

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: P584810

Luminaire Tested: **HC850D010-HM82555830-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584810
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: HC850D010-HM82555830-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4220.6 lumens
Efficiency: N/A
Efficacy: 87.9 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

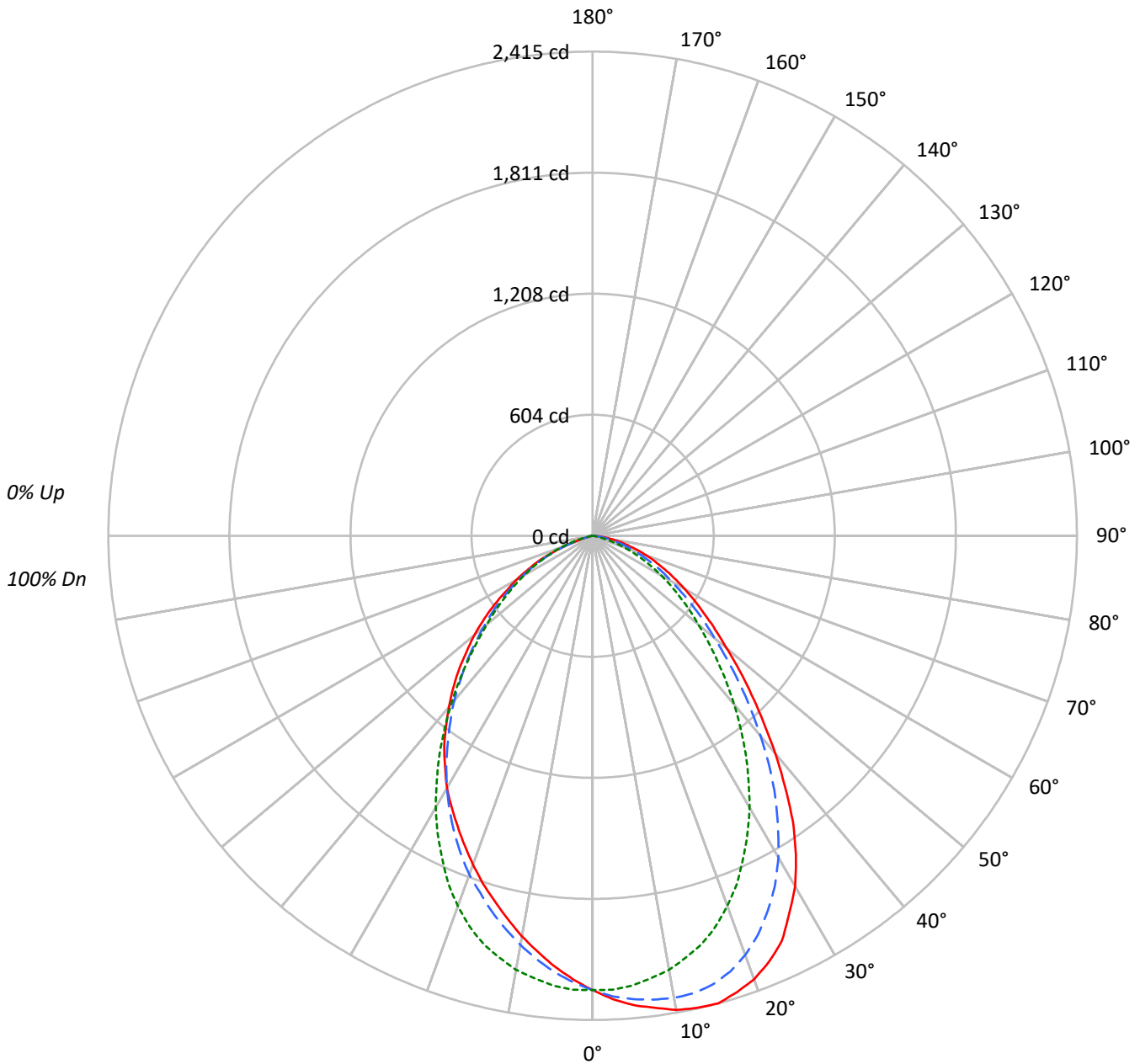
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584810

CATALOG NUMBER: HC850D010-HM82555830-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P584810

CATALOG NUMBER: HC850D010-HM82555830-81WWBB

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 | 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° | 69872 | 69872 | 69872 |
| 5° | 72758 | 69718 | 66783 |
| 10° | 75193 | 68827 | 63526 |
| 15° | 77094 | 67255 | 60225 |
| 20° | 77244 | 64462 | 57240 |
| 25° | 75942 | 60386 | 54275 |
| 30° | 71876 | 55717 | 51737 |
| 35° | 65535 | 50104 | 48580 |
| 40° | 56992 | 44171 | 44855 |
| 45° | 48890 | 38254 | 41058 |
| 50° | 41756 | 32986 | 36886 |
| 55° | 36601 | 28408 | 32047 |
| 60° | 32588 | 24231 | 26951 |
| 65° | 28916 | 19773 | 21503 |
| 70° | 25650 | 14660 | 12217 |
| 75° | 21398 | 7661 | 3634 |
| 80° | 16835 | 2415 | 604 |
| 85° | 11994 | 1203 | 0 |



TEST NUMBER: P584810

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.5 | 5.1 |
| 10°-20° | 598.4 | 14.2 |
| 20°-30° | 847.0 | 20.1 |
| 30°-40° | 886.1 | 21.0 |
| 40°-50° | 739.1 | 17.5 |
| 50°-60° | 524.1 | 12.4 |
| 60°-70° | 301.9 | 7.2 |
| 70°-80° | 97.1 | 2.3 |
| 80°-90° | 13.4 | 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° | 1658.9 | 39.3 |
| 0°-40° | 2545.0 | 60.3 |
| 0°-60° | 3808.2 | 90.2 |
| 0°-90° | 4220.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4220.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2266 | 2266 | 2266 | 2266 | 2266 | |
| 5° | 2350 | 2320 | 2252 | 2185 | 2158 | 226 |
| 15° | 2415 | 2317 | 2107 | 1941 | 1886 | 679 |
| 25° | 2232 | 2066 | 1775 | 1632 | 1595 | 1018 |
| 35° | 1741 | 1588 | 1331 | 1260 | 1290 | 1079 |
| 45° | 1121 | 1030 | 877 | 887 | 942 | 869 |
| 55° | 681 | 610 | 528 | 556 | 596 | 615 |
| 65° | 396 | 332 | 271 | 271 | 295 | 396 |
| 75° | 180 | 132 | 64 | 30 | 30 | 195 |
| 85° | 34 | 17 | 3 | 0 | 0 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P584810

CATALOG NUMBER: HC850D010-HM82555830-81WWBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2313.3 | 2309.9 | 2306.6 | 2309.9 | 2306.6 | 2309.9 | 2306.6 | 2306.6 | 2303.2 | 2299.8 | 2299.8 |
| 5° | 2350.5 | 2347.1 | 2347.1 | 2347.1 | 2343.7 | 2340.3 | 2340.3 | 2336.9 | 2330.2 | 2326.8 | 2320.1 |
| 7.5° | 2374.2 | 2377.6 | 2377.6 | 2377.6 | 2370.8 | 2370.8 | 2364.1 | 2357.3 | 2350.5 | 2343.7 | 2333.6 |
| 10° | 2401.4 | 2401.4 | 2398.0 | 2394.6 | 2387.8 | 2384.4 | 2381.0 | 2374.2 | 2364.1 | 2350.5 | 2340.3 |
| 12.5° | 2411.5 | 2411.5 | 2408.1 | 2401.4 | 2398.0 | 2394.6 | 2391.2 | 2381.0 | 2367.5 | 2350.5 | 2336.9 |
| 15° | 2414.9 | 2408.1 | 2404.7 | 2401.4 | 2394.6 | 2384.4 | 2384.4 | 2370.8 | 2353.9 | 2333.6 | 2316.7 |
| 17.5° | 2387.8 | 2391.2 | 2384.4 | 2377.6 | 2367.5 | 2360.7 | 2350.5 | 2340.3 | 2320.1 | 2296.4 | 2279.4 |
| 20° | 2353.9 | 2350.5 | 2347.1 | 2336.9 | 2323.4 | 2320.1 | 2309.9 | 2293.0 | 2276.0 | 2248.9 | 2225.2 |
| 22.5° | 2299.8 | 2296.4 | 2289.6 | 2282.8 | 2269.3 | 2262.5 | 2252.3 | 2232.0 | 2208.2 | 2181.2 | 2154.1 |
| 25° | 2232.0 | 2225.2 | 2215.0 | 2201.5 | 2191.4 | 2184.6 | 2171.1 | 2150.7 | 2123.6 | 2093.1 | 2066.1 |
| 27.5° | 2123.6 | 2133.8 | 2127.0 | 2106.7 | 2096.5 | 2082.9 | 2079.5 | 2052.5 | 2028.8 | 1998.3 | 1967.8 |
| 30° | 2018.6 | 2018.6 | 2008.5 | 1998.3 | 1981.3 | 1971.2 | 1957.6 | 1937.4 | 1913.7 | 1876.4 | 1852.6 |
| 32.5° | 1886.5 | 1883.1 | 1869.6 | 1866.2 | 1852.6 | 1832.3 | 1828.9 | 1801.9 | 1778.2 | 1751.0 | 1720.5 |
| 35° | 1740.9 | 1734.1 | 1720.5 | 1710.4 | 1703.6 | 1693.5 | 1683.4 | 1659.6 | 1635.9 | 1608.8 | 1588.4 |
| 37.5° | 1574.9 | 1574.9 | 1571.5 | 1554.7 | 1547.9 | 1541.1 | 1530.9 | 1507.2 | 1493.6 | 1466.5 | 1446.2 |
| 40° | 1415.8 | 1412.4 | 1402.2 | 1398.8 | 1392.0 | 1381.9 | 1375.1 | 1361.5 | 1341.2 | 1320.9 | 1300.6 |
| 42.5° | 1259.9 | 1263.3 | 1249.8 | 1253.2 | 1239.6 | 1232.8 | 1229.4 | 1209.1 | 1198.9 | 1178.7 | 1161.8 |
| 45° | 1121.1 | 1117.7 | 1110.9 | 1107.5 | 1100.7 | 1094.0 | 1087.2 | 1077.0 | 1060.2 | 1039.8 | 1029.7 |
| 47.5° | 992.4 | 982.2 | 982.2 | 978.8 | 975.4 | 961.9 | 958.5 | 948.3 | 938.2 | 917.9 | 904.3 |
| 50° | 870.4 | 870.4 | 870.4 | 867.0 | 856.9 | 853.5 | 846.7 | 836.5 | 826.4 | 812.9 | 792.6 |
| 52.5° | 772.2 | 772.2 | 772.2 | 768.9 | 755.3 | 751.9 | 748.5 | 735.0 | 721.4 | 711.2 | 697.7 |
| 55° | 680.8 | 684.2 | 680.8 | 674.0 | 663.9 | 663.9 | 653.7 | 646.9 | 633.4 | 623.2 | 609.6 |
| 57.5° | 602.9 | 602.9 | 596.1 | 592.7 | 585.9 | 582.5 | 575.7 | 569.0 | 552.1 | 541.9 | 525.0 |
| 60° | 528.4 | 525.0 | 525.0 | 518.2 | 511.4 | 504.7 | 501.3 | 491.1 | 484.3 | 467.4 | 453.8 |
| 62.5° | 460.6 | 460.6 | 453.8 | 453.8 | 440.2 | 440.2 | 437.0 | 426.8 | 416.6 | 399.7 | 392.9 |
| 65° | 396.3 | 396.3 | 392.9 | 389.5 | 379.3 | 376.0 | 372.6 | 362.4 | 352.2 | 342.0 | 331.9 |
| 67.5° | 338.7 | 338.7 | 331.9 | 328.5 | 321.7 | 318.3 | 311.7 | 304.9 | 294.7 | 284.5 | 274.4 |
| 70° | 284.5 | 281.1 | 277.8 | 274.4 | 267.6 | 264.2 | 257.4 | 250.6 | 240.5 | 233.7 | 223.5 |
| 72.5° | 230.3 | 230.3 | 226.9 | 220.1 | 216.7 | 213.3 | 210.0 | 203.2 | 193.0 | 182.9 | 176.2 |
| 75° | 179.6 | 179.6 | 179.6 | 172.8 | 166.0 | 162.6 | 162.6 | 155.8 | 149.0 | 138.9 | 132.1 |
| 77.5° | 138.9 | 135.5 | 132.1 | 132.1 | 125.3 | 121.9 | 118.5 | 115.1 | 105.0 | 101.6 | 94.8 |
| 80° | 94.8 | 98.2 | 94.8 | 91.4 | 88.0 | 84.6 | 84.6 | 77.9 | 74.5 | 67.7 | 61.0 |
| 82.5° | 64.3 | 61.0 | 61.0 | 57.6 | 57.6 | 54.2 | 54.2 | 47.5 | 44.1 | 40.7 | 37.3 |
| 85° | 33.9 | 33.9 | 30.5 | 30.5 | 30.5 | 27.1 | 27.1 | 23.7 | 23.7 | 20.3 | 17.0 |
| 87.5° | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 6.8 | 6.8 | 6.8 |
| 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: P584810

CATALOG NUMBER: HC850D010-HM82555830-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2296.4 | 2289.6 | 2286.2 | 2286.2 | 2282.8 | 2279.4 | 2276.0 | 2272.7 | 2265.9 | 2265.9 | 2259.1 |
| 5° | 2313.3 | 2306.6 | 2303.2 | 2293.0 | 2286.2 | 2286.2 | 2272.7 | 2269.3 | 2259.1 | 2252.3 | 2245.5 |
| 7.5° | 2326.8 | 2313.3 | 2303.2 | 2293.0 | 2286.2 | 2279.4 | 2265.9 | 2252.3 | 2238.8 | 2225.2 | 2218.4 |
| 10° | 2326.8 | 2313.3 | 2296.4 | 2279.4 | 2272.7 | 2265.9 | 2248.9 | 2228.6 | 2211.6 | 2198.1 | 2181.2 |
| 12.5° | 2320.1 | 2299.8 | 2279.4 | 2265.9 | 2252.3 | 2242.1 | 2221.8 | 2201.5 | 2181.2 | 2154.1 | 2140.6 |
| 15° | 2299.8 | 2272.7 | 2252.3 | 2228.6 | 2218.4 | 2201.5 | 2184.6 | 2154.1 | 2130.4 | 2106.7 | 2089.7 |
| 17.5° | 2259.1 | 2225.2 | 2201.5 | 2177.8 | 2160.9 | 2150.7 | 2123.6 | 2096.5 | 2069.5 | 2042.4 | 2022.0 |
| 20° | 2198.1 | 2167.7 | 2140.6 | 2110.0 | 2096.5 | 2082.9 | 2049.1 | 2022.0 | 1994.9 | 1964.4 | 1944.2 |
| 22.5° | 2123.6 | 2093.1 | 2055.9 | 2032.2 | 2011.8 | 1994.9 | 1964.4 | 1934.0 | 1906.9 | 1879.8 | 1852.6 |
| 25° | 2032.2 | 2001.7 | 1967.8 | 1930.6 | 1917.0 | 1900.1 | 1866.2 | 1835.7 | 1805.3 | 1774.8 | 1751.0 |
| 27.5° | 1934.0 | 1893.3 | 1866.2 | 1825.5 | 1812.1 | 1795.1 | 1757.8 | 1723.9 | 1696.8 | 1673.2 | 1646.1 |
| 30° | 1815.5 | 1784.9 | 1747.7 | 1710.4 | 1696.8 | 1680.0 | 1649.5 | 1618.9 | 1591.8 | 1564.8 | 1537.7 |
| 32.5° | 1686.8 | 1656.2 | 1618.9 | 1591.8 | 1571.5 | 1558.0 | 1527.5 | 1500.4 | 1473.3 | 1446.2 | 1422.6 |
| 35° | 1551.3 | 1517.4 | 1490.2 | 1463.1 | 1446.2 | 1429.3 | 1398.8 | 1375.1 | 1354.8 | 1331.0 | 1307.4 |
| 37.5° | 1412.4 | 1388.7 | 1361.5 | 1331.0 | 1314.2 | 1300.6 | 1276.9 | 1249.8 | 1232.8 | 1212.5 | 1195.5 |
| 40° | 1276.9 | 1249.8 | 1226.0 | 1198.9 | 1185.5 | 1175.3 | 1151.6 | 1131.2 | 1114.3 | 1097.3 | 1087.2 |
| 42.5° | 1138.0 | 1114.3 | 1090.6 | 1073.6 | 1063.6 | 1053.4 | 1036.4 | 1012.7 | 1002.5 | 985.6 | 975.4 |
| 45° | 1009.3 | 989.0 | 972.0 | 948.3 | 941.5 | 934.8 | 914.5 | 897.6 | 887.4 | 877.2 | 870.4 |
| 47.5° | 887.4 | 873.8 | 853.5 | 839.9 | 829.8 | 823.0 | 809.5 | 796.0 | 785.8 | 779.0 | 772.2 |
| 50° | 782.4 | 765.5 | 751.9 | 738.3 | 731.6 | 721.4 | 707.8 | 701.0 | 694.3 | 687.6 | 687.6 |
| 52.5° | 684.2 | 667.3 | 653.7 | 643.5 | 636.8 | 630.0 | 619.8 | 616.4 | 609.6 | 609.6 | 606.2 |
| 55° | 592.7 | 582.5 | 569.0 | 555.5 | 552.1 | 548.7 | 541.9 | 535.2 | 531.8 | 528.4 | 531.8 |
| 57.5° | 514.8 | 504.7 | 491.1 | 480.9 | 477.5 | 474.1 | 470.8 | 464.0 | 460.6 | 460.6 | 460.6 |
| 60° | 443.6 | 433.6 | 423.4 | 413.2 | 413.2 | 406.5 | 403.1 | 399.7 | 396.3 | 392.9 | 392.9 |
| 62.5° | 379.3 | 369.2 | 359.0 | 352.2 | 348.8 | 345.4 | 338.7 | 335.3 | 331.9 | 331.9 | 328.5 |
| 65° | 321.7 | 308.3 | 304.9 | 294.7 | 291.3 | 287.9 | 284.5 | 277.8 | 274.4 | 271.0 | 267.6 |
| 67.5° | 264.2 | 257.4 | 247.2 | 240.5 | 237.1 | 233.7 | 230.3 | 223.5 | 220.1 | 216.7 | 210.0 |
| 70° | 213.3 | 206.6 | 199.8 | 193.0 | 189.6 | 186.3 | 179.6 | 172.8 | 169.4 | 162.6 | 152.4 |
| 72.5° | 166.0 | 159.2 | 152.4 | 145.7 | 142.3 | 138.9 | 132.1 | 125.3 | 118.5 | 111.8 | 105.0 |
| 75° | 125.3 | 118.5 | 108.4 | 101.6 | 98.2 | 98.2 | 88.0 | 81.2 | 74.5 | 64.3 | 57.6 |
| 77.5° | 88.0 | 77.9 | 74.5 | 67.7 | 64.3 | 57.6 | 50.9 | 44.1 | 37.3 | 33.9 | 27.1 |
| 80° | 57.6 | 50.9 | 44.1 | 40.7 | 37.3 | 33.9 | 30.5 | 23.7 | 17.0 | 13.6 | 10.2 |
| 82.5° | 33.9 | 30.5 | 27.1 | 23.7 | 20.3 | 17.0 | 13.6 | 13.6 | 10.2 | 6.8 | 3.4 |
| 85° | 17.0 | 13.6 | 10.2 | 10.2 | 6.8 | 6.8 | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 |
| 87.5° | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 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: P584810

CATALOG NUMBER: HC850D010-HM82555830-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2255.7 | 2252.3 | 2248.9 | 2245.5 | 2245.5 | 2238.8 | 2238.8 | 2235.4 | 2228.6 | 2225.2 | 2225.2 |
| 5° | 2235.4 | 2225.2 | 2218.4 | 2215.0 | 2211.6 | 2201.5 | 2198.1 | 2191.4 | 2184.6 | 2177.8 | 2174.5 |
| 7.5° | 2204.9 | 2188.0 | 2181.2 | 2177.8 | 2167.7 | 2157.5 | 2150.7 | 2140.6 | 2130.4 | 2120.2 | 2116.8 |
| 10° | 2167.7 | 2150.7 | 2133.8 | 2127.0 | 2116.8 | 2110.0 | 2096.5 | 2082.9 | 2072.8 | 2062.7 | 2052.5 |
| 12.5° | 2120.2 | 2099.9 | 2082.9 | 2076.1 | 2066.1 | 2052.5 | 2032.2 | 2025.4 | 2008.5 | 2001.7 | 1988.1 |
| 15° | 2066.1 | 2042.4 | 2025.4 | 2015.2 | 2005.1 | 1984.7 | 1971.2 | 1957.6 | 1940.8 | 1934.0 | 1920.4 |
| 17.5° | 1998.3 | 1971.2 | 1954.2 | 1944.2 | 1937.4 | 1920.4 | 1900.1 | 1883.1 | 1866.2 | 1859.4 | 1849.2 |
| 20° | 1917.0 | 1900.1 | 1876.4 | 1866.2 | 1859.4 | 1839.1 | 1818.8 | 1812.1 | 1798.5 | 1784.9 | 1774.8 |
| 22.5° | 1825.5 | 1808.7 | 1784.9 | 1774.8 | 1771.4 | 1754.4 | 1737.5 | 1727.3 | 1717.1 | 1707.0 | 1696.8 |
| 25° | 1730.7 | 1710.4 | 1690.1 | 1683.4 | 1676.6 | 1663.0 | 1649.5 | 1642.7 | 1632.5 | 1625.7 | 1618.9 |
| 27.5° | 1629.1 | 1608.8 | 1591.8 | 1581.7 | 1574.9 | 1564.8 | 1558.0 | 1551.3 | 1544.5 | 1537.7 | 1534.3 |
| 30° | 1520.8 | 1500.4 | 1486.9 | 1480.1 | 1473.3 | 1469.9 | 1459.7 | 1456.3 | 1453.0 | 1446.2 | 1449.6 |
| 32.5° | 1412.4 | 1395.4 | 1381.9 | 1371.7 | 1371.7 | 1364.9 | 1361.5 | 1361.5 | 1358.1 | 1358.1 | 1358.1 |
| 35° | 1293.8 | 1283.7 | 1273.5 | 1270.1 | 1266.7 | 1263.3 | 1259.9 | 1263.3 | 1259.9 | 1263.3 | 1266.7 |
| 37.5° | 1185.5 | 1175.3 | 1168.5 | 1165.1 | 1161.8 | 1165.1 | 1161.8 | 1161.8 | 1165.1 | 1171.9 | 1175.3 |
| 40° | 1073.6 | 1066.8 | 1060.2 | 1063.6 | 1060.2 | 1060.2 | 1060.2 | 1070.2 | 1073.6 | 1077.0 | 1080.4 |
| 42.5° | 968.6 | 961.9 | 958.5 | 958.5 | 961.9 | 958.5 | 965.2 | 968.6 | 975.4 | 985.6 | 992.4 |
| 45° | 867.0 | 863.7 | 863.7 | 867.0 | 863.7 | 870.4 | 870.4 | 877.2 | 887.4 | 894.2 | 900.9 |
| 47.5° | 772.2 | 772.2 | 772.2 | 775.6 | 775.6 | 779.0 | 785.8 | 789.2 | 796.0 | 802.8 | 809.5 |
| 50° | 684.2 | 687.6 | 690.9 | 690.9 | 690.9 | 697.7 | 704.4 | 707.8 | 711.2 | 714.6 | 724.8 |
| 52.5° | 606.2 | 609.6 | 609.6 | 613.0 | 616.4 | 619.8 | 623.2 | 630.0 | 633.4 | 640.1 | 643.5 |
| 55° | 531.8 | 531.8 | 538.6 | 541.9 | 541.9 | 541.9 | 548.7 | 548.7 | 555.5 | 558.9 | 565.6 |
| 57.5° | 460.6 | 464.0 | 464.0 | 467.4 | 467.4 | 470.8 | 474.1 | 477.5 | 480.9 | 484.3 | 487.7 |
| 60° | 392.9 | 392.9 | 392.9 | 396.3 | 399.7 | 403.1 | 399.7 | 406.5 | 406.5 | 413.2 | 416.6 |
| 62.5° | 328.5 | 331.9 | 331.9 | 331.9 | 331.9 | 331.9 | 331.9 | 335.3 | 338.7 | 342.0 | 345.4 |
| 65° | 267.6 | 267.6 | 267.6 | 264.2 | 267.6 | 264.2 | 267.6 | 271.0 | 271.0 | 274.4 | 277.8 |
| 67.5° | 206.6 | 206.6 | 199.8 | 199.8 | 203.2 | 203.2 | 203.2 | 203.2 | 199.8 | 206.6 | 206.6 |
| 70° | 149.0 | 145.7 | 142.3 | 138.9 | 138.9 | 135.5 | 135.5 | 132.1 | 132.1 | 132.1 | 132.1 |
| 72.5° | 98.2 | 91.4 | 84.6 | 81.2 | 77.9 | 77.9 | 71.1 | 67.7 | 71.1 | 71.1 | 71.1 |
| 75° | 50.9 | 44.1 | 40.7 | 37.3 | 33.9 | 33.9 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 |
| 77.5° | 20.3 | 17.0 | 13.6 | 13.6 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 80° | 6.8 | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 85° | 3.4 | 0.0 | 0.0 | 3.4 | 0.0 | 3.4 | 3.4 | 3.4 | 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: P584810

CATALOG NUMBER: HC850D010-HM82555830-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2221.8 | 2221.8 | 2218.4 | 2221.8 | 2215.0 | 2218.4 | 2215.0 | 2215.0 |
| 5° | 2171.1 | 2164.3 | 2164.3 | 2164.3 | 2160.9 | 2160.9 | 2157.5 | 2157.5 |
| 7.5° | 2110.0 | 2106.7 | 2103.3 | 2099.9 | 2096.5 | 2093.1 | 2093.1 | 2093.1 |
| 10° | 2049.1 | 2042.4 | 2042.4 | 2039.0 | 2032.2 | 2028.8 | 2028.8 | 2028.8 |
| 12.5° | 1977.9 | 1974.6 | 1971.2 | 1971.2 | 1957.6 | 1961.0 | 1957.6 | 1957.6 |
| 15° | 1910.3 | 1906.9 | 1906.9 | 1896.7 | 1889.9 | 1889.9 | 1889.9 | 1886.5 |
| 17.5° | 1839.1 | 1835.7 | 1832.3 | 1825.5 | 1818.8 | 1818.8 | 1815.5 | 1818.8 |
| 20° | 1764.6 | 1761.2 | 1754.4 | 1754.4 | 1751.0 | 1747.7 | 1740.9 | 1744.3 |
| 22.5° | 1690.1 | 1683.4 | 1680.0 | 1680.0 | 1676.6 | 1676.6 | 1669.8 | 1669.8 |
| 25° | 1612.2 | 1608.8 | 1605.4 | 1608.8 | 1602.0 | 1602.0 | 1595.2 | 1595.2 |
| 27.5° | 1530.9 | 1527.5 | 1527.5 | 1527.5 | 1524.1 | 1527.5 | 1524.1 | 1524.1 |
| 30° | 1449.6 | 1449.6 | 1446.2 | 1446.2 | 1449.6 | 1446.2 | 1449.6 | 1453.0 |
| 32.5° | 1361.5 | 1361.5 | 1364.9 | 1364.9 | 1368.3 | 1368.3 | 1368.3 | 1368.3 |
| 35° | 1270.1 | 1276.9 | 1276.9 | 1280.3 | 1283.7 | 1287.1 | 1287.1 | 1290.5 |
| 37.5° | 1185.5 | 1188.9 | 1192.1 | 1195.5 | 1202.3 | 1202.3 | 1202.3 | 1202.3 |
| 40° | 1094.0 | 1097.3 | 1104.1 | 1100.7 | 1114.3 | 1117.7 | 1114.3 | 1114.3 |
| 42.5° | 999.1 | 1005.9 | 1009.3 | 1016.1 | 1019.5 | 1026.3 | 1029.7 | 1029.7 |
| 45° | 911.1 | 914.5 | 921.3 | 928.1 | 931.5 | 941.5 | 941.5 | 941.5 |
| 47.5° | 819.6 | 826.4 | 829.8 | 836.5 | 839.9 | 850.1 | 853.5 | 850.1 |
| 50° | 731.6 | 738.3 | 745.1 | 745.1 | 755.3 | 758.7 | 765.5 | 768.9 |
| 52.5° | 646.9 | 650.3 | 657.1 | 660.5 | 667.3 | 674.0 | 677.4 | 680.8 |
| 55° | 565.6 | 569.0 | 575.7 | 575.7 | 585.9 | 589.3 | 596.1 | 596.1 |
| 57.5° | 491.1 | 494.5 | 501.3 | 497.9 | 504.7 | 511.4 | 511.4 | 508.0 |
| 60° | 420.0 | 420.0 | 420.0 | 426.8 | 430.2 | 433.6 | 437.0 | 437.0 |
| 62.5° | 345.4 | 352.2 | 355.6 | 355.6 | 359.0 | 362.4 | 362.4 | 359.0 |
| 65° | 277.8 | 284.5 | 287.9 | 287.9 | 291.3 | 291.3 | 291.3 | 294.7 |
| 67.5° | 210.0 | 210.0 | 210.0 | 213.3 | 210.0 | 210.0 | 210.0 | 210.0 |
| 70° | 132.1 | 132.1 | 132.1 | 132.1 | 128.7 | 132.1 | 132.1 | 135.5 |
| 72.5° | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 |
| 75° | 30.5 | 30.5 | 30.5 | 33.9 | 30.5 | 30.5 | 30.5 | 30.5 |
| 77.5° | 13.6 | 10.2 | 13.6 | 13.6 | 10.2 | 10.2 | 10.2 | 10.2 |
| 80° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 85° | 0.0 | 3.4 | 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)