

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584412

Luminaire Tested: **HC835D010-HM82555835-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555835-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

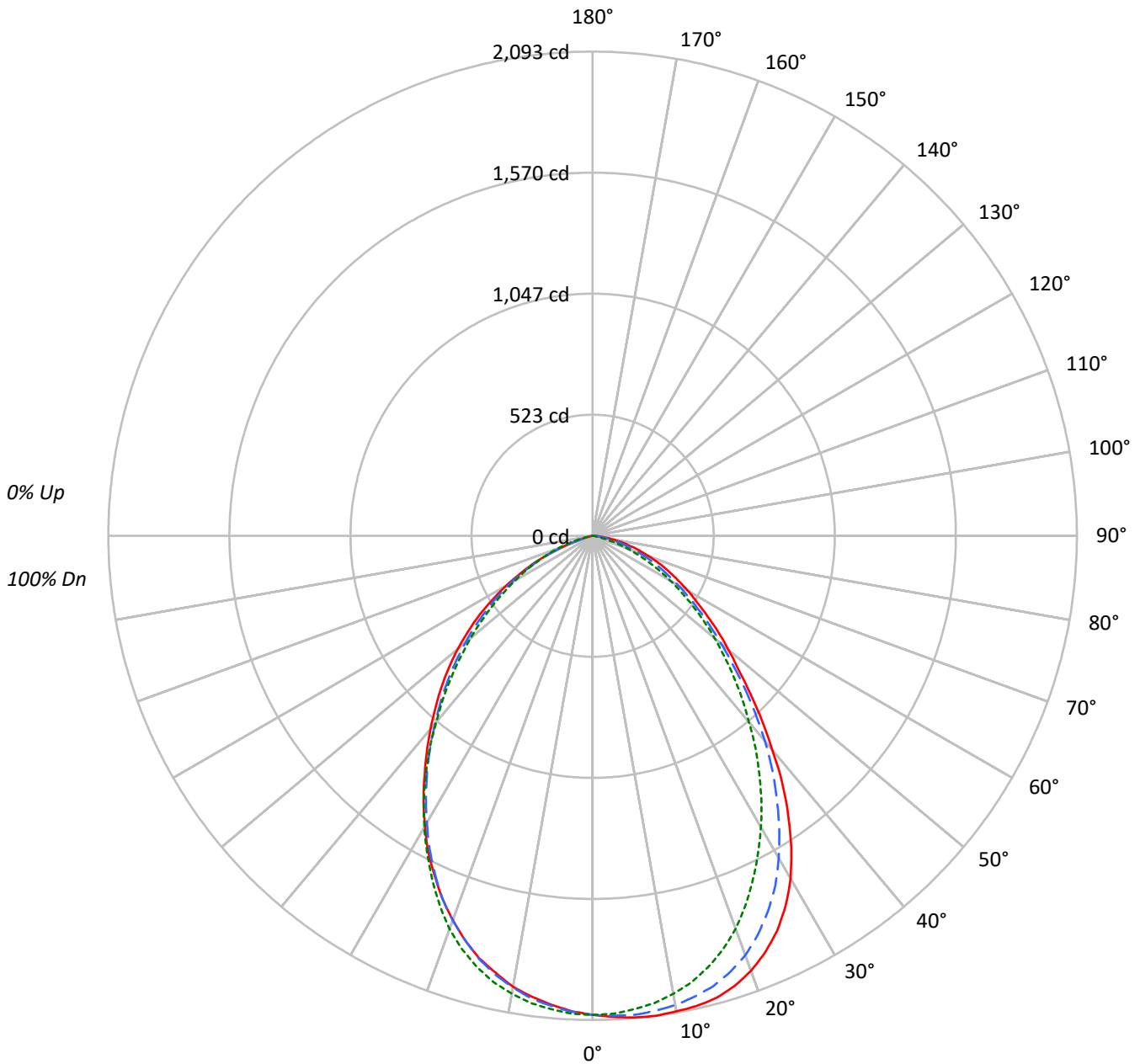
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584412

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Luminous Intensity Polar Plot





TEST NUMBER: P584412

CATALOG NUMBER: HC835D010-HM82555835-81RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 84 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 63859 | 63859 | 63859 |
| 5° | 64700 | 63586 | 62989 |
| 10° | 65361 | 62937 | 61985 |
| 15° | 66022 | 61610 | 60375 |
| 20° | 65686 | 59333 | 57975 |
| 25° | 64159 | 55786 | 55031 |
| 30° | 60941 | 51783 | 51583 |
| 35° | 55476 | 47255 | 47669 |
| 40° | 48635 | 42291 | 43849 |
| 45° | 41956 | 37622 | 40269 |
| 50° | 36742 | 33029 | 36479 |
| 55° | 32553 | 28391 | 32106 |
| 60° | 29332 | 23873 | 26599 |
| 65° | 26428 | 19161 | 20379 |
| 70° | 23180 | 13957 | 11225 |
| 75° | 19766 | 7256 | 2967 |
| 80° | 15219 | 1953 | 497 |
| 85° | 9800 | 0 | 0 |



TEST NUMBER: P584412

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 195.4 | 5.0 |
| 10°-20° | 549.3 | 14.0 |
| 20°-30° | 779.6 | 19.8 |
| 30°-40° | 820.6 | 20.9 |
| 40°-50° | 698.1 | 17.7 |
| 50°-60° | 504.5 | 12.8 |
| 60°-70° | 286.9 | 7.3 |
| 70°-80° | 90.4 | 2.3 |
| 80°-90° | 11.0 | 0.3 |
| 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°-30° | 1524.2 | 38.7 |
| 0°-40° | 2344.9 | 59.6 |
| 0°-60° | 3547.4 | 90.1 |
| 0°-90° | 3935.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3935.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2071 | 2071 | 2071 | 2071 | 2071 | |
| 5° | 2090 | 2079 | 2054 | 2040 | 2035 | 199 |
| 15° | 2068 | 2016 | 1930 | 1894 | 1891 | 582 |
| 25° | 1886 | 1792 | 1640 | 1612 | 1617 | 864 |
| 35° | 1474 | 1388 | 1255 | 1247 | 1266 | 917 |
| 45° | 962 | 926 | 863 | 885 | 923 | 748 |
| 55° | 606 | 561 | 528 | 558 | 597 | 546 |
| 65° | 362 | 312 | 263 | 260 | 279 | 359 |
| 75° | 166 | 127 | 61 | 28 | 25 | 178 |
| 85° | 28 | 16 | 0 | 0 | 0 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P584412

CATALOG NUMBER: HC835D010-HM82555835-81RWWC

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 |
| 2.5° | 2081.9 | 2084.6 | 2079.1 | 2079.1 | 2084.6 | 2079.1 | 2081.9 | 2081.9 | 2079.1 | 2079.1 | 2076.4 |
| 5° | 2090.2 | 2087.4 | 2087.4 | 2087.4 | 2090.2 | 2084.6 | 2081.9 | 2084.6 | 2079.1 | 2079.1 | 2079.1 |
| 7.5° | 2092.9 | 2092.9 | 2090.2 | 2087.4 | 2087.4 | 2087.4 | 2084.6 | 2081.9 | 2079.1 | 2073.6 | 2070.9 |
| 10° | 2087.4 | 2087.4 | 2090.2 | 2084.6 | 2084.6 | 2079.1 | 2079.1 | 2073.6 | 2073.6 | 2068.1 | 2059.8 |
| 12.5° | 2081.9 | 2079.1 | 2079.1 | 2073.6 | 2073.6 | 2068.1 | 2068.1 | 2059.8 | 2057.0 | 2048.7 | 2040.4 |
| 15° | 2068.1 | 2065.4 | 2059.8 | 2057.0 | 2054.2 | 2051.5 | 2045.9 | 2043.2 | 2034.9 | 2023.8 | 2015.5 |
| 17.5° | 2040.4 | 2037.7 | 2034.9 | 2029.4 | 2023.8 | 2021.0 | 2018.3 | 2010.0 | 1999.0 | 1990.7 | 1976.8 |
| 20° | 2001.7 | 1999.0 | 1999.0 | 1990.7 | 1987.8 | 1979.6 | 1976.8 | 1965.8 | 1957.5 | 1940.9 | 1929.9 |
| 22.5° | 1949.1 | 1951.9 | 1946.4 | 1940.9 | 1935.4 | 1927.1 | 1921.6 | 1910.5 | 1896.7 | 1880.0 | 1866.2 |
| 25° | 1885.7 | 1888.4 | 1882.8 | 1877.3 | 1869.0 | 1863.5 | 1858.0 | 1841.3 | 1827.5 | 1808.1 | 1791.6 |
| 27.5° | 1805.4 | 1805.4 | 1805.4 | 1799.9 | 1786.1 | 1783.3 | 1777.7 | 1761.2 | 1741.8 | 1725.2 | 1708.7 |
| 30° | 1711.5 | 1708.7 | 1708.7 | 1700.3 | 1694.8 | 1683.8 | 1675.5 | 1661.6 | 1647.8 | 1628.4 | 1609.2 |
| 32.5° | 1598.0 | 1600.8 | 1592.5 | 1587.0 | 1578.7 | 1578.7 | 1567.7 | 1556.6 | 1540.0 | 1520.6 | 1501.3 |
| 35° | 1473.7 | 1476.4 | 1470.9 | 1468.1 | 1454.3 | 1451.5 | 1448.7 | 1435.0 | 1423.8 | 1410.0 | 1387.9 |
| 37.5° | 1346.4 | 1343.7 | 1340.9 | 1340.9 | 1332.7 | 1327.1 | 1321.6 | 1313.2 | 1296.7 | 1285.7 | 1274.6 |
| 40° | 1208.2 | 1208.2 | 1208.2 | 1205.4 | 1202.7 | 1197.2 | 1194.4 | 1188.9 | 1177.8 | 1166.7 | 1158.5 |
| 42.5° | 1083.8 | 1083.8 | 1081.1 | 1078.3 | 1072.7 | 1075.6 | 1069.9 | 1064.4 | 1053.4 | 1045.1 | 1039.6 |
| 45° | 962.1 | 962.1 | 962.1 | 964.9 | 959.4 | 951.1 | 951.1 | 945.6 | 940.1 | 934.6 | 926.2 |
| 47.5° | 854.3 | 862.7 | 857.0 | 854.3 | 857.0 | 846.0 | 846.0 | 840.5 | 835.0 | 829.5 | 818.4 |
| 50° | 765.9 | 765.9 | 765.9 | 760.4 | 757.6 | 757.6 | 749.2 | 743.7 | 741.0 | 735.5 | 724.4 |
| 52.5° | 685.6 | 680.1 | 680.1 | 677.3 | 674.6 | 669.1 | 669.1 | 663.6 | 652.6 | 646.9 | 638.7 |
| 55° | 605.5 | 605.5 | 602.7 | 600.0 | 597.2 | 594.4 | 591.7 | 583.4 | 577.8 | 569.5 | 561.3 |
| 57.5° | 533.6 | 539.1 | 536.3 | 530.8 | 525.3 | 525.3 | 519.8 | 514.3 | 505.9 | 497.6 | 489.4 |
| 60° | 475.6 | 472.7 | 472.7 | 470.0 | 464.5 | 461.7 | 459.0 | 450.7 | 442.4 | 434.0 | 425.8 |
| 62.5° | 414.7 | 414.7 | 414.7 | 409.2 | 403.6 | 400.9 | 398.1 | 392.6 | 381.6 | 373.3 | 367.7 |
| 65° | 362.2 | 359.4 | 356.6 | 353.9 | 351.1 | 345.6 | 342.9 | 337.4 | 329.0 | 320.7 | 312.4 |
| 67.5° | 309.7 | 306.9 | 306.9 | 304.2 | 295.8 | 293.0 | 293.0 | 284.8 | 276.5 | 268.2 | 259.8 |
| 70° | 257.1 | 257.1 | 257.1 | 251.6 | 248.8 | 246.1 | 243.3 | 237.8 | 229.5 | 221.2 | 212.9 |
| 72.5° | 212.9 | 210.1 | 210.1 | 207.4 | 199.1 | 196.4 | 193.5 | 188.0 | 179.7 | 174.2 | 168.7 |
| 75° | 165.9 | 165.9 | 163.2 | 160.4 | 157.5 | 154.8 | 152.0 | 146.5 | 138.2 | 130.0 | 127.2 |
| 77.5° | 127.2 | 124.5 | 124.5 | 121.6 | 116.1 | 113.3 | 113.3 | 107.8 | 99.6 | 94.0 | 88.5 |
| 80° | 85.7 | 88.5 | 85.7 | 82.9 | 80.1 | 77.4 | 74.6 | 71.9 | 66.4 | 60.9 | 55.3 |
| 82.5° | 52.5 | 55.3 | 52.5 | 52.5 | 49.7 | 47.0 | 47.0 | 41.5 | 38.7 | 35.9 | 33.2 |
| 85° | 27.7 | 27.7 | 27.7 | 27.7 | 24.9 | 24.9 | 24.9 | 22.2 | 19.4 | 16.5 | 16.5 |
| 87.5° | 8.3 | 11.0 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 5.5 | 5.5 | 5.5 |
| 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 |
| 2.5° | 2079.1 | 2076.4 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2070.9 | 2068.1 | 2068.1 | 2068.1 |
| 5° | 2073.6 | 2073.6 | 2073.6 | 2070.9 | 2068.1 | 2068.1 | 2062.6 | 2059.8 | 2057.0 | 2054.2 | 2051.5 |
| 7.5° | 2068.1 | 2062.6 | 2059.8 | 2057.0 | 2054.2 | 2054.2 | 2048.7 | 2043.2 | 2043.2 | 2037.7 | 2032.2 |
| 10° | 2051.5 | 2048.7 | 2043.2 | 2037.7 | 2034.9 | 2032.2 | 2026.7 | 2018.3 | 2015.5 | 2010.0 | 2004.5 |
| 12.5° | 2032.2 | 2026.7 | 2021.0 | 2010.0 | 2007.2 | 2004.5 | 1993.5 | 1985.1 | 1979.6 | 1976.8 | 1963.0 |
| 15° | 2007.2 | 1996.2 | 1987.8 | 1974.1 | 1971.3 | 1965.8 | 1957.5 | 1949.1 | 1938.1 | 1929.9 | 1924.3 |
| 17.5° | 1963.0 | 1951.9 | 1938.1 | 1924.3 | 1918.7 | 1918.7 | 1904.9 | 1893.9 | 1880.0 | 1874.5 | 1863.5 |
| 20° | 1910.5 | 1896.7 | 1885.7 | 1869.0 | 1860.7 | 1852.5 | 1844.1 | 1827.5 | 1816.5 | 1808.1 | 1794.4 |
| 22.5° | 1849.7 | 1830.3 | 1816.5 | 1799.9 | 1786.1 | 1777.7 | 1763.9 | 1750.2 | 1736.3 | 1728.0 | 1717.0 |
| 25° | 1772.2 | 1755.7 | 1733.5 | 1717.0 | 1708.7 | 1697.6 | 1681.0 | 1667.1 | 1653.4 | 1639.6 | 1634.0 |
| 27.5° | 1686.5 | 1664.4 | 1645.1 | 1625.7 | 1617.4 | 1609.2 | 1589.7 | 1573.2 | 1562.1 | 1548.3 | 1542.8 |
| 30° | 1592.5 | 1570.5 | 1548.3 | 1531.8 | 1523.4 | 1509.6 | 1498.6 | 1479.2 | 1465.4 | 1454.3 | 1440.5 |
| 32.5° | 1484.7 | 1468.1 | 1448.7 | 1423.8 | 1418.3 | 1407.3 | 1390.6 | 1382.4 | 1365.8 | 1357.6 | 1346.4 |
| 35° | 1368.6 | 1357.6 | 1338.2 | 1318.8 | 1310.5 | 1305.0 | 1291.2 | 1274.6 | 1263.5 | 1255.3 | 1249.6 |
| 37.5° | 1258.0 | 1244.1 | 1224.8 | 1210.9 | 1205.4 | 1197.2 | 1180.6 | 1172.2 | 1161.2 | 1155.7 | 1144.7 |
| 40° | 1139.1 | 1125.3 | 1111.5 | 1103.1 | 1094.9 | 1089.3 | 1078.3 | 1069.9 | 1058.9 | 1050.6 | 1047.9 |
| 42.5° | 1023.0 | 1014.7 | 1003.7 | 992.5 | 989.8 | 981.5 | 976.0 | 967.6 | 959.4 | 956.6 | 948.3 |
| 45° | 917.9 | 909.6 | 898.6 | 887.5 | 884.7 | 879.2 | 876.5 | 868.2 | 862.7 | 862.7 | 862.7 |
| 47.5° | 812.8 | 804.6 | 793.6 | 787.9 | 790.7 | 779.7 | 779.7 | 776.9 | 771.4 | 771.4 | 774.1 |
| 50° | 718.8 | 707.8 | 705.0 | 699.5 | 694.0 | 688.5 | 691.2 | 682.9 | 682.9 | 688.5 | 685.6 |
| 52.5° | 630.4 | 619.4 | 616.6 | 611.0 | 608.2 | 608.2 | 605.5 | 605.5 | 602.7 | 605.5 | 605.5 |
| 55° | 550.2 | 541.9 | 536.3 | 530.8 | 528.1 | 528.1 | 528.1 | 525.3 | 522.6 | 528.1 | 530.8 |
| 57.5° | 478.4 | 475.6 | 470.0 | 461.7 | 459.0 | 456.2 | 453.4 | 453.4 | 453.4 | 453.4 | 456.2 |
| 60° | 414.7 | 409.2 | 403.6 | 395.3 | 395.3 | 392.6 | 389.8 | 387.1 | 387.1 | 387.1 | 387.1 |
| 62.5° | 359.4 | 351.1 | 342.9 | 337.4 | 334.6 | 331.7 | 329.0 | 323.5 | 323.5 | 323.5 | 323.5 |
| 65° | 304.2 | 295.8 | 290.3 | 284.8 | 279.3 | 279.3 | 273.7 | 271.0 | 265.5 | 262.6 | 257.1 |
| 67.5° | 251.6 | 246.1 | 240.6 | 232.3 | 229.5 | 226.7 | 221.2 | 218.4 | 210.1 | 207.4 | 204.6 |
| 70° | 204.6 | 196.4 | 190.7 | 185.2 | 182.5 | 176.9 | 171.4 | 165.9 | 160.4 | 154.8 | 149.3 |
| 72.5° | 160.4 | 152.0 | 146.5 | 141.0 | 135.5 | 135.5 | 127.2 | 121.6 | 113.3 | 107.8 | 99.6 |
| 75° | 118.8 | 110.6 | 105.1 | 96.8 | 94.0 | 91.3 | 82.9 | 77.4 | 69.1 | 60.9 | 55.3 |
| 77.5° | 80.1 | 74.6 | 69.1 | 60.9 | 55.3 | 55.3 | 47.0 | 41.5 | 35.9 | 27.7 | 24.9 |
| 80° | 49.7 | 44.2 | 38.7 | 33.2 | 33.2 | 27.7 | 24.9 | 19.4 | 13.8 | 11.0 | 8.3 |
| 82.5° | 27.7 | 24.9 | 22.2 | 16.5 | 16.5 | 13.8 | 11.0 | 8.3 | 5.5 | 2.8 | 2.8 |
| 85° | 13.8 | 11.0 | 8.3 | 8.3 | 5.5 | 5.5 | 5.5 | 2.8 | 2.8 | 0.0 | 0.0 |
| 87.5° | 5.5 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 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 |



TEST NUMBER: P584412

CATALOG NUMBER: HC835D010-HM82555835-81RWWC

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 |
| 2.5° | 2065.4 | 2065.4 | 2062.6 | 2062.6 | 2062.6 | 2059.8 | 2062.6 | 2059.8 | 2059.8 | 2059.8 | 2062.6 |
| 5° | 2054.2 | 2048.7 | 2048.7 | 2045.9 | 2045.9 | 2043.2 | 2045.9 | 2043.2 | 2040.4 | 2037.7 | 2040.4 |
| 7.5° | 2032.2 | 2026.7 | 2023.8 | 2021.0 | 2021.0 | 2021.0 | 2018.3 | 2015.5 | 2018.3 | 2010.0 | 2015.5 |
| 10° | 2001.7 | 1999.0 | 1993.5 | 1990.7 | 1987.8 | 1990.7 | 1987.8 | 1982.3 | 1982.3 | 1982.3 | 1979.6 |
| 12.5° | 1963.0 | 1957.5 | 1954.8 | 1951.9 | 1946.4 | 1946.4 | 1949.1 | 1943.6 | 1943.6 | 1938.1 | 1938.1 |
| 15° | 1916.0 | 1910.5 | 1904.9 | 1904.9 | 1899.4 | 1899.4 | 1896.7 | 1896.7 | 1893.9 | 1891.2 | 1891.2 |
| 17.5° | 1858.0 | 1849.7 | 1844.1 | 1846.8 | 1844.1 | 1841.3 | 1841.3 | 1835.8 | 1833.1 | 1835.8 | 1835.8 |
| 20° | 1788.9 | 1783.3 | 1777.7 | 1780.6 | 1775.0 | 1772.2 | 1775.0 | 1766.7 | 1769.4 | 1769.4 | 1769.4 |
| 22.5° | 1711.5 | 1708.7 | 1700.3 | 1700.3 | 1694.8 | 1692.1 | 1694.8 | 1694.8 | 1697.6 | 1694.8 | 1694.8 |
| 25° | 1625.7 | 1620.2 | 1614.7 | 1614.7 | 1611.9 | 1609.2 | 1611.9 | 1614.7 | 1611.9 | 1614.7 | 1614.7 |
| 27.5° | 1534.5 | 1526.1 | 1526.1 | 1520.6 | 1520.6 | 1523.4 | 1520.6 | 1523.4 | 1526.1 | 1526.1 | 1531.8 |
| 30° | 1435.0 | 1432.2 | 1429.5 | 1426.7 | 1426.7 | 1429.5 | 1429.5 | 1429.5 | 1432.2 | 1437.7 | 1437.7 |
| 32.5° | 1340.9 | 1335.4 | 1329.9 | 1329.9 | 1335.4 | 1332.7 | 1335.4 | 1335.4 | 1340.9 | 1340.9 | 1346.4 |
| 35° | 1238.6 | 1238.6 | 1233.1 | 1235.9 | 1235.9 | 1235.9 | 1235.9 | 1241.4 | 1246.9 | 1249.6 | 1255.3 |
| 37.5° | 1144.7 | 1136.3 | 1139.1 | 1139.1 | 1141.8 | 1139.1 | 1147.4 | 1147.4 | 1153.0 | 1153.0 | 1158.5 |
| 40° | 1042.4 | 1042.4 | 1045.1 | 1042.4 | 1045.1 | 1045.1 | 1050.6 | 1056.2 | 1058.9 | 1064.4 | 1067.2 |
| 42.5° | 945.6 | 951.1 | 945.6 | 948.3 | 951.1 | 953.8 | 956.6 | 959.4 | 970.5 | 976.0 | 984.3 |
| 45° | 857.0 | 859.8 | 862.7 | 865.4 | 862.7 | 868.2 | 870.9 | 876.5 | 884.7 | 887.5 | 890.2 |
| 47.5° | 771.4 | 774.1 | 776.9 | 779.7 | 779.7 | 785.2 | 787.9 | 793.6 | 799.1 | 801.8 | 804.6 |
| 50° | 688.5 | 694.0 | 696.8 | 696.8 | 699.5 | 705.0 | 710.5 | 710.5 | 716.0 | 724.4 | 727.2 |
| 52.5° | 613.7 | 613.7 | 619.4 | 622.1 | 624.9 | 624.9 | 633.1 | 635.9 | 638.7 | 644.2 | 649.7 |
| 55° | 530.8 | 539.1 | 541.9 | 541.9 | 547.5 | 553.0 | 555.8 | 558.5 | 558.5 | 569.5 | 569.5 |
| 57.5° | 459.0 | 461.7 | 467.2 | 467.2 | 467.2 | 475.6 | 475.6 | 481.1 | 483.9 | 486.6 | 492.1 |
| 60° | 387.1 | 392.6 | 392.6 | 395.3 | 392.6 | 398.1 | 400.9 | 406.5 | 409.2 | 412.0 | 414.7 |
| 62.5° | 320.7 | 320.7 | 323.5 | 323.5 | 323.5 | 323.5 | 329.0 | 329.0 | 334.6 | 337.4 | 340.1 |
| 65° | 257.1 | 257.1 | 257.1 | 257.1 | 257.1 | 257.1 | 257.1 | 257.1 | 259.8 | 259.8 | 265.5 |
| 67.5° | 199.1 | 196.4 | 190.7 | 193.5 | 190.7 | 190.7 | 188.0 | 188.0 | 190.7 | 190.7 | 196.4 |
| 70° | 143.8 | 141.0 | 135.5 | 135.5 | 132.7 | 130.0 | 127.2 | 124.5 | 121.6 | 121.6 | 121.6 |
| 72.5° | 94.0 | 88.5 | 80.1 | 77.4 | 77.4 | 71.9 | 66.4 | 63.6 | 63.6 | 63.6 | 63.6 |
| 75° | 47.0 | 41.5 | 35.9 | 33.2 | 33.2 | 27.7 | 30.4 | 27.7 | 27.7 | 27.7 | 27.7 |
| 77.5° | 19.4 | 13.8 | 11.0 | 11.0 | 11.0 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| 80° | 5.5 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 82.5° | 2.8 | 0.0 | 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 |



TEST NUMBER: P584412

CATALOG NUMBER: HC835D010-HM82555835-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 | 2070.9 |
| 2.5° | 2059.8 | 2059.8 | 2054.2 | 2057.0 | 2057.0 | 2057.0 | 2057.0 | 2057.0 |
| 5° | 2034.9 | 2037.7 | 2034.9 | 2037.7 | 2037.7 | 2034.9 | 2034.9 | 2034.9 |
| 7.5° | 2010.0 | 2012.8 | 2010.0 | 2012.8 | 2012.8 | 2012.8 | 2010.0 | 2010.0 |
| 10° | 1979.6 | 1979.6 | 1979.6 | 1979.6 | 1979.6 | 1976.8 | 1979.6 | 1979.6 |
| 12.5° | 1938.1 | 1938.1 | 1938.1 | 1940.9 | 1940.9 | 1938.1 | 1938.1 | 1935.4 |
| 15° | 1893.9 | 1888.4 | 1891.2 | 1893.9 | 1891.2 | 1891.2 | 1891.2 | 1891.2 |
| 17.5° | 1833.1 | 1835.8 | 1833.1 | 1833.1 | 1833.1 | 1833.1 | 1835.8 | 1833.1 |
| 20° | 1769.4 | 1769.4 | 1772.2 | 1769.4 | 1769.4 | 1769.4 | 1769.4 | 1766.7 |
| 22.5° | 1697.6 | 1694.8 | 1694.8 | 1697.6 | 1697.6 | 1694.8 | 1697.6 | 1697.6 |
| 25° | 1617.4 | 1620.2 | 1617.4 | 1617.4 | 1620.2 | 1620.2 | 1620.2 | 1617.4 |
| 27.5° | 1531.8 | 1534.5 | 1537.3 | 1534.5 | 1534.5 | 1534.5 | 1537.3 | 1540.0 |
| 30° | 1443.2 | 1448.7 | 1443.2 | 1443.2 | 1448.7 | 1446.0 | 1448.7 | 1448.7 |
| 32.5° | 1349.2 | 1357.6 | 1351.9 | 1357.6 | 1357.6 | 1360.3 | 1357.6 | 1360.3 |
| 35° | 1255.3 | 1263.5 | 1263.5 | 1263.5 | 1266.3 | 1269.0 | 1269.0 | 1266.3 |
| 37.5° | 1166.7 | 1169.5 | 1169.5 | 1175.0 | 1177.8 | 1180.6 | 1180.6 | 1177.8 |
| 40° | 1075.6 | 1081.1 | 1083.8 | 1083.8 | 1083.8 | 1089.3 | 1094.9 | 1089.3 |
| 42.5° | 987.0 | 989.8 | 992.5 | 992.5 | 998.1 | 1000.8 | 1003.7 | 1003.7 |
| 45° | 901.4 | 906.9 | 909.6 | 912.4 | 915.2 | 920.7 | 917.9 | 923.4 |
| 47.5° | 812.8 | 821.1 | 823.9 | 826.6 | 832.3 | 835.0 | 837.8 | 840.5 |
| 50° | 732.7 | 738.2 | 738.2 | 743.7 | 752.0 | 752.0 | 757.6 | 760.4 |
| 52.5° | 652.6 | 655.3 | 658.1 | 660.8 | 666.3 | 671.8 | 671.8 | 677.3 |
| 55° | 575.0 | 577.8 | 577.8 | 580.6 | 583.4 | 594.4 | 597.2 | 597.2 |
| 57.5° | 494.9 | 494.9 | 500.4 | 503.2 | 505.9 | 511.5 | 511.5 | 511.5 |
| 60° | 417.5 | 420.3 | 420.3 | 423.0 | 425.8 | 431.3 | 434.0 | 431.3 |
| 62.5° | 340.1 | 342.9 | 342.9 | 345.6 | 351.1 | 353.9 | 351.1 | 351.1 |
| 65° | 268.2 | 271.0 | 271.0 | 273.7 | 279.3 | 279.3 | 276.5 | 279.3 |
| 67.5° | 196.4 | 196.4 | 196.4 | 196.4 | 196.4 | 196.4 | 196.4 | 196.4 |
| 70° | 124.5 | 121.6 | 118.8 | 121.6 | 121.6 | 121.6 | 118.8 | 124.5 |
| 72.5° | 60.9 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 60.9 |
| 75° | 27.7 | 27.7 | 24.9 | 24.9 | 24.9 | 27.7 | 27.7 | 24.9 |
| 77.5° | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| 80° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 82.5° | 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 |
| 87.5° | 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 |



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)