

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: P200016

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200016
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
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11790.2 lumens
Efficiency: N/A
Efficacy: 104.3 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

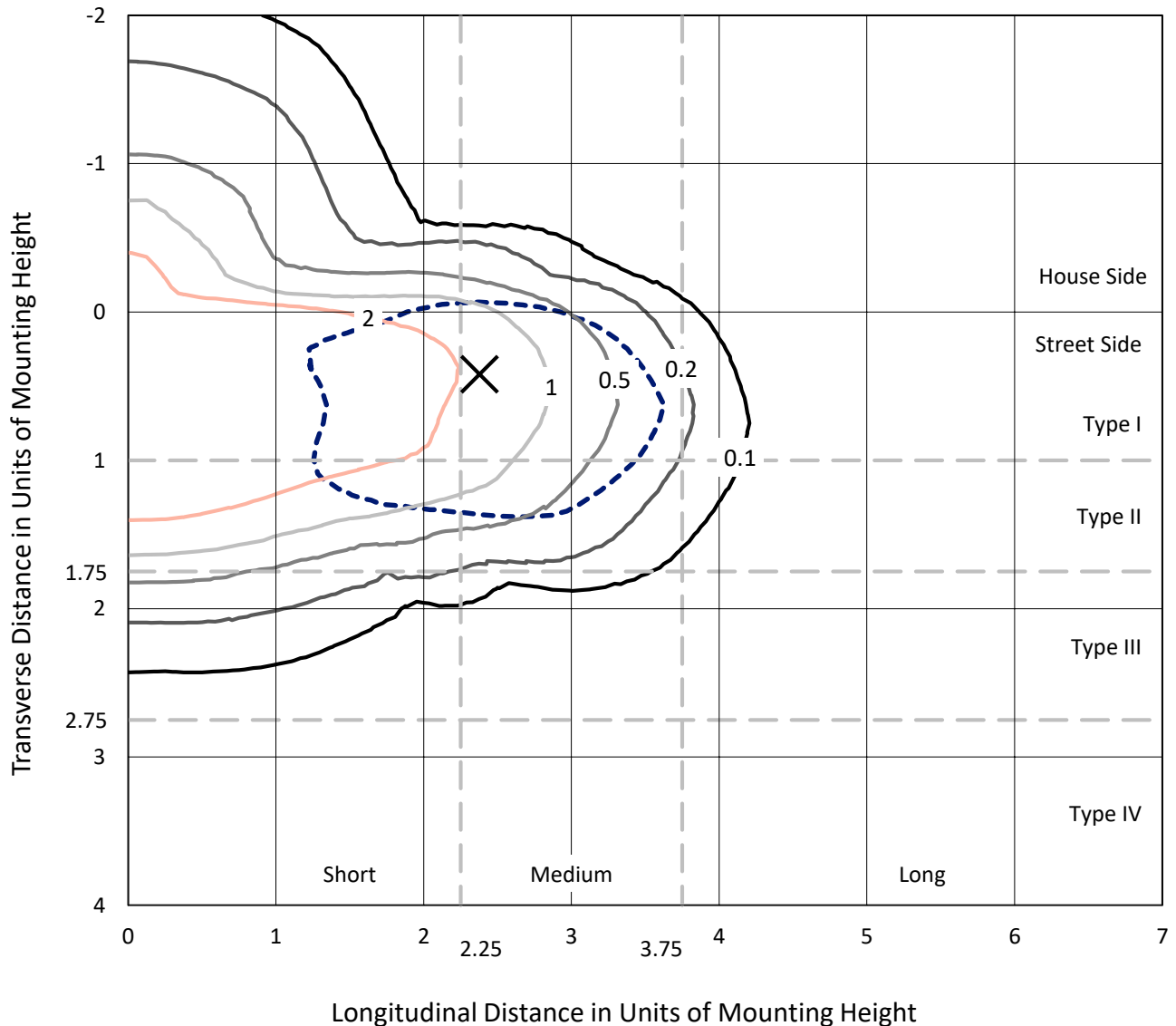
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

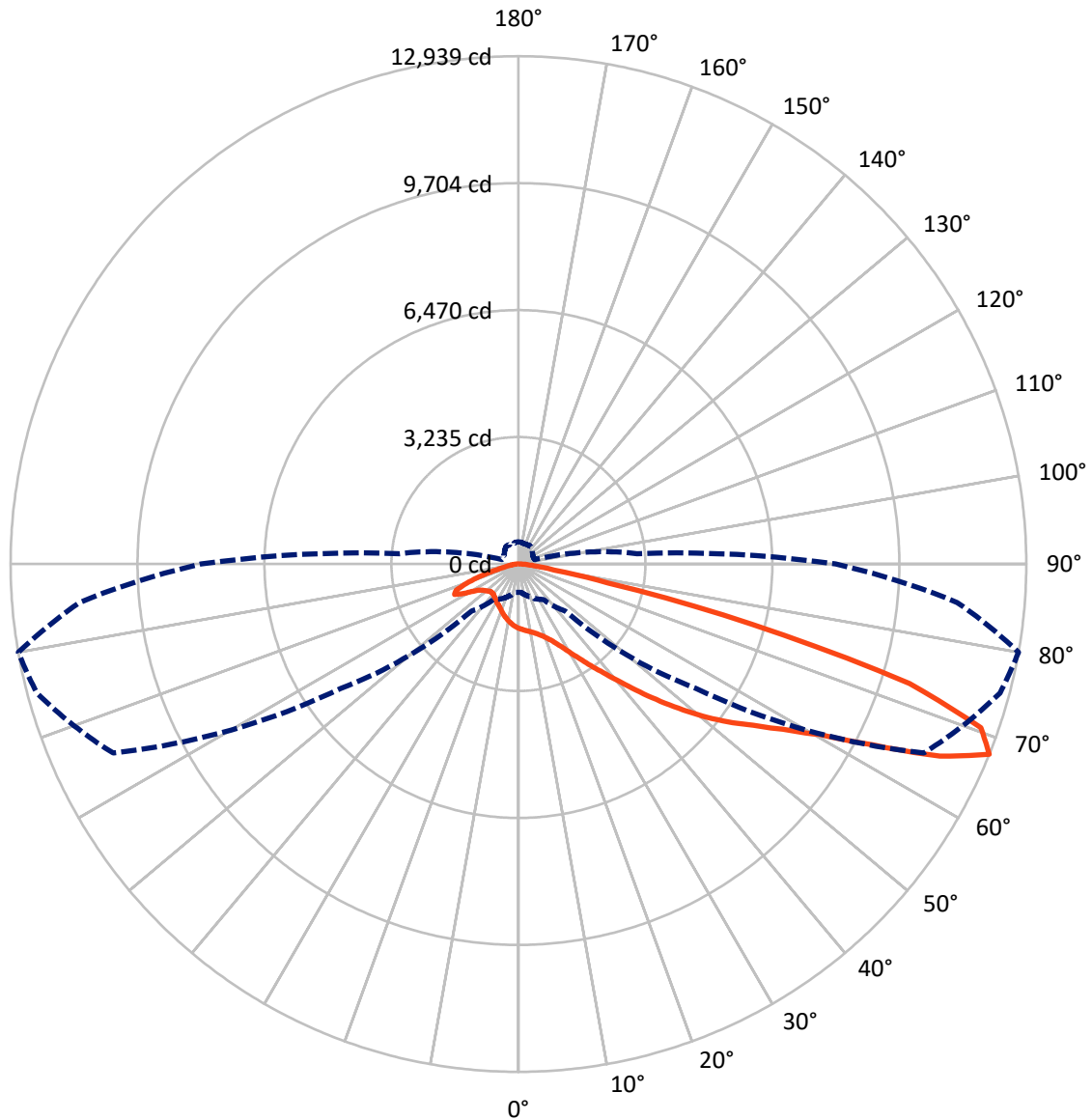
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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 | 2171.3 | 0.0 | 2171.3 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 9618.9 | 0.0 | 9618.9 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 11790.2 | 0.0 | 11790.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 151.1 | 1.3 |
| 10°-20° | 435.3 | 3.7 |
| 20°-30° | 720.5 | 6.1 |
| 30°-40° | 1178.5 | 10.0 |
| 40°-50° | 1902.8 | 16.1 |
| 50°-60° | 2747.1 | 23.3 |
| 60°-70° | 3031.6 | 25.7 |
| 70°-80° | 1397.4 | 11.9 |
| 80°-90° | 226.0 | 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° | 11790.2 | 100.0 |
| 0°-180° | 11790.2 | 100.0 |



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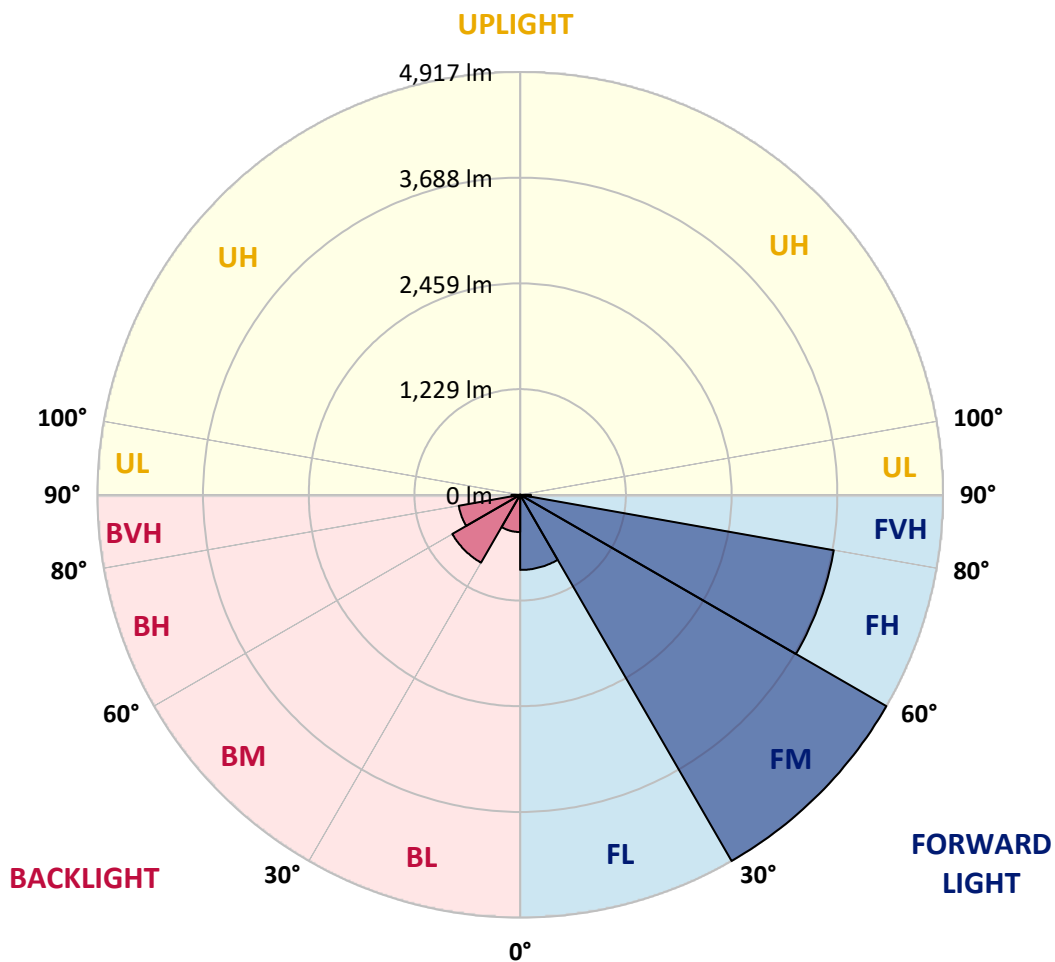
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 873.6 | 7.4 | | | |
| FM | (30°-60°) | 4917.4 | 41.7 | | | |
| FH | (60°-80°) | 3703.6 | 31.4 | | | G2/5000 |
| FVH | (80°-90°) | 124.3 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 433.2 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 911.0 | 7.7 | B1/1000 | | |
| BH | (60°-80°) | 725.3 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 101.8 | 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° | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 |
| 2.5° | 1791.9 | 1781.4 | 1783.1 | 1780.2 | 1771.5 | 1756.5 | 1740.2 | 1710.6 | 1679.8 | 1663.6 | 1650.8 |
| 5° | 1941.5 | 1938.7 | 1934.7 | 1925.3 | 1903.3 | 1871.9 | 1833.1 | 1780.8 | 1724.4 | 1694.8 | 1666.4 |
| 7.5° | 2053.6 | 2051.9 | 2046.7 | 2040.9 | 2019.3 | 1981.6 | 1923.0 | 1848.6 | 1766.8 | 1726.2 | 1682.1 |
| 10° | 2063.0 | 2065.8 | 2069.8 | 2085.5 | 2088.4 | 2068.1 | 2008.3 | 1918.4 | 1811.0 | 1758.7 | 1702.5 |
| 12.5° | 1983.9 | 1990.3 | 2006.0 | 2046.1 | 2088.4 | 2113.4 | 2082.6 | 1991.5 | 1862.7 | 1799.4 | 1727.9 |
| 15° | 1879.5 | 1883.0 | 1902.1 | 1957.3 | 2033.4 | 2110.5 | 2139.6 | 2072.2 | 1929.4 | 1851.6 | 1766.2 |
| 17.5° | 1834.8 | 1836.5 | 1849.9 | 1886.5 | 1957.3 | 2067.5 | 2171.4 | 2159.8 | 2011.3 | 1916.6 | 1813.2 |
| 20° | 1812.2 | 1816.2 | 1835.3 | 1871.3 | 1916.1 | 2012.3 | 2176.1 | 2254.4 | 2108.7 | 1998.0 | 1872.4 |
| 22.5° | 1876.5 | 1874.8 | 1881.8 | 1899.8 | 1937.5 | 1995.5 | 2172.6 | 2352.0 | 2232.9 | 2102.3 | 1949.7 |
| 25° | 2026.9 | 2033.4 | 2021.1 | 2000.7 | 2013.0 | 2053.6 | 2191.2 | 2457.6 | 2388.5 | 2236.4 | 2050.7 |
| 27.5° | 2241.1 | 2234.7 | 2216.7 | 2169.2 | 2144.1 | 2161.5 | 2252.7 | 2571.3 | 2581.8 | 2412.9 | 2184.2 |
| 30° | 2454.7 | 2449.5 | 2432.0 | 2373.9 | 2323.0 | 2308.4 | 2372.2 | 2702.0 | 2812.3 | 2624.7 | 2347.9 |
| 32.5° | 2676.5 | 2670.7 | 2654.4 | 2596.3 | 2534.9 | 2501.2 | 2542.4 | 2852.9 | 3083.9 | 2877.8 | 2540.6 |
| 35° | 2949.8 | 2938.7 | 2904.5 | 2823.8 | 2763.5 | 2737.4 | 2756.5 | 3042.7 | 3397.3 | 3177.4 | 2774.5 |
| 37.5° | 3206.9 | 3223.8 | 3189.0 | 3077.5 | 2999.1 | 2989.9 | 3011.3 | 3274.3 | 3735.1 | 3512.2 | 3043.2 |
| 40° | 3465.2 | 3468.1 | 3436.7 | 3345.6 | 3265.0 | 3249.9 | 3303.9 | 3555.2 | 4134.0 | 3912.7 | 3370.0 |
| 42.5° | 3732.2 | 3738.0 | 3685.2 | 3601.0 | 3541.8 | 3544.7 | 3606.2 | 3884.2 | 4591.3 | 4384.7 | 3746.2 |
| 45° | 4048.6 | 4057.3 | 3999.2 | 3889.0 | 3835.0 | 3943.5 | 3917.9 | 4253.5 | 5092.8 | 4920.9 | 4178.0 |
| 47.5° | 4379.4 | 4392.8 | 4348.6 | 4245.4 | 4178.0 | 4327.2 | 4229.7 | 4662.6 | 5632.6 | 5496.2 | 4652.3 |
| 50° | 4559.9 | 4579.0 | 4622.0 | 4614.4 | 4600.0 | 4575.0 | 4577.3 | 5101.5 | 6189.2 | 6095.1 | 5139.8 |
| 52.5° | 4463.0 | 4462.3 | 4619.2 | 4809.5 | 5012.7 | 5027.8 | 5001.1 | 5564.0 | 6709.3 | 6680.8 | 5598.9 |
| 55° | 4019.5 | 4049.7 | 4287.2 | 4655.6 | 5210.6 | 5557.2 | 5636.0 | 6094.1 | 7220.1 | 7253.1 | 6065.0 |
| 57.5° | 3281.2 | 3306.1 | 3626.6 | 4140.3 | 4943.6 | 5871.7 | 6539.1 | 6864.2 | 7791.3 | 7945.7 | 6685.5 |
| 60° | 2225.4 | 2255.5 | 2595.1 | 3212.1 | 4225.0 | 5696.4 | 7398.8 | 8238.7 | 8475.0 | 8826.2 | 7556.2 |
| 62.5° | 1307.8 | 1335.0 | 1611.9 | 2026.3 | 2974.7 | 4882.0 | 7776.1 | 10194.2 | 9560.9 | 10154.8 | 8884.2 |
| 65° | 900.3 | 918.9 | 1053.5 | 1261.3 | 1709.4 | 3288.1 | 7308.4 | 11544.4 | 11232.1 | 11800.9 | 10424.1 |
| 67.5° | 724.4 | 722.1 | 828.8 | 970.4 | 1100.5 | 1695.4 | 5526.4 | 11391.7 | 12701.7 | 12939.1 | 11223.3 |
| 70° | 596.7 | 594.4 | 666.9 | 784.2 | 879.3 | 954.8 | 3010.2 | 9613.1 | 12402.2 | 12498.6 | 10487.4 |
| 72.5° | 499.2 | 501.5 | 547.9 | 635.1 | 721.4 | 719.2 | 1322.8 | 6762.7 | 9756.7 | 10422.9 | 8360.1 |
| 75° | 421.4 | 422.5 | 453.3 | 514.8 | 585.6 | 579.3 | 717.4 | 3663.7 | 5671.4 | 6135.2 | 4634.2 |
| 77.5° | 358.7 | 359.9 | 379.5 | 413.9 | 464.4 | 462.0 | 523.6 | 1582.8 | 2365.9 | 2336.8 | 1585.2 |
| 80° | 319.8 | 319.8 | 329.1 | 335.5 | 363.4 | 352.9 | 388.3 | 760.3 | 1000.0 | 923.5 | 632.7 |
| 82.5° | 250.7 | 252.0 | 308.7 | 306.5 | 286.2 | 272.8 | 272.8 | 448.1 | 529.9 | 489.9 | 370.3 |
| 85° | 141.1 | 140.5 | 199.1 | 240.3 | 252.0 | 192.1 | 190.3 | 250.7 | 288.5 | 254.2 | 179.4 |
| 87.5° | 60.3 | 61.5 | 92.4 | 106.7 | 142.8 | 119.5 | 117.8 | 129.5 | 146.9 | 127.1 | 83.0 |
| 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° | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 |
| 2.5° | 1638.6 | 1623.5 | 1590.4 | 1549.2 | 1512.0 | 1487.7 | 1465.6 | 1433.7 | 1435.4 | 1413.4 | 1397.1 |
| 5° | 1637.5 | 1606.1 | 1529.4 | 1438.3 | 1350.7 | 1287.4 | 1239.8 | 1196.8 | 1186.4 | 1166.2 | 1153.9 |
| 7.5° | 1638.6 | 1587.5 | 1458.6 | 1313.0 | 1204.4 | 1124.3 | 1083.7 | 1061.0 | 1055.8 | 1048.9 | 1049.4 |
| 10° | 1642.6 | 1570.7 | 1380.8 | 1195.8 | 1081.8 | 1029.1 | 1019.3 | 1026.2 | 1034.3 | 1036.7 | 1037.2 |
| 12.5° | 1651.9 | 1555.6 | 1295.5 | 1091.2 | 1005.3 | 989.1 | 1006.0 | 1029.7 | 1045.4 | 1052.9 | 1052.3 |
| 15° | 1672.9 | 1544.0 | 1213.7 | 1009.3 | 962.9 | 971.7 | 1003.0 | 1036.7 | 1059.3 | 1069.7 | 1070.3 |
| 17.5° | 1695.4 | 1527.1 | 1129.5 | 946.7 | 931.7 | 953.7 | 992.5 | 1032.1 | 1060.0 | 1071.5 | 1073.8 |
| 20° | 1725.1 | 1506.2 | 1041.4 | 899.6 | 902.1 | 926.9 | 963.5 | 1003.0 | 1033.8 | 1043.7 | 1048.3 |
| 22.5° | 1764.0 | 1483.6 | 964.1 | 861.4 | 868.3 | 887.5 | 915.9 | 950.2 | 976.9 | 981.4 | 985.6 |
| 25° | 1816.2 | 1459.2 | 902.6 | 826.5 | 829.5 | 840.4 | 859.7 | 880.0 | 898.5 | 893.3 | 897.3 |
| 27.5° | 1886.5 | 1438.3 | 856.7 | 794.7 | 789.4 | 791.7 | 801.6 | 808.0 | 817.8 | 803.3 | 805.0 |
| 30° | 1968.9 | 1415.7 | 821.3 | 766.8 | 752.2 | 748.2 | 750.5 | 754.0 | 761.5 | 741.8 | 738.9 |
| 32.5° | 2064.7 | 1388.3 | 788.2 | 742.4 | 722.1 | 713.9 | 715.1 | 724.4 | 753.5 | 741.3 | 734.9 |
| 35° | 2176.1 | 1357.6 | 753.5 | 715.6 | 701.8 | 690.2 | 689.0 | 718.1 | 804.4 | 796.9 | 791.1 |
| 37.5° | 2306.7 | 1326.9 | 718.6 | 685.5 | 686.7 | 673.9 | 669.9 | 702.9 | 814.3 | 784.7 | 780.6 |
| 40° | 2472.6 | 1310.7 | 689.0 | 653.6 | 668.1 | 666.4 | 658.2 | 675.0 | 749.3 | 695.3 | 688.5 |
| 42.5° | 2678.2 | 1313.0 | 666.9 | 619.3 | 646.0 | 664.7 | 651.8 | 652.4 | 679.1 | 638.5 | 632.1 |
| 45° | 2931.8 | 1340.3 | 651.3 | 592.0 | 621.0 | 662.8 | 649.5 | 640.3 | 642.6 | 621.0 | 617.6 |
| 47.5° | 3227.8 | 1396.6 | 640.3 | 569.5 | 597.3 | 656.4 | 648.9 | 636.8 | 631.5 | 619.9 | 617.0 |
| 50° | 3556.9 | 1478.4 | 632.1 | 547.9 | 575.8 | 646.0 | 649.5 | 633.2 | 627.4 | 622.8 | 621.0 |
| 52.5° | 3880.3 | 1571.8 | 619.9 | 529.4 | 559.0 | 633.2 | 651.3 | 629.8 | 623.5 | 619.9 | 618.2 |
| 55° | 4240.7 | 1688.5 | 601.4 | 513.7 | 544.9 | 617.0 | 651.3 | 624.5 | 617.6 | 618.2 | 617.6 |
| 57.5° | 4727.6 | 1877.2 | 579.3 | 500.3 | 528.2 | 597.3 | 640.3 | 618.7 | 610.0 | 610.6 | 611.2 |
| 60° | 5488.6 | 2209.8 | 552.6 | 487.0 | 507.3 | 574.0 | 625.2 | 606.0 | 597.3 | 599.7 | 600.2 |
| 62.5° | 6607.7 | 2697.8 | 517.8 | 467.3 | 485.2 | 549.1 | 604.2 | 589.7 | 581.0 | 586.8 | 586.8 |
| 65° | 7770.9 | 3128.5 | 474.8 | 442.3 | 462.0 | 521.8 | 578.1 | 569.5 | 560.7 | 574.0 | 573.5 |
| 67.5° | 8083.8 | 3032.2 | 431.8 | 414.9 | 438.7 | 491.6 | 546.8 | 542.2 | 537.4 | 560.7 | 559.5 |
| 70° | 7181.2 | 2434.4 | 392.3 | 387.1 | 413.2 | 459.1 | 513.1 | 513.1 | 510.2 | 527.6 | 523.6 |
| 72.5° | 5471.1 | 1726.2 | 354.6 | 357.5 | 384.3 | 423.7 | 476.6 | 480.6 | 476.0 | 484.7 | 481.2 |
| 75° | 2928.9 | 987.9 | 317.0 | 325.0 | 348.2 | 387.8 | 436.0 | 440.0 | 437.0 | 436.5 | 438.2 |
| 77.5° | 973.4 | 482.9 | 277.4 | 290.2 | 310.6 | 350.6 | 393.6 | 399.9 | 393.0 | 391.8 | 391.2 |
| 80° | 433.5 | 303.5 | 234.0 | 250.7 | 268.8 | 308.2 | 348.9 | 354.1 | 346.6 | 356.9 | 343.6 |
| 82.5° | 278.6 | 199.6 | 187.5 | 206.1 | 223.4 | 265.8 | 304.2 | 305.3 | 298.4 | 346.6 | 295.4 |
| 85° | 135.3 | 123.7 | 141.1 | 157.9 | 172.9 | 208.9 | 252.0 | 252.5 | 235.1 | 214.1 | 206.6 |
| 87.5° | 67.3 | 72.0 | 94.1 | 109.2 | 116.7 | 143.3 | 183.4 | 180.0 | 172.4 | 156.7 | 144.5 |
| 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)