

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: P585160

Luminaire Tested: **HC860D010-HM86080935-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585160  
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-HM86080935-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5260.1 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

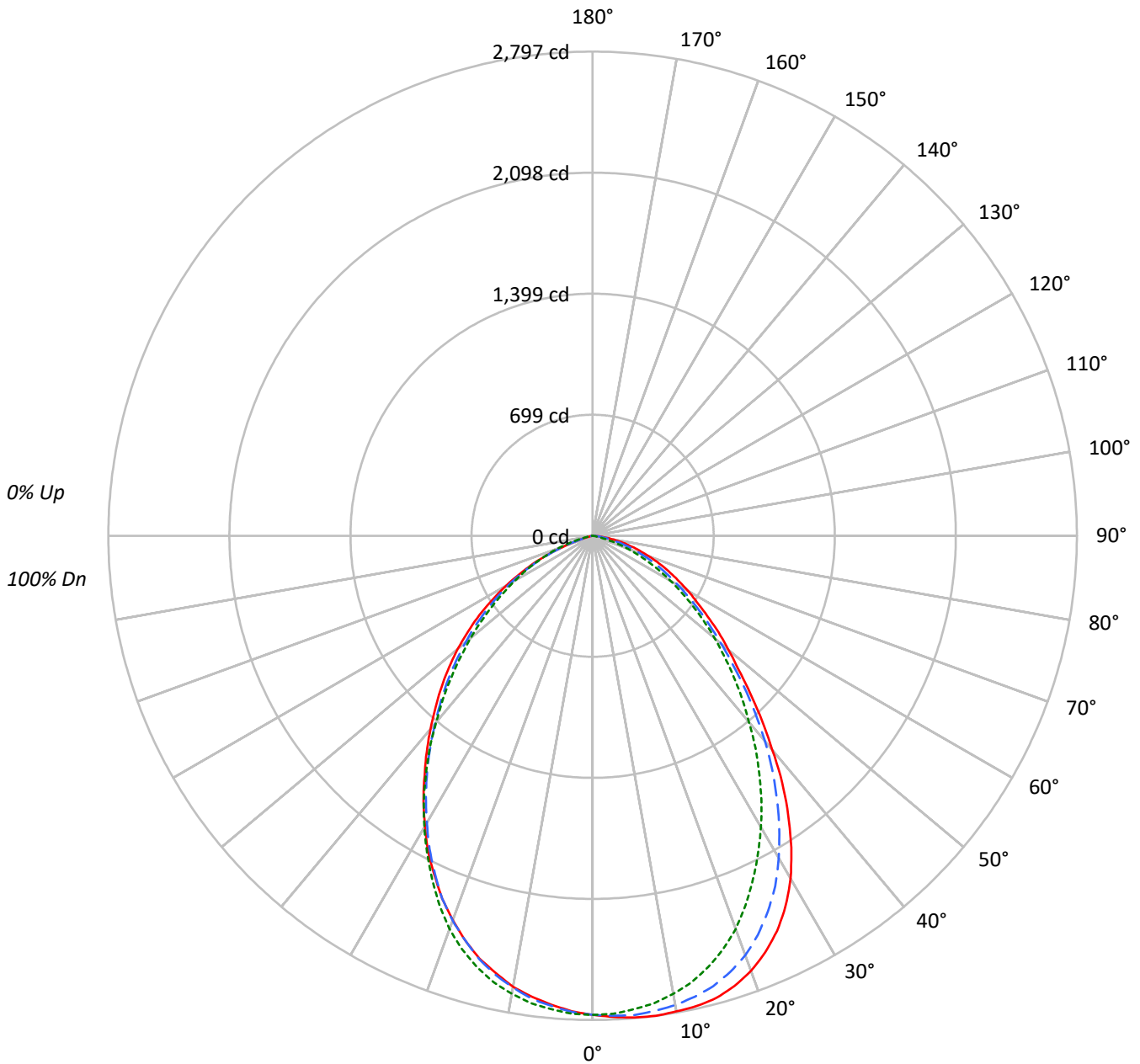
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: HC860D010-HM86080935-81RWWC

### Luminous Intensity Polar Plot





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**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°  | 85346 | 85346 | 85346 |
| 5°  | 86470 | 84981 | 84183 |
| 10° | 87354 | 84117 | 82842 |
| 15° | 88238 | 82339 | 80685 |
| 20° | 87791 | 79302 | 77484 |
| 25° | 85744 | 74554 | 73550 |
| 30° | 81443 | 69205 | 68942 |
| 35° | 74140 | 63152 | 63709 |
| 40° | 65002 | 56521 | 58606 |
| 45° | 56077 | 50277 | 53818 |
| 50° | 49100 | 44140 | 48745 |
| 55° | 43504 | 37945 | 42912 |
| 60° | 39193 | 31903 | 35554 |
| 65° | 35322 | 25618 | 27231 |
| 70° | 30979 | 18654 | 14994 |
| 75° | 26414 | 9686  | 3956  |
| 80° | 20333 | 2628  | 657   |
| 85° | 13055 | 0     | 0     |



TEST NUMBER: P585160

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 261.1  | 5.0       |
| 10°-20°   | 734.1  | 14.0      |
| 20°-30°   | 1041.9 | 19.8      |
| 30°-40°   | 1096.8 | 20.9      |
| 40°-50°   | 933.0  | 17.7      |
| 50°-60°   | 674.2  | 12.8      |
| 60°-70°   | 383.5  | 7.3       |
| 70°-80°   | 120.8  | 2.3       |
| 80°-90°   | 14.7   | 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°    | 2037.1 | 38.7      |
| 0°-40°    | 3133.9 | 59.6      |
| 0°-60°    | 4741.1 | 90.1      |
| 0°-90°    | 5260.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5260.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2768 | 2768 | 2768 | 2768 | 2768 |      |
| 5°  | 2794 | 2779 | 2745 | 2727 | 2720 | 267  |
| 15° | 2764 | 2694 | 2579 | 2531 | 2527 | 778  |
| 25° | 2520 | 2394 | 2191 | 2154 | 2162 | 1154 |
| 35° | 1970 | 1855 | 1678 | 1666 | 1692 | 1226 |
| 45° | 1286 | 1238 | 1153 | 1182 | 1234 | 1000 |
| 55° | 809  | 750  | 706  | 746  | 798  | 730  |
| 65° | 484  | 418  | 351  | 347  | 373  | 480  |
| 75° | 222  | 170  | 81   | 37   | 33   | 239  |
| 85° | 37   | 22   | 0    | 0    | 0    | 48   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P585160

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 |
| 2.5°  | 2782.5 | 2786.2 | 2778.8 | 2778.8 | 2786.2 | 2778.8 | 2782.5 | 2782.5 | 2778.8 | 2778.8 | 2775.1 |
| 5°    | 2793.5 | 2789.8 | 2789.8 | 2789.8 | 2793.5 | 2786.2 | 2782.5 | 2786.2 | 2778.8 | 2778.8 | 2778.8 |
| 7.5°  | 2797.2 | 2797.2 | 2793.5 | 2789.8 | 2789.8 | 2789.8 | 2786.2 | 2782.5 | 2778.8 | 2771.4 | 2767.7 |
| 10°   | 2789.8 | 2789.8 | 2793.5 | 2786.2 | 2786.2 | 2778.8 | 2778.8 | 2771.4 | 2771.4 | 2764.0 | 2752.9 |
| 12.5° | 2782.5 | 2778.8 | 2778.8 | 2771.4 | 2771.4 | 2764.0 | 2764.0 | 2752.9 | 2749.1 | 2738.1 | 2727.0 |
| 15°   | 2764.0 | 2760.3 | 2752.9 | 2749.1 | 2745.4 | 2741.7 | 2734.4 | 2730.7 | 2719.6 | 2704.8 | 2693.8 |
| 17.5° | 2727.0 | 2723.3 | 2719.6 | 2712.2 | 2704.8 | 2701.1 | 2697.5 | 2686.4 | 2671.6 | 2660.5 | 2642.0 |
| 20°   | 2675.3 | 2671.6 | 2671.6 | 2660.5 | 2656.9 | 2645.7 | 2642.0 | 2627.2 | 2616.1 | 2594.0 | 2579.2 |
| 22.5° | 2605.1 | 2608.8 | 2601.4 | 2594.0 | 2586.6 | 2575.5 | 2568.2 | 2553.4 | 2534.8 | 2512.7 | 2494.2 |
| 25°   | 2520.1 | 2523.8 | 2516.4 | 2509.0 | 2497.9 | 2490.5 | 2483.2 | 2461.0 | 2442.4 | 2416.6 | 2394.5 |
| 27.5° | 2412.9 | 2412.9 | 2412.9 | 2405.5 | 2387.1 | 2383.4 | 2376.0 | 2353.9 | 2327.9 | 2305.8 | 2283.6 |
| 30°   | 2287.3 | 2283.6 | 2283.6 | 2272.5 | 2265.2 | 2250.4 | 2239.2 | 2220.8 | 2202.3 | 2176.5 | 2150.6 |
| 32.5° | 2135.8 | 2139.4 | 2128.4 | 2121.0 | 2109.9 | 2109.9 | 2095.2 | 2080.4 | 2058.2 | 2032.3 | 2006.5 |
| 35°   | 1969.5 | 1973.2 | 1965.9 | 1962.2 | 1943.6 | 1939.9 | 1936.2 | 1917.8 | 1903.0 | 1884.5 | 1855.0 |
| 37.5° | 1799.5 | 1795.8 | 1792.2 | 1792.2 | 1781.1 | 1773.7 | 1766.3 | 1755.2 | 1733.0 | 1718.2 | 1703.5 |
| 40°   | 1614.8 | 1614.8 | 1614.8 | 1611.1 | 1607.4 | 1600.0 | 1596.3 | 1588.9 | 1574.2 | 1559.4 | 1548.2 |
| 42.5° | 1448.4 | 1448.4 | 1444.7 | 1441.1 | 1433.7 | 1437.4 | 1430.0 | 1422.6 | 1407.8 | 1396.8 | 1389.4 |
| 45°   | 1285.9 | 1285.9 | 1285.9 | 1289.6 | 1282.2 | 1271.2 | 1271.2 | 1263.8 | 1256.4 | 1248.9 | 1237.8 |
| 47.5° | 1141.8 | 1152.9 | 1145.4 | 1141.8 | 1145.4 | 1130.7 | 1130.7 | 1123.3 | 1115.9 | 1108.5 | 1093.8 |
| 50°   | 1023.5 | 1023.5 | 1023.5 | 1016.1 | 1012.5 | 1012.5 | 1001.4 | 994.0  | 990.3  | 982.9  | 968.2  |
| 52.5° | 916.4  | 909.0  | 909.0  | 905.3  | 901.6  | 894.2  | 894.2  | 886.8  | 872.1  | 864.7  | 853.6  |
| 55°   | 809.2  | 809.2  | 805.5  | 801.8  | 798.2  | 794.5  | 790.8  | 779.7  | 772.3  | 761.2  | 750.2  |
| 57.5° | 713.1  | 720.5  | 716.8  | 709.5  | 702.1  | 702.1  | 694.7  | 687.3  | 676.2  | 665.2  | 654.1  |
| 60°   | 635.5  | 631.8  | 631.8  | 628.1  | 620.8  | 617.1  | 613.4  | 602.3  | 591.2  | 580.2  | 569.1  |
| 62.5° | 554.3  | 554.3  | 554.3  | 546.8  | 539.4  | 535.8  | 532.1  | 524.7  | 509.9  | 498.8  | 491.5  |
| 65°   | 484.1  | 480.4  | 476.7  | 473.0  | 469.3  | 461.9  | 458.2  | 450.9  | 439.7  | 428.6  | 417.5  |
| 67.5° | 413.8  | 410.1  | 410.1  | 406.5  | 395.4  | 391.7  | 391.7  | 380.6  | 369.5  | 358.5  | 347.3  |
| 70°   | 343.6  | 343.6  | 343.6  | 336.2  | 332.5  | 328.8  | 325.1  | 317.8  | 306.7  | 295.6  | 284.5  |
| 72.5° | 284.5  | 280.9  | 280.9  | 277.2  | 266.1  | 262.4  | 258.7  | 251.3  | 240.1  | 232.8  | 225.4  |
| 75°   | 221.7  | 221.7  | 218.0  | 214.3  | 210.6  | 206.9  | 203.2  | 195.8  | 184.8  | 173.7  | 170.0  |
| 77.5° | 170.0  | 166.3  | 166.3  | 162.6  | 155.2  | 151.6  | 151.6  | 144.1  | 133.0  | 125.6  | 118.2  |
| 80°   | 114.5  | 118.2  | 114.5  | 110.8  | 107.2  | 103.5  | 99.8   | 96.1   | 88.7   | 81.3   | 73.9   |
| 82.5° | 70.2   | 73.9   | 70.2   | 70.2   | 66.6   | 62.9   | 62.9   | 55.5   | 51.8   | 48.0   | 44.3   |
| 85°   | 36.9   | 36.9   | 36.9   | 36.9   | 33.2   | 33.2   | 33.2   | 29.5   | 25.8   | 22.1   | 22.1   |
| 87.5° | 11.1   | 14.8   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 7.4    | 7.4    | 7.4    |
| 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: P585160

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 |
| 2.5°  | 2778.8 | 2775.1 | 2771.4 | 2771.4 | 2771.4 | 2771.4 | 2771.4 | 2767.7 | 2764.0 | 2764.0 | 2764.0 |
| 5°    | 2771.4 | 2771.4 | 2771.4 | 2767.7 | 2764.0 | 2764.0 | 2756.6 | 2752.9 | 2749.1 | 2745.4 | 2741.7 |
| 7.5°  | 2764.0 | 2756.6 | 2752.9 | 2749.1 | 2745.4 | 2745.4 | 2738.1 | 2730.7 | 2730.7 | 2723.3 | 2715.9 |
| 10°   | 2741.7 | 2738.1 | 2730.7 | 2723.3 | 2719.6 | 2715.9 | 2708.5 | 2697.5 | 2693.8 | 2686.4 | 2679.0 |
| 12.5° | 2715.9 | 2708.5 | 2701.1 | 2686.4 | 2682.7 | 2679.0 | 2664.2 | 2653.2 | 2645.7 | 2642.0 | 2623.5 |
| 15°   | 2682.7 | 2667.9 | 2656.9 | 2638.3 | 2634.6 | 2627.2 | 2616.1 | 2605.1 | 2590.3 | 2579.2 | 2571.9 |
| 17.5° | 2623.5 | 2608.8 | 2590.3 | 2571.9 | 2564.5 | 2564.5 | 2545.9 | 2531.1 | 2512.7 | 2505.3 | 2490.5 |
| 20°   | 2553.4 | 2534.8 | 2520.1 | 2497.9 | 2486.8 | 2475.8 | 2464.7 | 2442.4 | 2427.7 | 2416.6 | 2398.1 |
| 22.5° | 2472.1 | 2446.1 | 2427.7 | 2405.5 | 2387.1 | 2376.0 | 2357.5 | 2339.0 | 2320.5 | 2309.5 | 2294.7 |
| 25°   | 2368.6 | 2346.4 | 2316.8 | 2294.7 | 2283.6 | 2268.9 | 2246.6 | 2228.1 | 2209.7 | 2191.2 | 2183.8 |
| 27.5° | 2254.1 | 2224.4 | 2198.6 | 2172.8 | 2161.7 | 2150.6 | 2124.7 | 2102.5 | 2087.8 | 2069.3 | 2061.9 |
| 30°   | 2128.4 | 2098.8 | 2069.3 | 2047.1 | 2036.0 | 2017.5 | 2002.8 | 1976.9 | 1958.5 | 1943.6 | 1925.1 |
| 32.5° | 1984.3 | 1962.2 | 1936.2 | 1903.0 | 1895.6 | 1880.8 | 1858.7 | 1847.5 | 1825.4 | 1814.3 | 1799.5 |
| 35°   | 1829.1 | 1814.3 | 1788.5 | 1762.6 | 1751.6 | 1744.1 | 1725.6 | 1703.5 | 1688.7 | 1677.6 | 1670.2 |
| 37.5° | 1681.3 | 1662.9 | 1636.9 | 1618.5 | 1611.1 | 1600.0 | 1577.9 | 1566.8 | 1552.0 | 1544.5 | 1529.8 |
| 40°   | 1522.4 | 1503.9 | 1485.5 | 1474.4 | 1463.3 | 1455.9 | 1441.1 | 1430.0 | 1415.2 | 1404.1 | 1400.5 |
| 42.5° | 1367.2 | 1356.2 | 1341.3 | 1326.5 | 1322.8 | 1311.8 | 1304.4 | 1293.3 | 1282.2 | 1278.5 | 1267.5 |
| 45°   | 1226.8 | 1215.7 | 1200.9 | 1186.2 | 1182.5 | 1175.1 | 1171.4 | 1160.3 | 1152.9 | 1152.9 | 1152.9 |
| 47.5° | 1086.4 | 1075.3 | 1060.6 | 1053.2 | 1056.9 | 1042.0 | 1042.0 | 1038.3 | 1030.9 | 1030.9 | 1034.6 |
| 50°   | 960.8  | 945.9  | 942.2  | 934.8  | 927.4  | 920.1  | 923.8  | 912.7  | 912.7  | 920.1  | 916.4  |
| 52.5° | 842.4  | 827.7  | 824.0  | 816.6  | 812.9  | 812.9  | 809.2  | 809.2  | 805.5  | 809.2  | 809.2  |
| 55°   | 735.3  | 724.2  | 716.8  | 709.5  | 705.8  | 705.8  | 705.8  | 702.1  | 698.4  | 705.8  | 709.5  |
| 57.5° | 639.2  | 635.5  | 628.1  | 617.1  | 613.4  | 609.7  | 606.0  | 606.0  | 606.0  | 606.0  | 609.7  |
| 60°   | 554.3  | 546.8  | 539.4  | 528.4  | 528.4  | 524.7  | 521.0  | 517.3  | 517.3  | 517.3  | 517.3  |
| 62.5° | 480.4  | 469.3  | 458.2  | 450.9  | 447.1  | 443.4  | 439.7  | 432.3  | 432.3  | 432.3  | 432.3  |
| 65°   | 406.5  | 395.4  | 388.0  | 380.6  | 373.2  | 373.2  | 365.9  | 362.2  | 354.8  | 351.1  | 343.6  |
| 67.5° | 336.2  | 328.8  | 321.5  | 310.4  | 306.7  | 303.0  | 295.6  | 291.9  | 280.9  | 277.2  | 273.5  |
| 70°   | 273.5  | 262.4  | 255.0  | 247.5  | 243.8  | 236.4  | 229.1  | 221.7  | 214.3  | 206.9  | 199.5  |
| 72.5° | 214.3  | 203.2  | 195.8  | 188.5  | 181.1  | 181.1  | 170.0  | 162.6  | 151.6  | 144.1  | 133.0  |
| 75°   | 158.9  | 147.8  | 140.4  | 129.3  | 125.6  | 121.9  | 110.8  | 103.5  | 92.4   | 81.3   | 73.9   |
| 77.5° | 107.2  | 99.8   | 92.4   | 81.3   | 73.9   | 73.9   | 62.9   | 55.5   | 48.0   | 36.9   | 33.2   |
| 80°   | 66.6   | 59.2   | 51.8   | 44.3   | 44.3   | 36.9   | 33.2   | 25.8   | 18.5   | 14.8   | 11.1   |
| 82.5° | 36.9   | 33.2   | 29.5   | 22.1   | 22.1   | 18.5   | 14.8   | 11.1   | 7.4    | 3.7    | 3.7    |
| 85°   | 18.5   | 14.8   | 11.1   | 11.1   | 7.4    | 7.4    | 7.4    | 3.7    | 3.7    | 0.0    | 0.0    |
| 87.5° | 7.4    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 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: P585160

CATALOG NUMBER: HC860D010-HM86080935-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 |
| 2.5°  | 2760.3 | 2760.3 | 2756.6 | 2756.6 | 2756.6 | 2752.9 | 2756.6 | 2752.9 | 2752.9 | 2752.9 | 2756.6 |
| 5°    | 2745.4 | 2738.1 | 2738.1 | 2734.4 | 2734.4 | 2730.7 | 2734.4 | 2730.7 | 2727.0 | 2723.3 | 2727.0 |
| 7.5°  | 2715.9 | 2708.5 | 2704.8 | 2701.1 | 2701.1 | 2701.1 | 2697.5 | 2693.8 | 2697.5 | 2686.4 | 2693.8 |
| 10°   | 2675.3 | 2671.6 | 2664.2 | 2660.5 | 2656.9 | 2660.5 | 2656.9 | 2649.4 | 2649.4 | 2649.4 | 2645.7 |
| 12.5° | 2623.5 | 2616.1 | 2612.5 | 2608.8 | 2601.4 | 2601.4 | 2605.1 | 2597.7 | 2597.7 | 2590.3 | 2590.3 |
| 15°   | 2560.8 | 2553.4 | 2545.9 | 2545.9 | 2538.5 | 2538.5 | 2534.8 | 2534.8 | 2531.1 | 2527.4 | 2527.4 |
| 17.5° | 2483.2 | 2472.1 | 2464.7 | 2468.4 | 2464.7 | 2461.0 | 2461.0 | 2453.6 | 2449.8 | 2453.6 | 2453.6 |
| 20°   | 2390.8 | 2383.4 | 2376.0 | 2379.7 | 2372.3 | 2368.6 | 2372.3 | 2361.2 | 2364.9 | 2364.9 | 2364.9 |
| 22.5° | 2287.3 | 2283.6 | 2272.5 | 2272.5 | 2265.2 | 2261.5 | 2265.2 | 2265.2 | 2268.9 | 2265.2 | 2265.2 |
| 25°   | 2172.8 | 2165.4 | 2158.0 | 2158.0 | 2154.3 | 2150.6 | 2154.3 | 2158.0 | 2154.3 | 2158.0 | 2158.0 |
| 27.5° | 2050.9 | 2039.7 | 2039.7 | 2032.3 | 2032.3 | 2036.0 | 2032.3 | 2036.0 | 2039.7 | 2039.7 | 2047.1 |
| 30°   | 1917.8 | 1914.1 | 1910.4 | 1906.7 | 1906.7 | 1910.4 | 1910.4 | 1910.4 | 1914.1 | 1921.4 | 1921.4 |
| 32.5° | 1792.2 | 1784.8 | 1777.4 | 1777.4 | 1784.8 | 1781.1 | 1784.8 | 1784.8 | 1792.2 | 1792.2 | 1799.5 |
| 35°   | 1655.5 | 1655.5 | 1648.0 | 1651.8 | 1651.8 | 1651.8 | 1651.8 | 1659.2 | 1666.5 | 1670.2 | 1677.6 |
| 37.5° | 1529.8 | 1518.7 | 1522.4 | 1522.4 | 1526.1 | 1522.4 | 1533.4 | 1533.4 | 1540.8 | 1540.8 | 1548.2 |
| 40°   | 1393.1 | 1393.1 | 1396.8 | 1393.1 | 1396.8 | 1396.8 | 1404.1 | 1411.5 | 1415.2 | 1422.6 | 1426.3 |
| 42.5° | 1263.8 | 1271.2 | 1263.8 | 1267.5 | 1271.2 | 1274.9 | 1278.5 | 1282.2 | 1297.0 | 1304.4 | 1315.5 |
| 45°   | 1145.4 | 1149.1 | 1152.9 | 1156.6 | 1152.9 | 1160.3 | 1164.0 | 1171.4 | 1182.5 | 1186.2 | 1189.8 |
| 47.5° | 1030.9 | 1034.6 | 1038.3 | 1042.0 | 1042.0 | 1049.4 | 1053.2 | 1060.6 | 1067.9 | 1071.6 | 1075.3 |
| 50°   | 920.1  | 927.4  | 931.1  | 931.1  | 934.8  | 942.2  | 949.6  | 949.6  | 957.1  | 968.2  | 971.9  |
| 52.5° | 820.3  | 820.3  | 827.7  | 831.4  | 835.1  | 835.1  | 846.1  | 849.8  | 853.6  | 861.0  | 868.4  |
| 55°   | 709.5  | 720.5  | 724.2  | 724.2  | 731.6  | 739.0  | 742.7  | 746.4  | 746.4  | 761.2  | 761.2  |
| 57.5° | 613.4  | 617.1  | 624.5  | 624.5  | 624.5  | 635.5  | 635.5  | 642.9  | 646.6  | 650.4  | 657.8  |
| 60°   | 517.3  | 524.7  | 524.7  | 528.4  | 524.7  | 532.1  | 535.8  | 543.1  | 546.8  | 550.6  | 554.3  |
| 62.5° | 428.6  | 428.6  | 432.3  | 432.3  | 432.3  | 432.3  | 439.7  | 439.7  | 447.1  | 450.9  | 454.6  |
| 65°   | 343.6  | 343.6  | 343.6  | 343.6  | 343.6  | 343.6  | 343.6  | 343.6  | 347.3  | 347.3  | 354.8  |
| 67.5° | 266.1  | 262.4  | 255.0  | 258.7  | 255.0  | 255.0  | 251.3  | 251.3  | 255.0  | 255.0  | 262.4  |
| 70°   | 192.2  | 188.5  | 181.1  | 181.1  | 177.4  | 173.7  | 170.0  | 166.3  | 162.6  | 162.6  | 162.6  |
| 72.5° | 125.6  | 118.2  | 107.2  | 103.5  | 103.5  | 96.1   | 88.7   | 85.0   | 85.0   | 85.0   | 85.0   |
| 75°   | 62.9   | 55.5   | 48.0   | 44.3   | 44.3   | 36.9   | 40.6   | 36.9   | 36.9   | 36.9   | 36.9   |
| 77.5° | 25.8   | 18.5   | 14.8   | 14.8   | 14.8   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   |
| 80°   | 7.4    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 82.5° | 3.7    | 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: P585160

CATALOG NUMBER: HC860D010-HM86080935-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 | 2767.7 |
| 2.5°  | 2752.9 | 2752.9 | 2745.4 | 2749.1 | 2749.1 | 2749.1 | 2749.1 | 2749.1 |
| 5°    | 2719.6 | 2723.3 | 2719.6 | 2723.3 | 2723.3 | 2719.6 | 2719.6 | 2719.6 |
| 7.5°  | 2686.4 | 2690.1 | 2686.4 | 2690.1 | 2690.1 | 2690.1 | 2686.4 | 2686.4 |
| 10°   | 2645.7 | 2645.7 | 2645.7 | 2645.7 | 2645.7 | 2642.0 | 2645.7 | 2645.7 |
| 12.5° | 2590.3 | 2590.3 | 2590.3 | 2594.0 | 2594.0 | 2590.3 | 2590.3 | 2586.6 |
| 15°   | 2531.1 | 2523.8 | 2527.4 | 2531.1 | 2527.4 | 2527.4 | 2527.4 | 2527.4 |
| 17.5° | 2449.8 | 2453.6 | 2449.8 | 2449.8 | 2449.8 | 2449.8 | 2453.6 | 2449.8 |
| 20°   | 2364.9 | 2364.9 | 2368.6 | 2364.9 | 2364.9 | 2364.9 | 2364.9 | 2361.2 |
| 22.5° | 2268.9 | 2265.2 | 2265.2 | 2268.9 | 2268.9 | 2265.2 | 2268.9 | 2268.9 |
| 25°   | 2161.7 | 2165.4 | 2161.7 | 2161.7 | 2165.4 | 2165.4 | 2165.4 | 2161.7 |
| 27.5° | 2047.1 | 2050.9 | 2054.6 | 2050.9 | 2050.9 | 2050.9 | 2054.6 | 2058.2 |
| 30°   | 1928.8 | 1936.2 | 1928.8 | 1928.8 | 1936.2 | 1932.5 | 1936.2 | 1936.2 |
| 32.5° | 1803.2 | 1814.3 | 1806.9 | 1814.3 | 1814.3 | 1818.0 | 1814.3 | 1818.0 |
| 35°   | 1677.6 | 1688.7 | 1688.7 | 1688.7 | 1692.4 | 1696.1 | 1696.1 | 1692.4 |
| 37.5° | 1559.4 | 1563.1 | 1563.1 | 1570.5 | 1574.2 | 1577.9 | 1577.9 | 1574.2 |
| 40°   | 1437.4 | 1444.7 | 1448.4 | 1448.4 | 1448.4 | 1455.9 | 1463.3 | 1455.9 |
| 42.5° | 1319.1 | 1322.8 | 1326.5 | 1326.5 | 1333.9 | 1337.6 | 1341.3 | 1341.3 |
| 45°   | 1204.6 | 1212.0 | 1215.7 | 1219.4 | 1223.1 | 1230.4 | 1226.8 | 1234.1 |
| 47.5° | 1086.4 | 1097.5 | 1101.2 | 1104.8 | 1112.2 | 1115.9 | 1119.6 | 1123.3 |
| 50°   | 979.2  | 986.6  | 986.6  | 994.0  | 1005.1 | 1005.1 | 1012.5 | 1016.1 |
| 52.5° | 872.1  | 875.8  | 879.5  | 883.2  | 890.5  | 897.9  | 897.9  | 905.3  |
| 55°   | 768.6  | 772.3  | 772.3  | 776.0  | 779.7  | 794.5  | 798.2  | 798.2  |
| 57.5° | 661.5  | 661.5  | 668.9  | 672.5  | 676.2  | 683.6  | 683.6  | 683.6  |
| 60°   | 558.0  | 561.7  | 561.7  | 565.4  | 569.1  | 576.5  | 580.2  | 576.5  |
| 62.5° | 454.6  | 458.2  | 458.2  | 461.9  | 469.3  | 473.0  | 469.3  | 469.3  |
| 65°   | 358.5  | 362.2  | 362.2  | 365.9  | 373.2  | 373.2  | 369.5  | 373.2  |
| 67.5° | 262.4  | 262.4  | 262.4  | 262.4  | 262.4  | 262.4  | 262.4  | 262.4  |
| 70°   | 166.3  | 162.6  | 158.9  | 162.6  | 162.6  | 162.6  | 158.9  | 166.3  |
| 72.5° | 81.3   | 85.0   | 85.0   | 85.0   | 85.0   | 85.0   | 85.0   | 81.3   |
| 75°   | 36.9   | 36.9   | 33.2   | 33.2   | 33.2   | 36.9   | 36.9   | 33.2   |
| 77.5° | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   |
| 80°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 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)