

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: P593801

Luminaire Tested: **HC850D010-HM82555850-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555850-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5382.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

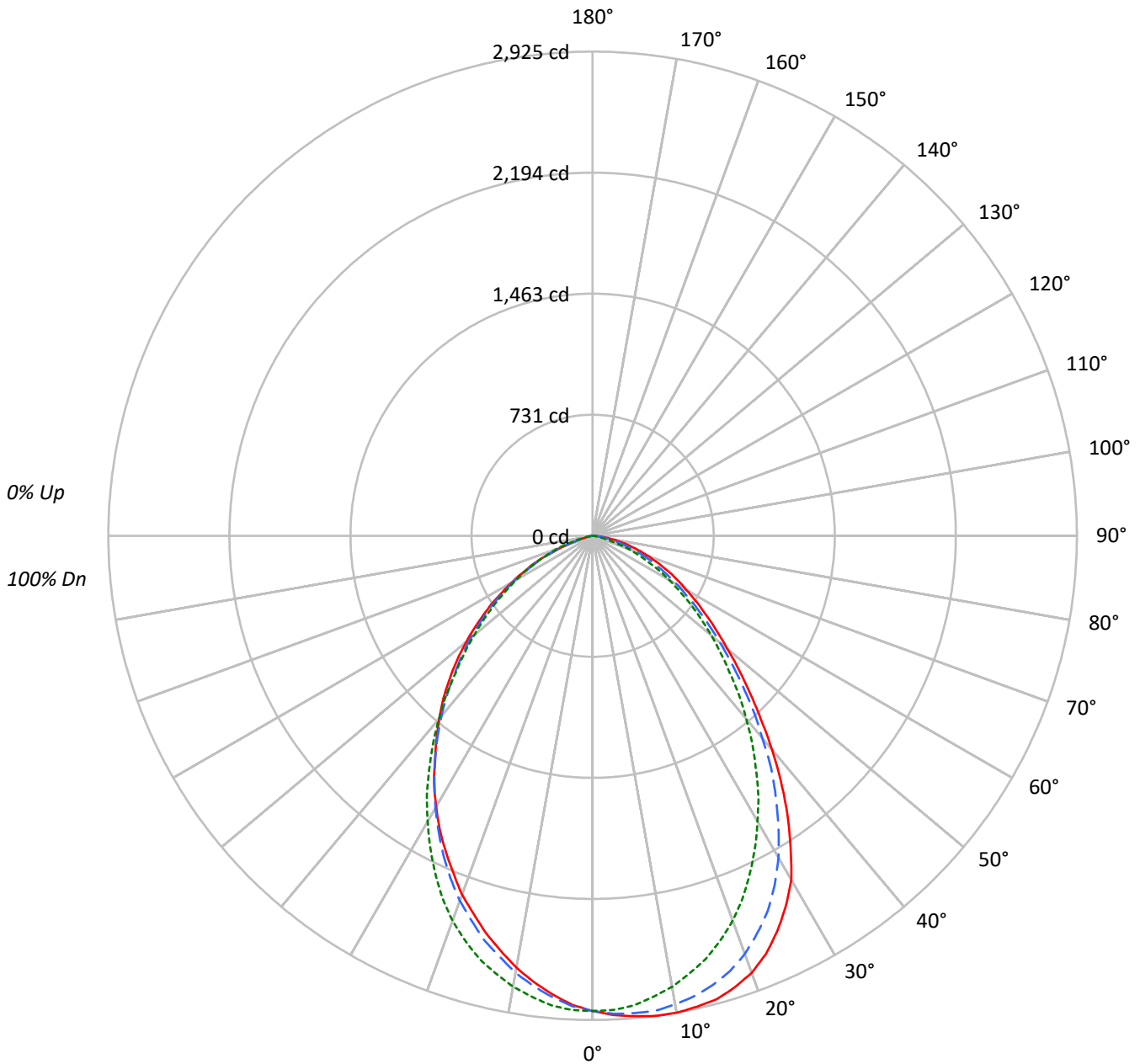
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

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 | | | | 100 | | | | |
| 1 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | 88 | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 90 | 86 | 82 | 87 | 84 | 80 | 84 | 81 | 79 | 77 | | | | 77 | | | | |
| 3 | 95 | 86 | 79 | 73 | 92 | 84 | 78 | 73 | 81 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 69 | 67 | | | | 67 | | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 63 | 74 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | | | | 59 | | | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | 52 | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | 47 | | | | |
| 7 | 71 | 58 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | 42 | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | 38 | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 36 | 35 | | | | 35 | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | 32 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 88528 | 88528 | 88528 |
| 5° | 90191 | 88148 | 86099 |
| 10° | 91600 | 86609 | 82952 |
| 15° | 92522 | 84449 | 79360 |
| 20° | 92172 | 81192 | 75702 |
| 25° | 89742 | 76507 | 71474 |
| 30° | 85467 | 70918 | 67318 |
| 35° | 77178 | 64729 | 62531 |
| 40° | 67804 | 58094 | 57942 |
| 45° | 58528 | 51066 | 53269 |
| 50° | 50947 | 44792 | 47776 |
| 55° | 45176 | 38902 | 41617 |
| 60° | 40309 | 32865 | 34549 |
| 65° | 36337 | 26683 | 27252 |
| 70° | 32268 | 19997 | 16139 |
| 75° | 27808 | 11593 | 6946 |
| 80° | 21416 | 4155 | 2078 |
| 85° | 13763 | 1380 | 1380 |



TEST NUMBER: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 269.5 | 5.0 |
| 10°-20° | 750.3 | 13.9 |
| 20°-30° | 1061.2 | 19.7 |
| 30°-40° | 1118.2 | 20.8 |
| 40°-50° | 950.3 | 17.7 |
| 50°-60° | 684.3 | 12.7 |
| 60°-70° | 394.7 | 7.3 |
| 70°-80° | 135.1 | 2.5 |
| 80°-90° | 18.6 | 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° | 2081.0 | 38.7 |
| 0°-40° | 3199.2 | 59.4 |
| 0°-60° | 4833.8 | 89.8 |
| 0°-90° | 5382.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5382.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2871 | 2871 | 2871 | 2871 | 2871 | |
| 5° | 2914 | 2894 | 2848 | 2797 | 2782 | 278 |
| 15° | 2898 | 2809 | 2645 | 2529 | 2486 | 816 |
| 25° | 2638 | 2501 | 2249 | 2132 | 2101 | 1210 |
| 35° | 2050 | 1930 | 1720 | 1657 | 1661 | 1277 |
| 45° | 1342 | 1280 | 1171 | 1179 | 1222 | 1043 |
| 55° | 840 | 774 | 724 | 751 | 774 | 756 |
| 65° | 498 | 428 | 366 | 358 | 374 | 495 |
| 75° | 233 | 175 | 97 | 62 | 58 | 246 |
| 85° | 39 | 23 | 4 | 4 | 4 | 52 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 |
| 2.5° | 2898.2 | 2902.2 | 2898.2 | 2898.2 | 2894.3 | 2890.5 | 2886.5 | 2882.6 | 2874.9 | 2867.1 | 2867.1 |
| 5° | 2913.7 | 2921.6 | 2913.7 | 2913.7 | 2902.2 | 2894.3 | 2886.5 | 2874.9 | 2859.3 | 2847.7 | 2847.7 |
| 7.5° | 2925.4 | 2925.4 | 2925.4 | 2913.7 | 2906.0 | 2894.3 | 2874.9 | 2855.4 | 2836.0 | 2816.5 | 2808.8 |
| 10° | 2925.4 | 2925.4 | 2921.6 | 2906.0 | 2898.2 | 2874.9 | 2855.4 | 2828.2 | 2800.9 | 2773.7 | 2766.0 |
| 12.5° | 2913.7 | 2917.7 | 2909.9 | 2894.3 | 2874.9 | 2847.7 | 2820.4 | 2785.4 | 2754.3 | 2723.2 | 2707.6 |
| 15° | 2898.2 | 2894.3 | 2886.5 | 2867.1 | 2843.7 | 2808.8 | 2781.5 | 2742.6 | 2699.8 | 2660.9 | 2645.3 |
| 17.5° | 2859.3 | 2859.3 | 2847.7 | 2828.2 | 2797.1 | 2758.1 | 2715.4 | 2672.6 | 2625.9 | 2583.1 | 2563.6 |
| 20° | 2808.8 | 2808.8 | 2793.2 | 2769.8 | 2738.7 | 2688.1 | 2641.5 | 2590.9 | 2536.4 | 2493.6 | 2474.2 |
| 22.5° | 2734.9 | 2738.7 | 2719.2 | 2692.1 | 2657.0 | 2598.7 | 2551.9 | 2489.7 | 2435.3 | 2384.8 | 2369.1 |
| 25° | 2637.6 | 2645.3 | 2625.9 | 2598.7 | 2551.9 | 2501.4 | 2443.1 | 2384.8 | 2322.5 | 2271.8 | 2248.6 |
| 27.5° | 2524.8 | 2528.7 | 2509.1 | 2481.9 | 2435.3 | 2380.8 | 2322.5 | 2260.3 | 2201.8 | 2147.5 | 2124.1 |
| 30° | 2400.3 | 2384.8 | 2376.9 | 2341.9 | 2291.4 | 2244.7 | 2178.5 | 2127.9 | 2065.7 | 2019.0 | 1991.7 |
| 32.5° | 2225.2 | 2233.0 | 2209.6 | 2182.4 | 2143.5 | 2089.0 | 2034.5 | 1976.2 | 1917.9 | 1882.9 | 1863.4 |
| 35° | 2050.2 | 2057.9 | 2046.2 | 2019.0 | 1976.2 | 1929.6 | 1875.1 | 1832.3 | 1781.7 | 1738.9 | 1719.5 |
| 37.5° | 1867.4 | 1867.4 | 1859.5 | 1844.0 | 1812.9 | 1770.1 | 1715.6 | 1672.8 | 1630.1 | 1595.0 | 1583.3 |
| 40° | 1684.4 | 1676.7 | 1672.8 | 1661.1 | 1633.9 | 1595.0 | 1560.0 | 1525.0 | 1482.2 | 1458.8 | 1443.2 |
| 42.5° | 1505.6 | 1505.6 | 1497.7 | 1486.0 | 1458.8 | 1439.4 | 1404.3 | 1365.5 | 1334.3 | 1311.0 | 1311.0 |
| 45° | 1342.1 | 1346.0 | 1334.3 | 1326.6 | 1311.0 | 1279.9 | 1248.7 | 1221.5 | 1194.3 | 1178.7 | 1171.0 |
| 47.5° | 1198.2 | 1198.2 | 1186.5 | 1178.7 | 1163.2 | 1135.9 | 1108.7 | 1085.4 | 1065.9 | 1054.2 | 1050.3 |
| 50° | 1062.0 | 1062.0 | 1062.0 | 1042.6 | 1023.1 | 1003.7 | 984.2 | 956.9 | 945.4 | 937.5 | 933.7 |
| 52.5° | 945.4 | 941.4 | 941.4 | 925.8 | 906.4 | 883.1 | 863.7 | 840.3 | 828.6 | 820.9 | 824.7 |
| 55° | 840.3 | 840.3 | 836.4 | 816.9 | 797.5 | 774.1 | 754.7 | 735.3 | 727.5 | 719.6 | 723.6 |
| 56° | 797.5 | 797.5 | 793.6 | 778.1 | 754.7 | 735.3 | 711.9 | 692.5 | 680.8 | 684.7 | 684.7 |
| 57° | 766.4 | 758.6 | 758.6 | 739.2 | 719.6 | 692.5 | 673.0 | 653.6 | 645.8 | 641.9 | 641.9 |
| 58° | 727.5 | 723.6 | 719.6 | 700.2 | 680.8 | 657.4 | 638.0 | 618.5 | 606.8 | 606.8 | 603.0 |
| 59° | 688.5 | 688.5 | 680.8 | 665.3 | 645.8 | 622.5 | 603.0 | 583.6 | 571.9 | 568.0 | 568.0 |
| 60° | 653.6 | 657.4 | 645.8 | 630.2 | 614.7 | 587.4 | 564.0 | 548.5 | 536.8 | 532.9 | 532.9 |
| 61° | 622.5 | 622.5 | 614.7 | 595.3 | 575.7 | 556.3 | 532.9 | 513.5 | 505.7 | 498.0 | 498.0 |
| 62° | 595.3 | 587.4 | 583.6 | 564.0 | 544.6 | 521.3 | 501.9 | 482.3 | 470.8 | 462.9 | 466.8 |
| 63° | 560.2 | 556.3 | 548.5 | 532.9 | 513.5 | 490.2 | 466.8 | 451.2 | 439.5 | 428.0 | 431.8 |
| 64° | 532.9 | 529.1 | 517.4 | 501.9 | 482.3 | 459.1 | 435.7 | 420.1 | 412.3 | 400.7 | 396.8 |
| 65° | 498.0 | 494.0 | 490.2 | 470.8 | 451.2 | 428.0 | 408.4 | 392.9 | 381.2 | 373.5 | 365.7 |
| 66° | 466.8 | 470.8 | 462.9 | 447.4 | 424.0 | 404.6 | 377.4 | 361.8 | 354.0 | 342.3 | 334.6 |
| 67° | 439.5 | 439.5 | 431.8 | 416.3 | 392.9 | 373.5 | 354.0 | 334.6 | 322.9 | 311.2 | 307.3 |
| 67.5° | 424.0 | 424.0 | 416.3 | 396.8 | 381.2 | 357.9 | 338.4 | 322.9 | 307.3 | 299.5 | 291.8 |
| 68° | 408.4 | 408.4 | 404.6 | 389.0 | 369.5 | 346.3 | 326.7 | 307.3 | 291.8 | 280.1 | 276.2 |
| 69° | 381.2 | 385.2 | 377.4 | 361.8 | 342.3 | 319.0 | 299.5 | 284.0 | 268.4 | 256.7 | 249.0 |
| 70° | 357.9 | 354.0 | 346.3 | 330.7 | 311.2 | 295.6 | 276.2 | 256.7 | 241.2 | 225.6 | 221.8 |
| 71° | 326.7 | 326.7 | 319.0 | 307.3 | 287.9 | 268.4 | 249.0 | 233.4 | 217.9 | 198.4 | 194.5 |
| 72° | 303.5 | 303.5 | 295.6 | 280.1 | 264.5 | 245.1 | 225.6 | 206.2 | 194.5 | 175.1 | 167.3 |
| 72.5° | 287.9 | 291.8 | 284.0 | 268.4 | 252.9 | 229.5 | 213.9 | 198.4 | 179.0 | 163.4 | 155.6 |
| 73° | 280.1 | 276.2 | 272.3 | 256.7 | 237.3 | 221.8 | 202.2 | 186.7 | 167.3 | 151.7 | 143.9 |



TEST NUMBER: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 77.5° | 175.1 | 175.1 | 171.1 | 155.6 | 140.0 | 124.5 | 109.0 | 93.4 | 77.9 | 62.2 | 54.5 |
| 80° | 120.6 | 124.5 | 116.7 | 109.0 | 97.3 | 81.7 | 66.2 | 54.5 | 38.9 | 31.1 | 23.4 |
| 82.5° | 77.9 | 77.9 | 73.9 | 66.2 | 58.3 | 46.6 | 38.9 | 27.2 | 19.4 | 15.5 | 11.7 |
| 85° | 38.9 | 42.8 | 38.9 | 35.1 | 27.2 | 23.4 | 19.4 | 11.7 | 7.8 | 3.9 | 3.9 |
| 87.5° | 15.5 | 15.5 | 15.5 | 11.7 | 11.7 | 7.8 | 3.9 | 3.9 | 3.9 | 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: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 | 2870.9 |
| 2.5° | 2859.3 | 2859.3 | 2851.5 | 2847.7 | 2843.7 | 2839.9 | 2836.0 | 2832.1 | 2832.1 | 2836.0 |
| 5° | 2836.0 | 2828.2 | 2812.6 | 2808.8 | 2797.1 | 2793.2 | 2785.4 | 2781.5 | 2785.4 | 2781.5 |
| 7.5° | 2800.9 | 2785.4 | 2766.0 | 2758.1 | 2742.6 | 2734.9 | 2723.2 | 2723.2 | 2715.4 | 2719.2 |
| 10° | 2754.3 | 2730.9 | 2707.6 | 2692.1 | 2680.4 | 2668.7 | 2660.9 | 2653.2 | 2649.2 | 2649.2 |
| 12.5° | 2695.9 | 2668.7 | 2645.3 | 2622.1 | 2602.5 | 2594.8 | 2579.2 | 2579.2 | 2571.4 | 2567.6 |
| 15° | 2629.8 | 2594.8 | 2567.6 | 2544.2 | 2528.7 | 2513.1 | 2501.4 | 2493.6 | 2485.9 | 2485.9 |
| 17.5° | 2544.2 | 2513.1 | 2485.9 | 2458.6 | 2435.3 | 2423.6 | 2411.9 | 2400.3 | 2400.3 | 2392.5 |
| 20° | 2450.8 | 2415.9 | 2392.5 | 2365.2 | 2345.8 | 2326.3 | 2310.8 | 2310.8 | 2303.0 | 2306.9 |
| 22.5° | 2345.8 | 2303.0 | 2279.7 | 2260.3 | 2240.7 | 2225.2 | 2209.6 | 2209.6 | 2205.8 | 2201.8 |
| 25° | 2229.0 | 2194.1 | 2166.9 | 2143.5 | 2131.8 | 2116.2 | 2112.4 | 2104.7 | 2100.7 | 2100.7 |
| 27.5° | 2104.7 | 2077.4 | 2042.4 | 2030.7 | 2015.1 | 2007.4 | 2007.4 | 2003.4 | 1995.7 | 1999.6 |
| 30° | 1972.3 | 1941.2 | 1921.7 | 1914.0 | 1898.5 | 1898.5 | 1894.5 | 1886.8 | 1886.8 | 1890.6 |
| 32.5° | 1844.0 | 1812.9 | 1797.3 | 1793.4 | 1777.8 | 1777.8 | 1774.0 | 1777.8 | 1777.8 | 1781.7 |
| 35° | 1703.9 | 1676.7 | 1672.8 | 1661.1 | 1657.3 | 1657.3 | 1657.3 | 1665.0 | 1672.8 | 1661.1 |
| 37.5° | 1571.6 | 1552.2 | 1540.5 | 1536.7 | 1540.5 | 1540.5 | 1544.4 | 1556.1 | 1552.2 | 1548.3 |
| 40° | 1435.5 | 1420.0 | 1412.2 | 1412.2 | 1420.0 | 1427.7 | 1427.7 | 1439.4 | 1443.2 | 1439.4 |
| 42.5° | 1299.3 | 1287.7 | 1287.7 | 1291.5 | 1299.3 | 1303.2 | 1314.9 | 1326.6 | 1330.4 | 1334.3 |
| 45° | 1171.0 | 1171.0 | 1171.0 | 1174.8 | 1178.7 | 1186.5 | 1202.1 | 1213.8 | 1217.6 | 1221.5 |
| 47.5° | 1046.5 | 1042.6 | 1054.2 | 1058.2 | 1069.9 | 1073.7 | 1085.4 | 1101.0 | 1104.8 | 1108.7 |
| 50° | 929.7 | 937.5 | 941.4 | 953.1 | 960.9 | 960.9 | 976.5 | 984.2 | 995.9 | 995.9 |
| 52.5° | 820.9 | 832.6 | 836.4 | 848.1 | 852.0 | 855.8 | 863.7 | 875.3 | 883.1 | 883.1 |
| 55° | 723.6 | 727.5 | 735.3 | 739.2 | 750.8 | 754.7 | 762.5 | 766.4 | 778.1 | 774.1 |
| 56° | 680.8 | 688.5 | 692.5 | 700.2 | 708.1 | 711.9 | 719.6 | 723.6 | 731.3 | 735.3 |
| 57° | 641.9 | 645.8 | 657.4 | 661.3 | 669.1 | 669.1 | 673.0 | 684.7 | 684.7 | 688.5 |
| 58° | 603.0 | 610.8 | 614.7 | 618.5 | 626.4 | 630.2 | 638.0 | 641.9 | 645.8 | 641.9 |
| 59° | 568.0 | 571.9 | 575.7 | 575.7 | 583.6 | 583.6 | 595.3 | 603.0 | 606.8 | 606.8 |
| 60° | 532.9 | 532.9 | 536.8 | 540.8 | 548.5 | 552.5 | 552.5 | 560.2 | 560.2 | 560.2 |
| 61° | 498.0 | 498.0 | 501.9 | 505.7 | 509.6 | 509.6 | 517.4 | 517.4 | 521.3 | 525.2 |
| 62° | 466.8 | 462.9 | 462.9 | 466.8 | 466.8 | 474.6 | 478.5 | 482.3 | 486.3 | 482.3 |
| 63° | 431.8 | 428.0 | 428.0 | 428.0 | 428.0 | 435.7 | 435.7 | 439.5 | 447.4 | 443.5 |
| 64° | 392.9 | 392.9 | 392.9 | 392.9 | 396.8 | 396.8 | 404.6 | 408.4 | 412.3 | 416.3 |
| 65° | 365.7 | 357.9 | 354.0 | 354.0 | 357.9 | 361.8 | 365.7 | 369.5 | 373.5 | 373.5 |
| 66° | 334.6 | 326.7 | 322.9 | 322.9 | 322.9 | 322.9 | 330.7 | 330.7 | 338.4 | 338.4 |
| 67° | 299.5 | 291.8 | 287.9 | 284.0 | 284.0 | 284.0 | 295.6 | 291.8 | 291.8 | 291.8 |
| 67.5° | 287.9 | 276.2 | 272.3 | 268.4 | 264.5 | 272.3 | 268.4 | 272.3 | 272.3 | 268.4 |
| 68° | 272.3 | 264.5 | 256.7 | 249.0 | 249.0 | 249.0 | 252.9 | 256.7 | 252.9 | 249.0 |
| 69° | 241.2 | 237.3 | 225.6 | 217.9 | 213.9 | 217.9 | 213.9 | 217.9 | 213.9 | 217.9 |
| 70° | 213.9 | 202.2 | 190.7 | 186.7 | 182.8 | 182.8 | 182.8 | 179.0 | 182.8 | 179.0 |
| 71° | 186.7 | 175.1 | 163.4 | 155.6 | 151.7 | 151.7 | 147.9 | 151.7 | 147.9 | 151.7 |
| 72° | 159.5 | 147.9 | 132.2 | 124.5 | 124.5 | 124.5 | 124.5 | 120.6 | 124.5 | 120.6 |
| 72.5° | 147.9 | 132.2 | 120.6 | 112.8 | 109.0 | 109.0 | 109.0 | 109.0 | 105.1 | 109.0 |
| 73° | 136.2 | 120.6 | 105.1 | 101.1 | 101.1 | 101.1 | 97.3 | 93.4 | 97.3 | 97.3 |



TEST NUMBER: P593801

CATALOG NUMBER: HC850D010-HM82555850-81RWWH

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 46.6 | 35.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 27.2 | 27.2 |
| 80° | 19.4 | 15.5 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 82.5° | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| 85° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 87.5° | 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 |



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— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74° | 252.9 | 252.9 | 245.1 | 233.4 | 213.9 | 194.5 | 179.0 | 163.4 | 143.9 | 124.5 | 116.7 |
| 75° | 233.4 | 229.5 | 221.8 | 210.1 | 194.5 | 175.1 | 159.5 | 140.0 | 124.5 | 105.1 | 97.3 |





| | | | | | | | | | | |
|-----|-------|------|------|------|------|------|------|------|------|------|
| 74° | 112.8 | 93.4 | 85.6 | 77.9 | 77.9 | 77.9 | 73.9 | 73.9 | 73.9 | 77.9 |
| 75° | 89.4 | 73.9 | 66.2 | 58.3 | 62.2 | 58.3 | 62.2 | 58.3 | 58.3 | 58.3 |



(END OF REPORT)