

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: P584837

Luminaire Tested: **HC850D010-HM82555840-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584837  
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: HC850D010-HM82555840-81RWWC  
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: 5537.7 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

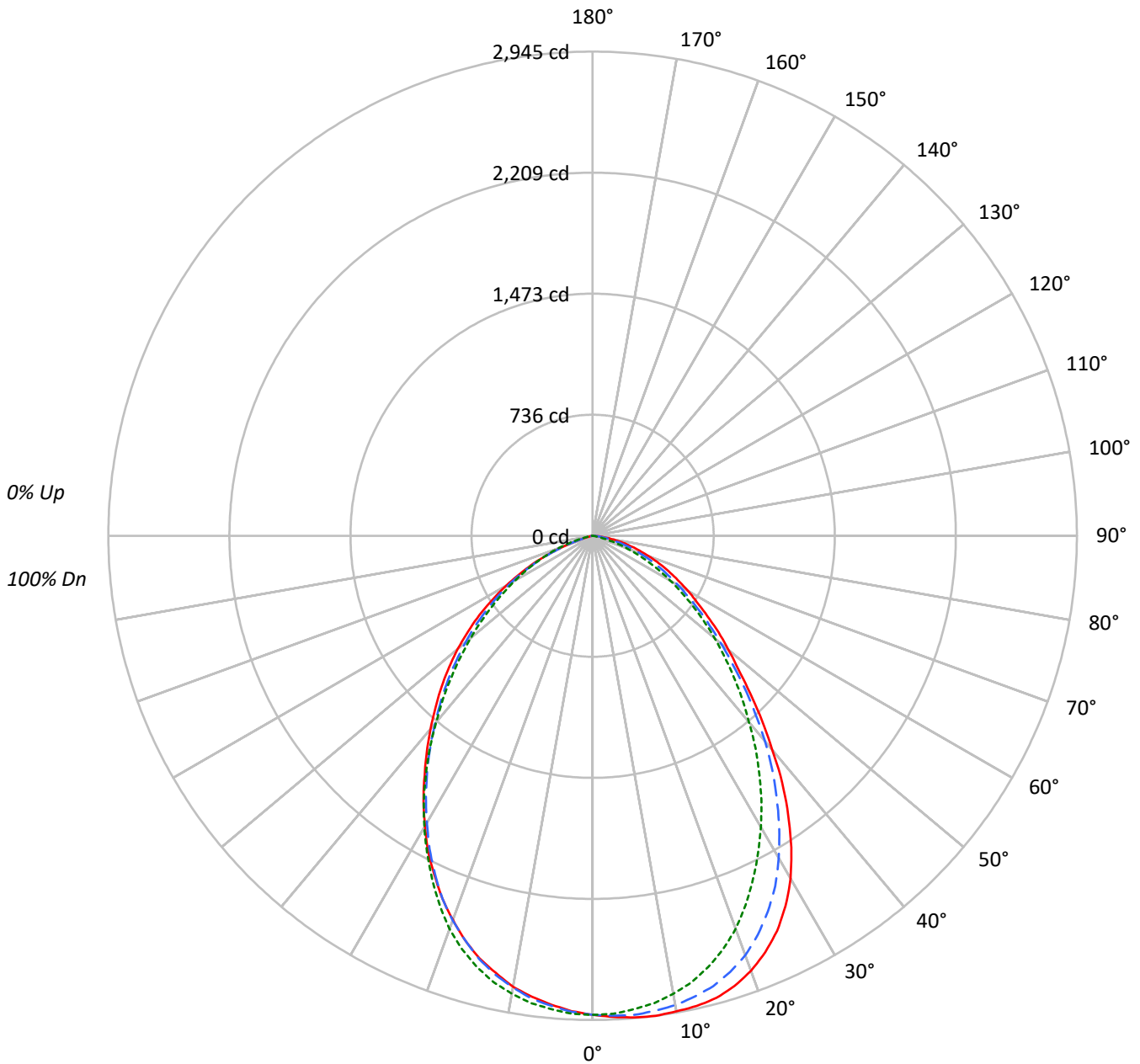
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 84  | 82  | 79  | 77  |    |    | 77  |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |    | 67  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    | 59  |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    | 52  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 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  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 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°  | 89848 | 89848 | 89848 |
| 5°  | 91036 | 89470 | 88625 |
| 10° | 91967 | 88557 | 87216 |
| 15° | 92896 | 86687 | 84947 |
| 20° | 92424 | 83489 | 81572 |
| 25° | 90266 | 78490 | 77429 |
| 30° | 85741 | 72858 | 72581 |
| 35° | 78055 | 66483 | 67071 |
| 40° | 68432 | 59503 | 61697 |
| 45° | 59038 | 52933 | 56661 |
| 50° | 51695 | 46466 | 51321 |
| 55° | 45805 | 39945 | 45176 |
| 60° | 41265 | 33587 | 37423 |
| 65° | 37183 | 26961 | 28668 |
| 70° | 32620 | 19646 | 15778 |
| 75° | 27808 | 10199 | 4170  |
| 80° | 21416 | 2752  | 693   |
| 85° | 13763 | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 274.9  | 5.0       |
| 10°-20°   | 772.8  | 14.0      |
| 20°-30°   | 1096.9 | 19.8      |
| 30°-40°   | 1154.6 | 20.9      |
| 40°-50°   | 982.3  | 17.7      |
| 50°-60°   | 709.8  | 12.8      |
| 60°-70°   | 403.7  | 7.3       |
| 70°-80°   | 127.2  | 2.3       |
| 80°-90°   | 15.5   | 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°    | 2144.6 | 38.7      |
| 0°-40°    | 3299.3 | 59.6      |
| 0°-60°    | 4991.3 | 90.1      |
| 0°-90°    | 5537.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5537.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2914 | 2914 | 2914 | 2914 | 2914 |      |
| 5°  | 2941 | 2925 | 2890 | 2871 | 2863 | 281  |
| 15° | 2910 | 2836 | 2715 | 2665 | 2661 | 819  |
| 25° | 2653 | 2521 | 2307 | 2268 | 2276 | 1215 |
| 35° | 2074 | 1953 | 1766 | 1754 | 1782 | 1290 |
| 45° | 1354 | 1303 | 1214 | 1245 | 1299 | 1052 |
| 55° | 852  | 790  | 743  | 786  | 840  | 768  |
| 65° | 510  | 440  | 370  | 366  | 393  | 505  |
| 75° | 233  | 179  | 86   | 39   | 35   | 251  |
| 85° | 39   | 23   | 0    | 0    | 0    | 50   |
| 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°    | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 |
| 2.5°  | 2929.3 | 2933.1 | 2925.4 | 2925.4 | 2933.1 | 2925.4 | 2929.3 | 2929.3 | 2925.4 | 2925.4 | 2921.4 |
| 5°    | 2941.0 | 2937.1 | 2937.1 | 2937.1 | 2941.0 | 2933.1 | 2929.3 | 2933.1 | 2925.4 | 2925.4 | 2925.4 |
| 7.5°  | 2944.8 | 2944.8 | 2941.0 | 2937.1 | 2937.1 | 2937.1 | 2933.1 | 2929.3 | 2925.4 | 2917.6 | 2913.7 |
| 10°   | 2937.1 | 2937.1 | 2941.0 | 2933.1 | 2933.1 | 2925.4 | 2925.4 | 2917.6 | 2917.6 | 2909.9 | 2898.2 |
| 12.5° | 2929.3 | 2925.4 | 2925.4 | 2917.6 | 2917.6 | 2909.9 | 2909.9 | 2898.2 | 2894.3 | 2882.6 | 2870.9 |
| 15°   | 2909.9 | 2905.9 | 2898.2 | 2894.3 | 2890.4 | 2886.5 | 2878.7 | 2874.8 | 2863.1 | 2847.6 | 2835.9 |
| 17.5° | 2870.9 | 2867.1 | 2863.1 | 2855.4 | 2847.6 | 2843.7 | 2839.9 | 2828.2 | 2812.6 | 2800.9 | 2781.4 |
| 20°   | 2816.5 | 2812.6 | 2812.6 | 2800.9 | 2797.1 | 2785.4 | 2781.4 | 2765.9 | 2754.3 | 2730.9 | 2715.4 |
| 22.5° | 2742.6 | 2746.4 | 2738.6 | 2730.9 | 2723.1 | 2711.4 | 2703.7 | 2688.1 | 2668.6 | 2645.3 | 2625.8 |
| 25°   | 2653.0 | 2657.0 | 2649.2 | 2641.4 | 2629.8 | 2622.0 | 2614.2 | 2590.9 | 2571.3 | 2544.2 | 2520.8 |
| 27.5° | 2540.2 | 2540.2 | 2540.2 | 2532.5 | 2513.0 | 2509.1 | 2501.3 | 2478.0 | 2450.8 | 2427.4 | 2404.2 |
| 30°   | 2408.0 | 2404.2 | 2404.2 | 2392.5 | 2384.6 | 2369.1 | 2357.4 | 2338.0 | 2318.5 | 2291.4 | 2264.1 |
| 32.5° | 2248.5 | 2252.4 | 2240.7 | 2232.9 | 2221.3 | 2221.3 | 2205.7 | 2190.1 | 2166.9 | 2139.6 | 2112.4 |
| 35°   | 2073.5 | 2077.3 | 2069.6 | 2065.6 | 2046.2 | 2042.4 | 2038.4 | 2019.0 | 2003.4 | 1984.0 | 1952.8 |
| 37.5° | 1894.5 | 1890.6 | 1886.8 | 1886.8 | 1875.1 | 1867.2 | 1859.5 | 1847.8 | 1824.5 | 1808.9 | 1793.4 |
| 40°   | 1700.0 | 1700.0 | 1700.0 | 1696.1 | 1692.2 | 1684.4 | 1680.6 | 1672.7 | 1657.2 | 1641.6 | 1629.9 |
| 42.5° | 1525.0 | 1525.0 | 1521.1 | 1517.1 | 1509.4 | 1513.3 | 1505.4 | 1497.7 | 1482.2 | 1470.5 | 1462.7 |
| 45°   | 1353.8 | 1353.8 | 1353.8 | 1357.7 | 1349.8 | 1338.2 | 1338.2 | 1330.4 | 1322.6 | 1314.9 | 1303.2 |
| 47.5° | 1202.1 | 1213.8 | 1205.9 | 1202.1 | 1205.9 | 1190.4 | 1190.4 | 1182.6 | 1174.8 | 1167.0 | 1151.5 |
| 50°   | 1077.6 | 1077.6 | 1077.6 | 1069.8 | 1065.9 | 1065.9 | 1054.2 | 1046.5 | 1042.5 | 1034.8 | 1019.3 |
| 52.5° | 964.8  | 956.9  | 956.9  | 953.1  | 949.2  | 941.4  | 941.4  | 933.7  | 918.1  | 910.3  | 898.6  |
| 55°   | 852.0  | 852.0  | 848.1  | 844.1  | 840.3  | 836.4  | 832.4  | 820.9  | 813.0  | 801.3  | 789.7  |
| 57.5° | 750.8  | 758.6  | 754.7  | 746.9  | 739.2  | 739.2  | 731.3  | 723.6  | 711.9  | 700.2  | 688.5  |
| 60°   | 669.1  | 665.2  | 665.2  | 661.3  | 653.6  | 649.6  | 645.8  | 634.1  | 622.4  | 610.8  | 599.1  |
| 62.5° | 583.6  | 583.6  | 583.6  | 575.7  | 568.0  | 564.0  | 560.2  | 552.4  | 536.8  | 525.1  | 517.4  |
| 65°   | 509.6  | 505.7  | 501.9  | 498.0  | 494.0  | 486.3  | 482.3  | 474.6  | 462.9  | 451.2  | 439.5  |
| 67.5° | 435.7  | 431.8  | 431.8  | 428.0  | 416.3  | 412.3  | 412.3  | 400.7  | 389.0  | 377.4  | 365.7  |
| 70°   | 361.8  | 361.8  | 361.8  | 354.0  | 350.1  | 346.3  | 342.3  | 334.6  | 322.9  | 311.2  | 299.5  |
| 72.5° | 299.5  | 295.6  | 295.6  | 291.8  | 280.1  | 276.2  | 272.3  | 264.5  | 252.9  | 245.0  | 237.3  |
| 75°   | 233.4  | 233.4  | 229.5  | 225.6  | 221.8  | 217.9  | 213.9  | 206.2  | 194.5  | 182.8  | 179.0  |
| 77.5° | 179.0  | 175.0  | 175.0  | 171.1  | 163.4  | 159.5  | 159.5  | 151.7  | 140.0  | 132.2  | 124.5  |
| 80°   | 120.6  | 124.5  | 120.6  | 116.7  | 112.8  | 109.0  | 105.0  | 101.1  | 93.4   | 85.6   | 77.9   |
| 82.5° | 73.9   | 77.9   | 73.9   | 73.9   | 70.0   | 66.2   | 66.2   | 58.3   | 54.5   | 50.6   | 46.6   |
| 85°   | 38.9   | 38.9   | 38.9   | 38.9   | 35.0   | 35.0   | 35.0   | 31.1   | 27.2   | 23.4   | 23.4   |
| 87.5° | 11.7   | 15.5   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   | 7.8    | 7.8    | 7.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 |
| 2.5°  | 2925.4 | 2921.4 | 2917.6 | 2917.6 | 2917.6 | 2917.6 | 2917.6 | 2913.7 | 2909.9 | 2909.9 | 2909.9 |
| 5°    | 2917.6 | 2917.6 | 2917.6 | 2913.7 | 2909.9 | 2909.9 | 2902.0 | 2898.2 | 2894.3 | 2890.4 | 2886.5 |
| 7.5°  | 2909.9 | 2902.0 | 2898.2 | 2894.3 | 2890.4 | 2890.4 | 2882.6 | 2874.8 | 2874.8 | 2867.1 | 2859.3 |
| 10°   | 2886.5 | 2882.6 | 2874.8 | 2867.1 | 2863.1 | 2859.3 | 2851.4 | 2839.9 | 2835.9 | 2828.2 | 2820.3 |
| 12.5° | 2859.3 | 2851.4 | 2843.7 | 2828.2 | 2824.3 | 2820.3 | 2804.8 | 2793.1 | 2785.4 | 2781.4 | 2762.0 |
| 15°   | 2824.3 | 2808.6 | 2797.1 | 2777.5 | 2773.7 | 2765.9 | 2754.3 | 2742.6 | 2727.0 | 2715.4 | 2707.5 |
| 17.5° | 2762.0 | 2746.4 | 2727.0 | 2707.5 | 2699.8 | 2699.8 | 2680.3 | 2664.7 | 2645.3 | 2637.5 | 2622.0 |
| 20°   | 2688.1 | 2668.6 | 2653.0 | 2629.8 | 2618.1 | 2606.4 | 2594.7 | 2571.3 | 2555.8 | 2544.2 | 2524.7 |
| 22.5° | 2602.5 | 2575.3 | 2555.8 | 2532.5 | 2513.0 | 2501.3 | 2481.9 | 2462.5 | 2443.0 | 2431.3 | 2415.7 |
| 25°   | 2493.6 | 2470.2 | 2439.1 | 2415.7 | 2404.2 | 2388.5 | 2365.2 | 2345.7 | 2326.3 | 2306.9 | 2299.1 |
| 27.5° | 2373.0 | 2341.9 | 2314.6 | 2287.4 | 2275.7 | 2264.1 | 2236.9 | 2213.5 | 2198.0 | 2178.4 | 2170.7 |
| 30°   | 2240.7 | 2209.6 | 2178.4 | 2155.2 | 2143.5 | 2124.1 | 2108.4 | 2081.3 | 2061.8 | 2046.2 | 2026.8 |
| 32.5° | 2089.0 | 2065.6 | 2038.4 | 2003.4 | 1995.6 | 1980.1 | 1956.8 | 1945.1 | 1921.7 | 1910.0 | 1894.5 |
| 35°   | 1925.6 | 1910.0 | 1882.8 | 1855.6 | 1844.0 | 1836.1 | 1816.7 | 1793.4 | 1777.8 | 1766.1 | 1758.3 |
| 37.5° | 1770.0 | 1750.6 | 1723.3 | 1703.9 | 1696.1 | 1684.4 | 1661.1 | 1649.5 | 1633.9 | 1626.1 | 1610.5 |
| 40°   | 1602.7 | 1583.3 | 1563.9 | 1552.2 | 1540.5 | 1532.7 | 1517.1 | 1505.4 | 1489.9 | 1478.2 | 1474.3 |
| 42.5° | 1439.4 | 1427.7 | 1412.2 | 1396.6 | 1392.6 | 1381.1 | 1373.2 | 1361.5 | 1349.8 | 1346.0 | 1334.3 |
| 45°   | 1291.5 | 1279.8 | 1264.3 | 1248.7 | 1244.9 | 1237.0 | 1233.2 | 1221.5 | 1213.8 | 1213.8 | 1213.8 |
| 47.5° | 1143.7 | 1132.1 | 1116.5 | 1108.7 | 1112.5 | 1097.0 | 1097.0 | 1093.1 | 1085.3 | 1085.3 | 1089.3 |
| 50°   | 1011.4 | 995.9  | 992.0  | 984.2  | 976.5  | 968.6  | 972.5  | 960.9  | 960.9  | 968.6  | 964.8  |
| 52.5° | 886.9  | 871.4  | 867.5  | 859.7  | 855.8  | 855.8  | 852.0  | 852.0  | 848.1  | 852.0  | 852.0  |
| 55°   | 774.1  | 762.4  | 754.7  | 746.9  | 743.0  | 743.0  | 743.0  | 739.2  | 735.2  | 743.0  | 746.9  |
| 57.5° | 673.0  | 669.1  | 661.3  | 649.6  | 645.8  | 641.9  | 638.0  | 638.0  | 638.0  | 638.0  | 641.9  |
| 60°   | 583.6  | 575.7  | 568.0  | 556.3  | 556.3  | 552.4  | 548.5  | 544.6  | 544.6  | 544.6  | 544.6  |
| 62.5° | 505.7  | 494.0  | 482.3  | 474.6  | 470.8  | 466.8  | 462.9  | 455.1  | 455.1  | 455.1  | 455.1  |
| 65°   | 428.0  | 416.3  | 408.4  | 400.7  | 392.9  | 392.9  | 385.1  | 381.2  | 373.5  | 369.5  | 361.8  |
| 67.5° | 354.0  | 346.3  | 338.4  | 326.7  | 322.9  | 319.0  | 311.2  | 307.3  | 295.6  | 291.8  | 287.9  |
| 70°   | 287.9  | 276.2  | 268.4  | 260.7  | 256.7  | 249.0  | 241.2  | 233.4  | 225.6  | 217.9  | 210.1  |
| 72.5° | 225.6  | 213.9  | 206.2  | 198.4  | 190.7  | 190.7  | 179.0  | 171.1  | 159.5  | 151.7  | 140.0  |
| 75°   | 167.3  | 155.6  | 147.9  | 136.2  | 132.2  | 128.4  | 116.7  | 109.0  | 97.3   | 85.6   | 77.9   |
| 77.5° | 112.8  | 105.0  | 97.3   | 85.6   | 77.9   | 77.9   | 66.2   | 58.3   | 50.6   | 38.9   | 35.0   |
| 80°   | 70.0   | 62.2   | 54.5   | 46.6   | 46.6   | 38.9   | 35.0   | 27.2   | 19.4   | 15.5   | 11.7   |
| 82.5° | 38.9   | 35.0   | 31.1   | 23.4   | 23.4   | 19.4   | 15.5   | 11.7   | 7.8    | 3.9    | 3.9    |
| 85°   | 19.4   | 15.5   | 11.7   | 11.7   | 7.8    | 7.8    | 7.8    | 3.9    | 3.9    | 0.0    | 0.0    |
| 87.5° | 7.8    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 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    |



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CATALOG NUMBER: HC850D010-HM82555840-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 |
| 2.5°  | 2905.9 | 2905.9 | 2902.0 | 2902.0 | 2902.0 | 2898.2 | 2902.0 | 2898.2 | 2898.2 | 2898.2 | 2902.0 |
| 5°    | 2890.4 | 2882.6 | 2882.6 | 2878.7 | 2878.7 | 2874.8 | 2878.7 | 2874.8 | 2870.9 | 2867.1 | 2870.9 |
| 7.5°  | 2859.3 | 2851.4 | 2847.6 | 2843.7 | 2843.7 | 2843.7 | 2839.9 | 2835.9 | 2839.9 | 2828.2 | 2835.9 |
| 10°   | 2816.5 | 2812.6 | 2804.8 | 2800.9 | 2797.1 | 2800.9 | 2797.1 | 2789.2 | 2789.2 | 2789.2 | 2785.4 |
| 12.5° | 2762.0 | 2754.3 | 2750.3 | 2746.4 | 2738.6 | 2738.6 | 2742.6 | 2734.8 | 2734.8 | 2727.0 | 2727.0 |
| 15°   | 2695.8 | 2688.1 | 2680.3 | 2680.3 | 2672.6 | 2672.6 | 2668.6 | 2668.6 | 2664.7 | 2660.9 | 2660.9 |
| 17.5° | 2614.2 | 2602.5 | 2594.7 | 2598.6 | 2594.7 | 2590.9 | 2590.9 | 2583.0 | 2579.2 | 2583.0 | 2583.0 |
| 20°   | 2517.0 | 2509.1 | 2501.3 | 2505.3 | 2497.5 | 2493.6 | 2497.5 | 2485.8 | 2489.7 | 2489.7 | 2489.7 |
| 22.5° | 2408.0 | 2404.2 | 2392.5 | 2392.5 | 2384.6 | 2380.8 | 2384.6 | 2384.6 | 2388.5 | 2384.6 | 2384.6 |
| 25°   | 2287.4 | 2279.7 | 2271.8 | 2271.8 | 2268.0 | 2264.1 | 2268.0 | 2271.8 | 2268.0 | 2271.8 | 2271.8 |
| 27.5° | 2159.0 | 2147.3 | 2147.3 | 2139.6 | 2139.6 | 2143.5 | 2139.6 | 2143.5 | 2147.3 | 2147.3 | 2155.2 |
| 30°   | 2019.0 | 2015.1 | 2011.3 | 2007.3 | 2007.3 | 2011.3 | 2011.3 | 2011.3 | 2015.1 | 2022.8 | 2022.8 |
| 32.5° | 1886.8 | 1878.9 | 1871.2 | 1871.2 | 1878.9 | 1875.1 | 1878.9 | 1878.9 | 1886.8 | 1886.8 | 1894.5 |
| 35°   | 1742.7 | 1742.7 | 1735.0 | 1738.9 | 1738.9 | 1738.9 | 1738.9 | 1746.7 | 1754.4 | 1758.3 | 1766.1 |
| 37.5° | 1610.5 | 1598.8 | 1602.7 | 1602.7 | 1606.7 | 1602.7 | 1614.4 | 1614.4 | 1622.2 | 1622.2 | 1629.9 |
| 40°   | 1466.6 | 1466.6 | 1470.5 | 1466.6 | 1470.5 | 1470.5 | 1478.2 | 1486.0 | 1489.9 | 1497.7 | 1501.6 |
| 42.5° | 1330.4 | 1338.2 | 1330.4 | 1334.3 | 1338.2 | 1342.1 | 1346.0 | 1349.8 | 1365.4 | 1373.2 | 1384.9 |
| 45°   | 1205.9 | 1209.8 | 1213.8 | 1217.6 | 1213.8 | 1221.5 | 1225.3 | 1233.2 | 1244.9 | 1248.7 | 1252.6 |
| 47.5° | 1085.3 | 1089.3 | 1093.1 | 1097.0 | 1097.0 | 1104.8 | 1108.7 | 1116.5 | 1124.2 | 1128.2 | 1132.1 |
| 50°   | 968.6  | 976.5  | 980.3  | 980.3  | 984.2  | 992.0  | 999.7  | 999.7  | 1007.6 | 1019.3 | 1023.1 |
| 52.5° | 863.7  | 863.7  | 871.4  | 875.2  | 879.2  | 879.2  | 890.9  | 894.8  | 898.6  | 906.4  | 914.2  |
| 55°   | 746.9  | 758.6  | 762.4  | 762.4  | 770.3  | 778.1  | 781.9  | 785.8  | 785.8  | 801.3  | 801.3  |
| 57.5° | 645.8  | 649.6  | 657.4  | 657.4  | 657.4  | 669.1  | 669.1  | 676.9  | 680.8  | 684.7  | 692.4  |
| 60°   | 544.6  | 552.4  | 552.4  | 556.3  | 552.4  | 560.2  | 564.0  | 571.9  | 575.7  | 579.6  | 583.6  |
| 62.5° | 451.2  | 451.2  | 455.1  | 455.1  | 455.1  | 455.1  | 462.9  | 462.9  | 470.8  | 474.6  | 478.5  |
| 65°   | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 361.8  | 365.7  | 365.7  | 373.5  |
| 67.5° | 280.1  | 276.2  | 268.4  | 272.3  | 268.4  | 268.4  | 264.5  | 264.5  | 268.4  | 268.4  | 276.2  |
| 70°   | 202.2  | 198.4  | 190.7  | 190.7  | 186.7  | 182.8  | 179.0  | 175.0  | 171.1  | 171.1  | 171.1  |
| 72.5° | 132.2  | 124.5  | 112.8  | 109.0  | 109.0  | 101.1  | 93.4   | 89.4   | 89.4   | 89.4   | 89.4   |
| 75°   | 66.2   | 58.3   | 50.6   | 46.6   | 46.6   | 38.9   | 42.8   | 38.9   | 38.9   | 38.9   | 38.9   |
| 77.5° | 27.2   | 19.4   | 15.5   | 15.5   | 15.5   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   |
| 80°   | 7.8    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 82.5° | 3.9    | 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: P584837

CATALOG NUMBER: HC850D010-HM82555840-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 | 2913.7 |
| 2.5°  | 2898.2 | 2898.2 | 2890.4 | 2894.3 | 2894.3 | 2894.3 | 2894.3 | 2894.3 |
| 5°    | 2863.1 | 2867.1 | 2863.1 | 2867.1 | 2867.1 | 2863.1 | 2863.1 | 2863.1 |
| 7.5°  | 2828.2 | 2832.0 | 2828.2 | 2832.0 | 2832.0 | 2832.0 | 2828.2 | 2828.2 |
| 10°   | 2785.4 | 2785.4 | 2785.4 | 2785.4 | 2785.4 | 2781.4 | 2785.4 | 2785.4 |
| 12.5° | 2727.0 | 2727.0 | 2727.0 | 2730.9 | 2730.9 | 2727.0 | 2727.0 | 2723.1 |
| 15°   | 2664.7 | 2657.0 | 2660.9 | 2664.7 | 2660.9 | 2660.9 | 2660.9 | 2660.9 |
| 17.5° | 2579.2 | 2583.0 | 2579.2 | 2579.2 | 2579.2 | 2579.2 | 2583.0 | 2579.2 |
| 20°   | 2489.7 | 2489.7 | 2493.6 | 2489.7 | 2489.7 | 2489.7 | 2489.7 | 2485.8 |
| 22.5° | 2388.5 | 2384.6 | 2384.6 | 2388.5 | 2388.5 | 2384.6 | 2388.5 | 2388.5 |
| 25°   | 2275.7 | 2279.7 | 2275.7 | 2275.7 | 2279.7 | 2279.7 | 2279.7 | 2275.7 |
| 27.5° | 2155.2 | 2159.0 | 2162.9 | 2159.0 | 2159.0 | 2159.0 | 2162.9 | 2166.9 |
| 30°   | 2030.7 | 2038.4 | 2030.7 | 2030.7 | 2038.4 | 2034.5 | 2038.4 | 2038.4 |
| 32.5° | 1898.3 | 1910.0 | 1902.3 | 1910.0 | 1910.0 | 1914.0 | 1910.0 | 1914.0 |
| 35°   | 1766.1 | 1777.8 | 1777.8 | 1777.8 | 1781.7 | 1785.5 | 1785.5 | 1781.7 |
| 37.5° | 1641.6 | 1645.5 | 1645.5 | 1653.3 | 1657.2 | 1661.1 | 1661.1 | 1657.2 |
| 40°   | 1513.3 | 1521.1 | 1525.0 | 1525.0 | 1525.0 | 1532.7 | 1540.5 | 1532.7 |
| 42.5° | 1388.8 | 1392.6 | 1396.6 | 1396.6 | 1404.3 | 1408.2 | 1412.2 | 1412.2 |
| 45°   | 1268.1 | 1276.0 | 1279.8 | 1283.8 | 1287.7 | 1295.4 | 1291.5 | 1299.3 |
| 47.5° | 1143.7 | 1155.3 | 1159.3 | 1163.2 | 1171.0 | 1174.8 | 1178.7 | 1182.6 |
| 50°   | 1030.9 | 1038.7 | 1038.7 | 1046.5 | 1058.2 | 1058.2 | 1065.9 | 1069.8 |
| 52.5° | 918.1  | 922.0  | 925.8  | 929.7  | 937.5  | 945.3  | 945.3  | 953.1  |
| 55°   | 809.2  | 813.0  | 813.0  | 816.9  | 820.9  | 836.4  | 840.3  | 840.3  |
| 57.5° | 696.4  | 696.4  | 704.1  | 708.1  | 711.9  | 719.6  | 719.6  | 719.6  |
| 60°   | 587.4  | 591.3  | 591.3  | 595.1  | 599.1  | 606.8  | 610.8  | 606.8  |
| 62.5° | 478.5  | 482.3  | 482.3  | 486.3  | 494.0  | 498.0  | 494.0  | 494.0  |
| 65°   | 377.4  | 381.2  | 381.2  | 385.1  | 392.9  | 392.9  | 389.0  | 392.9  |
| 67.5° | 276.2  | 276.2  | 276.2  | 276.2  | 276.2  | 276.2  | 276.2  | 276.2  |
| 70°   | 175.0  | 171.1  | 167.3  | 171.1  | 171.1  | 171.1  | 167.3  | 175.0  |
| 72.5° | 85.6   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 85.6   |
| 75°   | 38.9   | 38.9   | 35.0   | 35.0   | 35.0   | 38.9   | 38.9   | 35.0   |
| 77.5° | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   | 11.7   |
| 80°   | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 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)