

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P585059

Luminaire Tested: **HCC8S60D010MW-HM86080827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585059  
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: HCC8S60D010MW-HM86080827-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

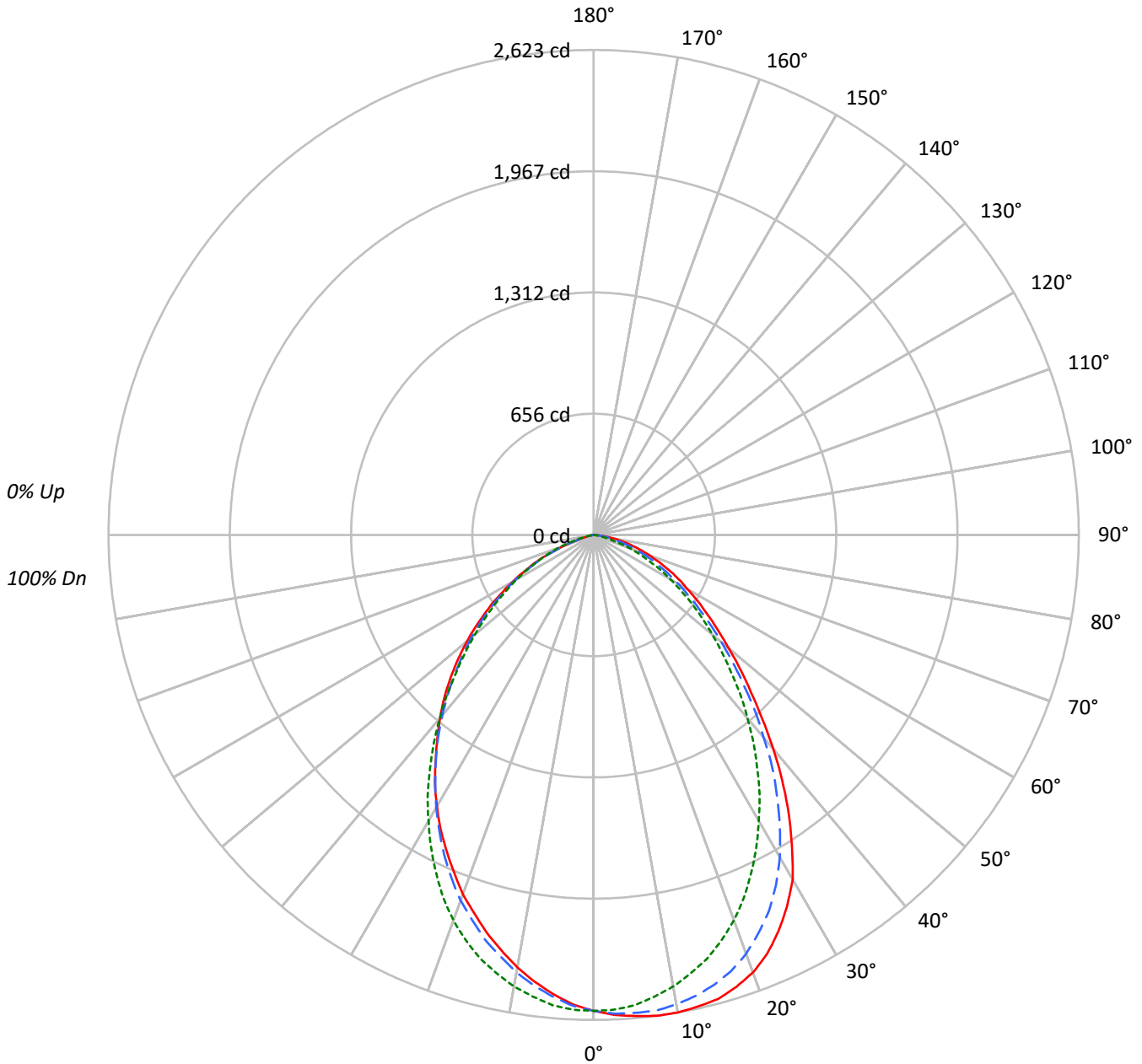
Lumens per Lamp: N/A  
Luminaire Lumens: 4825.4 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P585059  
CATALOG NUMBER: HCC8S60D010MW-HM86080827-81RWWH

### 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   | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 84  | 80  | 84  | 81  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 62  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 58  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 49  | 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  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 36  | 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°  | 79373 | 79373 | 79373 |
| 5°  | 80861 | 79029 | 77193 |
| 10° | 82125 | 77648 | 74372 |
| 15° | 82952 | 75714 | 71149 |
| 20° | 82636 | 72791 | 67872 |
| 25° | 80457 | 68589 | 64081 |
| 30° | 76626 | 63586 | 60353 |
| 35° | 69194 | 58032 | 56063 |
| 40° | 60796 | 52089 | 51948 |
| 45° | 52475 | 45781 | 47761 |
| 50° | 45675 | 40153 | 42830 |
| 55° | 40504 | 34880 | 37316 |
| 60° | 36134 | 29473 | 30972 |
| 65° | 32579 | 23925 | 24429 |
| 70° | 28932 | 17924 | 14462 |
| 75° | 24925 | 10389 | 6243  |
| 80° | 19196 | 3711  | 1865  |
| 85° | 12312 | 1238  | 1238  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 241.6  | 5.0       |
| 10°-20°   | 672.7  | 13.9      |
| 20°-30°   | 951.4  | 19.7      |
| 30°-40°   | 1002.5 | 20.8      |
| 40°-50°   | 852.0  | 17.7      |
| 50°-60°   | 613.5  | 12.7      |
| 60°-70°   | 353.9  | 7.3       |
| 70°-80°   | 121.1  | 2.5       |
| 80°-90°   | 16.6   | 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°    | 1865.7 | 38.7      |
| 0°-40°    | 2868.2 | 59.4      |
| 0°-60°    | 4333.8 | 89.8      |
| 0°-90°    | 4825.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4825.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2574 | 2574 | 2574 | 2574 | 2574 |      |
| 5°  | 2612 | 2595 | 2553 | 2508 | 2494 | 250  |
| 15° | 2598 | 2518 | 2372 | 2267 | 2229 | 732  |
| 25° | 2365 | 2243 | 2016 | 1911 | 1883 | 1084 |
| 35° | 1838 | 1730 | 1542 | 1486 | 1489 | 1145 |
| 45° | 1203 | 1148 | 1050 | 1057 | 1095 | 935  |
| 55° | 753  | 694  | 649  | 673  | 694  | 678  |
| 65° | 446  | 384  | 328  | 321  | 335  | 444  |
| 75° | 209  | 157  | 87   | 56   | 52   | 221  |
| 85° | 35   | 21   | 4    | 4    | 4    | 47   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 |
| 2.5°  | 2598.4 | 2602.0 | 2598.4 | 2598.4 | 2594.9 | 2591.5 | 2588.0 | 2584.4 | 2577.5 | 2570.5 | 2570.5 |
| 5°    | 2612.3 | 2619.4 | 2612.3 | 2612.3 | 2602.0 | 2594.9 | 2588.0 | 2577.5 | 2563.5 | 2553.1 | 2553.1 |
| 7.5°  | 2622.8 | 2622.8 | 2622.8 | 2612.3 | 2605.4 | 2594.9 | 2577.5 | 2560.1 | 2542.7 | 2525.1 | 2518.2 |
| 10°   | 2622.8 | 2622.8 | 2619.4 | 2605.4 | 2598.4 | 2577.5 | 2560.1 | 2535.6 | 2511.2 | 2486.8 | 2479.8 |
| 12.5° | 2612.3 | 2615.9 | 2608.9 | 2594.9 | 2577.5 | 2553.1 | 2528.7 | 2497.2 | 2469.4 | 2441.5 | 2427.6 |
| 15°   | 2598.4 | 2594.9 | 2588.0 | 2570.5 | 2549.6 | 2518.2 | 2493.8 | 2458.9 | 2420.5 | 2385.7 | 2371.7 |
| 17.5° | 2563.5 | 2563.5 | 2553.1 | 2535.6 | 2507.7 | 2472.9 | 2434.5 | 2396.1 | 2354.3 | 2315.9 | 2298.5 |
| 20°   | 2518.2 | 2518.2 | 2504.3 | 2483.3 | 2455.5 | 2410.0 | 2368.3 | 2322.8 | 2274.0 | 2235.6 | 2218.2 |
| 22.5° | 2451.9 | 2455.5 | 2437.9 | 2413.6 | 2382.2 | 2329.9 | 2288.0 | 2232.2 | 2183.4 | 2138.1 | 2124.1 |
| 25°   | 2364.7 | 2371.7 | 2354.3 | 2329.9 | 2288.0 | 2242.7 | 2190.3 | 2138.1 | 2082.2 | 2036.9 | 2015.9 |
| 27.5° | 2263.5 | 2267.1 | 2249.6 | 2225.3 | 2183.4 | 2134.6 | 2082.2 | 2026.4 | 1974.2 | 1925.3 | 1904.4 |
| 30°   | 2152.0 | 2138.1 | 2131.0 | 2099.6 | 2054.3 | 2012.5 | 1953.2 | 1907.8 | 1852.0 | 1810.1 | 1785.8 |
| 32.5° | 1995.0 | 2002.0 | 1981.1 | 1956.6 | 1921.8 | 1873.0 | 1824.1 | 1771.9 | 1719.5 | 1688.1 | 1670.7 |
| 35°   | 1838.1 | 1845.1 | 1834.6 | 1810.1 | 1771.9 | 1730.0 | 1681.1 | 1642.8 | 1597.5 | 1559.1 | 1541.6 |
| 37.5° | 1674.2 | 1674.2 | 1667.1 | 1653.2 | 1625.4 | 1587.0 | 1538.2 | 1499.8 | 1461.4 | 1430.0 | 1419.5 |
| 40°   | 1510.3 | 1503.2 | 1499.8 | 1489.3 | 1464.9 | 1430.0 | 1398.6 | 1367.2 | 1328.8 | 1308.0 | 1294.0 |
| 42.5° | 1349.8 | 1349.8 | 1342.8 | 1332.3 | 1308.0 | 1290.5 | 1259.1 | 1224.2 | 1196.3 | 1175.4 | 1175.4 |
| 45°   | 1203.3 | 1206.8 | 1196.3 | 1189.4 | 1175.4 | 1147.5 | 1119.6 | 1095.2 | 1070.8 | 1056.9 | 1049.8 |
| 47.5° | 1074.3 | 1074.3 | 1063.8 | 1056.9 | 1042.9 | 1018.5 | 994.0  | 973.1  | 955.7  | 945.2  | 941.8  |
| 50°   | 952.1  | 952.1  | 952.1  | 934.7  | 917.3  | 899.9  | 882.5  | 858.0  | 847.5  | 840.6  | 837.0  |
| 52.5° | 847.5  | 844.1  | 844.1  | 830.1  | 812.7  | 791.7  | 774.3  | 753.4  | 742.9  | 736.0  | 739.4  |
| 55°   | 753.4  | 753.4  | 749.8  | 732.4  | 715.0  | 694.1  | 676.6  | 659.2  | 652.2  | 645.2  | 648.8  |
| 56°   | 715.0  | 715.0  | 711.5  | 697.6  | 676.6  | 659.2  | 638.3  | 620.9  | 610.4  | 613.8  | 613.8  |
| 57°   | 687.1  | 680.2  | 680.2  | 662.6  | 645.2  | 620.9  | 603.3  | 585.9  | 579.0  | 575.5  | 575.5  |
| 58°   | 652.2  | 648.8  | 645.2  | 627.8  | 610.4  | 589.4  | 572.0  | 554.6  | 544.1  | 544.1  | 540.6  |
| 59°   | 617.3  | 617.3  | 610.4  | 596.4  | 579.0  | 558.0  | 540.6  | 523.2  | 512.7  | 509.2  | 509.2  |
| 60°   | 585.9  | 589.4  | 579.0  | 565.1  | 551.1  | 526.6  | 505.8  | 491.8  | 481.3  | 477.9  | 477.9  |
| 61°   | 558.0  | 558.0  | 551.1  | 533.7  | 516.1  | 498.7  | 477.9  | 460.4  | 453.4  | 446.5  | 446.5  |
| 62°   | 533.7  | 526.6  | 523.2  | 505.8  | 488.3  | 467.4  | 449.9  | 432.5  | 422.0  | 415.0  | 418.6  |
| 63°   | 502.2  | 498.7  | 491.8  | 477.9  | 460.4  | 439.4  | 418.6  | 404.6  | 394.1  | 383.6  | 387.2  |
| 64°   | 477.9  | 474.4  | 463.9  | 449.9  | 432.5  | 411.5  | 390.7  | 376.7  | 369.7  | 359.3  | 355.7  |
| 65°   | 446.5  | 442.9  | 439.4  | 422.0  | 404.6  | 383.6  | 366.2  | 352.2  | 341.8  | 334.8  | 327.9  |
| 66°   | 418.6  | 422.0  | 415.0  | 401.2  | 380.2  | 362.7  | 338.3  | 324.3  | 317.4  | 306.9  | 300.0  |
| 67°   | 394.1  | 394.1  | 387.2  | 373.2  | 352.2  | 334.8  | 317.4  | 300.0  | 289.5  | 279.0  | 275.5  |
| 67.5° | 380.2  | 380.2  | 373.2  | 355.7  | 341.8  | 320.9  | 303.5  | 289.5  | 275.5  | 268.5  | 261.6  |
| 68°   | 366.2  | 366.2  | 362.7  | 348.8  | 331.4  | 310.4  | 293.0  | 275.5  | 261.6  | 251.1  | 247.6  |
| 69°   | 341.8  | 345.3  | 338.3  | 324.3  | 306.9  | 286.0  | 268.5  | 254.6  | 240.7  | 230.2  | 223.2  |
| 70°   | 320.9  | 317.4  | 310.4  | 296.4  | 279.0  | 265.1  | 247.6  | 230.2  | 216.3  | 202.3  | 198.8  |
| 71°   | 293.0  | 293.0  | 286.0  | 275.5  | 258.1  | 240.7  | 223.2  | 209.2  | 195.3  | 177.9  | 174.4  |
| 72°   | 272.1  | 272.1  | 265.1  | 251.1  | 237.1  | 219.7  | 202.3  | 184.9  | 174.4  | 157.0  | 149.9  |
| 72.5° | 258.1  | 261.6  | 254.6  | 240.7  | 226.8  | 205.8  | 191.8  | 177.9  | 160.4  | 146.5  | 139.6  |
| 73°   | 251.1  | 247.6  | 244.2  | 230.2  | 212.8  | 198.8  | 181.3  | 167.4  | 149.9  | 136.0  | 129.1  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 77.5° | 157.0 | 157.0 | 153.5 | 139.6 | 125.6 | 111.6 | 97.7 | 83.7 | 69.8 | 55.8 | 48.8 |
| 80°   | 108.1 | 111.6 | 104.6 | 97.7  | 87.2  | 73.2  | 59.3 | 48.8 | 34.8 | 27.9 | 20.9 |
| 82.5° | 69.8  | 69.8  | 66.3  | 59.3  | 52.4  | 41.9  | 34.8 | 24.5 | 17.4 | 14.0 | 10.5 |
| 85°   | 34.8  | 38.4  | 34.8  | 31.4  | 24.5  | 20.9  | 17.4 | 10.5 | 6.9  | 3.5  | 3.5  |
| 87.5° | 14.0  | 14.0  | 14.0  | 10.5  | 10.5  | 6.9   | 3.5  | 3.5  | 3.5  | 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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**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 | 2574.0 |
| 2.5°  | 2563.5 | 2563.5 | 2556.5 | 2553.1 | 2549.6 | 2546.1 | 2542.7 | 2539.1 | 2539.1 | 2542.7 |
| 5°    | 2542.7 | 2535.6 | 2521.7 | 2518.2 | 2507.7 | 2504.3 | 2497.2 | 2493.8 | 2497.2 | 2493.8 |
| 7.5°  | 2511.2 | 2497.2 | 2479.8 | 2472.9 | 2458.9 | 2451.9 | 2441.5 | 2441.5 | 2434.5 | 2437.9 |
| 10°   | 2469.4 | 2448.4 | 2427.6 | 2413.6 | 2403.1 | 2392.6 | 2385.7 | 2378.7 | 2375.2 | 2375.2 |
| 12.5° | 2417.1 | 2392.6 | 2371.7 | 2350.7 | 2333.3 | 2326.4 | 2312.5 | 2312.5 | 2305.4 | 2302.0 |
| 15°   | 2357.8 | 2326.4 | 2302.0 | 2281.1 | 2267.1 | 2253.2 | 2242.7 | 2235.6 | 2228.7 | 2228.7 |
| 17.5° | 2281.1 | 2253.2 | 2228.7 | 2204.3 | 2183.4 | 2172.9 | 2162.4 | 2152.0 | 2152.0 | 2145.0 |
| 20°   | 2197.3 | 2166.0 | 2145.0 | 2120.6 | 2103.1 | 2085.7 | 2071.7 | 2071.7 | 2064.8 | 2068.3 |
| 22.5° | 2103.1 | 2064.8 | 2043.8 | 2026.4 | 2009.0 | 1995.0 | 1981.1 | 1981.1 | 1977.6 | 1974.2 |
| 25°   | 1998.5 | 1967.1 | 1942.7 | 1921.8 | 1911.3 | 1897.3 | 1893.9 | 1887.0 | 1883.4 | 1883.4 |
| 27.5° | 1887.0 | 1862.5 | 1831.1 | 1820.6 | 1806.7 | 1799.8 | 1799.8 | 1796.2 | 1789.3 | 1792.7 |
| 30°   | 1768.3 | 1740.4 | 1722.9 | 1716.0 | 1702.1 | 1702.1 | 1698.6 | 1691.6 | 1691.6 | 1695.0 |
| 32.5° | 1653.2 | 1625.4 | 1611.4 | 1607.8 | 1593.9 | 1593.9 | 1590.4 | 1593.9 | 1593.9 | 1597.5 |
| 35°   | 1527.7 | 1503.2 | 1499.8 | 1489.3 | 1485.8 | 1485.8 | 1485.8 | 1492.7 | 1499.8 | 1489.3 |
| 37.5° | 1409.1 | 1391.7 | 1381.2 | 1377.7 | 1381.2 | 1381.2 | 1384.7 | 1395.2 | 1391.7 | 1388.1 |
| 40°   | 1287.0 | 1273.0 | 1266.1 | 1266.1 | 1273.0 | 1280.0 | 1280.0 | 1290.5 | 1294.0 | 1290.5 |
| 42.5° | 1164.9 | 1154.4 | 1154.4 | 1157.9 | 1164.9 | 1168.4 | 1178.9 | 1189.4 | 1192.8 | 1196.3 |
| 45°   | 1049.8 | 1049.8 | 1049.8 | 1053.3 | 1056.9 | 1063.8 | 1077.7 | 1088.2 | 1091.7 | 1095.2 |
| 47.5° | 938.2  | 934.7  | 945.2  | 948.7  | 959.2  | 962.6  | 973.1  | 987.1  | 990.5  | 994.0  |
| 50°   | 833.6  | 840.6  | 844.1  | 854.6  | 861.5  | 861.5  | 875.4  | 882.5  | 892.8  | 892.8  |
| 52.5° | 736.0  | 746.4  | 749.8  | 760.3  | 763.8  | 767.4  | 774.3  | 784.8  | 791.7  | 791.7  |
| 55°   | 648.8  | 652.2  | 659.2  | 662.6  | 673.1  | 676.6  | 683.6  | 687.1  | 697.6  | 694.1  |
| 56°   | 610.4  | 617.3  | 620.9  | 627.8  | 634.8  | 638.3  | 645.2  | 648.8  | 655.7  | 659.2  |
| 57°   | 575.5  | 579.0  | 589.4  | 593.0  | 599.9  | 599.9  | 603.3  | 613.8  | 613.8  | 617.3  |
| 58°   | 540.6  | 547.6  | 551.1  | 554.6  | 561.6  | 565.1  | 572.0  | 575.5  | 579.0  | 575.5  |
| 59°   | 509.2  | 512.7  | 516.1  | 516.1  | 523.2  | 523.2  | 533.7  | 540.6  | 544.1  | 544.1  |
| 60°   | 477.9  | 477.9  | 481.3  | 484.8  | 491.8  | 495.3  | 495.3  | 502.2  | 502.2  | 502.2  |
| 61°   | 446.5  | 446.5  | 449.9  | 453.4  | 456.9  | 456.9  | 463.9  | 463.9  | 467.4  | 470.8  |
| 62°   | 418.6  | 415.0  | 415.0  | 418.6  | 418.6  | 425.5  | 428.9  | 432.5  | 436.0  | 432.5  |
| 63°   | 387.2  | 383.6  | 383.6  | 383.6  | 383.6  | 390.7  | 390.7  | 394.1  | 401.2  | 397.6  |
| 64°   | 352.2  | 352.2  | 352.2  | 352.2  | 355.7  | 355.7  | 362.7  | 366.2  | 369.7  | 373.2  |
| 65°   | 327.9  | 320.9  | 317.4  | 317.4  | 320.9  | 324.3  | 327.9  | 331.4  | 334.8  | 334.8  |
| 66°   | 300.0  | 293.0  | 289.5  | 289.5  | 289.5  | 289.5  | 296.4  | 296.4  | 303.5  | 303.5  |
| 67°   | 268.5  | 261.6  | 258.1  | 254.6  | 254.6  | 254.6  | 265.1  | 261.6  | 261.6  | 261.6  |
| 67.5° | 258.1  | 247.6  | 244.2  | 240.7  | 237.1  | 244.2  | 240.7  | 244.2  | 244.2  | 240.7  |
| 68°   | 244.2  | 237.1  | 230.2  | 223.2  | 223.2  | 223.2  | 226.8  | 230.2  | 226.8  | 223.2  |
| 69°   | 216.3  | 212.8  | 202.3  | 195.3  | 191.8  | 195.3  | 191.8  | 195.3  | 191.8  | 195.3  |
| 70°   | 191.8  | 181.3  | 170.9  | 167.4  | 163.9  | 163.9  | 163.9  | 160.4  | 163.9  | 160.4  |
| 71°   | 167.4  | 157.0  | 146.5  | 139.6  | 136.0  | 136.0  | 132.5  | 136.0  | 132.5  | 136.0  |
| 72°   | 143.0  | 132.5  | 118.6  | 111.6  | 111.6  | 111.6  | 111.6  | 108.1  | 111.6  | 108.1  |
| 72.5° | 132.5  | 118.6  | 108.1  | 101.2  | 97.7   | 97.7   | 97.7   | 97.7   | 94.1   | 97.7   |
| 73°   | 122.0  | 108.1  | 94.1   | 90.7   | 90.7   | 90.7   | 87.2   | 83.7   | 87.2   | 87.2   |





TEST NUMBER: P585059  
CATALOG NUMBER: HCC8S60D010MW-HM86080827-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 41.9 | 31.4 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 24.5 | 24.5 |
| 80°   | 17.4 | 14.0 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| 82.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  |
| 85°   | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  |
| 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°

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Peachtree City, GA 30269



|     |       |       |       |       |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74° | 226.8 | 226.8 | 219.7 | 209.2 | 191.8 | 174.4 | 160.4 | 146.5 | 129.1 | 111.6 | 104.6 |
| 75° | 209.2 | 205.8 | 198.8 | 188.4 | 174.4 | 157.0 | 143.0 | 125.6 | 111.6 | 94.1  | 87.2  |

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|     |       |      |      |      |      |      |      |      |      |      |
|-----|-------|------|------|------|------|------|------|------|------|------|
| 74° | 101.2 | 83.7 | 76.7 | 69.8 | 69.8 | 69.8 | 66.3 | 66.3 | 66.3 | 69.8 |
| 75° | 80.3  | 66.3 | 59.3 | 52.4 | 55.8 | 52.4 | 55.8 | 52.4 | 52.4 | 52.4 |

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(END OF REPORT)