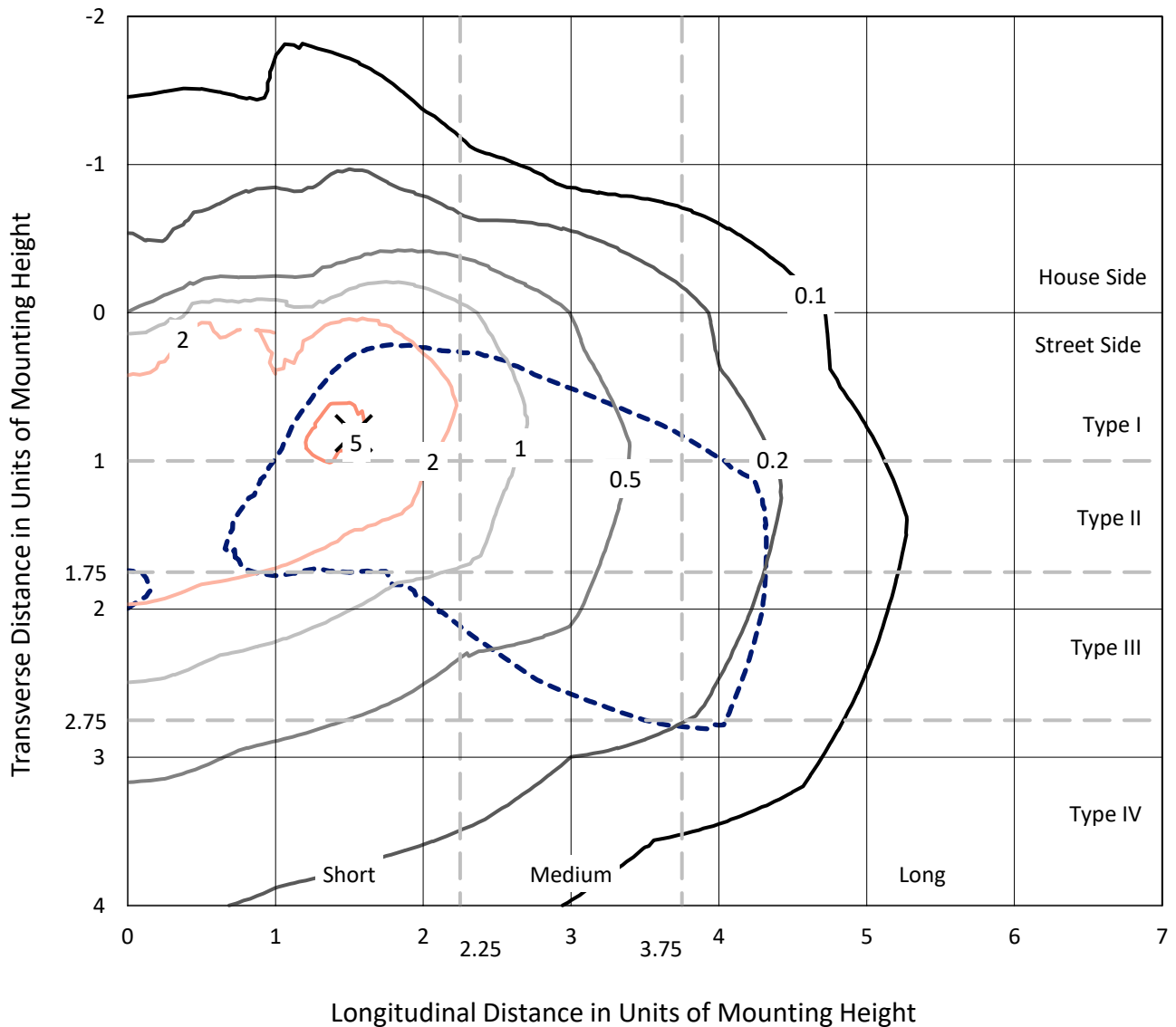


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
Type III - Short - Non-Cutoff

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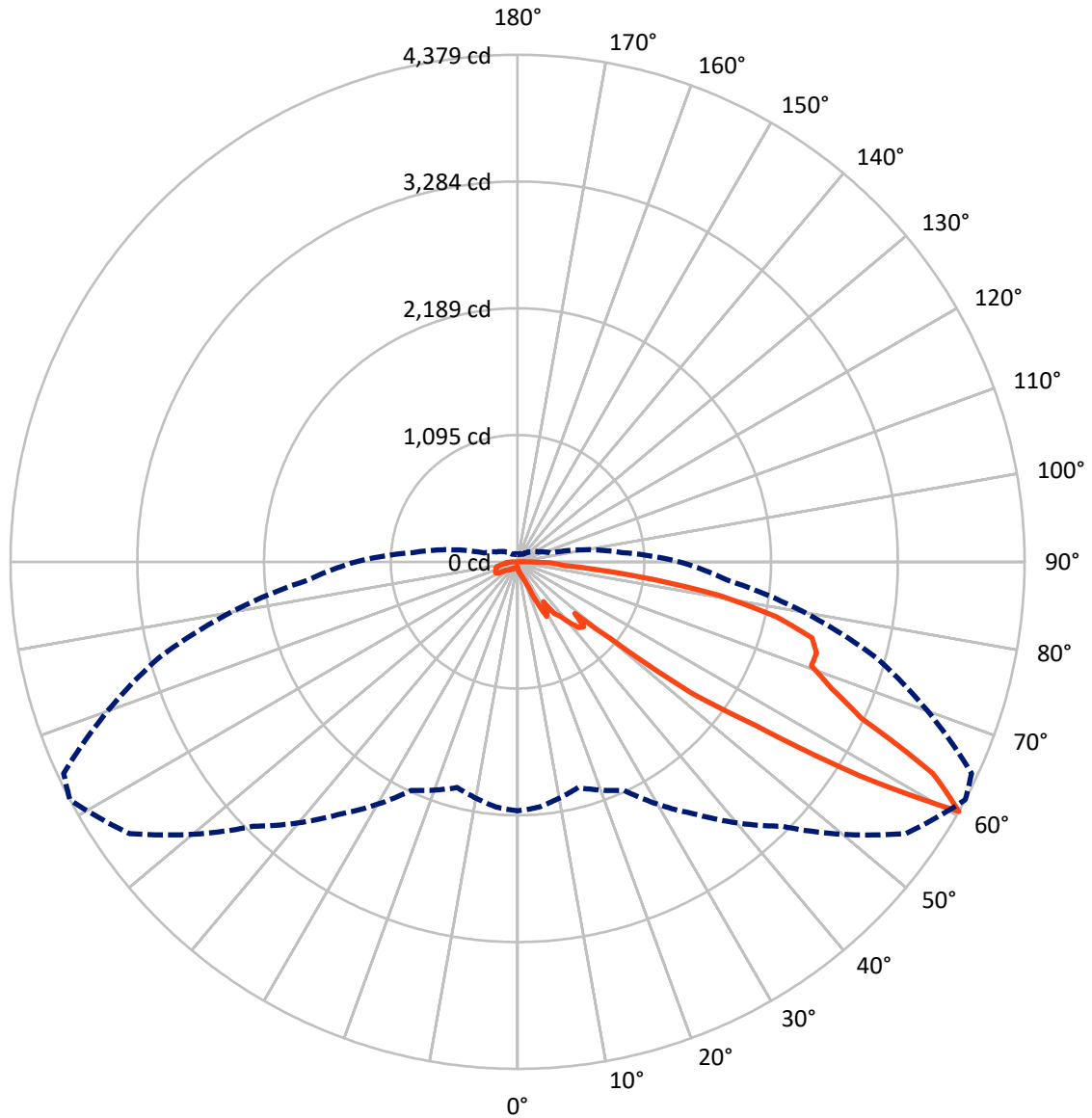
Scaled Data Report



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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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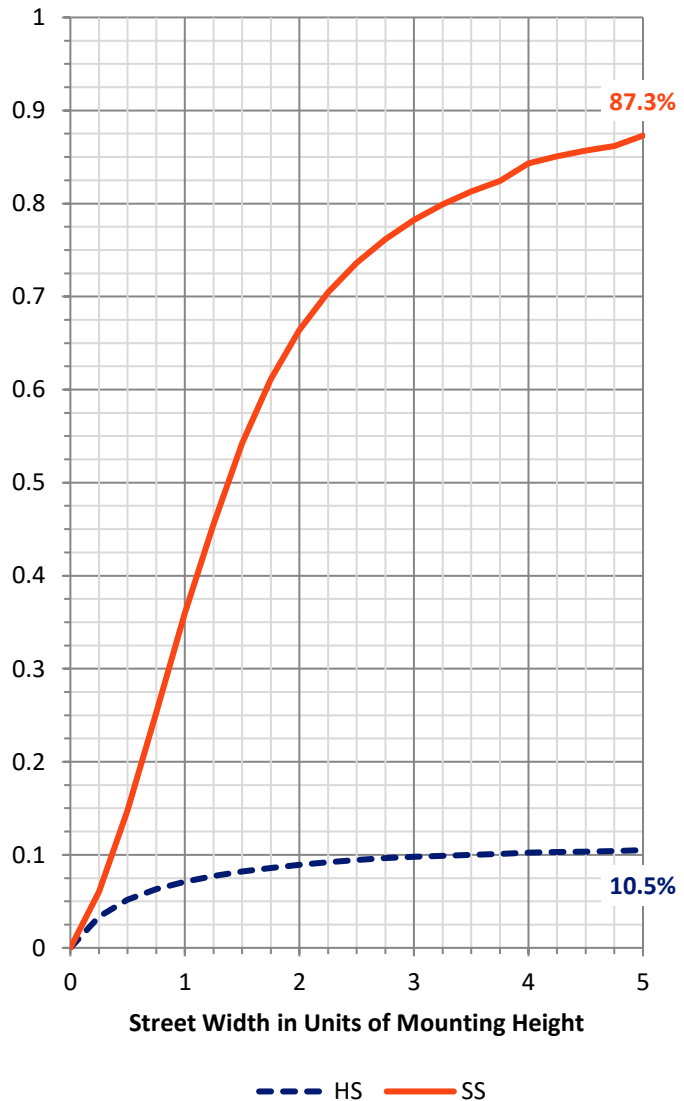
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 474.1    | 0.0    | 474.1  |
|                    | % Fixture | 10.9     | 0.0    | 10.9   |
| <b>Street Side</b> | Lumens    | 3868.9   | 0.0    | 3868.9 |
|                    | % Fixture | 89.1     | 0.0    | 89.1   |
| <b>Total</b>       | Lumens    | 4343.0   | 0.0    | 4343.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.8    | 0.1       |
| 10°-20°   | 24.7   | 0.6       |
| 20°-30°   | 92.1   | 2.1       |
| 30°-40°   | 182.0  | 4.2       |
| 40°-50°   | 314.9  | 7.3       |
| 50°-60°   | 932.5  | 21.5      |
| 60°-70°   | 1377.6 | 31.7      |
| 70°-80°   | 1105.0 | 25.4      |
| 80°-90°   | 308.3  | 7.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 4343.0 | 100.0     |
| 0°-180°   | 4343.0 | 100.0     |

**Coefficient of Utilization**



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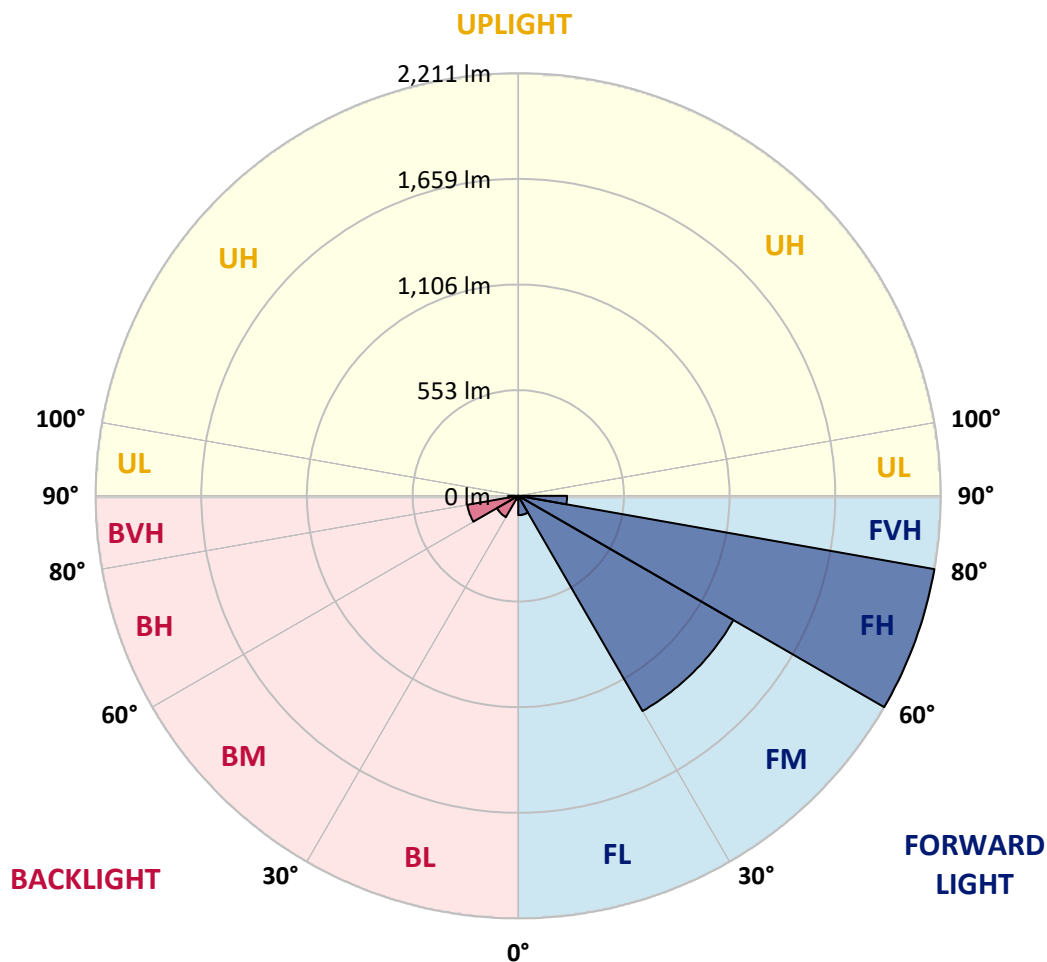
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 101.5  | 2.3       |                         |      |         |
| FM   | (30°-60°)   | 1300.5 | 29.9      |                         |      |         |
| FH   | (60°-80°)   | 2211.4 | 50.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 255.5  | 5.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 21.2   | 0.5       | B0/110                  |      |         |
| BM   | (30°-60°)   | 128.9  | 3.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 271.2  | 6.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 52.9   | 1.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 62°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   |
| 2.5°  | 72.7   | 71.6   | 69.2   | 66.9   | 65.7   | 64.5   | 63.4   | 62.2   | 61.0   | 57.5   | 55.1   |
| 5°    | 89.2   | 88.0   | 85.7   | 82.1   | 78.6   | 76.3   | 75.1   | 73.9   | 71.6   | 68.1   | 62.2   |
| 7.5°  | 100.9  | 100.9  | 100.9  | 98.6   | 95.0   | 90.3   | 86.8   | 84.5   | 82.1   | 77.4   | 71.6   |
| 10°   | 115.0  | 113.8  | 113.8  | 110.3  | 106.8  | 103.2  | 100.9  | 98.6   | 96.2   | 89.2   | 79.8   |
| 12.5° | 125.5  | 124.4  | 123.2  | 119.7  | 118.5  | 115.0  | 113.8  | 109.1  | 106.8  | 98.6   | 86.8   |
| 15°   | 137.3  | 136.1  | 133.8  | 132.6  | 129.1  | 126.7  | 127.9  | 126.7  | 124.4  | 113.8  | 96.2   |
| 17.5° | 150.2  | 149.0  | 147.8  | 147.8  | 147.8  | 145.5  | 144.3  | 142.0  | 139.6  | 123.2  | 102.1  |
| 20°   | 176.0  | 172.5  | 169.0  | 166.6  | 171.3  | 172.5  | 172.5  | 170.1  | 170.1  | 142.0  | 117.3  |
| 22.5° | 224.1  | 220.6  | 218.2  | 200.6  | 207.7  | 240.5  | 251.1  | 239.4  | 241.7  | 186.6  | 129.1  |
| 25°   | 352.0  | 340.3  | 334.4  | 336.7  | 356.7  | 393.1  | 398.9  | 384.8  | 391.9  | 289.8  | 206.5  |
| 27.5° | 411.8  | 414.2  | 459.9  | 506.9  | 512.7  | 531.5  | 563.2  | 533.8  | 518.6  | 370.8  | 258.1  |
| 30°   | 420.0  | 424.7  | 509.2  | 546.8  | 532.7  | 523.3  | 593.7  | 508.0  | 482.2  | 350.8  | 283.9  |
| 32.5° | 387.2  | 408.3  | 498.7  | 513.9  | 481.1  | 429.4  | 481.1  | 409.5  | 401.3  | 305.1  | 269.9  |
| 35°   | 449.4  | 459.9  | 501.0  | 442.3  | 431.8  | 495.1  | 627.7  | 550.3  | 531.5  | 376.6  | 259.3  |
| 37.5° | 544.4  | 540.9  | 619.5  | 665.3  | 648.8  | 584.3  | 653.5  | 594.9  | 579.6  | 474.0  | 370.8  |
| 40°   | 665.3  | 657.0  | 752.1  | 773.2  | 757.9  | 754.4  | 845.9  | 688.7  | 659.4  | 529.2  | 440.0  |
| 42.5° | 699.3  | 701.6  | 762.6  | 814.3  | 802.5  | 801.4  | 938.6  | 776.7  | 732.1  | 535.0  | 483.4  |
| 45°   | 714.5  | 727.4  | 844.8  | 813.1  | 824.8  | 803.7  | 925.7  | 800.2  | 762.6  | 594.9  | 569.0  |
| 47.5° | 620.7  | 627.7  | 789.6  | 790.8  | 641.8  | 646.5  | 755.6  | 666.4  | 639.4  | 465.8  | 490.4  |
| 50°   | 801.4  | 800.2  | 858.9  | 811.9  | 743.9  | 861.2  | 1081.8 | 1047.8 | 1027.8 | 699.3  | 544.4  |
| 52.5° | 1159.2 | 1146.3 | 1235.5 | 1309.4 | 1295.3 | 1566.3 | 1894.9 | 1880.8 | 1809.2 | 1371.6 | 860.0  |
| 55°   | 1525.3 | 1519.4 | 1618.0 | 1878.4 | 2004.0 | 2258.6 | 2577.7 | 2488.6 | 2461.6 | 2020.4 | 1351.6 |
| 57.5° | 1826.8 | 1828.0 | 1859.7 | 2083.8 | 2339.5 | 2832.3 | 3385.0 | 3489.4 | 3434.2 | 2608.2 | 1642.6 |
| 60°   | 2151.8 | 2126.0 | 2018.1 | 2177.6 | 2656.3 | 3228.9 | 4091.3 | 4378.7 | 4325.9 | 3209.0 | 1818.6 |
| 62.5° | 2174.1 | 2148.3 | 1964.1 | 2126.0 | 2492.1 | 3018.9 | 3793.3 | 4026.7 | 4087.8 | 3372.0 | 1871.4 |
| 65°   | 2075.6 | 2043.9 | 1816.3 | 1937.1 | 2086.1 | 2405.3 | 3354.4 | 3261.8 | 3349.8 | 3321.6 | 1870.2 |
| 67.5° | 1966.4 | 1940.6 | 1727.1 | 1828.0 | 1943.0 | 2156.5 | 3157.3 | 2926.2 | 3016.5 | 3124.5 | 1958.2 |
| 70°   | 1856.2 | 1819.8 | 1647.3 | 1756.4 | 1898.4 | 2042.7 | 2907.4 | 2690.4 | 2666.9 | 2647.0 | 1870.2 |
| 72.5° | 1837.4 | 1809.2 | 1626.2 | 1702.5 | 1863.2 | 1970.0 | 2866.4 | 2699.8 | 2676.3 | 2553.1 | 1710.7 |
| 75°   | 1694.2 | 1691.9 | 1515.9 | 1587.5 | 1781.1 | 1847.9 | 2752.5 | 2624.7 | 2575.4 | 2417.0 | 1505.3 |
| 77.5° | 1368.1 | 1350.5 | 1222.6 | 1297.7 | 1472.5 | 1565.2 | 2368.9 | 2285.6 | 2257.4 | 2109.6 | 1244.9 |
| 80°   | 919.9  | 904.6  | 849.5  | 892.9  | 1056.0 | 1136.9 | 1777.5 | 1770.5 | 1749.4 | 1652.0 | 919.9  |
| 82.5° | 523.3  | 549.1  | 497.5  | 517.4  | 573.7  | 673.5  | 1105.2 | 1057.1 | 1041.9 | 972.7  | 522.1  |
| 85°   | 294.5  | 288.6  | 268.7  | 266.3  | 310.9  | 306.2  | 477.5  | 409.5  | 425.9  | 368.4  | 248.7  |
| 87.5° | 212.4  | 217.1  | 195.9  | 195.9  | 217.1  | 214.7  | 300.4  | 282.8  | 280.4  | 262.8  | 178.3  |
| 90°   | 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°    | 51.6   | 51.6   | 51.6  | 51.6  | 51.6  | 51.6  | 51.6  | 51.6  | 51.6  | 51.6  | 51.6 |
| 2.5°  | 54.0   | 52.8   | 49.3  | 45.8  | 39.9  | 34.0  | 30.5  | 32.9  | 34.0  | 35.2  | 35.2 |
| 5°    | 58.7   | 56.3   | 49.3  | 42.2  | 35.2  | 29.3  | 24.6  | 22.3  | 22.3  | 23.5  | 23.5 |
| 7.5°  | 69.2   | 65.7   | 56.3  | 48.1  | 38.7  | 32.9  | 27.0  | 23.5  | 21.1  | 21.1  | 21.1 |
| 10°   | 75.1   | 71.6   | 61.0  | 51.6  | 42.2  | 35.2  | 29.3  | 24.6  | 22.3  | 21.1  | 21.1 |
| 12.5° | 81.0   | 76.3   | 65.7  | 55.1  | 44.6  | 36.4  | 30.5  | 25.8  | 24.6  | 24.6  | 24.6 |
| 15°   | 88.0   | 81.0   | 68.1  | 56.3  | 45.8  | 37.5  | 30.5  | 27.0  | 25.8  | 25.8  | 25.8 |
| 17.5° | 95.0   | 88.0   | 72.7  | 57.5  | 46.9  | 37.5  | 31.7  | 27.0  | 25.8  | 27.0  | 27.0 |
| 20°   | 106.8  | 93.9   | 72.7  | 58.7  | 46.9  | 37.5  | 31.7  | 27.0  | 27.0  | 27.0  | 27.0 |
| 22.5° | 112.6  | 102.1  | 77.4  | 59.8  | 48.1  | 38.7  | 31.7  | 27.0  | 27.0  | 27.0  | 27.0 |
| 25°   | 173.6  | 129.1  | 81.0  | 62.2  | 49.3  | 39.9  | 31.7  | 28.2  | 27.0  | 28.2  | 28.2 |
| 27.5° | 218.2  | 181.9  | 92.7  | 65.7  | 50.5  | 41.1  | 32.9  | 28.2  | 28.2  | 29.3  | 29.3 |
| 30°   | 242.9  | 207.7  | 100.9 | 71.6  | 54.0  | 42.2  | 34.0  | 29.3  | 29.3  | 29.3  | 29.3 |
| 32.5° | 231.1  | 187.7  | 102.1 | 78.6  | 59.8  | 44.6  | 35.2  | 30.5  | 30.5  | 30.5  | 30.5 |
| 35°   | 200.6  | 154.9  | 99.7  | 79.8  | 63.4  | 49.3  | 37.5  | 31.7  | 31.7  | 30.5  | 30.5 |
| 37.5° | 280.4  | 194.8  | 103.2 | 79.8  | 65.7  | 52.8  | 41.1  | 34.0  | 32.9  | 31.7  | 31.7 |
| 40°   | 332.0  | 217.1  | 113.8 | 85.7  | 65.7  | 54.0  | 43.4  | 37.5  | 35.2  | 34.0  | 32.9 |
| 42.5° | 368.4  | 238.2  | 122.0 | 93.9  | 72.7  | 56.3  | 44.6  | 41.1  | 37.5  | 35.2  | 35.2 |
| 45°   | 421.2  | 252.3  | 132.6 | 103.2 | 79.8  | 62.2  | 48.1  | 42.2  | 41.1  | 38.7  | 37.5 |
| 47.5° | 384.8  | 257.0  | 143.1 | 113.8 | 88.0  | 68.1  | 52.8  | 45.8  | 44.6  | 42.2  | 41.1 |
| 50°   | 395.4  | 249.9  | 146.7 | 120.8 | 96.2  | 72.7  | 57.5  | 50.5  | 48.1  | 45.8  | 45.8 |
| 52.5° | 539.7  | 330.9  | 160.7 | 124.4 | 99.7  | 79.8  | 62.2  | 55.1  | 52.8  | 50.5  | 50.5 |
| 55°   | 881.1  | 506.9  | 198.3 | 137.3 | 103.2 | 82.1  | 66.9  | 61.0  | 57.5  | 55.1  | 54.0 |
| 57.5° | 1151.0 | 715.7  | 251.1 | 167.8 | 123.2 | 86.8  | 69.2  | 66.9  | 64.5  | 59.8  | 58.7 |
| 60°   | 1396.2 | 907.0  | 295.7 | 201.8 | 154.9 | 112.6 | 79.8  | 73.9  | 72.7  | 65.7  | 63.4 |
| 62.5° | 1595.7 | 1065.4 | 332.0 | 220.6 | 177.2 | 145.5 | 109.1 | 91.5  | 82.1  | 73.9  | 71.6 |
| 65°   | 1668.4 | 1118.1 | 346.1 | 224.1 | 183.0 | 161.9 | 137.3 | 124.4 | 97.4  | 84.5  | 82.1 |
| 67.5° | 1696.6 | 1106.4 | 353.2 | 217.1 | 178.3 | 161.9 | 144.3 | 145.5 | 118.5 | 93.9  | 90.3 |
| 70°   | 1641.4 | 1060.7 | 349.6 | 210.0 | 171.3 | 157.2 | 140.8 | 136.1 | 123.2 | 100.9 | 96.2 |
| 72.5° | 1517.1 | 1018.4 | 348.5 | 208.8 | 169.0 | 151.4 | 130.2 | 116.2 | 105.6 | 99.7  | 97.4 |
| 75°   | 1392.7 | 990.3  | 343.8 | 207.7 | 165.4 | 143.1 | 118.5 | 100.9 | 86.8  | 88.0  | 90.3 |
| 77.5° | 1182.7 | 874.1  | 318.0 | 192.4 | 149.0 | 124.4 | 102.1 | 89.2  | 78.6  | 77.4  | 77.4 |
| 80°   | 894.1  | 648.8  | 260.5 | 160.7 | 122.0 | 100.9 | 84.5  | 79.8  | 73.9  | 71.6  | 70.4 |
| 82.5° | 495.1  | 341.4  | 167.8 | 119.7 | 96.2  | 78.6  | 71.6  | 71.6  | 68.1  | 64.5  | 64.5 |
| 85°   | 226.4  | 191.2  | 124.4 | 99.7  | 82.1  | 68.1  | 62.2  | 62.2  | 58.7  | 55.1  | 54.0 |
| 87.5° | 176.0  | 151.4  | 105.6 | 92.7  | 79.8  | 66.9  | 59.8  | 59.8  | 56.3  | 54.0  | 54.0 |
| 90°   | 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)