

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: P200577

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5838 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

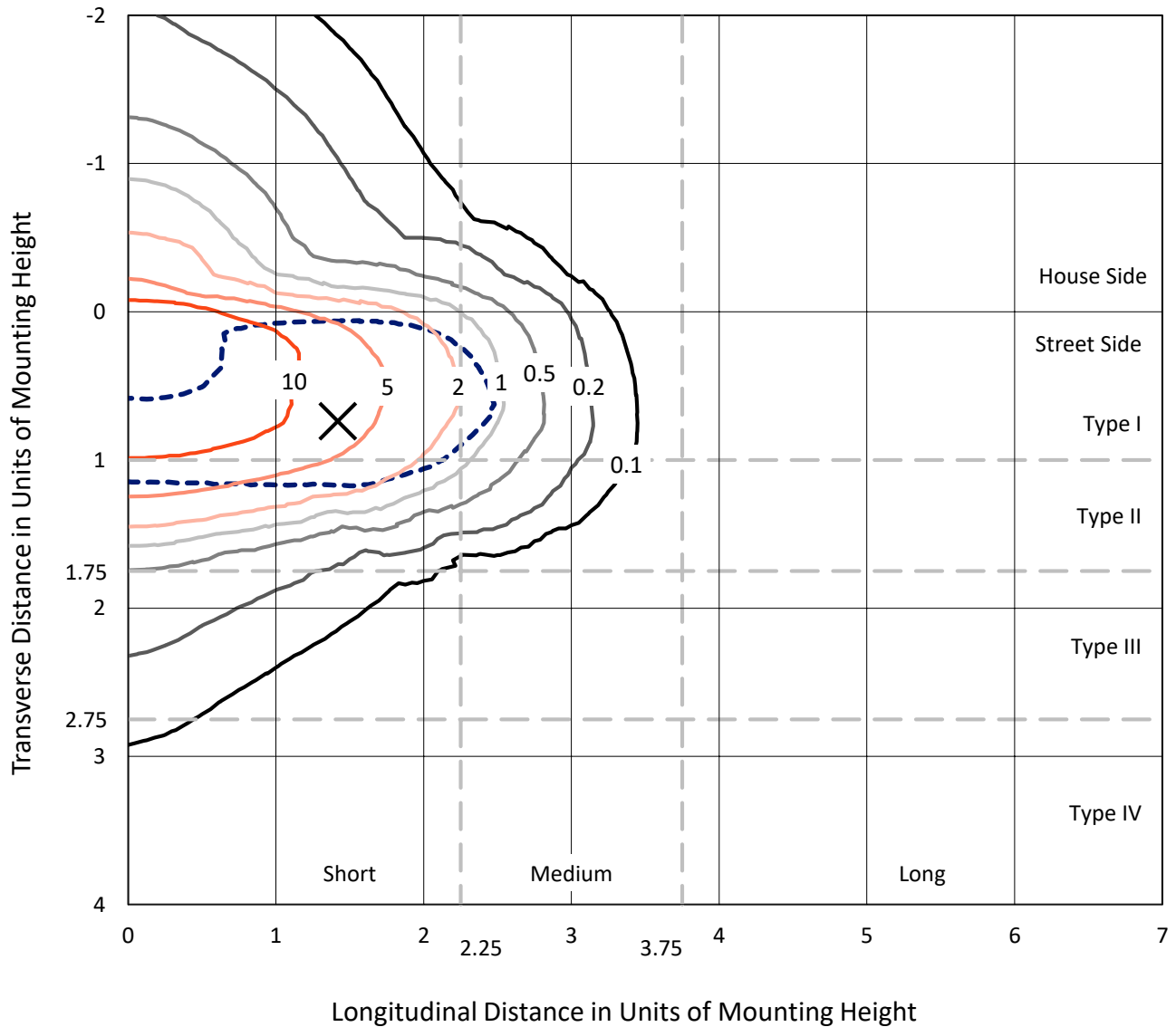
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

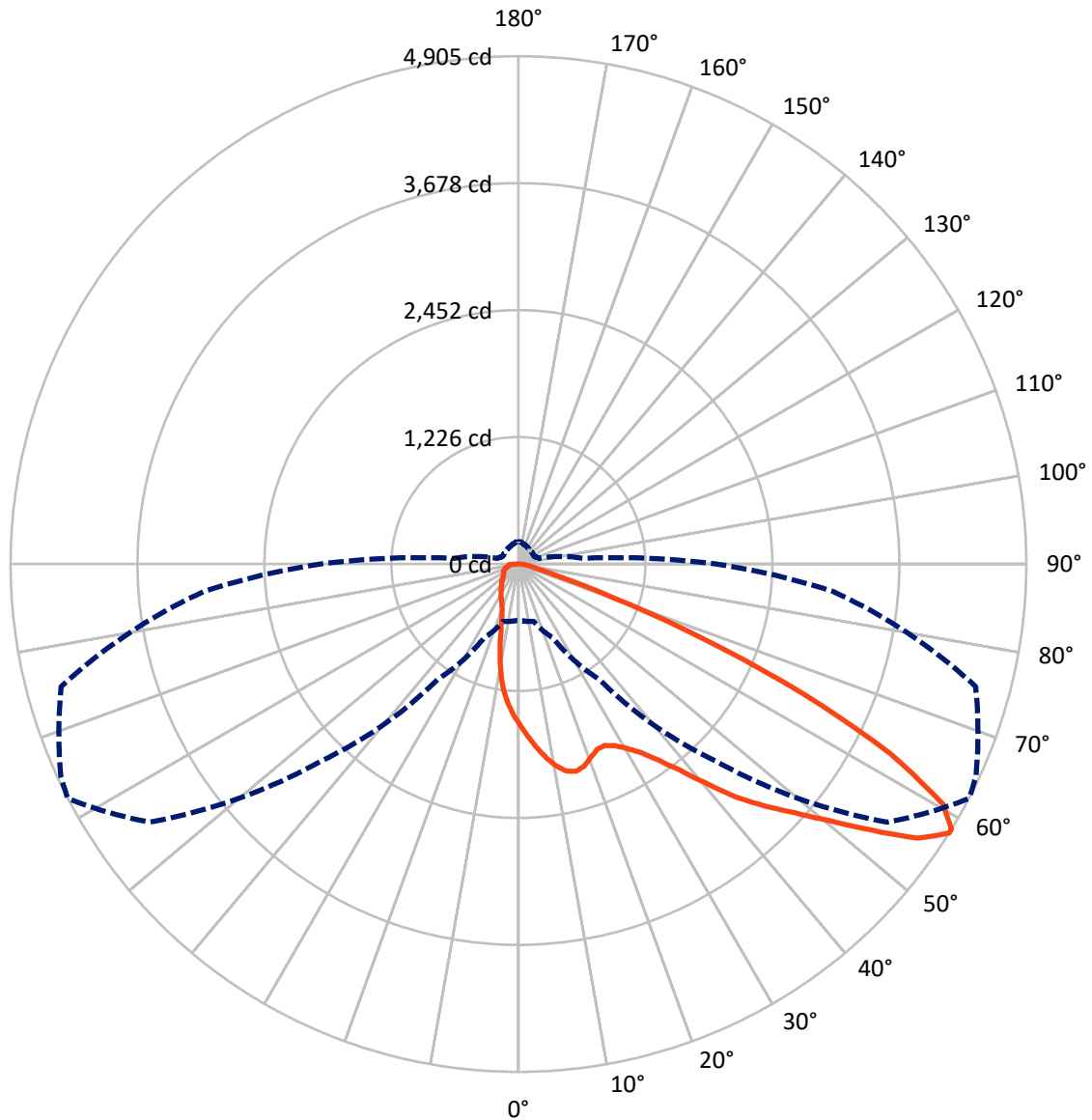
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 890.3 | 0.0 | 890.3 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 4947.7 | 0.0 | 4947.7 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 5838.0 | 0.0 | 5838.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.7 | 2.4 |
| 10°-20° | 354.5 | 6.1 |
| 20°-30° | 573.1 | 9.8 |
| 30°-40° | 909.8 | 15.6 |
| 40°-50° | 1331.2 | 22.8 |
| 50°-60° | 1392.3 | 23.8 |
| 60°-70° | 822.6 | 14.1 |
| 70°-80° | 231.7 | 4.0 |
| 80°-90° | 84.1 | 1.4 |
| 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° | 5838.0 | 100.0 |
| 0°-180° | 5838.0 | 100.0 |



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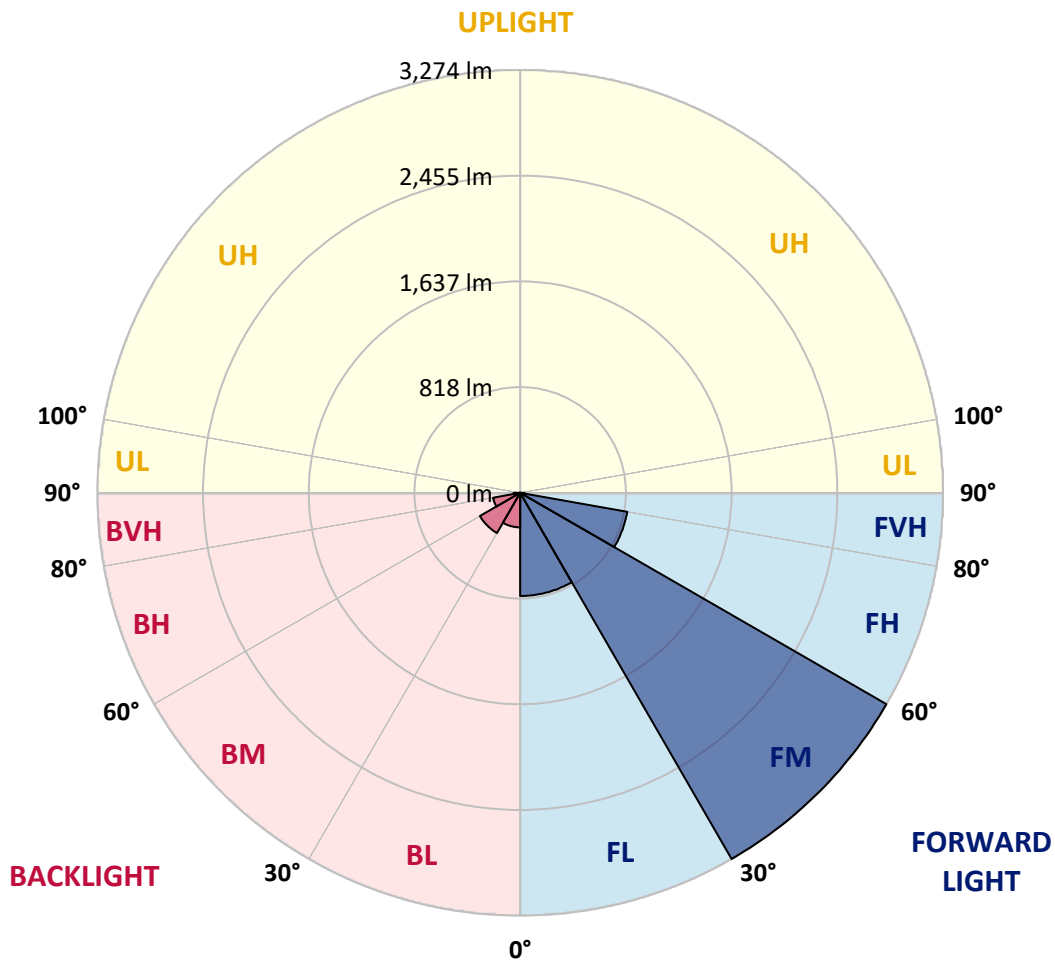
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 798.7 | 13.7 | | | |
| FM | (30°-60°) | 3273.9 | 56.1 | | | |
| FH | (60°-80°) | 841.9 | 14.4 | | | G1/1800 |
| FVH | (80°-90°) | 33.2 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 267.6 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 359.4 | 6.2 | B1/1000 | | |
| BH | (60°-80°) | 212.4 | 3.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 50.9 | 0.9 | | | 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° | 62.5° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 |
| 2.5° | 1772.0 | 1757.8 | 1748.7 | 1740.7 | 1730.3 | 1708.0 | 1678.0 | 1659.1 | 1649.4 | 1616.7 | 1578.0 |
| 5° | 1945.8 | 1933.1 | 1923.8 | 1913.1 | 1894.4 | 1859.5 | 1811.1 | 1772.6 | 1753.6 | 1688.2 | 1610.7 |
| 7.5° | 1905.1 | 1910.3 | 1926.5 | 1954.9 | 1979.0 | 1974.4 | 1931.2 | 1882.3 | 1857.3 | 1766.3 | 1648.6 |
| 10° | 1659.9 | 1669.0 | 1697.0 | 1763.2 | 1870.5 | 1980.4 | 2014.0 | 1980.1 | 1954.9 | 1843.5 | 1687.6 |
| 12.5° | 1610.7 | 1610.4 | 1612.6 | 1630.2 | 1694.0 | 1848.7 | 2016.7 | 2050.8 | 2035.7 | 1917.2 | 1727.5 |
| 15° | 1630.7 | 1631.3 | 1629.6 | 1637.1 | 1656.9 | 1718.2 | 1932.6 | 2078.0 | 2088.7 | 1991.4 | 1768.7 |
| 17.5° | 1683.5 | 1682.2 | 1675.8 | 1675.8 | 1683.0 | 1706.9 | 1833.6 | 2052.7 | 2102.2 | 2057.1 | 1805.0 |
| 20° | 1772.0 | 1765.7 | 1749.0 | 1733.6 | 1725.9 | 1738.8 | 1792.9 | 1994.4 | 2078.8 | 2114.6 | 1835.0 |
| 22.5° | 1879.3 | 1874.3 | 1847.1 | 1814.1 | 1787.4 | 1787.2 | 1813.8 | 1943.6 | 2038.4 | 2168.7 | 1860.3 |
| 25° | 2017.8 | 2009.8 | 1969.4 | 1916.6 | 1869.9 | 1852.0 | 1859.5 | 1941.1 | 2016.4 | 2227.6 | 1882.8 |
| 27.5° | 2180.6 | 2166.0 | 2118.2 | 2042.0 | 1973.3 | 1937.3 | 1926.5 | 1985.9 | 2036.5 | 2300.4 | 1914.2 |
| 30° | 2377.9 | 2361.2 | 2299.9 | 2200.6 | 2103.6 | 2044.5 | 2021.7 | 2065.4 | 2103.0 | 2389.2 | 1964.5 |
| 32.5° | 2602.5 | 2578.3 | 2507.4 | 2398.0 | 2270.5 | 2180.3 | 2143.2 | 2170.4 | 2200.3 | 2496.1 | 2027.4 |
| 35° | 2912.9 | 2884.0 | 2781.5 | 2630.6 | 2486.5 | 2362.5 | 2303.2 | 2323.0 | 2352.1 | 2655.6 | 2118.4 |
| 37.5° | 3124.6 | 3111.7 | 3043.5 | 2901.6 | 2744.9 | 2602.3 | 2510.4 | 2522.0 | 2538.5 | 2854.9 | 2235.0 |
| 40° | 3122.7 | 3127.9 | 3129.3 | 3130.6 | 3024.0 | 2887.3 | 2788.6 | 2776.6 | 2773.3 | 3073.7 | 2367.5 |
| 42.5° | 2966.2 | 2987.7 | 3057.0 | 3197.4 | 3262.3 | 3199.6 | 3109.2 | 3074.3 | 3057.0 | 3331.6 | 2508.0 |
| 45° | 2726.8 | 2738.3 | 2868.1 | 3142.5 | 3384.4 | 3508.9 | 3440.5 | 3330.5 | 3299.1 | 3568.6 | 2624.5 |
| 47.5° | 2603.4 | 2616.0 | 2697.7 | 2996.8 | 3383.0 | 3758.8 | 3798.4 | 3588.9 | 3532.8 | 3774.7 | 2725.1 |
| 50° | 2309.5 | 2335.9 | 2438.7 | 2743.3 | 3259.6 | 3873.7 | 4172.5 | 3896.8 | 3780.8 | 3975.4 | 2826.0 |
| 52.5° | 1769.8 | 1810.5 | 1925.7 | 2326.5 | 2946.4 | 3816.8 | 4471.9 | 4270.1 | 4106.3 | 4183.2 | 2912.6 |
| 55° | 1116.4 | 1146.6 | 1243.4 | 1643.1 | 2357.0 | 3520.7 | 4585.4 | 4674.0 | 4528.3 | 4380.1 | 2987.7 |
| 57.5° | 607.0 | 620.5 | 656.8 | 907.2 | 1533.2 | 2866.2 | 4419.9 | 4903.8 | 4843.3 | 4547.2 | 3044.3 |
| 58° | 543.2 | 552.3 | 574.8 | 786.2 | 1359.7 | 2687.2 | 4346.5 | 4904.6 | 4874.4 | 4571.7 | 3048.7 |
| 60° | 403.0 | 398.3 | 378.3 | 448.6 | 756.8 | 1856.4 | 3902.8 | 4708.3 | 4797.1 | 4601.7 | 3027.3 |
| 62.5° | 354.1 | 342.8 | 301.8 | 297.2 | 368.1 | 855.2 | 2986.3 | 4033.1 | 4242.9 | 4430.7 | 2897.0 |
| 65° | 332.6 | 320.5 | 267.8 | 250.7 | 265.6 | 361.8 | 1759.1 | 3024.8 | 3287.9 | 3912.2 | 2563.8 |
| 67.5° | 316.7 | 301.0 | 246.0 | 222.7 | 223.8 | 239.2 | 705.1 | 1905.1 | 2201.2 | 2970.4 | 1994.2 |
| 70° | 301.3 | 284.3 | 227.6 | 200.7 | 194.4 | 189.1 | 280.4 | 953.6 | 1222.2 | 1876.2 | 1271.4 |
| 72.5° | 284.8 | 268.0 | 211.4 | 183.4 | 171.0 | 153.7 | 183.1 | 390.1 | 544.9 | 887.7 | 576.8 |
| 75° | 260.9 | 245.8 | 195.2 | 168.0 | 150.4 | 127.3 | 138.3 | 203.7 | 244.4 | 353.5 | 277.9 |
| 77.5° | 231.5 | 219.1 | 177.0 | 155.3 | 133.3 | 103.4 | 106.4 | 141.3 | 156.7 | 202.3 | 165.2 |
| 80° | 166.3 | 170.7 | 157.5 | 139.7 | 118.8 | 83.8 | 81.6 | 103.1 | 111.3 | 130.0 | 107.5 |
| 82.5° | 116.8 | 119.3 | 130.3 | 114.1 | 98.1 | 66.0 | 60.2 | 72.6 | 77.5 | 85.5 | 58.0 |
| 85° | 80.5 | 77.8 | 89.3 | 79.4 | 70.9 | 44.0 | 41.2 | 49.2 | 52.2 | 53.1 | 30.0 |
| 87.5° | 48.4 | 48.4 | 51.7 | 42.6 | 38.2 | 22.8 | 22.3 | 28.0 | 30.0 | 28.6 | 16.5 |
| 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° | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 | 1550.7 |
| 2.5° | 1554.9 | 1535.4 | 1493.8 | 1460.6 | 1418.5 | 1374.8 | 1350.3 | 1324.2 | 1306.4 | 1293.4 | 1314.1 |
| 5° | 1566.7 | 1526.8 | 1441.1 | 1359.7 | 1269.8 | 1176.3 | 1105.4 | 1039.4 | 993.5 | 964.9 | 991.9 |
| 7.5° | 1585.4 | 1524.1 | 1387.5 | 1248.3 | 1087.0 | 931.4 | 792.3 | 705.1 | 654.3 | 629.3 | 644.9 |
| 10° | 1606.8 | 1519.7 | 1324.5 | 1097.4 | 866.5 | 670.5 | 566.6 | 531.4 | 519.8 | 515.2 | 517.4 |
| 12.5° | 1624.7 | 1510.3 | 1247.2 | 914.9 | 650.7 | 529.5 | 499.5 | 498.7 | 501.2 | 501.7 | 502.5 |
| 15° | 1637.3 | 1496.6 | 1132.6 | 724.7 | 520.4 | 482.5 | 480.8 | 485.8 | 490.4 | 492.4 | 493.5 |
| 17.5° | 1645.9 | 1468.3 | 1003.1 | 572.9 | 466.2 | 459.6 | 463.5 | 469.8 | 474.8 | 476.1 | 477.2 |
| 20° | 1645.0 | 1426.8 | 848.9 | 477.8 | 436.8 | 436.8 | 443.4 | 448.4 | 448.6 | 447.0 | 447.8 |
| 22.5° | 1636.5 | 1369.9 | 699.4 | 427.2 | 410.7 | 415.4 | 422.0 | 417.3 | 398.1 | 385.4 | 386.2 |
| 25° | 1622.2 | 1302.0 | 571.3 | 395.0 | 386.5 | 394.8 | 392.8 | 357.7 | 330.2 | 317.8 | 317.8 |
| 27.5° | 1609.6 | 1221.7 | 472.8 | 367.0 | 362.3 | 372.5 | 338.4 | 306.5 | 295.0 | 289.2 | 287.3 |
| 30° | 1600.5 | 1135.1 | 407.1 | 340.1 | 339.5 | 332.1 | 293.6 | 284.8 | 282.9 | 278.2 | 276.6 |
| 32.5° | 1602.7 | 1047.4 | 365.1 | 316.4 | 318.3 | 284.3 | 272.2 | 274.1 | 272.4 | 267.5 | 265.3 |
| 35° | 1620.8 | 964.1 | 337.6 | 295.0 | 289.2 | 256.8 | 259.5 | 263.1 | 262.5 | 255.7 | 253.5 |
| 37.5° | 1653.3 | 885.2 | 319.4 | 277.1 | 252.4 | 243.0 | 247.4 | 252.9 | 251.5 | 246.9 | 245.2 |
| 40° | 1687.4 | 811.0 | 304.6 | 263.1 | 230.6 | 233.7 | 237.5 | 240.5 | 241.9 | 243.3 | 242.2 |
| 42.5° | 1720.6 | 733.4 | 286.5 | 248.8 | 221.6 | 224.9 | 226.5 | 229.5 | 237.0 | 242.2 | 241.9 |
| 45° | 1740.4 | 660.6 | 267.8 | 228.4 | 214.4 | 216.4 | 215.3 | 221.3 | 230.4 | 238.9 | 239.2 |
| 47.5° | 1762.4 | 604.0 | 252.9 | 209.8 | 207.6 | 208.9 | 205.6 | 211.7 | 219.9 | 230.4 | 231.5 |
| 50° | 1789.1 | 570.2 | 241.1 | 194.9 | 198.2 | 198.2 | 197.4 | 202.9 | 214.4 | 226.5 | 228.7 |
| 52.5° | 1819.3 | 563.6 | 231.2 | 184.2 | 188.9 | 188.6 | 189.4 | 197.7 | 210.3 | 222.1 | 224.0 |
| 55° | 1856.2 | 581.4 | 220.5 | 176.2 | 179.8 | 180.9 | 183.6 | 193.0 | 203.7 | 217.2 | 218.0 |
| 57.5° | 1899.1 | 617.7 | 212.0 | 169.9 | 171.5 | 175.1 | 179.5 | 188.0 | 199.6 | 214.4 | 215.3 |
| 58° | 1906.2 | 625.4 | 210.6 | 169.3 | 169.9 | 174.0 | 179.0 | 187.2 | 198.8 | 215.0 | 215.8 |
| 60° | 1906.5 | 651.0 | 207.6 | 166.9 | 163.6 | 170.4 | 175.9 | 184.2 | 197.4 | 216.9 | 218.8 |
| 62.5° | 1838.8 | 650.7 | 205.4 | 163.3 | 157.0 | 165.5 | 171.8 | 181.4 | 196.0 | 221.6 | 225.4 |
| 65° | 1619.2 | 591.3 | 194.9 | 157.8 | 151.7 | 161.1 | 168.2 | 179.5 | 199.9 | 241.9 | 244.4 |
| 67.5° | 1266.5 | 484.7 | 175.4 | 150.1 | 144.9 | 156.7 | 166.0 | 179.2 | 204.0 | 246.6 | 248.2 |
| 70° | 837.4 | 362.6 | 153.9 | 141.3 | 137.7 | 151.5 | 167.1 | 188.6 | 199.3 | 236.7 | 232.3 |
| 72.5° | 434.6 | 254.6 | 136.6 | 130.3 | 129.5 | 146.8 | 183.1 | 187.5 | 194.6 | 222.7 | 217.2 |
| 75° | 228.2 | 176.8 | 121.5 | 118.2 | 119.6 | 145.7 | 216.1 | 182.5 | 188.6 | 213.1 | 223.5 |
| 77.5° | 139.7 | 142.7 | 108.6 | 107.2 | 110.0 | 142.4 | 215.8 | 176.2 | 179.8 | 196.0 | 207.6 |
| 80° | 93.5 | 115.7 | 98.7 | 99.0 | 100.9 | 130.3 | 193.8 | 166.3 | 169.1 | 185.3 | 197.1 |
| 82.5° | 59.1 | 68.5 | 89.6 | 94.3 | 91.8 | 107.5 | 164.7 | 151.5 | 155.3 | 212.0 | 224.0 |
| 85° | 30.0 | 42.9 | 77.8 | 90.7 | 82.7 | 75.3 | 133.6 | 132.8 | 134.7 | 152.8 | 159.7 |
| 87.5° | 13.7 | 23.6 | 60.8 | 79.2 | 62.4 | 47.0 | 97.0 | 98.4 | 106.1 | 108.6 | 108.6 |
| 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)