

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: P588625

Luminaire Tested: **GAT-CA6-LED-90-727-U-33-5-6-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588625
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-90-727-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: 3825 lumens
Efficiency: N/A
Efficacy: 81.0 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

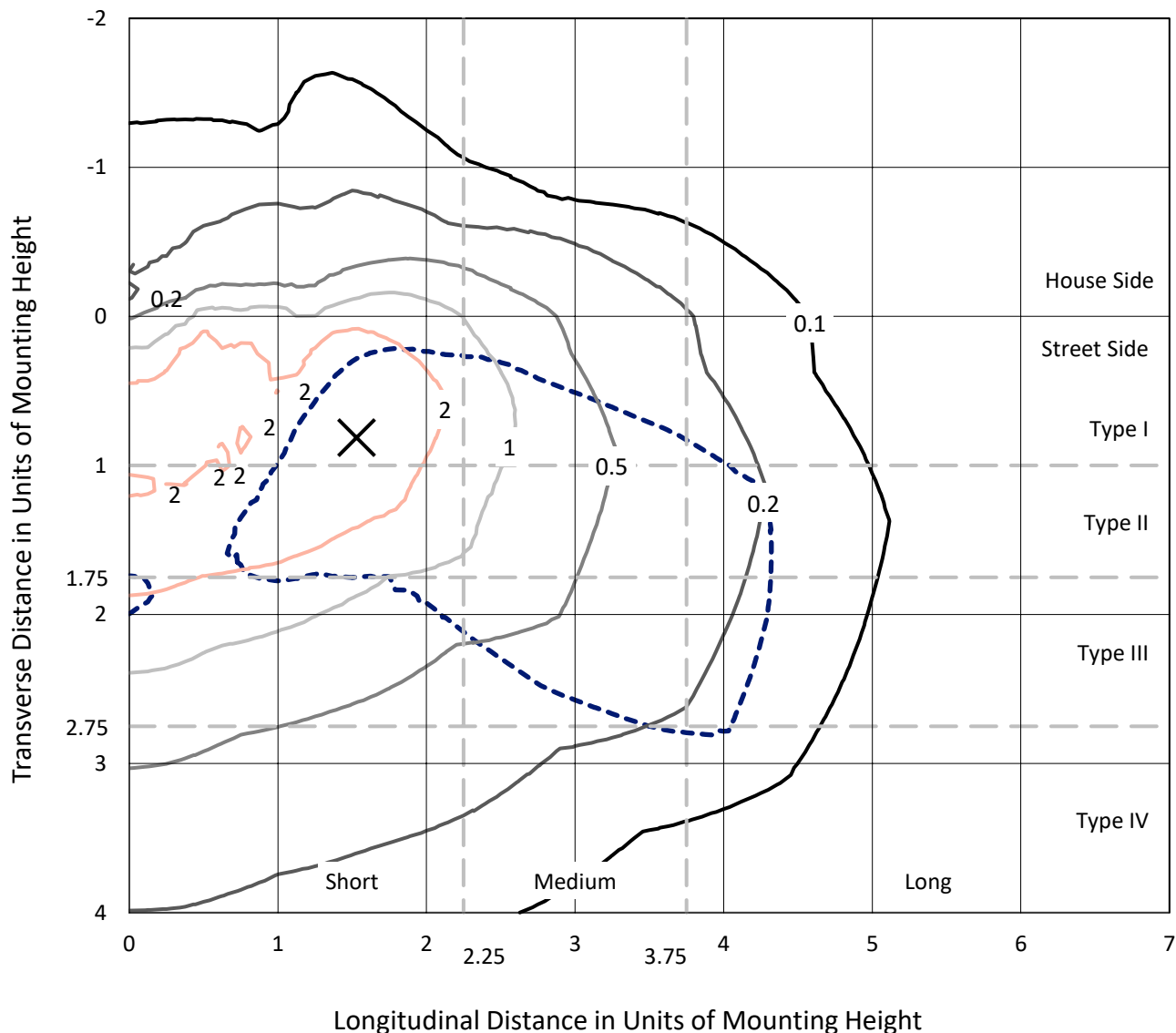
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 = 4.8 fc
 Type III - Short - Non-Cutoff

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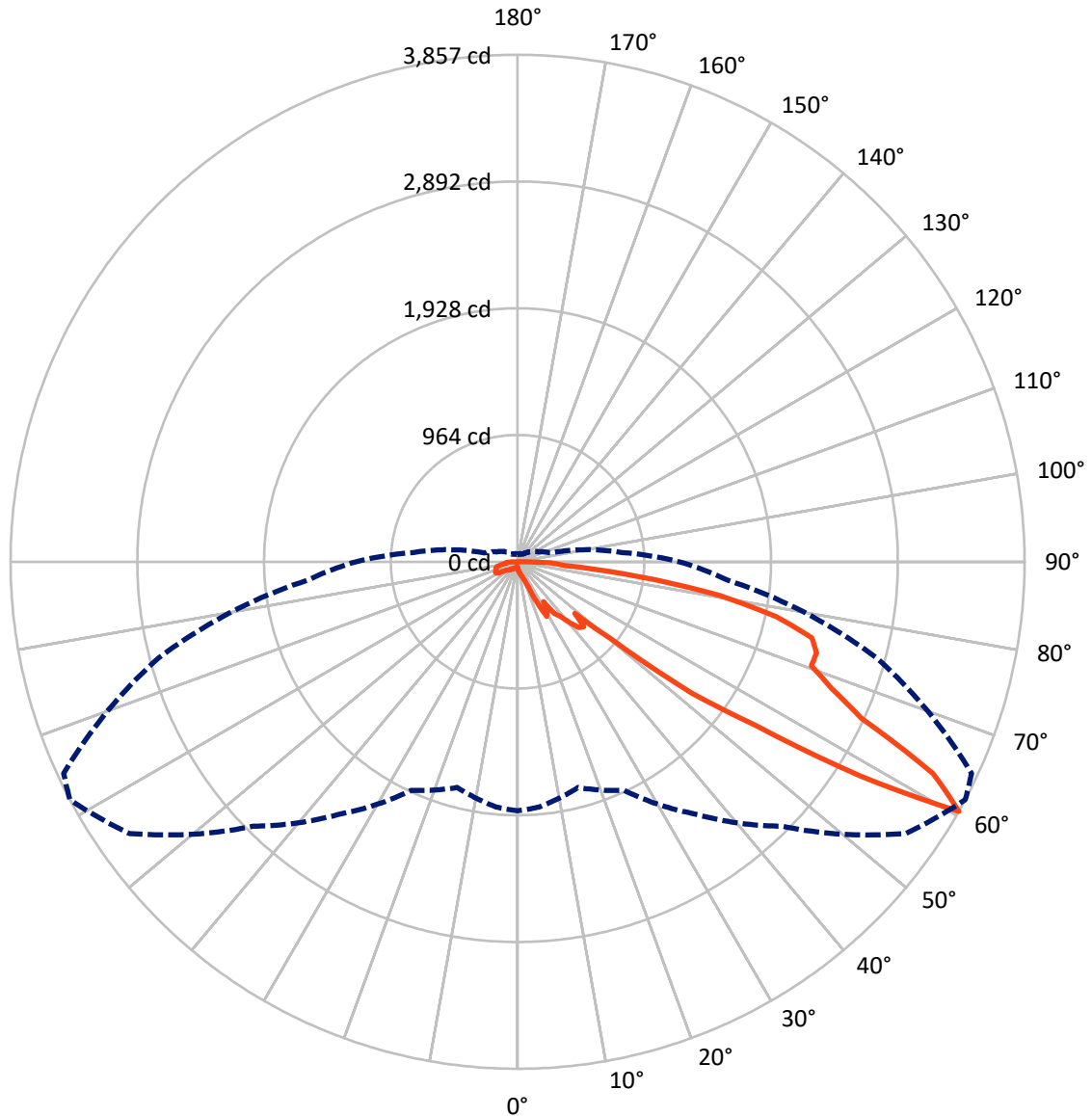
Scaled Data Report



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Luminous Intensity Polar Plot



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

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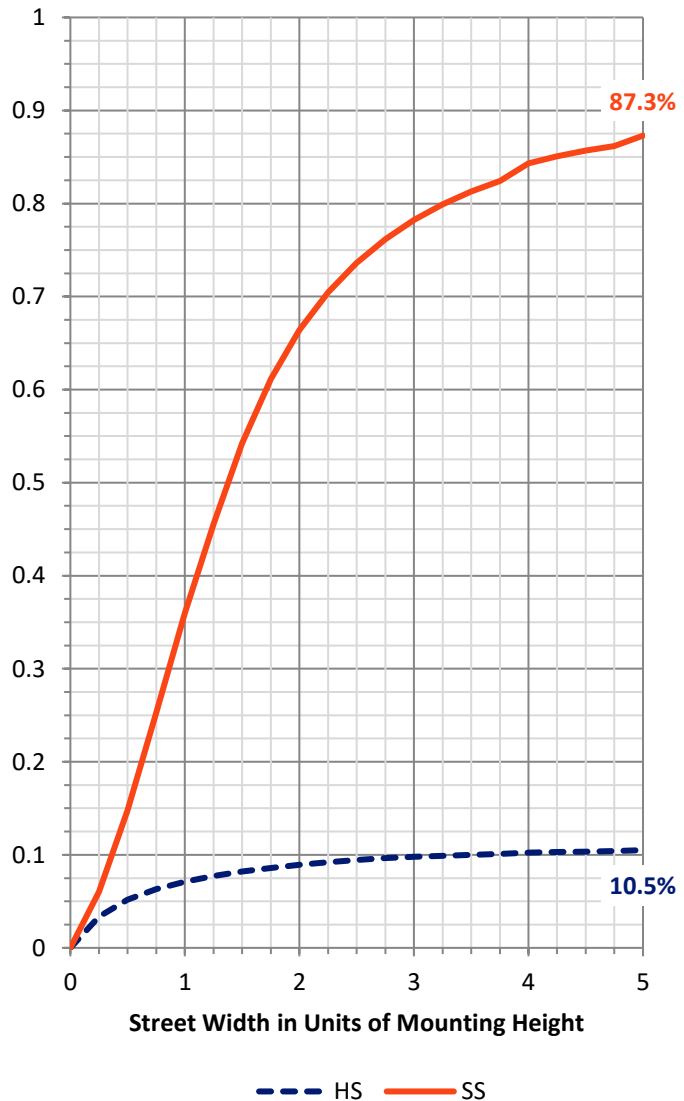
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 417.5 | 0.0 | 417.5 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 3407.4 | 0.0 | 3407.4 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 3825.0 | 0.0 | 3825.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.1 | 0.1 |
| 10°-20° | 21.7 | 0.6 |
| 20°-30° | 81.1 | 2.1 |
| 30°-40° | 160.3 | 4.2 |
| 40°-50° | 277.3 | 7.3 |
| 50°-60° | 821.3 | 21.5 |
| 60°-70° | 1213.3 | 31.7 |
| 70°-80° | 973.2 | 25.4 |
| 80°-90° | 271.6 | 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° | 3825.0 | 100.0 |
| 0°-180° | 3825.0 | 100.0 |

Coefficient of Utilization



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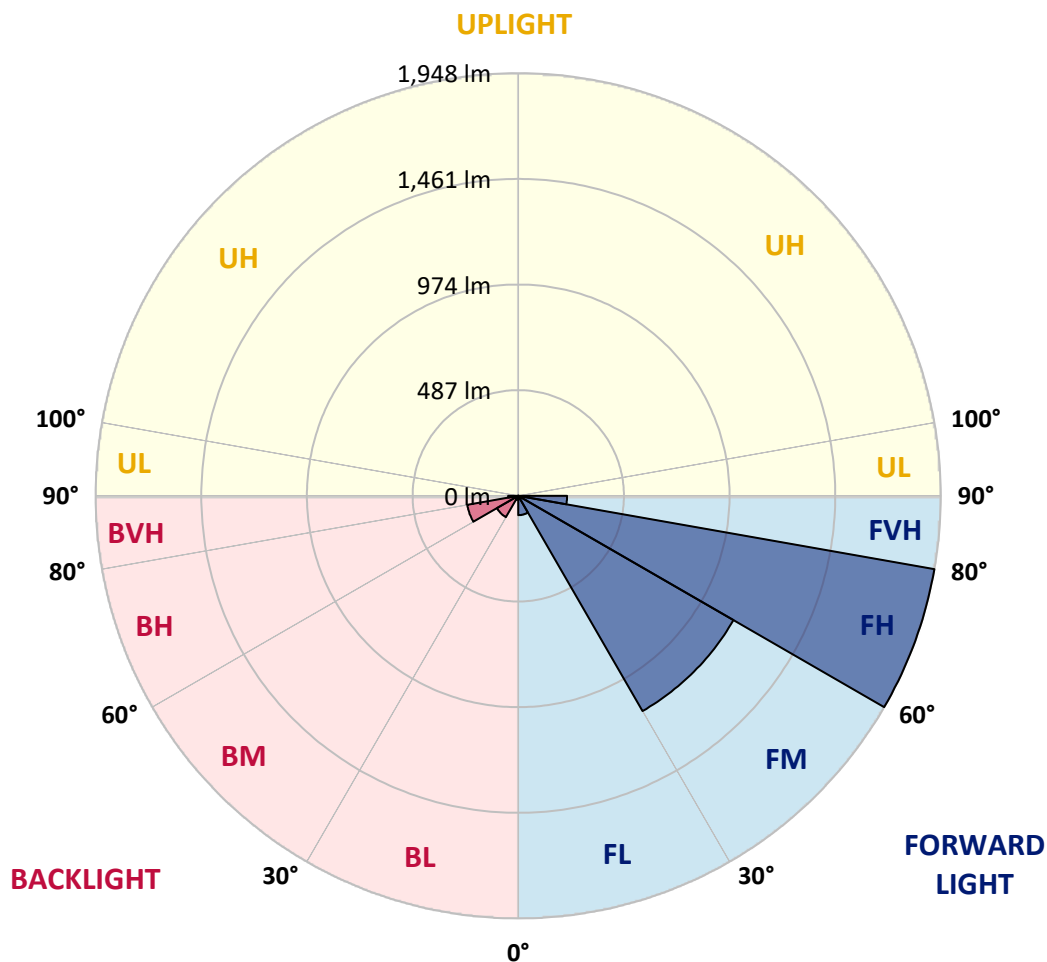
CATALOG NUMBER: GAT-CA6-LED-90-727-U-33-5-6-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 89.3 | 2.3 | | | |
| FM (30°-60°) | 1145.4 | 29.9 | | | |
| FH (60°-80°) | 1947.7 | 50.9 | | | G2/5000 |
| FVH (80°-90°) | 225.0 | 5.9 | | | G3/500 |
| BL (0°-30°) | 18.6 | 0.5 | B0/110 | | |
| BM (30°-60°) | 113.5 | 3.0 | B0/220 | | |
| BH (60°-80°) | 238.8 | 6.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 46.5 | 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° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 2.5° | 64.1 | 63.0 | 61.0 | 58.9 | 57.9 | 56.8 | 55.8 | 54.8 | 53.7 | 50.6 | 48.6 |
| 5° | 78.5 | 77.5 | 75.4 | 72.3 | 69.2 | 67.2 | 66.1 | 65.1 | 63.0 | 59.9 | 54.8 |
| 7.5° | 88.9 | 88.9 | 88.9 | 86.8 | 83.7 | 79.6 | 76.5 | 74.4 | 72.3 | 68.2 | 63.0 |
| 10° | 101.3 | 100.2 | 100.2 | 97.1 | 94.0 | 90.9 | 88.9 | 86.8 | 84.7 | 78.5 | 70.3 |
| 12.5° | 110.6 | 109.5 | 108.5 | 105.4 | 104.4 | 101.3 | 100.2 | 96.1 | 94.0 | 86.8 | 76.5 |
| 15° | 120.9 | 119.9 | 117.8 | 116.8 | 113.7 | 111.6 | 112.6 | 111.6 | 109.5 | 100.2 | 84.7 |
| 17.5° | 132.3 | 131.2 | 130.2 | 130.2 | 130.2 | 128.1 | 127.1 | 125.0 | 123.0 | 108.5 | 89.9 |
| 20° | 155.0 | 151.9 | 148.8 | 146.7 | 150.9 | 151.9 | 151.9 | 149.8 | 149.8 | 125.0 | 103.3 |
| 22.5° | 197.4 | 194.3 | 192.2 | 176.7 | 182.9 | 211.8 | 221.1 | 210.8 | 212.9 | 164.3 | 113.7 |
| 25° | 310.0 | 299.7 | 294.5 | 296.6 | 314.1 | 346.2 | 351.3 | 338.9 | 345.1 | 255.2 | 181.9 |
| 27.5° | 362.7 | 364.8 | 405.1 | 446.4 | 451.6 | 468.1 | 496.0 | 470.2 | 456.7 | 326.5 | 227.3 |
| 30° | 369.9 | 374.1 | 448.5 | 481.5 | 469.1 | 460.9 | 522.9 | 447.4 | 424.7 | 309.0 | 250.1 |
| 32.5° | 341.0 | 359.6 | 439.2 | 452.6 | 423.7 | 378.2 | 423.7 | 360.6 | 353.4 | 268.7 | 237.7 |
| 35° | 395.8 | 405.1 | 441.2 | 389.6 | 380.3 | 436.1 | 552.8 | 484.6 | 468.1 | 331.7 | 228.4 |
| 37.5° | 479.5 | 476.4 | 545.6 | 585.9 | 571.4 | 514.6 | 575.6 | 523.9 | 510.5 | 417.5 | 326.5 |
| 40° | 585.9 | 578.7 | 662.4 | 681.0 | 667.5 | 664.4 | 745.0 | 606.6 | 580.7 | 466.0 | 387.5 |
| 42.5° | 615.9 | 617.9 | 671.7 | 717.1 | 706.8 | 705.8 | 826.7 | 684.1 | 644.8 | 471.2 | 425.7 |
| 45° | 629.3 | 640.7 | 744.0 | 716.1 | 726.4 | 707.8 | 815.3 | 704.7 | 671.7 | 523.9 | 501.2 |
| 47.5° | 546.6 | 552.8 | 695.4 | 696.5 | 565.2 | 569.4 | 665.5 | 586.9 | 563.2 | 410.2 | 431.9 |
| 50° | 705.8 | 704.7 | 756.4 | 715.1 | 655.1 | 758.5 | 952.8 | 922.8 | 905.2 | 615.9 | 479.5 |
| 52.5° | 1021.0 | 1009.6 | 1088.1 | 1153.2 | 1140.8 | 1379.5 | 1668.9 | 1656.5 | 1593.4 | 1208.0 | 757.4 |
| 55° | 1343.4 | 1338.2 | 1425.0 | 1654.4 | 1765.0 | 1989.2 | 2270.3 | 2191.7 | 2168.0 | 1779.4 | 1190.4 |
| 57.5° | 1608.9 | 1610.0 | 1637.9 | 1835.2 | 2060.5 | 2494.5 | 2981.2 | 3073.2 | 3024.6 | 2297.1 | 1446.7 |
| 60° | 1895.2 | 1872.4 | 1777.4 | 1917.9 | 2339.5 | 2843.8 | 3603.3 | 3856.5 | 3810.0 | 2826.2 | 1601.7 |
| 62.5° | 1914.8 | 1892.1 | 1729.8 | 1872.4 | 2194.8 | 2658.8 | 3340.8 | 3546.5 | 3600.2 | 2969.9 | 1648.2 |
| 65° | 1828.0 | 1800.1 | 1599.6 | 1706.1 | 1837.3 | 2118.4 | 2954.4 | 2872.7 | 2950.2 | 2925.4 | 1647.2 |
| 67.5° | 1731.9 | 1709.2 | 1521.1 | 1610.0 | 1711.2 | 1899.3 | 2780.8 | 2577.2 | 2656.8 | 2751.8 | 1724.7 |
| 70° | 1634.8 | 1602.7 | 1450.8 | 1546.9 | 1672.0 | 1799.1 | 2560.6 | 2369.5 | 2348.8 | 2331.2 | 1647.2 |
| 72.5° | 1618.2 | 1593.4 | 1432.2 | 1499.4 | 1641.0 | 1735.0 | 2524.5 | 2377.7 | 2357.1 | 2248.6 | 1506.6 |
| 75° | 1492.2 | 1490.1 | 1335.1 | 1398.1 | 1568.6 | 1627.5 | 2424.2 | 2311.6 | 2268.2 | 2128.7 | 1325.8 |
| 77.5° | 1204.9 | 1189.4 | 1076.8 | 1142.9 | 1296.9 | 1378.5 | 2086.3 | 2013.0 | 1988.2 | 1858.0 | 1096.4 |
| 80° | 810.1 | 796.7 | 748.1 | 786.4 | 930.0 | 1001.3 | 1565.5 | 1559.3 | 1540.7 | 1455.0 | 810.1 |
| 82.5° | 460.9 | 483.6 | 438.1 | 455.7 | 505.3 | 593.1 | 973.4 | 931.1 | 917.6 | 856.6 | 459.8 |
| 85° | 259.4 | 254.2 | 236.6 | 234.6 | 273.8 | 269.7 | 420.6 | 360.6 | 375.1 | 324.5 | 219.1 |
| 87.5° | 187.0 | 191.2 | 172.6 | 172.6 | 191.2 | 189.1 | 264.5 | 249.0 | 247.0 | 231.5 | 157.1 |
| 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° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 2.5° | 47.5 | 46.5 | 43.4 | 40.3 | 35.1 | 30.0 | 26.9 | 28.9 | 30.0 | 31.0 | 31.0 |
| 5° | 51.7 | 49.6 | 43.4 | 37.2 | 31.0 | 25.8 | 21.7 | 19.6 | 19.6 | 20.7 | 20.7 |
| 7.5° | 61.0 | 57.9 | 49.6 | 42.4 | 34.1 | 28.9 | 23.8 | 20.7 | 18.6 | 18.6 | 18.6 |
| 10° | 66.1 | 63.0 | 53.7 | 45.5 | 37.2 | 31.0 | 25.8 | 21.7 | 19.6 | 18.6 | 18.6 |
| 12.5° | 71.3 | 67.2 | 57.9 | 48.6 | 39.3 | 32.0 | 26.9 | 22.7 | 21.7 | 21.7 | 21.7 |
| 15° | 77.5 | 71.3 | 59.9 | 49.6 | 40.3 | 33.1 | 26.9 | 23.8 | 22.7 | 22.7 | 22.7 |
| 17.5° | 83.7 | 77.5 | 64.1 | 50.6 | 41.3 | 33.1 | 27.9 | 23.8 | 22.7 | 23.8 | 23.8 |
| 20° | 94.0 | 82.7 | 64.1 | 51.7 | 41.3 | 33.1 | 27.9 | 23.8 | 23.8 | 23.8 | 23.8 |
| 22.5° | 99.2 | 89.9 | 68.2 | 52.7 | 42.4 | 34.1 | 27.9 | 23.8 | 23.8 | 23.8 | 23.8 |
| 25° | 152.9 | 113.7 | 71.3 | 54.8 | 43.4 | 35.1 | 27.9 | 24.8 | 23.8 | 24.8 | 24.8 |
| 27.5° | 192.2 | 160.2 | 81.6 | 57.9 | 44.4 | 36.2 | 28.9 | 24.8 | 24.8 | 25.8 | 25.8 |
| 30° | 213.9 | 182.9 | 88.9 | 63.0 | 47.5 | 37.2 | 30.0 | 25.8 | 25.8 | 25.8 | 25.8 |
| 32.5° | 203.6 | 165.3 | 89.9 | 69.2 | 52.7 | 39.3 | 31.0 | 26.9 | 26.9 | 26.9 | 26.9 |
| 35° | 176.7 | 136.4 | 87.8 | 70.3 | 55.8 | 43.4 | 33.1 | 27.9 | 27.9 | 26.9 | 26.9 |
| 37.5° | 247.0 | 171.5 | 90.9 | 70.3 | 57.9 | 46.5 | 36.2 | 30.0 | 28.9 | 27.9 | 27.9 |
| 40° | 292.4 | 191.2 | 100.2 | 75.4 | 57.9 | 47.5 | 38.2 | 33.1 | 31.0 | 30.0 | 28.9 |
| 42.5° | 324.5 | 209.8 | 107.5 | 82.7 | 64.1 | 49.6 | 39.3 | 36.2 | 33.1 | 31.0 | 31.0 |
| 45° | 371.0 | 222.2 | 116.8 | 90.9 | 70.3 | 54.8 | 42.4 | 37.2 | 36.2 | 34.1 | 33.1 |
| 47.5° | 338.9 | 226.3 | 126.1 | 100.2 | 77.5 | 59.9 | 46.5 | 40.3 | 39.3 | 37.2 | 36.2 |
| 50° | 348.2 | 220.1 | 129.2 | 106.4 | 84.7 | 64.1 | 50.6 | 44.4 | 42.4 | 40.3 | 40.3 |
| 52.5° | 475.3 | 291.4 | 141.6 | 109.5 | 87.8 | 70.3 | 54.8 | 48.6 | 46.5 | 44.4 | 44.4 |
| 55° | 776.0 | 446.4 | 174.6 | 120.9 | 90.9 | 72.3 | 58.9 | 53.7 | 50.6 | 48.6 | 47.5 |
| 57.5° | 1013.7 | 630.3 | 221.1 | 147.8 | 108.5 | 76.5 | 61.0 | 58.9 | 56.8 | 52.7 | 51.7 |
| 60° | 1229.7 | 798.8 | 260.4 | 177.7 | 136.4 | 99.2 | 70.3 | 65.1 | 64.1 | 57.9 | 55.8 |
| 62.5° | 1405.4 | 938.3 | 292.4 | 194.3 | 156.0 | 128.1 | 96.1 | 80.6 | 72.3 | 65.1 | 63.0 |
| 65° | 1469.4 | 984.8 | 304.8 | 197.4 | 161.2 | 142.6 | 120.9 | 109.5 | 85.8 | 74.4 | 72.3 |
| 67.5° | 1494.2 | 974.5 | 311.0 | 191.2 | 157.1 | 142.6 | 127.1 | 128.1 | 104.4 | 82.7 | 79.6 |
| 70° | 1445.7 | 934.2 | 307.9 | 185.0 | 150.9 | 138.5 | 124.0 | 119.9 | 108.5 | 88.9 | 84.7 |
| 72.5° | 1336.1 | 897.0 | 306.9 | 183.9 | 148.8 | 133.3 | 114.7 | 102.3 | 93.0 | 87.8 | 85.8 |
| 75° | 1226.6 | 872.1 | 302.8 | 182.9 | 145.7 | 126.1 | 104.4 | 88.9 | 76.5 | 77.5 | 79.6 |
| 77.5° | 1041.6 | 769.8 | 280.0 | 169.5 | 131.2 | 109.5 | 89.9 | 78.5 | 69.2 | 68.2 | 68.2 |
| 80° | 787.4 | 571.4 | 229.4 | 141.6 | 107.5 | 88.9 | 74.4 | 70.3 | 65.1 | 63.0 | 62.0 |
| 82.5° | 436.1 | 300.7 | 147.8 | 105.4 | 84.7 | 69.2 | 63.0 | 63.0 | 59.9 | 56.8 | 56.8 |
| 85° | 199.4 | 168.4 | 109.5 | 87.8 | 72.3 | 59.9 | 54.8 | 54.8 | 51.7 | 48.6 | 47.5 |
| 87.5° | 155.0 | 133.3 | 93.0 | 81.6 | 70.3 | 58.9 | 52.7 | 52.7 | 49.6 | 47.5 | 47.5 |
| 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)