

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: P584787

Luminaire Tested: **HCC8S50D010MW-HM82555827-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584787  
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: HCC8S50D010MW-HM82555827-81RWWH  
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**

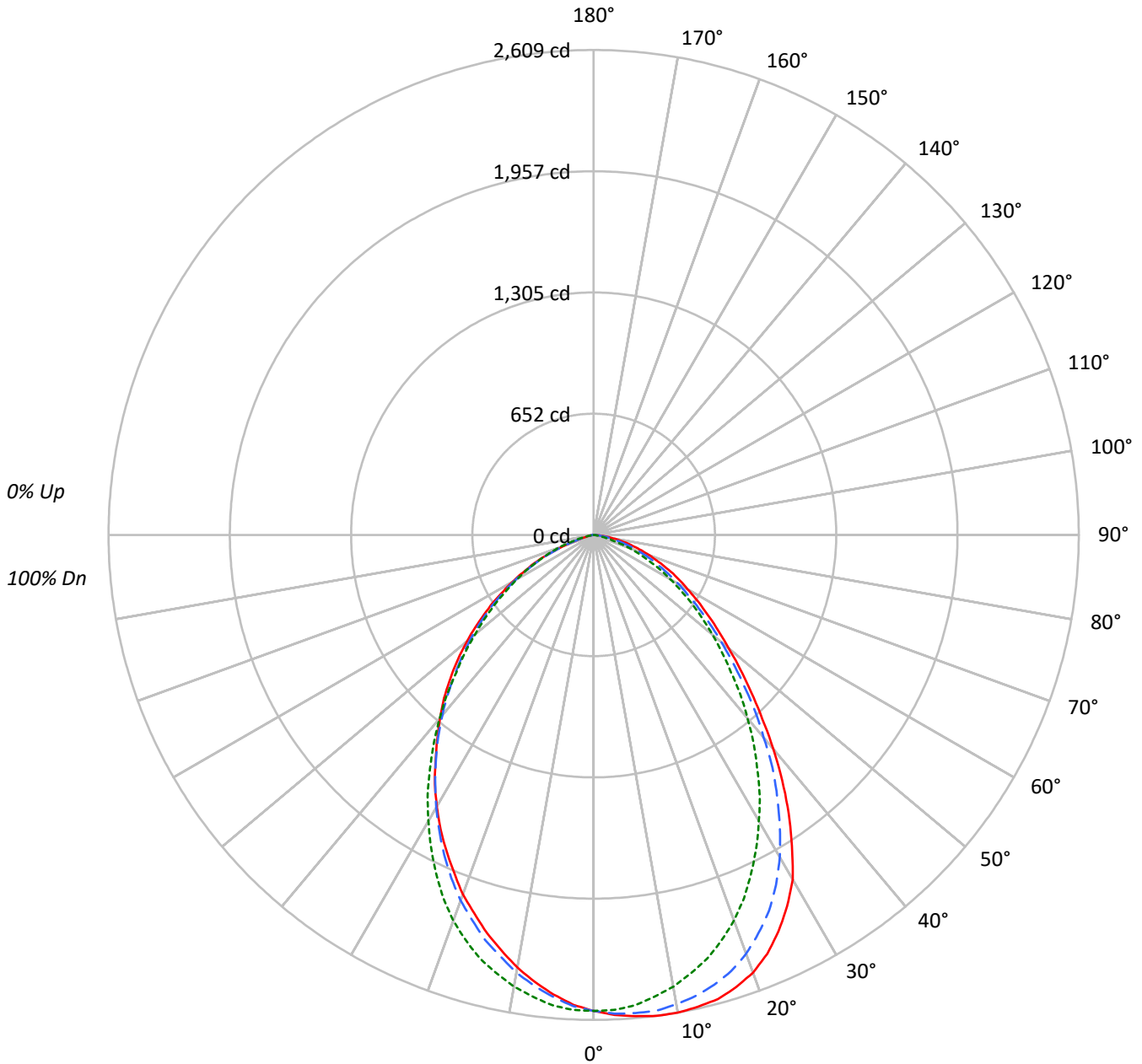
Lumens per Lamp: N/A  
Luminaire Lumens: 4800.8 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584787  
CATALOG NUMBER: HCC8S50D010MW-HM82555827-81RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P584787

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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 | 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°  | 78969 | 78969 | 78969 |
| 5°  | 80450 | 78623 | 76800 |
| 10° | 81706 | 77253 | 73993 |
| 15° | 82527 | 75328 | 70789 |
| 20° | 82216 | 72423 | 67524 |
| 25° | 80049 | 68242 | 63754 |
| 30° | 76234 | 63259 | 60047 |
| 35° | 68840 | 57735 | 55777 |
| 40° | 60482 | 51823 | 51682 |
| 45° | 52209 | 45550 | 47517 |
| 50° | 45449 | 39952 | 42614 |
| 55° | 40300 | 34698 | 37122 |
| 60° | 35955 | 29319 | 30812 |
| 65° | 32411 | 23801 | 24312 |
| 70° | 28788 | 17834 | 14389 |
| 75° | 24805 | 10330 | 6195  |
| 80° | 19090 | 3694  | 1847  |
| 85° | 12277 | 1238  | 1238  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 240.4  | 5.0       |
| 10°-20°   | 669.2  | 13.9      |
| 20°-30°   | 946.5  | 19.7      |
| 30°-40°   | 997.4  | 20.8      |
| 40°-50°   | 847.7  | 17.7      |
| 50°-60°   | 610.4  | 12.7      |
| 60°-70°   | 352.1  | 7.3       |
| 70°-80°   | 120.5  | 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°    | 1856.2 | 38.7      |
| 0°-40°    | 2853.6 | 59.4      |
| 0°-60°    | 4311.7 | 89.8      |
| 0°-90°    | 4800.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4800.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2561 | 2561 | 2561 | 2561 | 2561 |      |
| 5°  | 2599 | 2582 | 2540 | 2495 | 2481 | 248  |
| 15° | 2585 | 2505 | 2360 | 2256 | 2217 | 728  |
| 25° | 2353 | 2231 | 2006 | 1902 | 1874 | 1079 |
| 35° | 1829 | 1721 | 1534 | 1478 | 1482 | 1139 |
| 45° | 1197 | 1142 | 1044 | 1051 | 1090 | 930  |
| 55° | 750  | 690  | 645  | 670  | 690  | 674  |
| 65° | 444  | 382  | 326  | 319  | 333  | 442  |
| 75° | 208  | 156  | 87   | 56   | 52   | 220  |
| 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°    | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 |
| 2.5°  | 2585.1 | 2588.6 | 2585.1 | 2585.1 | 2581.7 | 2578.2 | 2574.7 | 2571.3 | 2564.3 | 2557.4 | 2557.4 |
| 5°    | 2599.0 | 2605.9 | 2599.0 | 2599.0 | 2588.6 | 2581.7 | 2574.7 | 2564.3 | 2550.4 | 2540.0 | 2540.0 |
| 7.5°  | 2609.4 | 2609.4 | 2609.4 | 2599.0 | 2592.1 | 2581.7 | 2564.3 | 2547.0 | 2529.6 | 2512.3 | 2505.4 |
| 10°   | 2609.4 | 2609.4 | 2605.9 | 2592.1 | 2585.1 | 2564.3 | 2547.0 | 2522.7 | 2498.4 | 2474.1 | 2467.2 |
| 12.5° | 2599.0 | 2602.5 | 2595.5 | 2581.7 | 2564.3 | 2540.0 | 2515.8 | 2484.6 | 2456.8 | 2429.1 | 2415.2 |
| 15°   | 2585.1 | 2581.7 | 2574.7 | 2557.4 | 2536.6 | 2505.4 | 2481.1 | 2446.4 | 2408.1 | 2373.5 | 2359.6 |
| 17.5° | 2550.4 | 2550.4 | 2540.0 | 2522.7 | 2495.0 | 2460.3 | 2422.1 | 2383.9 | 2342.2 | 2304.1 | 2286.8 |
| 20°   | 2505.4 | 2505.4 | 2491.5 | 2470.7 | 2442.9 | 2397.7 | 2356.1 | 2311.0 | 2262.5 | 2224.3 | 2207.0 |
| 22.5° | 2439.5 | 2442.9 | 2425.6 | 2401.2 | 2370.0 | 2318.0 | 2276.3 | 2220.9 | 2172.2 | 2127.1 | 2113.2 |
| 25°   | 2352.7 | 2359.6 | 2342.2 | 2318.0 | 2276.3 | 2231.3 | 2179.1 | 2127.1 | 2071.6 | 2026.5 | 2005.7 |
| 27.5° | 2252.1 | 2255.5 | 2238.2 | 2213.9 | 2172.2 | 2123.6 | 2071.6 | 2016.1 | 1964.0 | 1915.4 | 1894.6 |
| 30°   | 2141.0 | 2127.1 | 2120.2 | 2089.0 | 2043.9 | 2002.1 | 1943.2 | 1898.1 | 1842.6 | 1801.0 | 1776.6 |
| 32.5° | 1984.8 | 1991.7 | 1970.9 | 1946.7 | 1912.0 | 1863.4 | 1814.9 | 1762.7 | 1710.7 | 1679.5 | 1662.1 |
| 35°   | 1828.7 | 1835.7 | 1825.3 | 1801.0 | 1762.7 | 1721.1 | 1672.6 | 1634.4 | 1589.3 | 1551.1 | 1533.7 |
| 37.5° | 1665.6 | 1665.6 | 1658.7 | 1644.8 | 1617.1 | 1578.9 | 1530.2 | 1492.1 | 1453.9 | 1422.7 | 1412.3 |
| 40°   | 1502.5 | 1495.6 | 1492.1 | 1481.7 | 1457.4 | 1422.7 | 1391.5 | 1360.2 | 1322.0 | 1301.2 | 1287.4 |
| 42.5° | 1342.9 | 1342.9 | 1335.9 | 1325.5 | 1301.2 | 1283.9 | 1252.7 | 1218.0 | 1190.2 | 1169.4 | 1169.4 |
| 45°   | 1197.2 | 1200.7 | 1190.2 | 1183.3 | 1169.4 | 1141.6 | 1113.8 | 1089.6 | 1065.3 | 1051.4 | 1044.5 |
| 47.5° | 1068.8 | 1068.8 | 1058.4 | 1051.4 | 1037.5 | 1013.3 | 989.0  | 968.2  | 950.7  | 940.3  | 937.0  |
| 50°   | 947.4  | 947.4  | 947.4  | 929.9  | 912.6  | 895.2  | 877.9  | 853.6  | 843.2  | 836.3  | 832.8  |
| 52.5° | 843.2  | 839.7  | 839.7  | 825.9  | 808.5  | 787.7  | 770.4  | 749.6  | 739.2  | 732.1  | 735.7  |
| 55°   | 749.6  | 749.6  | 746.1  | 728.8  | 711.3  | 690.5  | 673.2  | 655.8  | 648.9  | 641.9  | 645.4  |
| 56°   | 711.3  | 711.3  | 707.8  | 694.0  | 673.2  | 655.8  | 635.0  | 617.7  | 607.3  | 610.7  | 610.7  |
| 57°   | 683.6  | 676.6  | 676.6  | 659.3  | 641.9  | 617.7  | 600.3  | 583.0  | 576.0  | 572.6  | 572.6  |
| 58°   | 648.9  | 645.4  | 641.9  | 624.6  | 607.3  | 586.5  | 569.1  | 551.8  | 541.4  | 541.4  | 537.9  |
| 59°   | 614.2  | 614.2  | 607.3  | 593.4  | 576.0  | 555.2  | 537.9  | 520.6  | 510.0  | 506.6  | 506.6  |
| 60°   | 583.0  | 586.5  | 576.0  | 562.2  | 548.3  | 523.9  | 503.1  | 489.2  | 478.8  | 475.4  | 475.4  |
| 61°   | 555.2  | 555.2  | 548.3  | 531.0  | 513.5  | 496.2  | 475.4  | 458.0  | 451.1  | 444.2  | 444.2  |
| 62°   | 531.0  | 523.9  | 520.6  | 503.1  | 485.8  | 465.0  | 447.6  | 430.3  | 419.9  | 412.9  | 416.4  |
| 63°   | 499.6  | 496.2  | 489.2  | 475.4  | 458.0  | 437.2  | 416.4  | 402.5  | 392.1  | 381.7  | 385.2  |
| 64°   | 475.4  | 471.9  | 461.5  | 447.6  | 430.3  | 409.5  | 388.7  | 374.8  | 367.8  | 357.4  | 354.0  |
| 65°   | 444.2  | 440.7  | 437.2  | 419.9  | 402.5  | 381.7  | 364.4  | 350.5  | 340.1  | 333.2  | 326.2  |
| 66°   | 416.4  | 419.9  | 412.9  | 399.1  | 378.3  | 360.9  | 336.6  | 322.8  | 315.7  | 305.3  | 298.4  |
| 67°   | 392.1  | 392.1  | 385.2  | 371.3  | 350.5  | 333.2  | 315.7  | 298.4  | 288.0  | 277.6  | 274.1  |
| 67.5° | 378.3  | 378.3  | 371.3  | 354.0  | 340.1  | 319.3  | 301.8  | 288.0  | 274.1  | 267.2  | 260.2  |
| 68°   | 364.4  | 364.4  | 360.9  | 347.0  | 329.7  | 308.8  | 291.4  | 274.1  | 260.2  | 249.8  | 246.4  |
| 69°   | 340.1  | 343.6  | 336.6  | 322.8  | 305.3  | 284.5  | 267.2  | 253.3  | 239.4  | 229.0  | 222.1  |
| 70°   | 319.3  | 315.7  | 308.8  | 294.9  | 277.6  | 263.7  | 246.4  | 229.0  | 215.1  | 201.3  | 197.8  |
| 71°   | 291.4  | 291.4  | 284.5  | 274.1  | 256.8  | 239.4  | 222.1  | 208.2  | 194.3  | 177.0  | 173.5  |
| 72°   | 270.6  | 270.6  | 263.7  | 249.8  | 235.9  | 218.6  | 201.3  | 183.9  | 173.5  | 156.2  | 149.2  |
| 72.5° | 256.8  | 260.2  | 253.3  | 239.4  | 225.5  | 204.7  | 190.9  | 177.0  | 159.6  | 145.8  | 138.8  |
| 73°   | 249.8  | 246.4  | 242.9  | 229.0  | 211.7  | 197.8  | 180.5  | 166.6  | 149.2  | 135.4  | 128.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 77.5° | 156.2 | 156.2 | 152.7 | 138.8 | 125.0 | 111.1 | 97.1 | 83.2 | 69.4 | 55.5 | 48.6 |
| 80°   | 107.5 | 111.1 | 104.2 | 97.1  | 86.7  | 72.8  | 59.0 | 48.6 | 34.7 | 27.7 | 20.8 |
| 82.5° | 69.4  | 69.4  | 65.9  | 59.0  | 52.0  | 41.6  | 34.7 | 24.3 | 17.3 | 13.9 | 10.4 |
| 85°   | 34.7  | 38.2  | 34.7  | 31.2  | 24.3  | 20.8  | 17.3 | 10.4 | 6.9  | 3.5  | 3.5  |
| 87.5° | 13.9  | 13.9  | 13.9  | 10.4  | 10.4  | 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°    | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 | 2560.9 |
| 2.5°  | 2550.4 | 2550.4 | 2543.5 | 2540.0 | 2536.6 | 2533.1 | 2529.6 | 2526.2 | 2526.2 | 2529.6 |
| 5°    | 2529.6 | 2522.7 | 2508.8 | 2505.4 | 2495.0 | 2491.5 | 2484.6 | 2481.1 | 2484.6 | 2481.1 |
| 7.5°  | 2498.4 | 2484.6 | 2467.2 | 2460.3 | 2446.4 | 2439.5 | 2429.1 | 2429.1 | 2422.1 | 2425.6 |
| 10°   | 2456.8 | 2436.0 | 2415.2 | 2401.2 | 2390.8 | 2380.4 | 2373.5 | 2366.5 | 2363.1 | 2363.1 |
| 12.5° | 2404.7 | 2380.4 | 2359.6 | 2338.8 | 2321.4 | 2314.5 | 2300.6 | 2300.6 | 2293.7 | 2290.2 |
| 15°   | 2345.7 | 2314.5 | 2290.2 | 2269.4 | 2255.5 | 2241.7 | 2231.3 | 2224.3 | 2217.4 | 2217.4 |
| 17.5° | 2269.4 | 2241.7 | 2217.4 | 2193.0 | 2172.2 | 2161.8 | 2151.4 | 2141.0 | 2141.0 | 2134.0 |
| 20°   | 2186.1 | 2154.9 | 2134.0 | 2109.8 | 2092.4 | 2075.1 | 2061.2 | 2061.2 | 2054.3 | 2057.7 |
| 22.5° | 2092.4 | 2054.3 | 2033.5 | 2016.1 | 1998.8 | 1984.8 | 1970.9 | 1970.9 | 1967.5 | 1964.0 |
| 25°   | 1988.4 | 1957.1 | 1932.8 | 1912.0 | 1901.6 | 1887.7 | 1884.2 | 1877.3 | 1873.8 | 1873.8 |
| 27.5° | 1877.3 | 1853.0 | 1821.8 | 1811.4 | 1797.5 | 1790.6 | 1790.6 | 1787.1 | 1780.2 | 1783.5 |
| 30°   | 1759.3 | 1731.5 | 1714.2 | 1707.2 | 1693.4 | 1693.4 | 1689.9 | 1683.0 | 1683.0 | 1686.4 |
| 32.5° | 1644.8 | 1617.1 | 1603.2 | 1599.7 | 1585.7 | 1585.7 | 1582.4 | 1585.7 | 1585.7 | 1589.3 |
| 35°   | 1519.8 | 1495.6 | 1492.1 | 1481.7 | 1478.2 | 1478.2 | 1478.2 | 1485.2 | 1492.1 | 1481.7 |
| 37.5° | 1401.9 | 1384.6 | 1374.2 | 1370.7 | 1374.2 | 1374.2 | 1377.5 | 1388.0 | 1384.6 | 1381.1 |
| 40°   | 1280.4 | 1266.6 | 1259.6 | 1259.6 | 1266.6 | 1273.5 | 1273.5 | 1283.9 | 1287.4 | 1283.9 |
| 42.5° | 1158.9 | 1148.5 | 1148.5 | 1152.0 | 1158.9 | 1162.5 | 1172.9 | 1183.3 | 1186.8 | 1190.2 |
| 45°   | 1044.5 | 1044.5 | 1044.5 | 1047.9 | 1051.4 | 1058.4 | 1072.2 | 1082.6 | 1086.1 | 1089.6 |
| 47.5° | 933.4  | 929.9  | 940.3  | 943.9  | 954.3  | 957.8  | 968.2  | 982.0  | 985.5  | 989.0  |
| 50°   | 829.3  | 836.3  | 839.7  | 850.1  | 857.1  | 857.1  | 871.0  | 877.9  | 888.3  | 888.3  |
| 52.5° | 732.1  | 742.5  | 746.1  | 756.5  | 760.0  | 763.4  | 770.4  | 780.8  | 787.7  | 787.7  |
| 55°   | 645.4  | 648.9  | 655.8  | 659.3  | 669.7  | 673.2  | 680.1  | 683.6  | 694.0  | 690.5  |
| 56°   | 607.3  | 614.2  | 617.7  | 624.6  | 631.5  | 635.0  | 641.9  | 645.4  | 652.4  | 655.8  |
| 57°   | 572.6  | 576.0  | 586.5  | 589.9  | 596.9  | 596.9  | 600.3  | 610.7  | 610.7  | 614.2  |
| 58°   | 537.9  | 544.8  | 548.3  | 551.8  | 558.7  | 562.2  | 569.1  | 572.6  | 576.0  | 572.6  |
| 59°   | 506.6  | 510.0  | 513.5  | 513.5  | 520.6  | 520.6  | 531.0  | 537.9  | 541.4  | 541.4  |
| 60°   | 475.4  | 475.4  | 478.8  | 482.3  | 489.2  | 492.7  | 492.7  | 499.6  | 499.6  | 499.6  |
| 61°   | 444.2  | 444.2  | 447.6  | 451.1  | 454.6  | 454.6  | 461.5  | 461.5  | 465.0  | 468.4  |
| 62°   | 416.4  | 412.9  | 412.9  | 416.4  | 416.4  | 423.3  | 426.8  | 430.3  | 433.7  | 430.3  |
| 63°   | 385.2  | 381.7  | 381.7  | 381.7  | 381.7  | 388.7  | 388.7  | 392.1  | 399.1  | 395.6  |
| 64°   | 350.5  | 350.5  | 350.5  | 350.5  | 354.0  | 354.0  | 360.9  | 364.4  | 367.8  | 371.3  |
| 65°   | 326.2  | 319.3  | 315.7  | 315.7  | 319.3  | 322.8  | 326.2  | 329.7  | 333.2  | 333.2  |
| 66°   | 298.4  | 291.4  | 288.0  | 288.0  | 288.0  | 288.0  | 294.9  | 294.9  | 301.8  | 301.8  |
| 67°   | 267.2  | 260.2  | 256.8  | 253.3  | 253.3  | 253.3  | 263.7  | 260.2  | 260.2  | 260.2  |
| 67.5° | 256.8  | 246.4  | 242.9  | 239.4  | 235.9  | 242.9  | 239.4  | 242.9  | 242.9  | 239.4  |
| 68°   | 242.9  | 235.9  | 229.0  | 222.1  | 222.1  | 222.1  | 225.5  | 229.0  | 225.5  | 222.1  |
| 69°   | 215.1  | 211.7  | 201.3  | 194.3  | 190.9  | 194.3  | 190.9  | 194.3  | 190.9  | 194.3  |
| 70°   | 190.9  | 180.5  | 170.0  | 166.6  | 163.1  | 163.1  | 163.1  | 159.6  | 163.1  | 159.6  |
| 71°   | 166.6  | 156.2  | 145.8  | 138.8  | 135.4  | 135.4  | 131.9  | 135.4  | 131.9  | 135.4  |
| 72°   | 142.3  | 131.9  | 118.0  | 111.1  | 111.1  | 111.1  | 111.1  | 107.5  | 111.1  | 107.5  |
| 72.5° | 131.9  | 118.0  | 107.5  | 100.7  | 97.1   | 97.1   | 97.1   | 97.1   | 93.6   | 97.1   |
| 73°   | 121.5  | 107.5  | 93.6   | 90.2   | 90.2   | 90.2   | 86.7   | 83.2   | 86.7   | 86.7   |





TEST NUMBER: P584787  
 CATALOG NUMBER: HCC8S50D010MW-HM82555827-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 41.6 | 31.2 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 24.3 | 24.3 |
| 80°   | 17.3 | 13.9 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 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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|     |       |       |       |       |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74° | 225.5 | 225.5 | 218.6 | 208.2 | 190.9 | 173.5 | 159.6 | 145.8 | 128.4 | 111.1 | 104.2 |
| 75° | 208.2 | 204.7 | 197.8 | 187.4 | 173.5 | 156.2 | 142.3 | 125.0 | 111.1 | 93.6  | 86.7  |

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|     |       |      |      |      |      |      |      |      |      |      |
|-----|-------|------|------|------|------|------|------|------|------|------|
| 74° | 100.7 | 83.2 | 76.3 | 69.4 | 69.4 | 69.4 | 65.9 | 65.9 | 65.9 | 69.4 |
| 75° | 79.8  | 65.9 | 59.0 | 52.0 | 55.5 | 52.0 | 55.5 | 52.0 | 52.0 | 52.0 |

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(END OF REPORT)