

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: P588353

Luminaire Tested: **GAT-CA6-LED-100-727-U-55-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588353  
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: McGRAW-EDISON  
Catalog Number: GAT-CA6-LED-100-727-U-55-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9000 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

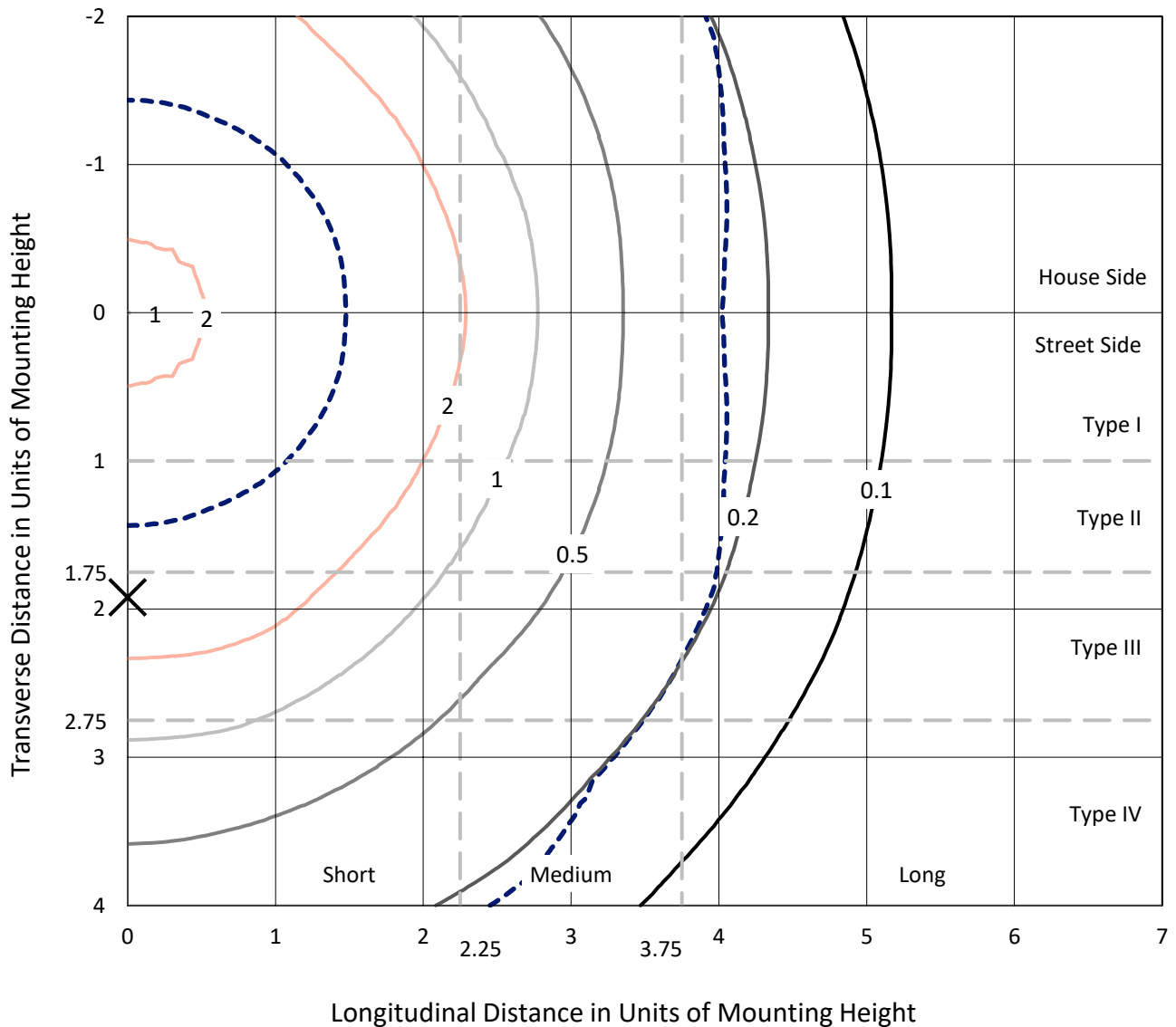
Input Watts (W): 103.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

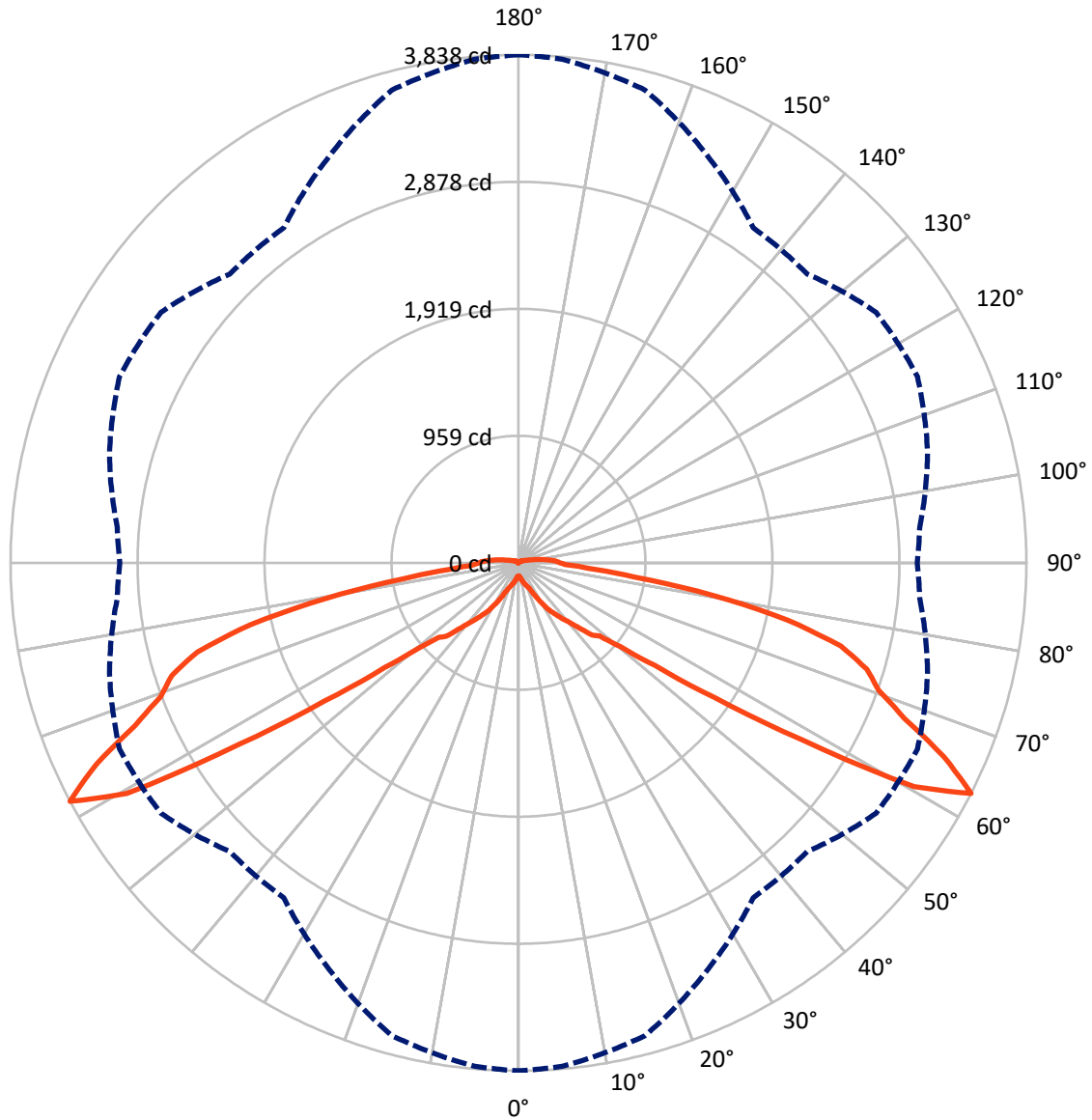
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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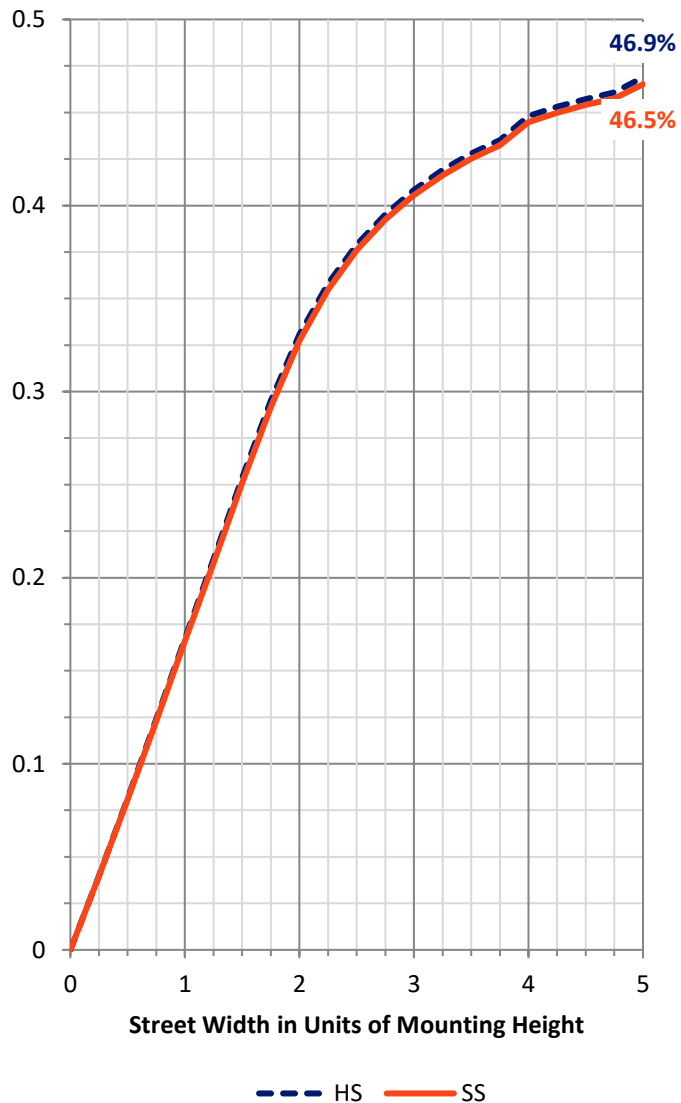
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4327.1   | 172.9  | 4500.0 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 4327.1   | 172.9  | 4500.0 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Total</b>       | Lumens    | 8654.1   | 345.9  | 9000.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.7   | 0.1       |
| 10°-20°   | 45.3   | 0.5       |
| 20°-30°   | 119.6  | 1.3       |
| 30°-40°   | 272.2  | 3.0       |
| 40°-50°   | 550.6  | 6.1       |
| 50°-60°   | 1630.0 | 18.1      |
| 60°-70°   | 3062.2 | 34.0      |
| 70°-80°   | 2276.2 | 25.3      |
| 80°-90°   | 687.1  | 7.6       |
| 90°-100°  | 223.0  | 2.5       |
| 100°-110° | 78.1   | 0.9       |
| 110°-120° | 30.2   | 0.3       |
| 120°-130° | 12.0   | 0.1       |
| 130°-140° | 2.4    | 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°    | 8654.1 | 96.2      |
| 0°-180°   | 9000.0 | 100.0     |

**Coefficient of Utilization**



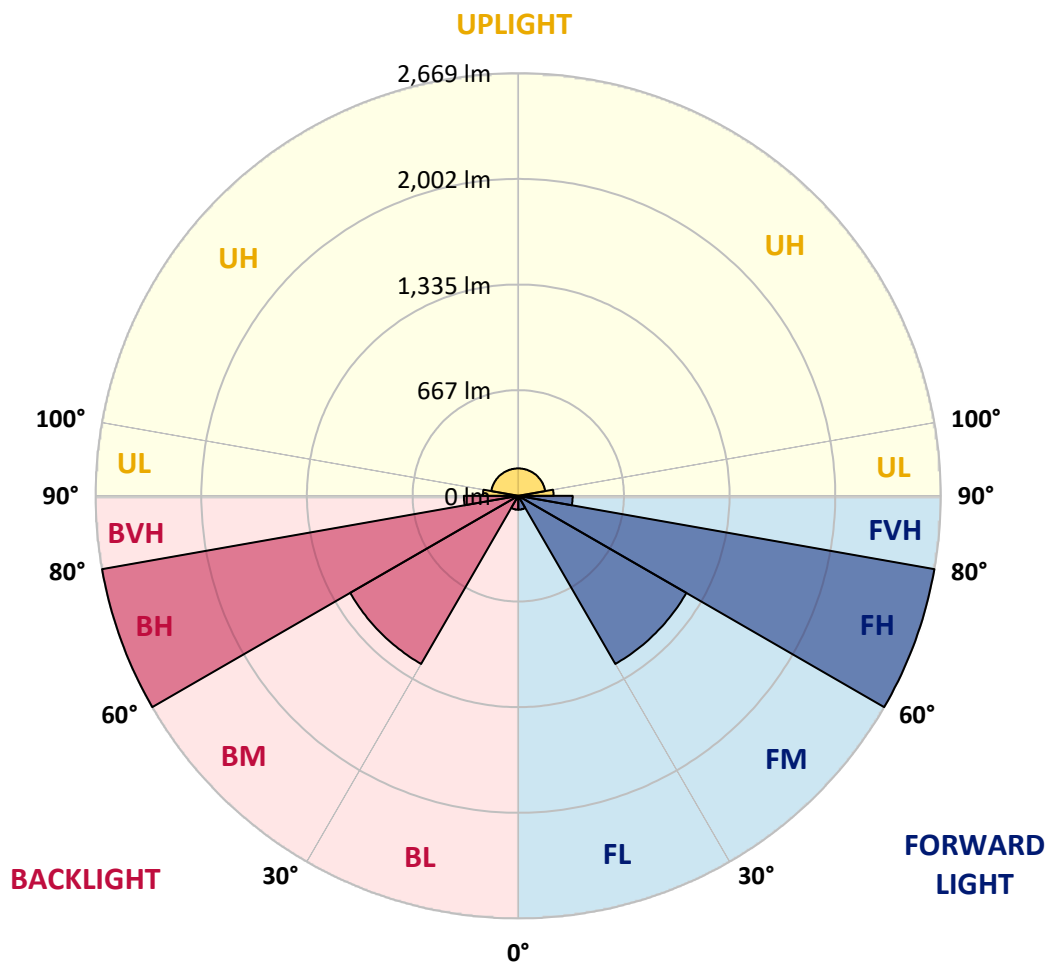
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 87.9   | 1.0       |                         |        |         |
| FM (30°-60°)   | 1226.4 | 13.6      |                         |        |         |
| FH (60°-80°)   | 2669.2 | 29.7      |                         |        | G2/5000 |
| FVH (80°-90°)  | 343.6  | 3.8       |                         |        | G3/500  |
| BL (0°-30°)    | 87.9   | 1.0       | B0/110                  |        |         |
| BM (30°-60°)   | 1226.4 | 13.6      | B2/2500                 |        |         |
| BH (60°-80°)   | 2669.2 | 29.7      | B4/5000                 |        | G2/5000 |
| BVH (80°-90°)  | 343.6  | 3.8       |                         |        | G3/500  |
| UL (90°-100°)  | 223.0  | 2.5       |                         | U3/500 |         |
| UH (100°-180°) | 172.9  | 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°     | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   | 99.0   |
| 2.5°   | 100.7  | 100.7  | 100.7  | 99.0   | 97.3   | 97.3   | 97.3   | 97.3   | 95.6   | 95.6   | 95.6   |
| 5°     | 105.8  | 105.8  | 104.1  | 102.4  | 102.4  | 100.7  | 102.4  | 100.7  | 100.7  | 100.7  | 102.4  |
| 7.5°   | 117.7  | 117.7  | 116.0  | 116.0  | 116.0  | 114.3  | 114.3  | 114.3  | 114.3  | 112.6  | 114.3  |
| 10°    | 131.4  | 131.4  | 131.4  | 131.4  | 131.4  | 129.7  | 129.7  | 128.0  | 128.0  | 128.0  | 128.0  |
| 12.5°  | 146.8  | 145.0  | 145.0  | 146.8  | 145.0  | 143.3  | 143.3  | 143.3  | 141.6  | 141.6  | 141.6  |
| 15°    | 160.4  | 160.4  | 158.7  | 158.7  | 158.7  | 157.0  | 157.0  | 155.3  | 155.3  | 153.6  | 153.6  |
| 17.5°  | 174.1  | 174.1  | 172.4  | 170.6  | 170.6  | 170.6  | 168.9  | 168.9  | 167.2  | 167.2  | 167.2  |
| 20°    | 191.1  | 189.4  | 187.7  | 186.0  | 184.3  | 184.3  | 184.3  | 184.3  | 182.6  | 180.9  | 180.9  |
| 22.5°  | 209.9  | 208.2  | 206.5  | 204.8  | 204.8  | 203.1  | 203.1  | 201.4  | 201.4  | 199.7  | 197.9  |
| 25°    | 249.1  | 249.1  | 242.3  | 240.6  | 240.6  | 242.3  | 240.6  | 238.9  | 235.5  | 230.4  | 230.4  |
| 27.5°  | 302.0  | 303.7  | 305.5  | 314.0  | 312.3  | 300.3  | 293.5  | 290.1  | 288.4  | 288.4  | 290.1  |
| 30°    | 361.8  | 363.5  | 368.6  | 377.1  | 372.0  | 356.6  | 339.6  | 332.8  | 337.9  | 344.7  | 346.4  |
| 32.5°  | 424.9  | 424.9  | 414.7  | 402.7  | 390.8  | 380.5  | 375.4  | 372.0  | 370.3  | 365.2  | 365.2  |
| 35°    | 474.4  | 465.9  | 433.4  | 394.2  | 382.2  | 389.1  | 409.5  | 416.4  | 390.8  | 366.9  | 363.5  |
| 37.5°  | 530.7  | 529.0  | 503.4  | 474.4  | 452.2  | 448.8  | 471.0  | 477.8  | 450.5  | 435.1  | 433.4  |
| 40°    | 590.4  | 593.8  | 599.0  | 587.0  | 552.9  | 542.6  | 530.7  | 522.2  | 522.2  | 523.9  | 520.5  |
| 42.5°  | 670.6  | 675.8  | 675.8  | 677.5  | 650.2  | 626.3  | 602.4  | 588.7  | 587.0  | 600.7  | 605.8  |
| 45°    | 778.1  | 778.1  | 766.2  | 742.3  | 730.4  | 713.3  | 697.9  | 684.3  | 677.5  | 679.2  | 684.3  |
| 47.5°  | 825.9  | 829.3  | 819.1  | 785.0  | 776.4  | 759.4  | 737.2  | 732.1  | 735.5  | 740.6  | 742.3  |
| 50°    | 993.1  | 984.6  | 914.7  | 843.0  | 817.4  | 834.4  | 866.9  | 875.4  | 843.0  | 810.6  | 802.0  |
| 52.5°  | 1286.7 | 1284.9 | 1230.3 | 1177.4 | 1141.6 | 1131.4 | 1175.7 | 1179.1 | 1122.8 | 1098.9 | 1095.5 |
| 55°    | 1795.2 | 1776.4 | 1817.4 | 1843.0 | 1767.9 | 1684.3 | 1653.5 | 1610.9 | 1614.3 | 1662.1 | 1663.8 |
| 57.5°  | 2517.0 | 2527.2 | 2573.3 | 2506.8 | 2392.4 | 2331.0 | 2288.3 | 2208.1 | 2209.8 | 2252.5 | 2255.9 |
| 60°    | 3433.4 | 3431.7 | 3284.9 | 3028.9 | 2853.2 | 2865.1 | 2982.9 | 2999.9 | 2817.3 | 2699.6 | 2685.9 |
| 62.5°  | 3837.8 | 3819.0 | 3697.9 | 3387.3 | 3090.4 | 3085.2 | 3298.5 | 3325.9 | 3199.6 | 3042.6 | 3011.9 |
| 65°    | 3532.3 | 3517.0 | 3568.2 | 3462.4 | 3071.6 | 2970.9 | 3035.8 | 3028.9 | 3109.1 | 3180.8 | 3189.3 |
| 67.5°  | 3145.0 | 3148.4 | 3271.2 | 3238.8 | 2967.5 | 2796.9 | 2714.9 | 2704.7 | 2854.9 | 3022.1 | 3044.3 |
| 70°    | 2885.6 | 2885.6 | 2972.6 | 2841.2 | 2711.5 | 2600.6 | 2515.3 | 2462.4 | 2559.7 | 2587.0 | 2585.3 |
| 72.5°  | 2752.5 | 2740.5 | 2679.1 | 2552.8 | 2453.9 | 2356.6 | 2382.2 | 2342.9 | 2296.9 | 2225.2 | 2218.4 |
| 75°    | 2515.3 | 2501.6 | 2416.3 | 2356.6 | 2284.9 | 2163.8 | 2185.9 | 2146.7 | 2069.9 | 2005.1 | 1994.8 |
| 77.5°  | 2078.4 | 2078.4 | 2023.8 | 1979.5 | 1959.0 | 1854.9 | 1844.7 | 1825.9 | 1749.1 | 1713.3 | 1699.6 |
| 80°    | 1488.0 | 1484.6 | 1462.4 | 1447.1 | 1472.7 | 1411.2 | 1383.9 | 1383.9 | 1353.2 | 1320.8 | 1305.4 |
| 82.5°  | 885.6  | 873.7  | 873.7  | 878.8  | 863.5  | 824.2  | 831.0  | 870.3  | 866.9  | 848.1  | 834.4  |
| 85°    | 523.9  | 517.1  | 511.9  | 505.1  | 491.5  | 464.2  | 464.2  | 467.6  | 471.0  | 472.7  | 465.9  |
| 87.5°  | 349.8  | 348.1  | 348.1  | 348.1  | 332.8  | 314.0  | 322.5  | 327.6  | 324.2  | 322.5  | 320.8  |
| 90°    | 305.5  | 307.2  | 305.5  | 298.6  | 285.0  | 267.9  | 271.3  | 278.1  | 274.7  | 274.7  | 273.0  |
| 92.5°  | 274.7  | 274.7  | 271.3  | 264.5  | 250.8  | 235.5  | 237.2  | 240.6  | 238.9  | 237.2  | 235.5  |
| 95°    | 225.3  | 225.3  | 221.8  | 216.7  | 204.8  | 191.1  | 192.8  | 196.2  | 192.8  | 192.8  | 191.1  |
| 97.5°  | 175.8  | 175.8  | 174.1  | 170.6  | 160.4  | 150.2  | 151.9  | 153.6  | 151.9  | 151.9  | 150.2  |
| 100°   | 133.1  | 133.1  | 131.4  | 126.3  | 121.2  | 112.6  | 114.3  | 117.7  | 116.0  | 116.0  | 114.3  |
| 102.5° | 99.0   | 99.0   | 97.3   | 95.6   | 88.7   | 83.6   | 85.3   | 85.3   | 85.3   | 83.6   | 83.6   |
| 105°   | 76.8   | 76.8   | 76.8   | 73.4   | 70.0   | 64.8   | 64.8   | 64.8   | 64.8   | 63.1   | 63.1   |
| 107.5° | 61.4   | 59.7   | 59.7   | 58.0   | 54.6   | 51.2   | 51.2   | 51.2   | 51.2   | 51.2   | 51.2   |
| 110°   | 49.5   | 47.8   | 46.1   | 46.1   | 42.7   | 41.0   | 39.2   | 41.0   | 41.0   | 41.0   | 41.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 42.7 | 41.0 | 37.5 | 37.5 | 35.8 | 32.4 | 32.4 | 32.4 | 35.8 | 34.1 | 34.1 |
| 115°   | 37.5 | 35.8 | 30.7 | 30.7 | 29.0 | 27.3 | 27.3 | 27.3 | 30.7 | 27.3 | 27.3 |
| 117.5° | 32.4 | 30.7 | 25.6 | 25.6 | 23.9 | 22.2 | 22.2 | 22.2 | 25.6 | 22.2 | 22.2 |
| 120°   | 23.9 | 23.9 | 20.5 | 20.5 | 20.5 | 18.8 | 18.8 | 18.8 | 20.5 | 18.8 | 18.8 |
| 122.5° | 18.8 | 18.8 | 17.1 | 17.1 | 17.1 | 15.4 | 15.4 | 15.4 | 15.4 | 13.7 | 13.7 |
| 125°   | 18.8 | 22.2 | 13.7 | 13.7 | 11.9 | 11.9 | 11.9 | 10.2 | 11.9 | 10.2 | 10.2 |
| 127.5° | 20.5 | 18.8 | 10.2 | 10.2 | 10.2 | 8.5  | 8.5  | 8.5  | 8.5  | 8.5  | 8.5  |
| 130°   | 6.8  | 10.2 | 6.8  | 6.8  | 6.8  | 6.8  | 6.8  | 6.8  | 5.1  | 5.1  | 5.1  |
| 132.5° | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  |
| 135°   | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 137.5° | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 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  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 172.5° | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 177.5° | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 180°   | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |

(END OF REPORT)