

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: P588525

Luminaire Tested: **GAT-CA6-LED-80-730-U-55-5-6-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588525  
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-80-730-U-55-5-6-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7793 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

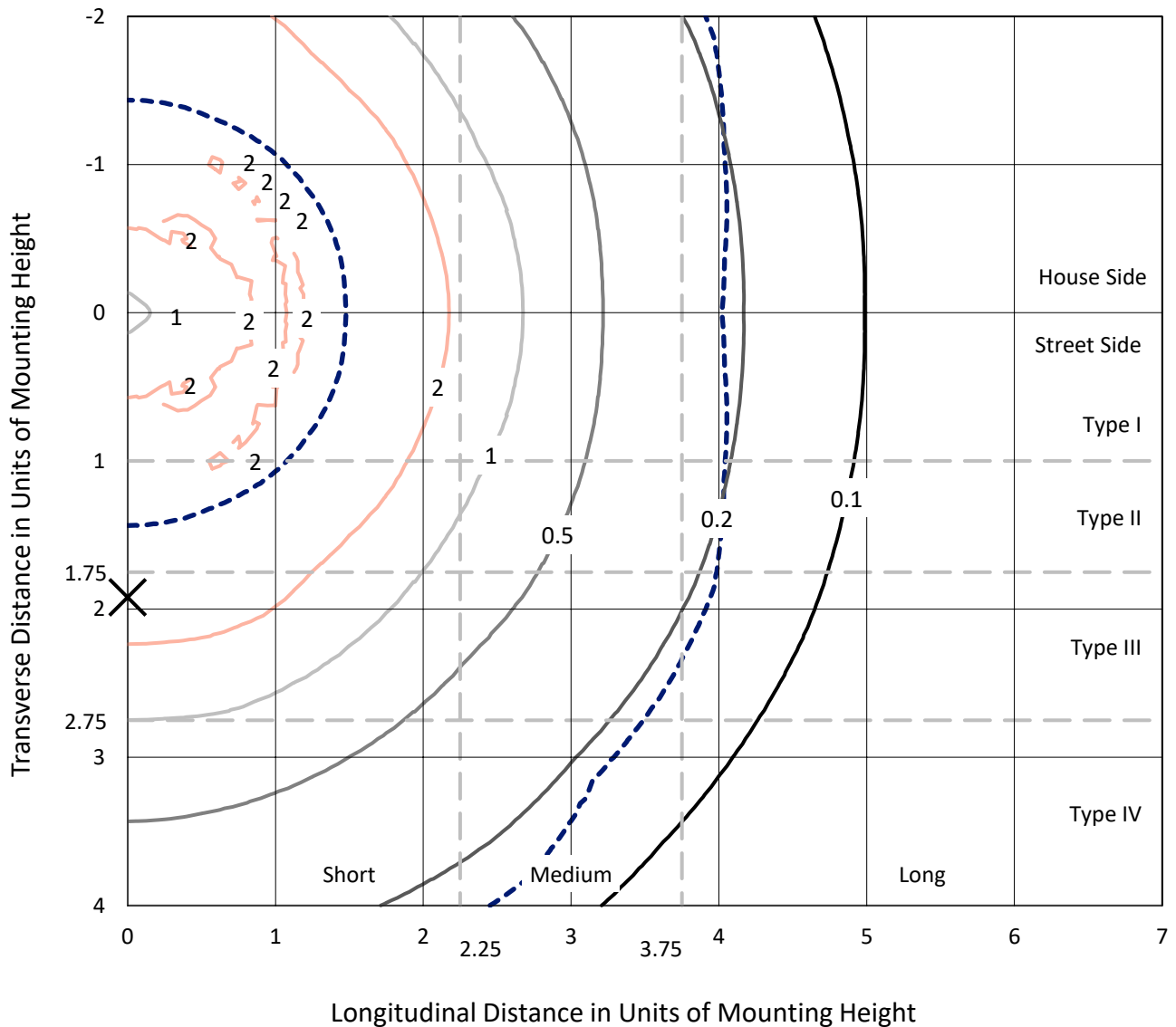
Input Watts (W): 84.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

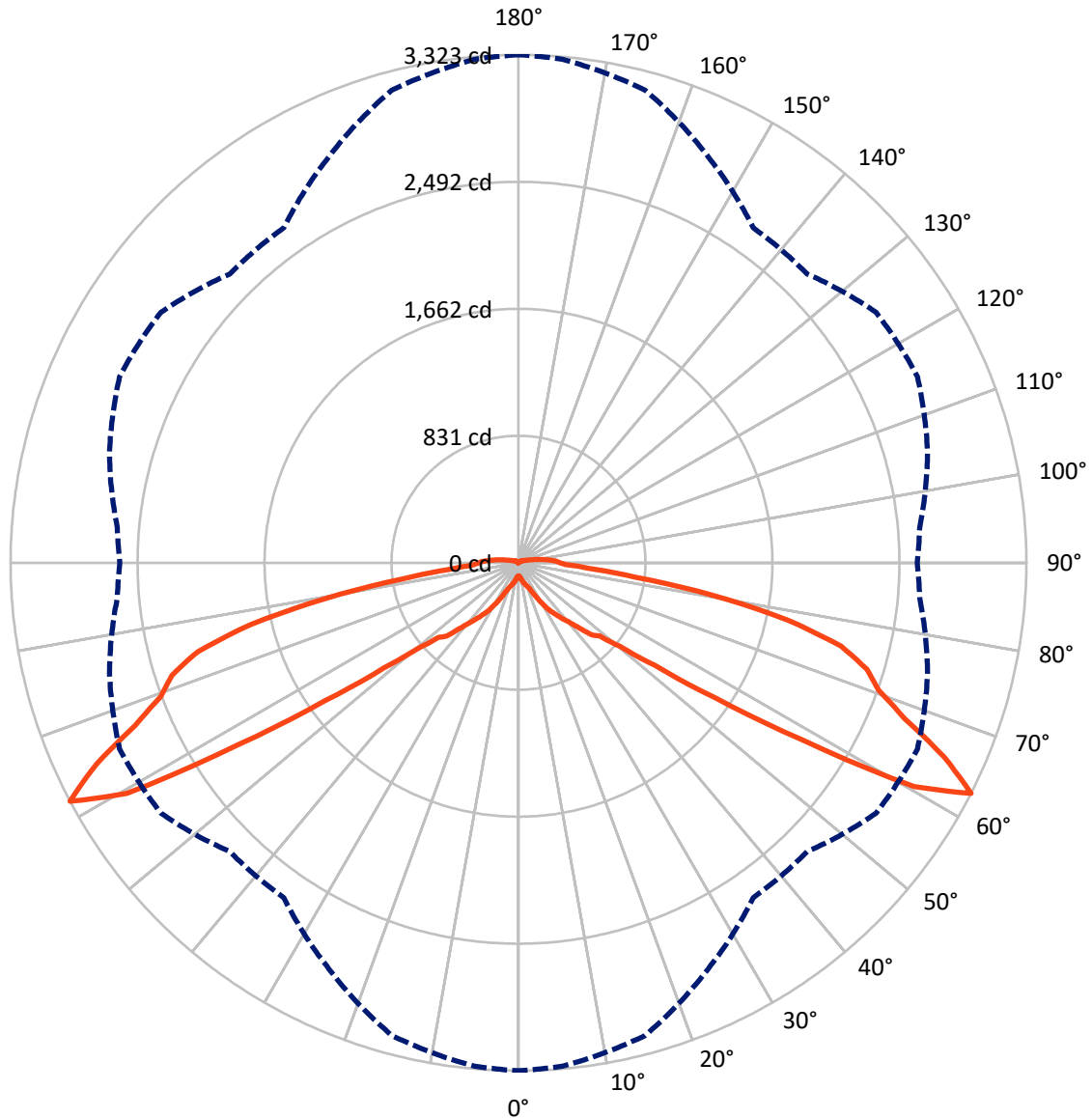
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 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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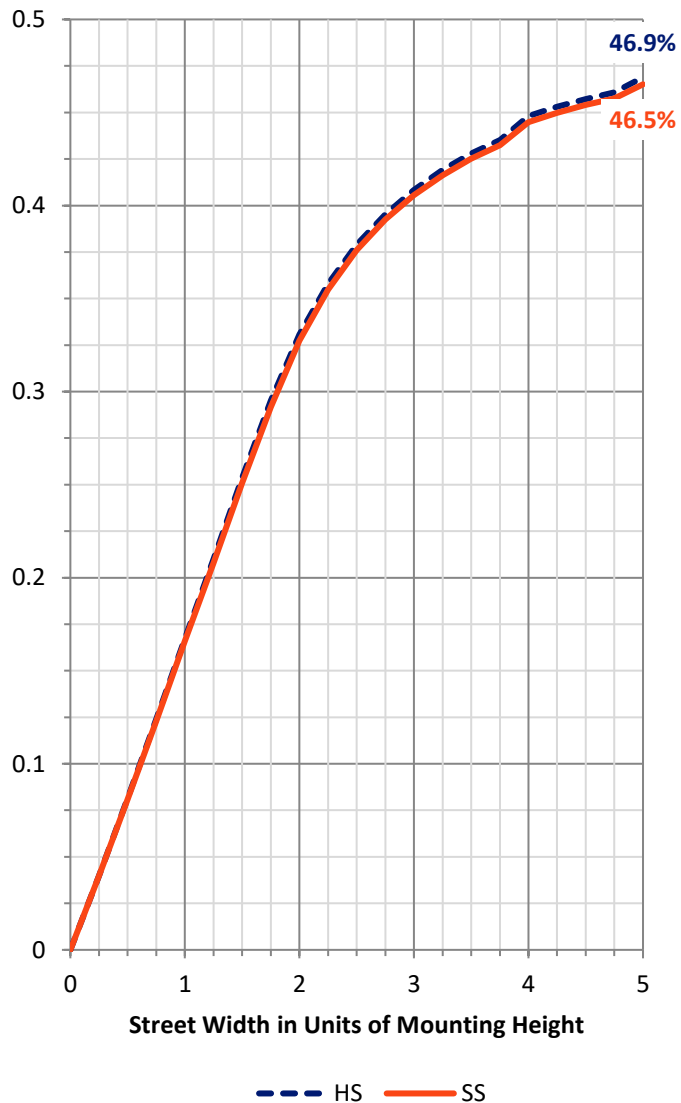
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3746.7   | 149.8  | 3896.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 3746.7   | 149.8  | 3896.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Total</b>       | Lumens    | 7493.5   | 299.5  | 7793.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.3    | 0.1       |
| 10°-20°   | 39.2   | 0.5       |
| 20°-30°   | 103.6  | 1.3       |
| 30°-40°   | 235.7  | 3.0       |
| 40°-50°   | 476.8  | 6.1       |
| 50°-60°   | 1411.4 | 18.1      |
| 60°-70°   | 2651.6 | 34.0      |
| 70°-80°   | 1970.9 | 25.3      |
| 80°-90°   | 595.0  | 7.6       |
| 90°-100°  | 193.1  | 2.5       |
| 100°-110° | 67.6   | 0.9       |
| 110°-120° | 26.2   | 0.3       |
| 120°-130° | 10.4   | 0.1       |
| 130°-140° | 2.1    | 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°    | 7493.5 | 96.2      |
| 0°-180°   | 7793.0 | 100.0     |

**Coefficient of Utilization**



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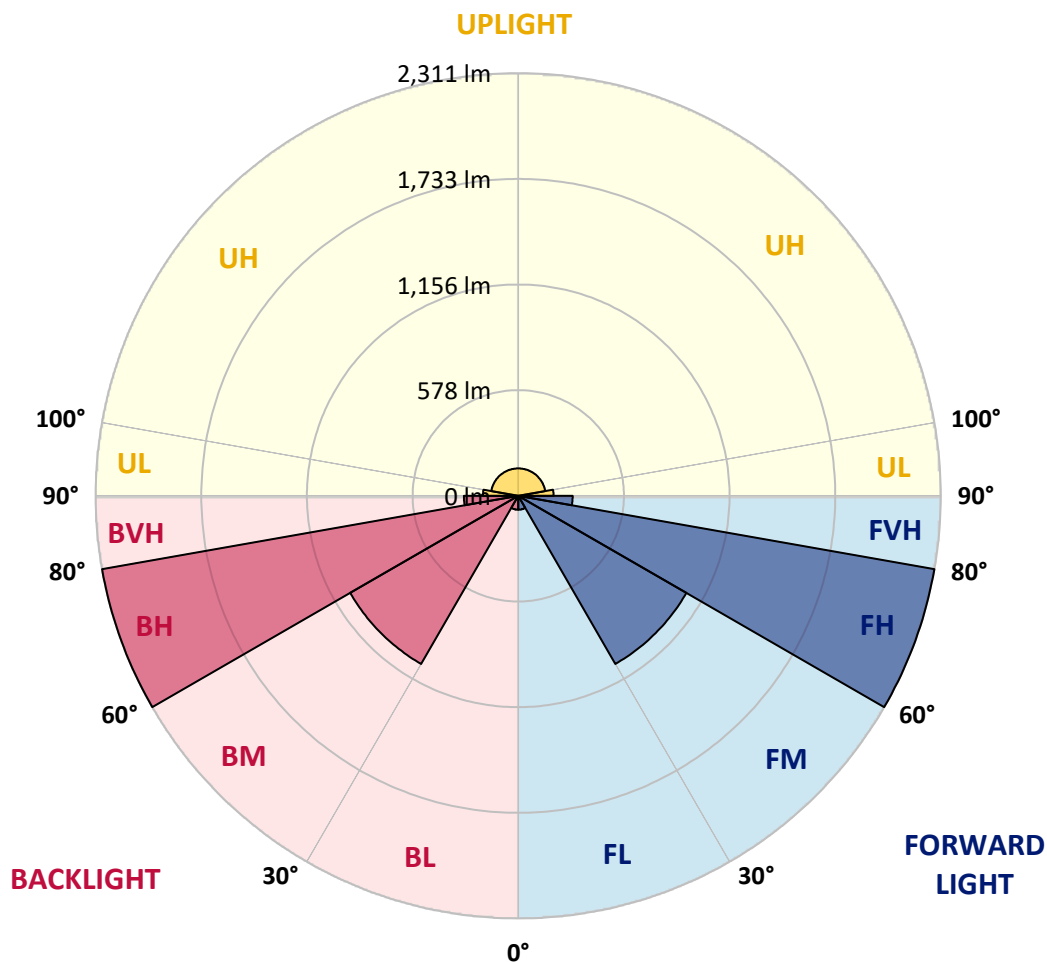
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 76.1   | 1.0       |                         |        |         |
| FM (30°-60°)   | 1061.9 | 13.6      |                         |        |         |
| FH (60°-80°)   | 2311.2 | 29.7      |                         |        | G2/5000 |
| FVH (80°-90°)  | 297.5  | 3.8       |                         |        | G3/500  |
| BL (0°-30°)    | 76.1   | 1.0       | B0/110                  |        |         |
| BM (30°-60°)   | 1061.9 | 13.6      | B2/2500                 |        |         |
| BH (60°-80°)   | 2311.2 | 29.7      | B3/2500                 |        | G2/5000 |
| BVH (80°-90°)  | 297.5  | 3.8       |                         |        | G3/500  |
| UL (90°-100°)  | 193.1  | 2.5       |                         | U3/500 |         |
| UH (100°-180°) | 149.8  | 1.9       |                         | U3/500 |         |

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   | 85.7   |
| 2.5°   | 87.2   | 87.2   | 87.2   | 85.7   | 84.2   | 84.2   | 84.2   | 84.2   | 82.7   | 82.7   | 82.7   |
| 5°     | 91.6   | 91.6   | 90.1   | 88.7   | 88.7   | 87.2   | 88.7   | 87.2   | 87.2   | 87.2   | 88.7   |
| 7.5°   | 102.0  | 102.0  | 100.5  | 100.5  | 100.5  | 99.0   | 99.0   | 99.0   | 99.0   | 97.5   | 99.0   |
| 10°    | 113.8  | 113.8  | 113.8  | 113.8  | 113.8  | 112.3  | 112.3  | 110.8  | 110.8  | 110.8  | 110.8  |
| 12.5°  | 127.1  | 125.6  | 125.6  | 127.1  | 125.6  | 124.1  | 124.1  | 124.1  | 122.6  | 122.6  | 122.6  |
| 15°    | 138.9  | 138.9  | 137.4  | 137.4  | 137.4  | 135.9  | 135.9  | 134.5  | 134.5  | 133.0  | 133.0  |
| 17.5°  | 150.7  | 150.7  | 149.2  | 147.8  | 147.8  | 147.8  | 146.3  | 146.3  | 144.8  | 144.8  | 144.8  |
| 20°    | 165.5  | 164.0  | 162.5  | 161.1  | 159.6  | 159.6  | 159.6  | 159.6  | 158.1  | 156.6  | 156.6  |
| 22.5°  | 181.7  | 180.3  | 178.8  | 177.3  | 177.3  | 175.8  | 175.8  | 174.4  | 174.4  | 172.9  | 171.4  |
| 25°    | 215.7  | 215.7  | 209.8  | 208.3  | 208.3  | 209.8  | 208.3  | 206.9  | 203.9  | 199.5  | 199.5  |
| 27.5°  | 261.5  | 263.0  | 264.5  | 271.9  | 270.4  | 260.1  | 254.1  | 251.2  | 249.7  | 249.7  | 251.2  |
| 30°    | 313.2  | 314.7  | 319.2  | 326.5  | 322.1  | 308.8  | 294.0  | 288.1  | 292.6  | 298.5  | 300.0  |
| 32.5°  | 367.9  | 367.9  | 359.1  | 348.7  | 338.4  | 329.5  | 325.1  | 322.1  | 320.6  | 316.2  | 316.2  |
| 35°    | 410.8  | 403.4  | 375.3  | 341.3  | 331.0  | 336.9  | 354.6  | 360.5  | 338.4  | 317.7  | 314.7  |
| 37.5°  | 459.5  | 458.1  | 435.9  | 410.8  | 391.6  | 388.6  | 407.8  | 413.7  | 390.1  | 376.8  | 375.3  |
| 40°    | 511.2  | 514.2  | 518.6  | 508.3  | 478.7  | 469.9  | 459.5  | 452.1  | 452.1  | 453.6  | 450.7  |
| 42.5°  | 580.7  | 585.1  | 585.1  | 586.6  | 563.0  | 542.3  | 521.6  | 509.8  | 508.3  | 520.1  | 524.5  |
| 45°    | 673.8  | 673.8  | 663.4  | 642.8  | 632.4  | 617.6  | 604.3  | 592.5  | 586.6  | 588.1  | 592.5  |
| 47.5°  | 715.2  | 718.1  | 709.2  | 679.7  | 672.3  | 657.5  | 638.3  | 633.9  | 636.8  | 641.3  | 642.8  |
| 50°    | 860.0  | 852.6  | 792.0  | 729.9  | 707.8  | 722.5  | 750.6  | 758.0  | 729.9  | 701.9  | 694.5  |
| 52.5°  | 1114.1 | 1112.6 | 1065.3 | 1019.5 | 988.5  | 979.6  | 1018.1 | 1021.0 | 972.3  | 951.6  | 948.6  |
| 55°    | 1554.4 | 1538.2 | 1573.6 | 1595.8 | 1530.8 | 1458.4 | 1431.8 | 1394.8 | 1397.8 | 1439.2 | 1440.6 |
| 57.5°  | 2179.4 | 2188.3 | 2228.2 | 2170.6 | 2071.6 | 2018.4 | 1981.4 | 1912.0 | 1913.5 | 1950.4 | 1953.4 |
| 60°    | 2972.9 | 2971.4 | 2844.4 | 2622.7 | 2470.5 | 2480.9 | 2582.8 | 2597.6 | 2439.5 | 2337.5 | 2325.7 |
| 62.5°  | 3323.1 | 3306.8 | 3201.9 | 2933.0 | 2675.9 | 2671.5 | 2856.2 | 2879.8 | 2770.5 | 2634.5 | 2607.9 |
| 65°    | 3058.6 | 3045.3 | 3089.6 | 2998.0 | 2659.7 | 2572.5 | 2628.6 | 2622.7 | 2692.2 | 2754.2 | 2761.6 |
| 67.5°  | 2723.2 | 2726.1 | 2832.5 | 2804.5 | 2569.5 | 2421.8 | 2350.8 | 2342.0 | 2472.0 | 2616.8 | 2636.0 |
| 70°    | 2498.6 | 2498.6 | 2574.0 | 2460.2 | 2347.9 | 2251.8 | 2178.0 | 2132.2 | 2216.4 | 2240.0 | 2238.5 |
| 72.5°  | 2383.3 | 2373.0 | 2319.8 | 2210.5 | 2124.8 | 2040.5 | 2062.7 | 2028.7 | 1988.8 | 1926.8 | 1920.9 |
| 75°    | 2178.0 | 2166.1 | 2092.3 | 2040.5 | 1978.5 | 1873.6 | 1892.8 | 1858.8 | 1792.3 | 1736.2 | 1727.3 |
| 77.5°  | 1799.7 | 1799.7 | 1752.4 | 1714.0 | 1696.3 | 1606.1 | 1597.3 | 1581.0 | 1514.5 | 1483.5 | 1471.7 |
| 80°    | 1288.5 | 1285.5 | 1266.3 | 1253.0 | 1275.2 | 1222.0 | 1198.3 | 1198.3 | 1171.7 | 1143.7 | 1130.4 |
| 82.5°  | 766.9  | 756.5  | 756.5  | 761.0  | 747.7  | 713.7  | 719.6  | 753.6  | 750.6  | 734.4  | 722.5  |
| 85°    | 453.6  | 447.7  | 443.3  | 437.4  | 425.5  | 401.9  | 401.9  | 404.9  | 407.8  | 409.3  | 403.4  |
| 87.5°  | 302.9  | 301.4  | 301.4  | 301.4  | 288.1  | 271.9  | 279.3  | 283.7  | 280.7  | 279.3  | 277.8  |
| 90°    | 264.5  | 266.0  | 264.5  | 258.6  | 246.8  | 232.0  | 234.9  | 240.8  | 237.9  | 237.9  | 236.4  |
| 92.5°  | 237.9  | 237.9  | 234.9  | 229.0  | 217.2  | 203.9  | 205.4  | 208.3  | 206.9  | 205.4  | 203.9  |
| 95°    | 195.0  | 195.0  | 192.1  | 187.7  | 177.3  | 165.5  | 167.0  | 169.9  | 167.0  | 167.0  | 165.5  |
| 97.5°  | 152.2  | 152.2  | 150.7  | 147.8  | 138.9  | 130.0  | 131.5  | 133.0  | 131.5  | 131.5  | 130.0  |
| 100°   | 115.3  | 115.3  | 113.8  | 109.3  | 104.9  | 97.5   | 99.0   | 102.0  | 100.5  | 100.5  | 99.0   |
| 102.5° | 85.7   | 85.7   | 84.2   | 82.7   | 76.8   | 72.4   | 73.9   | 73.9   | 73.9   | 72.4   | 72.4   |
| 105°   | 66.5   | 66.5   | 66.5   | 63.5   | 60.6   | 56.1   | 56.1   | 56.1   | 56.1   | 54.7   | 54.7   |
| 107.5° | 53.2   | 51.7   | 51.7   | 50.2   | 47.3   | 44.3   | 44.3   | 44.3   | 44.3   | 44.3   | 44.3   |
| 110°   | 42.9   | 41.4   | 39.9   | 39.9   | 36.9   | 35.5   | 34.0   | 35.5   | 35.5   | 35.5   | 35.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 36.9 | 35.5 | 32.5 | 32.5 | 31.0 | 28.1 | 28.1 | 28.1 | 31.0 | 29.6 | 29.6 |
| 115°   | 32.5 | 31.0 | 26.6 | 26.6 | 25.1 | 23.6 | 23.6 | 23.6 | 26.6 | 23.6 | 23.6 |
| 117.5° | 28.1 | 26.6 | 22.2 | 22.2 | 20.7 | 19.2 | 19.2 | 19.2 | 22.2 | 19.2 | 19.2 |
| 120°   | 20.7 | 20.7 | 17.7 | 17.7 | 17.7 | 16.3 | 16.3 | 16.3 | 17.7 | 16.3 | 16.3 |
| 122.5° | 16.3 | 16.3 | 14.8 | 14.8 | 14.8 | 13.3 | 13.3 | 13.3 | 13.3 | 11.8 | 11.8 |
| 125°   | 16.3 | 19.2 | 11.8 | 11.8 | 10.3 | 10.3 | 10.3 | 8.9  | 10.3 | 8.9  | 8.9  |
| 127.5° | 17.7 | 16.3 | 8.9  | 8.9  | 8.9  | 7.4  | 7.4  | 7.4  | 7.4  | 7.4  | 7.4  |
| 130°   | 5.9  | 8.9  | 5.9  | 5.9  | 5.9  | 5.9  | 5.9  | 5.9  | 4.4  | 4.4  | 4.4  |
| 132.5° | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| 135°   | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 137.5° | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 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  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 172.5° | 0.0  | 0.0  | 0.0  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 177.5° | 0.0  | 0.0  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
| 180°   | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |

(END OF REPORT)