

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: P269972

Luminaire Tested: **GPC-AF-01-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-SLL-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5324.5 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

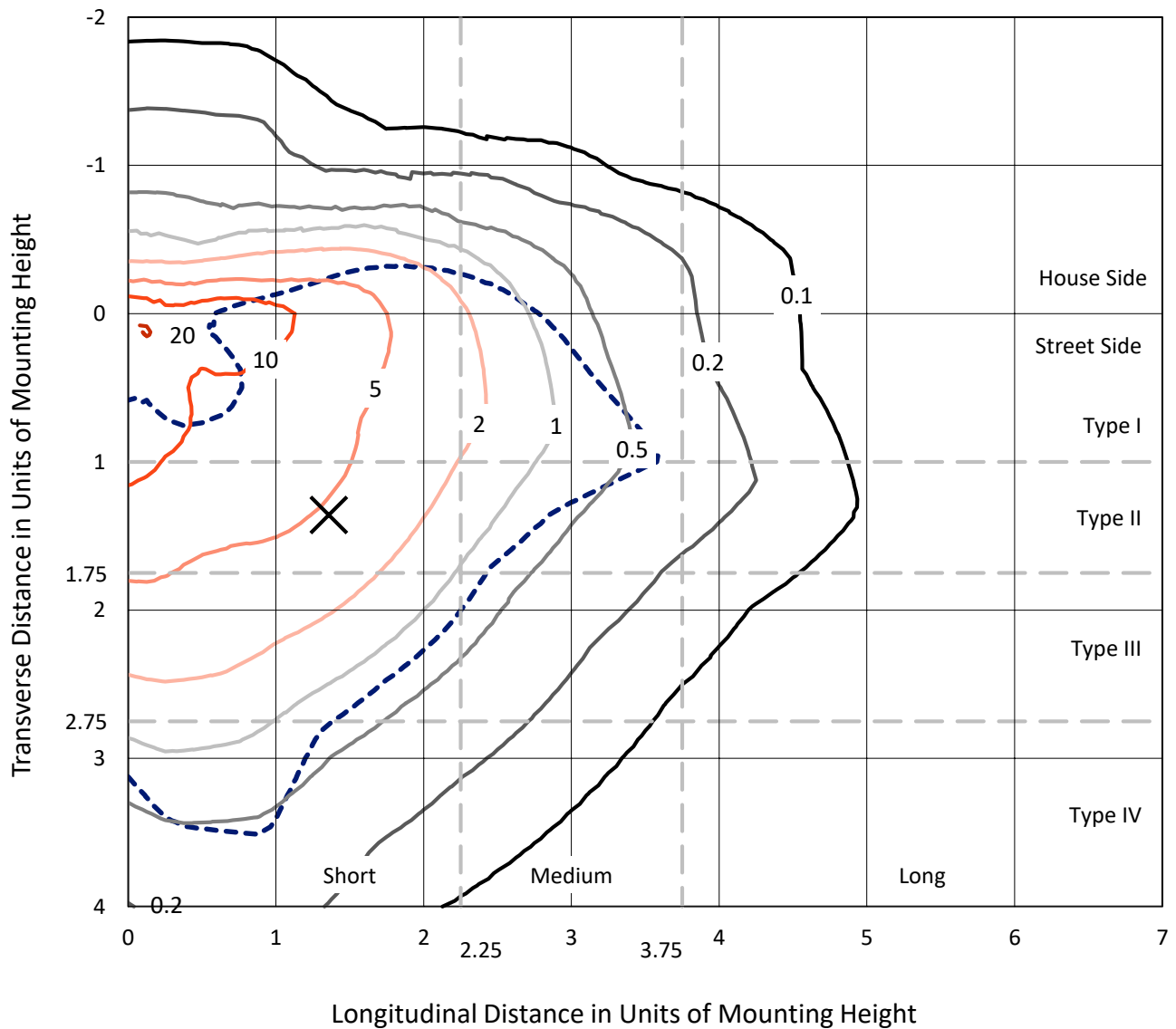


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Iso-Footcandle Lines of Horizontal Illumination

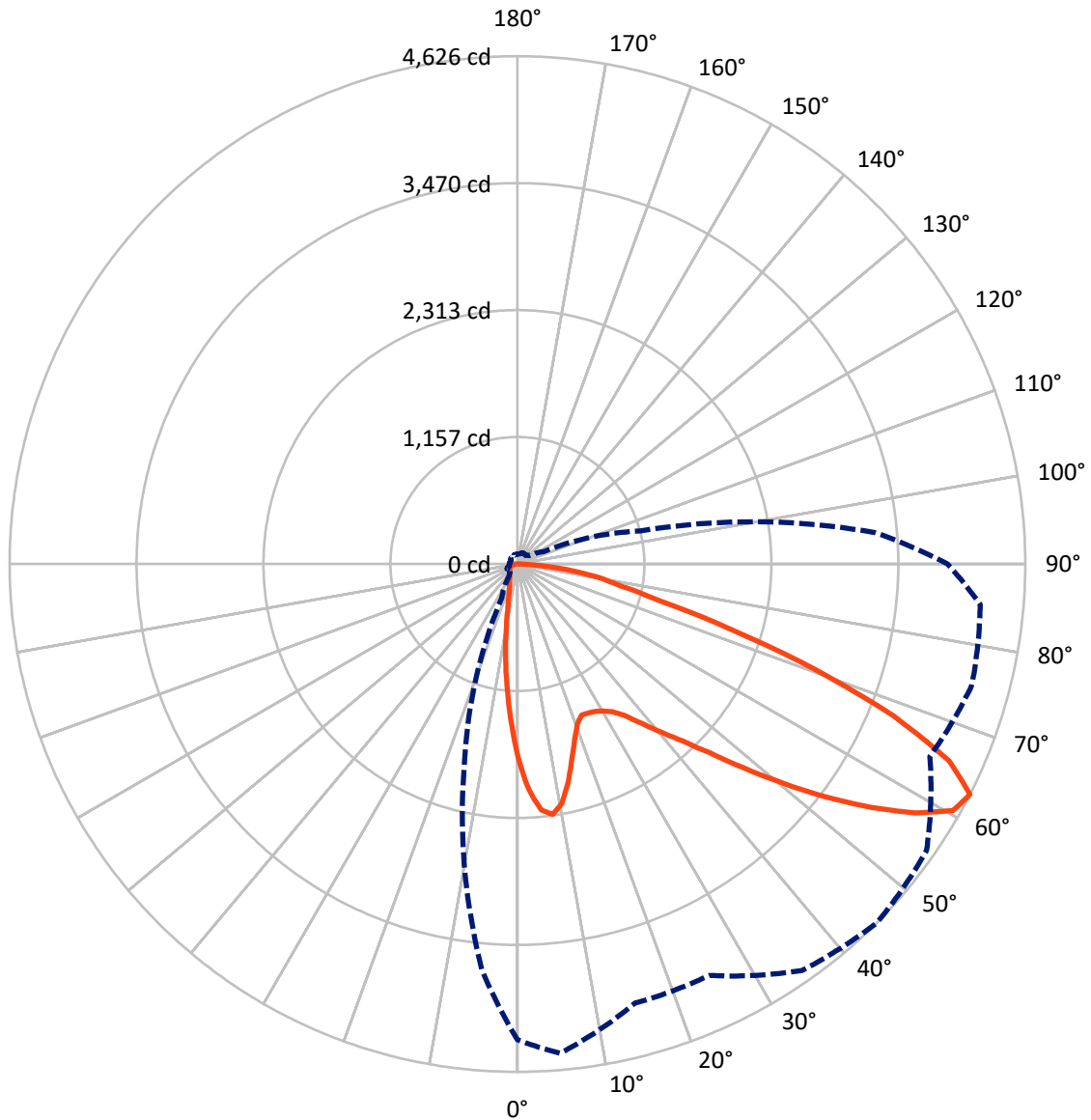
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 881.1 | 0.0 | 881.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 4443.4 | 0.0 | 4443.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 5324.5 | 0.0 | 5324.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.0 | 2.5 |
| 10°-20° | 240.1 | 4.5 |
| 20°-30° | 350.1 | 6.6 |
| 30°-40° | 539.2 | 10.1 |
| 40°-50° | 793.6 | 14.9 |
| 50°-60° | 1164.0 | 21.9 |
| 60°-70° | 1301.2 | 24.4 |
| 70°-80° | 637.1 | 12.0 |
| 80°-90° | 168.2 | 3.2 |
| 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° | 5324.5 | 100.0 |
| 0°-180° | 5324.5 | 100.0 |



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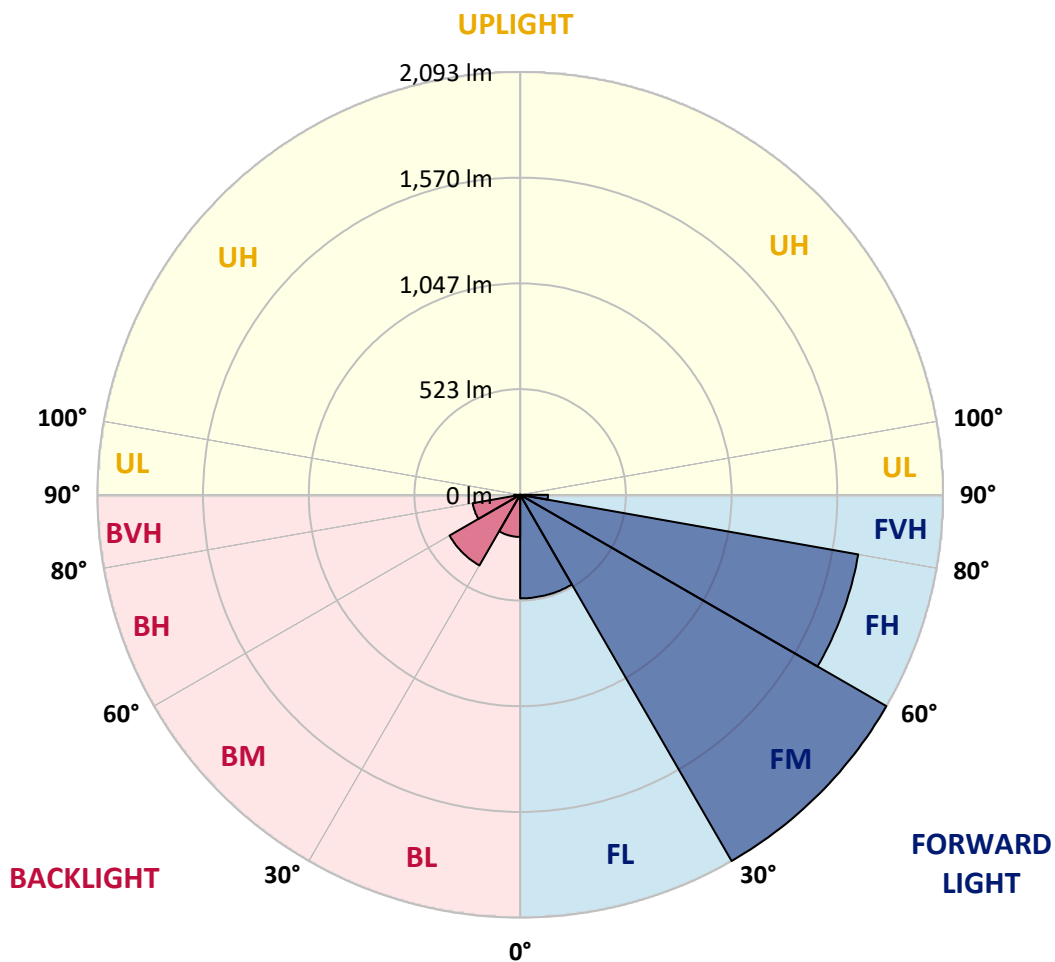
CATALOG NUMBER: GPC-AF-01-LED-E1-SLL-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 512.7 | 9.6 | | | |
| FM | (30°-60°) | 2093.1 | 39.3 | | | |
| FH | (60°-80°) | 1699.4 | 31.9 | | | G1/1800 |
| FVH | (80°-90°) | 138.1 | 2.6 | | | G2/225 |
| BL | (0°-30°) | 208.5 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 403.7 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 238.9 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 30.1 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 |
| 2.5° | 1869.2 | 1898.9 | 1957.2 | 2000.9 | 2053.9 | 2066.1 | 2083.1 | 2066.5 | 2036.8 | 1997.7 | 1984.7 |
| 5° | 1757.7 | 1821.5 | 1962.8 | 2087.2 | 2197.9 | 2249.4 | 2263.6 | 2221.2 | 2135.5 | 2022.9 | 1954.1 |
| 7.5° | 1578.9 | 1669.5 | 1861.0 | 2044.3 | 2207.2 | 2303.6 | 2301.2 | 2202.6 | 2044.8 | 1861.3 | 1750.8 |
| 10° | 1424.5 | 1528.1 | 1747.7 | 1952.6 | 2125.6 | 2219.0 | 2182.9 | 2056.8 | 1868.6 | 1657.3 | 1537.4 |
| 12.5° | 1338.3 | 1439.8 | 1662.6 | 1868.3 | 2012.9 | 2045.1 | 2017.6 | 1894.0 | 1716.8 | 1503.0 | 1398.2 |
| 15° | 1323.4 | 1434.9 | 1628.5 | 1796.0 | 1877.1 | 1849.0 | 1816.3 | 1760.9 | 1635.6 | 1453.3 | 1344.0 |
| 17.5° | 1388.1 | 1510.9 | 1667.6 | 1745.6 | 1731.9 | 1683.1 | 1673.6 | 1679.8 | 1649.6 | 1508.6 | 1382.8 |
| 20° | 1512.0 | 1659.6 | 1760.3 | 1722.0 | 1621.5 | 1554.2 | 1556.6 | 1650.5 | 1739.7 | 1648.7 | 1505.0 |
| 22.5° | 1686.2 | 1854.6 | 1894.0 | 1734.4 | 1575.0 | 1495.0 | 1514.5 | 1666.6 | 1883.4 | 1853.7 | 1670.0 |
| 25° | 1911.7 | 2064.9 | 2036.5 | 1780.3 | 1579.7 | 1502.4 | 1518.0 | 1722.2 | 2053.3 | 2058.6 | 1874.5 |
| 27.5° | 2129.9 | 2272.3 | 2156.3 | 1840.7 | 1599.1 | 1519.8 | 1540.1 | 1809.7 | 2215.4 | 2280.9 | 2108.1 |
| 30° | 2300.3 | 2399.3 | 2203.7 | 1896.1 | 1637.0 | 1553.3 | 1578.9 | 1892.9 | 2289.2 | 2431.2 | 2287.8 |
| 32.5° | 2441.4 | 2512.5 | 2279.2 | 1964.6 | 1707.0 | 1606.3 | 1651.2 | 1993.9 | 2395.4 | 2574.0 | 2463.6 |
| 35° | 2621.8 | 2641.8 | 2373.2 | 2040.9 | 1815.0 | 1698.5 | 1754.1 | 2092.8 | 2496.7 | 2718.4 | 2637.0 |
| 37.5° | 2833.1 | 2806.9 | 2461.8 | 2145.4 | 1954.6 | 1842.9 | 1888.7 | 2201.3 | 2580.1 | 2881.9 | 2814.0 |
| 40° | 3042.0 | 2979.4 | 2573.0 | 2307.7 | 2158.4 | 2012.9 | 2067.3 | 2317.3 | 2657.9 | 3045.9 | 2987.0 |
| 42.5° | 3219.6 | 3126.9 | 2682.9 | 2485.9 | 2348.0 | 2200.5 | 2265.4 | 2434.0 | 2732.4 | 3185.7 | 3137.2 |
| 45° | 3351.0 | 3235.8 | 2787.4 | 2657.0 | 2609.3 | 2449.9 | 2480.6 | 2567.8 | 2812.9 | 3302.4 | 3260.7 |
| 47.5° | 3468.4 | 3345.3 | 2905.6 | 2829.8 | 2837.9 | 2774.1 | 2724.6 | 2723.5 | 2907.6 | 3397.8 | 3377.4 |
| 50° | 3625.6 | 3497.1 | 3032.7 | 3007.7 | 3181.0 | 3138.6 | 3029.4 | 2905.3 | 3027.6 | 3506.3 | 3503.8 |
| 52.5° | 3842.2 | 3737.8 | 3187.7 | 3199.5 | 3501.2 | 3529.0 | 3393.8 | 3123.6 | 3215.6 | 3705.0 | 3690.9 |
| 55° | 4098.3 | 4037.4 | 3399.0 | 3419.8 | 3894.1 | 3913.9 | 3779.6 | 3396.8 | 3491.9 | 3992.6 | 3953.7 |
| 57.5° | 4298.3 | 4285.4 | 3630.9 | 3684.5 | 4187.3 | 4276.9 | 4153.4 | 3712.9 | 3803.3 | 4235.0 | 4137.2 |
| 60° | 4377.9 | 4440.2 | 3877.7 | 3951.5 | 4458.6 | 4557.9 | 4449.6 | 3990.6 | 4079.4 | 4335.4 | 4124.7 |
| 62.5° | 4334.9 | 4474.2 | 4140.5 | 4134.4 | 4519.3 | 4626.1 | 4549.9 | 4145.1 | 4283.8 | 4231.8 | 3916.0 |
| 65° | 4136.1 | 4352.1 | 4293.0 | 4087.2 | 4312.0 | 4320.8 | 4296.2 | 4076.1 | 4332.2 | 3904.4 | 3512.6 |
| 67.5° | 3703.3 | 4014.0 | 4092.1 | 3683.3 | 3752.9 | 3695.8 | 3654.7 | 3698.0 | 4080.6 | 3413.4 | 2952.1 |
| 70° | 3016.2 | 3483.9 | 3521.4 | 2946.0 | 2914.5 | 2876.1 | 2793.8 | 3031.8 | 3583.8 | 2797.6 | 2342.5 |
| 72.5° | 2217.7 | 2709.5 | 2824.5 | 2160.8 | 2014.3 | 2022.3 | 1957.2 | 2284.7 | 2913.8 | 2078.1 | 1748.9 |
| 75° | 1517.3 | 1962.0 | 2209.9 | 1507.6 | 1332.0 | 1335.3 | 1327.1 | 1618.9 | 2320.9 | 1445.6 | 1308.7 |
| 77.5° | 1108.5 | 1401.7 | 1666.6 | 1013.6 | 984.1 | 965.9 | 961.5 | 1132.8 | 1779.4 | 1049.6 | 1016.3 |
| 80° | 889.5 | 1035.6 | 1119.6 | 702.5 | 755.5 | 753.9 | 729.8 | 778.9 | 1162.0 | 767.7 | 760.1 |
| 82.5° | 617.0 | 795.9 | 907.1 | 550.7 | 509.9 | 501.4 | 507.3 | 580.1 | 821.3 | 524.8 | 499.1 |
| 85° | 325.5 | 528.7 | 898.2 | 487.9 | 302.6 | 241.5 | 300.4 | 475.1 | 711.5 | 278.0 | 243.5 |
| 87.5° | 41.5 | 152.8 | 594.8 | 194.7 | 119.5 | 64.4 | 142.6 | 267.5 | 456.9 | 56.9 | 49.4 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 |
| 2.5° | 1951.7 | 1912.9 | 1861.8 | 1814.8 | 1765.9 | 1717.3 | 1653.7 | 1614.0 | 1586.3 | 1581.1 | 1569.5 |
| 5° | 1904.2 | 1775.0 | 1677.1 | 1592.5 | 1515.9 | 1407.6 | 1347.5 | 1297.8 | 1271.2 | 1268.5 | 1262.1 |
| 7.5° | 1685.6 | 1507.0 | 1375.0 | 1255.4 | 1146.7 | 1059.3 | 962.7 | 917.6 | 899.2 | 903.5 | 907.9 |
| 10° | 1458.2 | 1258.5 | 1107.0 | 984.6 | 889.0 | 815.1 | 737.6 | 685.1 | 648.9 | 641.6 | 640.1 |
| 12.5° | 1291.9 | 1073.0 | 925.9 | 839.5 | 765.4 | 696.0 | 613.8 | 552.0 | 504.8 | 488.8 | 478.0 |
| 15° | 1221.8 | 982.2 | 828.1 | 735.0 | 653.2 | 565.3 | 488.8 | 424.1 | 380.8 | 366.8 | 358.9 |
| 17.5° | 1236.6 | 957.1 | 760.8 | 641.6 | 537.0 | 445.2 | 348.9 | 293.6 | 267.5 | 260.8 | 260.8 |
| 20° | 1315.1 | 952.5 | 705.1 | 555.5 | 425.3 | 318.8 | 239.7 | 208.0 | 199.7 | 198.7 | 201.1 |
| 22.5° | 1425.2 | 968.8 | 663.6 | 481.0 | 330.4 | 232.8 | 186.8 | 175.0 | 171.2 | 172.1 | 174.7 |
| 25° | 1589.0 | 1024.2 | 633.3 | 414.5 | 259.3 | 190.5 | 166.5 | 159.4 | 157.7 | 160.1 | 163.3 |
| 27.5° | 1783.5 | 1079.5 | 614.7 | 364.4 | 218.9 | 174.1 | 158.3 | 151.1 | 152.3 | 155.1 | 158.0 |
| 30° | 1954.1 | 1124.9 | 585.1 | 328.7 | 206.3 | 175.0 | 158.3 | 148.4 | 147.2 | 147.9 | 148.7 |
| 32.5° | 2107.2 | 1155.6 | 550.7 | 294.7 | 178.0 | 155.4 | 147.9 | 146.3 | 139.9 | 137.6 | 137.9 |
| 35° | 2239.1 | 1155.6 | 529.8 | 274.8 | 159.4 | 137.9 | 125.6 | 118.2 | 115.1 | 115.3 | 118.5 |
| 37.5° | 2366.4 | 1132.5 | 519.5 | 263.7 | 149.6 | 131.2 | 120.4 | 113.8 | 109.5 | 108.5 | 109.1 |
| 40° | 2478.9 | 1098.7 | 507.8 | 259.0 | 141.9 | 127.0 | 116.8 | 111.5 | 106.9 | 105.5 | 105.7 |
| 42.5° | 2569.1 | 1071.6 | 495.0 | 253.0 | 137.4 | 124.1 | 114.4 | 109.8 | 104.6 | 103.0 | 102.8 |
| 45° | 2666.4 | 1062.4 | 478.0 | 240.6 | 139.6 | 124.3 | 113.8 | 108.9 | 103.7 | 101.9 | 101.2 |
| 47.5° | 2794.9 | 1090.9 | 460.4 | 226.0 | 144.5 | 125.9 | 114.8 | 108.9 | 103.3 | 101.9 | 101.2 |
| 50° | 2956.9 | 1157.6 | 438.2 | 204.6 | 139.6 | 130.0 | 114.4 | 107.9 | 103.3 | 101.9 | 100.7 |
| 52.5° | 3164.5 | 1247.7 | 408.9 | 180.0 | 136.7 | 139.9 | 113.8 | 106.3 | 101.9 | 99.8 | 97.7 |
| 55° | 3417.2 | 1321.5 | 374.1 | 159.8 | 130.0 | 137.4 | 112.9 | 104.3 | 99.5 | 96.6 | 94.9 |
| 57.5° | 3602.3 | 1348.1 | 329.3 | 146.7 | 120.6 | 132.9 | 111.7 | 101.6 | 96.6 | 94.2 | 91.8 |
| 60° | 3565.6 | 1296.7 | 291.5 | 138.5 | 115.1 | 120.1 | 110.9 | 99.3 | 94.0 | 92.2 | 90.2 |
| 62.5° | 3272.6 | 1162.0 | 267.2 | 134.7 | 111.5 | 109.5 | 111.7 | 96.8 | 91.5 | 89.9 | 89.3 |
| 65° | 2833.3 | 963.3 | 257.5 | 133.8 | 108.5 | 103.3 | 103.9 | 94.2 | 89.0 | 87.6 | 87.0 |
| 67.5° | 2337.2 | 777.5 | 249.1 | 136.7 | 104.8 | 99.0 | 95.9 | 90.6 | 86.3 | 84.9 | 83.7 |
| 70° | 1843.1 | 646.6 | 245.2 | 134.9 | 100.2 | 94.5 | 91.3 | 87.0 | 83.2 | 81.7 | 80.8 |
| 72.5° | 1484.3 | 546.2 | 243.3 | 133.2 | 94.0 | 88.8 | 85.8 | 81.9 | 77.9 | 77.3 | 76.4 |
| 75° | 1256.0 | 429.4 | 222.7 | 127.6 | 87.0 | 81.7 | 79.6 | 76.0 | 72.0 | 72.0 | 71.4 |
| 77.5° | 968.8 | 310.5 | 185.3 | 112.9 | 79.6 | 73.8 | 72.0 | 69.3 | 64.7 | 65.5 | 65.2 |
| 80° | 715.6 | 202.6 | 144.8 | 93.7 | 70.5 | 64.9 | 64.0 | 61.4 | 56.6 | 57.6 | 57.6 |
| 82.5° | 490.3 | 132.9 | 104.3 | 76.6 | 60.2 | 55.1 | 55.1 | 52.5 | 46.8 | 47.4 | 49.1 |
| 85° | 246.1 | 91.3 | 77.9 | 59.4 | 46.8 | 44.1 | 44.1 | 42.1 | 36.7 | 36.9 | 39.3 |
| 87.5° | 74.9 | 55.1 | 51.6 | 42.4 | 33.6 | 33.1 | 31.6 | 30.2 | 26.6 | 26.3 | 27.8 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 |
| 2.5° | 1551.6 | 1534.9 | 1514.7 | 1470.3 | 1455.3 | 1454.4 | 1467.9 | 1453.8 | 1480.8 | 1469.4 | 1481.9 |
| 5° | 1251.2 | 1234.9 | 1212.4 | 1155.6 | 1121.1 | 1097.5 | 1086.5 | 1053.7 | 1077.3 | 1060.2 | 1074.6 |
| 7.5° | 920.3 | 924.0 | 909.2 | 875.8 | 800.5 | 762.8 | 740.6 | 720.6 | 737.9 | 736.2 | 763.6 |
| 10° | 646.9 | 657.1 | 646.6 | 613.0 | 552.0 | 531.3 | 535.3 | 543.3 | 565.8 | 577.5 | 619.9 |
| 12.5° | 465.7 | 465.1 | 458.3 | 428.2 | 388.1 | 390.5 | 407.1 | 420.9 | 441.6 | 454.0 | 497.3 |
| 15° | 347.7 | 342.4 | 339.5 | 314.9 | 292.0 | 297.1 | 305.2 | 306.7 | 319.9 | 327.3 | 362.3 |
| 17.5° | 262.8 | 265.4 | 268.8 | 251.2 | 233.9 | 230.7 | 224.1 | 216.3 | 220.2 | 221.6 | 239.0 |
| 20° | 208.6 | 219.2 | 227.1 | 214.9 | 197.3 | 187.9 | 179.8 | 174.5 | 174.5 | 174.1 | 179.1 |
| 22.5° | 182.4 | 189.9 | 198.4 | 189.9 | 174.1 | 165.9 | 161.2 | 157.2 | 156.6 | 156.6 | 161.2 |
| 25° | 168.1 | 173.6 | 181.7 | 175.9 | 164.2 | 158.0 | 153.7 | 148.4 | 146.3 | 145.7 | 148.9 |
| 27.5° | 160.9 | 163.3 | 167.4 | 162.1 | 152.3 | 149.3 | 148.1 | 143.4 | 140.8 | 139.3 | 142.6 |
| 30° | 148.9 | 148.4 | 148.7 | 143.4 | 135.6 | 135.3 | 137.4 | 138.2 | 137.4 | 137.0 | 141.9 |
| 32.5° | 137.9 | 136.7 | 136.5 | 131.7 | 124.3 | 122.7 | 124.3 | 126.1 | 128.2 | 131.2 | 137.0 |
| 35° | 123.7 | 126.8 | 128.5 | 124.3 | 115.6 | 110.3 | 108.2 | 105.1 | 103.3 | 103.3 | 110.0 |
| 37.5° | 112.6 | 119.5 | 122.1 | 118.2 | 108.5 | 101.2 | 97.7 | 97.1 | 97.5 | 98.6 | 105.1 |
| 40° | 108.9 | 113.8 | 116.2 | 112.4 | 102.8 | 95.9 | 94.0 | 93.3 | 94.0 | 95.7 | 102.1 |
| 42.5° | 106.5 | 110.0 | 109.8 | 105.1 | 97.1 | 92.4 | 91.3 | 90.6 | 91.3 | 93.1 | 100.2 |
| 45° | 104.6 | 106.9 | 104.6 | 99.0 | 91.5 | 89.3 | 89.7 | 89.3 | 89.9 | 91.5 | 98.4 |
| 47.5° | 102.8 | 103.7 | 100.7 | 95.1 | 87.6 | 87.0 | 88.2 | 89.0 | 89.7 | 91.0 | 98.1 |
| 50° | 100.2 | 100.2 | 97.5 | 91.5 | 84.0 | 84.4 | 85.8 | 87.9 | 88.2 | 89.9 | 95.4 |
| 52.5° | 96.8 | 96.6 | 94.9 | 89.3 | 81.0 | 81.9 | 81.9 | 84.4 | 84.9 | 87.0 | 92.7 |
| 55° | 94.2 | 93.7 | 92.7 | 87.6 | 78.4 | 79.9 | 79.1 | 79.9 | 81.3 | 83.5 | 89.9 |
| 57.5° | 91.8 | 90.6 | 90.6 | 86.1 | 76.4 | 77.0 | 74.9 | 76.0 | 77.9 | 79.6 | 86.3 |
| 60° | 89.7 | 88.5 | 89.0 | 84.0 | 73.2 | 72.7 | 71.8 | 74.0 | 74.6 | 76.6 | 83.5 |
| 62.5° | 87.0 | 86.1 | 86.3 | 81.7 | 70.8 | 69.3 | 69.3 | 71.4 | 71.8 | 74.6 | 81.0 |
| 65° | 84.9 | 83.7 | 83.5 | 79.3 | 68.2 | 66.5 | 67.4 | 68.2 | 68.8 | 71.8 | 77.9 |
| 67.5° | 82.9 | 80.5 | 80.5 | 77.3 | 65.2 | 63.5 | 65.2 | 64.9 | 65.8 | 68.5 | 73.5 |
| 70° | 80.2 | 77.0 | 77.3 | 75.7 | 62.3 | 60.2 | 61.8 | 61.4 | 62.1 | 63.8 | 68.8 |
| 72.5° | 76.0 | 73.5 | 74.0 | 73.5 | 59.4 | 56.6 | 57.1 | 57.1 | 57.1 | 58.5 | 63.8 |
| 75° | 70.8 | 68.8 | 70.5 | 72.0 | 56.0 | 51.8 | 52.5 | 52.5 | 51.6 | 52.5 | 58.7 |
| 77.5° | 64.4 | 63.2 | 69.1 | 67.1 | 51.8 | 46.8 | 46.8 | 46.3 | 44.5 | 45.6 | 52.7 |
| 80° | 57.4 | 56.6 | 63.8 | 56.2 | 47.2 | 40.8 | 40.2 | 38.6 | 36.9 | 37.8 | 44.7 |
| 82.5° | 50.0 | 49.1 | 53.5 | 42.9 | 40.8 | 33.6 | 32.2 | 29.6 | 27.8 | 28.7 | 35.2 |
| 85° | 41.1 | 41.1 | 41.2 | 32.5 | 31.0 | 25.7 | 24.1 | 20.5 | 18.4 | 19.0 | 25.2 |
| 87.5° | 29.3 | 30.2 | 27.8 | 22.3 | 18.4 | 14.4 | 13.1 | 11.0 | 9.3 | 10.8 | 13.1 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 |
| 2.5° | 1546.3 | 1578.5 | 1615.2 | 1662.0 | 1702.0 | 1767.9 | 1831.1 | 1869.2 |
| 5° | 1156.2 | 1209.7 | 1276.4 | 1362.2 | 1442.0 | 1562.2 | 1681.3 | 1757.7 |
| 7.5° | 827.5 | 884.8 | 956.9 | 1064.0 | 1176.9 | 1330.0 | 1487.6 | 1578.9 |
| 10° | 684.6 | 743.4 | 804.1 | 876.3 | 968.8 | 1135.4 | 1321.5 | 1424.5 |
| 12.5° | 566.4 | 629.4 | 694.6 | 770.7 | 856.4 | 1005.2 | 1219.7 | 1338.3 |
| 15° | 433.5 | 503.7 | 580.8 | 677.1 | 784.4 | 956.2 | 1194.4 | 1323.4 |
| 17.5° | 297.1 | 375.5 | 470.1 | 588.8 | 720.4 | 940.4 | 1239.7 | 1388.1 |
| 20° | 204.6 | 261.6 | 362.6 | 502.0 | 660.1 | 938.4 | 1326.2 | 1512.0 |
| 22.5° | 171.2 | 196.6 | 270.5 | 422.1 | 614.7 | 963.5 | 1460.6 | 1686.2 |
| 25° | 158.3 | 173.6 | 216.0 | 352.8 | 581.7 | 1021.6 | 1645.5 | 1911.7 |
| 27.5° | 150.7 | 164.5 | 196.1 | 307.3 | 555.5 | 1088.8 | 1825.5 | 2129.9 |
| 30° | 153.7 | 167.8 | 190.5 | 284.3 | 520.1 | 1145.0 | 1985.3 | 2300.3 |
| 32.5° | 138.5 | 144.5 | 163.3 | 263.7 | 494.6 | 1192.1 | 2125.3 | 2441.4 |
| 35° | 117.9 | 128.7 | 145.7 | 254.1 | 495.2 | 1223.9 | 2277.7 | 2621.8 |
| 37.5° | 112.4 | 123.2 | 135.6 | 250.5 | 502.0 | 1257.4 | 2452.8 | 2833.1 |
| 40° | 108.9 | 118.8 | 129.4 | 248.6 | 508.4 | 1288.2 | 2624.3 | 3042.0 |
| 42.5° | 106.5 | 115.6 | 128.7 | 241.5 | 511.7 | 1315.7 | 2765.4 | 3219.6 |
| 45° | 106.3 | 115.6 | 131.2 | 234.5 | 516.6 | 1345.2 | 2883.6 | 3351.0 |
| 47.5° | 106.5 | 119.5 | 126.8 | 226.0 | 516.6 | 1394.7 | 3022.3 | 3468.4 |
| 50° | 105.5 | 125.9 | 122.1 | 213.9 | 504.6 | 1488.3 | 3212.7 | 3625.6 |
| 52.5° | 104.8 | 125.0 | 112.9 | 195.6 | 483.8 | 1637.0 | 3456.5 | 3842.2 |
| 55° | 103.3 | 120.6 | 106.5 | 168.1 | 459.6 | 1799.2 | 3717.5 | 4098.3 |
| 57.5° | 101.9 | 106.9 | 103.0 | 144.0 | 422.1 | 1913.4 | 3897.2 | 4298.3 |
| 60° | 114.2 | 93.3 | 100.2 | 132.3 | 372.0 | 1944.7 | 3890.2 | 4377.9 |
| 62.5° | 105.7 | 87.6 | 96.3 | 129.6 | 337.0 | 1856.8 | 3710.4 | 4334.9 |
| 65° | 82.9 | 83.7 | 92.4 | 137.4 | 327.5 | 1624.1 | 3392.1 | 4136.1 |
| 67.5° | 75.7 | 79.9 | 88.8 | 147.0 | 328.4 | 1300.4 | 2916.2 | 3703.3 |
| 70° | 71.4 | 75.7 | 84.4 | 152.0 | 330.8 | 969.5 | 2305.6 | 3016.2 |
| 72.5° | 66.5 | 70.2 | 79.3 | 152.8 | 315.6 | 704.2 | 1776.9 | 2217.7 |
| 75° | 60.5 | 64.0 | 72.4 | 133.2 | 261.3 | 488.5 | 1359.2 | 1517.3 |
| 77.5° | 53.9 | 56.6 | 63.5 | 102.8 | 194.0 | 312.6 | 1020.4 | 1108.5 |
| 80° | 46.0 | 47.4 | 53.3 | 75.2 | 132.9 | 195.6 | 807.2 | 889.5 |
| 82.5° | 36.9 | 37.5 | 41.2 | 56.6 | 86.3 | 125.6 | 540.6 | 617.0 |
| 85° | 26.1 | 26.1 | 28.3 | 41.1 | 58.7 | 79.6 | 293.6 | 325.5 |
| 87.5° | 12.2 | 12.5 | 12.5 | 22.5 | 30.7 | 40.5 | 67.6 | 41.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)