

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: P199992

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL4-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11415.4 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

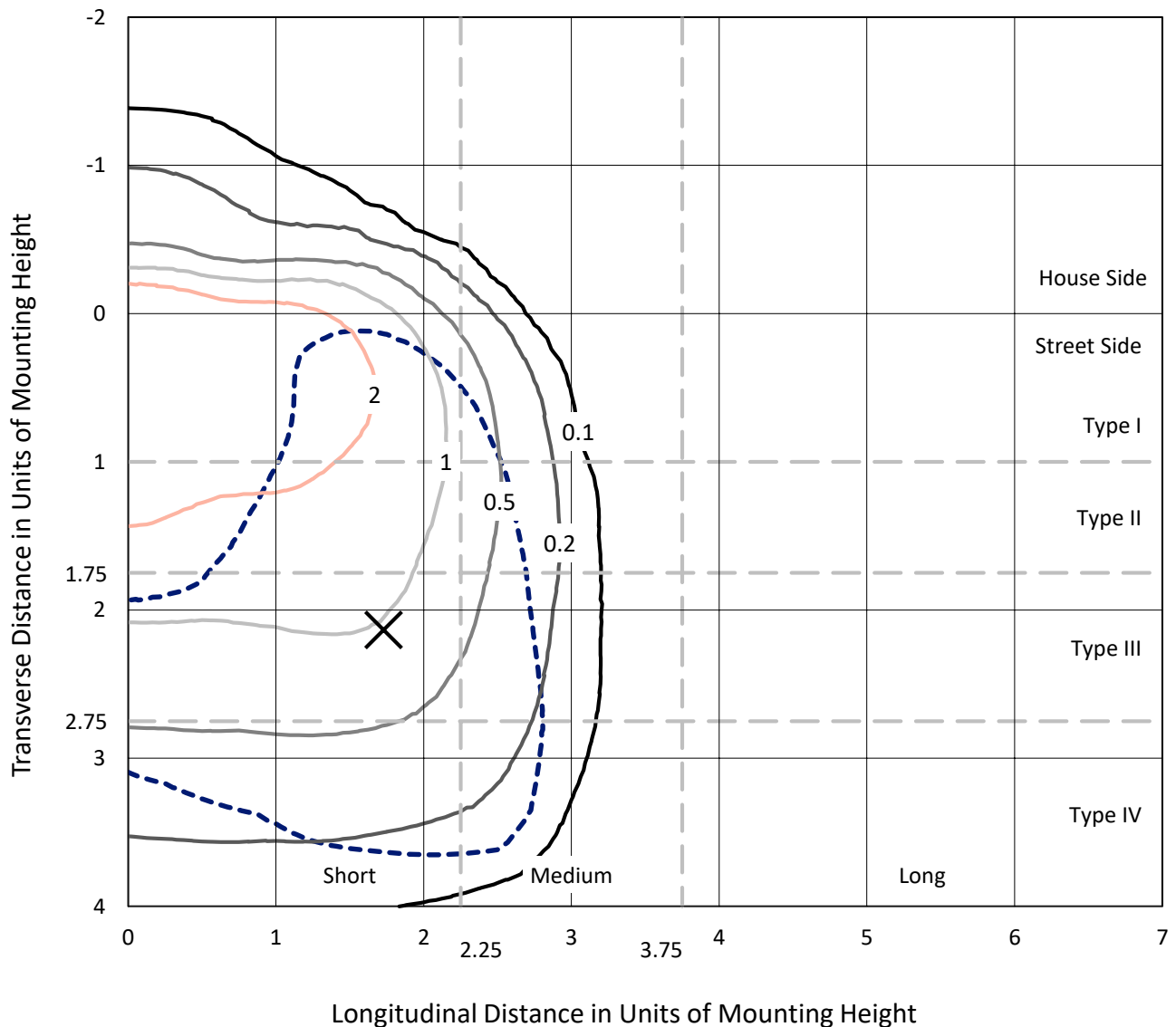
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

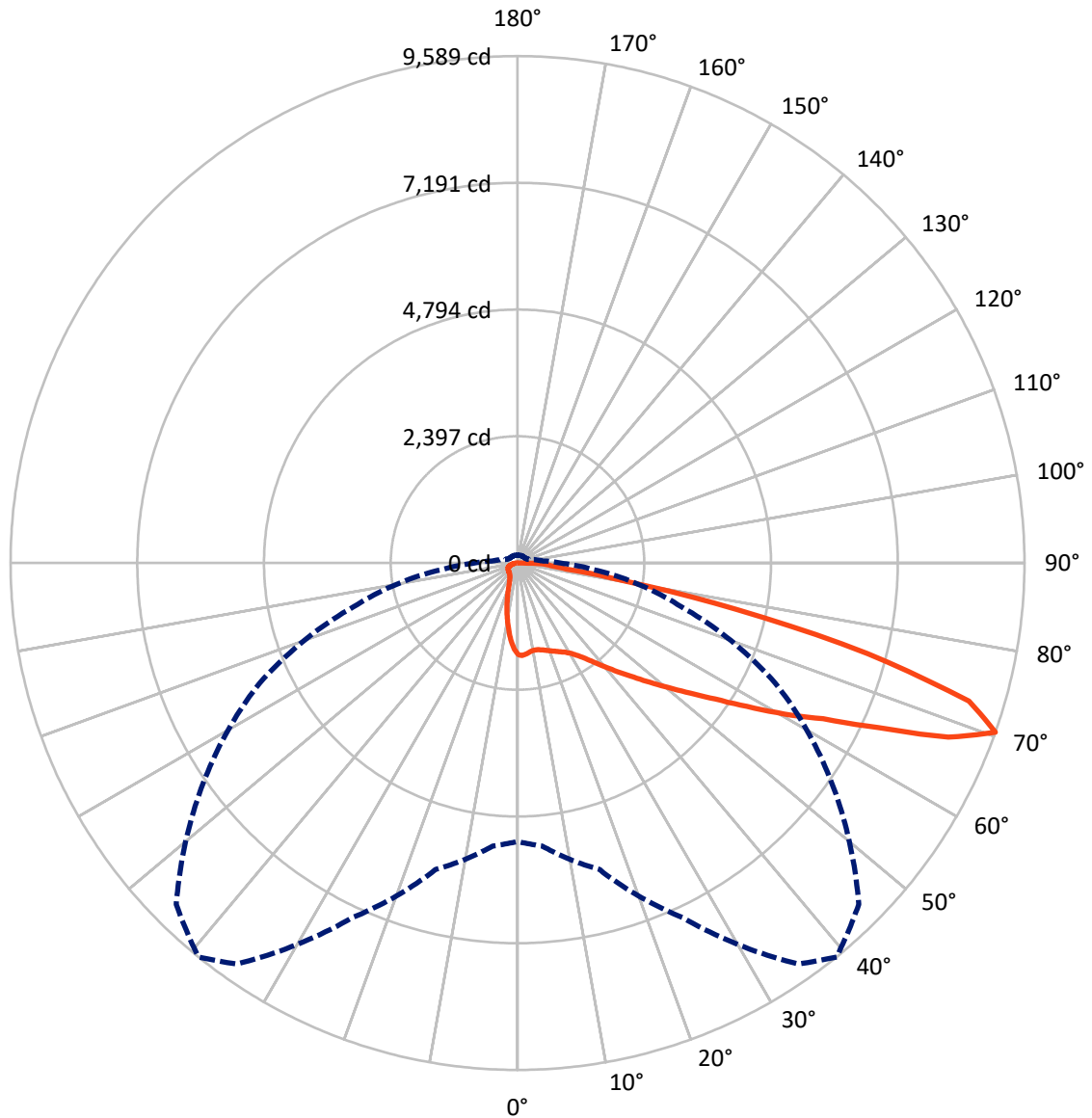
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1298.3 | 0.0 | 1298.3 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 10117.1 | 0.0 | 10117.1 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 11415.4 | 0.0 | 11415.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 148.7 | 1.3 |
| 10°-20° | 371.8 | 3.3 |
| 20°-30° | 578.8 | 5.1 |
| 30°-40° | 901.7 | 7.9 |
| 40°-50° | 1513.9 | 13.3 |
| 50°-60° | 2404.9 | 21.1 |
| 60°-70° | 3207.9 | 28.1 |
| 70°-80° | 1937.1 | 17.0 |
| 80°-90° | 350.6 | 3.1 |
| 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° | 11415.4 | 100.0 |
| 0°-180° | 11415.4 | 100.0 |



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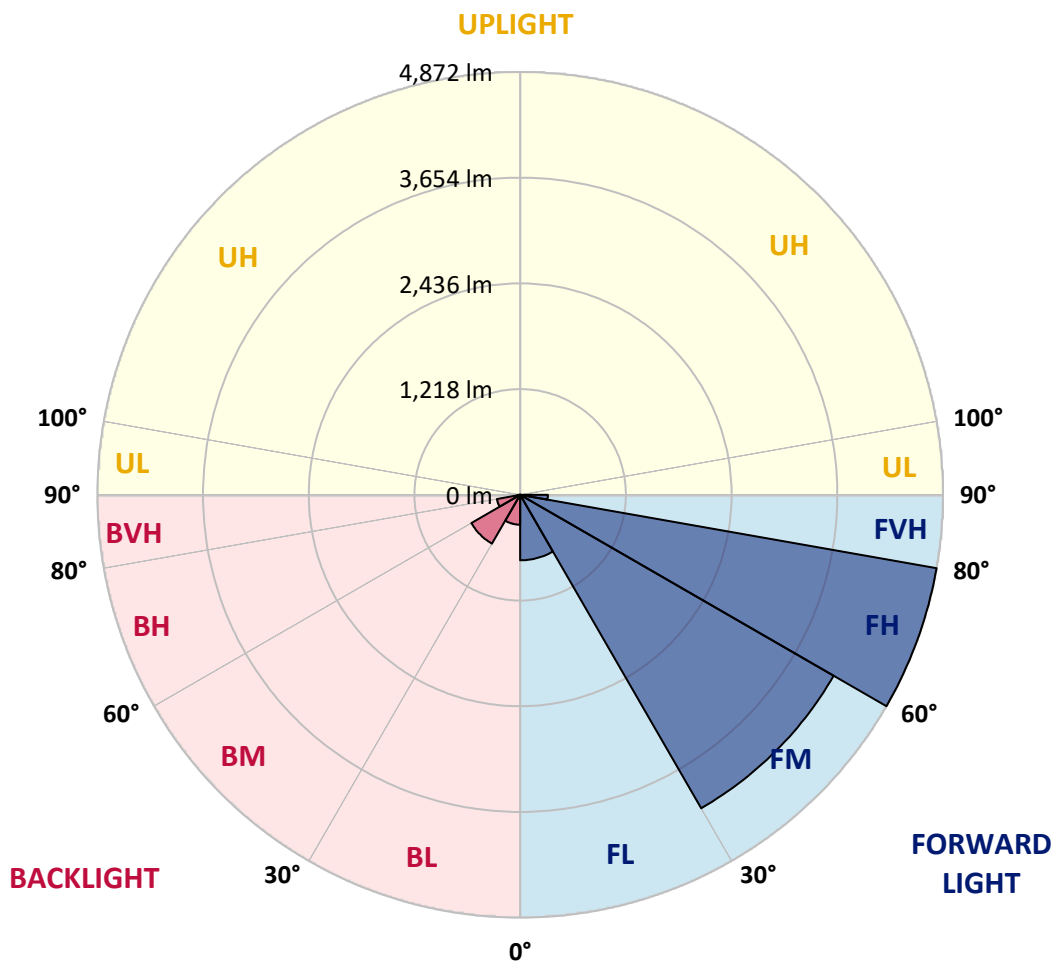
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 754.9 | 6.6 | | | |
| FM | (30°-60°) | 4170.8 | 36.5 | | | |
| FH | (60°-80°) | 4872.4 | 42.7 | | | G2/5000 |
| FVH | (80°-90°) | 319.0 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 344.4 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 649.7 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 272.6 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 |
| 2.5° | 1766.7 | 1766.0 | 1761.5 | 1758.0 | 1755.1 | 1753.9 | 1756.3 | 1747.5 | 1740.0 | 1730.6 | 1720.9 |
| 5° | 1753.4 | 1752.7 | 1745.2 | 1738.2 | 1731.3 | 1728.9 | 1728.4 | 1712.7 | 1703.5 | 1689.4 | 1670.9 |
| 7.5° | 1738.9 | 1735.9 | 1726.1 | 1714.5 | 1702.3 | 1696.5 | 1690.7 | 1670.3 | 1659.8 | 1646.0 | 1624.4 |
| 10° | 1723.8 | 1720.3 | 1711.0 | 1699.4 | 1687.7 | 1679.1 | 1669.2 | 1649.5 | 1638.5 | 1628.0 | 1603.1 |
| 12.5° | 1708.0 | 1705.2 | 1702.8 | 1697.7 | 1689.4 | 1681.9 | 1674.4 | 1657.6 | 1646.0 | 1633.8 | 1604.8 |
| 15° | 1705.7 | 1704.6 | 1709.8 | 1713.3 | 1708.7 | 1704.0 | 1695.9 | 1681.4 | 1669.2 | 1657.0 | 1619.3 |
| 17.5° | 1724.3 | 1723.8 | 1737.1 | 1746.4 | 1744.1 | 1735.9 | 1724.8 | 1708.7 | 1698.8 | 1688.4 | 1641.3 |
| 20° | 1765.0 | 1767.9 | 1784.1 | 1796.3 | 1784.6 | 1773.1 | 1755.1 | 1732.5 | 1727.3 | 1722.6 | 1664.0 |
| 22.5° | 1841.6 | 1844.6 | 1856.1 | 1860.6 | 1830.5 | 1813.7 | 1788.8 | 1759.7 | 1756.3 | 1759.7 | 1691.3 |
| 25° | 1961.1 | 1958.3 | 1956.5 | 1939.1 | 1883.9 | 1857.9 | 1825.9 | 1795.6 | 1797.5 | 1813.1 | 1729.6 |
| 27.5° | 2119.5 | 2103.9 | 2079.5 | 2027.3 | 1939.7 | 1910.6 | 1871.7 | 1843.9 | 1854.9 | 1885.0 | 1787.1 |
| 30° | 2283.8 | 2266.4 | 2210.1 | 2124.8 | 2012.8 | 1980.9 | 1937.3 | 1906.0 | 1935.0 | 1982.6 | 1863.6 |
| 32.5° | 2435.9 | 2433.5 | 2351.2 | 2241.5 | 2113.7 | 2085.9 | 2042.4 | 2007.0 | 2054.0 | 2126.5 | 1978.5 |
| 35° | 2601.9 | 2607.2 | 2508.5 | 2376.7 | 2250.2 | 2221.1 | 2189.8 | 2163.2 | 2225.8 | 2325.6 | 2145.1 |
| 37.5° | 2779.4 | 2789.9 | 2673.2 | 2524.7 | 2405.7 | 2393.6 | 2375.0 | 2363.4 | 2460.3 | 2598.4 | 2377.8 |
| 40° | 3016.8 | 3006.4 | 2844.4 | 2691.8 | 2596.6 | 2596.1 | 2590.3 | 2604.2 | 2765.6 | 2954.7 | 2676.8 |
| 42.5° | 3271.1 | 3240.3 | 3026.2 | 2871.3 | 2806.3 | 2825.9 | 2837.5 | 2894.4 | 3132.9 | 3387.7 | 3041.2 |
| 45° | 3545.0 | 3476.0 | 3214.7 | 3061.0 | 3038.9 | 3080.7 | 3120.1 | 3243.8 | 3565.3 | 3880.5 | 3440.6 |
| 47.5° | 3763.8 | 3697.2 | 3409.8 | 3260.1 | 3308.2 | 3371.5 | 3447.4 | 3643.1 | 4049.3 | 4389.5 | 3834.6 |
| 50° | 3936.2 | 3892.7 | 3606.5 | 3492.2 | 3604.8 | 3702.2 | 3826.5 | 4095.2 | 4553.2 | 4885.1 | 4199.7 |
| 52.5° | 4103.3 | 4070.8 | 3805.1 | 3730.1 | 3953.0 | 4087.7 | 4256.5 | 4580.3 | 5069.6 | 5372.6 | 4506.7 |
| 55° | 4254.2 | 4231.1 | 4018.5 | 4026.7 | 4362.7 | 4538.1 | 4750.5 | 5132.9 | 5632.7 | 5807.3 | 4766.8 |
| 57.5° | 4424.4 | 4394.7 | 4262.3 | 4398.8 | 4889.2 | 5116.7 | 5392.9 | 5753.9 | 6160.8 | 6193.9 | 4964.6 |
| 60° | 4595.6 | 4570.0 | 4532.8 | 4828.2 | 5557.8 | 5796.9 | 6058.7 | 6355.8 | 6696.5 | 6494.0 | 4953.0 |
| 62.5° | 4744.0 | 4747.0 | 4812.6 | 5279.2 | 6212.5 | 6489.4 | 6808.5 | 7102.2 | 7181.2 | 6546.2 | 4586.8 |
| 65° | 4996.0 | 5041.8 | 5237.5 | 5917.6 | 7134.1 | 7504.4 | 7896.1 | 7849.1 | 7315.2 | 6058.1 | 3801.5 |
| 67.5° | 5295.5 | 5376.1 | 5772.5 | 6768.5 | 8299.0 | 8790.6 | 8942.0 | 8018.1 | 6778.3 | 4924.6 | 2709.8 |
| 70° | 5265.3 | 5376.1 | 6003.6 | 7402.9 | 9258.9 | 9588.6 | 9128.9 | 7256.6 | 5382.5 | 3217.1 | 1439.4 |
| 72.5° | 4675.6 | 4834.0 | 5532.8 | 7112.0 | 8956.5 | 8927.5 | 7925.2 | 5409.8 | 3197.9 | 1292.0 | 562.3 |
| 75° | 3563.6 | 3723.8 | 4325.0 | 5618.7 | 7079.0 | 6835.3 | 5623.3 | 2988.5 | 1213.6 | 513.1 | 354.6 |
| 77.5° | 2049.9 | 2174.2 | 2638.4 | 3445.7 | 4491.0 | 4240.9 | 3130.1 | 1329.1 | 590.9 | 357.5 | 276.9 |
| 80° | 1144.5 | 1213.6 | 1495.6 | 1748.1 | 2200.8 | 2017.5 | 1400.4 | 825.9 | 441.1 | 259.4 | 213.6 |
| 82.5° | 904.7 | 966.4 | 1209.5 | 1102.8 | 1005.1 | 927.5 | 804.3 | 735.4 | 352.3 | 163.7 | 127.8 |
| 85° | 790.5 | 849.1 | 1023.8 | 868.3 | 686.5 | 629.8 | 653.5 | 723.8 | 273.9 | 98.7 | 109.2 |
| 87.5° | 732.5 | 810.8 | 912.4 | 669.2 | 534.5 | 473.6 | 603.0 | 793.4 | 88.2 | 61.5 | 44.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 | 1733.1 |
| 2.5° | 1712.1 | 1702.8 | 1687.7 | 1674.4 | 1653.5 | 1642.5 | 1630.2 | 1621.6 | 1614.7 | 1608.9 | 1618.1 |
| 5° | 1659.3 | 1641.9 | 1610.1 | 1575.7 | 1535.1 | 1503.2 | 1476.5 | 1451.5 | 1434.1 | 1422.5 | 1430.6 |
| 7.5° | 1609.4 | 1581.0 | 1531.0 | 1469.0 | 1399.3 | 1340.1 | 1291.3 | 1248.4 | 1218.8 | 1199.6 | 1207.2 |
| 10° | 1581.0 | 1545.6 | 1468.3 | 1370.8 | 1268.2 | 1175.8 | 1099.2 | 1033.0 | 987.2 | 961.2 | 965.2 |
| 12.5° | 1574.0 | 1528.2 | 1421.4 | 1287.3 | 1146.9 | 1018.7 | 910.6 | 818.9 | 754.6 | 720.9 | 721.9 |
| 15° | 1579.3 | 1520.6 | 1377.2 | 1207.2 | 1029.7 | 867.6 | 733.0 | 621.5 | 546.8 | 508.4 | 507.8 |
| 17.5° | 1588.0 | 1514.8 | 1330.8 | 1120.8 | 910.6 | 722.5 | 572.3 | 463.2 | 396.9 | 366.2 | 364.0 |
| 20° | 1597.3 | 1505.5 | 1278.6 | 1027.2 | 787.0 | 588.0 | 448.1 | 362.7 | 321.0 | 304.1 | 302.9 |
| 22.5° | 1610.6 | 1497.4 | 1224.6 | 928.6 | 665.7 | 478.8 | 368.5 | 311.1 | 289.0 | 280.4 | 279.1 |
| 25° | 1632.0 | 1493.3 | 1167.1 | 825.9 | 556.5 | 400.4 | 321.0 | 285.6 | 272.8 | 267.0 | 266.4 |
| 27.5° | 1668.1 | 1499.1 | 1113.2 | 726.0 | 467.7 | 347.7 | 294.2 | 272.8 | 263.6 | 258.3 | 257.8 |
| 30° | 1714.5 | 1517.2 | 1056.3 | 631.4 | 398.7 | 311.7 | 277.9 | 264.1 | 256.5 | 251.3 | 251.3 |
| 32.5° | 1791.7 | 1547.3 | 996.6 | 549.6 | 349.4 | 286.7 | 265.8 | 256.5 | 250.1 | 246.1 | 245.5 |
| 35° | 1905.4 | 1604.2 | 940.8 | 481.8 | 314.0 | 268.7 | 255.3 | 248.4 | 243.7 | 241.5 | 241.5 |
| 37.5° | 2070.8 | 1694.2 | 891.4 | 433.0 | 292.5 | 256.5 | 245.5 | 240.3 | 237.4 | 237.4 | 237.4 |
| 40° | 2293.2 | 1818.4 | 851.4 | 400.4 | 280.4 | 247.8 | 237.9 | 234.0 | 232.1 | 232.7 | 232.7 |
| 42.5° | 2567.6 | 1979.7 | 824.7 | 377.8 | 274.6 | 242.5 | 232.7 | 229.2 | 227.5 | 226.9 | 227.5 |
| 45° | 2880.5 | 2163.2 | 821.8 | 361.0 | 268.7 | 239.2 | 229.2 | 225.7 | 222.4 | 219.9 | 219.9 |
| 47.5° | 3184.6 | 2349.4 | 845.6 | 355.2 | 262.3 | 235.0 | 226.3 | 222.9 | 217.7 | 212.4 | 212.4 |
| 50° | 3453.3 | 2507.8 | 877.6 | 357.5 | 260.0 | 229.2 | 221.7 | 219.9 | 211.9 | 206.1 | 205.4 |
| 52.5° | 3666.8 | 2629.8 | 903.7 | 364.5 | 262.3 | 225.2 | 215.9 | 216.5 | 207.8 | 201.4 | 200.8 |
| 55° | 3838.1 | 2709.8 | 896.7 | 371.5 | 267.5 | 222.9 | 210.7 | 211.9 | 204.9 | 198.6 | 198.6 |
| 57.5° | 3913.0 | 2680.2 | 819.6 | 365.7 | 271.6 | 223.4 | 206.6 | 211.3 | 205.4 | 199.6 | 199.6 |
| 60° | 3752.2 | 2417.4 | 675.0 | 340.2 | 266.4 | 221.7 | 204.9 | 213.6 | 213.0 | 207.1 | 206.6 |
| 62.5° | 3265.9 | 1946.7 | 523.5 | 302.4 | 248.4 | 213.0 | 200.3 | 213.0 | 219.4 | 217.7 | 217.1 |
| 65° | 2517.2 | 1386.5 | 399.9 | 261.7 | 224.0 | 198.6 | 188.0 | 199.6 | 208.3 | 210.7 | 210.1 |
| 67.5° | 1633.8 | 849.7 | 308.2 | 223.4 | 196.7 | 181.7 | 172.4 | 177.5 | 179.3 | 179.3 | 178.2 |
| 70° | 803.3 | 457.4 | 245.5 | 188.0 | 169.0 | 163.7 | 158.4 | 155.5 | 152.6 | 150.3 | 150.3 |
| 72.5° | 396.4 | 299.0 | 202.0 | 159.0 | 145.7 | 143.3 | 142.1 | 138.8 | 136.3 | 133.6 | 132.3 |
| 75° | 293.2 | 243.2 | 171.7 | 134.1 | 125.3 | 123.0 | 125.3 | 122.5 | 122.0 | 119.5 | 118.4 |
| 77.5° | 240.8 | 207.1 | 148.0 | 114.9 | 107.4 | 103.4 | 106.7 | 107.4 | 107.9 | 104.5 | 103.4 |
| 80° | 195.6 | 175.3 | 123.6 | 95.2 | 88.2 | 85.3 | 87.6 | 92.4 | 93.4 | 88.2 | 85.9 |
| 82.5° | 141.1 | 143.3 | 99.9 | 74.3 | 68.5 | 66.2 | 70.8 | 76.6 | 77.8 | 70.3 | 68.5 |
| 85° | 118.4 | 119.5 | 76.6 | 52.8 | 47.0 | 43.4 | 51.1 | 57.0 | 60.9 | 53.4 | 51.7 |
| 87.5° | 49.3 | 70.3 | 44.1 | 29.6 | 26.1 | 22.6 | 27.4 | 30.1 | 36.6 | 33.7 | 33.1 |
| 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)