

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: P593563

Luminaire Tested: **HCC8W15D010MW-HM80520850-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593563  
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: HCC8W15D010MW-HM80520850-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

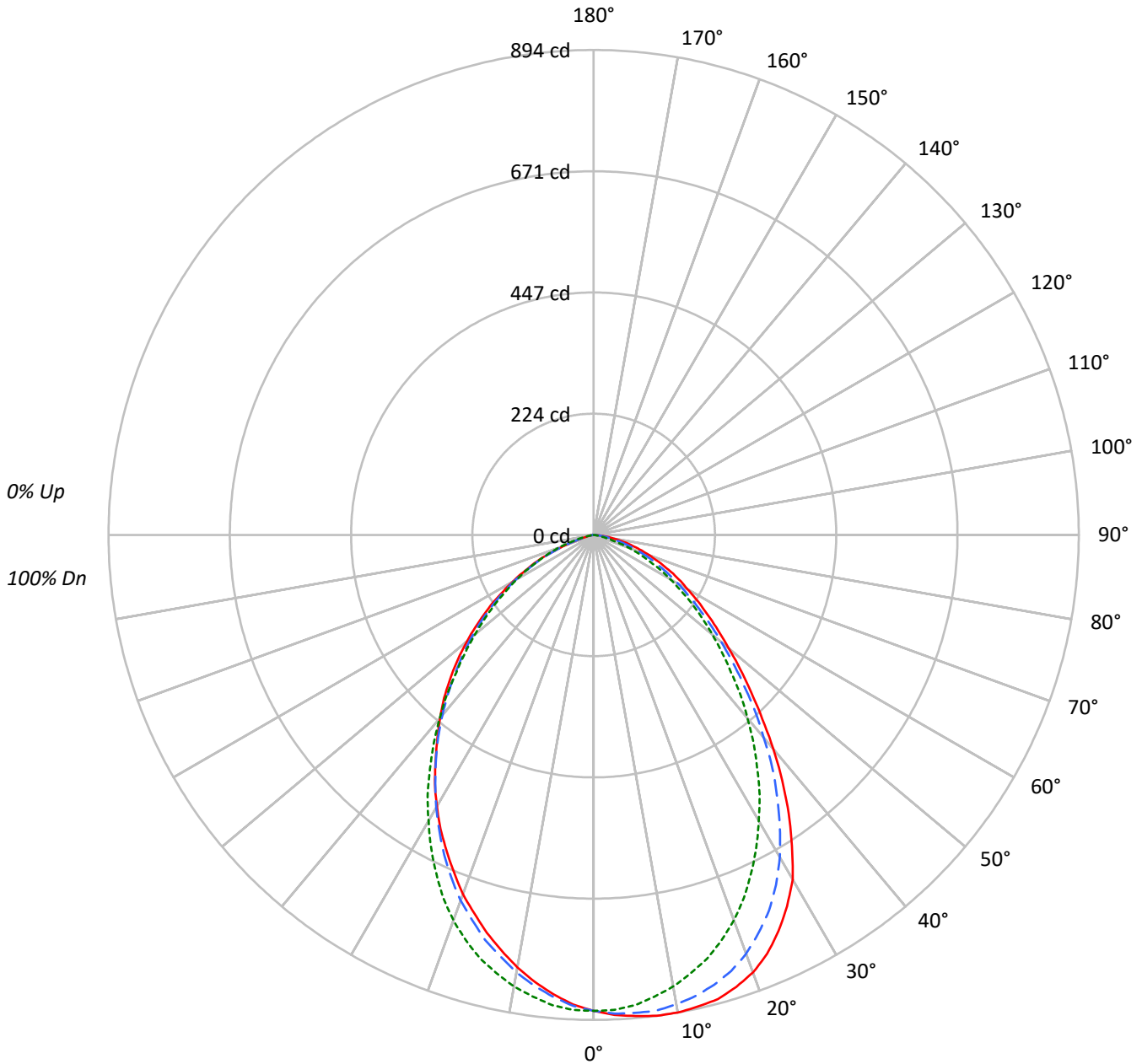
Lumens per Lamp: N/A  
Luminaire Lumens: 1644.7 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P593563  
CATALOG NUMBER: HCC8W15D010MW-HM80520850-81RWWH

### 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 | 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°  | 27056 | 27056 | 27056 |
| 5°  | 27562 | 26939 | 26311 |
| 10° | 27993 | 26465 | 25347 |
| 15° | 28275 | 25807 | 24250 |
| 20° | 28165 | 24808 | 23132 |
| 25° | 27423 | 23378 | 21840 |
| 30° | 26118 | 21670 | 20574 |
| 35° | 23584 | 19782 | 19112 |
| 40° | 20723 | 17752 | 17704 |
| 45° | 17888 | 15608 | 16279 |
| 50° | 15567 | 13687 | 14603 |
| 55° | 13806 | 11887 | 12715 |
| 60° | 12316 | 10046 | 10558 |
| 65° | 11105 | 8150  | 8325  |
| 70° | 9863  | 6104  | 4932  |
| 75° | 8495  | 3550  | 2121  |
| 80° | 6553  | 1261  | 639   |
| 85° | 4210  | 425   | 425   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.4   | 5.0       |
| 10°-20°   | 229.3  | 13.9      |
| 20°-30°   | 324.3  | 19.7      |
| 30°-40°   | 341.7  | 20.8      |
| 40°-50°   | 290.4  | 17.7      |
| 50°-60°   | 209.1  | 12.7      |
| 60°-70°   | 120.6  | 7.3       |
| 70°-80°   | 41.3   | 2.5       |
| 80°-90°   | 5.7    | 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°    | 635.9  | 38.7      |
| 0°-40°    | 977.6  | 59.4      |
| 0°-60°    | 1477.1 | 89.8      |
| 0°-90°    | 1644.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1644.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 877 | 877 | 877 | 877  | 877  |      |
| 5°  | 890 | 884 | 870 | 855  | 850  | 85   |
| 15° | 886 | 858 | 808 | 773  | 760  | 249  |
| 25° | 806 | 764 | 687 | 651  | 642  | 370  |
| 35° | 626 | 590 | 526 | 506  | 508  | 390  |
| 45° | 410 | 391 | 358 | 360  | 373  | 319  |
| 55° | 257 | 236 | 221 | 229  | 236  | 231  |
| 65° | 152 | 131 | 112 | 109  | 114  | 151  |
| 75° | 71  | 54  | 30  | 19   | 18   | 75   |
| 85° | 12  | 7   | 1   | 1    | 1    | 16   |
| 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°    | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 |
| 2.5°  | 885.7 | 886.9 | 885.7 | 885.7 | 884.5 | 883.3 | 882.1 | 880.9 | 878.6 | 876.2 | 876.2 |
| 5°    | 890.4 | 892.8 | 890.4 | 890.4 | 886.9 | 884.5 | 882.1 | 878.6 | 873.7 | 870.3 | 870.3 |
| 7.5°  | 894.0 | 894.0 | 894.0 | 890.4 | 888.0 | 884.5 | 878.6 | 872.5 | 866.6 | 860.7 | 858.3 |
| 10°   | 894.0 | 894.0 | 892.8 | 888.0 | 885.7 | 878.6 | 872.5 | 864.2 | 855.9 | 847.6 | 845.2 |
| 12.5° | 890.4 | 891.6 | 889.2 | 884.5 | 878.6 | 870.3 | 861.8 | 851.2 | 841.7 | 832.2 | 827.4 |
| 15°   | 885.7 | 884.5 | 882.1 | 876.2 | 869.0 | 858.3 | 850.0 | 838.1 | 825.1 | 813.1 | 808.4 |
| 17.5° | 873.7 | 873.7 | 870.3 | 864.2 | 854.7 | 842.9 | 829.8 | 816.7 | 802.4 | 789.4 | 783.4 |
| 20°   | 858.3 | 858.3 | 853.5 | 846.4 | 836.9 | 821.4 | 807.2 | 791.7 | 775.1 | 762.0 | 756.0 |
| 22.5° | 835.7 | 836.9 | 831.0 | 822.7 | 811.9 | 794.1 | 779.9 | 760.8 | 744.2 | 728.8 | 724.0 |
| 25°   | 806.0 | 808.4 | 802.4 | 794.1 | 779.9 | 764.3 | 746.6 | 728.8 | 709.7 | 694.2 | 687.1 |
| 27.5° | 771.6 | 772.8 | 766.7 | 758.4 | 744.2 | 727.6 | 709.7 | 690.7 | 672.9 | 656.2 | 649.1 |
| 30°   | 733.5 | 728.8 | 726.4 | 715.6 | 700.2 | 685.9 | 665.8 | 650.2 | 631.3 | 617.0 | 608.6 |
| 32.5° | 680.0 | 682.4 | 675.3 | 667.0 | 655.0 | 638.4 | 621.8 | 603.9 | 586.1 | 575.4 | 569.5 |
| 35°   | 626.5 | 628.9 | 625.3 | 617.0 | 603.9 | 589.6 | 573.0 | 560.0 | 544.4 | 531.4 | 525.5 |
| 37.5° | 570.6 | 570.6 | 568.3 | 563.5 | 553.9 | 540.9 | 524.3 | 511.2 | 498.1 | 487.4 | 483.8 |
| 40°   | 514.8 | 512.4 | 511.2 | 507.7 | 499.2 | 487.4 | 476.7 | 466.0 | 453.0 | 445.8 | 441.0 |
| 42.5° | 460.1 | 460.1 | 457.7 | 454.2 | 445.8 | 439.8 | 429.1 | 417.3 | 407.8 | 400.7 | 400.7 |
| 45°   | 410.2 | 411.3 | 407.8 | 405.4 | 400.7 | 391.1 | 381.6 | 373.3 | 365.0 | 360.2 | 357.9 |
| 47.5° | 366.2 | 366.2 | 362.6 | 360.2 | 355.5 | 347.2 | 338.8 | 331.6 | 325.7 | 322.2 | 321.0 |
| 50°   | 324.5 | 324.5 | 324.5 | 318.6 | 312.7 | 306.7 | 300.8 | 292.5 | 288.8 | 286.5 | 285.3 |
| 52.5° | 288.8 | 287.6 | 287.6 | 282.9 | 277.0 | 269.8 | 263.9 | 256.8 | 253.2 | 250.9 | 252.0 |
| 55°   | 256.8 | 256.8 | 255.6 | 249.7 | 243.7 | 236.5 | 230.6 | 224.7 | 222.3 | 219.9 | 221.1 |
| 56°   | 243.7 | 243.7 | 242.6 | 237.7 | 230.6 | 224.7 | 217.5 | 211.6 | 208.0 | 209.2 | 209.2 |
| 57°   | 234.1 | 231.8 | 231.8 | 225.8 | 219.9 | 211.6 | 205.7 | 199.7 | 197.4 | 196.2 | 196.2 |
| 58°   | 222.3 | 221.1 | 219.9 | 214.0 | 208.0 | 200.9 | 195.0 | 189.1 | 185.4 | 185.4 | 184.2 |
| 59°   | 210.4 | 210.4 | 208.0 | 203.3 | 197.4 | 190.1 | 184.2 | 178.3 | 174.7 | 173.5 | 173.5 |
| 60°   | 199.7 | 200.9 | 197.4 | 192.6 | 187.9 | 179.5 | 172.3 | 167.6 | 164.0 | 162.9 | 162.9 |
| 61°   | 190.1 | 190.1 | 187.9 | 181.8 | 175.9 | 170.0 | 162.9 | 156.9 | 154.6 | 152.2 | 152.2 |
| 62°   | 181.8 | 179.5 | 178.3 | 172.3 | 166.4 | 159.3 | 153.4 | 147.4 | 143.9 | 141.5 | 142.7 |
| 63°   | 171.2 | 170.0 | 167.6 | 162.9 | 156.9 | 149.8 | 142.7 | 137.9 | 134.4 | 130.7 | 131.9 |
| 64°   | 162.9 | 161.7 | 158.1 | 153.4 | 147.4 | 140.3 | 133.2 | 128.3 | 126.0 | 122.4 | 121.2 |
| 65°   | 152.2 | 151.0 | 149.8 | 143.9 | 137.9 | 130.7 | 124.8 | 120.0 | 116.5 | 114.1 | 111.7 |
| 66°   | 142.7 | 143.9 | 141.5 | 136.8 | 129.5 | 123.6 | 115.3 | 110.5 | 108.2 | 104.6 | 102.2 |
| 67°   | 134.4 | 134.4 | 131.9 | 127.2 | 120.0 | 114.1 | 108.2 | 102.2 | 98.7  | 95.1  | 93.9  |
| 67.5° | 129.5 | 129.5 | 127.2 | 121.2 | 116.5 | 109.4 | 103.4 | 98.7  | 93.9  | 91.6  | 89.2  |
| 68°   | 124.8 | 124.8 | 123.6 | 118.9 | 112.9 | 105.8 | 99.9  | 93.9  | 89.2  | 85.6  | 84.4  |
| 69°   | 116.5 | 117.7 | 115.3 | 110.5 | 104.6 | 97.5  | 91.6  | 86.8  | 82.1  | 78.4  | 76.0  |
| 70°   | 109.4 | 108.2 | 105.8 | 101.1 | 95.1  | 90.4  | 84.4  | 78.4  | 73.7  | 68.9  | 67.7  |
| 71°   | 99.9  | 99.9  | 97.5  | 93.9  | 88.0  | 82.1  | 76.0  | 71.3  | 66.5  | 60.6  | 59.4  |
| 72°   | 92.8  | 92.8  | 90.4  | 85.6  | 80.9  | 75.0  | 68.9  | 63.0  | 59.4  | 53.5  | 51.1  |
| 72.5° | 88.0  | 89.2  | 86.8  | 82.1  | 77.2  | 70.1  | 65.4  | 60.6  | 54.7  | 49.9  | 47.6  |
| 73°   | 85.6  | 84.4  | 83.3  | 78.4  | 72.5  | 67.7  | 61.8  | 57.1  | 51.1  | 46.4  | 44.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 53.5 | 53.5 | 52.3 | 47.6 | 42.8 | 38.1 | 33.3 | 28.6 | 23.7 | 19.0 | 16.6 |
| 80°   | 36.9 | 38.1 | 35.7 | 33.3 | 29.8 | 24.9 | 20.2 | 16.6 | 11.9 | 9.5  | 7.1  |
| 82.5° | 23.7 | 23.7 | 22.5 | 20.2 | 17.8 | 14.2 | 11.9 | 8.3  | 5.9  | 4.7  | 3.6  |
| 85°   | 11.9 | 13.1 | 11.9 | 10.7 | 8.3  | 7.1  | 5.9  | 3.6  | 2.4  | 1.2  | 1.2  |
| 87.5° | 4.7  | 4.7  | 4.7  | 3.6  | 3.6  | 2.4  | 1.2  | 1.2  | 1.2  | 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°    | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 | 877.4 |
| 2.5°  | 873.7 | 873.7 | 871.3 | 870.3 | 869.0 | 867.8 | 866.6 | 865.4 | 865.4 | 866.6 |
| 5°    | 866.6 | 864.2 | 859.5 | 858.3 | 854.7 | 853.5 | 851.2 | 850.0 | 851.2 | 850.0 |
| 7.5°  | 855.9 | 851.2 | 845.2 | 842.9 | 838.1 | 835.7 | 832.2 | 832.2 | 829.8 | 831.0 |
| 10°   | 841.7 | 834.6 | 827.4 | 822.7 | 819.0 | 815.5 | 813.1 | 810.7 | 809.5 | 809.5 |
| 12.5° | 823.9 | 815.5 | 808.4 | 801.2 | 795.3 | 792.9 | 788.2 | 788.2 | 785.8 | 784.6 |
| 15°   | 803.6 | 792.9 | 784.6 | 777.5 | 772.8 | 767.9 | 764.3 | 762.0 | 759.6 | 759.6 |
| 17.5° | 777.5 | 767.9 | 759.6 | 751.3 | 744.2 | 740.6 | 737.1 | 733.5 | 733.5 | 731.1 |
| 20°   | 748.9 | 738.2 | 731.1 | 722.8 | 716.9 | 711.0 | 706.1 | 706.1 | 703.7 | 704.9 |
| 22.5° | 716.9 | 703.7 | 696.6 | 690.7 | 684.8 | 680.0 | 675.3 | 675.3 | 674.1 | 672.9 |
| 25°   | 681.2 | 670.5 | 662.1 | 655.0 | 651.4 | 646.7 | 645.5 | 643.1 | 641.9 | 641.9 |
| 27.5° | 643.1 | 634.8 | 624.1 | 620.6 | 615.8 | 613.5 | 613.5 | 612.3 | 609.9 | 611.1 |
| 30°   | 602.7 | 593.2 | 587.3 | 584.9 | 580.1 | 580.1 | 578.9 | 576.6 | 576.6 | 577.8 |
| 32.5° | 563.5 | 553.9 | 549.2 | 548.0 | 543.3 | 543.3 | 542.1 | 543.3 | 543.3 | 544.4 |
| 35°   | 520.7 | 512.4 | 511.2 | 507.7 | 506.5 | 506.5 | 506.5 | 508.8 | 511.2 | 507.7 |
| 37.5° | 480.3 | 474.3 | 470.8 | 469.6 | 470.8 | 470.8 | 472.0 | 475.5 | 474.3 | 473.1 |
| 40°   | 438.6 | 433.9 | 431.5 | 431.5 | 433.9 | 436.3 | 436.3 | 439.8 | 441.0 | 439.8 |
| 42.5° | 397.0 | 393.4 | 393.4 | 394.6 | 397.0 | 398.3 | 401.9 | 405.4 | 406.6 | 407.8 |
| 45°   | 357.9 | 357.9 | 357.9 | 359.0 | 360.2 | 362.6 | 367.3 | 370.9 | 372.1 | 373.3 |
| 47.5° | 319.8 | 318.6 | 322.2 | 323.3 | 326.9 | 328.1 | 331.6 | 336.4 | 337.6 | 338.8 |
| 50°   | 284.1 | 286.5 | 287.6 | 291.2 | 293.7 | 293.7 | 298.4 | 300.8 | 304.4 | 304.4 |
| 52.5° | 250.9 | 254.4 | 255.6 | 259.2 | 260.4 | 261.5 | 263.9 | 267.5 | 269.8 | 269.8 |
| 55°   | 221.1 | 222.3 | 224.7 | 225.8 | 229.4 | 230.6 | 233.0 | 234.1 | 237.7 | 236.5 |
| 56°   | 208.0 | 210.4 | 211.6 | 214.0 | 216.4 | 217.5 | 219.9 | 221.1 | 223.5 | 224.7 |
| 57°   | 196.2 | 197.4 | 200.9 | 202.1 | 204.5 | 204.5 | 205.7 | 209.2 | 209.2 | 210.4 |
| 58°   | 184.2 | 186.7 | 187.9 | 189.1 | 191.4 | 192.6 | 195.0 | 196.2 | 197.4 | 196.2 |
| 59°   | 173.5 | 174.7 | 175.9 | 175.9 | 178.3 | 178.3 | 181.8 | 184.2 | 185.4 | 185.4 |
| 60°   | 162.9 | 162.9 | 164.0 | 165.2 | 167.6 | 168.8 | 168.8 | 171.2 | 171.2 | 171.2 |
| 61°   | 152.2 | 152.2 | 153.4 | 154.6 | 155.7 | 155.7 | 158.1 | 158.1 | 159.3 | 160.5 |
| 62°   | 142.7 | 141.5 | 141.5 | 142.7 | 142.7 | 145.1 | 146.2 | 147.4 | 148.6 | 147.4 |
| 63°   | 131.9 | 130.7 | 130.7 | 130.7 | 130.7 | 133.2 | 133.2 | 134.4 | 136.8 | 135.6 |
| 64°   | 120.0 | 120.0 | 120.0 | 120.0 | 121.2 | 121.2 | 123.6 | 124.8 | 126.0 | 127.2 |
| 65°   | 111.7 | 109.4 | 108.2 | 108.2 | 109.4 | 110.5 | 111.7 | 112.9 | 114.1 | 114.1 |
| 66°   | 102.2 | 99.9  | 98.7  | 98.7  | 98.7  | 98.7  | 101.1 | 101.1 | 103.4 | 103.4 |
| 67°   | 91.6  | 89.2  | 88.0  | 86.8  | 86.8  | 86.8  | 90.4  | 89.2  | 89.2  | 89.2  |
| 67.5° | 88.0  | 84.4  | 83.3  | 82.1  | 80.9  | 83.3  | 82.1  | 83.3  | 83.3  | 82.1  |
| 68°   | 83.3  | 80.9  | 78.4  | 76.0  | 76.0  | 76.0  | 77.2  | 78.4  | 77.2  | 76.0  |
| 69°   | 73.7  | 72.5  | 68.9  | 66.5  | 65.4  | 66.5  | 65.4  | 66.5  | 65.4  | 66.5  |
| 70°   | 65.4  | 61.8  | 58.2  | 57.1  | 55.9  | 55.9  | 55.9  | 54.7  | 55.9  | 54.7  |
| 71°   | 57.1  | 53.5  | 49.9  | 47.6  | 46.4  | 46.4  | 45.2  | 46.4  | 45.2  | 46.4  |
| 72°   | 48.7  | 45.2  | 40.4  | 38.1  | 38.1  | 38.1  | 38.1  | 36.9  | 38.1  | 36.9  |
| 72.5° | 45.2  | 40.4  | 36.9  | 34.5  | 33.3  | 33.3  | 33.3  | 33.3  | 32.1  | 33.3  |
| 73°   | 41.6  | 36.9  | 32.1  | 31.0  | 31.0  | 31.0  | 29.8  | 28.6  | 29.8  | 29.8  |





TEST NUMBER: P593563  
CATALOG NUMBER: HCC8W15D010MW-HM80520850-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 14.2 | 10.7 | 9.5  | 9.5  | 9.5  | 9.5  | 9.5  | 9.5  | 8.3  | 8.3  |
| 80°   | 5.9  | 4.7  | 3.6  | 3.6  | 3.6  | 3.6  | 3.6  | 3.6  | 3.6  | 3.6  |
| 82.5° | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  |
| 85°   | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  |
| 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° | 77.2 | 77.2 | 75.0 | 71.3 | 65.4 | 59.4 | 54.7 | 49.9 | 44.0 | 38.1 | 35.7 |
| 75° | 71.3 | 70.1 | 67.7 | 64.2 | 59.4 | 53.5 | 48.7 | 42.8 | 38.1 | 32.1 | 29.8 |

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|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 74° | 34.5 | 28.6 | 26.1 | 23.7 | 23.7 | 23.7 | 22.5 | 22.5 | 22.5 | 23.7 |
| 75° | 27.4 | 22.5 | 20.2 | 17.8 | 19.0 | 17.8 | 19.0 | 17.8 | 17.8 | 17.8 |

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(END OF REPORT)