

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: P585203

Luminaire Tested: **HC880D010-HM86080827-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585203
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: HC880D010-HM86080827-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5897.2 lumens
Efficiency: N/A
Efficacy: 84.2 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

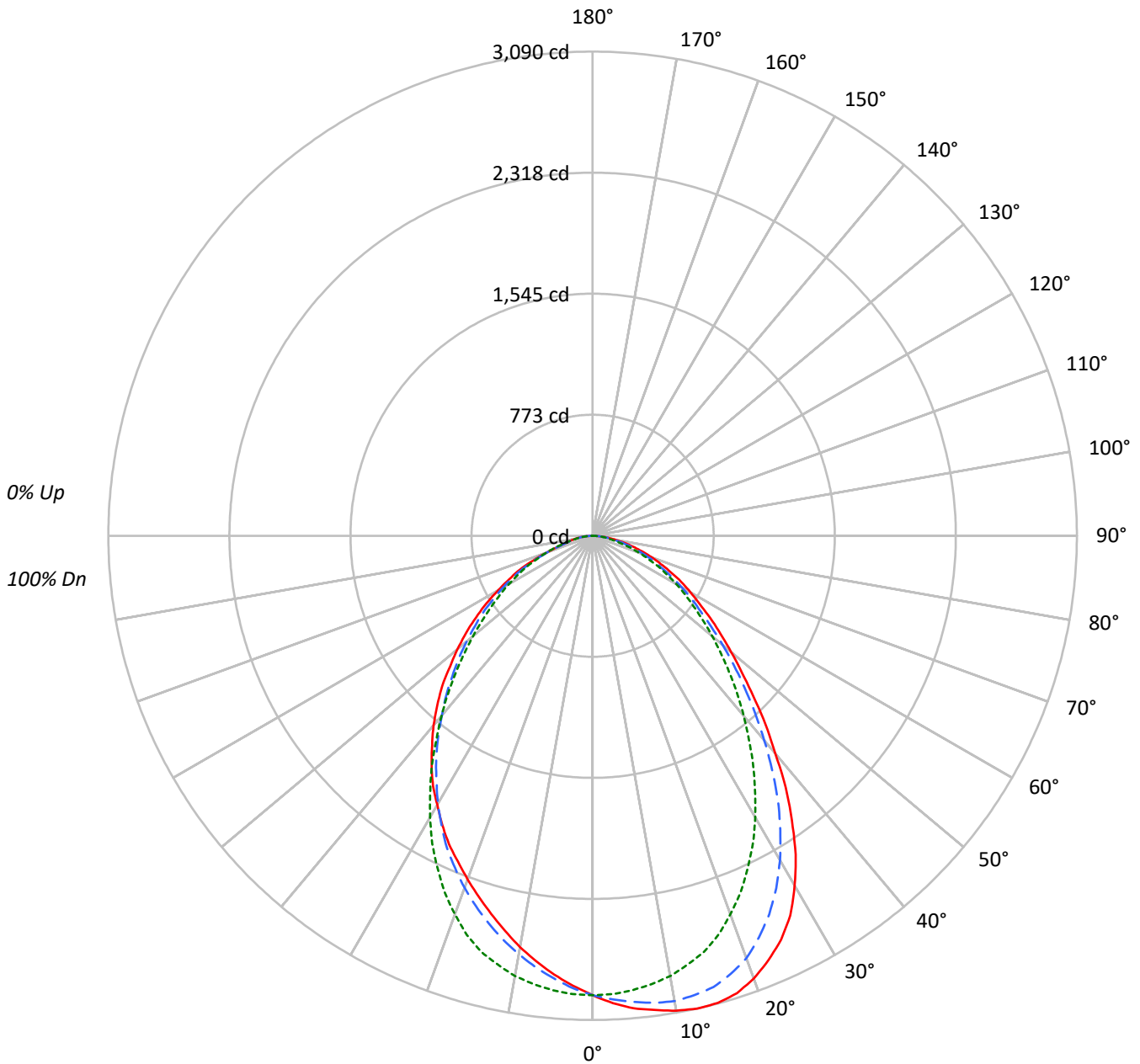
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585203

CATALOG NUMBER: HC880D010-HM86080827-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P585203

CATALOG NUMBER: HC880D010-HM86080827-81WWWB

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | 75 | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | 65 | | | |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | | 57 | | | |
| 5 | 80 | 69 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | | | 50 | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | 45 | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 | | | | | 40 | | | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | | | | | 37 | | | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | 30 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 90415 | 90415 | 90415 |
| 5° | 93726 | 90117 | 87021 |
| 10° | 96372 | 89333 | 83462 |
| 15° | 98524 | 87753 | 79775 |
| 20° | 98679 | 84329 | 76535 |
| 25° | 96788 | 79640 | 73829 |
| 30° | 91798 | 73852 | 70590 |
| 35° | 83408 | 67259 | 67417 |
| 40° | 72928 | 60353 | 63541 |
| 45° | 63207 | 53766 | 59208 |
| 50° | 55346 | 47752 | 53950 |
| 55° | 49256 | 42316 | 48810 |
| 60° | 44435 | 38015 | 42899 |
| 65° | 40116 | 33425 | 37380 |
| 70° | 36055 | 28166 | 27787 |
| 75° | 31763 | 22327 | 20838 |
| 80° | 26619 | 18504 | 19978 |
| 85° | 20627 | 16204 | 17655 |



TEST NUMBER: P585203

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 276.6 | 4.7 |
| 10°-20° | 779.1 | 13.2 |
| 20°-30° | 1113.4 | 18.9 |
| 30°-40° | 1183.1 | 20.1 |
| 40°-50° | 1018.6 | 17.3 |
| 50°-60° | 761.5 | 12.9 |
| 60°-70° | 485.7 | 8.2 |
| 70°-80° | 221.1 | 3.7 |
| 80°-90° | 58.0 | 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° | 2169.1 | 36.8 |
| 0°-40° | 3352.2 | 56.8 |
| 0°-60° | 5132.3 | 87.0 |
| 0°-90° | 5897.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5897.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2932 | 2932 | 2932 | 2932 | 2932 | |
| 5° | 3028 | 2986 | 2911 | 2836 | 2811 | 290 |
| 15° | 3086 | 2982 | 2749 | 2562 | 2499 | 869 |
| 25° | 2845 | 2666 | 2341 | 2199 | 2170 | 1302 |
| 35° | 2216 | 2062 | 1787 | 1741 | 1791 | 1380 |
| 45° | 1449 | 1370 | 1233 | 1266 | 1358 | 1127 |
| 55° | 916 | 841 | 787 | 854 | 908 | 824 |
| 65° | 550 | 487 | 458 | 479 | 512 | 548 |
| 75° | 267 | 229 | 187 | 171 | 175 | 283 |
| 85° | 58 | 50 | 46 | 50 | 50 | 70 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P585203

CATALOG NUMBER: HC880D010-HM86080827-81WWWB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 |
| 2.5° | 2986.3 | 2978.0 | 2982.1 | 2978.0 | 2982.1 | 2982.1 | 2973.8 | 2973.8 | 2973.8 | 2973.8 | 2961.2 |
| 5° | 3027.9 | 3023.7 | 3023.7 | 3019.6 | 3015.4 | 3019.6 | 3015.4 | 3011.3 | 3002.9 | 2998.8 | 2986.3 |
| 7.5° | 3052.9 | 3052.9 | 3052.9 | 3052.9 | 3048.7 | 3044.6 | 3040.4 | 3032.1 | 3023.7 | 3015.4 | 3007.1 |
| 10° | 3077.8 | 3082.0 | 3077.8 | 3073.7 | 3069.5 | 3061.2 | 3057.0 | 3048.7 | 3036.2 | 3023.7 | 3015.4 |
| 12.5° | 3090.3 | 3090.3 | 3086.2 | 3086.2 | 3077.8 | 3073.7 | 3061.2 | 3048.7 | 3036.2 | 3023.7 | 3002.9 |
| 15° | 3086.2 | 3086.2 | 3082.0 | 3077.8 | 3065.4 | 3061.2 | 3052.9 | 3040.4 | 3019.6 | 3002.9 | 2982.1 |
| 17.5° | 3061.2 | 3057.0 | 3048.7 | 3048.7 | 3032.1 | 3027.9 | 3019.6 | 3002.9 | 2982.1 | 2957.0 | 2932.1 |
| 20° | 3007.1 | 3007.1 | 3002.9 | 2998.8 | 2982.1 | 2969.5 | 2961.2 | 2940.4 | 2923.8 | 2894.6 | 2869.7 |
| 22.5° | 2932.1 | 2940.4 | 2932.1 | 2923.8 | 2902.9 | 2898.8 | 2886.3 | 2861.3 | 2836.4 | 2802.9 | 2773.8 |
| 25° | 2844.7 | 2840.5 | 2836.4 | 2828.0 | 2811.3 | 2802.9 | 2786.3 | 2761.3 | 2736.4 | 2698.9 | 2665.5 |
| 27.5° | 2732.2 | 2715.6 | 2715.6 | 2698.9 | 2686.4 | 2673.8 | 2665.5 | 2640.5 | 2607.2 | 2578.1 | 2536.4 |
| 30° | 2578.1 | 2582.3 | 2561.5 | 2557.3 | 2536.4 | 2528.1 | 2511.4 | 2486.4 | 2457.3 | 2424.0 | 2390.6 |
| 32.5° | 2411.5 | 2399.0 | 2399.0 | 2382.3 | 2365.6 | 2353.1 | 2349.0 | 2319.9 | 2294.9 | 2261.6 | 2228.2 |
| 35° | 2215.7 | 2215.7 | 2203.2 | 2199.1 | 2182.4 | 2174.1 | 2161.6 | 2145.0 | 2115.8 | 2086.6 | 2061.6 |
| 37.5° | 2024.2 | 2015.8 | 2011.7 | 2003.3 | 1990.9 | 1978.4 | 1978.4 | 1949.1 | 1945.0 | 1911.7 | 1878.4 |
| 40° | 1811.7 | 1820.1 | 1811.7 | 1799.2 | 1795.0 | 1786.7 | 1782.5 | 1765.9 | 1753.4 | 1724.3 | 1703.5 |
| 42.5° | 1632.6 | 1624.3 | 1624.3 | 1620.1 | 1603.5 | 1603.5 | 1595.2 | 1586.8 | 1566.0 | 1557.7 | 1532.7 |
| 45° | 1449.4 | 1457.7 | 1445.2 | 1449.4 | 1432.7 | 1432.7 | 1432.7 | 1416.1 | 1399.5 | 1387.0 | 1370.2 |
| 47.5° | 1291.1 | 1295.3 | 1295.3 | 1282.8 | 1278.7 | 1278.7 | 1270.3 | 1262.0 | 1249.5 | 1232.9 | 1220.3 |
| 50° | 1153.7 | 1157.8 | 1149.5 | 1145.4 | 1137.0 | 1132.9 | 1132.9 | 1116.2 | 1107.9 | 1091.3 | 1082.8 |
| 52.5° | 1028.7 | 1028.7 | 1024.6 | 1024.6 | 1012.1 | 1012.1 | 1003.8 | 991.3 | 982.9 | 974.6 | 953.8 |
| 55° | 916.2 | 916.2 | 912.1 | 907.9 | 907.9 | 895.4 | 891.3 | 878.8 | 870.5 | 853.8 | 841.3 |
| 57.5° | 808.0 | 812.2 | 808.0 | 803.9 | 799.7 | 795.4 | 787.1 | 774.6 | 766.3 | 753.8 | 745.5 |
| 60° | 720.5 | 720.5 | 716.4 | 712.2 | 703.9 | 699.7 | 695.6 | 687.2 | 674.8 | 666.4 | 654.0 |
| 62.5° | 637.2 | 633.0 | 628.9 | 624.7 | 616.4 | 616.4 | 608.1 | 599.7 | 587.2 | 578.9 | 570.6 |
| 65° | 549.8 | 549.8 | 545.6 | 545.6 | 541.5 | 533.1 | 529.0 | 524.8 | 508.2 | 503.9 | 487.3 |
| 67.5° | 470.6 | 474.8 | 466.4 | 466.4 | 458.1 | 458.1 | 454.0 | 441.5 | 437.3 | 429.0 | 420.7 |
| 70° | 399.9 | 399.9 | 399.9 | 395.7 | 387.4 | 383.2 | 379.1 | 370.7 | 366.6 | 358.1 | 349.8 |
| 72.5° | 329.0 | 329.0 | 324.8 | 324.8 | 320.7 | 316.5 | 312.4 | 304.0 | 304.0 | 295.7 | 287.4 |
| 75° | 266.6 | 266.6 | 262.4 | 258.3 | 254.1 | 254.1 | 249.9 | 245.8 | 237.4 | 233.3 | 229.1 |
| 77.5° | 204.0 | 204.0 | 204.0 | 199.9 | 195.7 | 195.7 | 195.7 | 187.4 | 179.1 | 179.1 | 174.9 |
| 80° | 149.9 | 149.9 | 145.8 | 145.8 | 141.6 | 141.6 | 141.6 | 137.4 | 133.3 | 129.1 | 125.0 |
| 82.5° | 100.0 | 100.0 | 100.0 | 100.0 | 95.8 | 95.8 | 95.8 | 91.7 | 87.5 | 87.5 | 87.5 |
| 85° | 58.3 | 58.3 | 58.3 | 58.3 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 49.9 | 49.9 |
| 87.5° | 25.0 | 20.8 | 25.0 | 20.8 | 25.0 | 20.8 | 25.0 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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: P585203

CATALOG NUMBER: HC880D010-HM86080827-81WWWB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 |
| 2.5° | 2965.4 | 2961.2 | 2957.0 | 2952.9 | 2952.9 | 2948.7 | 2940.4 | 2936.2 | 2932.1 | 2927.9 | 2927.9 |
| 5° | 2982.1 | 2978.0 | 2969.5 | 2961.2 | 2957.0 | 2948.7 | 2940.4 | 2932.1 | 2923.8 | 2911.3 | 2907.1 |
| 7.5° | 2994.6 | 2982.1 | 2973.8 | 2957.0 | 2952.9 | 2944.6 | 2932.1 | 2919.6 | 2902.9 | 2886.3 | 2873.8 |
| 10° | 2994.6 | 2978.0 | 2965.4 | 2944.6 | 2936.2 | 2927.9 | 2911.3 | 2890.5 | 2869.7 | 2853.0 | 2832.2 |
| 12.5° | 2986.3 | 2965.4 | 2944.6 | 2923.8 | 2911.3 | 2898.8 | 2873.8 | 2853.0 | 2828.0 | 2802.9 | 2786.3 |
| 15° | 2957.0 | 2932.1 | 2907.1 | 2882.1 | 2869.7 | 2853.0 | 2828.0 | 2798.8 | 2773.8 | 2748.8 | 2719.7 |
| 17.5° | 2902.9 | 2878.0 | 2848.8 | 2819.6 | 2802.9 | 2790.5 | 2753.0 | 2732.2 | 2694.7 | 2669.7 | 2644.7 |
| 20° | 2832.2 | 2802.9 | 2765.5 | 2736.4 | 2715.6 | 2703.1 | 2673.8 | 2636.4 | 2607.2 | 2569.8 | 2544.8 |
| 22.5° | 2740.5 | 2703.1 | 2665.5 | 2636.4 | 2615.6 | 2598.9 | 2561.5 | 2523.9 | 2498.9 | 2465.6 | 2436.5 |
| 25° | 2632.2 | 2594.8 | 2557.3 | 2515.6 | 2494.8 | 2478.1 | 2444.8 | 2411.5 | 2378.1 | 2340.7 | 2315.7 |
| 27.5° | 2503.1 | 2461.5 | 2428.2 | 2390.6 | 2369.8 | 2344.8 | 2307.4 | 2274.1 | 2240.7 | 2215.7 | 2182.4 |
| 30° | 2361.5 | 2315.7 | 2282.4 | 2244.8 | 2224.0 | 2203.2 | 2165.8 | 2132.5 | 2103.3 | 2074.1 | 2057.4 |
| 32.5° | 2190.7 | 2157.4 | 2124.1 | 2086.6 | 2069.9 | 2057.4 | 2020.0 | 1986.7 | 1953.3 | 1928.3 | 1915.8 |
| 35° | 2028.3 | 1990.9 | 1961.7 | 1928.3 | 1907.5 | 1895.0 | 1861.7 | 1832.6 | 1816.0 | 1786.7 | 1770.1 |
| 37.5° | 1857.6 | 1828.4 | 1795.0 | 1761.7 | 1749.3 | 1736.8 | 1711.8 | 1682.7 | 1657.6 | 1636.8 | 1628.5 |
| 40° | 1678.5 | 1653.4 | 1624.3 | 1603.5 | 1591.0 | 1578.5 | 1557.7 | 1536.9 | 1520.1 | 1499.3 | 1491.0 |
| 42.5° | 1507.7 | 1491.0 | 1466.0 | 1441.1 | 1428.6 | 1424.4 | 1399.5 | 1382.8 | 1374.4 | 1366.0 | 1357.7 |
| 45° | 1353.6 | 1328.6 | 1311.9 | 1295.3 | 1282.8 | 1274.5 | 1262.0 | 1249.5 | 1241.2 | 1232.9 | 1224.4 |
| 47.5° | 1203.6 | 1182.8 | 1166.2 | 1153.7 | 1141.2 | 1137.0 | 1128.7 | 1116.2 | 1107.9 | 1107.9 | 1107.9 |
| 50° | 1066.2 | 1049.5 | 1032.9 | 1024.6 | 1020.4 | 1012.1 | 1003.8 | 999.6 | 995.4 | 995.4 | 995.4 |
| 52.5° | 945.5 | 928.7 | 916.2 | 907.9 | 907.9 | 899.6 | 891.3 | 887.1 | 887.1 | 887.1 | 887.1 |
| 55° | 833.0 | 820.5 | 812.2 | 803.9 | 795.4 | 791.3 | 791.3 | 791.3 | 787.1 | 787.1 | 791.3 |
| 57.5° | 733.0 | 724.7 | 712.2 | 703.9 | 699.7 | 699.7 | 695.6 | 691.4 | 695.6 | 699.7 | 703.9 |
| 60° | 641.3 | 633.0 | 628.9 | 616.4 | 616.4 | 616.4 | 612.2 | 612.2 | 612.2 | 616.4 | 620.5 |
| 62.5° | 558.1 | 554.0 | 545.6 | 541.5 | 537.3 | 537.3 | 533.1 | 533.1 | 533.1 | 533.1 | 537.3 |
| 65° | 483.1 | 474.8 | 466.4 | 466.4 | 466.4 | 462.3 | 462.3 | 454.0 | 458.1 | 458.1 | 454.0 |
| 67.5° | 412.3 | 404.0 | 399.9 | 395.7 | 391.5 | 391.5 | 387.4 | 383.2 | 379.1 | 379.1 | 379.1 |
| 70° | 345.6 | 337.3 | 337.3 | 329.0 | 329.0 | 324.8 | 320.7 | 320.7 | 316.5 | 312.4 | 308.2 |
| 72.5° | 279.1 | 274.9 | 270.7 | 266.6 | 266.6 | 266.6 | 262.4 | 258.3 | 254.1 | 249.9 | 241.6 |
| 75° | 220.8 | 220.8 | 212.4 | 208.2 | 208.2 | 204.0 | 199.9 | 195.7 | 191.5 | 187.4 | 183.2 |
| 77.5° | 170.7 | 166.6 | 158.3 | 154.1 | 154.1 | 154.1 | 149.9 | 145.8 | 141.6 | 137.4 | 133.3 |
| 80° | 125.0 | 120.8 | 116.6 | 112.5 | 112.5 | 112.5 | 108.3 | 108.3 | 104.2 | 104.2 | 104.2 |
| 82.5° | 83.3 | 83.3 | 79.2 | 79.2 | 79.2 | 79.2 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| 85° | 49.9 | 49.9 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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: P585203

CATALOG NUMBER: HC880D010-HM86080827-81WWWB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 |
| 2.5° | 2919.6 | 2919.6 | 2911.3 | 2907.1 | 2902.9 | 2907.1 | 2898.8 | 2894.6 | 2890.5 | 2890.5 | 2886.3 |
| 5° | 2894.6 | 2890.5 | 2873.8 | 2869.7 | 2865.5 | 2861.3 | 2853.0 | 2844.7 | 2836.4 | 2832.2 | 2828.0 |
| 7.5° | 2861.3 | 2848.8 | 2832.2 | 2828.0 | 2823.8 | 2811.3 | 2798.8 | 2790.5 | 2778.0 | 2773.8 | 2765.5 |
| 10° | 2815.4 | 2798.8 | 2786.3 | 2773.8 | 2765.5 | 2753.0 | 2740.5 | 2728.0 | 2711.4 | 2707.2 | 2694.7 |
| 12.5° | 2761.3 | 2740.5 | 2715.6 | 2711.4 | 2698.9 | 2682.3 | 2665.5 | 2653.0 | 2640.5 | 2632.2 | 2619.7 |
| 15° | 2694.7 | 2673.8 | 2648.9 | 2636.4 | 2623.9 | 2611.4 | 2590.6 | 2573.9 | 2561.5 | 2549.0 | 2536.4 |
| 17.5° | 2615.6 | 2590.6 | 2569.8 | 2557.3 | 2549.0 | 2528.1 | 2511.4 | 2490.6 | 2478.1 | 2465.6 | 2453.1 |
| 20° | 2519.7 | 2498.9 | 2469.8 | 2457.3 | 2453.1 | 2436.5 | 2415.7 | 2407.4 | 2390.6 | 2378.1 | 2369.8 |
| 22.5° | 2411.5 | 2390.6 | 2365.6 | 2357.3 | 2340.7 | 2332.3 | 2311.5 | 2303.2 | 2294.9 | 2282.4 | 2278.2 |
| 25° | 2290.7 | 2269.9 | 2249.1 | 2244.8 | 2232.3 | 2224.0 | 2211.5 | 2199.1 | 2199.1 | 2186.6 | 2186.6 |
| 27.5° | 2165.8 | 2145.0 | 2128.3 | 2120.0 | 2115.8 | 2107.5 | 2094.9 | 2090.7 | 2086.6 | 2082.4 | 2082.4 |
| 30° | 2032.5 | 2007.5 | 1999.2 | 1995.0 | 1990.9 | 1982.5 | 1978.4 | 1970.1 | 1974.2 | 1978.4 | 1974.2 |
| 32.5° | 1890.9 | 1882.5 | 1865.9 | 1857.6 | 1861.7 | 1857.6 | 1849.3 | 1857.6 | 1853.4 | 1861.7 | 1865.9 |
| 35° | 1753.4 | 1745.1 | 1736.8 | 1736.8 | 1728.4 | 1728.4 | 1728.4 | 1732.6 | 1740.9 | 1745.1 | 1753.4 |
| 37.5° | 1620.1 | 1607.6 | 1603.5 | 1599.3 | 1603.5 | 1603.5 | 1603.5 | 1611.8 | 1620.1 | 1628.5 | 1640.9 |
| 40° | 1478.5 | 1470.2 | 1470.2 | 1470.2 | 1470.2 | 1482.7 | 1478.5 | 1486.8 | 1495.2 | 1507.7 | 1520.1 |
| 42.5° | 1345.2 | 1345.2 | 1349.4 | 1349.4 | 1349.4 | 1349.4 | 1357.7 | 1370.2 | 1382.8 | 1395.3 | 1407.8 |
| 45° | 1220.3 | 1220.3 | 1220.3 | 1228.6 | 1228.6 | 1232.9 | 1249.5 | 1257.8 | 1266.2 | 1278.7 | 1291.1 |
| 47.5° | 1103.7 | 1103.7 | 1107.9 | 1112.1 | 1116.2 | 1124.6 | 1132.9 | 1145.4 | 1157.8 | 1166.2 | 1178.7 |
| 50° | 995.4 | 999.6 | 1007.9 | 1016.2 | 1016.2 | 1020.4 | 1032.9 | 1041.2 | 1049.5 | 1062.0 | 1066.2 |
| 52.5° | 891.3 | 899.6 | 907.9 | 912.1 | 916.2 | 924.6 | 928.7 | 941.2 | 945.5 | 958.0 | 962.1 |
| 55° | 795.4 | 799.7 | 812.2 | 816.4 | 816.4 | 824.7 | 833.0 | 841.3 | 853.8 | 853.8 | 862.1 |
| 57.5° | 708.0 | 712.2 | 720.5 | 724.7 | 720.5 | 733.0 | 737.2 | 745.5 | 749.7 | 758.0 | 762.1 |
| 60° | 620.5 | 628.9 | 633.0 | 633.0 | 637.2 | 641.3 | 649.7 | 649.7 | 658.1 | 666.4 | 666.4 |
| 62.5° | 537.3 | 541.5 | 545.6 | 549.8 | 554.0 | 549.8 | 562.3 | 562.3 | 570.6 | 574.8 | 583.1 |
| 65° | 458.1 | 462.3 | 462.3 | 466.4 | 466.4 | 470.6 | 470.6 | 474.8 | 478.9 | 487.3 | 491.4 |
| 67.5° | 379.1 | 379.1 | 379.1 | 383.2 | 379.1 | 383.2 | 383.2 | 387.4 | 387.4 | 395.7 | 399.9 |
| 70° | 308.2 | 304.0 | 299.9 | 299.9 | 299.9 | 299.9 | 295.7 | 299.9 | 299.9 | 304.0 | 304.0 |
| 72.5° | 237.4 | 233.3 | 229.1 | 225.0 | 225.0 | 220.8 | 216.5 | 220.8 | 220.8 | 225.0 | 225.0 |
| 75° | 179.1 | 170.7 | 170.7 | 170.7 | 166.6 | 166.6 | 166.6 | 170.7 | 170.7 | 170.7 | 174.9 |
| 77.5° | 133.3 | 133.3 | 129.1 | 129.1 | 129.1 | 133.3 | 133.3 | 137.4 | 137.4 | 137.4 | 137.4 |
| 80° | 100.0 | 104.2 | 104.2 | 104.2 | 104.2 | 108.3 | 108.3 | 108.3 | 108.3 | 112.5 | 112.5 |
| 82.5° | 75.0 | 75.0 | 75.0 | 75.0 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 |
| 85° | 45.8 | 49.9 | 49.9 | 45.8 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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: P585203

CATALOG NUMBER: HC880D010-HM86080827-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 | 2932.1 |
| 2.5° | 2882.1 | 2882.1 | 2882.1 | 2882.1 | 2878.0 | 2878.0 | 2878.0 | 2873.8 |
| 5° | 2819.6 | 2819.6 | 2819.6 | 2811.3 | 2815.4 | 2815.4 | 2807.1 | 2811.3 |
| 7.5° | 2757.2 | 2753.0 | 2748.8 | 2748.8 | 2744.7 | 2740.5 | 2736.4 | 2740.5 |
| 10° | 2686.4 | 2673.8 | 2673.8 | 2669.7 | 2669.7 | 2661.3 | 2661.3 | 2665.5 |
| 12.5° | 2607.2 | 2598.9 | 2598.9 | 2594.8 | 2590.6 | 2586.4 | 2582.3 | 2582.3 |
| 15° | 2528.1 | 2519.7 | 2515.6 | 2511.4 | 2507.2 | 2498.9 | 2503.1 | 2498.9 |
| 17.5° | 2449.0 | 2436.5 | 2436.5 | 2432.3 | 2428.2 | 2419.9 | 2419.9 | 2415.7 |
| 20° | 2357.3 | 2353.1 | 2344.8 | 2349.0 | 2344.8 | 2336.5 | 2332.3 | 2332.3 |
| 22.5° | 2265.8 | 2265.8 | 2261.6 | 2261.6 | 2257.4 | 2253.3 | 2249.1 | 2249.1 |
| 25° | 2178.2 | 2174.1 | 2178.2 | 2178.2 | 2165.8 | 2165.8 | 2165.8 | 2169.9 |
| 27.5° | 2078.3 | 2082.4 | 2078.3 | 2078.3 | 2078.3 | 2078.3 | 2082.4 | 2078.3 |
| 30° | 1978.4 | 1978.4 | 1978.4 | 1982.5 | 1990.9 | 1986.7 | 1986.7 | 1982.5 |
| 32.5° | 1870.1 | 1874.2 | 1874.2 | 1878.4 | 1882.5 | 1890.9 | 1890.9 | 1895.0 |
| 35° | 1761.7 | 1770.1 | 1774.2 | 1770.1 | 1782.5 | 1782.5 | 1790.9 | 1790.9 |
| 37.5° | 1649.3 | 1653.4 | 1661.7 | 1665.9 | 1674.3 | 1678.5 | 1682.7 | 1682.7 |
| 40° | 1528.6 | 1545.2 | 1549.4 | 1553.5 | 1566.0 | 1566.0 | 1570.2 | 1578.5 |
| 42.5° | 1416.1 | 1432.7 | 1436.9 | 1441.1 | 1449.4 | 1461.9 | 1457.7 | 1466.0 |
| 45° | 1307.8 | 1320.3 | 1324.4 | 1328.6 | 1341.1 | 1345.2 | 1345.2 | 1357.7 |
| 47.5° | 1191.1 | 1199.5 | 1203.6 | 1211.9 | 1220.3 | 1228.6 | 1237.0 | 1232.9 |
| 50° | 1074.5 | 1087.0 | 1095.4 | 1099.6 | 1112.1 | 1116.2 | 1120.4 | 1124.6 |
| 52.5° | 970.5 | 978.8 | 982.9 | 987.1 | 999.6 | 1003.8 | 1007.9 | 1016.2 |
| 55° | 870.5 | 874.6 | 883.0 | 878.8 | 891.3 | 895.4 | 899.6 | 907.9 |
| 57.5° | 770.5 | 774.6 | 778.8 | 778.8 | 787.1 | 795.4 | 799.7 | 803.9 |
| 60° | 674.8 | 683.1 | 687.2 | 687.2 | 687.2 | 695.6 | 695.6 | 695.6 |
| 62.5° | 587.2 | 587.2 | 591.4 | 591.4 | 599.7 | 599.7 | 599.7 | 599.7 |
| 65° | 495.6 | 499.7 | 503.9 | 503.9 | 512.3 | 508.2 | 516.5 | 512.3 |
| 67.5° | 399.9 | 399.9 | 408.2 | 408.2 | 404.0 | 408.2 | 408.2 | 408.2 |
| 70° | 304.0 | 304.0 | 308.2 | 308.2 | 308.2 | 308.2 | 308.2 | 308.2 |
| 72.5° | 225.0 | 225.0 | 225.0 | 229.1 | 225.0 | 225.0 | 229.1 | 225.0 |
| 75° | 174.9 | 174.9 | 174.9 | 174.9 | 174.9 | 174.9 | 174.9 | 174.9 |
| 77.5° | 137.4 | 137.4 | 141.6 | 141.6 | 141.6 | 141.6 | 141.6 | 141.6 |
| 80° | 112.5 | 112.5 | 112.5 | 112.5 | 116.6 | 112.5 | 112.5 | 112.5 |
| 82.5° | 83.3 | 79.2 | 83.3 | 79.2 | 83.3 | 83.3 | 83.3 | 83.3 |
| 85° | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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)