

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: P585303

Luminaire Tested: **HC880D010-HM86080935-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585303
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: HC880D010-HM86080935-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5497.7 lumens
Efficiency: N/A
Efficacy: 78.5 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

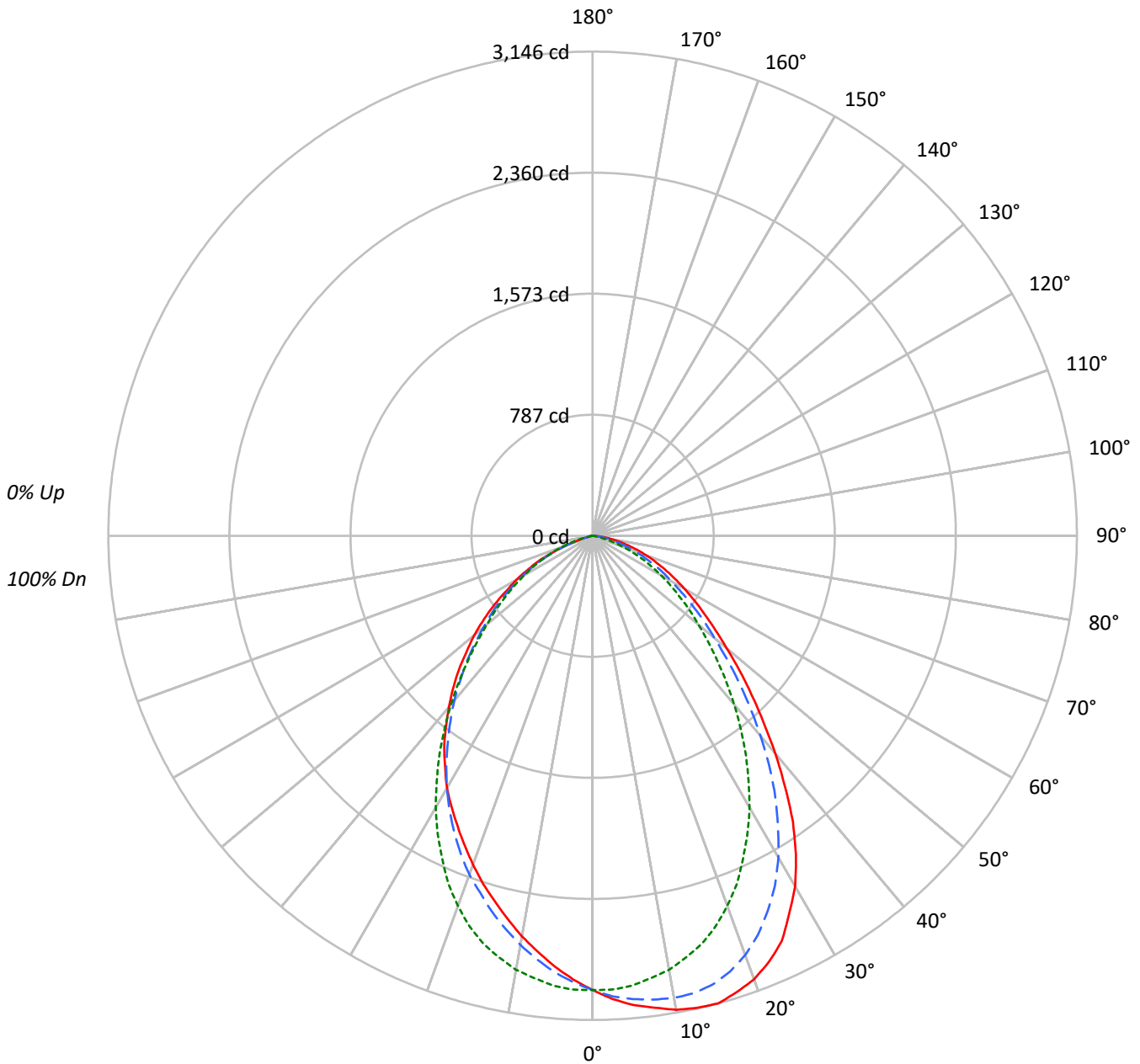
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

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° | 91013 | 91013 | 91013 |
| 5° | 94775 | 90816 | 86990 |
| 10° | 97944 | 89653 | 82748 |
| 15° | 100420 | 87606 | 78450 |
| 20° | 100618 | 83968 | 74560 |
| 25° | 98918 | 78657 | 70702 |
| 30° | 93628 | 72577 | 67393 |
| 35° | 85366 | 65267 | 63276 |
| 40° | 74232 | 57539 | 58429 |
| 45° | 63682 | 49828 | 53487 |
| 50° | 54392 | 42964 | 48045 |
| 55° | 47676 | 36999 | 41746 |
| 60° | 42443 | 31558 | 35104 |
| 65° | 37657 | 25749 | 28004 |
| 70° | 33413 | 19096 | 15904 |
| 75° | 27867 | 9984 | 4730 |
| 80° | 21931 | 3125 | 781 |
| 85° | 15603 | 1557 | 0 |



TEST NUMBER: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 278.1 | 5.1 |
| 10°-20° | 779.5 | 14.2 |
| 20°-30° | 1103.3 | 20.1 |
| 30°-40° | 1154.3 | 21.0 |
| 40°-50° | 962.7 | 17.5 |
| 50°-60° | 682.7 | 12.4 |
| 60°-70° | 393.2 | 7.2 |
| 70°-80° | 126.5 | 2.3 |
| 80°-90° | 17.4 | 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° | 2160.9 | 39.3 |
| 0°-40° | 3315.1 | 60.3 |
| 0°-60° | 4960.6 | 90.2 |
| 0°-90° | 5497.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5497.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2952 | 2952 | 2952 | 2952 | 2952 | |
| 5° | 3062 | 3022 | 2934 | 2846 | 2810 | 294 |
| 15° | 3146 | 3018 | 2744 | 2528 | 2457 | 885 |
| 25° | 2907 | 2691 | 2312 | 2126 | 2078 | 1327 |
| 35° | 2268 | 2069 | 1734 | 1641 | 1681 | 1406 |
| 45° | 1460 | 1341 | 1143 | 1156 | 1226 | 1132 |
| 55° | 887 | 794 | 688 | 724 | 776 | 801 |
| 65° | 516 | 432 | 353 | 353 | 384 | 516 |
| 75° | 234 | 172 | 84 | 40 | 40 | 253 |
| 85° | 44 | 22 | 4 | 0 | 0 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 |
| 2.5° | 3013.3 | 3008.9 | 3004.5 | 3008.9 | 3004.5 | 3008.9 | 3004.5 | 3004.5 | 3000.1 | 2995.7 | 2995.7 |
| 5° | 3061.8 | 3057.4 | 3057.4 | 3057.4 | 3053.0 | 3048.6 | 3048.6 | 3044.2 | 3035.3 | 3030.9 | 3022.1 |
| 7.5° | 3092.7 | 3097.1 | 3097.1 | 3097.1 | 3088.3 | 3088.3 | 3079.5 | 3070.6 | 3061.8 | 3053.0 | 3039.8 |
| 10° | 3128.0 | 3128.0 | 3123.6 | 3119.1 | 3110.3 | 3105.9 | 3101.5 | 3092.7 | 3079.5 | 3061.8 | 3048.6 |
| 12.5° | 3141.2 | 3141.2 | 3136.8 | 3128.0 | 3123.6 | 3119.1 | 3114.7 | 3101.5 | 3083.9 | 3061.8 | 3044.2 |
| 15° | 3145.6 | 3136.8 | 3132.4 | 3128.0 | 3119.1 | 3105.9 | 3105.9 | 3088.3 | 3066.2 | 3039.8 | 3017.7 |
| 17.5° | 3110.3 | 3114.7 | 3105.9 | 3097.1 | 3083.9 | 3075.0 | 3061.8 | 3048.6 | 3022.1 | 2991.2 | 2969.2 |
| 20° | 3066.2 | 3061.8 | 3057.4 | 3044.2 | 3026.5 | 3022.1 | 3008.9 | 2986.8 | 2964.8 | 2929.5 | 2898.5 |
| 22.5° | 2995.7 | 2991.2 | 2982.4 | 2973.6 | 2956.0 | 2947.1 | 2933.9 | 2907.3 | 2876.5 | 2841.2 | 2805.9 |
| 25° | 2907.3 | 2898.5 | 2885.3 | 2867.6 | 2854.4 | 2845.6 | 2828.0 | 2801.5 | 2766.2 | 2726.5 | 2691.2 |
| 27.5° | 2766.2 | 2779.4 | 2770.6 | 2744.2 | 2730.9 | 2713.3 | 2708.9 | 2673.6 | 2642.7 | 2603.0 | 2563.2 |
| 30° | 2629.5 | 2629.5 | 2616.2 | 2603.0 | 2581.0 | 2567.6 | 2550.0 | 2523.5 | 2492.7 | 2444.1 | 2413.3 |
| 32.5° | 2457.4 | 2453.0 | 2435.3 | 2430.9 | 2413.3 | 2386.8 | 2382.4 | 2347.1 | 2316.2 | 2280.9 | 2241.1 |
| 35° | 2267.7 | 2258.9 | 2241.1 | 2227.9 | 2219.1 | 2206.0 | 2192.6 | 2161.8 | 2130.9 | 2095.6 | 2069.1 |
| 37.5° | 2051.5 | 2051.5 | 2047.1 | 2025.0 | 2016.2 | 2007.4 | 1994.2 | 1963.3 | 1945.6 | 1910.4 | 1883.9 |
| 40° | 1844.1 | 1839.7 | 1826.5 | 1822.0 | 1813.2 | 1800.0 | 1791.2 | 1773.5 | 1747.1 | 1720.6 | 1694.1 |
| 42.5° | 1641.2 | 1645.6 | 1628.0 | 1632.4 | 1614.8 | 1605.9 | 1601.5 | 1575.1 | 1561.8 | 1535.4 | 1513.2 |
| 45° | 1460.3 | 1455.9 | 1447.1 | 1442.6 | 1433.8 | 1425.0 | 1416.2 | 1402.9 | 1380.9 | 1354.4 | 1341.2 |
| 47.5° | 1292.7 | 1279.5 | 1279.5 | 1275.0 | 1270.6 | 1253.0 | 1248.6 | 1235.3 | 1222.1 | 1195.7 | 1177.9 |
| 50° | 1133.8 | 1133.8 | 1133.8 | 1129.4 | 1116.2 | 1111.8 | 1102.9 | 1089.7 | 1076.5 | 1058.8 | 1032.4 |
| 52.5° | 1005.9 | 1005.9 | 1005.9 | 1001.5 | 983.8 | 979.4 | 975.0 | 957.4 | 939.7 | 926.5 | 908.9 |
| 55° | 886.8 | 891.2 | 886.8 | 878.0 | 864.8 | 864.8 | 851.4 | 842.6 | 825.0 | 811.7 | 794.1 |
| 57.5° | 785.3 | 785.3 | 776.5 | 772.0 | 763.2 | 758.8 | 750.0 | 741.2 | 719.1 | 705.9 | 683.8 |
| 60° | 688.2 | 683.8 | 683.8 | 675.0 | 666.2 | 657.4 | 653.0 | 639.7 | 630.9 | 608.9 | 591.2 |
| 62.5° | 600.0 | 600.0 | 591.2 | 591.2 | 573.6 | 573.6 | 569.2 | 555.9 | 542.7 | 520.5 | 511.7 |
| 65° | 516.1 | 516.1 | 511.7 | 507.3 | 494.1 | 489.7 | 485.3 | 472.0 | 458.8 | 445.6 | 432.3 |
| 67.5° | 441.2 | 441.2 | 432.3 | 427.9 | 419.1 | 414.7 | 405.9 | 397.0 | 383.8 | 370.6 | 357.4 |
| 70° | 370.6 | 366.2 | 361.8 | 357.4 | 348.5 | 344.1 | 335.3 | 326.5 | 313.2 | 304.4 | 291.2 |
| 72.5° | 300.0 | 300.0 | 295.6 | 286.8 | 282.4 | 278.0 | 273.6 | 264.7 | 251.5 | 238.3 | 229.4 |
| 75° | 233.9 | 233.9 | 233.9 | 225.0 | 216.2 | 211.8 | 211.8 | 203.0 | 194.2 | 180.8 | 172.0 |
| 77.5° | 180.8 | 176.4 | 172.0 | 172.0 | 163.2 | 158.9 | 154.5 | 150.1 | 136.7 | 132.3 | 123.5 |
| 80° | 123.5 | 127.9 | 123.5 | 119.1 | 114.7 | 110.3 | 110.3 | 101.4 | 97.0 | 88.2 | 79.4 |
| 82.5° | 83.8 | 79.4 | 79.4 | 75.0 | 75.0 | 70.6 | 70.6 | 61.7 | 57.3 | 52.9 | 48.5 |
| 85° | 44.1 | 44.1 | 39.7 | 39.7 | 39.7 | 35.3 | 35.3 | 30.9 | 30.9 | 26.5 | 22.1 |
| 87.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 8.8 | 8.8 | 8.8 |
| 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: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 |
| 2.5° | 2991.2 | 2982.4 | 2978.0 | 2978.0 | 2973.6 | 2969.2 | 2964.8 | 2960.4 | 2951.5 | 2951.5 | 2942.7 |
| 5° | 3013.3 | 3004.5 | 3000.1 | 2986.8 | 2978.0 | 2978.0 | 2960.4 | 2956.0 | 2942.7 | 2933.9 | 2925.1 |
| 7.5° | 3030.9 | 3013.3 | 3000.1 | 2986.8 | 2978.0 | 2969.2 | 2951.5 | 2933.9 | 2916.3 | 2898.5 | 2889.7 |
| 10° | 3030.9 | 3013.3 | 2991.2 | 2969.2 | 2960.4 | 2951.5 | 2929.5 | 2902.9 | 2880.9 | 2863.2 | 2841.2 |
| 12.5° | 3022.1 | 2995.7 | 2969.2 | 2951.5 | 2933.9 | 2920.7 | 2894.1 | 2867.6 | 2841.2 | 2805.9 | 2788.3 |
| 15° | 2995.7 | 2960.4 | 2933.9 | 2902.9 | 2889.7 | 2867.6 | 2845.6 | 2805.9 | 2775.0 | 2744.2 | 2722.1 |
| 17.5° | 2942.7 | 2898.5 | 2867.6 | 2836.8 | 2814.7 | 2801.5 | 2766.2 | 2730.9 | 2695.6 | 2660.4 | 2633.9 |
| 20° | 2863.2 | 2823.5 | 2788.3 | 2748.6 | 2730.9 | 2713.3 | 2669.2 | 2633.9 | 2598.6 | 2558.8 | 2532.3 |
| 22.5° | 2766.2 | 2726.5 | 2678.0 | 2647.1 | 2620.7 | 2598.6 | 2558.8 | 2519.1 | 2483.8 | 2448.5 | 2413.3 |
| 25° | 2647.1 | 2607.4 | 2563.2 | 2514.7 | 2497.1 | 2475.0 | 2430.9 | 2391.2 | 2351.5 | 2311.8 | 2280.9 |
| 27.5° | 2519.1 | 2466.2 | 2430.9 | 2378.0 | 2360.3 | 2338.3 | 2289.8 | 2245.7 | 2210.4 | 2179.4 | 2144.1 |
| 30° | 2364.7 | 2325.0 | 2276.5 | 2227.9 | 2210.4 | 2188.2 | 2148.5 | 2108.8 | 2073.5 | 2038.3 | 2003.0 |
| 32.5° | 2197.0 | 2157.3 | 2108.8 | 2073.5 | 2047.1 | 2029.4 | 1989.7 | 1954.5 | 1919.2 | 1883.9 | 1852.9 |
| 35° | 2020.6 | 1976.5 | 1941.2 | 1905.8 | 1883.9 | 1861.7 | 1822.0 | 1791.2 | 1764.7 | 1733.8 | 1703.0 |
| 37.5° | 1839.7 | 1808.8 | 1773.5 | 1733.8 | 1711.8 | 1694.1 | 1663.3 | 1628.0 | 1605.9 | 1579.5 | 1557.4 |
| 40° | 1663.3 | 1628.0 | 1597.1 | 1561.8 | 1544.2 | 1531.0 | 1500.0 | 1473.5 | 1451.5 | 1429.4 | 1416.2 |
| 42.5° | 1482.3 | 1451.5 | 1420.6 | 1398.5 | 1385.3 | 1372.1 | 1350.0 | 1319.1 | 1305.9 | 1283.9 | 1270.6 |
| 45° | 1314.7 | 1288.3 | 1266.2 | 1235.3 | 1226.5 | 1217.7 | 1191.1 | 1169.1 | 1155.9 | 1142.6 | 1133.8 |
| 47.5° | 1155.9 | 1138.2 | 1111.8 | 1094.1 | 1080.9 | 1072.1 | 1054.4 | 1036.8 | 1023.5 | 1014.7 | 1005.9 |
| 50° | 1019.1 | 997.1 | 979.4 | 961.8 | 953.0 | 939.7 | 922.1 | 913.3 | 904.5 | 895.6 | 895.6 |
| 52.5° | 891.2 | 869.2 | 851.4 | 838.2 | 829.4 | 820.6 | 807.3 | 802.9 | 794.1 | 794.1 | 789.7 |
| 55° | 772.0 | 758.8 | 741.2 | 723.5 | 719.1 | 714.7 | 705.9 | 697.1 | 692.7 | 688.2 | 692.7 |
| 57.5° | 670.6 | 657.4 | 639.7 | 626.5 | 622.1 | 617.7 | 613.3 | 604.4 | 600.0 | 600.0 | 600.0 |
| 60° | 578.0 | 564.7 | 551.5 | 538.3 | 538.3 | 529.5 | 525.1 | 520.5 | 516.1 | 511.7 | 511.7 |
| 62.5° | 494.1 | 480.8 | 467.6 | 458.8 | 454.4 | 450.0 | 441.2 | 436.7 | 432.3 | 432.3 | 427.9 |
| 65° | 419.1 | 401.5 | 397.0 | 383.8 | 379.4 | 375.0 | 370.6 | 361.8 | 357.4 | 352.9 | 348.5 |
| 67.5° | 344.1 | 335.3 | 322.1 | 313.2 | 308.8 | 304.4 | 300.0 | 291.2 | 286.8 | 282.4 | 273.6 |
| 70° | 278.0 | 269.1 | 260.3 | 251.5 | 247.1 | 242.7 | 233.9 | 225.0 | 220.6 | 211.8 | 198.6 |
| 72.5° | 216.2 | 207.4 | 198.6 | 189.8 | 185.2 | 180.8 | 172.0 | 163.2 | 154.5 | 145.5 | 136.7 |
| 75° | 163.2 | 154.5 | 141.1 | 132.3 | 127.9 | 127.9 | 114.7 | 105.9 | 97.0 | 83.8 | 75.0 |
| 77.5° | 114.7 | 101.4 | 97.0 | 88.2 | 83.8 | 75.0 | 66.2 | 57.3 | 48.5 | 44.1 | 35.3 |
| 80° | 75.0 | 66.2 | 57.3 | 52.9 | 48.5 | 44.1 | 39.7 | 30.9 | 22.1 | 17.6 | 13.2 |
| 82.5° | 44.1 | 39.7 | 35.3 | 30.9 | 26.5 | 22.1 | 17.6 | 17.6 | 13.2 | 8.8 | 4.4 |
| 85° | 22.1 | 17.6 | 13.2 | 13.2 | 8.8 | 8.8 | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 |
| 87.5° | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 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: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 |
| 2.5° | 2938.3 | 2933.9 | 2929.5 | 2925.1 | 2925.1 | 2916.3 | 2916.3 | 2911.9 | 2902.9 | 2898.5 | 2898.5 |
| 5° | 2911.9 | 2898.5 | 2889.7 | 2885.3 | 2880.9 | 2867.6 | 2863.2 | 2854.4 | 2845.6 | 2836.8 | 2832.4 |
| 7.5° | 2872.1 | 2850.0 | 2841.2 | 2836.8 | 2823.5 | 2810.3 | 2801.5 | 2788.3 | 2775.0 | 2761.8 | 2757.4 |
| 10° | 2823.5 | 2801.5 | 2779.4 | 2770.6 | 2757.4 | 2748.6 | 2730.9 | 2713.3 | 2700.0 | 2686.8 | 2673.6 |
| 12.5° | 2761.8 | 2735.3 | 2713.3 | 2704.5 | 2691.2 | 2673.6 | 2647.1 | 2638.3 | 2616.2 | 2607.4 | 2589.8 |
| 15° | 2691.2 | 2660.4 | 2638.3 | 2625.1 | 2611.8 | 2585.4 | 2567.6 | 2550.0 | 2527.9 | 2519.1 | 2501.5 |
| 17.5° | 2603.0 | 2567.6 | 2545.6 | 2532.3 | 2523.5 | 2501.5 | 2475.0 | 2453.0 | 2430.9 | 2422.1 | 2408.9 |
| 20° | 2497.1 | 2475.0 | 2444.1 | 2430.9 | 2422.1 | 2395.6 | 2369.2 | 2360.3 | 2342.7 | 2325.0 | 2311.8 |
| 22.5° | 2378.0 | 2355.9 | 2325.0 | 2311.8 | 2307.4 | 2285.4 | 2263.3 | 2250.1 | 2236.7 | 2223.5 | 2210.4 |
| 25° | 2254.5 | 2227.9 | 2201.6 | 2192.6 | 2183.8 | 2166.2 | 2148.5 | 2139.7 | 2126.5 | 2117.7 | 2108.8 |
| 27.5° | 2122.1 | 2095.6 | 2073.5 | 2060.3 | 2051.5 | 2038.3 | 2029.4 | 2020.6 | 2011.8 | 2003.0 | 1998.6 |
| 30° | 1980.9 | 1954.5 | 1936.8 | 1928.0 | 1919.2 | 1914.8 | 1901.4 | 1897.0 | 1892.7 | 1883.9 | 1888.3 |
| 32.5° | 1839.7 | 1817.6 | 1800.0 | 1786.8 | 1786.8 | 1777.9 | 1773.5 | 1773.5 | 1769.1 | 1769.1 | 1769.1 |
| 35° | 1685.3 | 1672.1 | 1658.9 | 1654.4 | 1650.0 | 1645.6 | 1641.2 | 1645.6 | 1641.2 | 1645.6 | 1650.0 |
| 37.5° | 1544.2 | 1531.0 | 1522.0 | 1517.6 | 1513.2 | 1517.6 | 1513.2 | 1513.2 | 1517.6 | 1526.4 | 1531.0 |
| 40° | 1398.5 | 1389.7 | 1380.9 | 1385.3 | 1380.9 | 1380.9 | 1380.9 | 1394.1 | 1398.5 | 1402.9 | 1407.4 |
| 42.5° | 1261.8 | 1253.0 | 1248.6 | 1248.6 | 1253.0 | 1248.6 | 1257.4 | 1261.8 | 1270.6 | 1283.9 | 1292.7 |
| 45° | 1129.4 | 1125.0 | 1125.0 | 1129.4 | 1125.0 | 1133.8 | 1133.8 | 1142.6 | 1155.9 | 1164.7 | 1173.5 |
| 47.5° | 1005.9 | 1005.9 | 1005.9 | 1010.3 | 1010.3 | 1014.7 | 1023.5 | 1028.0 | 1036.8 | 1045.6 | 1054.4 |
| 50° | 891.2 | 895.6 | 900.0 | 900.0 | 900.0 | 908.9 | 917.7 | 922.1 | 926.5 | 930.9 | 944.2 |
| 52.5° | 789.7 | 794.1 | 794.1 | 798.5 | 802.9 | 807.3 | 811.7 | 820.6 | 825.0 | 833.8 | 838.2 |
| 55° | 692.7 | 692.7 | 701.5 | 705.9 | 705.9 | 705.9 | 714.7 | 714.7 | 723.5 | 727.9 | 736.8 |
| 57.5° | 600.0 | 604.4 | 604.4 | 608.9 | 608.9 | 613.3 | 617.7 | 622.1 | 626.5 | 630.9 | 635.3 |
| 60° | 511.7 | 511.7 | 511.7 | 516.1 | 520.5 | 525.1 | 520.5 | 529.5 | 529.5 | 538.3 | 542.7 |
| 62.5° | 427.9 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 432.3 | 436.7 | 441.2 | 445.6 | 450.0 |
| 65° | 348.5 | 348.5 | 348.5 | 344.1 | 348.5 | 344.1 | 348.5 | 352.9 | 352.9 | 357.4 | 361.8 |
| 67.5° | 269.1 | 269.1 | 260.3 | 260.3 | 264.7 | 264.7 | 264.7 | 264.7 | 260.3 | 269.1 | 269.1 |
| 70° | 194.2 | 189.8 | 185.2 | 180.8 | 180.8 | 176.4 | 176.4 | 172.0 | 172.0 | 172.0 | 172.0 |
| 72.5° | 127.9 | 119.1 | 110.3 | 105.9 | 101.4 | 101.4 | 92.6 | 88.2 | 92.6 | 92.6 | 92.6 |
| 75° | 66.2 | 57.3 | 52.9 | 48.5 | 44.1 | 44.1 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 |
| 77.5° | 26.5 | 22.1 | 17.6 | 17.6 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 80° | 8.8 | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 82.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 85° | 4.4 | 0.0 | 0.0 | 4.4 | 0.0 | 4.4 | 4.4 | 4.4 | 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: P585303

CATALOG NUMBER: HC880D010-HM86080935-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 | 2951.5 |
| 2.5° | 2894.1 | 2894.1 | 2889.7 | 2894.1 | 2885.3 | 2889.7 | 2885.3 | 2885.3 |
| 5° | 2828.0 | 2819.1 | 2819.1 | 2819.1 | 2814.7 | 2814.7 | 2810.3 | 2810.3 |
| 7.5° | 2748.6 | 2744.2 | 2739.7 | 2735.3 | 2730.9 | 2726.5 | 2726.5 | 2726.5 |
| 10° | 2669.2 | 2660.4 | 2660.4 | 2655.9 | 2647.1 | 2642.7 | 2642.7 | 2642.7 |
| 12.5° | 2576.6 | 2572.0 | 2567.6 | 2567.6 | 2550.0 | 2554.4 | 2550.0 | 2550.0 |
| 15° | 2488.2 | 2483.8 | 2483.8 | 2470.6 | 2461.8 | 2461.8 | 2461.8 | 2457.4 |
| 17.5° | 2395.6 | 2391.2 | 2386.8 | 2378.0 | 2369.2 | 2369.2 | 2364.7 | 2369.2 |
| 20° | 2298.6 | 2294.2 | 2285.4 | 2285.4 | 2280.9 | 2276.5 | 2267.7 | 2272.1 |
| 22.5° | 2201.6 | 2192.6 | 2188.2 | 2188.2 | 2183.8 | 2183.8 | 2175.0 | 2175.0 |
| 25° | 2100.0 | 2095.6 | 2091.2 | 2095.6 | 2086.8 | 2086.8 | 2078.0 | 2078.0 |
| 27.5° | 1994.2 | 1989.7 | 1989.7 | 1989.7 | 1985.3 | 1989.7 | 1985.3 | 1985.3 |
| 30° | 1888.3 | 1888.3 | 1883.9 | 1883.9 | 1888.3 | 1883.9 | 1888.3 | 1892.7 |
| 32.5° | 1773.5 | 1773.5 | 1777.9 | 1777.9 | 1782.4 | 1782.4 | 1782.4 | 1782.4 |
| 35° | 1654.4 | 1663.3 | 1663.3 | 1667.7 | 1672.1 | 1676.5 | 1676.5 | 1680.9 |
| 37.5° | 1544.2 | 1548.6 | 1553.0 | 1557.4 | 1566.2 | 1566.2 | 1566.2 | 1566.2 |
| 40° | 1425.0 | 1429.4 | 1438.2 | 1433.8 | 1451.5 | 1455.9 | 1451.5 | 1451.5 |
| 42.5° | 1301.5 | 1310.3 | 1314.7 | 1323.6 | 1328.0 | 1336.8 | 1341.2 | 1341.2 |
| 45° | 1186.7 | 1191.1 | 1200.1 | 1208.9 | 1213.3 | 1226.5 | 1226.5 | 1226.5 |
| 47.5° | 1067.6 | 1076.5 | 1080.9 | 1089.7 | 1094.1 | 1107.3 | 1111.8 | 1107.3 |
| 50° | 953.0 | 961.8 | 970.6 | 970.6 | 983.8 | 988.3 | 997.1 | 1001.5 |
| 52.5° | 842.6 | 847.0 | 855.8 | 860.4 | 869.2 | 878.0 | 882.4 | 886.8 |
| 55° | 736.8 | 741.2 | 750.0 | 750.0 | 763.2 | 767.6 | 776.5 | 776.5 |
| 57.5° | 639.7 | 644.1 | 653.0 | 648.5 | 657.4 | 666.2 | 666.2 | 661.8 |
| 60° | 547.1 | 547.1 | 547.1 | 555.9 | 560.3 | 564.7 | 569.2 | 569.2 |
| 62.5° | 450.0 | 458.8 | 463.2 | 463.2 | 467.6 | 472.0 | 472.0 | 467.6 |
| 65° | 361.8 | 370.6 | 375.0 | 375.0 | 379.4 | 379.4 | 379.4 | 383.8 |
| 67.5° | 273.6 | 273.6 | 273.6 | 278.0 | 273.6 | 273.6 | 273.6 | 273.6 |
| 70° | 172.0 | 172.0 | 172.0 | 172.0 | 167.6 | 172.0 | 172.0 | 176.4 |
| 72.5° | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 |
| 75° | 39.7 | 39.7 | 39.7 | 44.1 | 39.7 | 39.7 | 39.7 | 39.7 |
| 77.5° | 17.6 | 13.2 | 17.6 | 17.6 | 13.2 | 13.2 | 13.2 | 13.2 |
| 80° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 82.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 85° | 0.0 | 4.4 | 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)