

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: P270087

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-AFL-7027-1200-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.3 lumens
Efficiency: N/A
Efficacy: 72.8 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

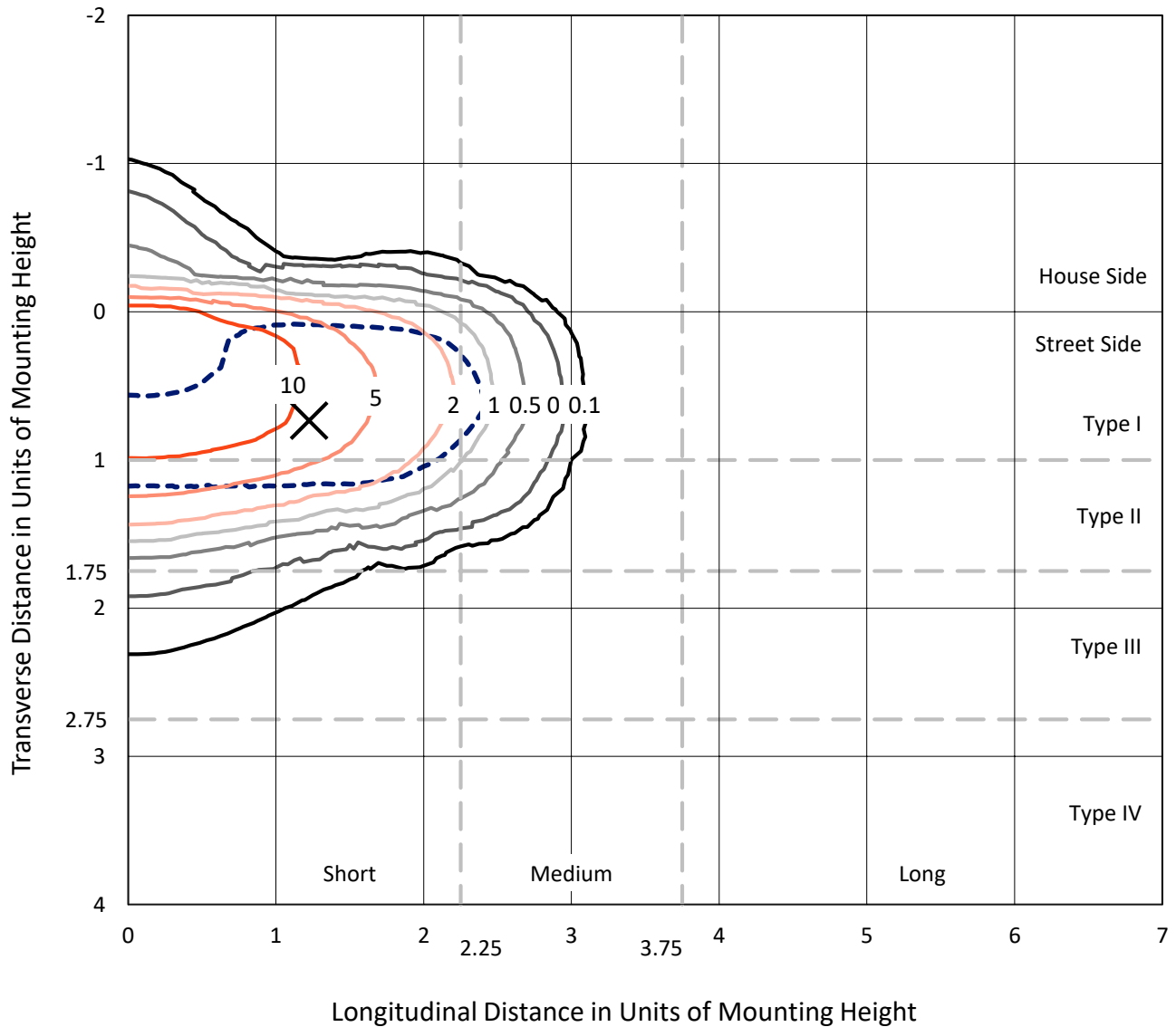


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

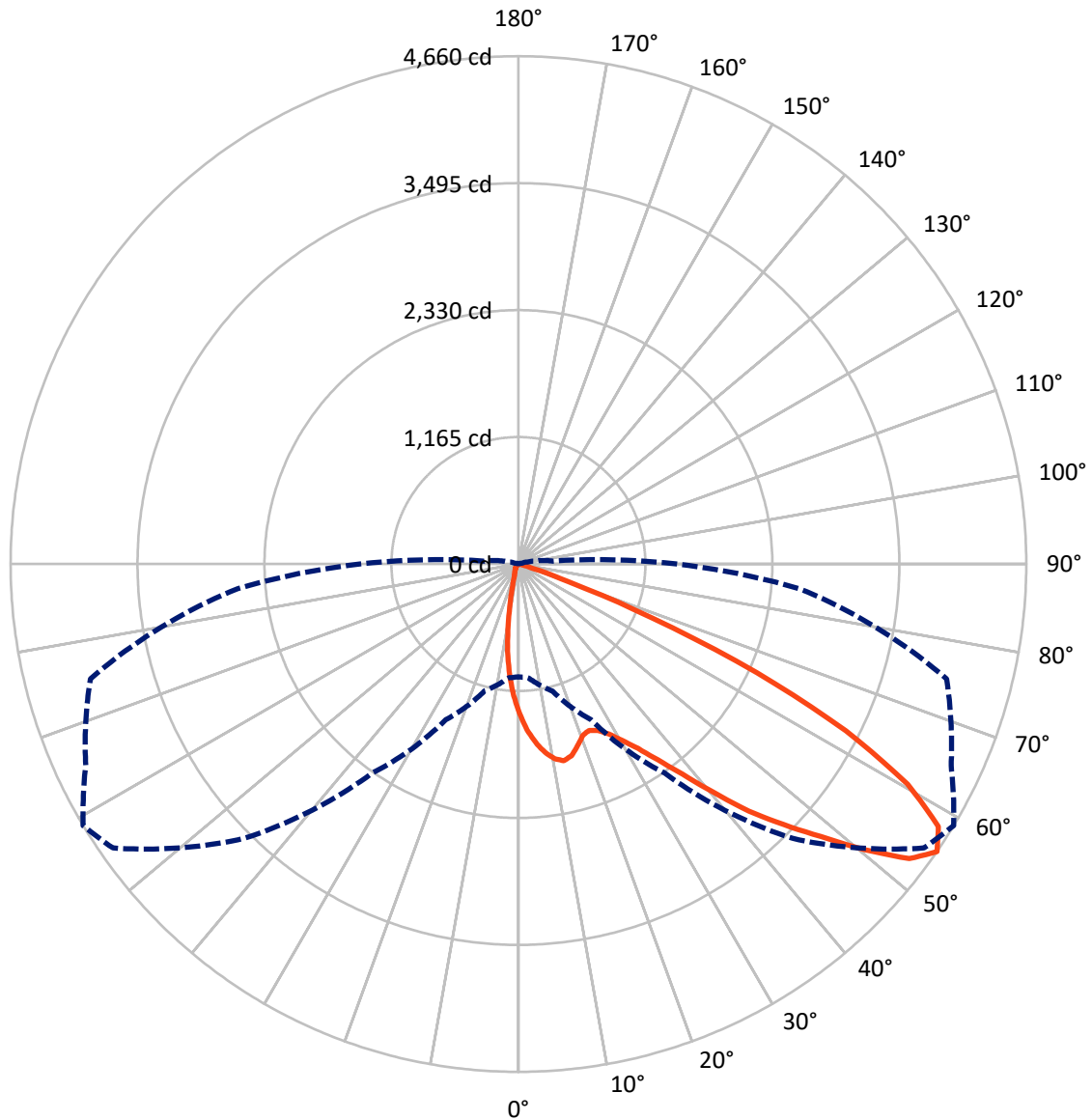


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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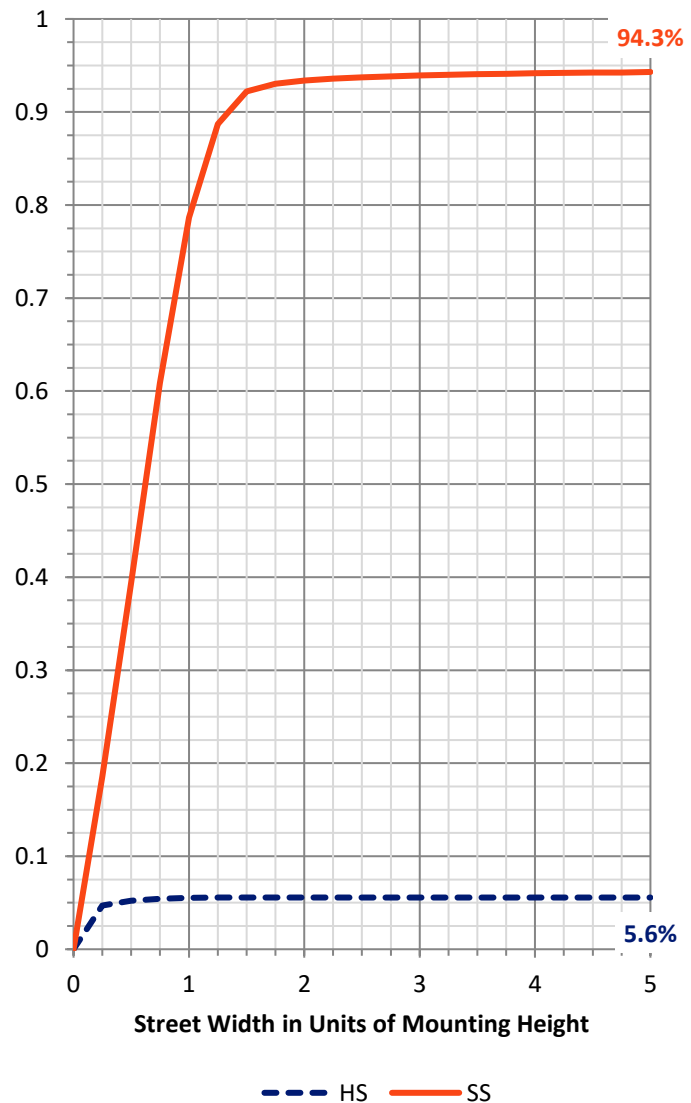
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 272.3 | 0.0 | 272.3 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 4603.0 | 0.0 | 4603.0 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 4875.3 | 0.0 | 4875.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.0 | 2.4 |
| 10°-20° | 275.2 | 5.6 |
| 20°-30° | 468.3 | 9.6 |
| 30°-40° | 805.4 | 16.5 |
| 40°-50° | 1243.5 | 25.5 |
| 50°-60° | 1250.1 | 25.6 |
| 60°-70° | 641.1 | 13.1 |
| 70°-80° | 69.5 | 1.4 |
| 80°-90° | 7.3 | 0.1 |
| 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° | 4875.3 | 100.0 |
| 0°-180° | 4875.3 | 100.0 |



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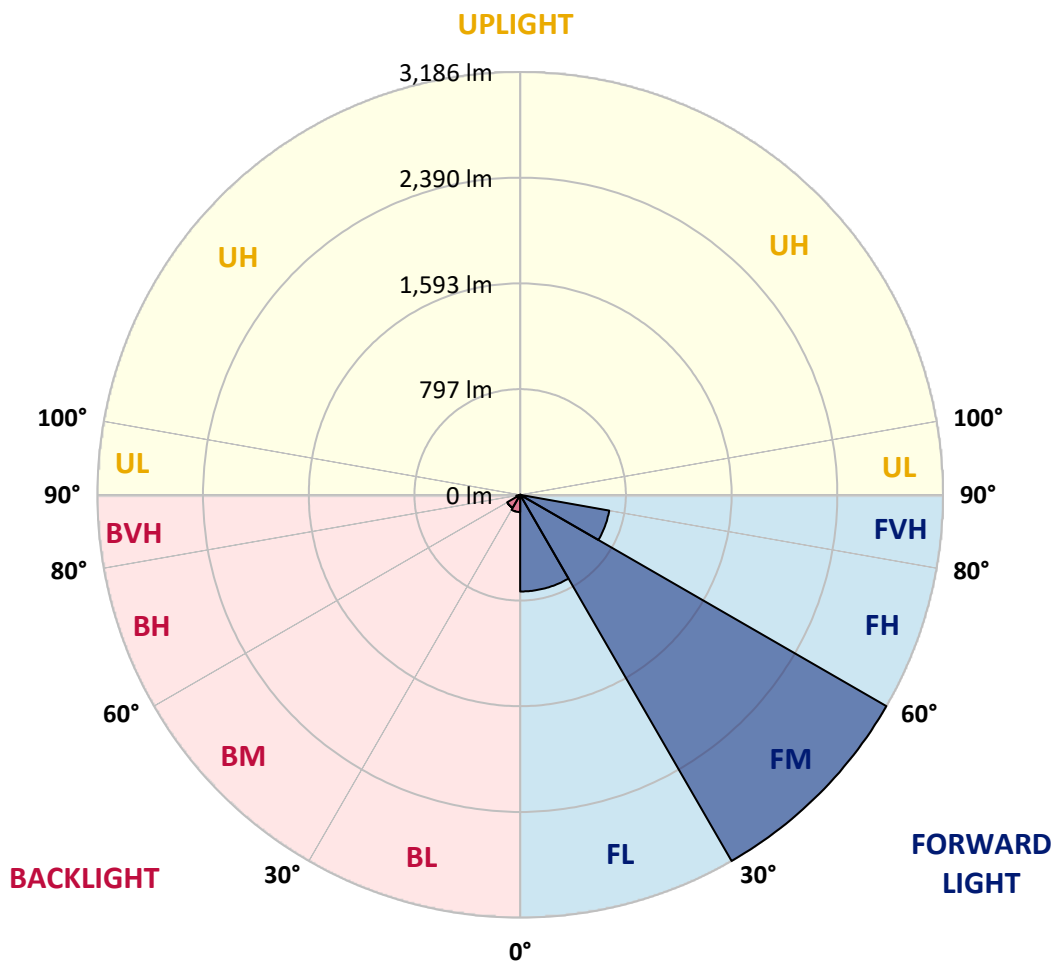
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 728.5 | 14.9 | | | |
| FM | (30°-60°) | 3186.0 | 65.3 | | | |
| FH | (60°-80°) | 681.4 | 14.0 | | | G1/1800 |
| FVH | (80°-90°) | 7.1 | 0.1 | | | G0/10 |
| BL | (0°-30°) | 130.0 | 2.7 | B1/500 | | |
| BM | (30°-60°) | 113.0 | 2.3 | B0/220 | | |
| BH | (60°-80°) | 29.2 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 |
| 2.5° | 1623.9 | 1606.5 | 1601.4 | 1598.0 | 1582.2 | 1562.2 | 1535.3 | 1522.6 | 1496.7 | 1455.0 | 1403.8 |
| 5° | 1772.6 | 1769.4 | 1758.0 | 1751.6 | 1734.6 | 1706.4 | 1663.3 | 1642.6 | 1601.4 | 1531.3 | 1439.4 |
| 7.5° | 1707.6 | 1727.4 | 1743.3 | 1769.8 | 1803.1 | 1801.9 | 1765.7 | 1744.1 | 1698.2 | 1605.5 | 1479.1 |
| 10° | 1456.4 | 1472.6 | 1498.4 | 1558.6 | 1681.2 | 1789.3 | 1831.8 | 1816.3 | 1779.5 | 1673.6 | 1517.4 |
| 12.5° | 1407.2 | 1405.5 | 1410.2 | 1427.7 | 1491.8 | 1646.1 | 1820.7 | 1852.0 | 1844.5 | 1736.1 | 1553.7 |
| 15° | 1433.3 | 1431.4 | 1430.7 | 1436.8 | 1452.4 | 1517.4 | 1736.3 | 1826.4 | 1884.3 | 1793.9 | 1584.4 |
| 17.5° | 1506.8 | 1498.1 | 1493.5 | 1488.7 | 1484.0 | 1500.2 | 1635.1 | 1754.7 | 1890.3 | 1844.5 | 1610.0 |
| 20° | 1632.5 | 1618.1 | 1601.1 | 1573.5 | 1547.6 | 1539.6 | 1592.5 | 1681.2 | 1868.7 | 1883.1 | 1626.7 |
| 22.5° | 1790.5 | 1772.0 | 1742.7 | 1692.3 | 1639.7 | 1609.1 | 1613.5 | 1657.8 | 1836.5 | 1925.1 | 1634.6 |
| 25° | 1968.0 | 1944.4 | 1905.3 | 1835.3 | 1758.0 | 1703.8 | 1675.6 | 1691.1 | 1821.9 | 1974.3 | 1643.4 |
| 27.5° | 2158.2 | 2131.9 | 2080.7 | 1985.5 | 1897.8 | 1824.7 | 1767.1 | 1765.1 | 1846.8 | 2038.7 | 1657.8 |
| 30° | 2346.6 | 2342.5 | 2275.8 | 2175.2 | 2058.9 | 1970.0 | 1887.2 | 1876.5 | 1916.8 | 2128.0 | 1686.3 |
| 32.5° | 2598.1 | 2567.8 | 2486.1 | 2382.6 | 2248.5 | 2141.7 | 2043.6 | 2018.9 | 2024.1 | 2231.7 | 1730.3 |
| 35° | 2915.1 | 2882.0 | 2767.0 | 2624.0 | 2474.0 | 2348.1 | 2239.6 | 2206.0 | 2193.3 | 2401.9 | 1804.5 |
| 37.5° | 3120.0 | 3119.5 | 3047.1 | 2901.6 | 2740.7 | 2601.8 | 2483.8 | 2444.5 | 2418.8 | 2607.3 | 1919.7 |
| 40° | 3125.4 | 3138.9 | 3148.5 | 3147.0 | 3032.5 | 2904.5 | 2799.7 | 2751.1 | 2691.5 | 2881.7 | 2068.3 |
| 42.5° | 2957.8 | 2992.5 | 3076.2 | 3218.4 | 3286.3 | 3235.3 | 3147.0 | 3099.2 | 3010.6 | 3175.5 | 2249.6 |
| 45° | 2731.0 | 2755.1 | 2901.6 | 3163.5 | 3423.8 | 3563.4 | 3496.0 | 3410.5 | 3293.8 | 3481.9 | 2412.2 |
| 47.5° | 2629.4 | 2633.7 | 2728.4 | 3015.8 | 3434.2 | 3832.1 | 3872.9 | 3734.0 | 3551.0 | 3728.8 | 2539.4 |
| 50° | 2325.9 | 2333.7 | 2464.3 | 2760.0 | 3312.7 | 3958.9 | 4251.6 | 4119.8 | 3831.5 | 3918.9 | 2585.7 |
| 52.5° | 1753.0 | 1763.9 | 1929.6 | 2339.6 | 2979.0 | 3904.8 | 4522.6 | 4490.7 | 4138.8 | 4011.9 | 2588.3 |
| 55° | 1034.3 | 1048.7 | 1207.0 | 1574.9 | 2343.1 | 3560.8 | 4542.7 | 4660.1 | 4381.3 | 4066.8 | 2584.2 |
| 57.5° | 483.1 | 493.2 | 583.7 | 811.3 | 1457.3 | 2814.2 | 4239.5 | 4543.8 | 4515.1 | 4095.9 | 2612.7 |
| 60° | 256.6 | 259.5 | 281.3 | 351.3 | 658.6 | 1784.4 | 3647.6 | 4103.1 | 4393.2 | 4136.2 | 2647.6 |
| 62.5° | 196.3 | 197.1 | 195.9 | 204.3 | 276.9 | 792.0 | 2757.2 | 3373.2 | 3902.1 | 4106.0 | 2609.0 |
| 65° | 170.0 | 171.5 | 163.4 | 161.4 | 177.5 | 282.5 | 1637.9 | 2404.4 | 3066.2 | 3698.2 | 2346.3 |
| 67.5° | 152.4 | 153.0 | 143.3 | 135.0 | 137.8 | 152.7 | 646.2 | 1316.4 | 2029.5 | 2710.8 | 1700.7 |
| 70° | 140.4 | 139.8 | 129.2 | 116.0 | 112.2 | 104.4 | 205.4 | 482.5 | 969.9 | 1374.7 | 790.9 |
| 72.5° | 124.2 | 124.6 | 119.5 | 102.1 | 93.2 | 73.0 | 95.2 | 140.7 | 289.4 | 374.7 | 185.2 |
| 75° | 110.2 | 108.7 | 102.5 | 91.4 | 76.8 | 48.1 | 47.2 | 62.7 | 89.1 | 88.6 | 40.0 |
| 77.5° | 79.7 | 78.2 | 80.3 | 75.1 | 58.9 | 31.1 | 23.6 | 30.2 | 36.3 | 35.1 | 11.2 |
| 80° | 58.4 | 57.5 | 51.8 | 62.4 | 52.1 | 21.3 | 14.6 | 16.1 | 18.7 | 15.8 | 3.5 |
| 82.5° | 40.0 | 39.8 | 36.6 | 34.6 | 29.6 | 12.9 | 9.2 | 10.1 | 12.0 | 8.9 | 1.7 |
| 85° | 6.4 | 7.3 | 26.4 | 21.0 | 17.5 | 5.7 | 6.4 | 6.9 | 8.0 | 4.9 | 0.5 |
| 87.5° | 0.0 | 0.0 | 12.3 | 10.9 | 3.5 | 2.3 | 3.8 | 4.0 | 4.0 | 2.6 | 0.0 |
| 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° | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 | 1372.4 |
| 2.5° | 1377.6 | 1348.7 | 1295.6 | 1240.6 | 1189.6 | 1129.0 | 1087.3 | 1056.0 | 1019.7 | 1009.9 | 1031.2 |
| 5° | 1387.1 | 1332.7 | 1218.2 | 1093.6 | 976.5 | 846.7 | 747.5 | 669.0 | 597.9 | 573.7 | 595.6 |
| 7.5° | 1402.0 | 1321.1 | 1134.5 | 929.3 | 725.7 | 523.1 | 384.4 | 293.2 | 235.0 | 217.7 | 227.0 |
| 10° | 1417.0 | 1304.4 | 1037.5 | 734.8 | 456.2 | 254.6 | 165.7 | 132.4 | 119.9 | 117.4 | 118.8 |
| 12.5° | 1429.3 | 1282.1 | 919.2 | 522.5 | 244.0 | 136.4 | 108.4 | 103.0 | 101.3 | 101.3 | 101.9 |
| 15° | 1436.8 | 1248.1 | 779.1 | 332.3 | 140.4 | 103.0 | 94.7 | 92.9 | 92.9 | 93.2 | 93.8 |
| 17.5° | 1435.9 | 1205.0 | 625.8 | 201.0 | 105.0 | 91.2 | 86.3 | 84.9 | 84.6 | 85.2 | 85.5 |
| 20° | 1425.3 | 1148.6 | 471.8 | 132.7 | 91.4 | 83.2 | 78.2 | 75.6 | 75.4 | 75.9 | 76.5 |
| 22.5° | 1405.2 | 1078.9 | 337.5 | 102.1 | 82.6 | 75.4 | 69.3 | 67.0 | 67.0 | 67.6 | 68.2 |
| 25° | 1380.7 | 993.8 | 230.8 | 86.7 | 74.5 | 67.0 | 61.3 | 59.2 | 59.8 | 61.3 | 61.5 |
| 27.5° | 1350.2 | 897.9 | 156.8 | 74.2 | 64.8 | 58.7 | 54.4 | 53.0 | 54.4 | 56.3 | 57.0 |
| 30° | 1324.1 | 798.1 | 111.9 | 64.1 | 55.0 | 50.7 | 48.1 | 48.1 | 50.0 | 53.8 | 54.7 |
| 32.5° | 1303.9 | 701.5 | 86.3 | 56.6 | 47.8 | 44.0 | 42.6 | 44.0 | 47.2 | 50.9 | 51.8 |
| 35° | 1301.3 | 621.7 | 73.0 | 50.7 | 42.6 | 38.9 | 38.3 | 40.8 | 44.0 | 46.9 | 47.4 |
| 37.5° | 1321.1 | 548.1 | 65.9 | 45.7 | 38.0 | 34.6 | 34.0 | 37.2 | 40.2 | 43.7 | 44.6 |
| 40° | 1358.9 | 490.2 | 60.7 | 41.1 | 34.2 | 30.5 | 29.4 | 31.6 | 36.0 | 40.5 | 41.7 |
| 42.5° | 1407.8 | 442.5 | 55.0 | 36.6 | 30.5 | 25.2 | 23.9 | 26.4 | 31.1 | 36.0 | 37.5 |
| 45° | 1454.4 | 401.4 | 48.6 | 31.4 | 25.6 | 19.6 | 19.0 | 22.5 | 24.7 | 29.6 | 30.8 |
| 47.5° | 1480.0 | 365.1 | 43.1 | 25.6 | 19.9 | 15.8 | 15.8 | 16.7 | 19.0 | 24.7 | 25.9 |
| 50° | 1471.4 | 336.1 | 37.5 | 19.0 | 13.8 | 12.0 | 12.0 | 11.8 | 15.3 | 19.9 | 20.8 |
| 52.5° | 1454.1 | 319.3 | 32.2 | 14.6 | 9.4 | 8.6 | 7.8 | 8.6 | 10.6 | 12.7 | 12.9 |
| 55° | 1451.5 | 316.5 | 27.0 | 11.8 | 6.6 | 5.7 | 4.3 | 4.3 | 4.3 | 4.0 | 3.5 |
| 57.5° | 1471.7 | 321.1 | 22.7 | 9.4 | 4.9 | 3.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1492.4 | 326.0 | 19.6 | 6.6 | 3.5 | 2.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1457.9 | 315.0 | 16.4 | 4.0 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1280.6 | 268.1 | 12.9 | 2.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 910.9 | 179.6 | 8.6 | 1.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 415.7 | 75.1 | 5.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 88.8 | 23.4 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 18.1 | 17.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5.7 | 26.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.5 | 19.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.5 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)