

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: P200598

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL2-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8023 lumens
Efficiency: N/A
Efficacy: 93.3 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

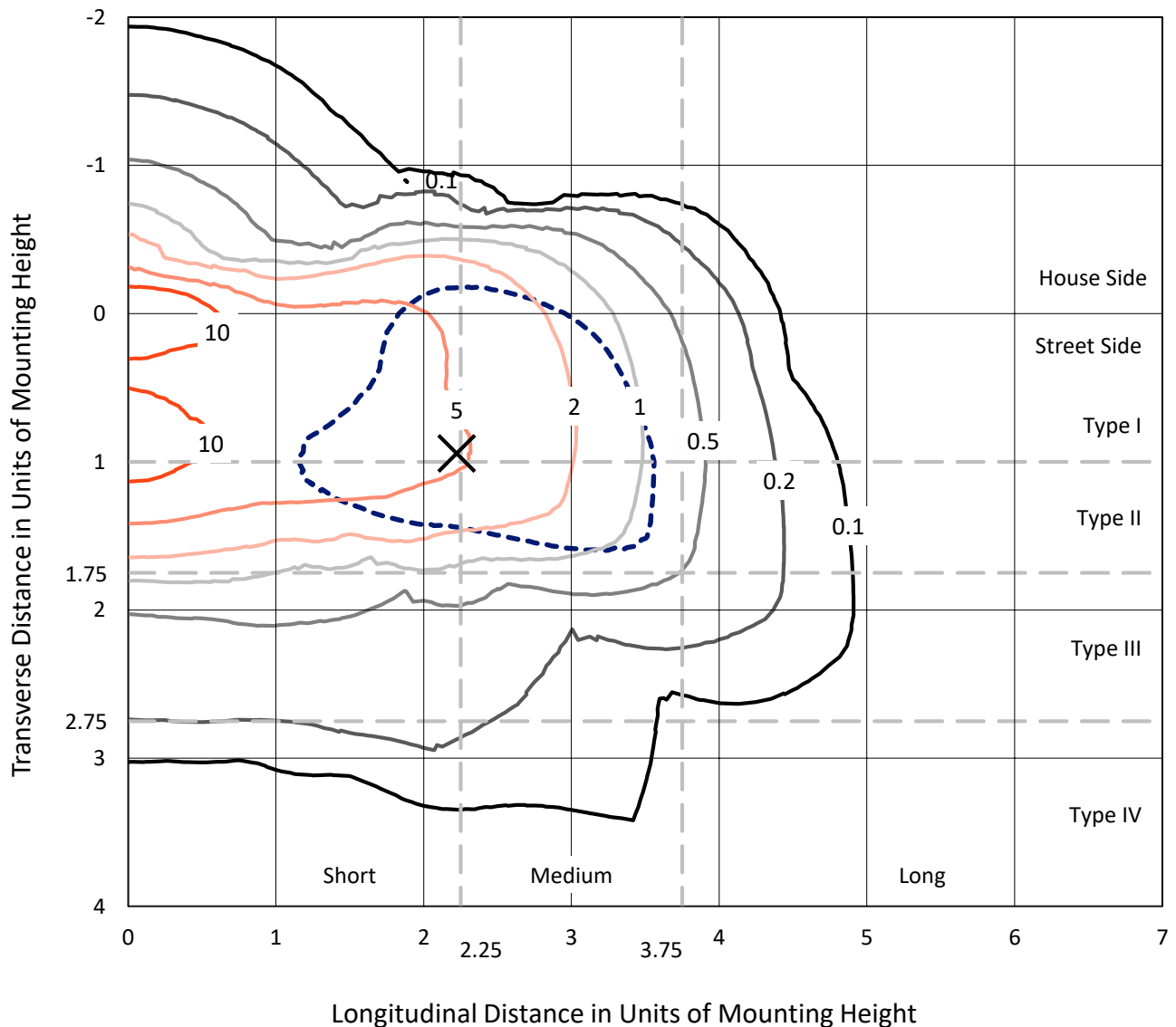
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

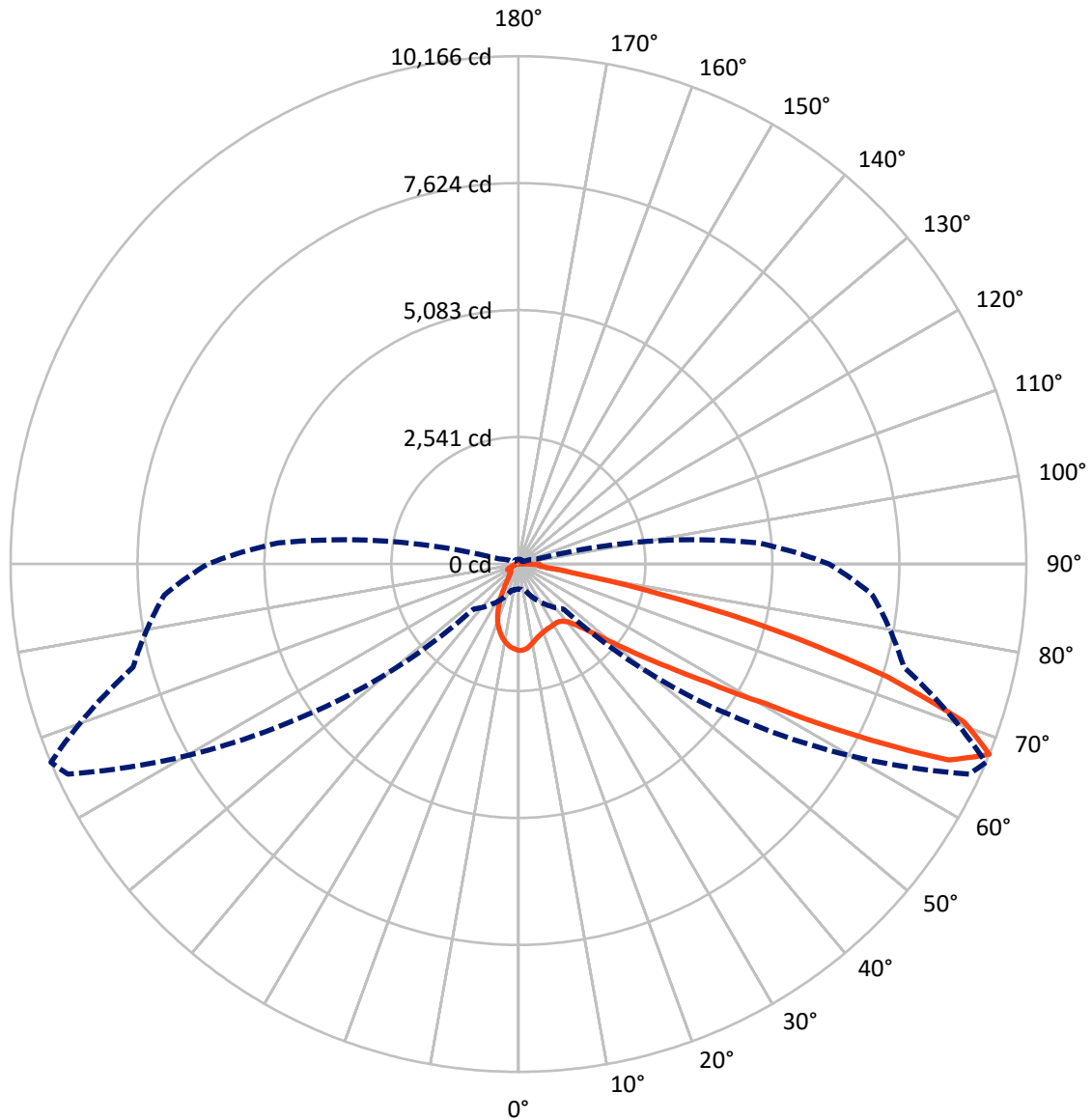


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1329.3 | 0.0 | 1329.3 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 6693.7 | 0.0 | 6693.7 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 8023.0 | 0.0 | 8023.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.6 | 1.8 |
| 10°-20° | 341.6 | 4.3 |
| 20°-30° | 463.1 | 5.8 |
| 30°-40° | 658.3 | 8.2 |
| 40°-50° | 1101.4 | 13.7 |
| 50°-60° | 1742.4 | 21.7 |
| 60°-70° | 2219.6 | 27.7 |
| 70°-80° | 1162.6 | 14.5 |
| 80°-90° | 186.5 | 2.3 |
| 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° | 8023.0 | 100.0 |
| 0°-180° | 8023.0 | 100.0 |

Coefficient of Utilization



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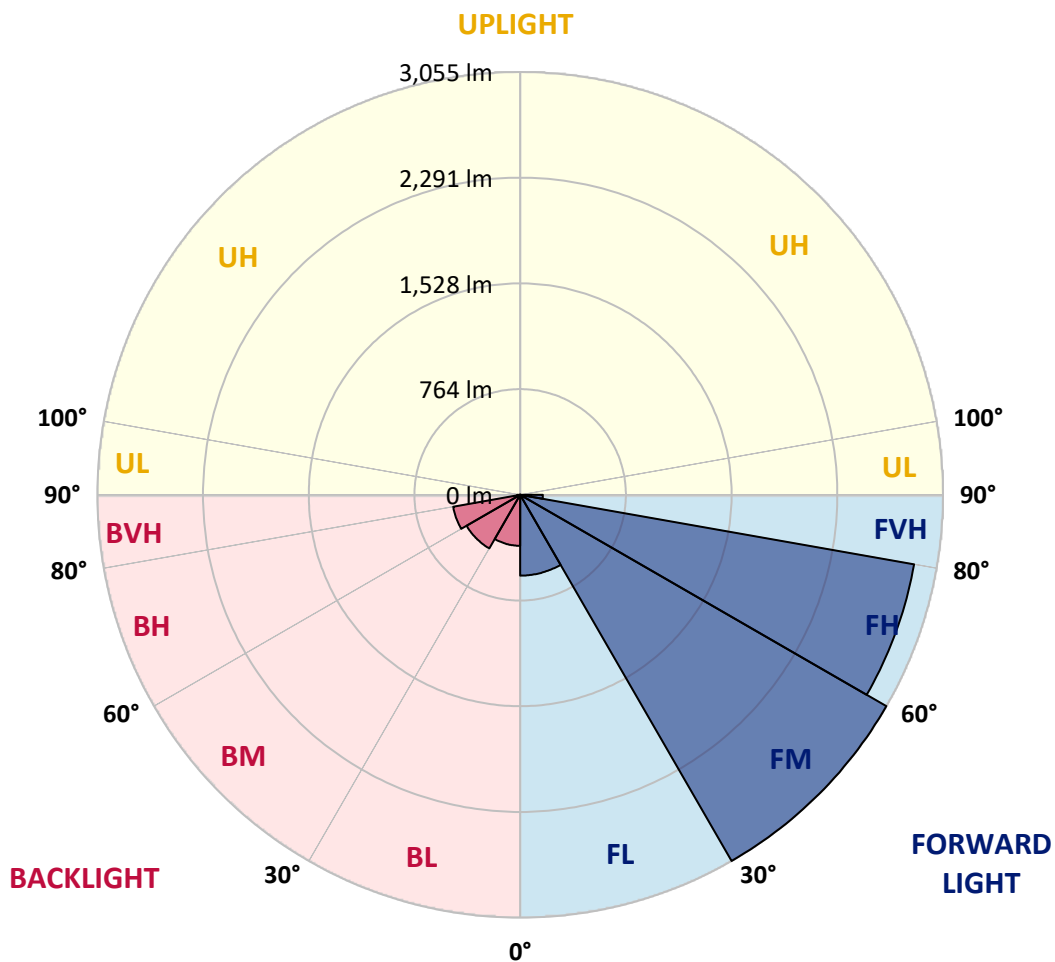
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 583.9 | 7.3 | | | |
| FM (30°-60°) | 3055.3 | 38.1 | | | |
| FH (60°-80°) | 2890.5 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 164.0 | 2.0 | | | G2/225 |
| BL (0°-30°) | 368.5 | 4.6 | B1/500 | | |
| BM (30°-60°) | 446.7 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 491.7 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.5 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 0° | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 |
| 2.5° | 1659.3 | 1662.1 | 1670.8 | 1676.3 | 1701.3 | 1711.9 | 1719.5 | 1727.0 | 1728.2 | 1731.7 | 1728.2 |
| 5° | 1485.2 | 1491.2 | 1507.4 | 1525.6 | 1573.9 | 1611.8 | 1651.8 | 1693.4 | 1700.9 | 1727.8 | 1735.3 |
| 7.5° | 1350.3 | 1348.7 | 1362.2 | 1384.0 | 1433.4 | 1486.0 | 1556.1 | 1638.8 | 1655.0 | 1715.5 | 1744.8 |
| 10° | 1251.8 | 1250.6 | 1264.9 | 1287.4 | 1334.5 | 1384.4 | 1463.5 | 1576.6 | 1599.6 | 1696.1 | 1753.9 |
| 12.5° | 1179.0 | 1179.4 | 1193.7 | 1218.6 | 1266.5 | 1316.7 | 1397.0 | 1516.5 | 1545.8 | 1673.6 | 1763.4 |
| 15° | 1130.7 | 1133.9 | 1145.4 | 1171.9 | 1218.6 | 1268.8 | 1347.6 | 1471.4 | 1504.2 | 1655.8 | 1774.1 |
| 17.5° | 1114.5 | 1119.7 | 1123.6 | 1143.0 | 1183.0 | 1233.2 | 1310.4 | 1438.2 | 1473.0 | 1643.5 | 1783.6 |
| 20° | 1129.6 | 1135.5 | 1128.0 | 1134.7 | 1160.0 | 1204.3 | 1281.1 | 1412.0 | 1447.7 | 1629.7 | 1784.7 |
| 22.5° | 1194.0 | 1199.6 | 1177.4 | 1158.0 | 1156.5 | 1183.4 | 1257.0 | 1391.5 | 1428.3 | 1619.4 | 1785.1 |
| 25° | 1307.6 | 1311.2 | 1274.0 | 1228.9 | 1185.0 | 1175.9 | 1239.9 | 1377.2 | 1416.4 | 1610.3 | 1777.6 |
| 27.5° | 1446.9 | 1449.6 | 1406.9 | 1340.4 | 1252.2 | 1193.7 | 1234.0 | 1368.9 | 1409.7 | 1602.4 | 1765.0 |
| 30° | 1616.2 | 1629.3 | 1571.9 | 1488.0 | 1359.4 | 1246.3 | 1245.9 | 1364.6 | 1402.2 | 1588.9 | 1740.0 |
| 32.5° | 1789.5 | 1795.0 | 1755.5 | 1670.4 | 1503.8 | 1338.9 | 1279.1 | 1367.7 | 1400.2 | 1572.7 | 1708.4 |
| 35° | 1965.2 | 1972.3 | 1946.6 | 1878.1 | 1701.3 | 1474.6 | 1344.0 | 1386.3 | 1412.4 | 1567.1 | 1686.2 |
| 37.5° | 2192.7 | 2202.1 | 2166.5 | 2087.4 | 1941.4 | 1658.5 | 1452.0 | 1433.0 | 1450.0 | 1583.0 | 1679.5 |
| 40° | 2552.3 | 2547.9 | 2443.9 | 2326.0 | 2204.1 | 1893.9 | 1606.3 | 1512.1 | 1522.0 | 1634.0 | 1700.1 |
| 42.5° | 2970.9 | 2960.2 | 2781.0 | 2595.8 | 2492.9 | 2178.8 | 1810.5 | 1649.4 | 1647.5 | 1734.5 | 1772.5 |
| 45° | 3304.8 | 3296.1 | 3134.7 | 2906.4 | 2824.1 | 2503.2 | 2074.4 | 1854.0 | 1839.3 | 1893.9 | 1906.2 |
| 47.5° | 3485.6 | 3486.0 | 3393.0 | 3206.7 | 3204.7 | 2915.5 | 2413.4 | 2149.9 | 2124.6 | 2150.3 | 2137.3 |
| 50° | 3422.3 | 3430.6 | 3420.7 | 3361.4 | 3552.1 | 3455.9 | 2856.1 | 2562.6 | 2511.5 | 2536.9 | 2486.6 |
| 52.5° | 3116.1 | 3126.8 | 3185.3 | 3276.3 | 3698.1 | 4109.1 | 3506.6 | 3075.3 | 3016.0 | 3006.9 | 2951.1 |
| 55° | 2573.3 | 2586.3 | 2705.8 | 2953.1 | 3576.6 | 4547.9 | 4532.9 | 3728.9 | 3634.4 | 3548.5 | 3524.8 |
| 57.5° | 1773.7 | 1795.4 | 1987.7 | 2354.9 | 3183.7 | 4680.5 | 5755.0 | 4660.7 | 4468.4 | 4168.5 | 4174.0 |
| 60° | 999.8 | 1025.1 | 1251.8 | 1585.3 | 2390.9 | 4536.4 | 6684.8 | 6071.9 | 5666.0 | 4894.5 | 4935.6 |
| 62.5° | 635.8 | 663.1 | 835.2 | 1101.5 | 1434.6 | 3761.0 | 7065.8 | 8033.9 | 7518.4 | 5789.4 | 5829.8 |
| 65° | 514.7 | 526.6 | 607.7 | 909.2 | 1041.7 | 2265.8 | 6776.6 | 9650.1 | 9457.8 | 6925.3 | 6737.0 |
| 67.5° | 502.5 | 506.4 | 548.4 | 763.2 | 999.0 | 1273.6 | 5405.3 | 9952.4 | 10165.6 | 7986.0 | 7114.8 |
| 70° | 496.5 | 510.4 | 618.0 | 728.4 | 956.7 | 1074.2 | 3248.2 | 9123.9 | 9460.6 | 8263.4 | 6612.0 |
| 72.5° | 240.9 | 240.2 | 311.0 | 658.7 | 1077.7 | 1114.1 | 1668.8 | 7382.3 | 7720.2 | 7159.2 | 5433.4 |
| 75° | 194.3 | 177.6 | 169.7 | 241.3 | 1036.2 | 1150.5 | 1063.5 | 5079.7 | 5324.2 | 4799.9 | 3340.0 |
| 77.5° | 184.4 | 164.6 | 150.7 | 151.1 | 438.0 | 1220.2 | 900.9 | 2811.4 | 2882.7 | 2168.1 | 915.1 |
| 80° | 152.7 | 134.5 | 124.6 | 140.5 | 212.1 | 1162.0 | 974.1 | 1272.4 | 1167.5 | 532.5 | 304.6 |
| 82.5° | 106.0 | 96.5 | 93.8 | 117.9 | 169.7 | 828.1 | 1132.7 | 683.7 | 573.3 | 266.7 | 187.9 |
| 85° | 67.7 | 57.8 | 64.1 | 85.9 | 132.1 | 382.2 | 1166.8 | 532.9 | 423.7 | 169.3 | 106.0 |
| 87.5° | 31.3 | 25.3 | 31.7 | 47.5 | 86.3 | 131.7 | 1110.2 | 598.6 | 436.4 | 89.4 | 66.9 |
| 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° | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 | 1730.5 |
| 2.5° | 1731.3 | 1723.8 | 1717.9 | 1706.8 | 1694.5 | 1682.7 | 1672.0 | 1658.5 | 1654.6 | 1651.0 | 1656.6 |
| 5° | 1736.9 | 1729.4 | 1707.6 | 1673.6 | 1636.0 | 1600.8 | 1565.6 | 1535.5 | 1516.9 | 1506.6 | 1512.5 |
| 7.5° | 1745.2 | 1734.5 | 1689.4 | 1626.9 | 1559.2 | 1497.5 | 1433.8 | 1382.8 | 1345.2 | 1327.4 | 1332.5 |
| 10° | 1752.7 | 1732.1 | 1658.5 | 1564.8 | 1465.9 | 1374.1 | 1273.6 | 1190.5 | 1128.8 | 1096.3 | 1104.2 |
| 12.5° | 1755.9 | 1723.0 | 1615.4 | 1487.2 | 1351.5 | 1217.0 | 1069.0 | 944.8 | 856.2 | 823.7 | 817.0 |
| 15° | 1759.0 | 1712.7 | 1567.9 | 1399.0 | 1213.4 | 1023.1 | 815.8 | 667.1 | 593.5 | 577.2 | 573.7 |
| 17.5° | 1759.8 | 1694.9 | 1514.1 | 1303.2 | 1051.6 | 792.5 | 557.9 | 463.3 | 463.7 | 489.8 | 493.0 |
| 20° | 1751.5 | 1668.4 | 1448.8 | 1184.2 | 857.8 | 548.0 | 383.0 | 366.8 | 426.5 | 491.8 | 499.7 |
| 22.5° | 1732.5 | 1633.2 | 1374.9 | 1045.3 | 635.8 | 360.8 | 296.3 | 314.1 | 391.3 | 471.2 | 480.3 |
| 25° | 1708.4 | 1590.5 | 1287.4 | 884.3 | 421.0 | 258.0 | 248.5 | 270.2 | 322.4 | 375.9 | 381.0 |
| 27.5° | 1675.5 | 1539.8 | 1189.3 | 699.9 | 273.4 | 212.5 | 218.8 | 233.4 | 254.8 | 278.5 | 280.9 |
| 30° | 1633.2 | 1479.3 | 1084.5 | 510.4 | 206.5 | 191.1 | 200.2 | 208.1 | 217.2 | 230.7 | 231.8 |
| 32.5° | 1584.5 | 1421.1 | 976.8 | 352.5 | 183.2 | 180.0 | 187.1 | 191.1 | 198.2 | 206.5 | 207.3 |
| 35° | 1543.8 | 1365.8 | 865.3 | 249.3 | 173.3 | 171.7 | 176.5 | 178.0 | 184.8 | 193.9 | 194.7 |
| 37.5° | 1520.5 | 1320.7 | 750.1 | 201.0 | 166.6 | 164.2 | 167.0 | 167.0 | 176.5 | 189.9 | 191.9 |
| 40° | 1522.0 | 1295.7 | 635.0 | 181.6 | 161.0 | 157.9 | 158.3 | 158.3 | 170.5 | 185.2 | 186.3 |
| 42.5° | 1565.2 | 1302.1 | 532.9 | 174.1 | 156.7 | 153.1 | 151.1 | 152.3 | 162.6 | 172.1 | 172.9 |
| 45° | 1666.4 | 1346.8 | 437.2 | 169.3 | 152.3 | 151.1 | 146.8 | 146.4 | 150.3 | 154.7 | 154.7 |
| 47.5° | 1832.6 | 1435.0 | 372.3 | 166.2 | 148.8 | 148.4 | 143.2 | 138.1 | 137.7 | 139.3 | 139.3 |
| 50° | 2102.8 | 1586.9 | 328.8 | 162.6 | 146.4 | 143.2 | 137.3 | 129.4 | 126.6 | 127.8 | 127.8 |
| 52.5° | 2508.0 | 1857.9 | 312.2 | 157.9 | 141.2 | 136.1 | 129.4 | 121.5 | 119.1 | 119.5 | 119.5 |
| 55° | 3039.3 | 2274.2 | 309.8 | 152.3 | 135.7 | 127.4 | 121.9 | 115.9 | 113.2 | 113.9 | 113.9 |
| 57.5° | 3688.6 | 2849.8 | 352.1 | 143.6 | 128.2 | 118.7 | 115.5 | 111.6 | 109.6 | 110.8 | 110.4 |
| 60° | 4477.9 | 3603.1 | 522.2 | 134.5 | 120.7 | 110.8 | 110.8 | 107.6 | 106.0 | 107.2 | 106.8 |
| 62.5° | 5387.1 | 4468.4 | 734.3 | 127.8 | 112.8 | 104.4 | 106.0 | 104.4 | 102.9 | 103.7 | 103.3 |
| 65° | 6193.4 | 5032.2 | 687.6 | 122.6 | 104.8 | 98.5 | 101.3 | 100.5 | 99.3 | 100.1 | 99.7 |
| 67.5° | 6216.7 | 4823.3 | 386.1 | 117.1 | 97.3 | 92.6 | 96.5 | 96.1 | 95.3 | 96.1 | 95.7 |
| 70° | 5548.1 | 4072.7 | 217.6 | 106.8 | 89.4 | 85.5 | 91.0 | 90.6 | 89.8 | 91.4 | 91.0 |
| 72.5° | 4445.0 | 2955.5 | 159.0 | 94.2 | 81.5 | 77.9 | 84.3 | 83.9 | 83.9 | 86.3 | 85.1 |
| 75° | 2557.8 | 1520.9 | 127.0 | 80.7 | 73.2 | 70.4 | 76.0 | 76.4 | 77.2 | 80.3 | 77.9 |
| 77.5° | 729.2 | 474.0 | 103.7 | 68.4 | 62.9 | 61.7 | 67.3 | 68.1 | 68.4 | 72.0 | 68.8 |
| 80° | 271.0 | 218.4 | 85.5 | 57.4 | 51.4 | 51.8 | 57.0 | 58.2 | 58.6 | 62.1 | 58.2 |
| 82.5° | 172.9 | 144.0 | 69.2 | 44.3 | 40.4 | 40.0 | 46.3 | 47.9 | 47.9 | 48.3 | 45.9 |
| 85° | 100.9 | 86.3 | 52.2 | 32.0 | 28.5 | 27.3 | 34.4 | 37.2 | 36.0 | 35.2 | 33.6 |
| 87.5° | 67.7 | 59.3 | 32.0 | 17.8 | 15.4 | 14.6 | 20.2 | 22.2 | 21.4 | 20.2 | 19.0 |
| 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)