

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: P585109

Luminaire Tested: **HC860D010-HM86080840-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080840-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6208.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

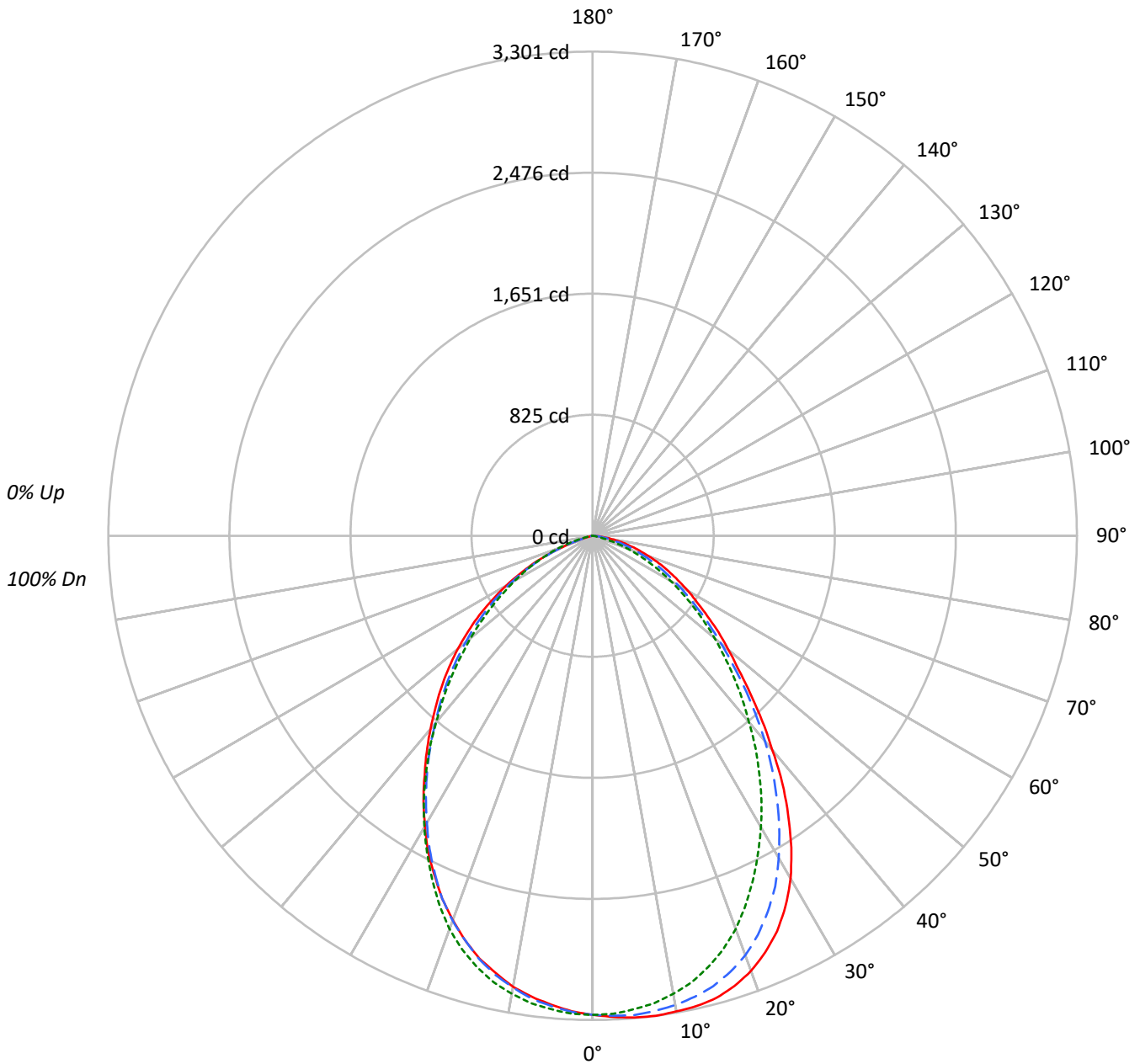
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 84 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 100727 | 100727 | 100727 |
| 5° | 102059 | 100304 | 99356 |
| 10° | 103101 | 99278 | 97775 |
| 15° | 104143 | 97180 | 95230 |
| 20° | 103614 | 93596 | 91450 |
| 25° | 101198 | 87993 | 86806 |
| 30° | 96120 | 81682 | 81368 |
| 35° | 87508 | 74532 | 75194 |
| 40° | 76720 | 66709 | 69168 |
| 45° | 66181 | 59339 | 63521 |
| 50° | 57956 | 52094 | 57534 |
| 55° | 51348 | 44783 | 50643 |
| 60° | 46267 | 37657 | 41962 |
| 65° | 41685 | 30229 | 32141 |
| 70° | 36560 | 22017 | 17698 |
| 75° | 31180 | 11438 | 4670 |
| 80° | 24009 | 3090 | 781 |
| 85° | 15426 | 0 | 0 |



TEST NUMBER: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 308.2 | 5.0 |
| 10°-20° | 866.4 | 14.0 |
| 20°-30° | 1229.7 | 19.8 |
| 30°-40° | 1294.4 | 20.9 |
| 40°-50° | 1101.2 | 17.7 |
| 50°-60° | 795.8 | 12.8 |
| 60°-70° | 452.6 | 7.3 |
| 70°-80° | 142.6 | 2.3 |
| 80°-90° | 17.3 | 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° | 2404.3 | 38.7 |
| 0°-40° | 3698.8 | 59.6 |
| 0°-60° | 5595.7 | 90.1 |
| 0°-90° | 6208.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6208.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3266 | 3266 | 3266 | 3266 | 3266 | |
| 5° | 3297 | 3280 | 3240 | 3219 | 3210 | 315 |
| 15° | 3262 | 3179 | 3044 | 2987 | 2983 | 919 |
| 25° | 2974 | 2826 | 2586 | 2543 | 2551 | 1362 |
| 35° | 2325 | 2189 | 1980 | 1967 | 1998 | 1446 |
| 45° | 1518 | 1461 | 1361 | 1396 | 1457 | 1180 |
| 55° | 955 | 885 | 833 | 881 | 942 | 861 |
| 65° | 571 | 493 | 414 | 410 | 440 | 567 |
| 75° | 262 | 201 | 96 | 44 | 39 | 282 |
| 85° | 44 | 26 | 0 | 0 | 0 | 56 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 |
| 2.5° | 3284.0 | 3288.3 | 3279.6 | 3279.6 | 3288.3 | 3279.6 | 3284.0 | 3284.0 | 3279.6 | 3279.6 | 3275.2 |
| 5° | 3297.1 | 3292.7 | 3292.7 | 3292.7 | 3297.1 | 3288.3 | 3284.0 | 3288.3 | 3279.6 | 3279.6 | 3279.6 |
| 7.5° | 3301.4 | 3301.4 | 3297.1 | 3292.7 | 3292.7 | 3292.7 | 3288.3 | 3284.0 | 3279.6 | 3270.9 | 3266.5 |
| 10° | 3292.7 | 3292.7 | 3297.1 | 3288.3 | 3288.3 | 3279.6 | 3279.6 | 3270.9 | 3270.9 | 3262.2 | 3249.1 |
| 12.5° | 3284.0 | 3279.6 | 3279.6 | 3270.9 | 3270.9 | 3262.2 | 3262.2 | 3249.1 | 3244.7 | 3231.6 | 3218.6 |
| 15° | 3262.2 | 3257.8 | 3249.1 | 3244.7 | 3240.4 | 3236.0 | 3227.3 | 3222.9 | 3209.8 | 3192.4 | 3179.3 |
| 17.5° | 3218.6 | 3214.2 | 3209.8 | 3201.1 | 3192.4 | 3188.0 | 3183.6 | 3170.6 | 3153.2 | 3140.0 | 3118.2 |
| 20° | 3157.5 | 3153.2 | 3153.2 | 3140.0 | 3135.7 | 3122.6 | 3118.2 | 3100.8 | 3087.8 | 3061.6 | 3044.1 |
| 22.5° | 3074.6 | 3079.0 | 3070.2 | 3061.6 | 3052.8 | 3039.8 | 3031.0 | 3013.6 | 2991.8 | 2965.6 | 2943.8 |
| 25° | 2974.3 | 2978.7 | 2970.0 | 2961.2 | 2948.2 | 2939.4 | 2930.7 | 2904.5 | 2882.7 | 2852.2 | 2826.1 |
| 27.5° | 2847.9 | 2847.9 | 2847.9 | 2839.1 | 2817.3 | 2812.9 | 2804.3 | 2778.1 | 2747.5 | 2721.3 | 2695.3 |
| 30° | 2699.5 | 2695.3 | 2695.3 | 2682.1 | 2673.4 | 2655.9 | 2642.9 | 2621.1 | 2599.3 | 2568.7 | 2538.2 |
| 32.5° | 2520.8 | 2525.1 | 2512.0 | 2503.3 | 2490.2 | 2490.2 | 2472.8 | 2455.4 | 2429.2 | 2398.6 | 2368.2 |
| 35° | 2324.6 | 2328.8 | 2320.2 | 2315.8 | 2294.0 | 2289.6 | 2285.2 | 2263.4 | 2246.0 | 2224.2 | 2189.3 |
| 37.5° | 2123.9 | 2119.5 | 2115.2 | 2115.2 | 2102.1 | 2093.4 | 2084.7 | 2071.5 | 2045.4 | 2027.9 | 2010.5 |
| 40° | 1905.9 | 1905.9 | 1905.9 | 1901.5 | 1897.1 | 1888.3 | 1884.1 | 1875.3 | 1857.9 | 1840.4 | 1827.3 |
| 42.5° | 1709.6 | 1709.6 | 1705.2 | 1700.9 | 1692.2 | 1696.5 | 1687.8 | 1679.0 | 1661.6 | 1648.6 | 1639.8 |
| 45° | 1517.6 | 1517.6 | 1517.6 | 1522.0 | 1513.4 | 1500.2 | 1500.2 | 1491.6 | 1482.8 | 1474.0 | 1461.0 |
| 47.5° | 1347.6 | 1360.7 | 1352.0 | 1347.6 | 1352.0 | 1334.5 | 1334.5 | 1325.8 | 1317.1 | 1308.3 | 1290.9 |
| 50° | 1208.1 | 1208.1 | 1208.1 | 1199.3 | 1194.9 | 1194.9 | 1181.9 | 1173.1 | 1168.7 | 1160.1 | 1142.7 |
| 52.5° | 1081.5 | 1072.9 | 1072.9 | 1068.5 | 1064.1 | 1055.4 | 1055.4 | 1046.7 | 1029.3 | 1020.5 | 1007.4 |
| 55° | 955.1 | 955.1 | 950.7 | 946.4 | 942.0 | 937.6 | 933.3 | 920.2 | 911.5 | 898.4 | 885.3 |
| 57.5° | 841.8 | 850.4 | 846.0 | 837.4 | 828.6 | 828.6 | 820.0 | 811.2 | 798.2 | 785.0 | 772.0 |
| 60° | 750.2 | 745.8 | 745.8 | 741.4 | 732.6 | 728.4 | 724.0 | 710.8 | 697.8 | 684.7 | 671.6 |
| 62.5° | 654.2 | 654.2 | 654.2 | 645.4 | 636.7 | 632.4 | 628.0 | 619.3 | 601.8 | 588.8 | 580.0 |
| 65° | 571.3 | 567.0 | 562.6 | 558.2 | 553.9 | 545.1 | 540.8 | 532.1 | 519.0 | 505.9 | 492.8 |
| 67.5° | 488.5 | 484.1 | 484.1 | 479.7 | 466.7 | 462.3 | 462.3 | 449.2 | 436.1 | 423.1 | 409.9 |
| 70° | 405.5 | 405.5 | 405.5 | 396.9 | 392.5 | 388.1 | 383.7 | 375.1 | 361.9 | 348.9 | 335.8 |
| 72.5° | 335.8 | 331.5 | 331.5 | 327.1 | 314.0 | 309.7 | 305.3 | 296.5 | 283.5 | 274.7 | 266.1 |
| 75° | 261.7 | 261.7 | 257.3 | 252.9 | 248.6 | 244.2 | 239.9 | 231.1 | 218.1 | 205.0 | 200.6 |
| 77.5° | 200.6 | 196.3 | 196.3 | 191.9 | 183.2 | 178.8 | 178.8 | 170.1 | 157.0 | 148.3 | 139.6 |
| 80° | 135.2 | 139.6 | 135.2 | 130.8 | 126.5 | 122.1 | 117.8 | 113.4 | 104.6 | 96.0 | 87.2 |
| 82.5° | 82.8 | 87.2 | 82.8 | 82.8 | 78.5 | 74.2 | 74.2 | 65.4 | 61.0 | 56.7 | 52.4 |
| 85° | 43.6 | 43.6 | 43.6 | 43.6 | 39.2 | 39.2 | 39.2 | 34.8 | 30.6 | 26.2 | 26.2 |
| 87.5° | 13.0 | 17.4 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 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: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 |
| 2.5° | 3279.6 | 3275.2 | 3270.9 | 3270.9 | 3270.9 | 3270.9 | 3270.9 | 3266.5 | 3262.2 | 3262.2 | 3262.2 |
| 5° | 3270.9 | 3270.9 | 3270.9 | 3266.5 | 3262.2 | 3262.2 | 3253.4 | 3249.1 | 3244.7 | 3240.4 | 3236.0 |
| 7.5° | 3262.2 | 3253.4 | 3249.1 | 3244.7 | 3240.4 | 3240.4 | 3231.6 | 3222.9 | 3222.9 | 3214.2 | 3205.4 |
| 10° | 3236.0 | 3231.6 | 3222.9 | 3214.2 | 3209.8 | 3205.4 | 3196.8 | 3183.6 | 3179.3 | 3170.6 | 3161.8 |
| 12.5° | 3205.4 | 3196.8 | 3188.0 | 3170.6 | 3166.2 | 3161.8 | 3144.4 | 3131.4 | 3122.6 | 3118.2 | 3096.4 |
| 15° | 3166.2 | 3148.8 | 3135.7 | 3113.8 | 3109.6 | 3100.8 | 3087.8 | 3074.6 | 3057.2 | 3044.1 | 3035.4 |
| 17.5° | 3096.4 | 3079.0 | 3057.2 | 3035.4 | 3026.6 | 3026.6 | 3004.8 | 2987.4 | 2965.6 | 2956.9 | 2939.4 |
| 20° | 3013.6 | 2991.8 | 2974.3 | 2948.2 | 2935.1 | 2922.0 | 2908.9 | 2882.7 | 2865.3 | 2852.2 | 2830.4 |
| 22.5° | 2917.6 | 2887.1 | 2865.3 | 2839.1 | 2817.3 | 2804.3 | 2782.5 | 2760.7 | 2738.9 | 2725.7 | 2708.3 |
| 25° | 2795.5 | 2769.3 | 2734.5 | 2708.3 | 2695.3 | 2677.7 | 2651.6 | 2629.8 | 2608.0 | 2586.2 | 2577.5 |
| 27.5° | 2660.3 | 2625.5 | 2594.9 | 2564.4 | 2551.3 | 2538.2 | 2507.7 | 2481.5 | 2464.1 | 2442.2 | 2433.6 |
| 30° | 2512.0 | 2477.2 | 2442.2 | 2416.1 | 2403.0 | 2381.2 | 2363.8 | 2333.2 | 2311.4 | 2294.0 | 2272.2 |
| 32.5° | 2342.0 | 2315.8 | 2285.2 | 2246.0 | 2237.2 | 2219.8 | 2193.7 | 2180.6 | 2154.4 | 2141.3 | 2123.9 |
| 35° | 2158.8 | 2141.3 | 2110.8 | 2080.3 | 2067.2 | 2058.5 | 2036.7 | 2010.5 | 1993.1 | 1979.9 | 1971.3 |
| 37.5° | 1984.3 | 1962.5 | 1932.1 | 1910.1 | 1901.5 | 1888.3 | 1862.3 | 1849.1 | 1831.7 | 1822.9 | 1805.5 |
| 40° | 1796.8 | 1775.0 | 1753.2 | 1740.1 | 1727.0 | 1718.3 | 1700.9 | 1687.8 | 1670.4 | 1657.2 | 1652.9 |
| 42.5° | 1613.6 | 1600.6 | 1583.2 | 1565.6 | 1561.4 | 1548.2 | 1539.4 | 1526.4 | 1513.4 | 1509.0 | 1495.8 |
| 45° | 1447.9 | 1434.8 | 1417.4 | 1400.0 | 1395.6 | 1386.8 | 1382.5 | 1369.4 | 1360.7 | 1360.7 | 1360.7 |
| 47.5° | 1282.2 | 1269.1 | 1251.7 | 1242.9 | 1247.3 | 1229.9 | 1229.9 | 1225.5 | 1216.7 | 1216.7 | 1221.1 |
| 50° | 1133.9 | 1116.5 | 1112.1 | 1103.3 | 1094.7 | 1085.9 | 1090.3 | 1077.2 | 1077.2 | 1085.9 | 1081.5 |
| 52.5° | 994.3 | 976.9 | 972.5 | 963.8 | 959.5 | 959.5 | 955.1 | 955.1 | 950.7 | 955.1 | 955.1 |
| 55° | 867.8 | 854.8 | 846.0 | 837.4 | 833.0 | 833.0 | 833.0 | 828.6 | 824.2 | 833.0 | 837.4 |
| 57.5° | 754.4 | 750.2 | 741.4 | 728.4 | 724.0 | 719.6 | 715.2 | 715.2 | 715.2 | 715.2 | 719.6 |
| 60° | 654.2 | 645.4 | 636.7 | 623.6 | 623.6 | 619.3 | 614.9 | 610.6 | 610.6 | 610.6 | 610.6 |
| 62.5° | 567.0 | 553.9 | 540.8 | 532.1 | 527.7 | 523.3 | 519.0 | 510.3 | 510.3 | 510.3 | 510.3 |
| 65° | 479.7 | 466.7 | 457.9 | 449.2 | 440.5 | 440.5 | 431.7 | 427.5 | 418.7 | 414.3 | 405.5 |
| 67.5° | 396.9 | 388.1 | 379.5 | 366.3 | 361.9 | 357.7 | 348.9 | 344.5 | 331.5 | 327.1 | 322.7 |
| 70° | 322.7 | 309.7 | 300.9 | 292.2 | 287.9 | 279.1 | 270.4 | 261.7 | 252.9 | 244.2 | 235.5 |
| 72.5° | 252.9 | 239.9 | 231.1 | 222.4 | 213.7 | 213.7 | 200.6 | 191.9 | 178.8 | 170.1 | 157.0 |
| 75° | 187.5 | 174.4 | 165.7 | 152.6 | 148.3 | 143.9 | 130.8 | 122.1 | 109.0 | 96.0 | 87.2 |
| 77.5° | 126.5 | 117.8 | 109.0 | 96.0 | 87.2 | 87.2 | 74.2 | 65.4 | 56.7 | 43.6 | 39.2 |
| 80° | 78.5 | 69.8 | 61.0 | 52.4 | 52.4 | 43.6 | 39.2 | 30.6 | 21.8 | 17.4 | 13.0 |
| 82.5° | 43.6 | 39.2 | 34.8 | 26.2 | 26.2 | 21.8 | 17.4 | 13.0 | 8.8 | 4.4 | 4.4 |
| 85° | 21.8 | 17.4 | 13.0 | 13.0 | 8.8 | 8.8 | 8.8 | 4.4 | 4.4 | 0.0 | 0.0 |
| 87.5° | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 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: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 |
| 2.5° | 3257.8 | 3257.8 | 3253.4 | 3253.4 | 3253.4 | 3249.1 | 3253.4 | 3249.1 | 3249.1 | 3249.1 | 3253.4 |
| 5° | 3240.4 | 3231.6 | 3231.6 | 3227.3 | 3227.3 | 3222.9 | 3227.3 | 3222.9 | 3218.6 | 3214.2 | 3218.6 |
| 7.5° | 3205.4 | 3196.8 | 3192.4 | 3188.0 | 3188.0 | 3188.0 | 3183.6 | 3179.3 | 3183.6 | 3170.6 | 3179.3 |
| 10° | 3157.5 | 3153.2 | 3144.4 | 3140.0 | 3135.7 | 3140.0 | 3135.7 | 3127.0 | 3127.0 | 3127.0 | 3122.6 |
| 12.5° | 3096.4 | 3087.8 | 3083.4 | 3079.0 | 3070.2 | 3070.2 | 3074.6 | 3066.0 | 3066.0 | 3057.2 | 3057.2 |
| 15° | 3022.3 | 3013.6 | 3004.8 | 3004.8 | 2996.2 | 2996.2 | 2991.8 | 2991.8 | 2987.4 | 2983.0 | 2983.0 |
| 17.5° | 2930.7 | 2917.6 | 2908.9 | 2913.3 | 2908.9 | 2904.5 | 2904.5 | 2895.8 | 2891.5 | 2895.8 | 2895.8 |
| 20° | 2821.7 | 2812.9 | 2804.3 | 2808.6 | 2799.9 | 2795.5 | 2799.9 | 2786.8 | 2791.1 | 2791.1 | 2791.1 |
| 22.5° | 2699.5 | 2695.3 | 2682.1 | 2682.1 | 2673.4 | 2669.1 | 2673.4 | 2673.4 | 2677.7 | 2673.4 | 2673.4 |
| 25° | 2564.4 | 2555.7 | 2546.9 | 2546.9 | 2542.6 | 2538.2 | 2542.6 | 2546.9 | 2542.6 | 2546.9 | 2546.9 |
| 27.5° | 2420.4 | 2407.4 | 2407.4 | 2398.6 | 2398.6 | 2403.0 | 2398.6 | 2403.0 | 2407.4 | 2407.4 | 2416.1 |
| 30° | 2263.4 | 2259.0 | 2254.8 | 2250.4 | 2250.4 | 2254.8 | 2254.8 | 2254.8 | 2259.0 | 2267.8 | 2267.8 |
| 32.5° | 2115.2 | 2106.5 | 2097.7 | 2097.7 | 2106.5 | 2102.1 | 2106.5 | 2106.5 | 2115.2 | 2115.2 | 2123.9 |
| 35° | 1953.9 | 1953.9 | 1945.1 | 1949.5 | 1949.5 | 1949.5 | 1949.5 | 1958.1 | 1966.9 | 1971.3 | 1979.9 |
| 37.5° | 1805.5 | 1792.5 | 1796.8 | 1796.8 | 1801.1 | 1796.8 | 1809.9 | 1809.9 | 1818.6 | 1818.6 | 1827.3 |
| 40° | 1644.2 | 1644.2 | 1648.6 | 1644.2 | 1648.6 | 1648.6 | 1657.2 | 1666.0 | 1670.4 | 1679.0 | 1683.4 |
| 42.5° | 1491.6 | 1500.2 | 1491.6 | 1495.8 | 1500.2 | 1504.6 | 1509.0 | 1513.4 | 1530.8 | 1539.4 | 1552.6 |
| 45° | 1352.0 | 1356.3 | 1360.7 | 1365.0 | 1360.7 | 1369.4 | 1373.8 | 1382.5 | 1395.6 | 1400.0 | 1404.3 |
| 47.5° | 1216.7 | 1221.1 | 1225.5 | 1229.9 | 1229.9 | 1238.5 | 1242.9 | 1251.7 | 1260.4 | 1264.7 | 1269.1 |
| 50° | 1085.9 | 1094.7 | 1099.1 | 1099.1 | 1103.3 | 1112.1 | 1120.9 | 1120.9 | 1129.5 | 1142.7 | 1146.9 |
| 52.5° | 968.2 | 968.2 | 976.9 | 981.3 | 985.6 | 985.6 | 998.7 | 1003.1 | 1007.4 | 1016.1 | 1024.9 |
| 55° | 837.4 | 850.4 | 854.8 | 854.8 | 863.6 | 872.2 | 876.6 | 881.0 | 881.0 | 898.4 | 898.4 |
| 57.5° | 724.0 | 728.4 | 737.0 | 737.0 | 737.0 | 750.2 | 750.2 | 758.8 | 763.2 | 767.6 | 776.2 |
| 60° | 610.6 | 619.3 | 619.3 | 623.6 | 619.3 | 628.0 | 632.4 | 641.1 | 645.4 | 649.8 | 654.2 |
| 62.5° | 505.9 | 505.9 | 510.3 | 510.3 | 510.3 | 510.3 | 519.0 | 519.0 | 527.7 | 532.1 | 536.4 |
| 65° | 405.5 | 405.5 | 405.5 | 405.5 | 405.5 | 405.5 | 405.5 | 405.5 | 409.9 | 409.9 | 418.7 |
| 67.5° | 314.0 | 309.7 | 300.9 | 305.3 | 300.9 | 300.9 | 296.5 | 296.5 | 300.9 | 300.9 | 309.7 |
| 70° | 226.8 | 222.4 | 213.7 | 213.7 | 209.3 | 205.0 | 200.6 | 196.3 | 191.9 | 191.9 | 191.9 |
| 72.5° | 148.3 | 139.6 | 126.5 | 122.1 | 122.1 | 113.4 | 104.6 | 100.3 | 100.3 | 100.3 | 100.3 |
| 75° | 74.2 | 65.4 | 56.7 | 52.4 | 52.4 | 43.6 | 48.0 | 43.6 | 43.6 | 43.6 | 43.6 |
| 77.5° | 30.6 | 21.8 | 17.4 | 17.4 | 17.4 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 80° | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 82.5° | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 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: P585109

CATALOG NUMBER: HC860D010-HM86080840-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 | 3266.5 |
| 2.5° | 3249.1 | 3249.1 | 3240.4 | 3244.7 | 3244.7 | 3244.7 | 3244.7 | 3244.7 |
| 5° | 3209.8 | 3214.2 | 3209.8 | 3214.2 | 3214.2 | 3209.8 | 3209.8 | 3209.8 |
| 7.5° | 3170.6 | 3175.0 | 3170.6 | 3175.0 | 3175.0 | 3175.0 | 3170.6 | 3170.6 |
| 10° | 3122.6 | 3122.6 | 3122.6 | 3122.6 | 3122.6 | 3118.2 | 3122.6 | 3122.6 |
| 12.5° | 3057.2 | 3057.2 | 3057.2 | 3061.6 | 3061.6 | 3057.2 | 3057.2 | 3052.8 |
| 15° | 2987.4 | 2978.7 | 2983.0 | 2987.4 | 2983.0 | 2983.0 | 2983.0 | 2983.0 |
| 17.5° | 2891.5 | 2895.8 | 2891.5 | 2891.5 | 2891.5 | 2891.5 | 2895.8 | 2891.5 |
| 20° | 2791.1 | 2791.1 | 2795.5 | 2791.1 | 2791.1 | 2791.1 | 2791.1 | 2786.8 |
| 22.5° | 2677.7 | 2673.4 | 2673.4 | 2677.7 | 2677.7 | 2673.4 | 2677.7 | 2677.7 |
| 25° | 2551.3 | 2555.7 | 2551.3 | 2551.3 | 2555.7 | 2555.7 | 2555.7 | 2551.3 |
| 27.5° | 2416.1 | 2420.4 | 2424.8 | 2420.4 | 2420.4 | 2420.4 | 2424.8 | 2429.2 |
| 30° | 2276.6 | 2285.2 | 2276.6 | 2276.6 | 2285.2 | 2280.8 | 2285.2 | 2285.2 |
| 32.5° | 2128.3 | 2141.3 | 2132.6 | 2141.3 | 2141.3 | 2145.7 | 2141.3 | 2145.7 |
| 35° | 1979.9 | 1993.1 | 1993.1 | 1993.1 | 1997.5 | 2001.8 | 2001.8 | 1997.5 |
| 37.5° | 1840.4 | 1844.7 | 1844.7 | 1853.5 | 1857.9 | 1862.3 | 1862.3 | 1857.9 |
| 40° | 1696.5 | 1705.2 | 1709.6 | 1709.6 | 1709.6 | 1718.3 | 1727.0 | 1718.3 |
| 42.5° | 1557.0 | 1561.4 | 1565.6 | 1565.6 | 1574.4 | 1578.8 | 1583.2 | 1583.2 |
| 45° | 1421.8 | 1430.4 | 1434.8 | 1439.2 | 1443.6 | 1452.2 | 1447.9 | 1456.6 |
| 47.5° | 1282.2 | 1295.3 | 1299.7 | 1304.0 | 1312.7 | 1317.1 | 1321.5 | 1325.8 |
| 50° | 1155.7 | 1164.5 | 1164.5 | 1173.1 | 1186.3 | 1186.3 | 1194.9 | 1199.3 |
| 52.5° | 1029.3 | 1033.6 | 1037.9 | 1042.3 | 1051.1 | 1059.7 | 1059.7 | 1068.5 |
| 55° | 907.1 | 911.5 | 911.5 | 915.8 | 920.2 | 937.6 | 942.0 | 942.0 |
| 57.5° | 780.6 | 780.6 | 789.4 | 793.8 | 798.2 | 806.8 | 806.8 | 806.8 |
| 60° | 658.6 | 662.9 | 662.9 | 667.2 | 671.6 | 680.4 | 684.7 | 680.4 |
| 62.5° | 536.4 | 540.8 | 540.8 | 545.1 | 553.9 | 558.2 | 553.9 | 553.9 |
| 65° | 423.1 | 427.5 | 427.5 | 431.7 | 440.5 | 440.5 | 436.1 | 440.5 |
| 67.5° | 309.7 | 309.7 | 309.7 | 309.7 | 309.7 | 309.7 | 309.7 | 309.7 |
| 70° | 196.3 | 191.9 | 187.5 | 191.9 | 191.9 | 191.9 | 187.5 | 196.3 |
| 72.5° | 96.0 | 100.3 | 100.3 | 100.3 | 100.3 | 100.3 | 100.3 | 96.0 |
| 75° | 43.6 | 43.6 | 39.2 | 39.2 | 39.2 | 43.6 | 43.6 | 39.2 |
| 77.5° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 80° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 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)