

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631590

Luminaire Tested: GWS-SA2B-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5176.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

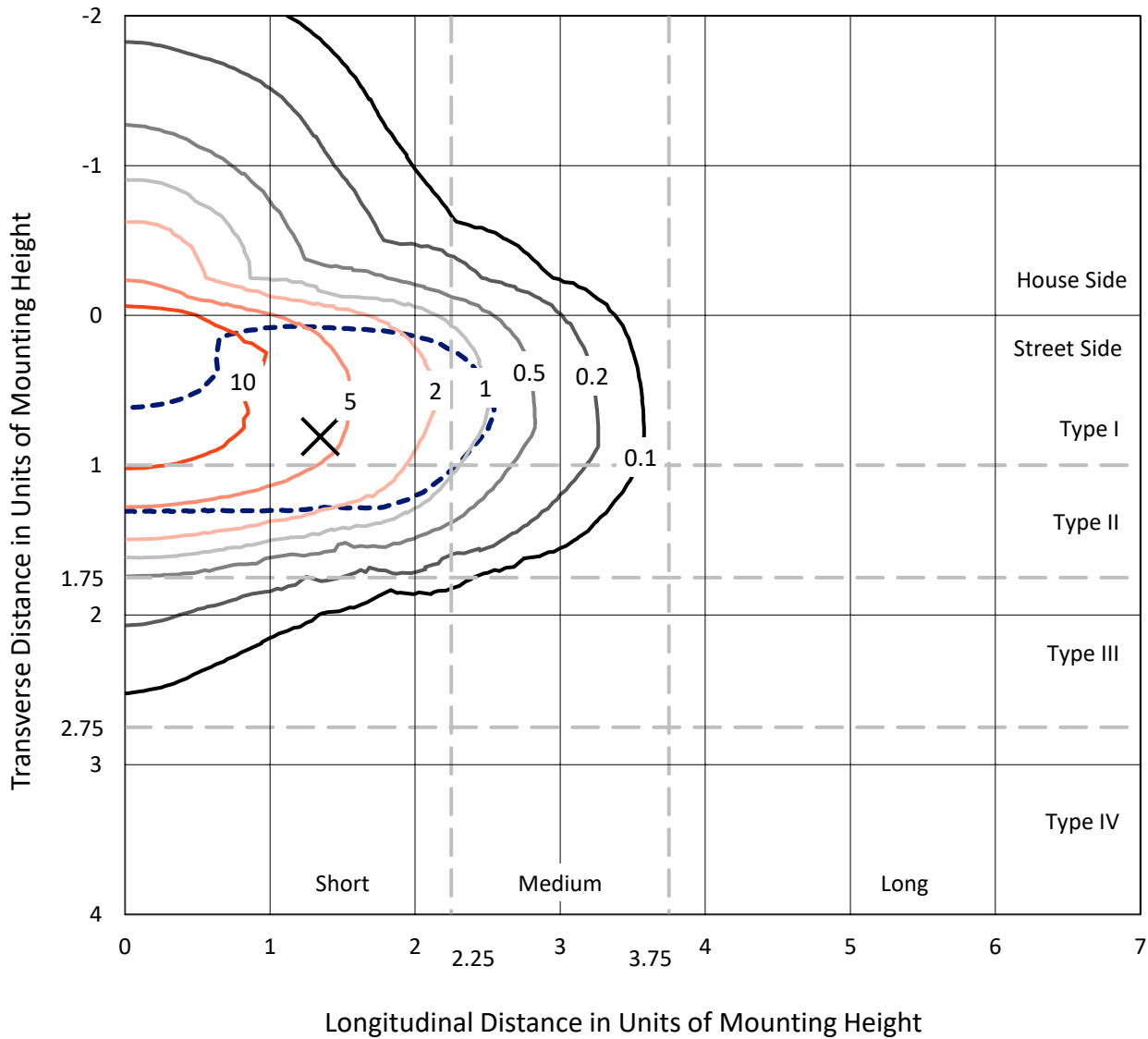
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

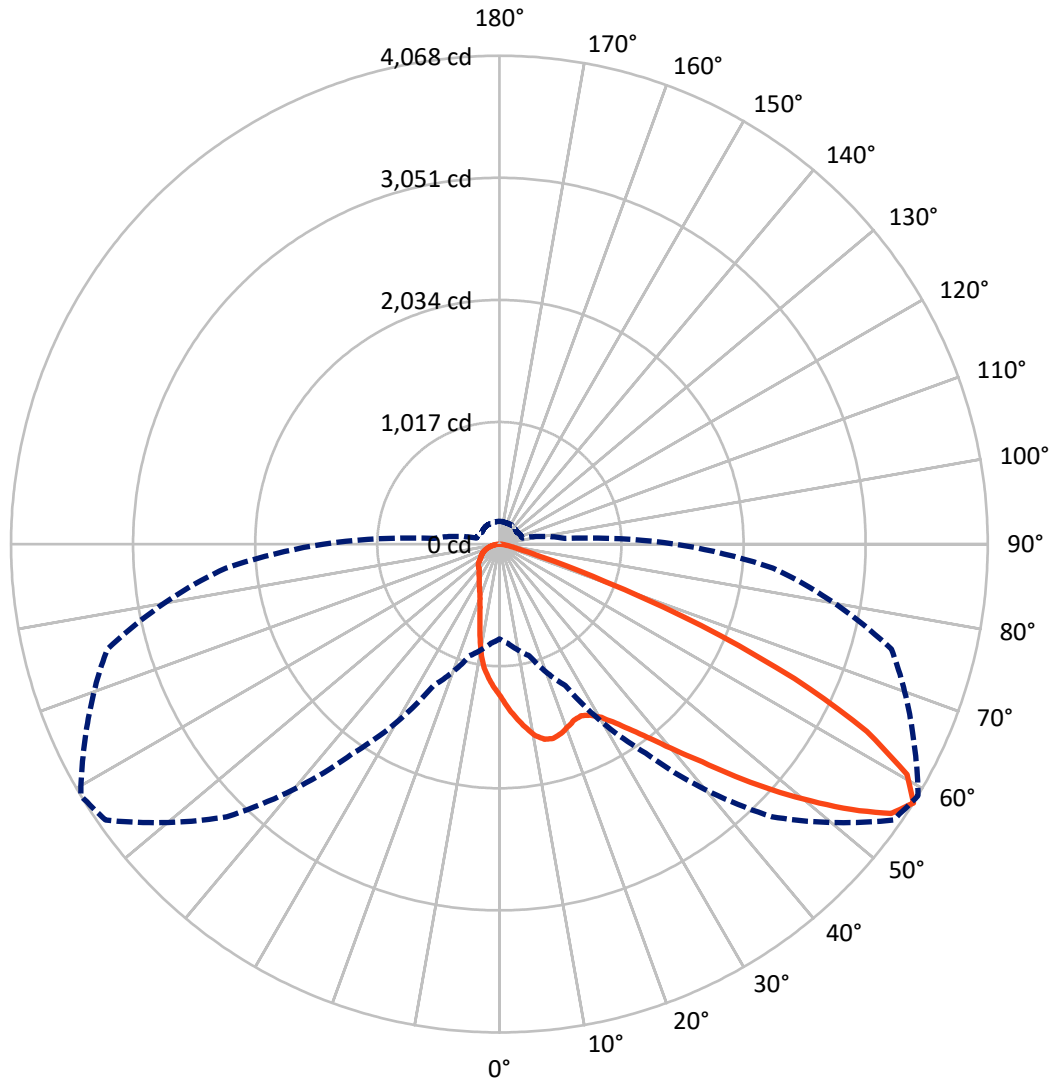
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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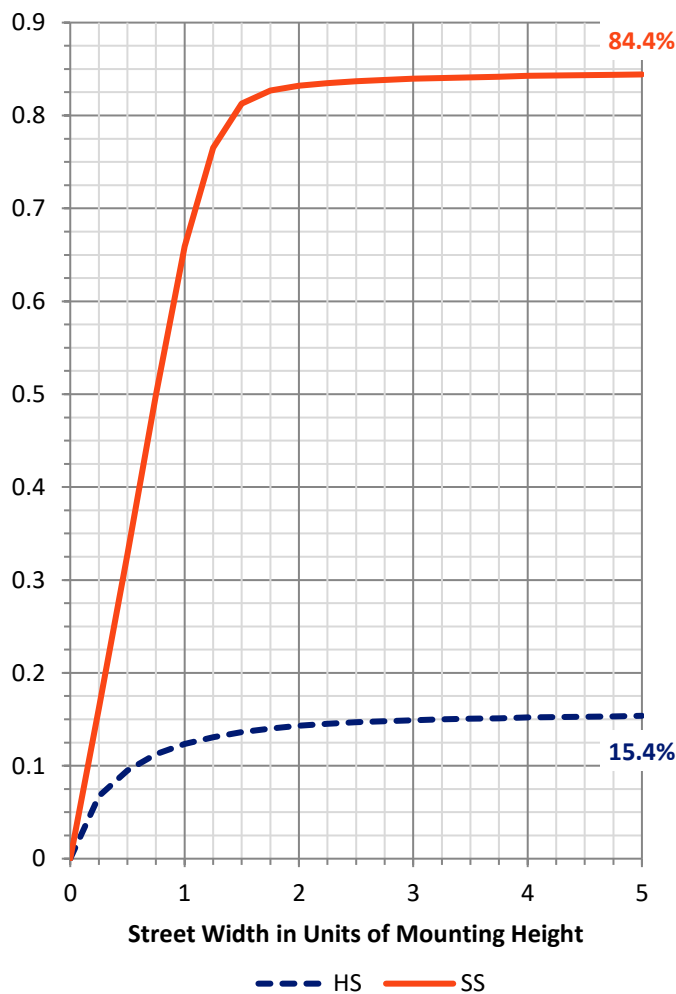
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 803.4 | 0.0 | 803.4 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 4373.1 | 0.0 | 4373.1 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 5176.5 | 0.0 | 5176.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.0 | 2.3 |
| 10°-20° | 299.0 | 5.8 |
| 20°-30° | 484.7 | 9.4 |
| 30°-40° | 779.6 | 15.1 |
| 40°-50° | 1210.7 | 23.4 |
| 50°-60° | 1304.1 | 25.2 |
| 60°-70° | 756.8 | 14.6 |
| 70°-80° | 197.6 | 3.8 |
| 80°-90° | 26.0 | 0.5 |
| 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° | 5176.5 | 100.0 |
| 0°-180° | 5176.5 | 100.0 |

Coefficient of Utilization



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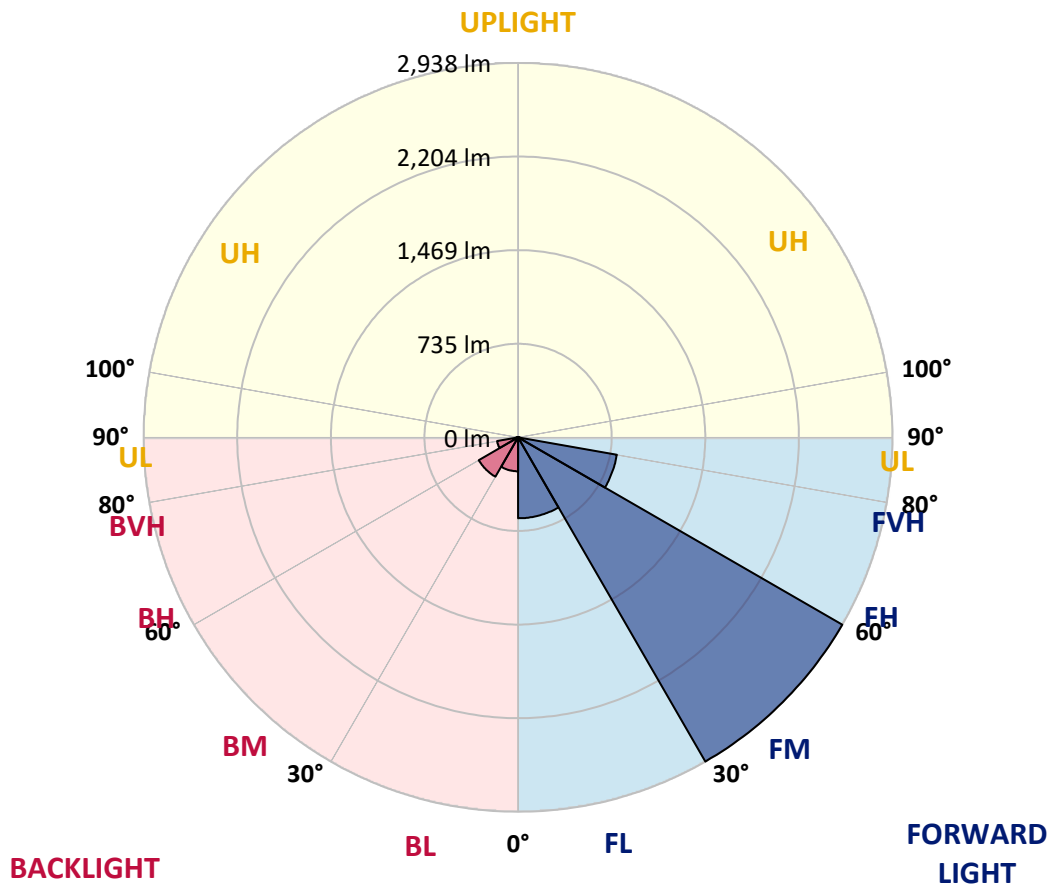
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 635.1 | 12.3 | | | |
| FM (30°-60°) | 2938.2 | 56.8 | | | |
| FH (60°-80°) | 787.3 | 15.2 | | | G1/1800 |
| FVH (80°-90°) | 12.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 266.5 | 5.1 | B1/500 | | |
| BM (30°-60°) | 356.2 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 167.1 | 3.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 |
| 2.5° | 1441.3 | 1429.2 | 1437.6 | 1422.7 | 1416.5 | 1400.1 | 1379.0 | 1364.7 | 1342.9 | 1314.5 | 1289.7 |
| 5° | 1584.5 | 1576.1 | 1577.9 | 1561.9 | 1547.7 | 1520.4 | 1477.0 | 1452.9 | 1415.8 | 1358.6 | 1305.3 |
| 7.5° | 1580.1 | 1590.0 | 1595.4 | 1609.3 | 1613.3 | 1610.7 | 1571.7 | 1538.2 | 1497.4 | 1411.4 | 1331.2 |
| 10° | 1416.5 | 1435.1 | 1451.8 | 1499.2 | 1556.8 | 1629.7 | 1638.8 | 1618.7 | 1577.6 | 1478.8 | 1362.2 |
| 12.5° | 1238.3 | 1252.5 | 1267.4 | 1324.3 | 1412.5 | 1558.3 | 1657.0 | 1669.4 | 1653.0 | 1545.5 | 1397.2 |
| 15° | 1150.8 | 1157.4 | 1171.6 | 1209.1 | 1279.5 | 1441.3 | 1625.3 | 1679.6 | 1709.1 | 1616.2 | 1436.5 |
| 17.5° | 1147.2 | 1150.1 | 1157.0 | 1177.1 | 1225.9 | 1350.9 | 1568.1 | 1659.2 | 1753.2 | 1690.9 | 1482.5 |
| 20° | 1222.6 | 1215.0 | 1210.6 | 1210.2 | 1234.3 | 1320.7 | 1512.7 | 1626.4 | 1774.0 | 1767.4 | 1531.7 |
| 22.5° | 1327.2 | 1329.8 | 1320.3 | 1297.0 | 1294.1 | 1342.2 | 1485.0 | 1593.2 | 1780.2 | 1835.2 | 1577.2 |
| 25° | 1475.5 | 1488.3 | 1460.2 | 1415.8 | 1393.9 | 1404.5 | 1502.1 | 1583.0 | 1779.5 | 1891.7 | 1605.6 |
| 27.5° | 1648.6 | 1658.5 | 1630.0 | 1571.7 | 1526.5 | 1501.0 | 1553.2 | 1613.3 | 1785.7 | 1940.5 | 1622.8 |
| 30° | 1845.8 | 1849.1 | 1810.1 | 1748.8 | 1682.9 | 1628.2 | 1638.1 | 1675.6 | 1817.4 | 2004.7 | 1642.8 |
| 32.5° | 2086.7 | 2100.5 | 2041.5 | 1944.5 | 1852.3 | 1782.4 | 1752.1 | 1776.2 | 1885.9 | 2080.5 | 1673.8 |
| 35° | 2392.4 | 2397.1 | 2322.1 | 2183.2 | 2052.8 | 1955.8 | 1892.4 | 1905.2 | 1990.1 | 2186.5 | 1720.4 |
| 37.5° | 2680.7 | 2685.4 | 2605.6 | 2476.6 | 2290.0 | 2157.4 | 2065.5 | 2059.7 | 2123.5 | 2336.3 | 1796.6 |
| 40° | 2863.6 | 2877.1 | 2841.4 | 2760.5 | 2582.3 | 2403.3 | 2278.7 | 2258.7 | 2298.4 | 2519.6 | 1902.6 |
| 42.5° | 2962.0 | 2967.8 | 2967.1 | 2977.7 | 2871.6 | 2693.8 | 2519.2 | 2479.1 | 2505.7 | 2717.5 | 2009.8 |
| 45° | 2962.7 | 2977.3 | 3016.3 | 3118.0 | 3122.7 | 3011.9 | 2823.1 | 2760.5 | 2736.1 | 2916.8 | 2121.6 |
| 47.5° | 2830.1 | 2845.7 | 2952.9 | 3152.9 | 3300.5 | 3325.7 | 3187.2 | 3061.5 | 2958.7 | 3088.4 | 2213.5 |
| 50° | 2428.5 | 2467.8 | 2671.9 | 3025.8 | 3335.5 | 3577.1 | 3534.5 | 3363.9 | 3156.6 | 3221.1 | 2271.1 |
| 52.5° | 2079.7 | 2078.3 | 2204.0 | 2666.5 | 3189.4 | 3687.9 | 3870.5 | 3675.2 | 3352.3 | 3305.3 | 2285.6 |
| 55° | 1522.9 | 1531.3 | 1659.9 | 2039.3 | 2799.5 | 3580.8 | 4055.2 | 3961.6 | 3576.8 | 3350.1 | 2279.8 |
| 57.5° | 789.7 | 831.2 | 963.2 | 1301.3 | 2127.1 | 3212.0 | 4006.1 | 4068.4 | 3804.9 | 3381.8 | 2287.5 |
| 60° | 399.0 | 391.0 | 438.4 | 621.3 | 1232.5 | 2508.7 | 3702.9 | 3901.5 | 3846.1 | 3406.6 | 2292.2 |
| 62.5° | 266.4 | 264.2 | 251.1 | 287.9 | 503.6 | 1485.7 | 3156.6 | 3435.0 | 3560.0 | 3348.3 | 2231.7 |
| 65° | 230.7 | 226.3 | 202.3 | 200.8 | 244.5 | 616.2 | 2313.7 | 2700.3 | 2942.3 | 3089.2 | 2087.0 |
| 67.5° | 207.7 | 201.2 | 176.7 | 164.7 | 175.6 | 270.8 | 1303.9 | 1811.2 | 2172.7 | 2612.5 | 1770.0 |
| 70° | 185.5 | 182.2 | 157.8 | 140.3 | 139.2 | 165.1 | 480.3 | 934.7 | 1329.4 | 1782.4 | 1294.1 |
| 72.5° | 166.2 | 160.3 | 139.6 | 122.8 | 114.4 | 117.0 | 208.4 | 360.0 | 688.0 | 1111.8 | 774.0 |
| 75° | 143.9 | 139.6 | 121.4 | 104.6 | 94.4 | 85.6 | 127.2 | 166.5 | 313.8 | 528.4 | 365.5 |
| 77.5° | 111.1 | 108.2 | 95.8 | 83.1 | 77.3 | 63.8 | 77.3 | 105.0 | 145.0 | 222.7 | 190.2 |
| 80° | 64.5 | 66.3 | 71.4 | 64.9 | 56.8 | 45.6 | 50.3 | 60.5 | 87.1 | 120.6 | 107.9 |
| 82.5° | 32.4 | 34.6 | 46.3 | 37.5 | 33.9 | 26.6 | 29.9 | 35.7 | 45.6 | 66.7 | 42.3 |
| 85° | 2.6 | 2.6 | 8.4 | 9.5 | 11.7 | 9.5 | 12.0 | 14.6 | 20.8 | 26.6 | 14.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.8 | 3.3 | 6.2 | 4.0 |
| 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° | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 | 1270.7 |
| 2.5° | 1272.9 | 1254.3 | 1232.1 | 1213.9 | 1185.8 | 1170.9 | 1151.9 | 1128.6 | 1119.1 | 1114.8 | 1112.2 |
| 5° | 1275.5 | 1242.7 | 1195.3 | 1151.6 | 1103.1 | 1064.8 | 1022.2 | 977.7 | 952.2 | 946.0 | 941.7 |
| 7.5° | 1284.9 | 1239.0 | 1163.6 | 1091.4 | 1001.4 | 918.0 | 836.7 | 756.2 | 715.0 | 699.3 | 697.9 |
| 10° | 1298.1 | 1237.6 | 1131.5 | 1011.6 | 859.7 | 727.7 | 632.6 | 569.6 | 543.0 | 534.2 | 531.3 |
| 12.5° | 1314.5 | 1236.5 | 1089.2 | 900.8 | 696.0 | 571.4 | 517.1 | 506.9 | 510.6 | 509.8 | 509.8 |
| 15° | 1335.2 | 1237.9 | 1038.2 | 775.5 | 563.0 | 496.0 | 497.1 | 509.1 | 520.4 | 522.2 | 522.2 |
| 17.5° | 1357.8 | 1236.5 | 964.3 | 649.8 | 483.2 | 478.1 | 494.9 | 511.6 | 521.8 | 523.3 | 523.3 |
| 20° | 1382.2 | 1229.5 | 871.0 | 531.3 | 448.2 | 466.8 | 485.0 | 498.2 | 504.4 | 505.8 | 505.8 |
| 22.5° | 1396.8 | 1209.9 | 769.7 | 449.7 | 426.0 | 449.0 | 461.0 | 474.5 | 475.2 | 463.5 | 463.2 |
| 25° | 1394.6 | 1173.1 | 654.1 | 397.2 | 402.3 | 422.4 | 437.7 | 428.2 | 416.5 | 410.0 | 408.9 |
| 27.5° | 1380.8 | 1117.7 | 536.4 | 357.5 | 374.3 | 396.9 | 392.1 | 384.1 | 381.2 | 373.9 | 373.2 |
| 30° | 1363.3 | 1049.5 | 430.7 | 326.5 | 345.1 | 365.9 | 358.6 | 357.9 | 354.9 | 346.9 | 346.9 |
| 32.5° | 1346.5 | 979.2 | 350.9 | 303.6 | 326.5 | 328.0 | 338.2 | 338.9 | 337.5 | 323.6 | 322.1 |
| 35° | 1341.8 | 908.9 | 297.0 | 285.3 | 308.3 | 307.6 | 322.1 | 321.8 | 296.6 | 277.3 | 277.0 |
| 37.5° | 1356.0 | 837.4 | 264.9 | 270.4 | 283.2 | 292.6 | 304.3 | 283.2 | 274.8 | 263.1 | 262.4 |
| 40° | 1386.2 | 771.5 | 248.5 | 261.7 | 267.1 | 281.0 | 262.7 | 264.2 | 262.0 | 253.3 | 252.2 |
| 42.5° | 1426.3 | 715.4 | 239.4 | 258.7 | 258.0 | 261.7 | 241.6 | 247.4 | 250.7 | 244.2 | 243.1 |
| 45° | 1465.0 | 666.5 | 234.7 | 247.8 | 251.4 | 230.3 | 226.3 | 231.8 | 236.9 | 234.3 | 233.2 |
| 47.5° | 1493.4 | 624.2 | 232.1 | 232.9 | 243.1 | 219.7 | 213.2 | 215.7 | 221.9 | 223.0 | 222.7 |
| 50° | 1502.1 | 588.2 | 229.2 | 220.5 | 218.3 | 209.2 | 204.1 | 203.3 | 210.6 | 215.7 | 216.5 |
| 52.5° | 1485.4 | 556.1 | 221.6 | 209.5 | 199.0 | 200.4 | 198.6 | 195.0 | 202.3 | 209.2 | 209.9 |
| 55° | 1460.6 | 537.9 | 209.5 | 199.0 | 186.6 | 192.4 | 193.1 | 189.9 | 194.6 | 199.3 | 199.3 |
| 57.5° | 1462.4 | 548.4 | 197.9 | 189.1 | 175.6 | 183.3 | 187.3 | 185.9 | 185.9 | 189.5 | 189.9 |
| 60° | 1474.4 | 563.8 | 190.2 | 176.7 | 164.7 | 172.7 | 181.8 | 180.4 | 177.1 | 181.8 | 181.8 |
| 62.5° | 1439.8 | 543.3 | 185.1 | 164.7 | 153.1 | 162.5 | 173.5 | 172.7 | 169.1 | 176.7 | 177.5 |
| 65° | 1337.8 | 488.7 | 179.3 | 149.8 | 141.4 | 152.3 | 161.8 | 164.4 | 161.1 | 171.3 | 173.1 |
| 67.5° | 1121.3 | 411.1 | 168.0 | 135.6 | 129.7 | 139.9 | 149.0 | 152.7 | 150.1 | 162.2 | 163.6 |
| 70° | 836.0 | 332.7 | 150.1 | 119.9 | 115.5 | 124.6 | 133.0 | 134.5 | 134.8 | 149.0 | 150.5 |
| 72.5° | 533.1 | 258.7 | 126.5 | 102.4 | 99.1 | 106.0 | 112.2 | 118.1 | 120.6 | 134.1 | 133.7 |
| 75° | 297.4 | 192.4 | 101.7 | 86.7 | 80.9 | 86.4 | 93.7 | 100.6 | 107.9 | 127.5 | 129.7 |
| 77.5° | 171.3 | 135.2 | 80.5 | 69.6 | 62.7 | 68.5 | 74.7 | 84.5 | 106.4 | 123.5 | 121.4 |
| 80° | 96.6 | 87.8 | 60.9 | 51.0 | 46.6 | 51.0 | 55.8 | 74.3 | 83.8 | 91.1 | 92.2 |
| 82.5° | 45.2 | 49.2 | 41.5 | 31.3 | 31.3 | 34.3 | 38.6 | 57.6 | 63.4 | 51.7 | 45.2 |
| 85° | 16.4 | 22.2 | 20.4 | 16.0 | 14.2 | 13.8 | 24.1 | 32.8 | 20.4 | 18.2 | 15.7 |
| 87.5° | 4.4 | 6.2 | 5.8 | 4.0 | 2.2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)