

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: P593702

Luminaire Tested: **HC835D010-HM82555850-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555850-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4238.7 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

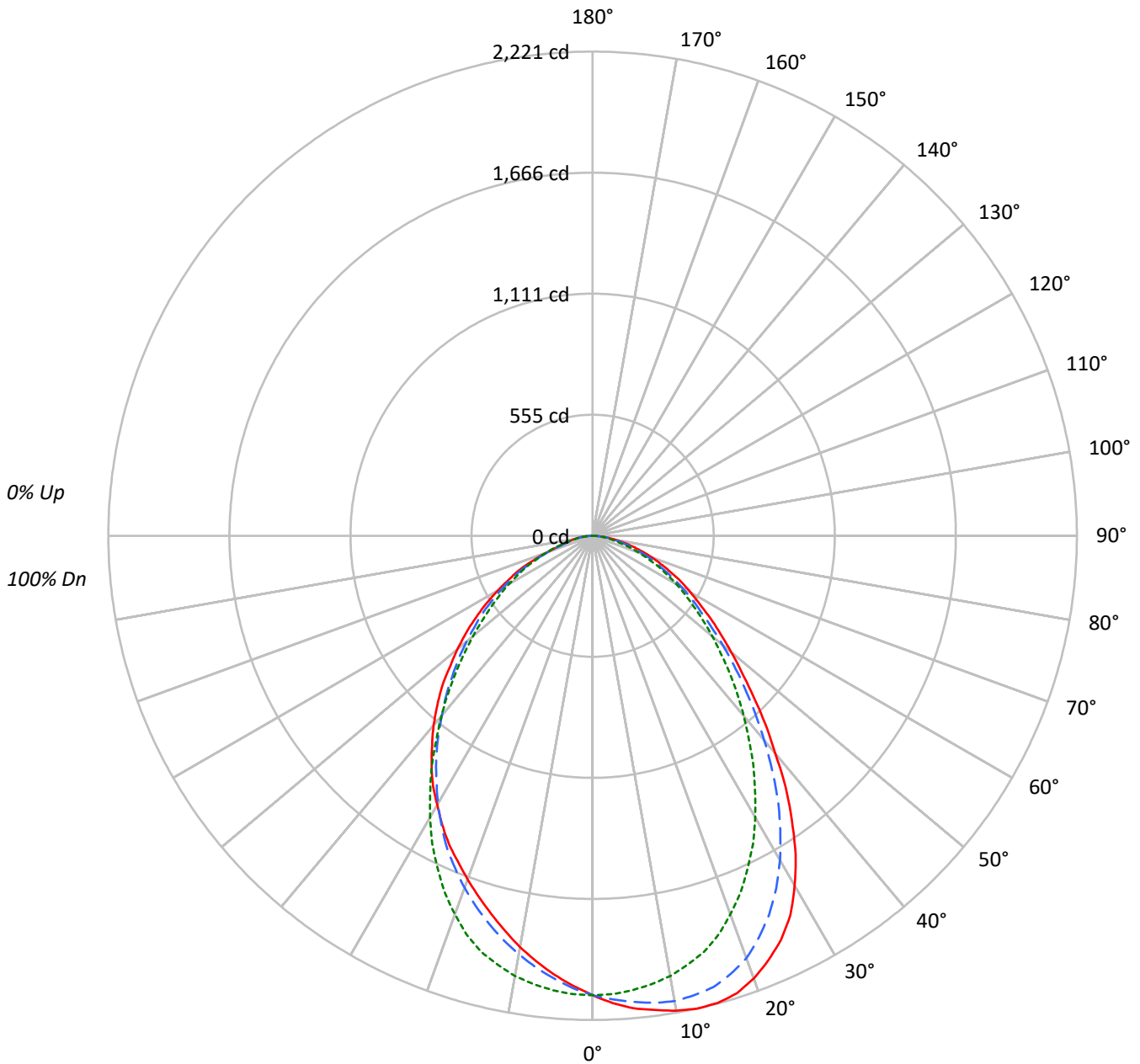
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593702

CATALOG NUMBER: HC835D010-HM82555850-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P593702

CATALOG NUMBER: HC835D010-HM82555850-81WWWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | | | | |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | | | | | |
| 5 | 80 | 69 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | | | | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 | | | | | | | | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | | | | | | | | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 64988 | 64988 | 64988 |
| 5° | 67369 | 64771 | 62549 |
| 10° | 69268 | 64208 | 59994 |
| 15° | 70814 | 63072 | 57342 |
| 20° | 70927 | 60613 | 55015 |
| 25° | 69566 | 57242 | 53067 |
| 30° | 65983 | 53082 | 50736 |
| 35° | 59952 | 48346 | 48459 |
| 40° | 52419 | 43382 | 45672 |
| 45° | 45432 | 38646 | 42558 |
| 50° | 39784 | 34320 | 38776 |
| 55° | 35402 | 30418 | 35085 |
| 60° | 31940 | 27321 | 30830 |
| 65° | 28828 | 24027 | 26873 |
| 70° | 25912 | 20241 | 19970 |
| 75° | 22828 | 16048 | 14988 |
| 80° | 19143 | 13301 | 14366 |
| 85° | 14825 | 11640 | 12702 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 198.8 | 4.7 |
| 10°-20° | 560.0 | 13.2 |
| 20°-30° | 800.3 | 18.9 |
| 30°-40° | 850.4 | 20.1 |
| 40°-50° | 732.1 | 17.3 |
| 50°-60° | 547.4 | 12.9 |
| 60°-70° | 349.1 | 8.2 |
| 70°-80° | 158.9 | 3.7 |
| 80°-90° | 41.7 | 1.0 |
| 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° | 1559.1 | 36.8 |
| 0°-40° | 2409.5 | 56.8 |
| 0°-60° | 3689.0 | 87.0 |
| 0°-90° | 4238.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4238.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2108 | 2108 | 2108 | 2108 | 2108 | |
| 5° | 2176 | 2146 | 2092 | 2039 | 2021 | 209 |
| 15° | 2218 | 2144 | 1976 | 1841 | 1796 | 625 |
| 25° | 2045 | 1916 | 1682 | 1581 | 1560 | 936 |
| 35° | 1593 | 1482 | 1284 | 1251 | 1287 | 992 |
| 45° | 1042 | 985 | 886 | 910 | 976 | 810 |
| 55° | 658 | 605 | 566 | 614 | 653 | 592 |
| 65° | 395 | 350 | 329 | 344 | 368 | 394 |
| 75° | 192 | 165 | 135 | 123 | 126 | 204 |
| 85° | 42 | 36 | 33 | 36 | 36 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593702

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 |
| 2.5° | 2146.5 | 2140.5 | 2143.5 | 2140.5 | 2143.5 | 2143.5 | 2137.5 | 2137.5 | 2137.5 | 2137.5 | 2128.5 |
| 5° | 2176.4 | 2173.4 | 2173.4 | 2170.4 | 2167.4 | 2170.4 | 2167.4 | 2164.4 | 2158.4 | 2155.4 | 2146.5 |
| 7.5° | 2194.3 | 2194.3 | 2194.3 | 2194.3 | 2191.4 | 2188.4 | 2185.4 | 2179.4 | 2173.4 | 2167.4 | 2161.4 |
| 10° | 2212.2 | 2215.2 | 2212.2 | 2209.2 | 2206.2 | 2200.2 | 2197.3 | 2191.4 | 2182.4 | 2173.4 | 2167.4 |
| 12.5° | 2221.2 | 2221.2 | 2218.2 | 2218.2 | 2212.2 | 2209.2 | 2200.2 | 2191.4 | 2182.4 | 2173.4 | 2158.4 |
| 15° | 2218.2 | 2218.2 | 2215.2 | 2212.2 | 2203.2 | 2200.2 | 2194.3 | 2185.4 | 2170.4 | 2158.4 | 2143.5 |
| 17.5° | 2200.2 | 2197.3 | 2191.4 | 2191.4 | 2179.4 | 2176.4 | 2170.4 | 2158.4 | 2143.5 | 2125.5 | 2107.5 |
| 20° | 2161.4 | 2161.4 | 2158.4 | 2155.4 | 2143.5 | 2134.5 | 2128.5 | 2113.5 | 2101.5 | 2080.6 | 2062.6 |
| 22.5° | 2107.5 | 2113.5 | 2107.5 | 2101.5 | 2086.6 | 2083.6 | 2074.6 | 2056.6 | 2038.6 | 2014.7 | 1993.7 |
| 25° | 2044.6 | 2041.6 | 2038.6 | 2032.6 | 2020.7 | 2014.7 | 2002.7 | 1984.7 | 1966.8 | 1939.8 | 1916.0 |
| 27.5° | 1963.8 | 1951.8 | 1951.8 | 1939.8 | 1930.9 | 1922.0 | 1916.0 | 1898.0 | 1874.0 | 1853.1 | 1823.1 |
| 30° | 1853.1 | 1856.1 | 1841.1 | 1838.1 | 1823.1 | 1817.1 | 1805.1 | 1787.2 | 1766.2 | 1742.3 | 1718.3 |
| 32.5° | 1733.3 | 1724.3 | 1724.3 | 1712.3 | 1700.3 | 1691.3 | 1688.3 | 1667.5 | 1649.5 | 1625.6 | 1601.6 |
| 35° | 1592.6 | 1592.6 | 1583.6 | 1580.6 | 1568.7 | 1562.7 | 1553.7 | 1541.7 | 1520.7 | 1499.8 | 1481.8 |
| 37.5° | 1454.9 | 1448.9 | 1445.9 | 1439.9 | 1430.9 | 1421.9 | 1421.9 | 1401.1 | 1398.1 | 1374.1 | 1350.1 |
| 40° | 1302.2 | 1308.2 | 1302.2 | 1293.2 | 1290.2 | 1284.3 | 1281.3 | 1269.3 | 1260.3 | 1239.3 | 1224.4 |
| 42.5° | 1173.4 | 1167.5 | 1167.5 | 1164.5 | 1152.6 | 1152.6 | 1146.6 | 1140.6 | 1125.6 | 1119.7 | 1101.7 |
| 45° | 1041.8 | 1047.8 | 1038.8 | 1041.8 | 1029.8 | 1029.8 | 1029.8 | 1017.8 | 1005.8 | 996.9 | 984.9 |
| 47.5° | 928.0 | 931.0 | 931.0 | 922.0 | 919.0 | 919.0 | 913.0 | 907.0 | 898.1 | 886.2 | 877.2 |
| 50° | 829.3 | 832.3 | 826.3 | 823.3 | 817.3 | 814.3 | 814.3 | 802.3 | 796.3 | 784.3 | 778.3 |
| 52.5° | 739.4 | 739.4 | 736.4 | 736.4 | 727.4 | 727.4 | 721.4 | 712.5 | 706.5 | 700.5 | 685.5 |
| 55° | 658.5 | 658.5 | 655.5 | 652.6 | 652.6 | 643.7 | 640.7 | 631.7 | 625.7 | 613.7 | 604.8 |
| 57.5° | 580.8 | 583.8 | 580.8 | 577.8 | 574.8 | 571.8 | 565.8 | 556.8 | 550.8 | 541.9 | 535.9 |
| 60° | 517.9 | 517.9 | 514.9 | 511.9 | 505.9 | 502.9 | 499.9 | 493.9 | 485.0 | 479.0 | 470.0 |
| 62.5° | 458.0 | 455.0 | 452.0 | 449.0 | 443.0 | 443.0 | 437.0 | 431.0 | 422.1 | 416.1 | 410.1 |
| 65° | 395.1 | 395.1 | 392.1 | 392.1 | 389.1 | 383.2 | 380.2 | 377.3 | 365.3 | 362.3 | 350.3 |
| 67.5° | 338.3 | 341.3 | 335.3 | 335.3 | 329.3 | 329.3 | 326.3 | 317.4 | 314.4 | 308.4 | 302.4 |
| 70° | 287.4 | 287.4 | 287.4 | 284.4 | 278.4 | 275.4 | 272.4 | 266.4 | 263.4 | 257.5 | 251.5 |
| 72.5° | 236.5 | 236.5 | 233.5 | 233.5 | 230.5 | 227.5 | 224.5 | 218.5 | 218.5 | 212.5 | 206.5 |
| 75° | 191.6 | 191.6 | 188.6 | 185.6 | 182.6 | 182.6 | 179.6 | 176.6 | 170.6 | 167.6 | 164.6 |
| 77.5° | 146.6 | 146.6 | 146.6 | 143.6 | 140.6 | 140.6 | 140.6 | 134.7 | 128.8 | 128.8 | 125.8 |
| 80° | 107.8 | 107.8 | 104.8 | 104.8 | 101.8 | 101.8 | 101.8 | 98.8 | 95.8 | 92.8 | 89.8 |
| 82.5° | 71.9 | 71.9 | 71.9 | 71.9 | 68.9 | 68.9 | 68.9 | 65.9 | 62.9 | 62.9 | 62.9 |
| 85° | 41.9 | 41.9 | 41.9 | 41.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 35.9 | 35.9 |
| 87.5° | 18.0 | 15.0 | 18.0 | 15.0 | 18.0 | 15.0 | 18.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 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: P593702

CATALOG NUMBER: HC835D010-HM82555850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 |
| 2.5° | 2131.5 | 2128.5 | 2125.5 | 2122.5 | 2122.5 | 2119.5 | 2113.5 | 2110.5 | 2107.5 | 2104.5 | 2104.5 |
| 5° | 2143.5 | 2140.5 | 2134.5 | 2128.5 | 2125.5 | 2119.5 | 2113.5 | 2107.5 | 2101.5 | 2092.5 | 2089.6 |
| 7.5° | 2152.4 | 2143.5 | 2137.5 | 2125.5 | 2122.5 | 2116.5 | 2107.5 | 2098.5 | 2086.6 | 2074.6 | 2065.6 |
| 10° | 2152.4 | 2140.5 | 2131.5 | 2116.5 | 2110.5 | 2104.5 | 2092.5 | 2077.6 | 2062.6 | 2050.6 | 2035.6 |
| 12.5° | 2146.5 | 2131.5 | 2116.5 | 2101.5 | 2092.5 | 2083.6 | 2065.6 | 2050.6 | 2032.6 | 2014.7 | 2002.7 |
| 15° | 2125.5 | 2107.5 | 2089.6 | 2071.6 | 2062.6 | 2050.6 | 2032.6 | 2011.7 | 1993.7 | 1975.7 | 1954.8 |
| 17.5° | 2086.6 | 2068.6 | 2047.6 | 2026.7 | 2014.7 | 2005.7 | 1978.7 | 1963.8 | 1936.8 | 1919.0 | 1901.0 |
| 20° | 2035.6 | 2014.7 | 1987.7 | 1966.8 | 1951.8 | 1942.8 | 1922.0 | 1895.0 | 1874.0 | 1847.1 | 1829.1 |
| 22.5° | 1969.8 | 1942.8 | 1916.0 | 1895.0 | 1880.0 | 1868.0 | 1841.1 | 1814.1 | 1796.2 | 1772.2 | 1751.2 |
| 25° | 1892.0 | 1865.0 | 1838.1 | 1808.1 | 1793.2 | 1781.2 | 1757.2 | 1733.3 | 1709.3 | 1682.4 | 1664.5 |
| 27.5° | 1799.2 | 1769.2 | 1745.2 | 1718.3 | 1703.3 | 1685.3 | 1658.5 | 1634.6 | 1610.6 | 1592.6 | 1568.7 |
| 30° | 1697.3 | 1664.5 | 1640.5 | 1613.6 | 1598.6 | 1583.6 | 1556.7 | 1532.7 | 1511.8 | 1490.8 | 1478.8 |
| 32.5° | 1574.7 | 1550.7 | 1526.7 | 1499.8 | 1487.8 | 1478.8 | 1451.9 | 1427.9 | 1404.1 | 1386.1 | 1377.1 |
| 35° | 1457.8 | 1430.9 | 1410.0 | 1386.1 | 1371.1 | 1362.1 | 1338.2 | 1317.2 | 1305.2 | 1284.3 | 1272.3 |
| 37.5° | 1335.2 | 1314.2 | 1290.2 | 1266.3 | 1257.3 | 1248.3 | 1230.3 | 1209.4 | 1191.4 | 1176.4 | 1170.4 |
| 40° | 1206.4 | 1188.4 | 1167.5 | 1152.6 | 1143.6 | 1134.6 | 1119.7 | 1104.7 | 1092.7 | 1077.7 | 1071.7 |
| 42.5° | 1083.7 | 1071.7 | 1053.8 | 1035.8 | 1026.8 | 1023.8 | 1005.8 | 993.9 | 987.9 | 981.9 | 975.9 |
| 45° | 972.9 | 954.9 | 942.9 | 931.0 | 922.0 | 916.0 | 907.0 | 898.1 | 892.2 | 886.2 | 880.2 |
| 47.5° | 865.2 | 850.2 | 838.2 | 829.3 | 820.3 | 817.3 | 811.3 | 802.3 | 796.3 | 796.3 | 796.3 |
| 50° | 766.4 | 754.4 | 742.4 | 736.4 | 733.4 | 727.4 | 721.4 | 718.4 | 715.4 | 715.4 | 715.4 |
| 52.5° | 679.5 | 667.5 | 658.5 | 652.6 | 652.6 | 646.6 | 640.7 | 637.7 | 637.7 | 637.7 | 637.7 |
| 55° | 598.8 | 589.8 | 583.8 | 577.8 | 571.8 | 568.8 | 568.8 | 568.8 | 565.8 | 565.8 | 568.8 |
| 57.5° | 526.9 | 520.9 | 511.9 | 505.9 | 502.9 | 502.9 | 499.9 | 496.9 | 499.9 | 502.9 | 505.9 |
| 60° | 461.0 | 455.0 | 452.0 | 443.0 | 443.0 | 443.0 | 440.0 | 440.0 | 440.0 | 443.0 | 446.0 |
| 62.5° | 401.1 | 398.1 | 392.1 | 389.1 | 386.2 | 386.2 | 383.2 | 383.2 | 383.2 | 383.2 | 386.2 |
| 65° | 347.3 | 341.3 | 335.3 | 335.3 | 335.3 | 332.3 | 332.3 | 326.3 | 329.3 | 329.3 | 326.3 |
| 67.5° | 296.4 | 290.4 | 287.4 | 284.4 | 281.4 | 281.4 | 278.4 | 275.4 | 272.4 | 272.4 | 272.4 |
| 70° | 248.5 | 242.5 | 242.5 | 236.5 | 236.5 | 233.5 | 230.5 | 230.5 | 227.5 | 224.5 | 221.5 |
| 72.5° | 200.5 | 197.6 | 194.6 | 191.6 | 191.6 | 191.6 | 188.6 | 185.6 | 182.6 | 179.6 | 173.6 |
| 75° | 158.6 | 158.6 | 152.6 | 149.6 | 149.6 | 146.6 | 143.6 | 140.6 | 137.7 | 134.7 | 131.7 |
| 77.5° | 122.8 | 119.8 | 113.8 | 110.8 | 110.8 | 110.8 | 107.8 | 104.8 | 101.8 | 98.8 | 95.8 |
| 80° | 89.8 | 86.9 | 83.9 | 80.9 | 80.9 | 80.9 | 77.9 | 77.9 | 74.9 | 74.9 | 74.9 |
| 82.5° | 59.9 | 59.9 | 56.9 | 56.9 | 56.9 | 56.9 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 |
| 85° | 35.9 | 35.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 |
| 87.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 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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CATALOG NUMBER: HC835D010-HM82555850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 |
| 2.5° | 2098.5 | 2098.5 | 2092.5 | 2089.6 | 2086.6 | 2089.6 | 2083.6 | 2080.6 | 2077.6 | 2077.6 | 2074.6 |
| 5° | 2080.6 | 2077.6 | 2065.6 | 2062.6 | 2059.6 | 2056.6 | 2050.6 | 2044.6 | 2038.6 | 2035.6 | 2032.6 |
| 7.5° | 2056.6 | 2047.6 | 2035.6 | 2032.6 | 2029.7 | 2020.7 | 2011.7 | 2005.7 | 1996.7 | 1993.7 | 1987.7 |
| 10° | 2023.7 | 2011.7 | 2002.7 | 1993.7 | 1987.7 | 1978.7 | 1969.8 | 1960.8 | 1948.8 | 1945.8 | 1936.8 |
| 12.5° | 1984.7 | 1969.8 | 1951.8 | 1948.8 | 1939.8 | 1927.9 | 1916.0 | 1907.0 | 1898.0 | 1892.0 | 1883.0 |
| 15° | 1936.8 | 1922.0 | 1904.0 | 1895.0 | 1886.0 | 1877.0 | 1862.1 | 1850.1 | 1841.1 | 1832.1 | 1823.1 |
| 17.5° | 1880.0 | 1862.1 | 1847.1 | 1838.1 | 1832.1 | 1817.1 | 1805.1 | 1790.2 | 1781.2 | 1772.2 | 1763.2 |
| 20° | 1811.1 | 1796.2 | 1775.2 | 1766.2 | 1763.2 | 1751.2 | 1736.3 | 1730.3 | 1718.3 | 1709.3 | 1703.3 |
| 22.5° | 1733.3 | 1718.3 | 1700.3 | 1694.3 | 1682.4 | 1676.5 | 1661.5 | 1655.5 | 1649.5 | 1640.5 | 1637.5 |
| 25° | 1646.5 | 1631.6 | 1616.6 | 1613.6 | 1604.6 | 1598.6 | 1589.6 | 1580.6 | 1580.6 | 1571.7 | 1571.7 |
| 27.5° | 1556.7 | 1541.7 | 1529.7 | 1523.7 | 1520.7 | 1514.8 | 1505.8 | 1502.8 | 1499.8 | 1496.8 | 1496.8 |
| 30° | 1460.8 | 1442.9 | 1436.9 | 1433.9 | 1430.9 | 1424.9 | 1421.9 | 1416.0 | 1419.0 | 1421.9 | 1419.0 |
| 32.5° | 1359.1 | 1353.1 | 1341.2 | 1335.2 | 1338.2 | 1335.2 | 1329.2 | 1335.2 | 1332.2 | 1338.2 | 1341.2 |
| 35° | 1260.3 | 1254.3 | 1248.3 | 1248.3 | 1242.3 | 1242.3 | 1242.3 | 1245.3 | 1251.3 | 1254.3 | 1260.3 |
| 37.5° | 1164.5 | 1155.6 | 1152.6 | 1149.6 | 1152.6 | 1152.6 | 1152.6 | 1158.6 | 1164.5 | 1170.4 | 1179.4 |
| 40° | 1062.7 | 1056.8 | 1056.8 | 1056.8 | 1056.8 | 1065.7 | 1062.7 | 1068.7 | 1074.7 | 1083.7 | 1092.7 |
| 42.5° | 966.9 | 966.9 | 969.9 | 969.9 | 969.9 | 969.9 | 975.9 | 984.9 | 993.9 | 1002.8 | 1011.8 |
| 45° | 877.2 | 877.2 | 877.2 | 883.2 | 883.2 | 886.2 | 898.1 | 904.0 | 910.0 | 919.0 | 928.0 |
| 47.5° | 793.3 | 793.3 | 796.3 | 799.3 | 802.3 | 808.3 | 814.3 | 823.3 | 832.3 | 838.2 | 847.2 |
| 50° | 715.4 | 718.4 | 724.4 | 730.4 | 730.4 | 733.4 | 742.4 | 748.4 | 754.4 | 763.4 | 766.4 |
| 52.5° | 640.7 | 646.6 | 652.6 | 655.5 | 658.5 | 664.5 | 667.5 | 676.5 | 679.5 | 688.5 | 691.5 |
| 55° | 571.8 | 574.8 | 583.8 | 586.8 | 586.8 | 592.8 | 598.8 | 604.8 | 613.7 | 613.7 | 619.7 |
| 57.5° | 508.9 | 511.9 | 517.9 | 520.9 | 517.9 | 526.9 | 529.9 | 535.9 | 538.9 | 544.9 | 547.8 |
| 60° | 446.0 | 452.0 | 455.0 | 455.0 | 458.0 | 461.0 | 467.0 | 467.0 | 473.0 | 479.0 | 479.0 |
| 62.5° | 386.2 | 389.1 | 392.1 | 395.1 | 398.1 | 395.1 | 404.1 | 404.1 | 410.1 | 413.1 | 419.1 |
| 65° | 329.3 | 332.3 | 332.3 | 335.3 | 335.3 | 338.3 | 338.3 | 341.3 | 344.3 | 350.3 | 353.3 |
| 67.5° | 272.4 | 272.4 | 272.4 | 275.4 | 272.4 | 275.4 | 275.4 | 278.4 | 278.4 | 284.4 | 287.4 |
| 70° | 221.5 | 218.5 | 215.5 | 215.5 | 215.5 | 215.5 | 212.5 | 215.5 | 215.5 | 218.5 | 218.5 |
| 72.5° | 170.6 | 167.6 | 164.6 | 161.6 | 161.6 | 158.6 | 155.6 | 158.6 | 158.6 | 161.6 | 161.6 |
| 75° | 128.8 | 122.8 | 122.8 | 122.8 | 119.8 | 119.8 | 119.8 | 122.8 | 122.8 | 122.8 | 125.8 |
| 77.5° | 95.8 | 95.8 | 92.8 | 92.8 | 92.8 | 95.8 | 95.8 | 98.8 | 98.8 | 98.8 | 98.8 |
| 80° | 71.9 | 74.9 | 74.9 | 74.9 | 74.9 | 77.9 | 77.9 | 77.9 | 77.9 | 80.9 | 80.9 |
| 82.5° | 53.9 | 53.9 | 53.9 | 53.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 |
| 85° | 32.9 | 35.9 | 35.9 | 32.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 87.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 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: P593702

CATALOG NUMBER: HC835D010-HM82555850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 | 2107.5 |
| 2.5° | 2071.6 | 2071.6 | 2071.6 | 2071.6 | 2068.6 | 2068.6 | 2068.6 | 2065.6 |
| 5° | 2026.7 | 2026.7 | 2026.7 | 2020.7 | 2023.7 | 2023.7 | 2017.7 | 2020.7 |
| 7.5° | 1981.7 | 1978.7 | 1975.7 | 1975.7 | 1972.7 | 1969.8 | 1966.8 | 1969.8 |
| 10° | 1930.9 | 1922.0 | 1922.0 | 1919.0 | 1919.0 | 1913.0 | 1913.0 | 1916.0 |
| 12.5° | 1874.0 | 1868.0 | 1868.0 | 1865.0 | 1862.1 | 1859.1 | 1856.1 | 1856.1 |
| 15° | 1817.1 | 1811.1 | 1808.1 | 1805.1 | 1802.2 | 1796.2 | 1799.2 | 1796.2 |
| 17.5° | 1760.2 | 1751.2 | 1751.2 | 1748.2 | 1745.2 | 1739.3 | 1739.3 | 1736.3 |
| 20° | 1694.3 | 1691.3 | 1685.3 | 1688.3 | 1685.3 | 1679.4 | 1676.5 | 1676.5 |
| 22.5° | 1628.6 | 1628.6 | 1625.6 | 1625.6 | 1622.6 | 1619.6 | 1616.6 | 1616.6 |
| 25° | 1565.7 | 1562.7 | 1565.7 | 1565.7 | 1556.7 | 1556.7 | 1556.7 | 1559.7 |
| 27.5° | 1493.8 | 1496.8 | 1493.8 | 1493.8 | 1493.8 | 1493.8 | 1496.8 | 1493.8 |
| 30° | 1421.9 | 1421.9 | 1421.9 | 1424.9 | 1430.9 | 1427.9 | 1427.9 | 1424.9 |
| 32.5° | 1344.2 | 1347.2 | 1347.2 | 1350.1 | 1353.1 | 1359.1 | 1359.1 | 1362.1 |
| 35° | 1266.3 | 1272.3 | 1275.3 | 1272.3 | 1281.3 | 1281.3 | 1287.3 | 1287.3 |
| 37.5° | 1185.4 | 1188.4 | 1194.4 | 1197.4 | 1203.4 | 1206.4 | 1209.4 | 1209.4 |
| 40° | 1098.7 | 1110.7 | 1113.7 | 1116.7 | 1125.6 | 1125.6 | 1128.6 | 1134.6 |
| 42.5° | 1017.8 | 1029.8 | 1032.8 | 1035.8 | 1041.8 | 1050.8 | 1047.8 | 1053.8 |
| 45° | 940.0 | 948.9 | 951.9 | 954.9 | 963.9 | 966.9 | 966.9 | 975.9 |
| 47.5° | 856.2 | 862.2 | 865.2 | 871.2 | 877.2 | 883.2 | 889.2 | 886.2 |
| 50° | 772.4 | 781.3 | 787.3 | 790.3 | 799.3 | 802.3 | 805.3 | 808.3 |
| 52.5° | 697.5 | 703.5 | 706.5 | 709.5 | 718.4 | 721.4 | 724.4 | 730.4 |
| 55° | 625.7 | 628.7 | 634.7 | 631.7 | 640.7 | 643.7 | 646.6 | 652.6 |
| 57.5° | 553.8 | 556.8 | 559.8 | 559.8 | 565.8 | 571.8 | 574.8 | 577.8 |
| 60° | 485.0 | 490.9 | 493.9 | 493.9 | 493.9 | 499.9 | 499.9 | 499.9 |
| 62.5° | 422.1 | 422.1 | 425.1 | 425.1 | 431.0 | 431.0 | 431.0 | 431.0 |
| 65° | 356.3 | 359.3 | 362.3 | 362.3 | 368.3 | 365.3 | 371.3 | 368.3 |
| 67.5° | 287.4 | 287.4 | 293.4 | 293.4 | 290.4 | 293.4 | 293.4 | 293.4 |
| 70° | 218.5 | 218.5 | 221.5 | 221.5 | 221.5 | 221.5 | 221.5 | 221.5 |
| 72.5° | 161.6 | 161.6 | 161.6 | 164.6 | 161.6 | 161.6 | 164.6 | 161.6 |
| 75° | 125.8 | 125.8 | 125.8 | 125.8 | 125.8 | 125.8 | 125.8 | 125.8 |
| 77.5° | 98.8 | 98.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 |
| 80° | 80.9 | 80.9 | 80.9 | 80.9 | 83.9 | 80.9 | 80.9 | 80.9 |
| 82.5° | 59.9 | 56.9 | 59.9 | 56.9 | 59.9 | 59.9 | 59.9 | 59.9 |
| 85° | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 |
| 87.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 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)