

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: P200058

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13088.2 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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

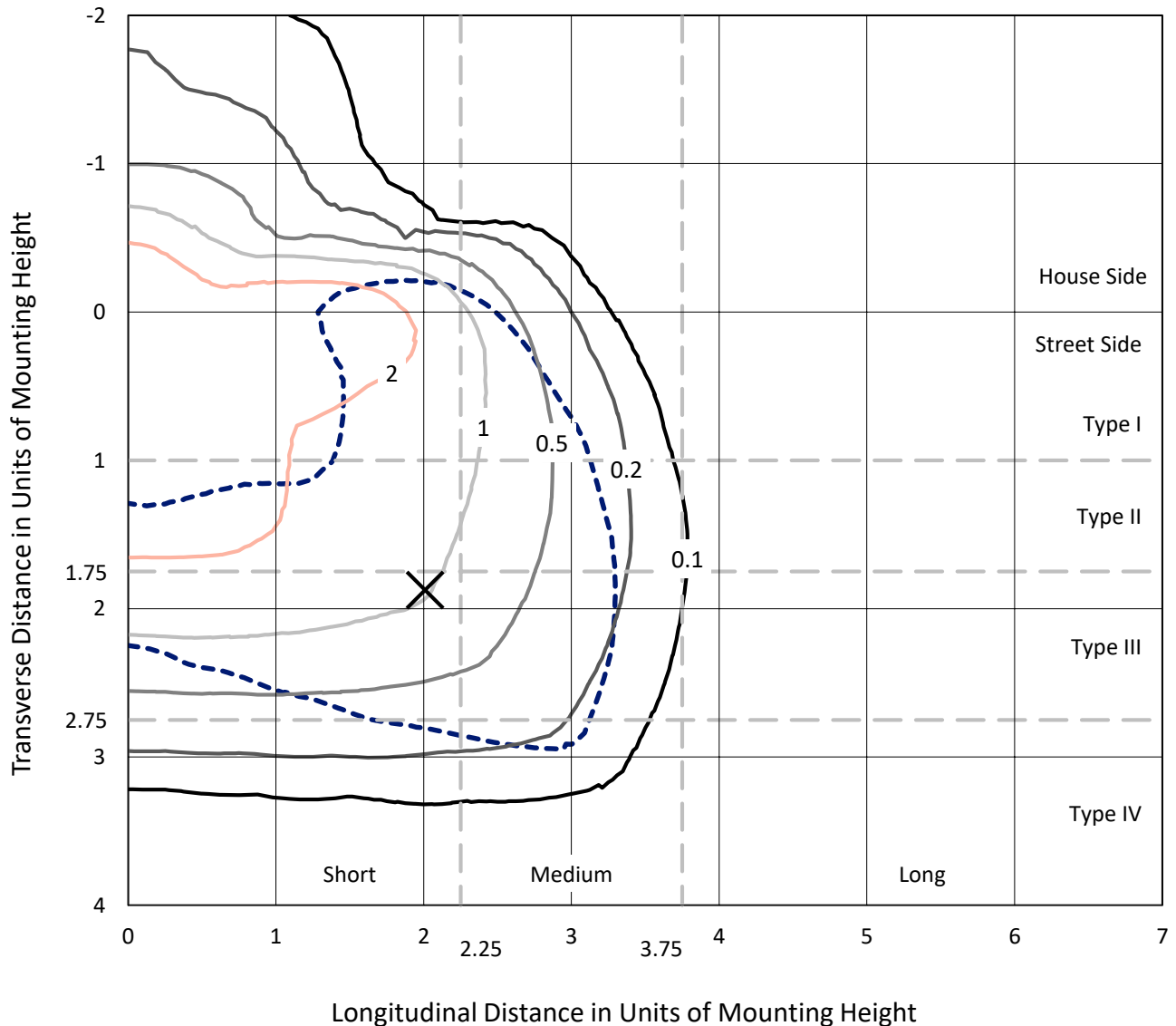


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Iso-Footcandle Lines of Horizontal Illumination

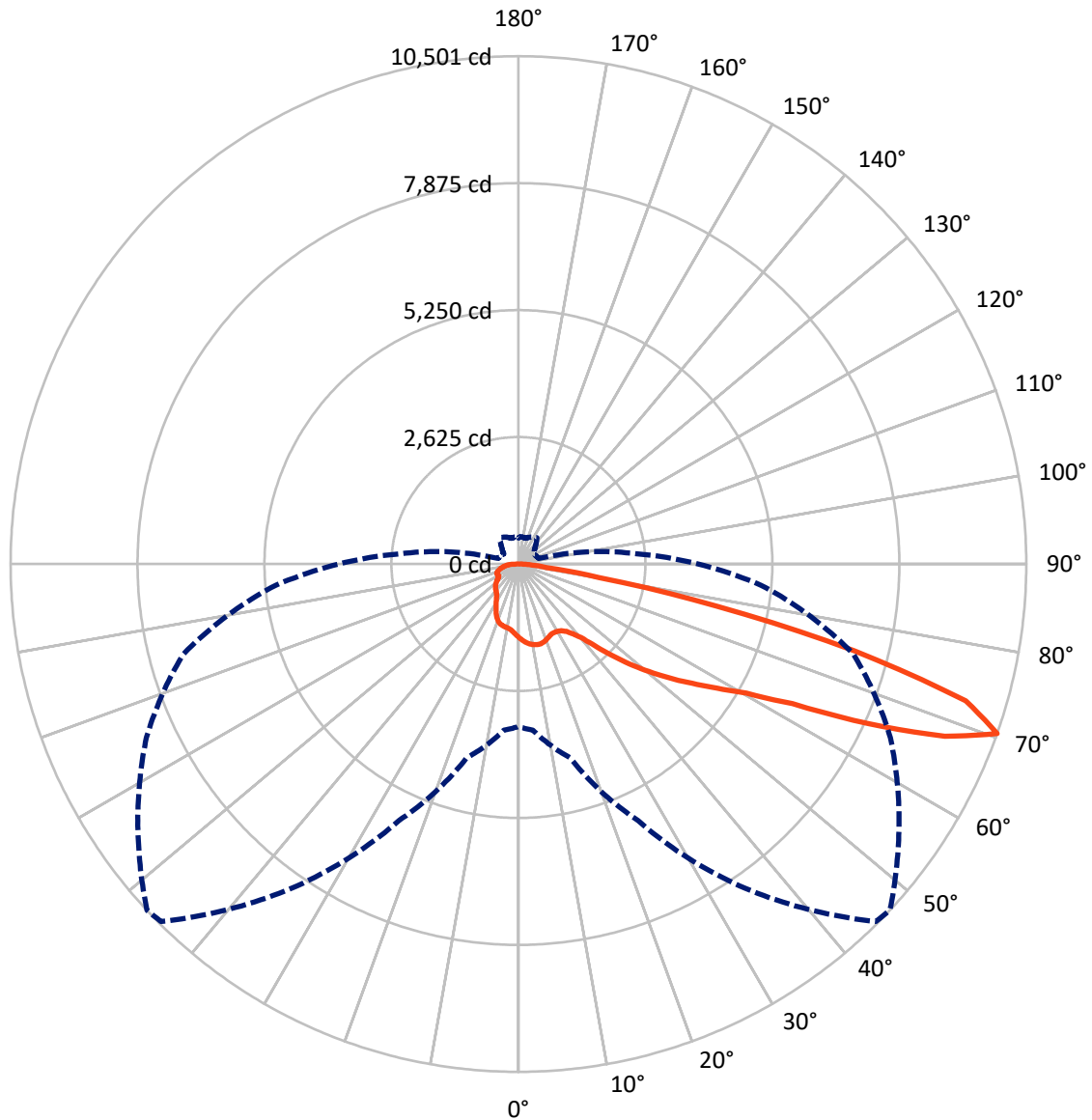
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2730.4 | 0.0 | 2730.4 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 10357.7 | 0.0 | 10357.7 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 13088.2 | 0.0 | 13088.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 145.5 | 1.1 |
| 10°-20° | 426.9 | 3.3 |
| 20°-30° | 630.4 | 4.8 |
| 30°-40° | 916.3 | 7.0 |
| 40°-50° | 1649.0 | 12.6 |
| 50°-60° | 2856.7 | 21.8 |
| 60°-70° | 4077.3 | 31.2 |
| 70°-80° | 2093.1 | 16.0 |
| 80°-90° | 293.0 | 2.2 |
| 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° | 13088.2 | 100.0 |
| 0°-180° | 13088.2 | 100.0 |



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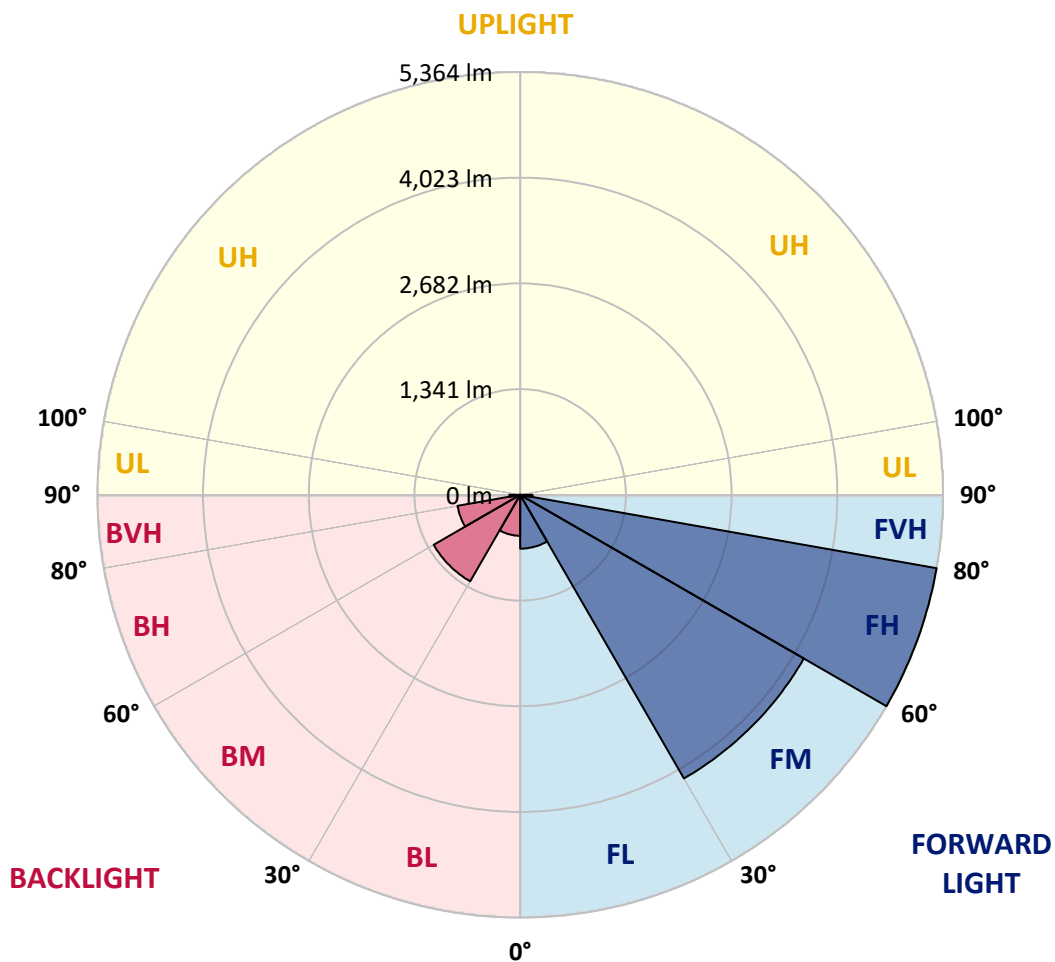
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 682.9 | 5.2 | | | |
| FM | (30°-60°) | 4154.6 | 31.7 | | | |
| FH | (60°-80°) | 5363.9 | 41.0 | | | G3/7500 |
| FVH | (80°-90°) | 156.4 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 519.9 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 1267.4 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 806.5 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 136.7 | 1.0 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 |
| 2.5° | 1607.7 | 1604.6 | 1603.3 | 1600.7 | 1597.6 | 1581.6 | 1578.5 | 1567.0 | 1551.2 | 1534.5 | 1517.4 |
| 5° | 1713.5 | 1712.8 | 1705.9 | 1693.1 | 1672.8 | 1637.7 | 1629.4 | 1601.4 | 1563.8 | 1527.6 | 1491.3 |
| 7.5° | 1806.5 | 1800.7 | 1787.4 | 1762.0 | 1726.2 | 1678.4 | 1667.0 | 1628.2 | 1576.6 | 1526.9 | 1477.8 |
| 10° | 1874.6 | 1871.4 | 1842.1 | 1807.0 | 1760.6 | 1707.7 | 1694.4 | 1651.1 | 1594.4 | 1531.4 | 1470.2 |
| 12.5° | 1913.4 | 1907.0 | 1873.2 | 1831.3 | 1775.9 | 1724.3 | 1710.9 | 1667.0 | 1603.3 | 1531.4 | 1459.3 |
| 15° | 1910.8 | 1906.5 | 1872.7 | 1826.9 | 1770.8 | 1725.5 | 1713.5 | 1669.6 | 1601.4 | 1525.0 | 1445.4 |
| 17.5° | 1859.9 | 1861.9 | 1833.2 | 1788.0 | 1742.1 | 1707.7 | 1696.9 | 1656.2 | 1588.6 | 1512.2 | 1428.9 |
| 20° | 1770.8 | 1779.8 | 1760.6 | 1720.5 | 1695.0 | 1671.4 | 1664.4 | 1630.0 | 1569.0 | 1493.8 | 1411.0 |
| 22.5° | 1681.6 | 1689.9 | 1682.3 | 1648.5 | 1644.7 | 1630.7 | 1626.9 | 1602.1 | 1551.7 | 1482.3 | 1400.1 |
| 25° | 1616.1 | 1623.7 | 1622.4 | 1593.1 | 1604.6 | 1603.9 | 1600.7 | 1588.6 | 1547.8 | 1482.3 | 1402.2 |
| 27.5° | 1598.3 | 1600.7 | 1598.3 | 1571.4 | 1587.4 | 1600.1 | 1597.6 | 1595.7 | 1559.3 | 1500.7 | 1426.3 |
| 30° | 1659.3 | 1655.5 | 1635.8 | 1581.6 | 1596.3 | 1614.2 | 1611.6 | 1612.8 | 1593.8 | 1549.2 | 1480.5 |
| 32.5° | 1903.2 | 1886.1 | 1823.6 | 1671.4 | 1632.7 | 1642.1 | 1643.5 | 1664.4 | 1667.7 | 1623.7 | 1564.5 |
| 35° | 2268.1 | 2249.0 | 2168.1 | 1912.1 | 1745.3 | 1712.2 | 1712.2 | 1744.0 | 1763.1 | 1730.6 | 1695.0 |
| 37.5° | 2654.6 | 2633.5 | 2590.3 | 2245.9 | 1982.2 | 1833.8 | 1830.6 | 1852.9 | 1880.4 | 1888.0 | 1896.8 |
| 40° | 3093.9 | 3071.6 | 3083.8 | 2620.2 | 2312.7 | 2044.6 | 1999.3 | 1983.5 | 2057.4 | 2106.3 | 2177.6 |
| 42.5° | 3574.6 | 3564.5 | 3569.0 | 3037.3 | 2689.0 | 2359.8 | 2295.4 | 2213.4 | 2302.4 | 2389.7 | 2539.3 |
| 45° | 4019.7 | 4028.7 | 4024.2 | 3483.6 | 3108.0 | 2744.4 | 2676.2 | 2517.0 | 2604.3 | 2753.9 | 2997.7 |
| 47.5° | 4409.4 | 4372.5 | 4429.8 | 3971.3 | 3577.2 | 3174.8 | 3090.7 | 2877.5 | 2966.0 | 3150.6 | 3563.3 |
| 50° | 4882.6 | 4877.5 | 4793.4 | 4622.1 | 4144.5 | 3607.2 | 3497.0 | 3249.9 | 3387.5 | 3644.2 | 4275.8 |
| 52.5° | 5379.8 | 5287.5 | 5210.5 | 5128.3 | 4746.3 | 4050.3 | 3915.3 | 3621.2 | 3882.8 | 4205.7 | 5144.3 |
| 55° | 5481.7 | 5440.3 | 5535.8 | 5674.1 | 5326.4 | 4510.7 | 4353.4 | 4086.7 | 4440.7 | 4847.5 | 6145.9 |
| 57.5° | 5699.5 | 5698.9 | 5896.2 | 6142.7 | 5923.6 | 4999.0 | 4840.5 | 4648.9 | 5067.9 | 5582.9 | 7209.3 |
| 60° | 5846.6 | 5888.0 | 6254.8 | 6732.9 | 6510.1 | 5563.3 | 5417.4 | 5297.8 | 5781.0 | 6405.0 | 8200.0 |
| 62.5° | 5923.6 | 5979.6 | 6480.1 | 6972.4 | 7339.2 | 6502.4 | 6356.6 | 6184.1 | 6724.7 | 7306.6 | 8779.4 |
| 65° | 5603.4 | 5713.5 | 6445.1 | 7179.3 | 8065.0 | 8024.9 | 7959.3 | 7656.3 | 7904.6 | 8019.2 | 8570.0 |
| 67.5° | 4717.0 | 4829.7 | 5681.7 | 6986.4 | 8583.3 | 9493.2 | 9507.2 | 8989.6 | 8630.4 | 8080.3 | 7205.4 |
| 70° | 3360.7 | 3449.2 | 4154.1 | 5857.4 | 8188.6 | 10452.9 | 10500.6 | 9604.0 | 8485.8 | 7165.9 | 5034.1 |
| 72.5° | 1595.7 | 1649.9 | 2317.1 | 3812.2 | 6497.9 | 9577.2 | 9669.6 | 8819.5 | 7215.6 | 5305.3 | 2746.2 |
| 75° | 586.4 | 603.0 | 783.2 | 1621.7 | 3768.9 | 7062.7 | 7171.7 | 6322.3 | 4783.3 | 2641.3 | 1046.1 |
| 77.5° | 351.5 | 362.3 | 439.3 | 684.5 | 1482.3 | 4036.9 | 4198.1 | 3438.4 | 2090.4 | 983.2 | 514.5 |
| 80° | 245.9 | 253.4 | 315.2 | 426.0 | 700.5 | 1538.4 | 1681.6 | 1403.4 | 832.9 | 622.1 | 374.4 |
| 82.5° | 166.2 | 170.0 | 221.6 | 287.8 | 465.5 | 549.5 | 592.8 | 624.0 | 561.6 | 462.9 | 237.5 |
| 85° | 108.9 | 112.7 | 150.2 | 189.8 | 296.1 | 284.0 | 290.3 | 367.4 | 410.0 | 314.5 | 131.7 |
| 87.5° | 62.4 | 64.9 | 90.4 | 101.3 | 145.2 | 120.3 | 121.6 | 193.6 | 262.3 | 212.1 | 80.2 |
| 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° | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 |
| 2.5° | 1512.9 | 1504.6 | 1486.2 | 1474.7 | 1463.8 | 1461.4 | 1456.9 | 1456.2 | 1455.6 | 1455.6 | 1453.7 |
| 5° | 1479.2 | 1465.1 | 1436.5 | 1420.6 | 1407.1 | 1405.9 | 1405.3 | 1408.5 | 1409.8 | 1411.0 | 1409.1 |
| 7.5° | 1457.5 | 1438.4 | 1402.8 | 1379.8 | 1363.9 | 1360.1 | 1366.5 | 1381.1 | 1390.7 | 1394.4 | 1392.5 |
| 10° | 1444.2 | 1420.6 | 1379.2 | 1354.4 | 1340.9 | 1339.1 | 1347.3 | 1364.5 | 1384.4 | 1392.0 | 1391.3 |
| 12.5° | 1428.9 | 1402.2 | 1358.2 | 1332.1 | 1324.4 | 1328.3 | 1339.1 | 1355.1 | 1375.3 | 1387.5 | 1388.1 |
| 15° | 1413.6 | 1382.3 | 1337.2 | 1314.3 | 1311.0 | 1316.1 | 1326.3 | 1338.4 | 1354.4 | 1366.5 | 1367.7 |
| 17.5° | 1395.1 | 1362.7 | 1317.4 | 1293.8 | 1291.3 | 1293.8 | 1294.5 | 1300.8 | 1311.0 | 1322.5 | 1325.8 |
| 20° | 1375.3 | 1342.2 | 1295.2 | 1271.6 | 1260.1 | 1249.9 | 1238.5 | 1239.8 | 1243.0 | 1254.4 | 1256.9 |
| 22.5° | 1361.4 | 1328.3 | 1277.9 | 1245.4 | 1214.9 | 1184.4 | 1161.4 | 1158.2 | 1159.5 | 1169.1 | 1172.3 |
| 25° | 1362.7 | 1327.6 | 1273.5 | 1217.4 | 1150.6 | 1101.6 | 1071.0 | 1066.0 | 1065.3 | 1072.3 | 1076.8 |
| 27.5° | 1387.5 | 1352.4 | 1290.1 | 1188.8 | 1080.6 | 1007.9 | 975.4 | 971.7 | 966.6 | 968.5 | 973.6 |
| 30° | 1442.9 | 1410.4 | 1330.1 | 1159.5 | 1004.7 | 916.2 | 882.5 | 878.7 | 871.7 | 868.5 | 872.3 |
| 32.5° | 1533.2 | 1506.5 | 1388.6 | 1131.5 | 929.0 | 837.9 | 803.6 | 795.3 | 790.8 | 787.0 | 790.2 |
| 35° | 1683.5 | 1672.1 | 1467.1 | 1100.9 | 862.2 | 777.5 | 746.2 | 733.5 | 727.1 | 734.1 | 739.2 |
| 37.5° | 1919.1 | 1925.4 | 1569.6 | 1053.1 | 810.6 | 737.4 | 711.3 | 696.6 | 687.0 | 692.8 | 698.5 |
| 40° | 2252.8 | 2257.3 | 1682.9 | 985.6 | 766.0 | 713.8 | 685.8 | 672.4 | 659.1 | 648.9 | 648.2 |
| 42.5° | 2690.8 | 2645.7 | 1794.4 | 912.5 | 714.4 | 699.1 | 667.9 | 651.4 | 631.0 | 603.0 | 597.3 |
| 45° | 3210.5 | 3051.9 | 1879.0 | 828.4 | 656.4 | 681.3 | 648.2 | 625.3 | 593.5 | 562.9 | 559.7 |
| 47.5° | 3809.0 | 3488.1 | 1920.4 | 741.3 | 602.3 | 655.2 | 624.0 | 587.7 | 547.6 | 532.3 | 530.5 |
| 50° | 4539.9 | 4005.8 | 1940.1 | 656.4 | 555.2 | 620.8 | 589.0 | 546.3 | 512.5 | 509.3 | 507.5 |
| 52.5° | 5372.2 | 4628.4 | 1946.6 | 587.0 | 516.4 | 576.3 | 560.3 | 519.0 | 492.2 | 494.7 | 494.7 |
| 55° | 6243.3 | 5271.6 | 1859.9 | 536.8 | 480.7 | 530.5 | 541.3 | 508.2 | 485.8 | 496.0 | 499.9 |
| 57.5° | 7043.1 | 5841.4 | 1587.4 | 497.9 | 447.0 | 495.4 | 534.3 | 518.3 | 503.0 | 544.4 | 547.0 |
| 60° | 7656.9 | 6178.3 | 1185.6 | 462.9 | 422.2 | 483.3 | 552.8 | 557.1 | 560.9 | 659.7 | 673.0 |
| 62.5° | 7785.5 | 6066.3 | 815.1 | 435.5 | 410.7 | 493.6 | 586.4 | 587.0 | 582.6 | 651.4 | 659.7 |
| 65° | 7195.2 | 5357.5 | 592.8 | 420.2 | 401.2 | 512.0 | 615.1 | 601.7 | 572.4 | 624.6 | 609.3 |
| 67.5° | 5714.2 | 4036.4 | 493.6 | 408.7 | 387.1 | 510.7 | 645.6 | 615.1 | 566.7 | 612.0 | 587.0 |
| 70° | 3709.1 | 2440.7 | 439.3 | 399.3 | 370.6 | 486.4 | 663.5 | 613.8 | 550.1 | 569.2 | 540.0 |
| 72.5° | 1809.7 | 1091.4 | 403.0 | 385.2 | 353.4 | 452.8 | 662.8 | 602.3 | 532.9 | 531.6 | 515.8 |
| 75° | 708.1 | 499.9 | 370.0 | 364.3 | 324.1 | 414.5 | 645.0 | 585.8 | 512.5 | 492.2 | 486.4 |
| 77.5° | 414.5 | 356.6 | 327.9 | 333.0 | 289.1 | 376.3 | 619.0 | 557.1 | 484.6 | 460.4 | 454.0 |
| 80° | 301.8 | 266.8 | 279.4 | 287.8 | 247.0 | 338.1 | 583.9 | 522.1 | 453.3 | 465.5 | 456.6 |
| 82.5° | 193.6 | 172.0 | 226.7 | 234.9 | 205.6 | 299.3 | 545.6 | 485.2 | 409.4 | 371.8 | 363.0 |
| 85° | 98.7 | 108.9 | 168.7 | 178.9 | 158.5 | 245.9 | 499.2 | 436.2 | 359.8 | 309.4 | 314.5 |
| 87.5° | 55.4 | 74.6 | 107.6 | 120.3 | 112.1 | 189.1 | 405.0 | 359.8 | 293.6 | 238.7 | 210.1 |
| 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)