

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: P200110

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8503.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

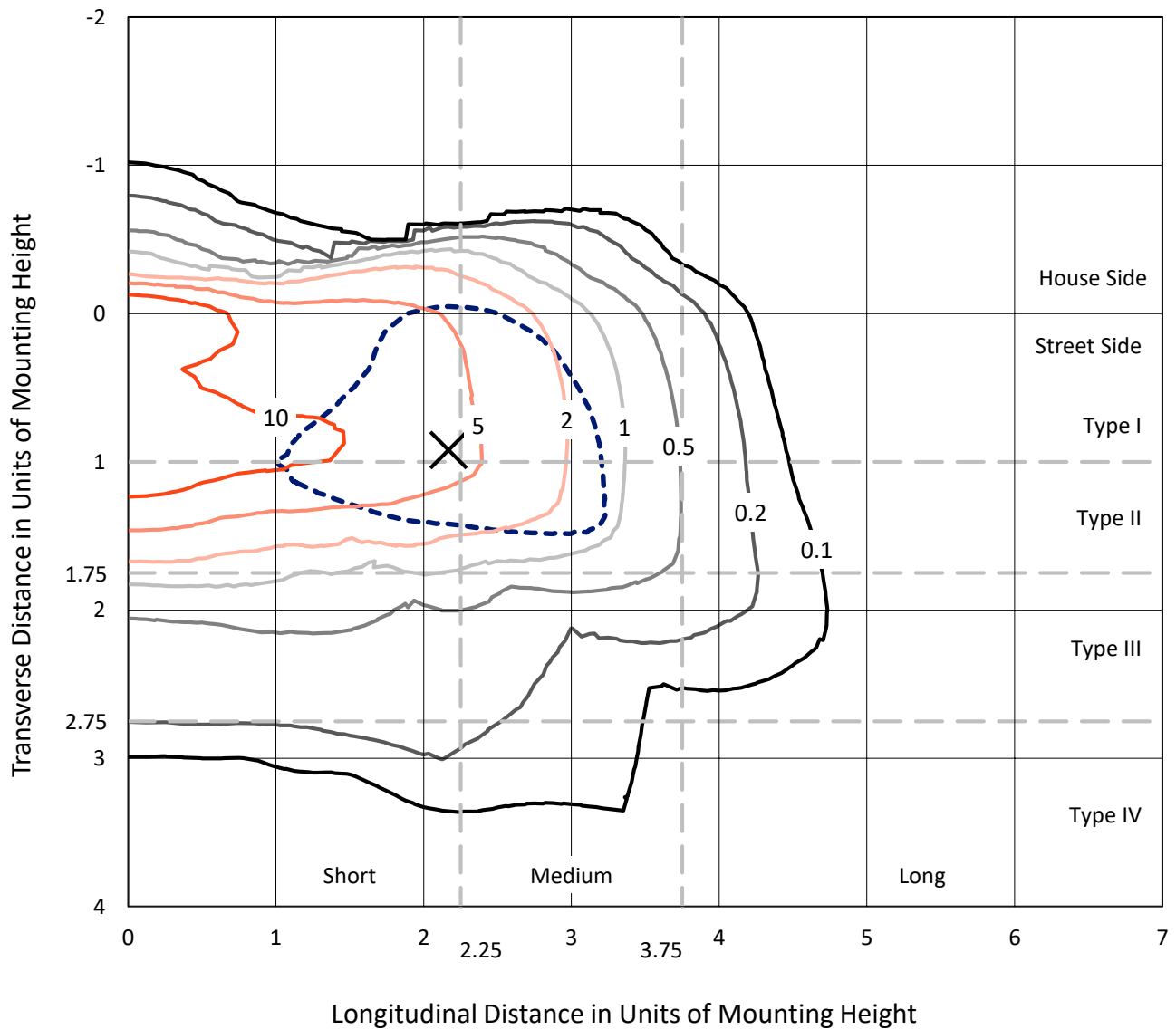
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

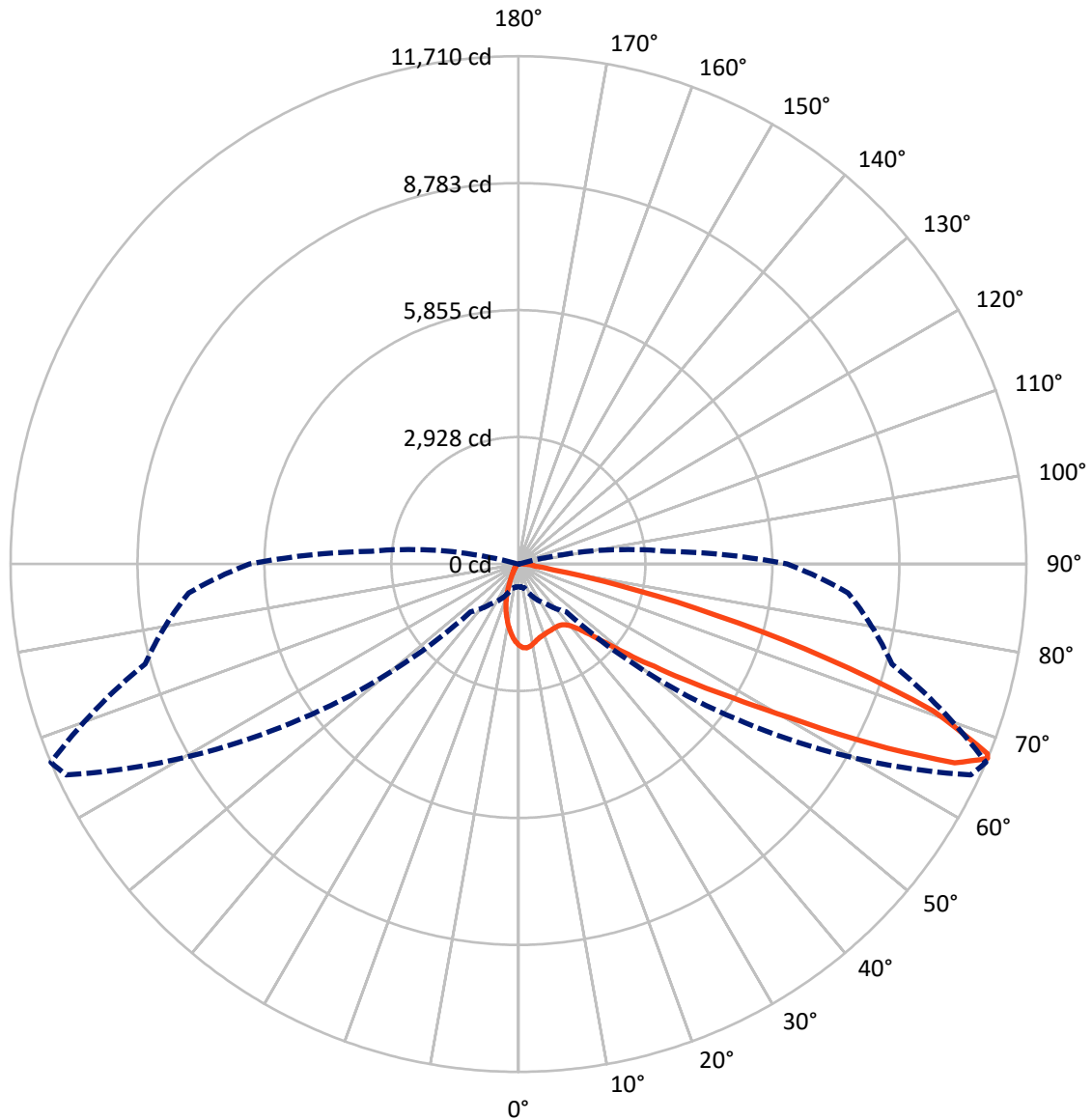
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 883.0 | 0.0 | 883.0 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 7620.8 | 0.0 | 7620.8 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 8503.8 | 0.0 | 8503.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.6 | 1.8 |
| 10°-20° | 324.8 | 3.8 |
| 20°-30° | 472.2 | 5.6 |
| 30°-40° | 736.7 | 8.7 |
| 40°-50° | 1305.0 | 15.3 |
| 50°-60° | 2065.0 | 24.3 |
| 60°-70° | 2365.2 | 27.8 |
| 70°-80° | 981.1 | 11.5 |
| 80°-90° | 101.3 | 1.2 |
| 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° | 8503.8 | 100.0 |
| 0°-180° | 8503.8 | 100.0 |

Coefficient of Utilization



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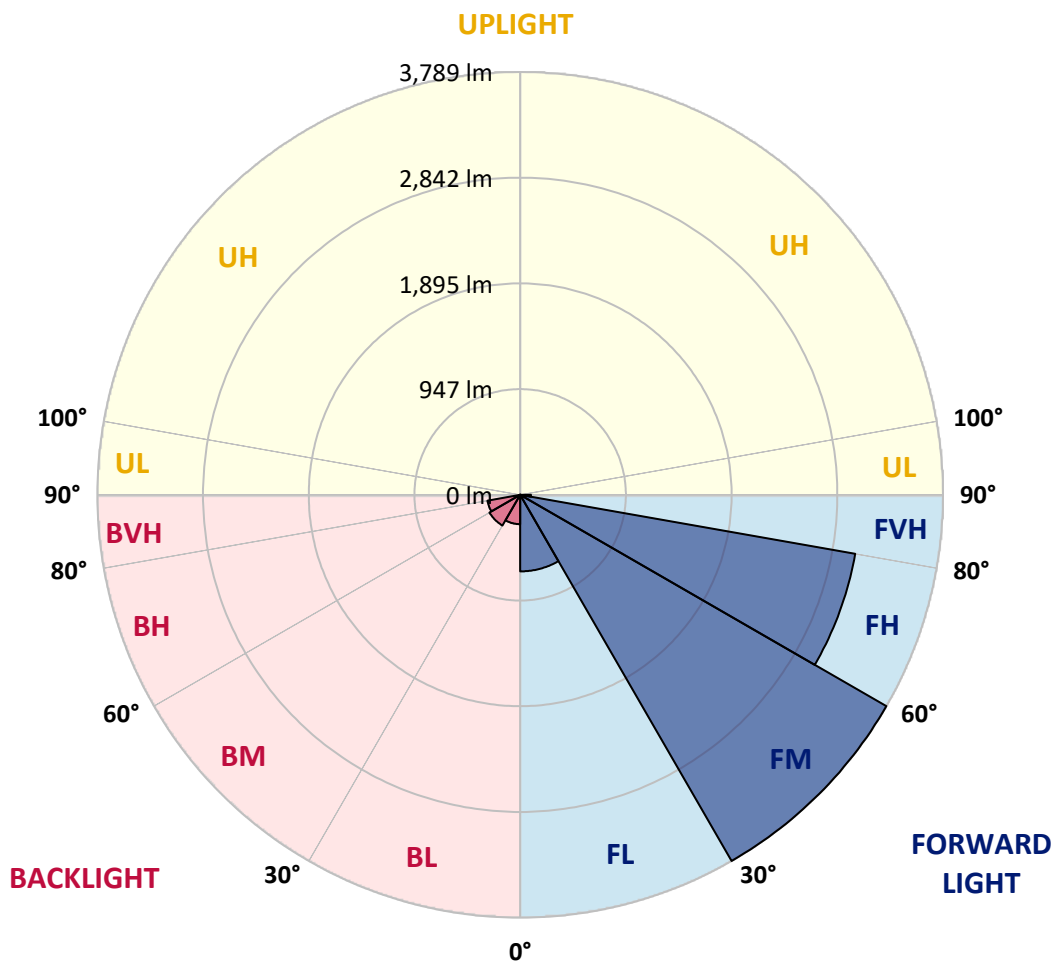
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 686.1 | 8.1 | | | |
| FM | (30°-60°) | 3789.3 | 44.6 | | | |
| FH | (60°-80°) | 3048.6 | 35.9 | | | G2/5000 |
| FVH | (80°-90°) | 96.8 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 263.5 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 317.3 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 297.6 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.6 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 |
| 2.5° | 1938.9 | 1942.9 | 1942.4 | 1945.3 | 1952.3 | 1952.8 | 1945.9 | 1932.5 | 1929.5 | 1912.1 | 1881.8 |
| 5° | 1788.1 | 1799.5 | 1806.4 | 1834.8 | 1866.5 | 1904.6 | 1933.5 | 1943.8 | 1942.4 | 1930.0 | 1884.4 |
| 7.5° | 1616.0 | 1627.4 | 1635.3 | 1668.5 | 1710.7 | 1776.1 | 1851.1 | 1912.6 | 1918.0 | 1931.4 | 1882.3 |
| 10° | 1501.4 | 1503.4 | 1514.3 | 1546.1 | 1590.2 | 1657.2 | 1746.5 | 1854.1 | 1870.5 | 1919.6 | 1877.4 |
| 12.5° | 1407.2 | 1408.7 | 1423.0 | 1457.3 | 1504.4 | 1571.9 | 1665.6 | 1790.1 | 1815.4 | 1904.6 | 1876.4 |
| 15° | 1340.2 | 1345.7 | 1358.6 | 1394.3 | 1444.4 | 1511.3 | 1607.6 | 1743.0 | 1773.2 | 1899.2 | 1885.3 |
| 17.5° | 1317.9 | 1323.8 | 1327.8 | 1353.6 | 1399.2 | 1464.7 | 1563.4 | 1712.2 | 1746.5 | 1902.2 | 1902.7 |
| 20° | 1341.2 | 1345.7 | 1336.7 | 1343.1 | 1371.5 | 1430.0 | 1526.2 | 1685.9 | 1726.6 | 1905.7 | 1925.0 |
| 22.5° | 1428.0 | 1430.0 | 1405.6 | 1377.4 | 1372.5 | 1404.7 | 1497.0 | 1665.1 | 1708.7 | 1915.1 | 1951.3 |
| 25° | 1576.8 | 1573.3 | 1533.6 | 1472.6 | 1415.2 | 1400.2 | 1479.6 | 1652.2 | 1699.8 | 1925.0 | 1978.6 |
| 27.5° | 1756.4 | 1761.3 | 1706.8 | 1618.0 | 1508.3 | 1430.0 | 1477.1 | 1646.7 | 1695.8 | 1931.9 | 2002.4 |
| 30° | 1974.6 | 1981.6 | 1919.1 | 1807.5 | 1650.2 | 1503.4 | 1500.0 | 1645.7 | 1693.4 | 1927.4 | 2004.4 |
| 32.5° | 2197.3 | 2205.8 | 2156.6 | 2041.6 | 1839.7 | 1626.4 | 1551.5 | 1656.7 | 1698.3 | 1912.1 | 1992.9 |
| 35° | 2430.4 | 2442.3 | 2409.6 | 2310.8 | 2096.6 | 1804.0 | 1642.2 | 1689.9 | 1721.6 | 1910.6 | 1981.6 |
| 37.5° | 2752.4 | 2763.3 | 2701.7 | 2597.1 | 2407.6 | 2042.0 | 1788.1 | 1752.4 | 1776.7 | 1934.4 | 1984.5 |
| 40° | 3232.9 | 3231.5 | 3072.7 | 2912.5 | 2749.4 | 2344.6 | 1992.9 | 1865.5 | 1877.8 | 2006.3 | 2021.2 |
| 42.5° | 3756.8 | 3754.2 | 3519.7 | 3276.1 | 3128.8 | 2717.2 | 2262.3 | 2060.9 | 2052.4 | 2138.8 | 2116.5 |
| 45° | 4160.5 | 4160.0 | 3968.5 | 3694.3 | 3585.6 | 3144.7 | 2610.5 | 2332.7 | 2319.8 | 2354.0 | 2292.0 |
| 47.5° | 4332.6 | 4335.6 | 4239.4 | 4046.4 | 4092.0 | 3723.0 | 3049.4 | 2726.6 | 2707.2 | 2693.3 | 2599.1 |
| 50° | 4198.7 | 4204.6 | 4212.6 | 4174.9 | 4463.5 | 4500.3 | 3638.2 | 3281.6 | 3272.1 | 3210.1 | 3062.8 |
| 52.5° | 3761.2 | 3791.5 | 3884.8 | 4004.2 | 4592.5 | 5246.3 | 4561.2 | 3971.0 | 3920.5 | 3854.5 | 3692.2 |
| 55° | 3024.1 | 3057.4 | 3234.5 | 3524.6 | 4400.5 | 5736.3 | 5854.9 | 4859.8 | 4775.5 | 4578.6 | 4344.5 |
| 57.5° | 2001.4 | 2053.0 | 2309.9 | 2678.9 | 3843.0 | 5815.2 | 7145.5 | 6093.4 | 5799.8 | 5260.6 | 4996.8 |
| 60° | 1102.6 | 1152.3 | 1431.0 | 1765.3 | 2775.7 | 5425.3 | 8013.5 | 7699.5 | 7180.7 | 6023.0 | 5788.9 |
| 62.5° | 679.0 | 705.8 | 911.7 | 1222.6 | 1664.6 | 4282.1 | 8193.0 | 9717.7 | 9117.0 | 7004.6 | 6745.6 |
| 65° | 540.6 | 552.1 | 652.7 | 999.4 | 1193.4 | 2546.9 | 7613.2 | 11256.3 | 11056.0 | 8193.0 | 7602.3 |
| 67° | 524.8 | 529.3 | 576.8 | 858.1 | 1124.9 | 1561.4 | 6378.1 | 11506.9 | 11710.2 | 8912.3 | 7629.1 |
| 67.5° | 528.3 | 533.2 | 578.4 | 818.9 | 1123.0 | 1435.0 | 5952.6 | 11408.2 | 11665.1 | 8969.2 | 7510.5 |
| 70° | 509.4 | 524.8 | 662.2 | 818.4 | 1067.9 | 1192.4 | 3564.8 | 9884.4 | 10151.8 | 8333.9 | 6372.7 |
| 72.5° | 180.6 | 181.6 | 286.2 | 662.2 | 1161.2 | 1205.3 | 1790.1 | 7246.2 | 7444.0 | 6375.1 | 4594.5 |
| 75° | 107.1 | 91.2 | 95.2 | 188.5 | 1109.6 | 1170.6 | 1032.7 | 4630.2 | 4704.1 | 3653.1 | 2326.8 |
| 77.5° | 73.9 | 64.4 | 66.5 | 83.4 | 422.6 | 1154.2 | 820.4 | 2414.6 | 2335.7 | 1281.1 | 495.5 |
| 80° | 42.1 | 37.2 | 39.7 | 72.9 | 153.7 | 1076.9 | 773.8 | 979.1 | 834.7 | 217.3 | 136.9 |
| 82.5° | 22.3 | 18.8 | 22.8 | 60.0 | 107.1 | 671.1 | 775.3 | 473.2 | 375.0 | 73.4 | 93.3 |
| 85° | 8.0 | 6.4 | 10.9 | 41.1 | 71.4 | 205.8 | 718.7 | 397.8 | 312.5 | 35.7 | 70.9 |
| 87.5° | 1.5 | 1.5 | 4.5 | 16.9 | 28.7 | 63.0 | 425.0 | 236.1 | 158.3 | 21.3 | 48.6 |
| 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° | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 | 1875.4 |
| 2.5° | 1869.4 | 1848.2 | 1819.3 | 1784.1 | 1742.5 | 1705.8 | 1678.5 | 1650.2 | 1644.3 | 1634.4 | 1632.8 |
| 5° | 1857.1 | 1820.3 | 1748.9 | 1667.1 | 1579.7 | 1500.9 | 1436.9 | 1379.9 | 1354.6 | 1332.8 | 1330.2 |
| 7.5° | 1838.7 | 1783.6 | 1662.1 | 1530.1 | 1393.8 | 1269.8 | 1164.6 | 1090.3 | 1021.7 | 989.0 | 984.1 |
| 10° | 1817.4 | 1738.5 | 1564.4 | 1381.4 | 1192.9 | 1017.8 | 861.5 | 730.6 | 651.2 | 604.2 | 598.2 |
| 12.5° | 1797.5 | 1694.3 | 1464.7 | 1227.1 | 976.6 | 742.6 | 541.7 | 416.6 | 333.3 | 299.6 | 295.6 |
| 15° | 1788.1 | 1658.6 | 1371.5 | 1069.4 | 750.4 | 472.7 | 296.1 | 229.1 | 201.8 | 194.0 | 193.4 |
| 17.5° | 1787.1 | 1628.4 | 1280.2 | 906.2 | 525.8 | 274.8 | 192.9 | 176.0 | 170.6 | 168.7 | 168.7 |
| 20° | 1786.6 | 1599.6 | 1189.0 | 737.0 | 333.8 | 183.0 | 160.7 | 156.7 | 152.7 | 150.3 | 150.3 |
| 22.5° | 1792.1 | 1573.8 | 1093.7 | 564.5 | 210.3 | 148.3 | 141.4 | 137.4 | 132.5 | 129.0 | 128.5 |
| 25° | 1797.5 | 1554.0 | 996.5 | 401.8 | 152.3 | 129.0 | 122.0 | 116.5 | 109.7 | 105.2 | 104.6 |
| 27.5° | 1798.6 | 1529.2 | 892.3 | 268.8 | 127.5 | 112.6 | 103.6 | 95.2 | 87.3 | 82.9 | 82.3 |
| 30° | 1783.6 | 1487.5 | 776.7 | 181.6 | 112.6 | 97.7 | 85.8 | 76.9 | 69.5 | 66.0 | 66.0 |
| 32.5° | 1754.4 | 1435.9 | 649.8 | 136.9 | 100.1 | 83.8 | 70.9 | 62.5 | 57.5 | 56.1 | 55.5 |
| 35° | 1728.1 | 1380.4 | 519.4 | 116.1 | 89.8 | 70.9 | 58.0 | 52.6 | 49.6 | 49.1 | 48.6 |
| 37.5° | 1712.7 | 1335.8 | 396.8 | 105.2 | 79.9 | 59.5 | 49.1 | 45.1 | 43.7 | 42.7 | 43.2 |
| 40° | 1724.6 | 1298.5 | 293.2 | 96.3 | 70.0 | 49.6 | 41.6 | 39.7 | 38.2 | 37.7 | 37.7 |
| 42.5° | 1776.7 | 1292.1 | 217.8 | 88.3 | 60.6 | 41.1 | 36.2 | 34.7 | 33.8 | 33.2 | 33.8 |
| 45° | 1913.6 | 1331.8 | 169.1 | 80.8 | 51.0 | 34.7 | 30.8 | 30.3 | 29.8 | 29.8 | 29.8 |
| 47.5° | 2119.5 | 1413.6 | 140.9 | 72.4 | 42.7 | 29.8 | 26.8 | 26.3 | 25.8 | 26.3 | 26.3 |
| 50° | 2468.2 | 1563.4 | 126.0 | 63.9 | 35.2 | 25.3 | 22.8 | 22.8 | 22.8 | 22.8 | 23.3 |
| 52.5° | 2998.4 | 1858.1 | 116.1 | 55.5 | 28.7 | 21.3 | 19.3 | 19.3 | 19.8 | 19.8 | 20.4 |
| 55° | 3589.1 | 2248.9 | 107.1 | 47.2 | 24.3 | 17.9 | 15.9 | 16.4 | 16.9 | 17.4 | 17.4 |
| 57.5° | 4229.9 | 2681.9 | 99.7 | 38.7 | 20.9 | 14.4 | 13.4 | 13.9 | 14.4 | 15.3 | 15.3 |
| 60° | 5003.3 | 3150.6 | 88.8 | 30.3 | 17.4 | 11.5 | 10.4 | 11.5 | 12.9 | 13.9 | 14.4 |
| 62.5° | 5852.4 | 3604.0 | 74.9 | 23.8 | 14.4 | 8.9 | 8.4 | 10.4 | 12.4 | 13.4 | 13.9 |
| 65° | 6432.7 | 3746.4 | 57.5 | 19.3 | 10.9 | 6.4 | 7.0 | 9.4 | 11.9 | 13.4 | 13.4 |
| 67° | 6197.5 | 3396.6 | 47.2 | 16.4 | 8.9 | 4.9 | 6.4 | 9.4 | 11.9 | 12.9 | 13.4 |
| 67.5° | 6034.4 | 3259.7 | 45.1 | 15.9 | 8.4 | 4.9 | 6.4 | 9.4 | 11.9 | 13.4 | 13.4 |
| 70° | 4910.0 | 2448.7 | 37.7 | 11.9 | 7.0 | 4.5 | 5.4 | 8.9 | 11.5 | 12.9 | 12.9 |
| 72.5° | 3411.5 | 1509.9 | 33.8 | 8.4 | 5.9 | 4.0 | 4.9 | 8.4 | 10.9 | 12.4 | 12.9 |
| 75° | 1622.0 | 546.6 | 28.7 | 6.4 | 5.4 | 3.5 | 4.5 | 8.4 | 10.9 | 12.4 | 12.4 |
| 77.5° | 330.8 | 126.9 | 23.3 | 5.4 | 4.5 | 3.5 | 4.0 | 8.0 | 10.4 | 11.9 | 11.9 |
| 80° | 108.6 | 49.1 | 17.4 | 4.9 | 4.5 | 3.5 | 4.0 | 7.5 | 10.4 | 11.5 | 11.9 |
| 82.5° | 78.4 | 24.8 | 11.5 | 4.9 | 4.5 | 3.5 | 3.5 | 7.5 | 9.9 | 11.5 | 11.5 |
| 85° | 60.0 | 17.4 | 7.5 | 4.9 | 4.5 | 3.5 | 3.5 | 7.0 | 9.4 | 10.9 | 10.9 |
| 87.5° | 39.7 | 7.0 | 5.9 | 4.9 | 4.5 | 3.5 | 3.5 | 7.0 | 8.9 | 10.4 | 10.9 |
| 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)