

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: P200018

Luminaire Tested: **GWC-AF-02-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T2-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12934.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

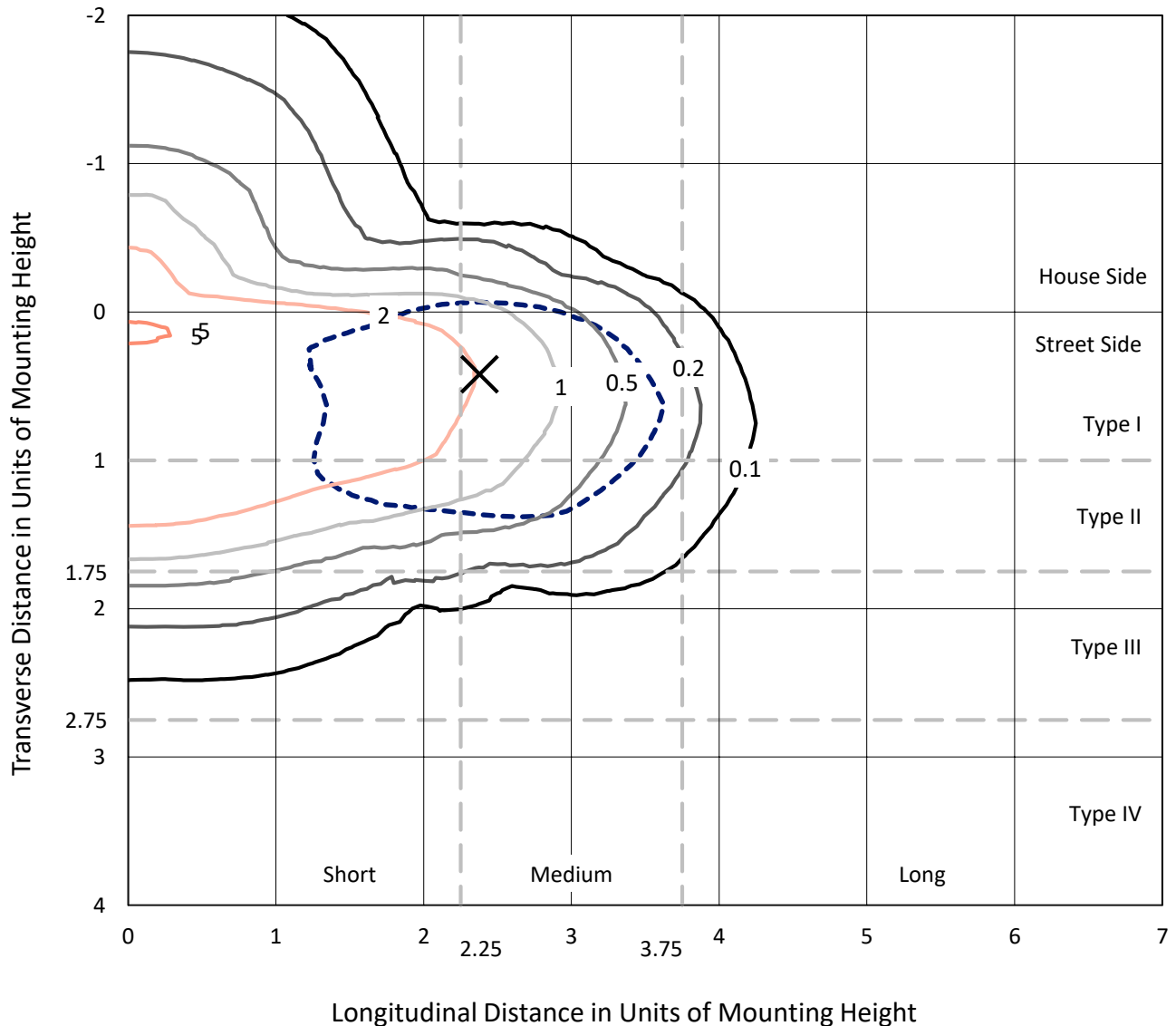
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

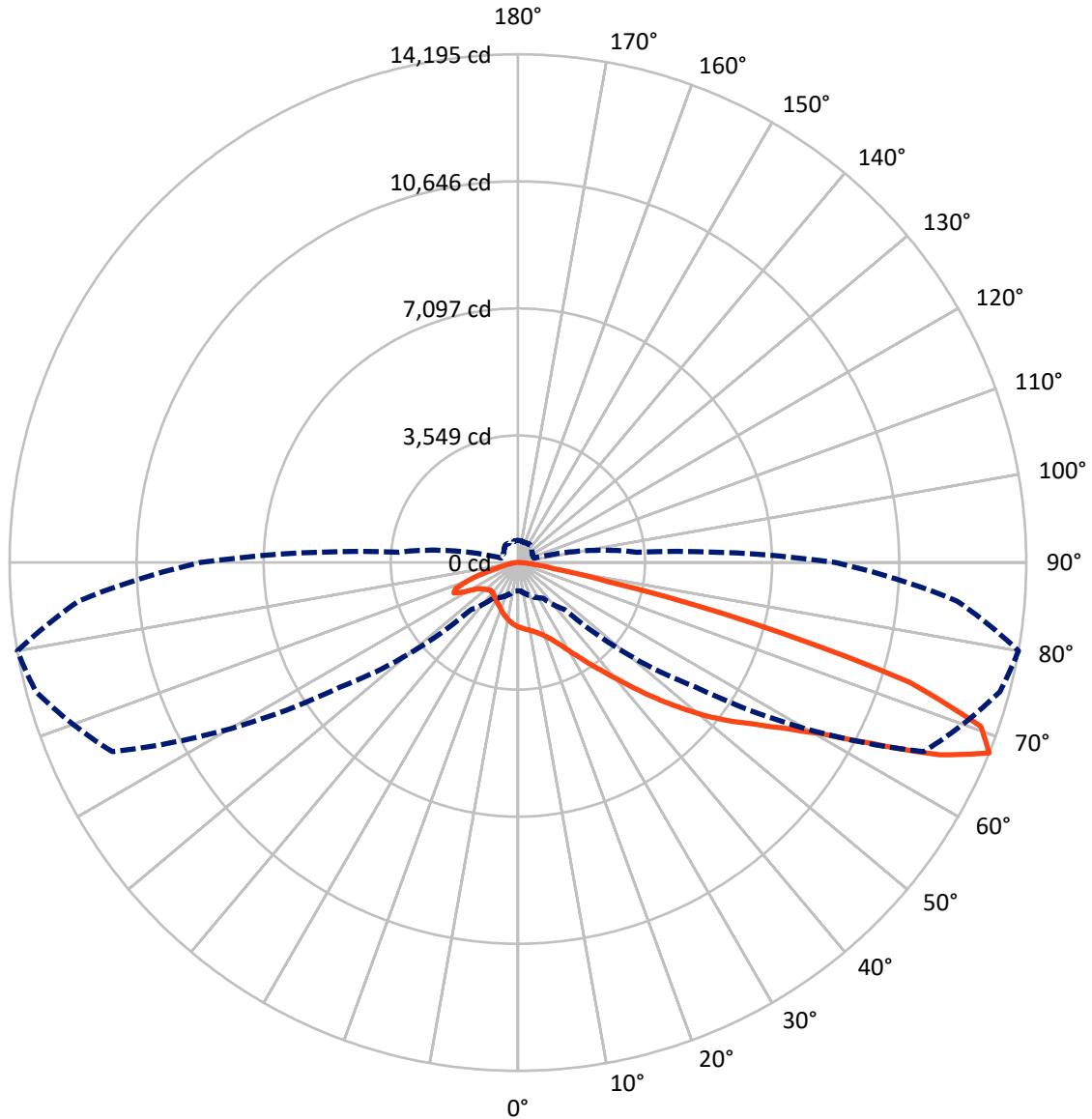
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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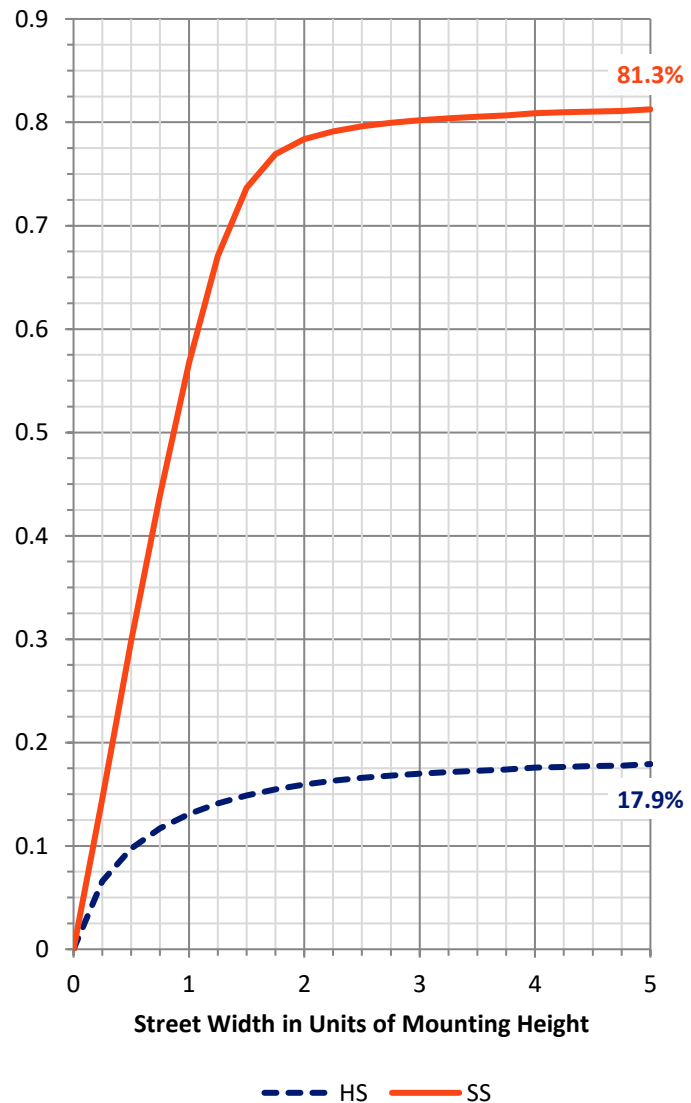
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2382.0 | 0.0 | 2382.0 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 10552.1 | 0.0 | 10552.1 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 12934.1 | 0.0 | 12934.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.8 | 1.3 |
| 10°-20° | 477.5 | 3.7 |
| 20°-30° | 790.4 | 6.1 |
| 30°-40° | 1292.8 | 10.0 |
| 40°-50° | 2087.4 | 16.1 |
| 50°-60° | 3013.6 | 23.3 |
| 60°-70° | 3325.7 | 25.7 |
| 70°-80° | 1532.9 | 11.9 |
| 80°-90° | 247.9 | 1.9 |
| 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° | 12934.1 | 100.0 |
| 0°-180° | 12934.1 | 100.0 |



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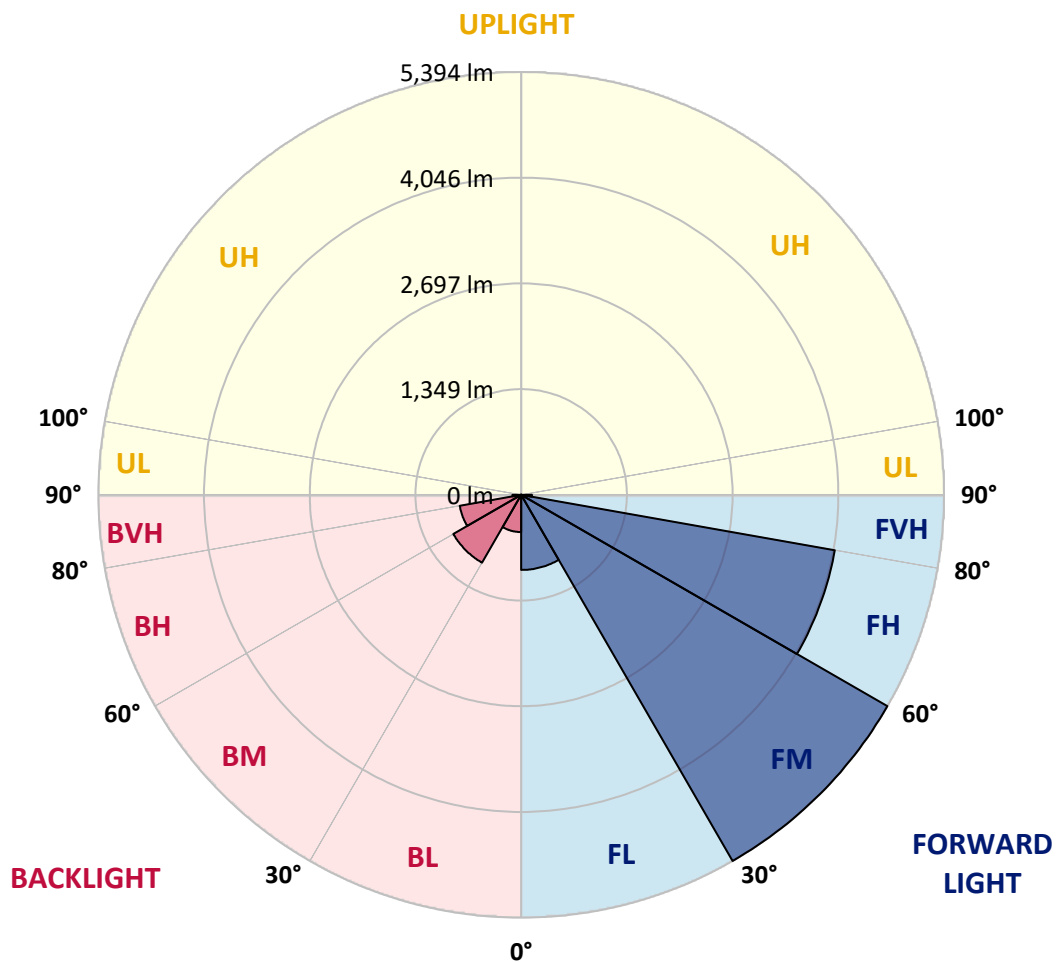
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 958.4 | 7.4 | | | |
| FM (30°-60°) | 5394.5 | 41.7 | | | |
| FH (60°-80°) | 4062.9 | 31.4 | | | G2/5000 |
| FVH (80°-90°) | 136.3 | 1.1 | | | G2/225 |
| BL (0°-30°) | 475.2 | 3.7 | B1/500 | | |
| BM (30°-60°) | 999.4 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 795.7 | 6.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 111.6 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 |
| 2.5° | 1965.7 | 1954.2 | 1956.1 | 1952.9 | 1943.4 | 1926.8 | 1909.0 | 1876.5 | 1842.7 | 1824.9 | 1811.0 |
| 5° | 2129.9 | 2126.7 | 2122.3 | 2112.1 | 2088.0 | 2053.5 | 2010.9 | 1953.5 | 1891.9 | 1859.4 | 1828.1 |
| 7.5° | 2252.8 | 2251.0 | 2245.2 | 2238.8 | 2215.2 | 2173.9 | 2109.6 | 2028.1 | 1938.3 | 1893.7 | 1845.3 |
| 10° | 2263.0 | 2266.2 | 2270.6 | 2287.9 | 2291.0 | 2268.8 | 2203.2 | 2104.5 | 1986.7 | 1929.4 | 1867.6 |
| 12.5° | 2176.5 | 2183.4 | 2200.6 | 2244.5 | 2291.0 | 2318.5 | 2284.7 | 2184.7 | 2043.3 | 1974.0 | 1895.6 |
| 15° | 2061.8 | 2065.6 | 2086.7 | 2147.2 | 2230.5 | 2315.2 | 2347.1 | 2273.2 | 2116.6 | 2031.2 | 1937.6 |
| 17.5° | 2012.8 | 2014.7 | 2029.4 | 2069.5 | 2147.2 | 2268.1 | 2382.1 | 2369.4 | 2206.4 | 2102.5 | 1989.2 |
| 20° | 1988.0 | 1992.5 | 2013.4 | 2052.9 | 2101.9 | 2207.6 | 2387.2 | 2473.2 | 2313.3 | 2191.7 | 2054.2 |
| 22.5° | 2058.7 | 2056.7 | 2064.4 | 2084.1 | 2125.5 | 2189.1 | 2383.4 | 2580.1 | 2449.6 | 2306.4 | 2138.9 |
| 25° | 2223.5 | 2230.5 | 2217.2 | 2194.9 | 2208.2 | 2252.8 | 2403.7 | 2696.0 | 2620.2 | 2453.4 | 2249.6 |
| 27.5° | 2458.6 | 2451.6 | 2431.8 | 2379.5 | 2352.2 | 2371.3 | 2471.2 | 2820.8 | 2832.3 | 2647.1 | 2396.2 |
| 30° | 2692.8 | 2687.1 | 2668.0 | 2604.3 | 2548.3 | 2532.4 | 2602.4 | 2964.1 | 3085.1 | 2879.4 | 2575.7 |
| 32.5° | 2936.2 | 2929.7 | 2911.9 | 2848.2 | 2780.7 | 2743.8 | 2789.0 | 3129.6 | 3383.1 | 3157.0 | 2787.1 |
| 35° | 3236.0 | 3223.9 | 3186.3 | 3097.8 | 3031.6 | 3003.0 | 3024.0 | 3337.9 | 3727.0 | 3485.6 | 3043.8 |
| 37.5° | 3518.0 | 3536.5 | 3498.4 | 3376.1 | 3290.2 | 3280.0 | 3303.5 | 3591.9 | 4097.5 | 3853.0 | 3338.5 |
| 40° | 3801.4 | 3804.6 | 3770.2 | 3670.2 | 3581.7 | 3565.2 | 3624.4 | 3900.1 | 4535.1 | 4292.4 | 3697.0 |
| 42.5° | 4094.4 | 4100.7 | 4042.8 | 3950.4 | 3885.5 | 3888.6 | 3956.2 | 4261.2 | 5036.8 | 4810.0 | 4109.6 |
| 45° | 4441.4 | 4450.9 | 4387.2 | 4266.2 | 4207.0 | 4326.1 | 4298.2 | 4666.1 | 5586.9 | 5398.4 | 4583.3 |
| 47.5° | 4804.3 | 4819.0 | 4770.6 | 4657.1 | 4583.3 | 4747.0 | 4640.0 | 5115.1 | 6179.0 | 6029.5 | 5103.6 |
| 50° | 5002.3 | 5023.4 | 5070.5 | 5062.2 | 5046.2 | 5019.0 | 5021.4 | 5596.5 | 6789.7 | 6686.5 | 5638.5 |
| 52.5° | 4896.0 | 4895.4 | 5067.3 | 5276.1 | 5499.0 | 5515.6 | 5486.2 | 6104.0 | 7360.2 | 7329.1 | 6142.1 |
| 55° | 4409.4 | 4442.6 | 4703.1 | 5107.5 | 5716.1 | 6096.3 | 6182.9 | 6685.2 | 7920.6 | 7957.0 | 6653.5 |
| 57.5° | 3599.5 | 3627.0 | 3978.4 | 4542.0 | 5423.2 | 6441.4 | 7173.6 | 7530.2 | 8547.2 | 8716.6 | 7334.1 |
| 60° | 2441.3 | 2474.4 | 2847.0 | 3523.8 | 4635.0 | 6249.1 | 8116.8 | 9038.2 | 9297.3 | 9682.5 | 8289.3 |
| 62.5° | 1434.6 | 1464.5 | 1768.3 | 2222.9 | 3263.3 | 5355.8 | 8530.6 | 11183.3 | 10488.7 | 11140.1 | 9746.2 |
| 65° | 987.6 | 1008.0 | 1155.8 | 1383.7 | 1875.2 | 3607.2 | 8017.3 | 12664.5 | 12321.8 | 12945.9 | 11435.5 |
| 67.5° | 794.7 | 792.1 | 909.2 | 1064.6 | 1207.4 | 1859.9 | 6062.6 | 12497.0 | 13934.2 | 14194.5 | 12312.3 |
| 70° | 654.6 | 652.1 | 731.6 | 860.3 | 964.6 | 1047.5 | 3302.3 | 10545.9 | 13605.5 | 13711.3 | 11504.9 |
| 72.5° | 547.6 | 550.1 | 601.2 | 696.6 | 791.5 | 789.0 | 1451.2 | 7418.8 | 10703.2 | 11434.2 | 9171.2 |
| 75° | 462.2 | 463.6 | 497.3 | 564.8 | 642.5 | 635.5 | 787.0 | 4019.2 | 6221.8 | 6730.5 | 5083.9 |
| 77.5° | 393.6 | 394.8 | 416.4 | 454.0 | 509.3 | 506.9 | 574.3 | 1736.4 | 2595.5 | 2563.5 | 1739.0 |
| 80° | 350.8 | 350.8 | 361.0 | 368.1 | 398.6 | 387.1 | 426.0 | 834.2 | 1097.2 | 1013.1 | 694.1 |
| 82.5° | 275.2 | 276.3 | 338.7 | 336.2 | 313.9 | 299.3 | 299.3 | 491.5 | 581.4 | 537.4 | 406.2 |
| 85° | 154.7 | 154.0 | 218.4 | 263.7 | 276.3 | 210.8 | 208.9 | 275.2 | 316.5 | 278.9 | 196.7 |
| 87.5° | 66.2 | 67.5 | 101.3 | 117.1 | 156.7 | 131.2 | 129.3 | 142.0 | 161.0 | 139.5 | 91.0 |
| 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° | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 | 1796.9 |
| 2.5° | 1797.6 | 1781.0 | 1744.8 | 1699.5 | 1658.8 | 1632.0 | 1607.9 | 1572.8 | 1574.7 | 1550.5 | 1532.7 |
| 5° | 1796.3 | 1762.0 | 1677.9 | 1577.9 | 1481.8 | 1412.2 | 1360.1 | 1313.0 | 1301.5 | 1279.2 | 1265.9 |
| 7.5° | 1797.6 | 1741.5 | 1600.2 | 1440.4 | 1321.3 | 1233.4 | 1188.8 | 1163.9 | 1158.2 | 1150.6 | 1151.3 |
| 10° | 1802.0 | 1723.0 | 1514.9 | 1311.7 | 1186.9 | 1128.9 | 1118.2 | 1125.8 | 1134.6 | 1137.3 | 1137.9 |
| 12.5° | 1812.2 | 1706.5 | 1421.3 | 1197.2 | 1102.9 | 1085.1 | 1103.5 | 1129.6 | 1146.7 | 1155.1 | 1154.5 |
| 15° | 1835.1 | 1693.7 | 1331.5 | 1107.4 | 1056.4 | 1066.0 | 1100.4 | 1137.3 | 1162.1 | 1173.6 | 1174.2 |
| 17.5° | 1859.9 | 1675.3 | 1239.1 | 1038.5 | 1022.0 | 1046.1 | 1088.9 | 1132.2 | 1162.7 | 1175.4 | 1178.1 |
| 20° | 1892.5 | 1652.3 | 1142.3 | 986.9 | 989.6 | 1016.8 | 1057.0 | 1100.4 | 1134.1 | 1144.9 | 1150.0 |
| 22.5° | 1935.1 | 1627.5 | 1057.6 | 945.0 | 952.6 | 973.6 | 1004.7 | 1042.4 | 1071.7 | 1076.8 | 1081.2 |
| 25° | 1992.5 | 1600.7 | 990.1 | 906.8 | 909.9 | 922.0 | 943.0 | 965.3 | 985.7 | 979.9 | 984.4 |
| 27.5° | 2069.5 | 1577.9 | 939.8 | 871.7 | 866.0 | 868.5 | 879.3 | 886.3 | 897.2 | 881.2 | 883.2 |
| 30° | 2159.8 | 1553.0 | 901.1 | 841.2 | 825.2 | 820.7 | 823.4 | 827.1 | 835.4 | 813.8 | 810.6 |
| 32.5° | 2265.0 | 1523.1 | 864.7 | 814.4 | 792.1 | 783.2 | 784.5 | 794.7 | 826.5 | 813.1 | 806.2 |
| 35° | 2387.2 | 1489.4 | 826.5 | 785.1 | 769.8 | 757.0 | 755.8 | 787.6 | 882.6 | 874.3 | 867.8 |
| 37.5° | 2530.5 | 1455.7 | 788.3 | 752.0 | 753.3 | 739.2 | 734.8 | 771.2 | 893.4 | 860.9 | 856.5 |
| 40° | 2712.6 | 1437.8 | 755.8 | 717.0 | 732.9 | 731.0 | 722.1 | 740.6 | 822.0 | 762.8 | 755.2 |
| 42.5° | 2938.0 | 1440.4 | 731.6 | 679.4 | 708.6 | 729.1 | 715.1 | 715.7 | 745.0 | 700.5 | 693.5 |
| 45° | 3216.3 | 1470.3 | 714.4 | 649.4 | 681.3 | 727.1 | 712.5 | 702.3 | 704.9 | 681.3 | 677.5 |
| 47.5° | 3541.0 | 1532.1 | 702.3 | 624.6 | 655.2 | 720.1 | 712.0 | 698.5 | 692.8 | 680.0 | 676.9 |
| 50° | 3902.0 | 1621.9 | 693.5 | 601.2 | 631.6 | 708.6 | 712.5 | 694.7 | 688.4 | 683.2 | 681.3 |
| 52.5° | 4256.7 | 1724.3 | 680.0 | 580.7 | 613.2 | 694.7 | 714.4 | 690.8 | 683.9 | 680.0 | 678.2 |
| 55° | 4652.2 | 1852.3 | 659.7 | 563.6 | 597.8 | 676.9 | 714.4 | 685.2 | 677.5 | 678.2 | 677.5 |
| 57.5° | 5186.4 | 2059.3 | 635.5 | 548.9 | 579.4 | 655.2 | 702.3 | 678.8 | 669.2 | 669.9 | 670.6 |
| 60° | 6021.2 | 2424.1 | 606.2 | 534.3 | 556.5 | 629.8 | 685.8 | 664.8 | 655.2 | 657.7 | 658.4 |
| 62.5° | 7248.8 | 2959.7 | 568.0 | 512.5 | 532.3 | 602.3 | 662.8 | 647.0 | 637.4 | 643.7 | 643.7 |
| 65° | 8524.9 | 3432.2 | 520.8 | 485.2 | 506.9 | 572.4 | 634.2 | 624.6 | 615.1 | 629.8 | 629.2 |
| 67.5° | 8868.1 | 3326.4 | 473.7 | 455.3 | 481.4 | 539.3 | 599.9 | 594.7 | 589.7 | 615.1 | 613.8 |
| 70° | 7877.9 | 2670.6 | 430.5 | 424.7 | 453.3 | 503.6 | 562.9 | 562.9 | 559.7 | 578.8 | 574.3 |
| 72.5° | 6002.0 | 1893.7 | 389.1 | 392.2 | 421.5 | 464.8 | 522.8 | 527.2 | 522.1 | 531.6 | 527.8 |
| 75° | 3213.1 | 1083.8 | 347.7 | 356.6 | 382.1 | 425.3 | 478.2 | 482.7 | 479.4 | 478.9 | 480.7 |
| 77.5° | 1067.8 | 529.8 | 304.4 | 318.4 | 340.7 | 384.6 | 431.7 | 438.6 | 431.1 | 429.8 | 429.2 |
| 80° | 475.6 | 333.0 | 256.6 | 275.2 | 294.8 | 338.1 | 382.7 | 388.4 | 380.1 | 391.5 | 377.0 |
| 82.5° | 305.6 | 219.1 | 205.6 | 226.0 | 245.2 | 291.6 | 333.7 | 334.9 | 327.3 | 380.1 | 324.1 |
| 85° | 148.4 | 135.6 | 154.7 | 173.1 | 189.8 | 229.2 | 276.3 | 277.0 | 257.9 | 235.0 | 226.7 |
| 87.5° | 73.9 | 79.0 | 103.1 | 119.7 | 128.0 | 157.3 | 201.2 | 197.4 | 189.1 | 172.0 | 158.5 |
| 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)