

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: P585065

Luminaire Tested: **HC860D010-HM86080827-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585065
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: HC860D010-HM86080827-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4344.3 lumens
Efficiency: N/A
Efficacy: 77.6 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

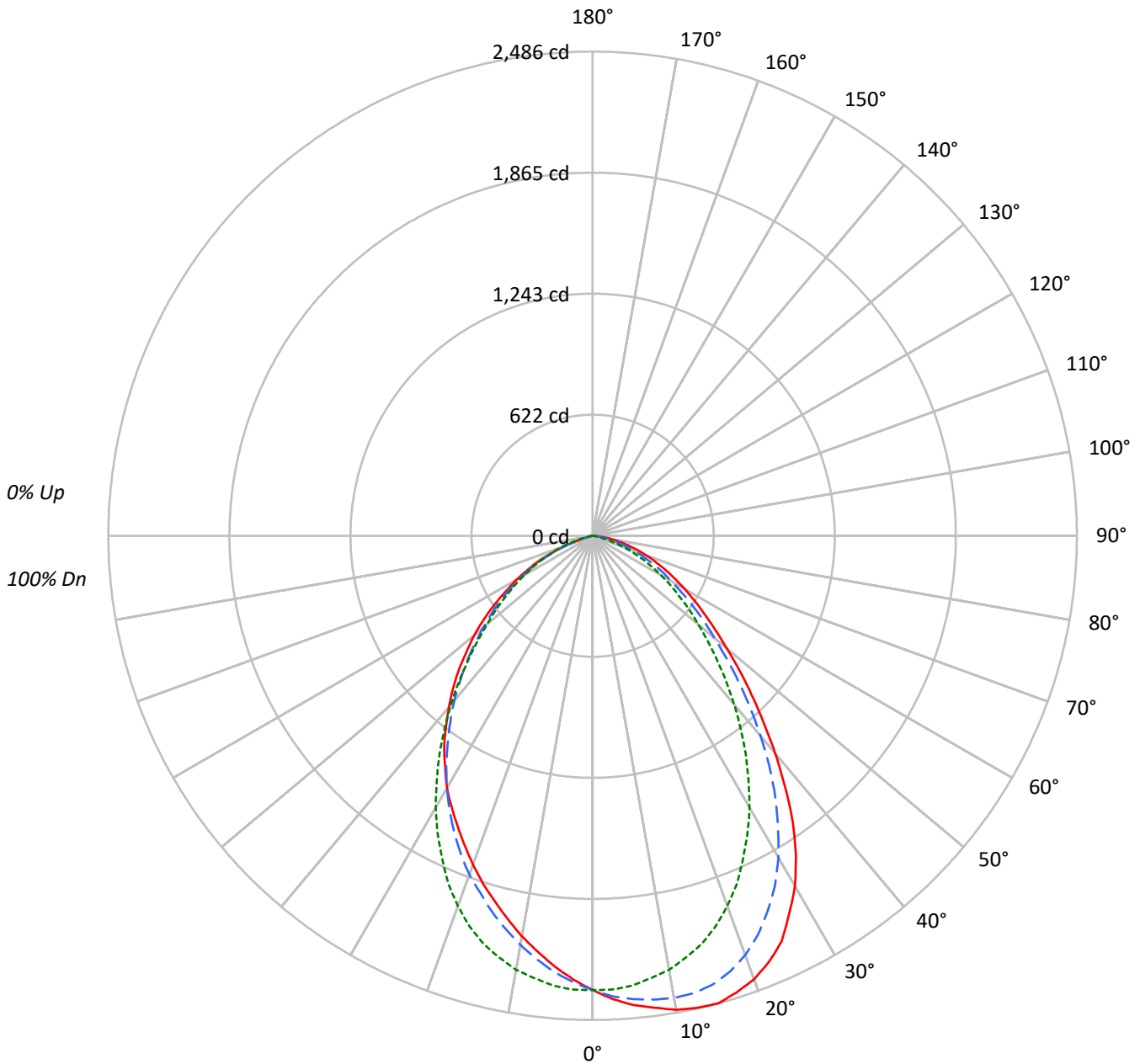
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585065

CATALOG NUMBER: HC860D010-HM86080827-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P585065

CATALOG NUMBER: HC860D010-HM86080827-81WWBB

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° | 71920 | 71920 | 71920 |
| 5° | 74890 | 71761 | 68743 |
| 10° | 77394 | 70843 | 65386 |
| 15° | 79354 | 69224 | 61993 |
| 20° | 79508 | 66353 | 58917 |
| 25° | 78164 | 62155 | 55868 |
| 30° | 73980 | 57348 | 53253 |
| 35° | 67455 | 51576 | 50003 |
| 40° | 58658 | 45467 | 46167 |
| 45° | 50325 | 39375 | 42266 |
| 50° | 42984 | 33950 | 37961 |
| 55° | 37671 | 29235 | 32988 |
| 60° | 33538 | 24940 | 27734 |
| 65° | 29755 | 20350 | 22130 |
| 70° | 26399 | 15093 | 12568 |
| 75° | 22018 | 7887 | 3741 |
| 80° | 17332 | 2486 | 622 |
| 85° | 12312 | 1238 | 0 |



TEST NUMBER: P585065

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.8 | 5.1 |
| 10°-20° | 616.0 | 14.2 |
| 20°-30° | 871.8 | 20.1 |
| 30°-40° | 912.1 | 21.0 |
| 40°-50° | 760.7 | 17.5 |
| 50°-60° | 539.5 | 12.4 |
| 60°-70° | 310.7 | 7.2 |
| 70°-80° | 100.0 | 2.3 |
| 80°-90° | 13.8 | 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° | 1707.5 | 39.3 |
| 0°-40° | 2619.6 | 60.3 |
| 0°-60° | 3919.8 | 90.2 |
| 0°-90° | 4344.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4344.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2332 | 2332 | 2332 | 2332 | 2332 | |
| 5° | 2419 | 2388 | 2318 | 2249 | 2221 | 232 |
| 15° | 2486 | 2384 | 2168 | 1998 | 1942 | 699 |
| 25° | 2297 | 2126 | 1827 | 1680 | 1642 | 1048 |
| 35° | 1792 | 1635 | 1370 | 1297 | 1328 | 1111 |
| 45° | 1154 | 1060 | 903 | 913 | 969 | 894 |
| 55° | 701 | 628 | 544 | 572 | 614 | 633 |
| 65° | 408 | 342 | 279 | 279 | 303 | 408 |
| 75° | 185 | 136 | 66 | 31 | 31 | 200 |
| 85° | 35 | 17 | 4 | 0 | 0 | 44 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 |
| 2.5° | 2381.1 | 2377.6 | 2374.0 | 2377.6 | 2374.0 | 2377.6 | 2374.0 | 2374.0 | 2370.6 | 2367.1 | 2367.1 |
| 5° | 2419.4 | 2415.9 | 2415.9 | 2415.9 | 2412.5 | 2409.0 | 2409.0 | 2405.4 | 2398.5 | 2395.0 | 2388.0 |
| 7.5° | 2443.8 | 2447.3 | 2447.3 | 2447.3 | 2440.4 | 2440.4 | 2433.3 | 2426.4 | 2419.4 | 2412.5 | 2402.0 |
| 10° | 2471.7 | 2471.7 | 2468.3 | 2464.7 | 2457.8 | 2454.3 | 2450.7 | 2443.8 | 2433.3 | 2419.4 | 2409.0 |
| 12.5° | 2482.1 | 2482.1 | 2478.7 | 2471.7 | 2468.3 | 2464.7 | 2461.2 | 2450.7 | 2436.9 | 2419.4 | 2405.4 |
| 15° | 2485.7 | 2478.7 | 2475.2 | 2471.7 | 2464.7 | 2454.3 | 2454.3 | 2440.4 | 2422.9 | 2402.0 | 2384.5 |
| 17.5° | 2457.8 | 2461.2 | 2454.3 | 2447.3 | 2436.9 | 2429.9 | 2419.4 | 2409.0 | 2388.0 | 2363.7 | 2346.2 |
| 20° | 2422.9 | 2419.4 | 2415.9 | 2405.4 | 2391.6 | 2388.0 | 2377.6 | 2360.2 | 2342.7 | 2314.9 | 2290.4 |
| 22.5° | 2367.1 | 2363.7 | 2356.6 | 2349.7 | 2335.8 | 2328.8 | 2318.3 | 2297.3 | 2273.0 | 2245.1 | 2217.2 |
| 25° | 2297.3 | 2290.4 | 2279.9 | 2266.0 | 2255.6 | 2248.6 | 2234.6 | 2213.7 | 2185.8 | 2154.4 | 2126.5 |
| 27.5° | 2185.8 | 2196.3 | 2189.4 | 2168.4 | 2157.9 | 2144.1 | 2140.5 | 2112.7 | 2088.2 | 2056.9 | 2025.5 |
| 30° | 2077.7 | 2077.7 | 2067.4 | 2056.9 | 2039.4 | 2028.9 | 2015.0 | 1994.1 | 1969.7 | 1931.4 | 1906.9 |
| 32.5° | 1941.9 | 1938.3 | 1924.3 | 1920.9 | 1906.9 | 1886.0 | 1882.6 | 1854.7 | 1830.2 | 1802.4 | 1770.9 |
| 35° | 1791.9 | 1784.9 | 1770.9 | 1760.5 | 1753.5 | 1743.1 | 1732.6 | 1708.2 | 1683.8 | 1655.9 | 1635.1 |
| 37.5° | 1621.1 | 1621.1 | 1617.6 | 1600.1 | 1593.2 | 1586.3 | 1575.8 | 1551.3 | 1537.4 | 1509.6 | 1488.6 |
| 40° | 1457.2 | 1453.7 | 1443.2 | 1439.8 | 1432.9 | 1422.4 | 1415.3 | 1401.5 | 1380.5 | 1359.6 | 1338.8 |
| 42.5° | 1296.9 | 1300.3 | 1286.4 | 1289.8 | 1275.9 | 1269.0 | 1265.5 | 1244.5 | 1234.1 | 1213.1 | 1195.7 |
| 45° | 1154.0 | 1150.4 | 1143.5 | 1140.0 | 1133.0 | 1126.1 | 1119.0 | 1108.6 | 1091.2 | 1070.2 | 1059.9 |
| 47.5° | 1021.5 | 1011.0 | 1011.0 | 1007.5 | 1004.0 | 990.1 | 986.6 | 976.1 | 965.6 | 944.7 | 930.8 |
| 50° | 896.0 | 896.0 | 896.0 | 892.5 | 882.0 | 878.5 | 871.5 | 861.1 | 850.6 | 836.7 | 815.8 |
| 52.5° | 794.8 | 794.8 | 794.8 | 791.3 | 777.4 | 773.9 | 770.5 | 756.5 | 742.6 | 732.1 | 718.1 |
| 55° | 700.7 | 704.3 | 700.7 | 693.8 | 683.3 | 683.3 | 672.8 | 665.9 | 651.9 | 641.4 | 627.6 |
| 57.5° | 620.5 | 620.5 | 613.6 | 610.0 | 603.1 | 599.7 | 592.6 | 585.7 | 568.3 | 557.8 | 540.4 |
| 60° | 543.8 | 540.4 | 540.4 | 533.3 | 526.4 | 519.5 | 515.9 | 505.5 | 498.5 | 481.1 | 467.1 |
| 62.5° | 474.2 | 474.2 | 467.1 | 467.1 | 453.2 | 453.2 | 449.7 | 439.2 | 428.8 | 411.4 | 404.4 |
| 65° | 407.8 | 407.8 | 404.4 | 400.9 | 390.4 | 387.0 | 383.5 | 373.0 | 362.5 | 352.1 | 341.6 |
| 67.5° | 348.7 | 348.7 | 341.6 | 338.2 | 331.1 | 327.7 | 320.8 | 313.7 | 303.3 | 292.8 | 282.4 |
| 70° | 292.8 | 289.4 | 285.8 | 282.4 | 275.4 | 272.0 | 264.9 | 258.0 | 247.5 | 240.6 | 230.1 |
| 72.5° | 237.0 | 237.0 | 233.6 | 226.6 | 223.1 | 219.6 | 216.1 | 209.2 | 198.7 | 188.2 | 181.3 |
| 75° | 184.8 | 184.8 | 184.8 | 177.7 | 170.8 | 167.4 | 167.4 | 160.3 | 153.4 | 142.9 | 136.0 |
| 77.5° | 142.9 | 139.4 | 136.0 | 136.0 | 129.0 | 125.5 | 122.0 | 118.6 | 108.1 | 104.6 | 97.6 |
| 80° | 97.6 | 101.2 | 97.6 | 94.1 | 90.7 | 87.2 | 87.2 | 80.2 | 76.7 | 69.8 | 62.7 |
| 82.5° | 66.2 | 62.7 | 62.7 | 59.3 | 59.3 | 55.8 | 55.8 | 48.8 | 45.3 | 41.9 | 38.3 |
| 85° | 34.8 | 34.8 | 31.4 | 31.4 | 31.4 | 27.9 | 27.9 | 24.5 | 24.5 | 20.9 | 17.4 |
| 87.5° | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 6.9 | 6.9 | 6.9 |
| 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: P585065

CATALOG NUMBER: HC860D010-HM86080827-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 |
| 2.5° | 2363.7 | 2356.6 | 2353.2 | 2353.2 | 2349.7 | 2346.2 | 2342.7 | 2339.2 | 2332.3 | 2332.3 | 2325.3 |
| 5° | 2381.1 | 2374.0 | 2370.6 | 2360.2 | 2353.2 | 2353.2 | 2339.2 | 2335.8 | 2325.3 | 2318.3 | 2311.3 |
| 7.5° | 2395.0 | 2381.1 | 2370.6 | 2360.2 | 2353.2 | 2346.2 | 2332.3 | 2318.3 | 2304.4 | 2290.4 | 2283.5 |
| 10° | 2395.0 | 2381.1 | 2363.7 | 2346.2 | 2339.2 | 2332.3 | 2314.9 | 2293.9 | 2276.5 | 2262.5 | 2245.1 |
| 12.5° | 2388.0 | 2367.1 | 2346.2 | 2332.3 | 2318.3 | 2307.8 | 2287.0 | 2266.0 | 2245.1 | 2217.2 | 2203.2 |
| 15° | 2367.1 | 2339.2 | 2318.3 | 2293.9 | 2283.5 | 2266.0 | 2248.6 | 2217.2 | 2192.8 | 2168.4 | 2151.0 |
| 17.5° | 2325.3 | 2290.4 | 2266.0 | 2241.6 | 2224.2 | 2213.7 | 2185.8 | 2157.9 | 2130.1 | 2102.2 | 2081.3 |
| 20° | 2262.5 | 2231.1 | 2203.2 | 2171.9 | 2157.9 | 2144.1 | 2109.1 | 2081.3 | 2053.4 | 2022.0 | 2001.0 |
| 22.5° | 2185.8 | 2154.4 | 2116.1 | 2091.7 | 2070.8 | 2053.4 | 2022.0 | 1990.7 | 1962.7 | 1934.8 | 1906.9 |
| 25° | 2091.7 | 2060.3 | 2025.5 | 1987.1 | 1973.2 | 1955.7 | 1920.9 | 1889.5 | 1858.1 | 1826.8 | 1802.4 |
| 27.5° | 1990.7 | 1948.8 | 1920.9 | 1879.0 | 1865.2 | 1847.6 | 1809.3 | 1774.5 | 1746.6 | 1722.1 | 1694.3 |
| 30° | 1868.6 | 1837.3 | 1798.8 | 1760.5 | 1746.6 | 1729.2 | 1697.8 | 1666.4 | 1638.5 | 1610.6 | 1582.7 |
| 32.5° | 1736.1 | 1704.7 | 1666.4 | 1638.5 | 1617.6 | 1603.7 | 1572.3 | 1544.4 | 1516.5 | 1488.6 | 1464.2 |
| 35° | 1596.7 | 1561.8 | 1533.9 | 1506.0 | 1488.6 | 1471.2 | 1439.8 | 1415.3 | 1394.5 | 1370.1 | 1345.7 |
| 37.5° | 1453.7 | 1429.3 | 1401.5 | 1370.1 | 1352.6 | 1338.8 | 1314.3 | 1286.4 | 1269.0 | 1248.1 | 1230.7 |
| 40° | 1314.3 | 1286.4 | 1262.1 | 1234.1 | 1220.2 | 1209.7 | 1185.3 | 1164.4 | 1146.9 | 1129.5 | 1119.0 |
| 42.5° | 1171.4 | 1146.9 | 1122.6 | 1105.1 | 1094.7 | 1084.2 | 1066.8 | 1042.3 | 1031.9 | 1014.5 | 1004.0 |
| 45° | 1038.9 | 1018.0 | 1000.6 | 976.1 | 969.2 | 962.2 | 941.3 | 923.9 | 913.4 | 902.9 | 896.0 |
| 47.5° | 913.4 | 899.4 | 878.5 | 864.6 | 854.1 | 847.2 | 833.2 | 819.3 | 808.8 | 801.8 | 794.8 |
| 50° | 805.3 | 787.9 | 773.9 | 760.0 | 753.1 | 742.6 | 728.6 | 721.7 | 714.6 | 707.7 | 707.7 |
| 52.5° | 704.3 | 686.7 | 672.8 | 662.4 | 655.4 | 648.4 | 637.9 | 634.5 | 627.6 | 627.6 | 624.0 |
| 55° | 610.0 | 599.7 | 585.7 | 571.7 | 568.3 | 564.8 | 557.8 | 550.9 | 547.3 | 543.8 | 547.3 |
| 57.5° | 529.9 | 519.5 | 505.5 | 495.0 | 491.6 | 488.1 | 484.5 | 477.6 | 474.2 | 474.2 | 474.2 |
| 60° | 456.7 | 446.3 | 435.8 | 425.3 | 425.3 | 418.3 | 414.9 | 411.4 | 407.8 | 404.4 | 404.4 |
| 62.5° | 390.4 | 380.0 | 369.5 | 362.5 | 359.1 | 355.6 | 348.7 | 345.1 | 341.6 | 341.6 | 338.2 |
| 65° | 331.1 | 317.3 | 313.7 | 303.3 | 299.8 | 296.3 | 292.8 | 285.8 | 282.4 | 278.9 | 275.4 |
| 67.5° | 272.0 | 264.9 | 254.4 | 247.5 | 244.1 | 240.6 | 237.0 | 230.1 | 226.6 | 223.1 | 216.1 |
| 70° | 219.6 | 212.7 | 205.7 | 198.7 | 195.3 | 191.7 | 184.8 | 177.7 | 174.3 | 167.4 | 156.9 |
| 72.5° | 170.8 | 163.9 | 156.9 | 149.9 | 146.4 | 142.9 | 136.0 | 129.0 | 122.0 | 115.0 | 108.1 |
| 75° | 129.0 | 122.0 | 111.5 | 104.6 | 101.2 | 101.2 | 90.7 | 83.6 | 76.7 | 66.2 | 59.3 |
| 77.5° | 90.7 | 80.2 | 76.7 | 69.8 | 66.2 | 59.3 | 52.2 | 45.3 | 38.3 | 34.8 | 27.9 |
| 80° | 59.3 | 52.2 | 45.3 | 41.9 | 38.3 | 34.8 | 31.4 | 24.5 | 17.4 | 14.0 | 10.5 |
| 82.5° | 34.8 | 31.4 | 27.9 | 24.5 | 20.9 | 17.4 | 14.0 | 14.0 | 10.5 | 6.9 | 3.5 |
| 85° | 17.4 | 14.0 | 10.5 | 10.5 | 6.9 | 6.9 | 6.9 | 3.5 | 3.5 | 3.5 | 3.5 |
| 87.5° | 6.9 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 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: P585065

CATALOG NUMBER: HC860D010-HM86080827-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 |
| 2.5° | 2321.8 | 2318.3 | 2314.9 | 2311.3 | 2311.3 | 2304.4 | 2304.4 | 2300.9 | 2293.9 | 2290.4 | 2290.4 |
| 5° | 2300.9 | 2290.4 | 2283.5 | 2279.9 | 2276.5 | 2266.0 | 2262.5 | 2255.6 | 2248.6 | 2241.6 | 2238.2 |
| 7.5° | 2269.5 | 2252.1 | 2245.1 | 2241.6 | 2231.1 | 2220.8 | 2213.7 | 2203.2 | 2192.8 | 2182.3 | 2178.9 |
| 10° | 2231.1 | 2213.7 | 2196.3 | 2189.4 | 2178.9 | 2171.9 | 2157.9 | 2144.1 | 2133.6 | 2123.1 | 2112.7 |
| 12.5° | 2182.3 | 2161.5 | 2144.1 | 2137.0 | 2126.5 | 2112.7 | 2091.7 | 2084.8 | 2067.4 | 2060.3 | 2046.4 |
| 15° | 2126.5 | 2102.2 | 2084.8 | 2074.3 | 2063.8 | 2042.9 | 2028.9 | 2015.0 | 1997.6 | 1990.7 | 1976.7 |
| 17.5° | 2056.9 | 2028.9 | 2011.5 | 2001.0 | 1994.1 | 1976.7 | 1955.7 | 1938.3 | 1920.9 | 1914.0 | 1903.5 |
| 20° | 1973.2 | 1955.7 | 1931.4 | 1920.9 | 1914.0 | 1893.0 | 1872.1 | 1865.2 | 1851.2 | 1837.3 | 1826.8 |
| 22.5° | 1879.0 | 1861.6 | 1837.3 | 1826.8 | 1823.3 | 1805.9 | 1788.5 | 1778.0 | 1767.5 | 1757.1 | 1746.6 |
| 25° | 1781.4 | 1760.5 | 1739.6 | 1732.6 | 1725.7 | 1711.8 | 1697.8 | 1690.8 | 1680.4 | 1673.4 | 1666.4 |
| 27.5° | 1676.8 | 1655.9 | 1638.5 | 1628.0 | 1621.1 | 1610.6 | 1603.7 | 1596.7 | 1589.7 | 1582.7 | 1579.2 |
| 30° | 1565.3 | 1544.4 | 1530.4 | 1523.4 | 1516.5 | 1513.0 | 1502.5 | 1499.1 | 1495.6 | 1488.6 | 1492.0 |
| 32.5° | 1453.7 | 1436.3 | 1422.4 | 1411.9 | 1411.9 | 1405.0 | 1401.5 | 1401.5 | 1397.9 | 1397.9 | 1397.9 |
| 35° | 1331.7 | 1321.2 | 1310.8 | 1307.4 | 1303.8 | 1300.3 | 1296.9 | 1300.3 | 1296.9 | 1300.3 | 1303.8 |
| 37.5° | 1220.2 | 1209.7 | 1202.8 | 1199.3 | 1195.7 | 1199.3 | 1195.7 | 1195.7 | 1199.3 | 1206.2 | 1209.7 |
| 40° | 1105.1 | 1098.2 | 1091.2 | 1094.7 | 1091.2 | 1091.2 | 1091.2 | 1101.6 | 1105.1 | 1108.6 | 1112.1 |
| 42.5° | 997.0 | 990.1 | 986.6 | 986.6 | 990.1 | 986.6 | 993.5 | 997.0 | 1004.0 | 1014.5 | 1021.5 |
| 45° | 892.5 | 888.9 | 888.9 | 892.5 | 888.9 | 896.0 | 896.0 | 902.9 | 913.4 | 920.3 | 927.3 |
| 47.5° | 794.8 | 794.8 | 794.8 | 798.4 | 798.4 | 801.8 | 808.8 | 812.3 | 819.3 | 826.2 | 833.2 |
| 50° | 704.3 | 707.7 | 711.2 | 711.2 | 711.2 | 718.1 | 725.1 | 728.6 | 732.1 | 735.6 | 746.0 |
| 52.5° | 624.0 | 627.6 | 627.6 | 631.0 | 634.5 | 637.9 | 641.4 | 648.4 | 651.9 | 658.9 | 662.4 |
| 55° | 547.3 | 547.3 | 554.3 | 557.8 | 557.8 | 557.8 | 564.8 | 564.8 | 571.7 | 575.2 | 582.2 |
| 57.5° | 474.2 | 477.6 | 477.6 | 481.1 | 481.1 | 484.5 | 488.1 | 491.6 | 495.0 | 498.5 | 502.0 |
| 60° | 404.4 | 404.4 | 404.4 | 407.8 | 411.4 | 414.9 | 411.4 | 418.3 | 418.3 | 425.3 | 428.8 |
| 62.5° | 338.2 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 345.1 | 348.7 | 352.1 | 355.6 |
| 65° | 275.4 | 275.4 | 275.4 | 272.0 | 275.4 | 272.0 | 275.4 | 278.9 | 278.9 | 282.4 | 285.8 |
| 67.5° | 212.7 | 212.7 | 205.7 | 205.7 | 209.2 | 209.2 | 209.2 | 209.2 | 205.7 | 212.7 | 212.7 |
| 70° | 153.4 | 149.9 | 146.4 | 142.9 | 142.9 | 139.4 | 139.4 | 136.0 | 136.0 | 136.0 | 136.0 |
| 72.5° | 101.2 | 94.1 | 87.2 | 83.6 | 80.2 | 80.2 | 73.2 | 69.8 | 73.2 | 73.2 | 73.2 |
| 75° | 52.2 | 45.3 | 41.9 | 38.3 | 34.8 | 34.8 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 |
| 77.5° | 20.9 | 17.4 | 14.0 | 14.0 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| 80° | 6.9 | 6.9 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 3.5 | 0.0 | 0.0 | 3.5 | 0.0 | 3.5 | 3.5 | 3.5 | 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: P585065

CATALOG NUMBER: HC860D010-HM86080827-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 | 2332.3 |
| 2.5° | 2287.0 | 2287.0 | 2283.5 | 2287.0 | 2279.9 | 2283.5 | 2279.9 | 2279.9 |
| 5° | 2234.6 | 2227.7 | 2227.7 | 2227.7 | 2224.2 | 2224.2 | 2220.8 | 2220.8 |
| 7.5° | 2171.9 | 2168.4 | 2164.9 | 2161.5 | 2157.9 | 2154.4 | 2154.4 | 2154.4 |
| 10° | 2109.1 | 2102.2 | 2102.2 | 2098.7 | 2091.7 | 2088.2 | 2088.2 | 2088.2 |
| 12.5° | 2036.0 | 2032.4 | 2028.9 | 2028.9 | 2015.0 | 2018.4 | 2015.0 | 2015.0 |
| 15° | 1966.2 | 1962.7 | 1962.7 | 1952.2 | 1945.3 | 1945.3 | 1945.3 | 1941.9 |
| 17.5° | 1893.0 | 1889.5 | 1886.0 | 1879.0 | 1872.1 | 1872.1 | 1868.6 | 1872.1 |
| 20° | 1816.3 | 1812.8 | 1805.9 | 1805.9 | 1802.4 | 1798.8 | 1791.9 | 1795.4 |
| 22.5° | 1739.6 | 1732.6 | 1729.2 | 1729.2 | 1725.7 | 1725.7 | 1718.7 | 1718.7 |
| 25° | 1659.4 | 1655.9 | 1652.5 | 1655.9 | 1649.0 | 1649.0 | 1642.0 | 1642.0 |
| 27.5° | 1575.8 | 1572.3 | 1572.3 | 1572.3 | 1568.7 | 1572.3 | 1568.7 | 1568.7 |
| 30° | 1492.0 | 1492.0 | 1488.6 | 1488.6 | 1492.0 | 1488.6 | 1492.0 | 1495.6 |
| 32.5° | 1401.5 | 1401.5 | 1405.0 | 1405.0 | 1408.4 | 1408.4 | 1408.4 | 1408.4 |
| 35° | 1307.4 | 1314.3 | 1314.3 | 1317.8 | 1321.2 | 1324.8 | 1324.8 | 1328.3 |
| 37.5° | 1220.2 | 1223.6 | 1227.1 | 1230.7 | 1237.6 | 1237.6 | 1237.6 | 1237.6 |
| 40° | 1126.1 | 1129.5 | 1136.4 | 1133.0 | 1146.9 | 1150.4 | 1146.9 | 1146.9 |
| 42.5° | 1028.4 | 1035.4 | 1038.9 | 1045.9 | 1049.4 | 1056.3 | 1059.9 | 1059.9 |
| 45° | 937.8 | 941.3 | 948.2 | 955.2 | 958.7 | 969.2 | 969.2 | 969.2 |
| 47.5° | 843.7 | 850.6 | 854.1 | 861.1 | 864.6 | 875.1 | 878.5 | 875.1 |
| 50° | 753.1 | 760.0 | 767.0 | 767.0 | 777.4 | 780.9 | 787.9 | 791.3 |
| 52.5° | 665.9 | 669.3 | 676.4 | 679.8 | 686.7 | 693.8 | 697.2 | 700.7 |
| 55° | 582.2 | 585.7 | 592.6 | 592.6 | 603.1 | 606.6 | 613.6 | 613.6 |
| 57.5° | 505.5 | 509.0 | 515.9 | 512.5 | 519.5 | 526.4 | 526.4 | 523.0 |
| 60° | 432.3 | 432.3 | 432.3 | 439.2 | 442.8 | 446.3 | 449.7 | 449.7 |
| 62.5° | 355.6 | 362.5 | 366.1 | 366.1 | 369.5 | 373.0 | 373.0 | 369.5 |
| 65° | 285.8 | 292.8 | 296.3 | 296.3 | 299.8 | 299.8 | 299.8 | 303.3 |
| 67.5° | 216.1 | 216.1 | 216.1 | 219.6 | 216.1 | 216.1 | 216.1 | 216.1 |
| 70° | 136.0 | 136.0 | 136.0 | 136.0 | 132.5 | 136.0 | 136.0 | 139.4 |
| 72.5° | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 |
| 75° | 31.4 | 31.4 | 31.4 | 34.8 | 31.4 | 31.4 | 31.4 | 31.4 |
| 77.5° | 14.0 | 10.5 | 14.0 | 14.0 | 10.5 | 10.5 | 10.5 | 10.5 |
| 80° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 0.0 | 3.5 | 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)