

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: P593717

Luminaire Tested: **HC835D010-HM82555950-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555950-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549.9 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

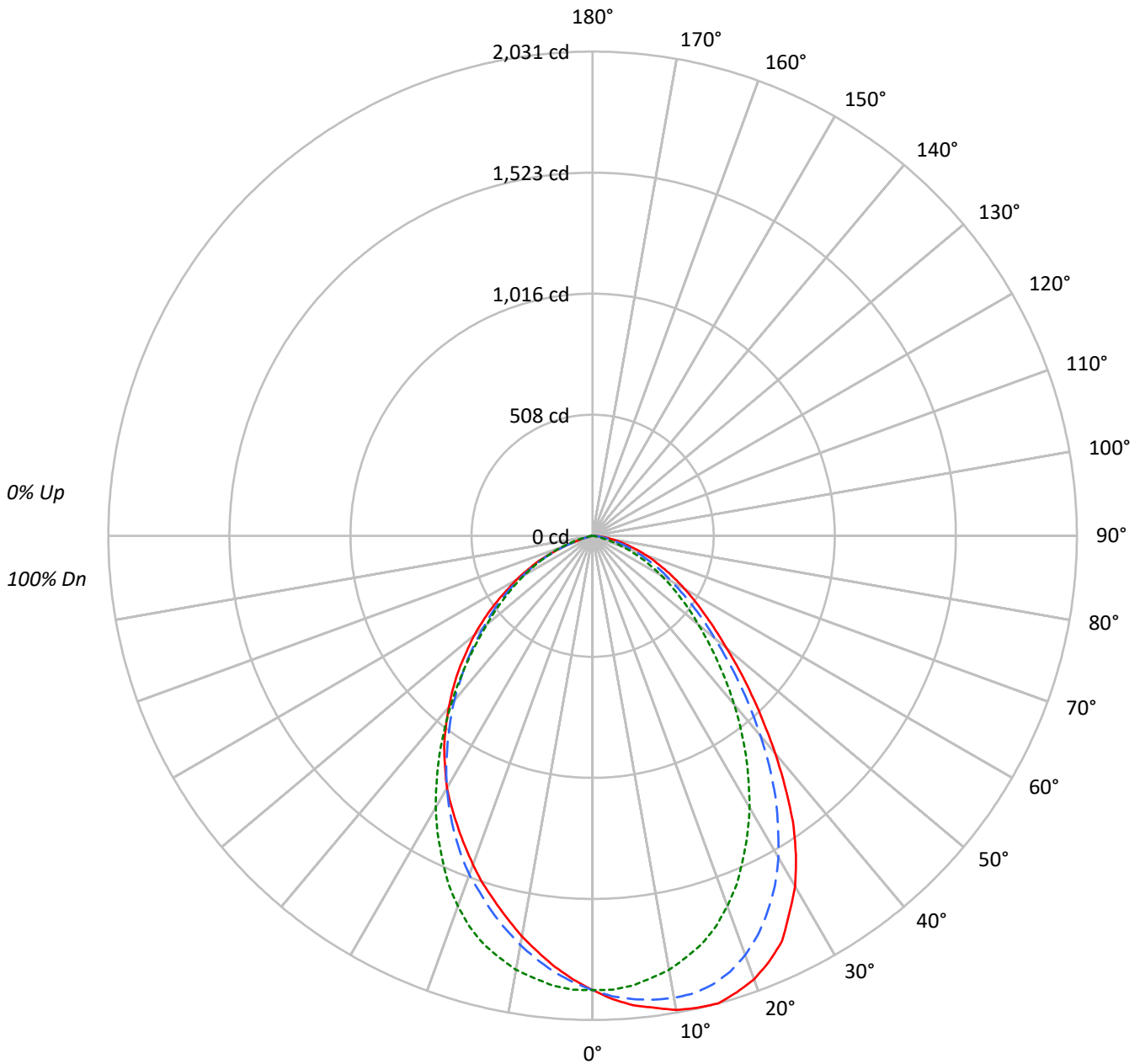
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

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 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 58768 | 58768 | 58768 |
| 5° | 61199 | 58639 | 56169 |
| 10° | 63241 | 57890 | 53431 |
| 15° | 64841 | 56563 | 50657 |
| 20° | 64968 | 54221 | 48143 |
| 25° | 63873 | 50788 | 45654 |
| 30° | 60453 | 46862 | 43515 |
| 35° | 55119 | 42143 | 40859 |
| 40° | 47934 | 37150 | 37726 |
| 45° | 41119 | 32175 | 34538 |
| 50° | 35121 | 27743 | 31024 |
| 55° | 30784 | 23897 | 26956 |
| 60° | 27413 | 20377 | 22659 |
| 65° | 24319 | 16629 | 18088 |
| 70° | 21566 | 12325 | 10269 |
| 75° | 17979 | 6446 | 3050 |
| 80° | 14171 | 2024 | 515 |
| 85° | 10084 | 1026 | 0 |



TEST NUMBER: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.6 | 5.1 |
| 10°-20° | 503.3 | 14.2 |
| 20°-30° | 712.4 | 20.1 |
| 30°-40° | 745.3 | 21.0 |
| 40°-50° | 621.6 | 17.5 |
| 50°-60° | 440.8 | 12.4 |
| 60°-70° | 253.9 | 7.2 |
| 70°-80° | 81.7 | 2.3 |
| 80°-90° | 11.3 | 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° | 1395.3 | 39.3 |
| 0°-40° | 2140.6 | 60.3 |
| 0°-60° | 3203.1 | 90.2 |
| 0°-90° | 3549.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3549.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1906 | 1906 | 1906 | 1906 | 1906 | |
| 5° | 1977 | 1951 | 1894 | 1837 | 1815 | 190 |
| 15° | 2031 | 1948 | 1772 | 1632 | 1587 | 571 |
| 25° | 1877 | 1738 | 1493 | 1373 | 1342 | 857 |
| 35° | 1464 | 1336 | 1120 | 1060 | 1085 | 908 |
| 45° | 943 | 866 | 738 | 746 | 792 | 731 |
| 55° | 573 | 513 | 444 | 467 | 501 | 517 |
| 65° | 333 | 279 | 228 | 228 | 248 | 333 |
| 75° | 151 | 111 | 54 | 26 | 26 | 164 |
| 85° | 28 | 14 | 3 | 0 | 0 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 |
| 2.5° | 1945.7 | 1942.8 | 1939.9 | 1942.8 | 1939.9 | 1942.8 | 1939.9 | 1939.9 | 1937.2 | 1934.3 | 1934.3 |
| 5° | 1977.1 | 1974.2 | 1974.2 | 1974.2 | 1971.3 | 1968.4 | 1968.4 | 1965.6 | 1959.9 | 1957.1 | 1951.4 |
| 7.5° | 1996.9 | 1999.8 | 1999.8 | 1999.8 | 1994.1 | 1994.1 | 1988.4 | 1982.7 | 1977.1 | 1971.3 | 1962.8 |
| 10° | 2019.7 | 2019.7 | 2016.8 | 2014.1 | 2008.3 | 2005.5 | 2002.7 | 1996.9 | 1988.4 | 1977.1 | 1968.4 |
| 12.5° | 2028.3 | 2028.3 | 2025.5 | 2019.7 | 2016.8 | 2014.1 | 2011.2 | 2002.7 | 1991.2 | 1977.1 | 1965.6 |
| 15° | 2031.1 | 2025.5 | 2022.6 | 2019.7 | 2014.1 | 2005.5 | 2005.5 | 1994.1 | 1979.8 | 1962.8 | 1948.5 |
| 17.5° | 2008.3 | 2011.2 | 2005.5 | 1999.8 | 1991.2 | 1985.6 | 1977.1 | 1968.4 | 1951.4 | 1931.4 | 1917.2 |
| 20° | 1979.8 | 1977.1 | 1974.2 | 1965.6 | 1954.2 | 1951.4 | 1942.8 | 1928.5 | 1914.3 | 1891.5 | 1871.6 |
| 22.5° | 1934.3 | 1931.4 | 1925.8 | 1920.0 | 1908.7 | 1902.9 | 1894.4 | 1877.3 | 1857.4 | 1834.6 | 1811.7 |
| 25° | 1877.3 | 1871.6 | 1863.0 | 1851.6 | 1843.1 | 1837.4 | 1826.0 | 1809.0 | 1786.1 | 1760.5 | 1737.7 |
| 27.5° | 1786.1 | 1794.7 | 1789.0 | 1771.8 | 1763.3 | 1752.0 | 1749.1 | 1726.3 | 1706.4 | 1680.8 | 1655.2 |
| 30° | 1697.8 | 1697.8 | 1689.3 | 1680.8 | 1666.5 | 1657.9 | 1646.5 | 1629.5 | 1609.5 | 1578.1 | 1558.2 |
| 32.5° | 1586.8 | 1583.9 | 1572.5 | 1569.6 | 1558.2 | 1541.1 | 1538.4 | 1515.5 | 1495.6 | 1472.8 | 1447.2 |
| 35° | 1464.2 | 1458.6 | 1447.2 | 1438.6 | 1432.9 | 1424.3 | 1415.8 | 1395.9 | 1375.9 | 1353.1 | 1336.0 |
| 37.5° | 1324.6 | 1324.6 | 1321.8 | 1307.6 | 1301.9 | 1296.1 | 1287.6 | 1267.7 | 1256.2 | 1233.5 | 1216.4 |
| 40° | 1190.8 | 1187.9 | 1179.3 | 1176.6 | 1170.8 | 1162.3 | 1156.5 | 1145.2 | 1128.0 | 1111.0 | 1093.9 |
| 42.5° | 1059.8 | 1062.6 | 1051.1 | 1054.0 | 1042.6 | 1037.0 | 1034.1 | 1017.0 | 1008.5 | 991.3 | 977.1 |
| 45° | 942.9 | 940.1 | 934.3 | 931.6 | 925.8 | 920.2 | 914.4 | 905.9 | 891.7 | 874.5 | 866.0 |
| 47.5° | 834.6 | 826.1 | 826.1 | 823.3 | 820.4 | 809.0 | 806.1 | 797.6 | 789.1 | 772.0 | 760.6 |
| 50° | 732.1 | 732.1 | 732.1 | 729.2 | 720.7 | 717.8 | 712.2 | 703.6 | 695.1 | 683.7 | 666.6 |
| 52.5° | 649.6 | 649.6 | 649.6 | 646.7 | 635.3 | 632.4 | 629.5 | 618.2 | 606.8 | 598.3 | 586.8 |
| 55° | 572.6 | 575.4 | 572.6 | 566.9 | 558.4 | 558.4 | 549.8 | 544.1 | 532.8 | 524.1 | 512.7 |
| 57.5° | 507.1 | 507.1 | 501.4 | 498.5 | 492.9 | 490.0 | 484.2 | 478.6 | 464.3 | 455.8 | 441.6 |
| 60° | 444.5 | 441.6 | 441.6 | 435.8 | 430.2 | 424.5 | 421.6 | 413.1 | 407.3 | 393.1 | 381.7 |
| 62.5° | 387.4 | 387.4 | 381.7 | 381.7 | 370.3 | 370.3 | 367.4 | 358.9 | 350.4 | 336.2 | 330.4 |
| 65° | 333.3 | 333.3 | 330.4 | 327.7 | 319.0 | 316.2 | 313.4 | 304.8 | 296.3 | 287.8 | 279.1 |
| 67.5° | 284.9 | 284.9 | 279.1 | 276.4 | 270.6 | 267.8 | 262.1 | 256.4 | 247.9 | 239.2 | 230.7 |
| 70° | 239.2 | 236.5 | 233.6 | 230.7 | 225.1 | 222.2 | 216.5 | 210.8 | 202.2 | 196.6 | 188.0 |
| 72.5° | 193.7 | 193.7 | 190.8 | 185.2 | 182.3 | 179.5 | 176.6 | 171.0 | 162.3 | 153.8 | 148.2 |
| 75° | 150.9 | 150.9 | 150.9 | 145.3 | 139.6 | 136.7 | 136.7 | 131.1 | 125.3 | 116.8 | 111.1 |
| 77.5° | 116.8 | 113.9 | 111.1 | 111.1 | 105.4 | 102.5 | 99.7 | 96.8 | 88.3 | 85.4 | 79.8 |
| 80° | 79.8 | 82.7 | 79.8 | 76.9 | 74.0 | 71.2 | 71.2 | 65.5 | 62.7 | 57.0 | 51.3 |
| 82.5° | 54.1 | 51.3 | 51.3 | 48.4 | 48.4 | 45.5 | 45.5 | 39.9 | 37.0 | 34.1 | 31.4 |
| 85° | 28.5 | 28.5 | 25.6 | 25.6 | 25.6 | 22.8 | 22.8 | 19.9 | 19.9 | 17.1 | 14.3 |
| 87.5° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 5.8 | 5.8 | 5.8 |
| 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: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 |
| 2.5° | 1931.4 | 1925.8 | 1922.9 | 1922.9 | 1920.0 | 1917.2 | 1914.3 | 1911.5 | 1905.8 | 1905.8 | 1900.1 |
| 5° | 1945.7 | 1939.9 | 1937.2 | 1928.5 | 1922.9 | 1922.9 | 1911.5 | 1908.7 | 1900.1 | 1894.4 | 1888.6 |
| 7.5° | 1957.1 | 1945.7 | 1937.2 | 1928.5 | 1922.9 | 1917.2 | 1905.8 | 1894.4 | 1883.0 | 1871.6 | 1865.9 |
| 10° | 1957.1 | 1945.7 | 1931.4 | 1917.2 | 1911.5 | 1905.8 | 1891.5 | 1874.5 | 1860.3 | 1848.8 | 1834.6 |
| 12.5° | 1951.4 | 1934.3 | 1917.2 | 1905.8 | 1894.4 | 1885.9 | 1868.8 | 1851.6 | 1834.6 | 1811.7 | 1800.4 |
| 15° | 1934.3 | 1911.5 | 1894.4 | 1874.5 | 1865.9 | 1851.6 | 1837.4 | 1811.7 | 1791.8 | 1771.8 | 1757.7 |
| 17.5° | 1900.1 | 1871.6 | 1851.6 | 1831.7 | 1817.5 | 1809.0 | 1786.1 | 1763.3 | 1740.6 | 1717.8 | 1700.7 |
| 20° | 1848.8 | 1823.1 | 1800.4 | 1774.7 | 1763.3 | 1752.0 | 1723.4 | 1700.7 | 1677.9 | 1652.3 | 1635.2 |
| 22.5° | 1786.1 | 1760.5 | 1729.2 | 1709.2 | 1692.2 | 1677.9 | 1652.3 | 1626.6 | 1603.9 | 1581.0 | 1558.2 |
| 25° | 1709.2 | 1683.5 | 1655.2 | 1623.8 | 1612.4 | 1598.1 | 1569.6 | 1544.0 | 1518.3 | 1492.7 | 1472.8 |
| 27.5° | 1626.6 | 1592.4 | 1569.6 | 1535.5 | 1524.1 | 1509.8 | 1478.5 | 1449.9 | 1427.2 | 1407.3 | 1384.5 |
| 30° | 1526.9 | 1501.2 | 1469.9 | 1438.6 | 1427.2 | 1412.9 | 1387.3 | 1361.6 | 1338.9 | 1316.1 | 1293.4 |
| 32.5° | 1418.7 | 1393.0 | 1361.6 | 1338.9 | 1321.8 | 1310.4 | 1284.7 | 1262.0 | 1239.2 | 1216.4 | 1196.4 |
| 35° | 1304.7 | 1276.2 | 1253.5 | 1230.6 | 1216.4 | 1202.2 | 1176.6 | 1156.5 | 1139.5 | 1119.5 | 1099.6 |
| 37.5° | 1187.9 | 1167.9 | 1145.2 | 1119.5 | 1105.3 | 1093.9 | 1074.0 | 1051.1 | 1037.0 | 1019.9 | 1005.6 |
| 40° | 1074.0 | 1051.1 | 1031.2 | 1008.5 | 997.1 | 988.5 | 968.6 | 951.5 | 937.2 | 922.9 | 914.4 |
| 42.5° | 957.2 | 937.2 | 917.3 | 903.1 | 894.5 | 885.9 | 871.7 | 851.8 | 843.3 | 829.0 | 820.4 |
| 45° | 848.9 | 831.8 | 817.6 | 797.6 | 792.0 | 786.2 | 769.1 | 754.9 | 746.4 | 737.8 | 732.1 |
| 47.5° | 746.4 | 735.0 | 717.8 | 706.5 | 698.0 | 692.2 | 680.8 | 669.4 | 660.9 | 655.2 | 649.6 |
| 50° | 658.1 | 643.8 | 632.4 | 621.0 | 615.3 | 606.8 | 595.4 | 589.7 | 584.0 | 578.3 | 578.3 |
| 52.5° | 575.4 | 561.1 | 549.8 | 541.3 | 535.5 | 529.9 | 521.4 | 518.5 | 512.7 | 512.7 | 509.9 |
| 55° | 498.5 | 490.0 | 478.6 | 467.2 | 464.3 | 461.5 | 455.8 | 450.1 | 447.2 | 444.5 | 447.2 |
| 57.5° | 433.0 | 424.5 | 413.1 | 404.6 | 401.7 | 398.8 | 395.9 | 390.3 | 387.4 | 387.4 | 387.4 |
| 60° | 373.2 | 364.7 | 356.0 | 347.5 | 347.5 | 341.8 | 339.0 | 336.2 | 333.3 | 330.4 | 330.4 |
| 62.5° | 319.0 | 310.5 | 302.0 | 296.3 | 293.4 | 290.5 | 284.9 | 282.0 | 279.1 | 279.1 | 276.4 |
| 65° | 270.6 | 259.2 | 256.4 | 247.9 | 245.0 | 242.1 | 239.2 | 233.6 | 230.7 | 227.9 | 225.1 |
| 67.5° | 222.2 | 216.5 | 208.0 | 202.2 | 199.5 | 196.6 | 193.7 | 188.0 | 185.2 | 182.3 | 176.6 |
| 70° | 179.5 | 173.8 | 168.1 | 162.3 | 159.6 | 156.7 | 150.9 | 145.3 | 142.4 | 136.7 | 128.2 |
| 72.5° | 139.6 | 133.9 | 128.2 | 122.4 | 119.7 | 116.8 | 111.1 | 105.4 | 99.7 | 94.0 | 88.3 |
| 75° | 105.4 | 99.7 | 91.2 | 85.4 | 82.7 | 82.7 | 74.0 | 68.4 | 62.7 | 54.1 | 48.4 |
| 77.5° | 74.0 | 65.5 | 62.7 | 57.0 | 54.1 | 48.4 | 42.8 | 37.0 | 31.4 | 28.5 | 22.8 |
| 80° | 48.4 | 42.8 | 37.0 | 34.1 | 31.4 | 28.5 | 25.6 | 19.9 | 14.3 | 11.4 | 8.5 |
| 82.5° | 28.5 | 25.6 | 22.8 | 19.9 | 17.1 | 14.3 | 11.4 | 11.4 | 8.5 | 5.8 | 2.9 |
| 85° | 14.3 | 11.4 | 8.5 | 8.5 | 5.8 | 5.8 | 5.8 | 2.9 | 2.9 | 2.9 | 2.9 |
| 87.5° | 5.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 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: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 |
| 2.5° | 1897.3 | 1894.4 | 1891.5 | 1888.6 | 1888.6 | 1883.0 | 1883.0 | 1880.1 | 1874.5 | 1871.6 | 1871.6 |
| 5° | 1880.1 | 1871.6 | 1865.9 | 1863.0 | 1860.3 | 1851.6 | 1848.8 | 1843.1 | 1837.4 | 1831.7 | 1828.9 |
| 7.5° | 1854.5 | 1840.2 | 1834.6 | 1831.7 | 1823.1 | 1814.6 | 1809.0 | 1800.4 | 1791.8 | 1783.3 | 1780.5 |
| 10° | 1823.1 | 1809.0 | 1794.7 | 1789.0 | 1780.5 | 1774.7 | 1763.3 | 1752.0 | 1743.4 | 1734.8 | 1726.3 |
| 12.5° | 1783.3 | 1766.2 | 1752.0 | 1746.2 | 1737.7 | 1726.3 | 1709.2 | 1703.6 | 1689.3 | 1683.5 | 1672.2 |
| 15° | 1737.7 | 1717.8 | 1703.6 | 1694.9 | 1686.4 | 1669.3 | 1657.9 | 1646.5 | 1632.3 | 1626.6 | 1615.3 |
| 17.5° | 1680.8 | 1657.9 | 1643.7 | 1635.2 | 1629.5 | 1615.3 | 1598.1 | 1583.9 | 1569.6 | 1564.0 | 1555.4 |
| 20° | 1612.4 | 1598.1 | 1578.1 | 1569.6 | 1564.0 | 1546.9 | 1529.7 | 1524.1 | 1512.7 | 1501.2 | 1492.7 |
| 22.5° | 1535.5 | 1521.2 | 1501.2 | 1492.7 | 1489.8 | 1475.6 | 1461.4 | 1452.8 | 1444.3 | 1435.8 | 1427.2 |
| 25° | 1455.7 | 1438.6 | 1421.5 | 1415.8 | 1410.2 | 1398.7 | 1387.3 | 1381.7 | 1373.0 | 1367.4 | 1361.6 |
| 27.5° | 1370.3 | 1353.1 | 1338.9 | 1330.4 | 1324.6 | 1316.1 | 1310.4 | 1304.7 | 1299.0 | 1293.4 | 1290.5 |
| 30° | 1279.1 | 1262.0 | 1250.6 | 1244.8 | 1239.2 | 1236.3 | 1227.8 | 1225.0 | 1222.1 | 1216.4 | 1219.2 |
| 32.5° | 1187.9 | 1173.7 | 1162.3 | 1153.7 | 1153.7 | 1148.0 | 1145.2 | 1145.2 | 1142.3 | 1142.3 | 1142.3 |
| 35° | 1088.3 | 1079.6 | 1071.1 | 1068.3 | 1065.4 | 1062.6 | 1059.8 | 1062.6 | 1059.8 | 1062.6 | 1065.4 |
| 37.5° | 997.1 | 988.5 | 982.8 | 980.0 | 977.1 | 980.0 | 977.1 | 977.1 | 980.0 | 985.6 | 988.5 |
| 40° | 903.1 | 897.3 | 891.7 | 894.5 | 891.7 | 891.7 | 891.7 | 900.2 | 903.1 | 905.9 | 908.7 |
| 42.5° | 814.8 | 809.0 | 806.1 | 806.1 | 809.0 | 806.1 | 811.9 | 814.8 | 820.4 | 829.0 | 834.6 |
| 45° | 729.2 | 726.5 | 726.5 | 729.2 | 726.5 | 732.1 | 732.1 | 737.8 | 746.4 | 752.1 | 757.7 |
| 47.5° | 649.6 | 649.6 | 649.6 | 652.3 | 652.3 | 655.2 | 660.9 | 663.7 | 669.4 | 675.2 | 680.8 |
| 50° | 575.4 | 578.3 | 581.1 | 581.1 | 581.1 | 586.8 | 592.5 | 595.4 | 598.3 | 601.0 | 609.7 |
| 52.5° | 509.9 | 512.7 | 512.7 | 515.6 | 518.5 | 521.4 | 524.1 | 529.9 | 532.8 | 538.4 | 541.3 |
| 55° | 447.2 | 447.2 | 453.0 | 455.8 | 455.8 | 455.8 | 461.5 | 461.5 | 467.2 | 470.1 | 475.7 |
| 57.5° | 387.4 | 390.3 | 390.3 | 393.1 | 393.1 | 395.9 | 398.8 | 401.7 | 404.6 | 407.3 | 410.2 |
| 60° | 330.4 | 330.4 | 330.4 | 333.3 | 336.2 | 339.0 | 336.2 | 341.8 | 341.8 | 347.5 | 350.4 |
| 62.5° | 276.4 | 279.1 | 279.1 | 279.1 | 279.1 | 279.1 | 279.1 | 282.0 | 284.9 | 287.8 | 290.5 |
| 65° | 225.1 | 225.1 | 225.1 | 222.2 | 225.1 | 222.2 | 225.1 | 227.9 | 227.9 | 230.7 | 233.6 |
| 67.5° | 173.8 | 173.8 | 168.1 | 168.1 | 171.0 | 171.0 | 171.0 | 171.0 | 168.1 | 173.8 | 173.8 |
| 70° | 125.3 | 122.4 | 119.7 | 116.8 | 116.8 | 113.9 | 113.9 | 111.1 | 111.1 | 111.1 | 111.1 |
| 72.5° | 82.7 | 76.9 | 71.2 | 68.4 | 65.5 | 65.5 | 59.8 | 57.0 | 59.8 | 59.8 | 59.8 |
| 75° | 42.8 | 37.0 | 34.1 | 31.4 | 28.5 | 28.5 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 77.5° | 17.1 | 14.3 | 11.4 | 11.4 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 80° | 5.8 | 5.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 82.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 85° | 2.9 | 0.0 | 0.0 | 2.9 | 0.0 | 2.9 | 2.9 | 2.9 | 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: P593717

CATALOG NUMBER: HC835D010-HM82555950-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 | 1905.8 |
| 2.5° | 1868.8 | 1868.8 | 1865.9 | 1868.8 | 1863.0 | 1865.9 | 1863.0 | 1863.0 |
| 5° | 1826.0 | 1820.4 | 1820.4 | 1820.4 | 1817.5 | 1817.5 | 1814.6 | 1814.6 |
| 7.5° | 1774.7 | 1771.8 | 1769.1 | 1766.2 | 1763.3 | 1760.5 | 1760.5 | 1760.5 |
| 10° | 1723.4 | 1717.8 | 1717.8 | 1714.9 | 1709.2 | 1706.4 | 1706.4 | 1706.4 |
| 12.5° | 1663.7 | 1660.8 | 1657.9 | 1657.9 | 1646.5 | 1649.4 | 1646.5 | 1646.5 |
| 15° | 1606.6 | 1603.9 | 1603.9 | 1595.3 | 1589.6 | 1589.6 | 1589.6 | 1586.8 |
| 17.5° | 1546.9 | 1544.0 | 1541.1 | 1535.5 | 1529.7 | 1529.7 | 1526.9 | 1529.7 |
| 20° | 1484.2 | 1481.3 | 1475.6 | 1475.6 | 1472.8 | 1469.9 | 1464.2 | 1467.1 |
| 22.5° | 1421.5 | 1415.8 | 1412.9 | 1412.9 | 1410.2 | 1410.2 | 1404.4 | 1404.4 |
| 25° | 1356.0 | 1353.1 | 1350.3 | 1353.1 | 1347.4 | 1347.4 | 1341.8 | 1341.8 |
| 27.5° | 1287.6 | 1284.7 | 1284.7 | 1284.7 | 1281.9 | 1284.7 | 1281.9 | 1281.9 |
| 30° | 1219.2 | 1219.2 | 1216.4 | 1216.4 | 1219.2 | 1216.4 | 1219.2 | 1222.1 |
| 32.5° | 1145.2 | 1145.2 | 1148.0 | 1148.0 | 1150.9 | 1150.9 | 1150.9 | 1150.9 |
| 35° | 1068.3 | 1074.0 | 1074.0 | 1076.8 | 1079.6 | 1082.5 | 1082.5 | 1085.4 |
| 37.5° | 997.1 | 999.9 | 1002.7 | 1005.6 | 1011.4 | 1011.4 | 1011.4 | 1011.4 |
| 40° | 920.2 | 922.9 | 928.7 | 925.8 | 937.2 | 940.1 | 937.2 | 937.2 |
| 42.5° | 840.4 | 846.0 | 848.9 | 854.7 | 857.4 | 863.2 | 866.0 | 866.0 |
| 45° | 766.4 | 769.1 | 774.9 | 780.5 | 783.4 | 792.0 | 792.0 | 792.0 |
| 47.5° | 689.3 | 695.1 | 698.0 | 703.6 | 706.5 | 715.0 | 717.8 | 715.0 |
| 50° | 615.3 | 621.0 | 626.7 | 626.7 | 635.3 | 638.1 | 643.8 | 646.7 |
| 52.5° | 544.1 | 547.0 | 552.6 | 555.5 | 561.1 | 566.9 | 569.8 | 572.6 |
| 55° | 475.7 | 478.6 | 484.2 | 484.2 | 492.9 | 495.7 | 501.4 | 501.4 |
| 57.5° | 413.1 | 415.9 | 421.6 | 418.7 | 424.5 | 430.2 | 430.2 | 427.3 |
| 60° | 353.3 | 353.3 | 353.3 | 358.9 | 361.8 | 364.7 | 367.4 | 367.4 |
| 62.5° | 290.5 | 296.3 | 299.1 | 299.1 | 302.0 | 304.8 | 304.8 | 302.0 |
| 65° | 233.6 | 239.2 | 242.1 | 242.1 | 245.0 | 245.0 | 245.0 | 247.9 |
| 67.5° | 176.6 | 176.6 | 176.6 | 179.5 | 176.6 | 176.6 | 176.6 | 176.6 |
| 70° | 111.1 | 111.1 | 111.1 | 111.1 | 108.3 | 111.1 | 111.1 | 113.9 |
| 72.5° | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 |
| 75° | 25.6 | 25.6 | 25.6 | 28.5 | 25.6 | 25.6 | 25.6 | 25.6 |
| 77.5° | 11.4 | 8.5 | 11.4 | 11.4 | 8.5 | 8.5 | 8.5 | 8.5 |
| 80° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 82.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 85° | 0.0 | 2.9 | 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 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





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













(END OF REPORT)