

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: P588565

Luminaire Tested: **GAT-CA6-LED-100-727-U-33-5-6-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588565
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-100-727-U-33-5-6-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4177 lumens
Efficiency: N/A
Efficacy: 80.0 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

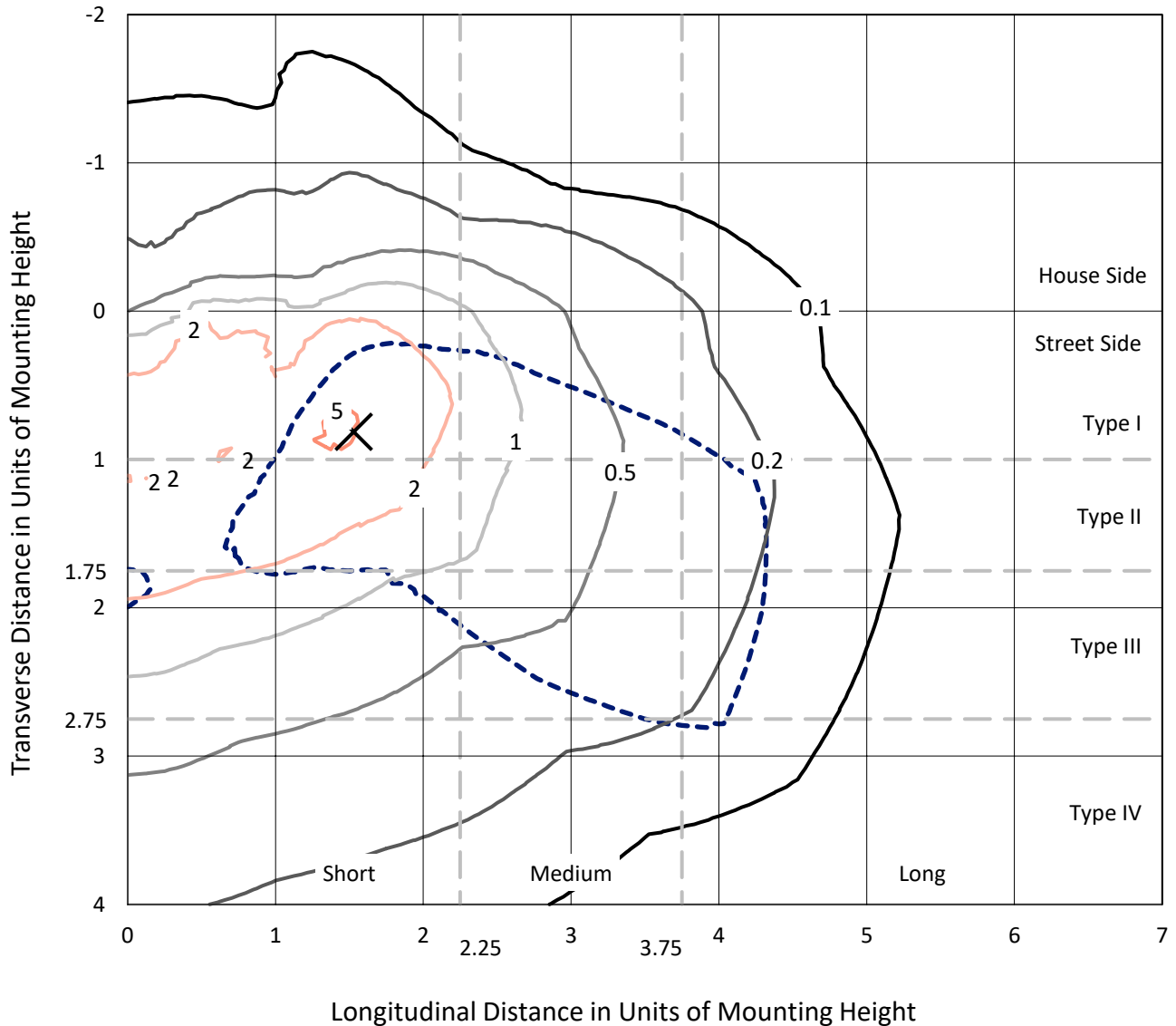
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 = 5.3 fc
 Type III - Short - Non-Cutoff

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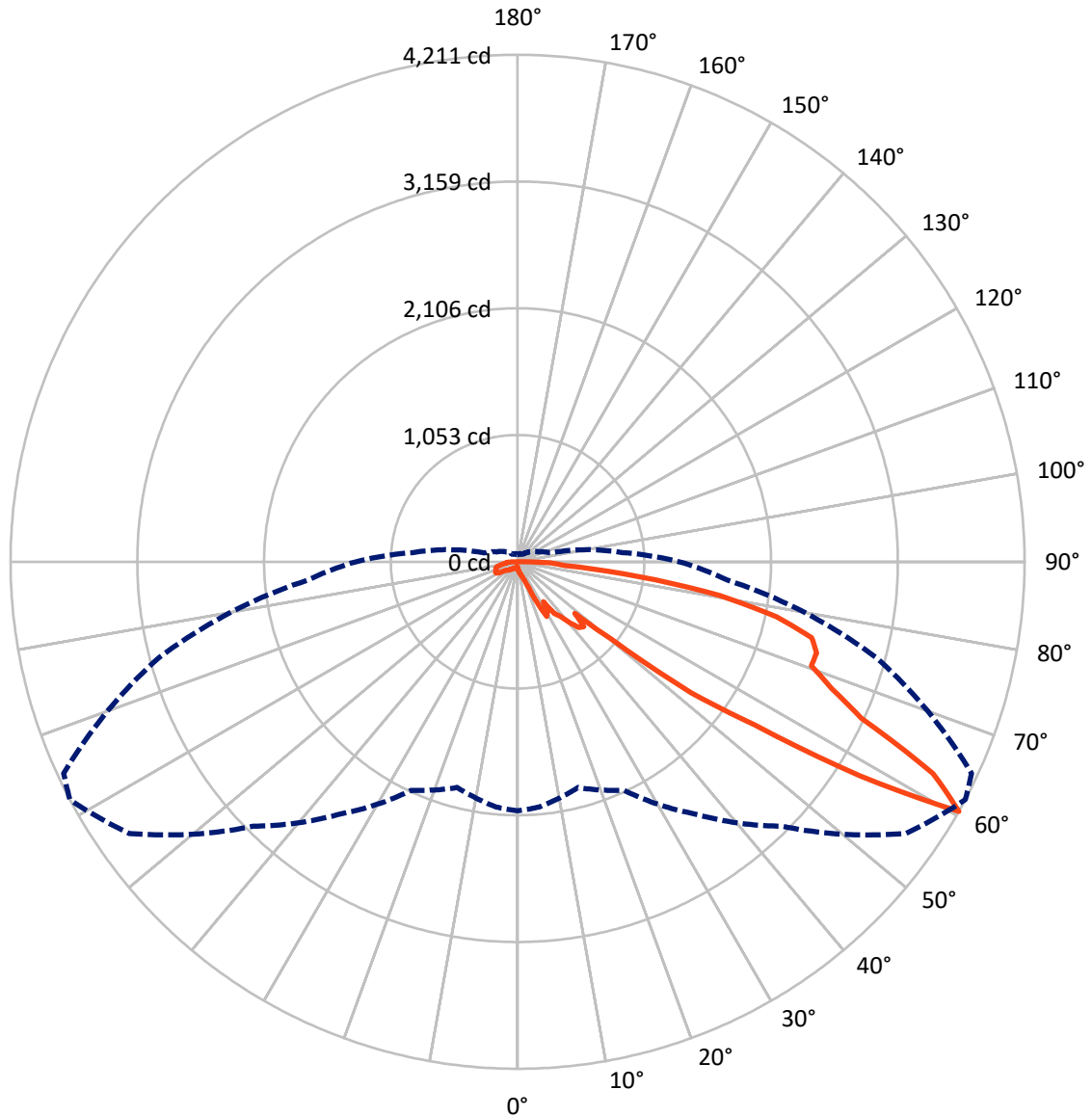
Scaled Data Report



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Luminous Intensity Polar Plot



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

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Scaled Data Report



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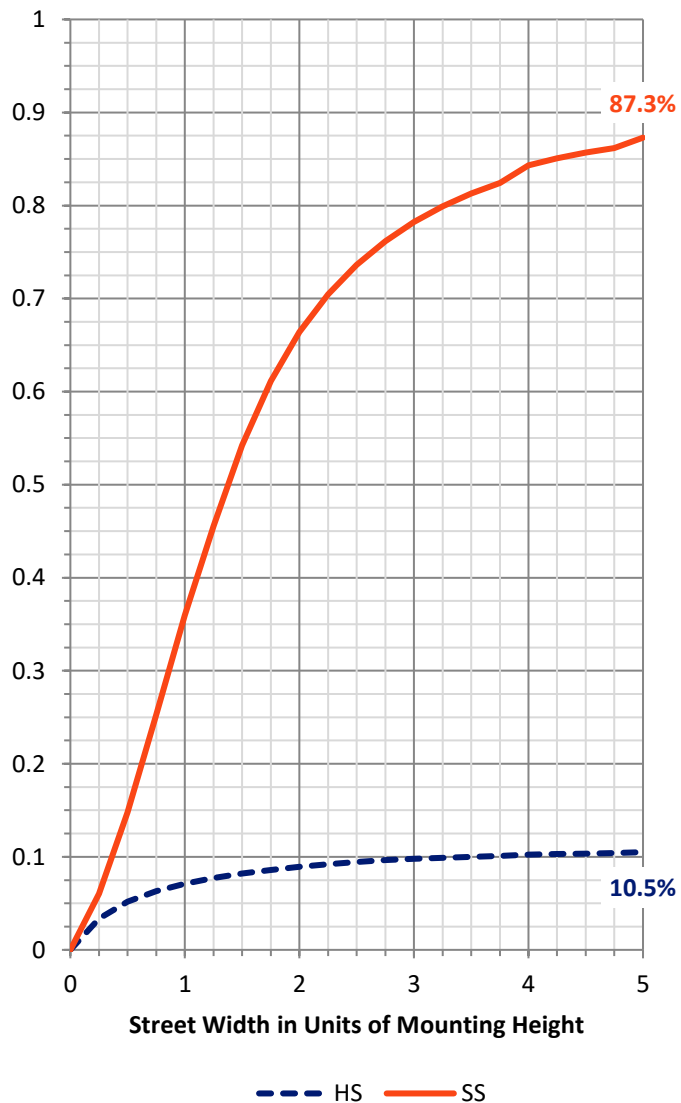
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 456.0 | 0.0 | 456.0 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 3721.0 | 0.0 | 3721.0 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 4177.0 | 0.0 | 4177.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.6 | 0.1 |
| 10°-20° | 23.7 | 0.6 |
| 20°-30° | 88.6 | 2.1 |
| 30°-40° | 175.0 | 4.2 |
| 40°-50° | 302.9 | 7.3 |
| 50°-60° | 896.9 | 21.5 |
| 60°-70° | 1325.0 | 31.7 |
| 70°-80° | 1062.8 | 25.4 |
| 80°-90° | 296.6 | 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° | 4177.0 | 100.0 |
| 0°-180° | 4177.0 | 100.0 |

Coefficient of Utilization



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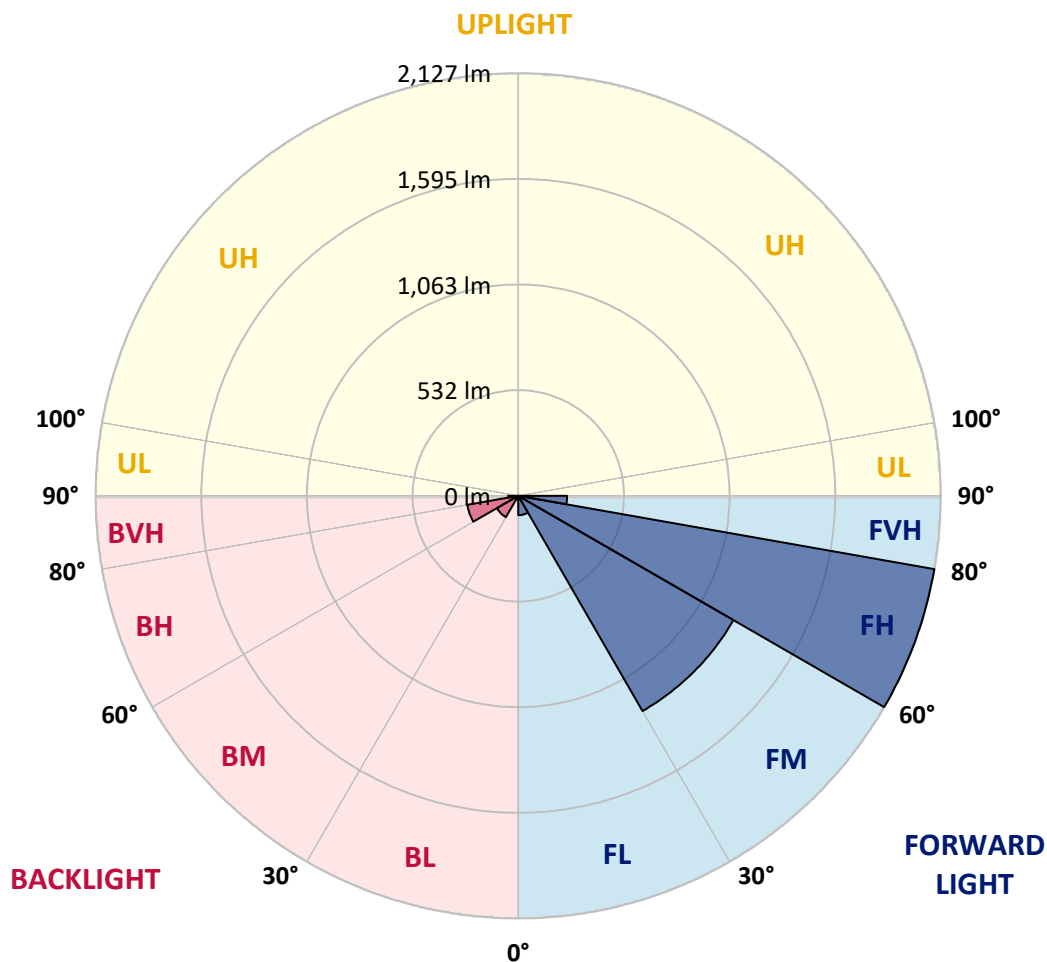
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 97.6 | 2.3 | | | |
| FM (30°-60°) | 1250.8 | 29.9 | | | |
| FH (60°-80°) | 2126.9 | 50.9 | | | G2/5000 |
| FVH (80°-90°) | 245.7 | 5.9 | | | G3/500 |
| BL (0°-30°) | 20.4 | 0.5 | B0/110 | | |
| BM (30°-60°) | 124.0 | 3.0 | B0/220 | | |
| BH (60°-80°) | 260.8 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 50.8 | 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° | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 |
| 2.5° | 70.0 | 68.8 | 66.6 | 64.3 | 63.2 | 62.1 | 60.9 | 59.8 | 58.7 | 55.3 | 53.0 |
| 5° | 85.8 | 84.6 | 82.4 | 79.0 | 75.6 | 73.3 | 72.2 | 71.1 | 68.8 | 65.5 | 59.8 |
| 7.5° | 97.0 | 97.0 | 97.0 | 94.8 | 91.4 | 86.9 | 83.5 | 81.2 | 79.0 | 74.5 | 68.8 |
| 10° | 110.6 | 109.5 | 109.5 | 106.1 | 102.7 | 99.3 | 97.0 | 94.8 | 92.5 | 85.8 | 76.7 |
| 12.5° | 120.7 | 119.6 | 118.5 | 115.1 | 114.0 | 110.6 | 109.5 | 104.9 | 102.7 | 94.8 | 83.5 |
| 15° | 132.0 | 130.9 | 128.6 | 127.5 | 124.1 | 121.9 | 123.0 | 121.9 | 119.6 | 109.5 | 92.5 |
| 17.5° | 144.4 | 143.3 | 142.2 | 142.2 | 142.2 | 139.9 | 138.8 | 136.5 | 134.3 | 118.5 | 98.2 |
| 20° | 169.3 | 165.9 | 162.5 | 160.2 | 164.8 | 165.9 | 165.9 | 163.6 | 163.6 | 136.5 | 112.8 |
| 22.5° | 215.5 | 212.1 | 209.9 | 193.0 | 199.7 | 231.3 | 241.5 | 230.2 | 232.5 | 179.4 | 124.1 |
| 25° | 338.5 | 327.3 | 321.6 | 323.9 | 343.0 | 378.0 | 383.7 | 370.1 | 376.9 | 278.7 | 198.6 |
| 27.5° | 396.1 | 398.3 | 442.4 | 487.5 | 493.1 | 511.2 | 541.7 | 513.4 | 498.8 | 356.6 | 248.3 |
| 30° | 404.0 | 408.5 | 489.7 | 525.9 | 512.3 | 503.3 | 571.0 | 488.6 | 463.8 | 337.4 | 273.1 |
| 32.5° | 372.4 | 392.7 | 479.6 | 494.3 | 462.7 | 413.0 | 462.7 | 393.8 | 385.9 | 293.4 | 259.5 |
| 35° | 432.2 | 442.4 | 481.8 | 425.4 | 415.3 | 476.2 | 603.7 | 529.2 | 511.2 | 362.2 | 249.4 |
| 37.5° | 523.6 | 520.2 | 595.8 | 639.8 | 624.0 | 562.0 | 628.5 | 572.1 | 557.5 | 455.9 | 356.6 |
| 40° | 639.8 | 631.9 | 723.3 | 743.6 | 729.0 | 725.6 | 813.6 | 662.4 | 634.2 | 508.9 | 423.2 |
| 42.5° | 672.6 | 674.8 | 733.5 | 783.1 | 771.9 | 770.7 | 902.8 | 747.0 | 704.2 | 514.6 | 464.9 |
| 45° | 687.2 | 699.6 | 812.5 | 782.0 | 793.3 | 773.0 | 890.3 | 769.6 | 733.5 | 572.1 | 547.3 |
| 47.5° | 596.9 | 603.7 | 759.4 | 760.6 | 617.3 | 621.8 | 726.7 | 641.0 | 615.0 | 448.0 | 471.7 |
| 50° | 770.7 | 769.6 | 826.0 | 780.9 | 715.4 | 828.3 | 1040.4 | 1007.7 | 988.5 | 672.6 | 523.6 |
| 52.5° | 1114.9 | 1102.5 | 1188.3 | 1259.3 | 1245.8 | 1506.5 | 1822.4 | 1808.9 | 1740.1 | 1319.2 | 827.2 |
| 55° | 1467.0 | 1461.3 | 1556.1 | 1806.6 | 1927.4 | 2172.3 | 2479.2 | 2393.4 | 2367.5 | 1943.2 | 1300.0 |
| 57.5° | 1757.0 | 1758.1 | 1788.6 | 2004.1 | 2250.1 | 2724.1 | 3255.6 | 3356.0 | 3303.0 | 2508.5 | 1579.8 |
| 60° | 2069.6 | 2044.7 | 1940.9 | 2094.4 | 2554.8 | 3105.5 | 3934.9 | 4211.4 | 4160.6 | 3086.3 | 1749.1 |
| 62.5° | 2091.0 | 2066.2 | 1889.0 | 2044.7 | 2396.8 | 2903.5 | 3648.3 | 3872.8 | 3931.5 | 3243.2 | 1799.9 |
| 65° | 1996.2 | 1965.8 | 1746.8 | 1863.1 | 2006.4 | 2313.3 | 3226.2 | 3137.1 | 3221.7 | 3194.6 | 1798.7 |
| 67.5° | 1891.3 | 1866.5 | 1661.1 | 1758.1 | 1868.7 | 2074.1 | 3036.7 | 2814.4 | 2901.2 | 3005.1 | 1883.4 |
| 70° | 1785.2 | 1750.2 | 1584.3 | 1689.3 | 1825.8 | 1964.6 | 2796.3 | 2587.5 | 2565.0 | 2545.8 | 1798.7 |
| 72.5° | 1767.2 | 1740.1 | 1564.0 | 1637.4 | 1792.0 | 1894.7 | 2756.8 | 2596.6 | 2574.0 | 2455.5 | 1645.3 |
| 75° | 1629.5 | 1627.2 | 1458.0 | 1526.8 | 1713.0 | 1777.3 | 2647.3 | 2524.3 | 2476.9 | 2324.6 | 1447.8 |
| 77.5° | 1315.8 | 1298.8 | 1175.8 | 1248.1 | 1416.2 | 1505.4 | 2278.3 | 2198.2 | 2171.1 | 2029.0 | 1197.3 |
| 80° | 884.7 | 870.0 | 817.0 | 858.7 | 1015.6 | 1093.5 | 1709.6 | 1702.8 | 1682.5 | 1588.9 | 884.7 |
| 82.5° | 503.3 | 528.1 | 478.5 | 497.6 | 551.8 | 647.7 | 1063.0 | 1016.7 | 1002.1 | 935.5 | 502.2 |
| 85° | 283.2 | 277.6 | 258.4 | 256.2 | 299.0 | 294.5 | 459.3 | 393.8 | 409.6 | 354.3 | 239.2 |
| 87.5° | 204.2 | 208.8 | 188.5 | 188.5 | 208.8 | 206.5 | 288.9 | 272.0 | 269.7 | 252.8 | 171.5 |
| 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° | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 |
| 2.5° | 51.9 | 50.8 | 47.4 | 44.0 | 38.4 | 32.7 | 29.3 | 31.6 | 32.7 | 33.9 | 33.9 |
| 5° | 56.4 | 54.2 | 47.4 | 40.6 | 33.9 | 28.2 | 23.7 | 21.4 | 21.4 | 22.6 | 22.6 |
| 7.5° | 66.6 | 63.2 | 54.2 | 46.3 | 37.2 | 31.6 | 26.0 | 22.6 | 20.3 | 20.3 | 20.3 |
| 10° | 72.2 | 68.8 | 58.7 | 49.7 | 40.6 | 33.9 | 28.2 | 23.7 | 21.4 | 20.3 | 20.3 |
| 12.5° | 77.9 | 73.3 | 63.2 | 53.0 | 42.9 | 35.0 | 29.3 | 24.8 | 23.7 | 23.7 | 23.7 |
| 15° | 84.6 | 77.9 | 65.5 | 54.2 | 44.0 | 36.1 | 29.3 | 26.0 | 24.8 | 24.8 | 24.8 |
| 17.5° | 91.4 | 84.6 | 70.0 | 55.3 | 45.1 | 36.1 | 30.5 | 26.0 | 24.8 | 26.0 | 26.0 |
| 20° | 102.7 | 90.3 | 70.0 | 56.4 | 45.1 | 36.1 | 30.5 | 26.0 | 26.0 | 26.0 | 26.0 |
| 22.5° | 108.3 | 98.2 | 74.5 | 57.6 | 46.3 | 37.2 | 30.5 | 26.0 | 26.0 | 26.0 | 26.0 |
| 25° | 167.0 | 124.1 | 77.9 | 59.8 | 47.4 | 38.4 | 30.5 | 27.1 | 26.0 | 27.1 | 27.1 |
| 27.5° | 209.9 | 174.9 | 89.1 | 63.2 | 48.5 | 39.5 | 31.6 | 27.1 | 27.1 | 28.2 | 28.2 |
| 30° | 233.6 | 199.7 | 97.0 | 68.8 | 51.9 | 40.6 | 32.7 | 28.2 | 28.2 | 28.2 | 28.2 |
| 32.5° | 222.3 | 180.6 | 98.2 | 75.6 | 57.6 | 42.9 | 33.9 | 29.3 | 29.3 | 29.3 | 29.3 |
| 35° | 193.0 | 149.0 | 95.9 | 76.7 | 60.9 | 47.4 | 36.1 | 30.5 | 30.5 | 29.3 | 29.3 |
| 37.5° | 269.7 | 187.3 | 99.3 | 76.7 | 63.2 | 50.8 | 39.5 | 32.7 | 31.6 | 30.5 | 30.5 |
| 40° | 319.4 | 208.8 | 109.5 | 82.4 | 63.2 | 51.9 | 41.8 | 36.1 | 33.9 | 32.7 | 31.6 |
| 42.5° | 354.3 | 229.1 | 117.4 | 90.3 | 70.0 | 54.2 | 42.9 | 39.5 | 36.1 | 33.9 | 33.9 |
| 45° | 405.1 | 242.6 | 127.5 | 99.3 | 76.7 | 59.8 | 46.3 | 40.6 | 39.5 | 37.2 | 36.1 |
| 47.5° | 370.1 | 247.1 | 137.7 | 109.5 | 84.6 | 65.5 | 50.8 | 44.0 | 42.9 | 40.6 | 39.5 |
| 50° | 380.3 | 240.4 | 141.1 | 116.2 | 92.5 | 70.0 | 55.3 | 48.5 | 46.3 | 44.0 | 44.0 |
| 52.5° | 519.1 | 318.2 | 154.6 | 119.6 | 95.9 | 76.7 | 59.8 | 53.0 | 50.8 | 48.5 | 48.5 |
| 55° | 847.5 | 487.5 | 190.7 | 132.0 | 99.3 | 79.0 | 64.3 | 58.7 | 55.3 | 53.0 | 51.9 |
| 57.5° | 1107.0 | 688.4 | 241.5 | 161.4 | 118.5 | 83.5 | 66.6 | 64.3 | 62.1 | 57.6 | 56.4 |
| 60° | 1342.9 | 872.3 | 284.4 | 194.1 | 149.0 | 108.3 | 76.7 | 71.1 | 70.0 | 63.2 | 60.9 |
| 62.5° | 1534.7 | 1024.6 | 319.4 | 212.1 | 170.4 | 139.9 | 104.9 | 88.0 | 79.0 | 71.1 | 68.8 |
| 65° | 1604.7 | 1075.4 | 332.9 | 215.5 | 176.0 | 155.7 | 132.0 | 119.6 | 93.7 | 81.2 | 79.0 |
| 67.5° | 1631.7 | 1064.1 | 339.7 | 208.8 | 171.5 | 155.7 | 138.8 | 139.9 | 114.0 | 90.3 | 86.9 |
| 70° | 1578.7 | 1020.1 | 336.3 | 202.0 | 164.8 | 151.2 | 135.4 | 130.9 | 118.5 | 97.0 | 92.5 |
| 72.5° | 1459.1 | 979.5 | 335.1 | 200.9 | 162.5 | 145.6 | 125.3 | 111.7 | 101.6 | 95.9 | 93.7 |
| 75° | 1339.5 | 952.4 | 330.6 | 199.7 | 159.1 | 137.7 | 114.0 | 97.0 | 83.5 | 84.6 | 86.9 |
| 77.5° | 1137.5 | 840.7 | 305.8 | 185.1 | 143.3 | 119.6 | 98.2 | 85.8 | 75.6 | 74.5 | 74.5 |
| 80° | 859.9 | 624.0 | 250.5 | 154.6 | 117.4 | 97.0 | 81.2 | 76.7 | 71.1 | 68.8 | 67.7 |
| 82.5° | 476.2 | 328.4 | 161.4 | 115.1 | 92.5 | 75.6 | 68.8 | 68.8 | 65.5 | 62.1 | 62.1 |
| 85° | 217.8 | 183.9 | 119.6 | 95.9 | 79.0 | 65.5 | 59.8 | 59.8 | 56.4 | 53.0 | 51.9 |
| 87.5° | 169.3 | 145.6 | 101.6 | 89.1 | 76.7 | 64.3 | 57.6 | 57.6 | 54.2 | 51.9 | 51.9 |
| 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)