

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: P584948

Luminaire Tested: **HC855D010-HM82555830-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555830-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5020.8 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

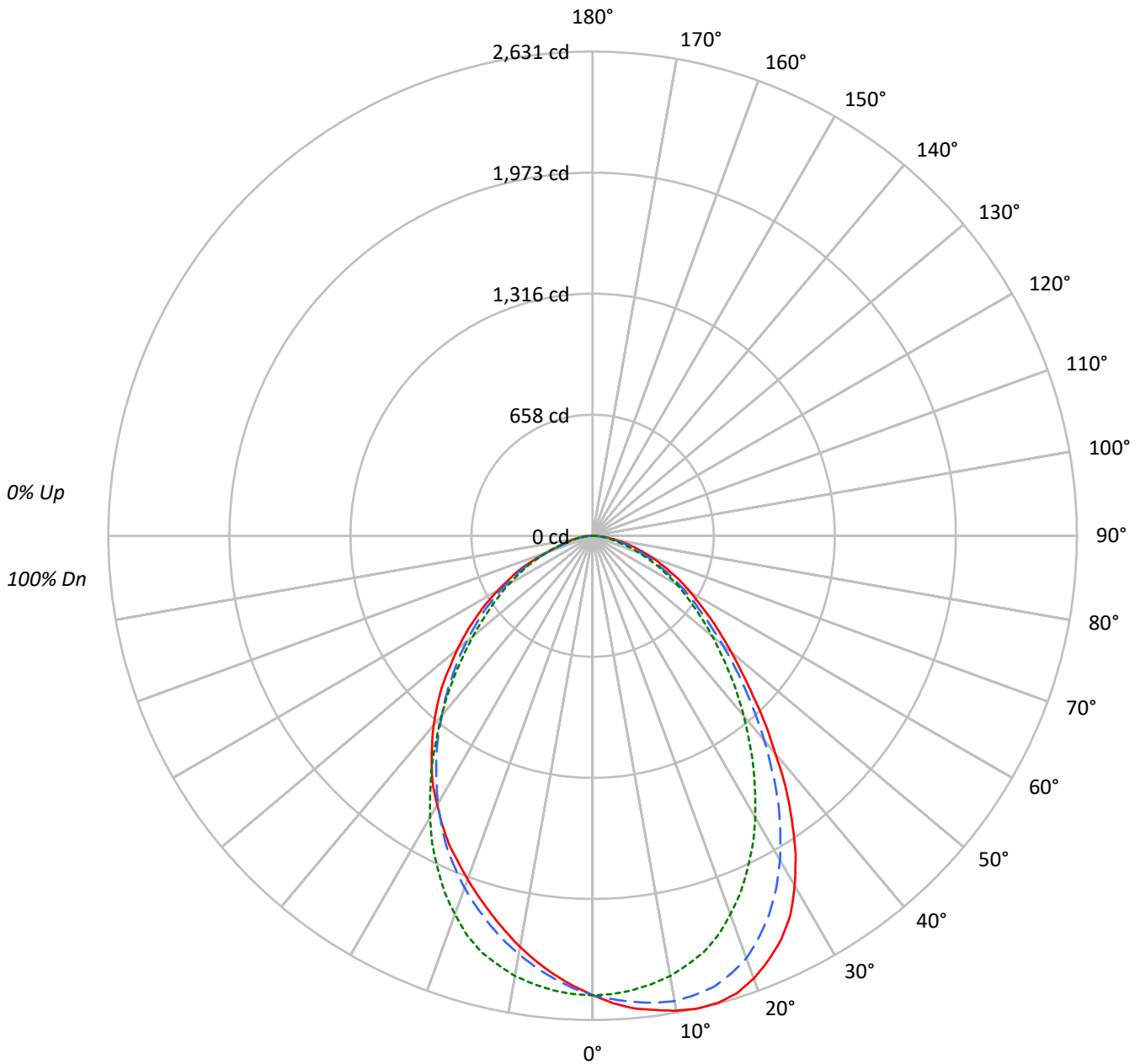
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |    |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |   |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |    |    |   |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |   |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |    |    |   |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |   |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |   |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |    |    |   |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |    |    |   |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 76980 | 76980 | 76980 |
| 5°  | 79797 | 76726 | 74089 |
| 10° | 82053 | 76057 | 71056 |
| 15° | 83881 | 74715 | 67919 |
| 20° | 84011 | 71797 | 65161 |
| 25° | 82400 | 67807 | 62856 |
| 30° | 78153 | 62878 | 60101 |
| 35° | 71016 | 57268 | 57400 |
| 40° | 62092 | 51384 | 54097 |
| 45° | 53814 | 45772 | 50408 |
| 50° | 47124 | 40657 | 45929 |
| 55° | 41939 | 36026 | 41563 |
| 60° | 37830 | 32366 | 36523 |
| 65° | 34155 | 28456 | 31820 |
| 70° | 30699 | 23973 | 23658 |
| 75° | 27033 | 19003 | 17752 |
| 80° | 22659 | 15734 | 17012 |
| 85° | 17584 | 13798 | 15037 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 235.5  | 4.7       |
| 10°-20°   | 663.3  | 13.2      |
| 20°-30°   | 948.0  | 18.9      |
| 30°-40°   | 1007.2 | 20.1      |
| 40°-50°   | 867.2  | 17.3      |
| 50°-60°   | 648.4  | 12.9      |
| 60°-70°   | 413.6  | 8.2       |
| 70°-80°   | 188.2  | 3.7       |
| 80°-90°   | 49.4   | 1.0       |
| 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°    | 1846.8 | 36.8      |
| 0°-40°    | 2854.0 | 56.8      |
| 0°-60°    | 4369.6 | 87.0      |
| 0°-90°    | 5020.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5020.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2496 | 2496 | 2496 | 2496 | 2496 |      |
| 5°  | 2578 | 2542 | 2479 | 2415 | 2394 | 247  |
| 15° | 2628 | 2539 | 2340 | 2181 | 2128 | 740  |
| 25° | 2422 | 2269 | 1993 | 1872 | 1847 | 1109 |
| 35° | 1886 | 1755 | 1521 | 1482 | 1525 | 1175 |
| 45° | 1234 | 1167 | 1050 | 1078 | 1156 | 959  |
| 55° | 780  | 716  | 670  | 727  | 773  | 701  |
| 65° | 468  | 415  | 390  | 408  | 436  | 467  |
| 75° | 227  | 195  | 160  | 145  | 149  | 241  |
| 85° | 50   | 42   | 39   | 42   | 42   | 60   |
| 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°    | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 |
| 2.5°  | 2542.4 | 2535.4 | 2538.9 | 2535.4 | 2538.9 | 2538.9 | 2531.8 | 2531.8 | 2531.8 | 2531.8 | 2521.2 |
| 5°    | 2577.9 | 2574.3 | 2574.3 | 2570.8 | 2567.3 | 2570.8 | 2567.3 | 2563.8 | 2556.6 | 2553.1 | 2542.4 |
| 7.5°  | 2599.1 | 2599.1 | 2599.1 | 2599.1 | 2595.6 | 2592.1 | 2588.5 | 2581.4 | 2574.3 | 2567.3 | 2560.1 |
| 10°   | 2620.5 | 2624.0 | 2620.5 | 2617.0 | 2613.3 | 2606.3 | 2602.7 | 2595.6 | 2585.0 | 2574.3 | 2567.3 |
| 12.5° | 2631.1 | 2631.1 | 2627.5 | 2627.5 | 2620.5 | 2617.0 | 2606.3 | 2595.6 | 2585.0 | 2574.3 | 2556.6 |
| 15°   | 2627.5 | 2627.5 | 2624.0 | 2620.5 | 2609.8 | 2606.3 | 2599.1 | 2588.5 | 2570.8 | 2556.6 | 2538.9 |
| 17.5° | 2606.3 | 2602.7 | 2595.6 | 2595.6 | 2581.4 | 2577.9 | 2570.8 | 2556.6 | 2538.9 | 2517.6 | 2496.4 |
| 20°   | 2560.1 | 2560.1 | 2556.6 | 2553.1 | 2538.9 | 2528.2 | 2521.2 | 2503.4 | 2489.2 | 2464.5 | 2443.2 |
| 22.5° | 2496.4 | 2503.4 | 2496.4 | 2489.2 | 2471.5 | 2468.0 | 2457.3 | 2436.0 | 2414.8 | 2386.4 | 2361.6 |
| 25°   | 2421.8 | 2418.3 | 2414.8 | 2407.6 | 2393.5 | 2386.4 | 2372.2 | 2350.9 | 2329.7 | 2297.8 | 2269.3 |
| 27.5° | 2326.2 | 2312.0 | 2312.0 | 2297.8 | 2287.2 | 2276.5 | 2269.3 | 2248.1 | 2219.8 | 2194.9 | 2159.5 |
| 30°   | 2194.9 | 2198.4 | 2180.7 | 2177.2 | 2159.5 | 2152.4 | 2138.2 | 2116.9 | 2092.1 | 2063.8 | 2035.4 |
| 32.5° | 2053.1 | 2042.4 | 2042.4 | 2028.3 | 2014.1 | 2003.4 | 1999.9 | 1975.1 | 1953.8 | 1925.5 | 1897.1 |
| 35°   | 1886.5 | 1886.5 | 1875.8 | 1872.3 | 1858.1 | 1850.9 | 1840.4 | 1826.2 | 1801.4 | 1776.5 | 1755.2 |
| 37.5° | 1723.3 | 1716.3 | 1712.6 | 1705.6 | 1694.9 | 1684.3 | 1684.3 | 1659.6 | 1655.9 | 1627.6 | 1599.2 |
| 40°   | 1542.5 | 1549.6 | 1542.5 | 1531.8 | 1528.3 | 1521.3 | 1517.6 | 1503.4 | 1492.9 | 1468.0 | 1450.2 |
| 42.5° | 1390.0 | 1383.0 | 1383.0 | 1379.3 | 1365.1 | 1365.1 | 1358.1 | 1351.0 | 1333.3 | 1326.2 | 1304.9 |
| 45°   | 1234.0 | 1241.0 | 1230.5 | 1234.0 | 1219.8 | 1219.8 | 1219.8 | 1205.6 | 1191.5 | 1180.8 | 1166.6 |
| 47.5° | 1099.2 | 1102.7 | 1102.7 | 1092.2 | 1088.6 | 1088.6 | 1081.5 | 1074.4 | 1063.8 | 1049.6 | 1039.0 |
| 50°   | 982.3  | 985.8  | 978.6  | 975.1  | 968.1  | 964.4  | 964.4  | 950.3  | 943.2  | 929.0  | 921.9  |
| 52.5° | 875.8  | 875.8  | 872.3  | 872.3  | 861.7  | 861.7  | 854.6  | 844.0  | 836.8  | 829.8  | 812.0  |
| 55°   | 780.1  | 780.1  | 776.6  | 773.1  | 773.1  | 762.4  | 758.9  | 748.2  | 741.1  | 726.9  | 716.3  |
| 57.5° | 688.0  | 691.5  | 688.0  | 684.3  | 680.8  | 677.3  | 670.1  | 659.6  | 652.5  | 641.8  | 634.8  |
| 60°   | 613.4  | 613.4  | 609.9  | 606.4  | 599.2  | 595.7  | 592.2  | 585.1  | 574.4  | 567.4  | 556.7  |
| 62.5° | 542.5  | 539.0  | 535.5  | 531.9  | 524.8  | 524.8  | 517.7  | 510.6  | 500.0  | 492.9  | 485.8  |
| 65°   | 468.1  | 468.1  | 464.5  | 464.5  | 460.9  | 453.9  | 450.3  | 446.8  | 432.6  | 429.1  | 414.9  |
| 67.5° | 400.7  | 404.2  | 397.2  | 397.2  | 390.0  | 390.0  | 386.5  | 375.9  | 372.3  | 365.2  | 358.2  |
| 70°   | 340.5  | 340.5  | 340.5  | 336.8  | 329.8  | 326.2  | 322.7  | 315.6  | 312.0  | 305.0  | 297.8  |
| 72.5° | 280.1  | 280.1  | 276.6  | 276.6  | 273.1  | 269.4  | 265.9  | 258.9  | 258.9  | 251.7  | 244.7  |
| 75°   | 226.9  | 226.9  | 223.4  | 219.9  | 216.4  | 216.4  | 212.7  | 209.2  | 202.2  | 198.5  | 195.0  |
| 77.5° | 173.8  | 173.8  | 173.8  | 170.2  | 166.7  | 166.7  | 166.7  | 159.5  | 152.5  | 152.5  | 149.0  |
| 80°   | 127.6  | 127.6  | 124.1  | 124.1  | 120.6  | 120.6  | 120.6  | 117.0  | 113.4  | 109.9  | 106.4  |
| 82.5° | 85.1   | 85.1   | 85.1   | 85.1   | 81.6   | 81.6   | 81.6   | 78.1   | 74.4   | 74.4   | 74.4   |
| 85°   | 49.7   | 49.7   | 49.7   | 49.7   | 46.1   | 46.1   | 46.1   | 46.1   | 46.1   | 42.5   | 42.5   |
| 87.5° | 21.3   | 17.7   | 21.3   | 17.7   | 21.3   | 17.7   | 21.3   | 17.7   | 17.7   | 17.7   | 17.7   |
| 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°    | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 |
| 2.5°  | 2524.7 | 2521.2 | 2517.6 | 2514.1 | 2514.1 | 2510.5 | 2503.4 | 2499.9 | 2496.4 | 2492.8 | 2492.8 |
| 5°    | 2538.9 | 2535.4 | 2528.2 | 2521.2 | 2517.6 | 2510.5 | 2503.4 | 2496.4 | 2489.2 | 2478.7 | 2475.0 |
| 7.5°  | 2549.6 | 2538.9 | 2531.8 | 2517.6 | 2514.1 | 2507.0 | 2496.4 | 2485.7 | 2471.5 | 2457.3 | 2446.7 |
| 10°   | 2549.6 | 2535.4 | 2524.7 | 2507.0 | 2499.9 | 2492.8 | 2478.7 | 2460.8 | 2443.2 | 2429.0 | 2411.3 |
| 12.5° | 2542.4 | 2524.7 | 2507.0 | 2489.2 | 2478.7 | 2468.0 | 2446.7 | 2429.0 | 2407.6 | 2386.4 | 2372.2 |
| 15°   | 2517.6 | 2496.4 | 2475.0 | 2453.8 | 2443.2 | 2429.0 | 2407.6 | 2382.9 | 2361.6 | 2340.4 | 2315.5 |
| 17.5° | 2471.5 | 2450.2 | 2425.5 | 2400.6 | 2386.4 | 2375.8 | 2343.9 | 2326.2 | 2294.2 | 2273.0 | 2251.6 |
| 20°   | 2411.3 | 2386.4 | 2354.5 | 2329.7 | 2312.0 | 2301.3 | 2276.5 | 2244.6 | 2219.8 | 2187.9 | 2166.6 |
| 22.5° | 2333.2 | 2301.3 | 2269.3 | 2244.6 | 2226.8 | 2212.6 | 2180.7 | 2148.9 | 2127.5 | 2099.2 | 2074.3 |
| 25°   | 2241.0 | 2209.1 | 2177.2 | 2141.7 | 2124.0 | 2109.8 | 2081.5 | 2053.1 | 2024.7 | 1992.9 | 1971.5 |
| 27.5° | 2131.2 | 2095.7 | 2067.3 | 2035.4 | 2017.6 | 1996.4 | 1964.5 | 1936.0 | 1907.7 | 1886.5 | 1858.1 |
| 30°   | 2010.6 | 1971.5 | 1943.2 | 1911.3 | 1893.5 | 1875.8 | 1843.9 | 1815.5 | 1790.7 | 1765.9 | 1751.7 |
| 32.5° | 1865.1 | 1836.8 | 1808.4 | 1776.5 | 1762.3 | 1751.7 | 1719.8 | 1691.4 | 1663.1 | 1641.7 | 1631.1 |
| 35°   | 1726.8 | 1694.9 | 1670.1 | 1641.7 | 1624.0 | 1613.4 | 1585.0 | 1560.2 | 1546.0 | 1521.3 | 1507.1 |
| 37.5° | 1581.5 | 1556.7 | 1528.3 | 1499.9 | 1489.3 | 1478.7 | 1457.4 | 1432.5 | 1411.3 | 1393.5 | 1386.5 |
| 40°   | 1429.0 | 1407.7 | 1383.0 | 1365.1 | 1354.6 | 1343.9 | 1326.2 | 1308.4 | 1294.2 | 1276.5 | 1269.4 |
| 42.5° | 1283.6 | 1269.4 | 1248.2 | 1226.8 | 1216.3 | 1212.7 | 1191.5 | 1177.3 | 1170.1 | 1163.1 | 1155.9 |
| 45°   | 1152.4 | 1131.1 | 1116.9 | 1102.7 | 1092.2 | 1085.0 | 1074.4 | 1063.8 | 1056.7 | 1049.6 | 1042.5 |
| 47.5° | 1024.8 | 1007.1 | 992.9  | 982.3  | 971.6  | 968.1  | 960.9  | 950.3  | 943.2  | 943.2  | 943.2  |
| 50°   | 907.7  | 893.5  | 879.4  | 872.3  | 868.8  | 861.7  | 854.6  | 851.0  | 847.5  | 847.5  | 847.5  |
| 52.5° | 804.9  | 790.7  | 780.1  | 773.1  | 773.1  | 765.9  | 758.9  | 755.2  | 755.2  | 755.2  | 755.2  |
| 55°   | 709.2  | 698.5  | 691.5  | 684.3  | 677.3  | 673.8  | 673.8  | 673.8  | 670.1  | 670.1  | 673.8  |
| 57.5° | 624.1  | 616.9  | 606.4  | 599.2  | 595.7  | 595.7  | 592.2  | 588.6  | 592.2  | 595.7  | 599.2  |
| 60°   | 546.0  | 539.0  | 535.5  | 524.8  | 524.8  | 524.8  | 521.3  | 521.3  | 521.3  | 524.8  | 528.3  |
| 62.5° | 475.1  | 471.6  | 464.5  | 460.9  | 457.4  | 457.4  | 453.9  | 453.9  | 453.9  | 453.9  | 457.4  |
| 65°   | 411.4  | 404.2  | 397.2  | 397.2  | 397.2  | 393.6  | 393.6  | 386.5  | 390.0  | 390.0  | 386.5  |
| 67.5° | 351.0  | 344.0  | 340.5  | 336.8  | 333.3  | 333.3  | 329.8  | 326.2  | 322.7  | 322.7  | 322.7  |
| 70°   | 294.3  | 287.3  | 287.3  | 280.1  | 280.1  | 276.6  | 273.1  | 273.1  | 269.4  | 265.9  | 262.4  |
| 72.5° | 237.6  | 234.0  | 230.5  | 226.9  | 226.9  | 226.9  | 223.4  | 219.9  | 216.4  | 212.7  | 205.7  |
| 75°   | 188.0  | 188.0  | 180.8  | 177.3  | 177.3  | 173.8  | 170.2  | 166.7  | 163.1  | 159.5  | 156.0  |
| 77.5° | 145.3  | 141.8  | 134.8  | 131.1  | 131.1  | 131.1  | 127.6  | 124.1  | 120.6  | 117.0  | 113.4  |
| 80°   | 106.4  | 102.8  | 99.3   | 95.8   | 95.8   | 95.8   | 92.2   | 92.2   | 88.6   | 88.6   | 88.6   |
| 82.5° | 70.9   | 70.9   | 67.4   | 67.4   | 67.4   | 67.4   | 63.9   | 63.9   | 63.9   | 63.9   | 63.9   |
| 85°   | 42.5   | 42.5   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   | 39.0   |
| 87.5° | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 |
| 2.5°  | 2485.7 | 2485.7 | 2478.7 | 2475.0 | 2471.5 | 2475.0 | 2468.0 | 2464.5 | 2460.8 | 2460.8 | 2457.3 |
| 5°    | 2464.5 | 2460.8 | 2446.7 | 2443.2 | 2439.6 | 2436.0 | 2429.0 | 2421.8 | 2414.8 | 2411.3 | 2407.6 |
| 7.5°  | 2436.0 | 2425.5 | 2411.3 | 2407.6 | 2404.1 | 2393.5 | 2382.9 | 2375.8 | 2365.1 | 2361.6 | 2354.5 |
| 10°   | 2397.1 | 2382.9 | 2372.2 | 2361.6 | 2354.5 | 2343.9 | 2333.2 | 2322.6 | 2308.4 | 2304.9 | 2294.2 |
| 12.5° | 2350.9 | 2333.2 | 2312.0 | 2308.4 | 2297.8 | 2283.5 | 2269.3 | 2258.8 | 2248.1 | 2241.0 | 2230.4 |
| 15°   | 2294.2 | 2276.5 | 2255.2 | 2244.6 | 2233.9 | 2223.3 | 2205.6 | 2191.4 | 2180.7 | 2170.1 | 2159.5 |
| 17.5° | 2226.8 | 2205.6 | 2187.9 | 2177.2 | 2170.1 | 2152.4 | 2138.2 | 2120.5 | 2109.8 | 2099.2 | 2088.5 |
| 20°   | 2145.3 | 2127.5 | 2102.7 | 2092.1 | 2088.5 | 2074.3 | 2056.6 | 2049.6 | 2035.4 | 2024.7 | 2017.6 |
| 22.5° | 2053.1 | 2035.4 | 2014.1 | 2007.0 | 1992.9 | 1985.7 | 1968.0 | 1960.9 | 1953.8 | 1943.2 | 1939.7 |
| 25°   | 1950.2 | 1932.5 | 1914.8 | 1911.3 | 1900.6 | 1893.5 | 1882.9 | 1872.3 | 1872.3 | 1861.6 | 1861.6 |
| 27.5° | 1843.9 | 1826.2 | 1812.0 | 1804.9 | 1801.4 | 1794.2 | 1783.5 | 1780.0 | 1776.5 | 1773.0 | 1773.0 |
| 30°   | 1730.5 | 1709.1 | 1702.1 | 1698.5 | 1694.9 | 1687.9 | 1684.3 | 1677.2 | 1680.8 | 1684.3 | 1680.8 |
| 32.5° | 1609.9 | 1602.7 | 1588.5 | 1581.5 | 1585.0 | 1581.5 | 1574.3 | 1581.5 | 1578.0 | 1585.0 | 1588.5 |
| 35°   | 1492.9 | 1485.7 | 1478.7 | 1478.7 | 1471.6 | 1471.6 | 1471.6 | 1475.1 | 1482.2 | 1485.7 | 1492.9 |
| 37.5° | 1379.3 | 1368.8 | 1365.1 | 1361.6 | 1365.1 | 1365.1 | 1365.1 | 1372.3 | 1379.3 | 1386.5 | 1397.1 |
| 40°   | 1258.8 | 1251.7 | 1251.7 | 1251.7 | 1251.7 | 1262.4 | 1258.8 | 1265.9 | 1273.0 | 1283.6 | 1294.2 |
| 42.5° | 1145.4 | 1145.4 | 1148.9 | 1148.9 | 1148.9 | 1148.9 | 1155.9 | 1166.6 | 1177.3 | 1187.9 | 1198.5 |
| 45°   | 1039.0 | 1039.0 | 1039.0 | 1046.0 | 1046.0 | 1049.6 | 1063.8 | 1070.9 | 1078.0 | 1088.6 | 1099.2 |
| 47.5° | 939.7  | 939.7  | 943.2  | 946.7  | 950.3  | 957.4  | 964.4  | 975.1  | 985.8  | 992.9  | 1003.5 |
| 50°   | 847.5  | 851.0  | 858.1  | 865.2  | 865.2  | 868.8  | 879.4  | 886.5  | 893.5  | 904.2  | 907.7  |
| 52.5° | 758.9  | 765.9  | 773.1  | 776.6  | 780.1  | 787.2  | 790.7  | 801.4  | 804.9  | 815.6  | 819.1  |
| 55°   | 677.3  | 680.8  | 691.5  | 695.0  | 695.0  | 702.1  | 709.2  | 716.3  | 726.9  | 726.9  | 734.0  |
| 57.5° | 602.8  | 606.4  | 613.4  | 616.9  | 613.4  | 624.1  | 627.6  | 634.8  | 638.3  | 645.3  | 648.9  |
| 60°   | 528.3  | 535.5  | 539.0  | 539.0  | 542.5  | 546.0  | 553.2  | 553.2  | 560.2  | 567.4  | 567.4  |
| 62.5° | 457.4  | 460.9  | 464.5  | 468.1  | 471.6  | 468.1  | 478.6  | 478.6  | 485.8  | 489.3  | 496.5  |
| 65°   | 390.0  | 393.6  | 393.6  | 397.2  | 397.2  | 400.7  | 400.7  | 404.2  | 407.7  | 414.9  | 418.4  |
| 67.5° | 322.7  | 322.7  | 322.7  | 326.2  | 322.7  | 326.2  | 326.2  | 329.8  | 329.8  | 336.8  | 340.5  |
| 70°   | 262.4  | 258.9  | 255.3  | 255.3  | 255.3  | 255.3  | 251.7  | 255.3  | 255.3  | 258.9  | 258.9  |
| 72.5° | 202.2  | 198.5  | 195.0  | 191.5  | 191.5  | 188.0  | 184.4  | 188.0  | 188.0  | 191.5  | 191.5  |
| 75°   | 152.5  | 145.3  | 145.3  | 145.3  | 141.8  | 141.8  | 141.8  | 145.3  | 145.3  | 145.3  | 149.0  |
| 77.5° | 113.4  | 113.4  | 109.9  | 109.9  | 109.9  | 113.4  | 113.4  | 117.0  | 117.0  | 117.0  | 117.0  |
| 80°   | 85.1   | 88.6   | 88.6   | 88.6   | 88.6   | 92.2   | 92.2   | 92.2   | 92.2   | 95.8   | 95.8   |
| 82.5° | 63.9   | 63.9   | 63.9   | 63.9   | 67.4   | 67.4   | 67.4   | 67.4   | 67.4   | 67.4   | 67.4   |
| 85°   | 39.0   | 42.5   | 42.5   | 39.0   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   |
| 87.5° | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   |
| 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: P584948

CATALOG NUMBER: HC855D010-HM82555830-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 | 2496.4 |
| 2.5°  | 2453.8 | 2453.8 | 2453.8 | 2453.8 | 2450.2 | 2450.2 | 2450.2 | 2446.7 |
| 5°    | 2400.6 | 2400.6 | 2400.6 | 2393.5 | 2397.1 | 2397.1 | 2389.9 | 2393.5 |
| 7.5°  | 2347.4 | 2343.9 | 2340.4 | 2340.4 | 2336.7 | 2333.2 | 2329.7 | 2333.2 |
| 10°   | 2287.2 | 2276.5 | 2276.5 | 2273.0 | 2273.0 | 2265.8 | 2265.8 | 2269.3 |
| 12.5° | 2219.8 | 2212.6 | 2212.6 | 2209.1 | 2205.6 | 2202.1 | 2198.4 | 2198.4 |
| 15°   | 2152.4 | 2145.3 | 2141.7 | 2138.2 | 2134.7 | 2127.5 | 2131.2 | 2127.5 |
| 17.5° | 2085.0 | 2074.3 | 2074.3 | 2070.8 | 2067.3 | 2060.1 | 2060.1 | 2056.6 |
| 20°   | 2007.0 | 2003.4 | 1996.4 | 1999.9 | 1996.4 | 1989.2 | 1985.7 | 1985.7 |
| 22.5° | 1929.0 | 1929.0 | 1925.5 | 1925.5 | 1921.8 | 1918.3 | 1914.8 | 1914.8 |
| 25°   | 1854.6 | 1850.9 | 1854.6 | 1854.6 | 1843.9 | 1843.9 | 1843.9 | 1847.4 |
| 27.5° | 1769.4 | 1773.0 | 1769.4 | 1769.4 | 1769.4 | 1769.4 | 1773.0 | 1769.4 |
| 30°   | 1684.3 | 1684.3 | 1684.3 | 1687.9 | 1694.9 | 1691.4 | 1691.4 | 1687.9 |
| 32.5° | 1592.2 | 1595.7 | 1595.7 | 1599.2 | 1602.7 | 1609.9 | 1609.9 | 1613.4 |
| 35°   | 1499.9 | 1507.1 | 1510.6 | 1507.1 | 1517.6 | 1517.6 | 1524.8 | 1524.8 |
| 37.5° | 1404.2 | 1407.7 | 1414.8 | 1418.4 | 1425.5 | 1429.0 | 1432.5 | 1432.5 |
| 40°   | 1301.4 | 1315.6 | 1319.1 | 1322.6 | 1333.3 | 1333.3 | 1336.8 | 1343.9 |
| 42.5° | 1205.6 | 1219.8 | 1223.3 | 1226.8 | 1234.0 | 1244.7 | 1241.0 | 1248.2 |
| 45°   | 1113.4 | 1124.1 | 1127.6 | 1131.1 | 1141.8 | 1145.4 | 1145.4 | 1155.9 |
| 47.5° | 1014.1 | 1021.3 | 1024.8 | 1031.8 | 1039.0 | 1046.0 | 1053.2 | 1049.6 |
| 50°   | 914.9  | 925.5  | 932.6  | 936.1  | 946.7  | 950.3  | 953.9  | 957.4  |
| 52.5° | 826.3  | 833.3  | 836.8  | 840.4  | 851.0  | 854.6  | 858.1  | 865.2  |
| 55°   | 741.1  | 744.7  | 751.7  | 748.2  | 758.9  | 762.4  | 765.9  | 773.1  |
| 57.5° | 656.0  | 659.6  | 663.1  | 663.1  | 670.1  | 677.3  | 680.8  | 684.3  |
| 60°   | 574.4  | 581.5  | 585.1  | 585.1  | 585.1  | 592.2  | 592.2  | 592.2  |
| 62.5° | 500.0  | 500.0  | 503.5  | 503.5  | 510.6  | 510.6  | 510.6  | 510.6  |
| 65°   | 421.9  | 425.6  | 429.1  | 429.1  | 436.1  | 432.6  | 439.7  | 436.1  |
| 67.5° | 340.5  | 340.5  | 347.5  | 347.5  | 344.0  | 347.5  | 347.5  | 347.5  |
| 70°   | 258.9  | 258.9  | 262.4  | 262.4  | 262.4  | 262.4  | 262.4  | 262.4  |
| 72.5° | 191.5  | 191.5  | 191.5  | 195.0  | 191.5  | 191.5  | 195.0  | 191.5  |
| 75°   | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  |
| 77.5° | 117.0  | 117.0  | 120.6  | 120.6  | 120.6  | 120.6  | 120.6  | 120.6  |
| 80°   | 95.8   | 95.8   | 95.8   | 95.8   | 99.3   | 95.8   | 95.8   | 95.8   |
| 82.5° | 70.9   | 67.4   | 70.9   | 67.4   | 70.9   | 70.9   | 70.9   | 70.9   |
| 85°   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   | 42.5   |
| 87.5° | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   |
| 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)