

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: P588477

Luminaire Tested: **GAT-CA6-LED-60-730-U-55-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588477
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-60-730-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: 6045 lumens
Efficiency: N/A
Efficacy: 94.0 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

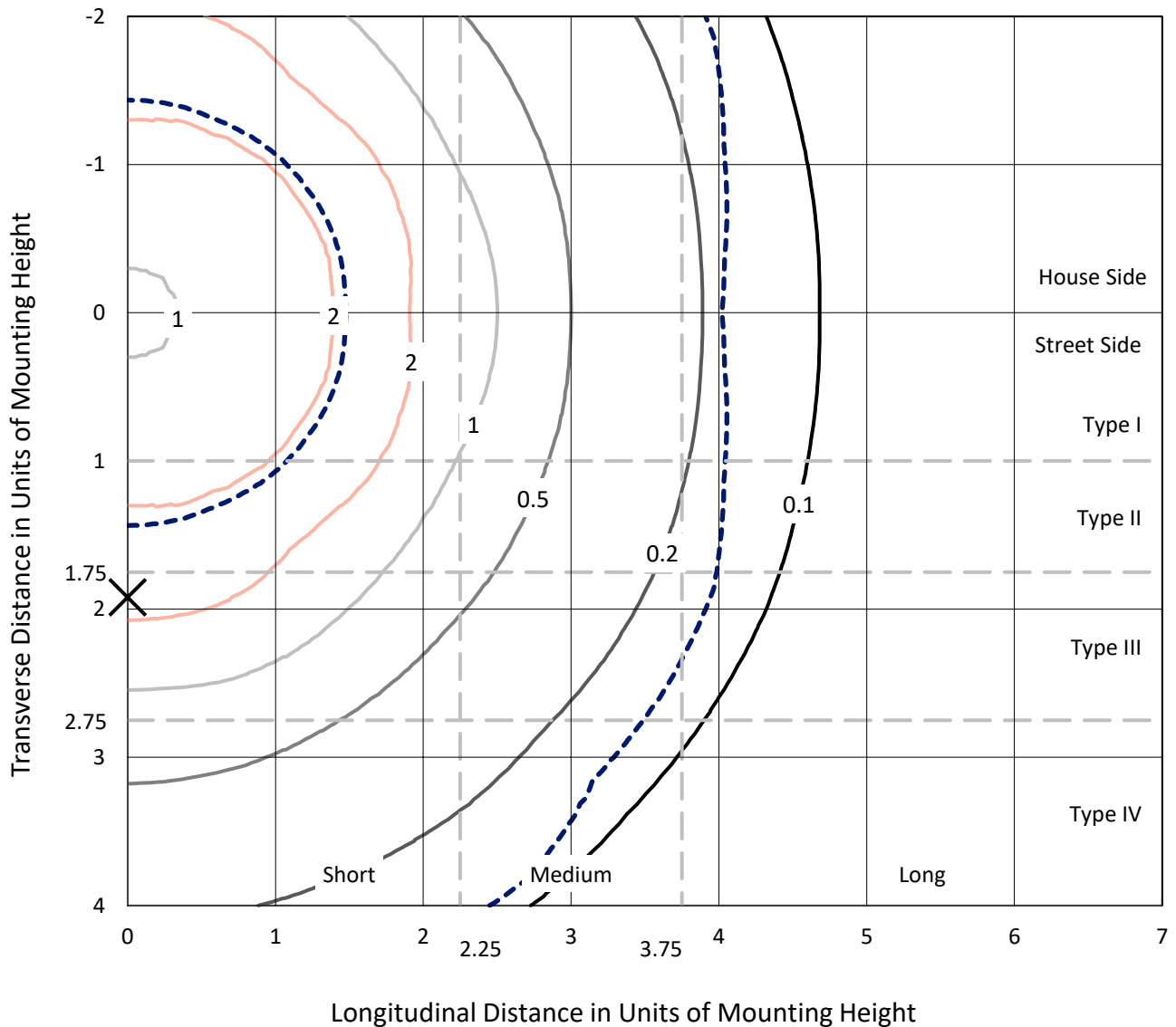
Input Watts (W): 64.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

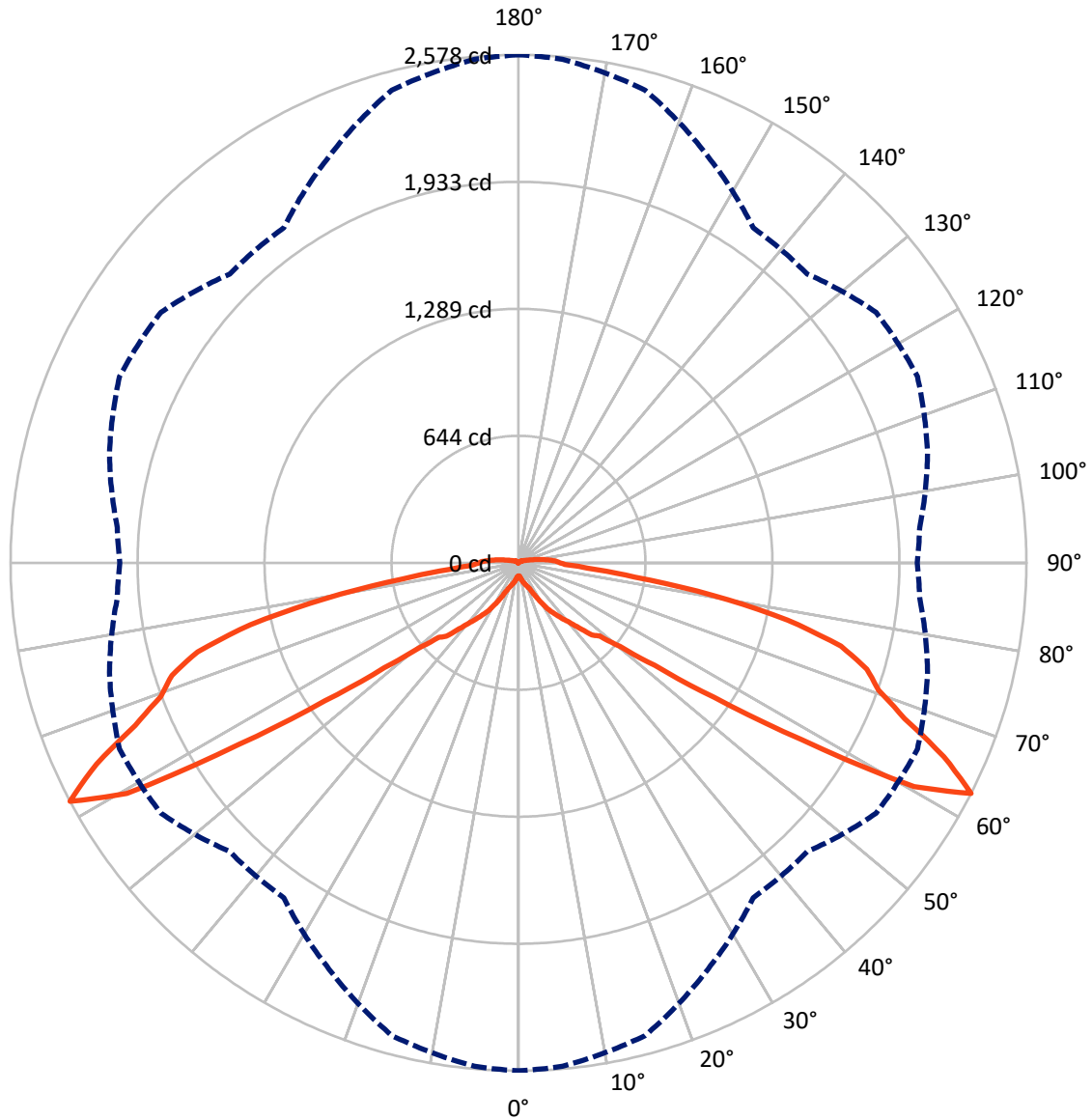
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 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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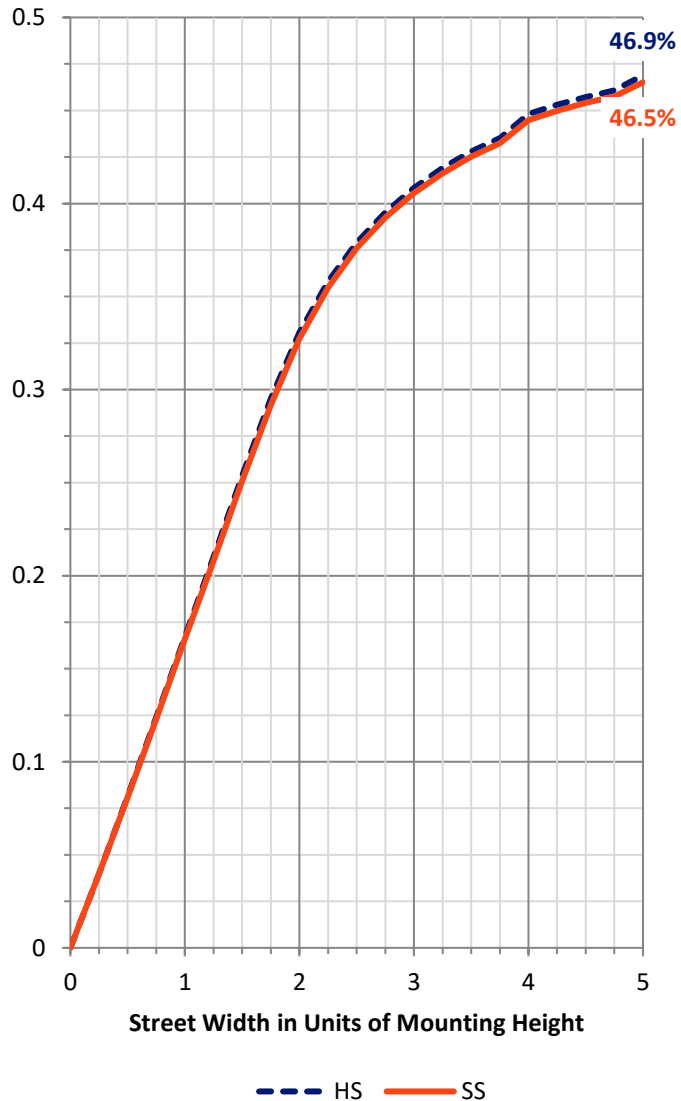
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2906.3 | 116.2 | 3022.5 |
| | % Fixture | 48.1 | 1.9 | 50.0 |
| Street Side | Lumens | 2906.3 | 116.2 | 3022.5 |
| | % Fixture | 48.1 | 1.9 | 50.0 |
| Total | Lumens | 5812.7 | 232.3 | 6045.0 |
| | % Fixture | 96.2 | 3.8 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.2 | 0.1 |
| 10°-20° | 30.4 | 0.5 |
| 20°-30° | 80.4 | 1.3 |
| 30°-40° | 182.8 | 3.0 |
| 40°-50° | 369.8 | 6.1 |
| 50°-60° | 1094.8 | 18.1 |
| 60°-70° | 2056.8 | 34.0 |
| 70°-80° | 1528.8 | 25.3 |
| 80°-90° | 461.5 | 7.6 |
| 90°-100° | 149.8 | 2.5 |
| 100°-110° | 52.5 | 0.9 |
| 110°-120° | 20.3 | 0.3 |
| 120°-130° | 8.0 | 0.1 |
| 130°-140° | 1.6 | 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° | 5812.7 | 96.2 |
| 0°-180° | 6045.0 | 100.0 |

Coefficient of Utilization



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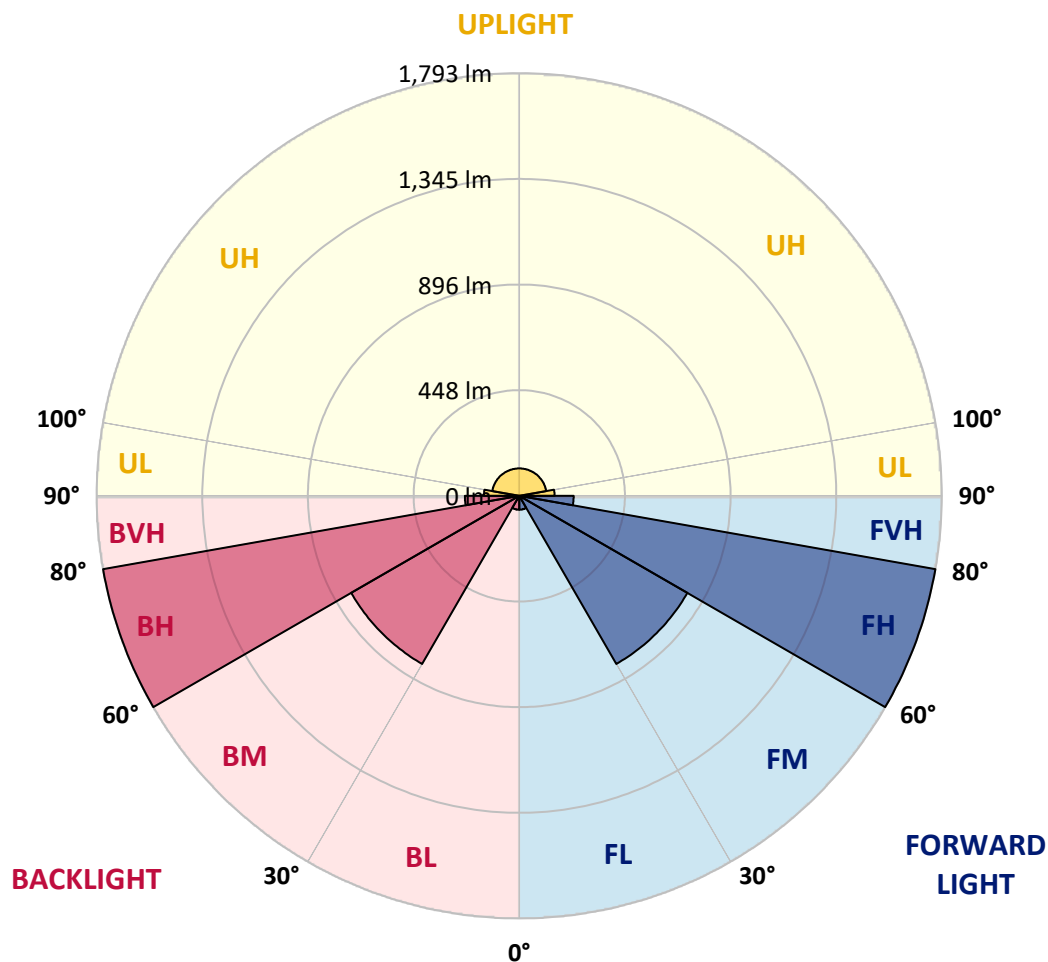
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 59.0 | 1.0 | | | |
| FM (30°-60°) | 823.7 | 13.6 | | | |
| FH (60°-80°) | 1792.8 | 29.7 | | | G1/1800 |
| FVH (80°-90°) | 230.8 | 3.8 | | | G3/500 |
| BL (0°-30°) | 59.0 | 1.0 | B0/110 | | |
| BM (30°-60°) | 823.7 | 13.6 | B1/1000 | | |
| BH (60°-80°) | 1792.8 | 29.7 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 230.8 | 3.8 | | | G3/500 |
| UL (90°-100°) | 149.8 | 2.5 | | U3/500 | |
| UH (100°-180°) | 116.2 | 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° | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| 2.5° | 67.6 | 67.6 | 67.6 | 66.5 | 65.3 | 65.3 | 65.3 | 65.3 | 64.2 | 64.2 | 64.2 |
| 5° | 71.1 | 71.1 | 69.9 | 68.8 | 68.8 | 67.6 | 68.8 | 67.6 | 67.6 | 67.6 | 68.8 |
| 7.5° | 79.1 | 79.1 | 77.9 | 77.9 | 77.9 | 76.8 | 76.8 | 76.8 | 76.8 | 75.6 | 76.8 |
| 10° | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 87.1 | 87.1 | 86.0 | 86.0 | 86.0 | 86.0 |
| 12.5° | 98.6 | 97.4 | 97.4 | 98.6 | 97.4 | 96.3 | 96.3 | 96.3 | 95.1 | 95.1 | 95.1 |
| 15° | 107.7 | 107.7 | 106.6 | 106.6 | 106.6 | 105.4 | 105.4 | 104.3 | 104.3 | 103.2 | 103.2 |
| 17.5° | 116.9 | 116.9 | 115.8 | 114.6 | 114.6 | 114.6 | 113.5 | 113.5 | 112.3 | 112.3 | 112.3 |
| 20° | 128.4 | 127.2 | 126.1 | 124.9 | 123.8 | 123.8 | 123.8 | 123.8 | 122.6 | 121.5 | 121.5 |
| 22.5° | 141.0 | 139.8 | 138.7 | 137.5 | 137.5 | 136.4 | 136.4 | 135.2 | 135.2 | 134.1 | 133.0 |
| 25° | 167.3 | 167.3 | 162.8 | 161.6 | 161.6 | 162.8 | 161.6 | 160.5 | 158.2 | 154.7 | 154.7 |
| 27.5° | 202.9 | 204.0 | 205.2 | 210.9 | 209.7 | 201.7 | 197.1 | 194.8 | 193.7 | 193.7 | 194.8 |
| 30° | 243.0 | 244.1 | 247.6 | 253.3 | 249.9 | 239.5 | 228.1 | 223.5 | 226.9 | 231.5 | 232.7 |
| 32.5° | 285.4 | 285.4 | 278.5 | 270.5 | 262.5 | 255.6 | 252.2 | 249.9 | 248.7 | 245.3 | 245.3 |
| 35° | 318.6 | 312.9 | 291.1 | 264.8 | 256.7 | 261.3 | 275.1 | 279.7 | 262.5 | 246.4 | 244.1 |
| 37.5° | 356.5 | 355.3 | 338.1 | 318.6 | 303.7 | 301.4 | 316.3 | 320.9 | 302.6 | 292.3 | 291.1 |
| 40° | 396.6 | 398.9 | 402.3 | 394.3 | 371.4 | 364.5 | 356.5 | 350.7 | 350.7 | 351.9 | 349.6 |
| 42.5° | 450.4 | 453.9 | 453.9 | 455.0 | 436.7 | 420.6 | 404.6 | 395.4 | 394.3 | 403.4 | 406.9 |
| 45° | 522.6 | 522.6 | 514.6 | 498.6 | 490.6 | 479.1 | 468.8 | 459.6 | 455.0 | 456.2 | 459.6 |
| 47.5° | 554.7 | 557.0 | 550.2 | 527.2 | 521.5 | 510.0 | 495.1 | 491.7 | 494.0 | 497.4 | 498.6 |
| 50° | 667.1 | 661.3 | 614.3 | 566.2 | 549.0 | 560.5 | 582.2 | 588.0 | 566.2 | 544.4 | 538.7 |
| 52.5° | 864.2 | 863.1 | 826.4 | 790.8 | 766.8 | 759.9 | 789.7 | 792.0 | 754.2 | 738.1 | 735.8 |
| 55° | 1205.8 | 1193.2 | 1220.7 | 1237.9 | 1187.4 | 1131.3 | 1110.6 | 1082.0 | 1084.3 | 1116.4 | 1117.5 |
| 57.5° | 1690.6 | 1697.5 | 1728.4 | 1683.7 | 1606.9 | 1565.7 | 1537.0 | 1483.1 | 1484.3 | 1512.9 | 1515.2 |
| 60° | 2306.1 | 2304.9 | 2206.4 | 2034.4 | 1916.4 | 1924.4 | 2003.5 | 2014.9 | 1892.3 | 1813.2 | 1804.1 |
| 62.5° | 2577.7 | 2565.1 | 2483.7 | 2275.1 | 2075.7 | 2072.3 | 2215.5 | 2233.9 | 2149.0 | 2043.6 | 2023.0 |
| 65° | 2372.5 | 2362.2 | 2396.6 | 2325.6 | 2063.1 | 1995.5 | 2039.0 | 2034.4 | 2088.3 | 2136.4 | 2142.2 |
| 67.5° | 2112.4 | 2114.7 | 2197.2 | 2175.4 | 1993.2 | 1878.6 | 1823.5 | 1816.7 | 1917.5 | 2029.8 | 2044.7 |
| 70° | 1938.2 | 1938.2 | 1996.6 | 1908.4 | 1821.2 | 1746.7 | 1689.4 | 1653.9 | 1719.2 | 1737.6 | 1736.4 |
| 72.5° | 1848.8 | 1840.7 | 1799.5 | 1714.7 | 1648.2 | 1582.8 | 1600.0 | 1573.7 | 1542.7 | 1494.6 | 1490.0 |
| 75° | 1689.4 | 1680.3 | 1623.0 | 1582.8 | 1534.7 | 1453.3 | 1468.2 | 1441.9 | 1390.3 | 1346.7 | 1339.9 |
| 77.5° | 1396.0 | 1396.0 | 1359.3 | 1329.5 | 1315.8 | 1245.9 | 1239.0 | 1226.4 | 1174.8 | 1150.7 | 1141.6 |
| 80° | 999.5 | 997.2 | 982.3 | 971.9 | 989.1 | 947.9 | 929.5 | 929.5 | 908.9 | 887.1 | 876.8 |
| 82.5° | 594.9 | 586.8 | 586.8 | 590.3 | 580.0 | 553.6 | 558.2 | 584.5 | 582.2 | 569.6 | 560.5 |
| 85° | 351.9 | 347.3 | 343.8 | 339.3 | 330.1 | 311.8 | 311.8 | 314.0 | 316.3 | 317.5 | 312.9 |
| 87.5° | 235.0 | 233.8 | 233.8 | 233.8 | 223.5 | 210.9 | 216.6 | 220.1 | 217.8 | 216.6 | 215.5 |
| 90° | 205.2 | 206.3 | 205.2 | 200.6 | 191.4 | 179.9 | 182.2 | 186.8 | 184.5 | 184.5 | 183.4 |
| 92.5° | 184.5 | 184.5 | 182.2 | 177.7 | 168.5 | 158.2 | 159.3 | 161.6 | 160.5 | 159.3 | 158.2 |
| 95° | 151.3 | 151.3 | 149.0 | 145.6 | 137.5 | 128.4 | 129.5 | 131.8 | 129.5 | 129.5 | 128.4 |
| 97.5° | 118.1 | 118.1 | 116.9 | 114.6 | 107.7 | 100.9 | 102.0 | 103.2 | 102.0 | 102.0 | 100.9 |
| 100° | 89.4 | 89.4 | 88.3 | 84.8 | 81.4 | 75.6 | 76.8 | 79.1 | 77.9 | 77.9 | 76.8 |
| 102.5° | 66.5 | 66.5 | 65.3 | 64.2 | 59.6 | 56.2 | 57.3 | 57.3 | 57.3 | 56.2 | 56.2 |
| 105° | 51.6 | 51.6 | 51.6 | 49.3 | 47.0 | 43.6 | 43.6 | 43.6 | 43.6 | 42.4 | 42.4 |
| 107.5° | 41.3 | 40.1 | 40.1 | 39.0 | 36.7 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 |
| 110° | 33.2 | 32.1 | 30.9 | 30.9 | 28.7 | 27.5 | 26.4 | 27.5 | 27.5 | 27.5 | 27.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 28.7 | 27.5 | 25.2 | 25.2 | 24.1 | 21.8 | 21.8 | 21.8 | 24.1 | 22.9 | 22.9 |
| 115° | 25.2 | 24.1 | 20.6 | 20.6 | 19.5 | 18.3 | 18.3 | 18.3 | 20.6 | 18.3 | 18.3 |
| 117.5° | 21.8 | 20.6 | 17.2 | 17.2 | 16.0 | 14.9 | 14.9 | 14.9 | 17.2 | 14.9 | 14.9 |
| 120° | 16.0 | 16.0 | 13.8 | 13.8 | 13.8 | 12.6 | 12.6 | 12.6 | 13.8 | 12.6 | 12.6 |
| 122.5° | 12.6 | 12.6 | 11.5 | 11.5 | 11.5 | 10.3 | 10.3 | 10.3 | 10.3 | 9.2 | 9.2 |
| 125° | 12.6 | 14.9 | 9.2 | 9.2 | 8.0 | 8.0 | 8.0 | 6.9 | 8.0 | 6.9 | 6.9 |
| 127.5° | 13.8 | 12.6 | 6.9 | 6.9 | 6.9 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 130° | 4.6 | 6.9 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 3.4 | 3.4 | 3.4 |
| 132.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 135° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 137.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 172.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 177.5° | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 180° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |

(END OF REPORT)