

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: P584039

Luminaire Tested: **HCC8W20D010SL-HM80520927-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584039  
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: HCC8W20D010SL-HM80520927-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

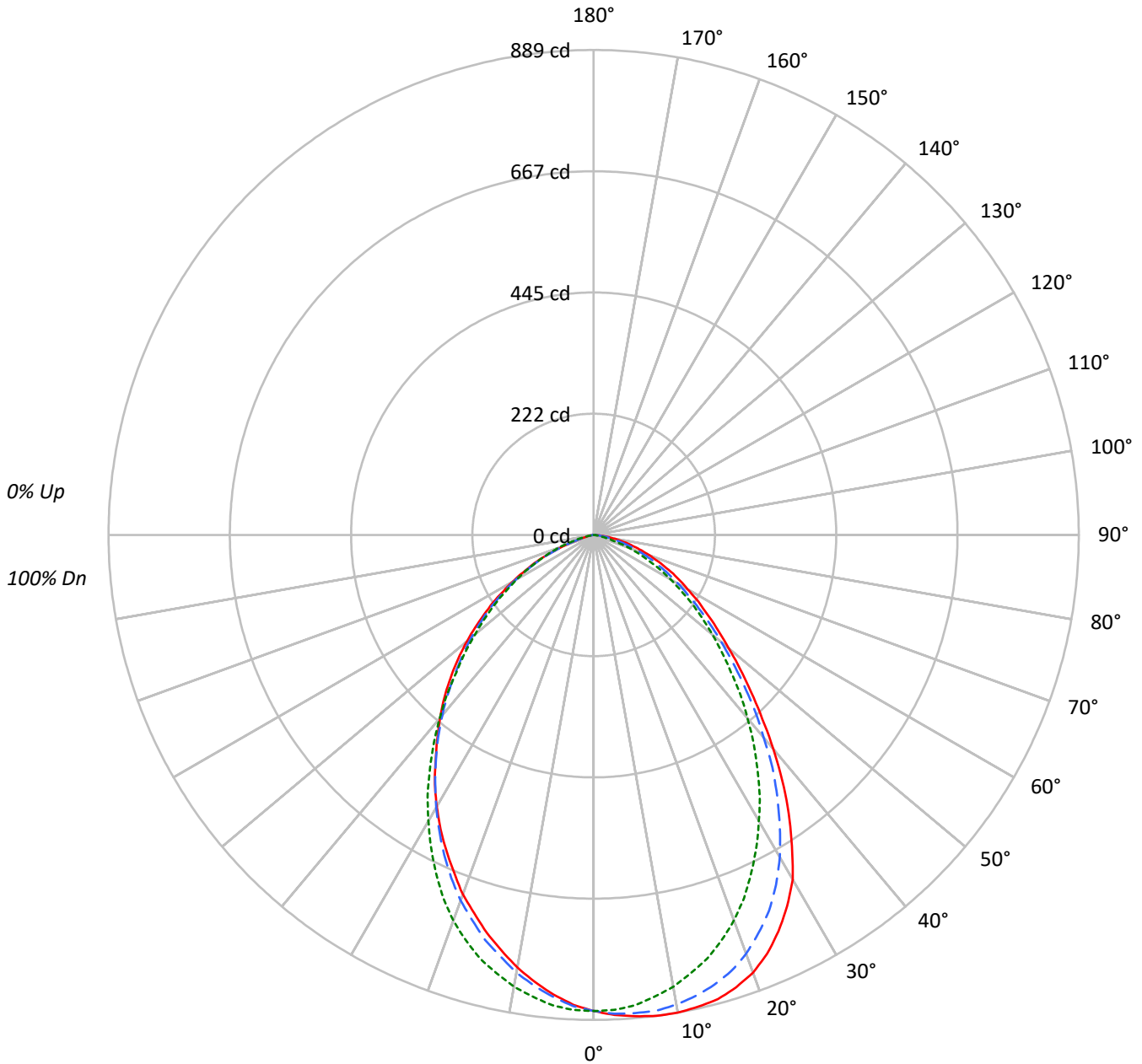
Lumens per Lamp: N/A  
Luminaire Lumens: 1635.9 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P584039  
CATALOG NUMBER: HCC8W20D010SL-HM80520927-81RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P584039

CATALOG NUMBER: HCC8W20D010SL-HM80520927-81RWWH

**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  |
| 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°  | 26911 | 26911 | 26911 |
| 5°  | 27416 | 26794 | 26172 |
| 10° | 27843 | 26327 | 25212 |
| 15° | 28122 | 25667 | 24119 |
| 20° | 28018 | 24677 | 23010 |
| 25° | 27274 | 23252 | 21724 |
| 30° | 25975 | 21556 | 20463 |
| 35° | 23460 | 19677 | 19010 |
| 40° | 20610 | 17655 | 17611 |
| 45° | 17788 | 15520 | 16192 |
| 50° | 15486 | 13615 | 14521 |
| 55° | 13731 | 11828 | 12650 |
| 60° | 12254 | 9985  | 10503 |
| 65° | 11040 | 8106  | 8282  |
| 70° | 9800  | 6077  | 4905  |
| 75° | 8447  | 3527  | 2109  |
| 80° | 6499  | 1261  | 622   |
| 85° | 4175  | 425   | 425   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.9   | 5.0       |
| 10°-20°   | 228.0  | 13.9      |
| 20°-30°   | 322.5  | 19.7      |
| 30°-40°   | 339.9  | 20.8      |
| 40°-50°   | 288.8  | 17.7      |
| 50°-60°   | 208.0  | 12.7      |
| 60°-70°   | 120.0  | 7.3       |
| 70°-80°   | 41.0   | 2.5       |
| 80°-90°   | 5.6    | 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°    | 632.5  | 38.7      |
| 0°-40°    | 972.4  | 59.4      |
| 0°-60°    | 1469.2 | 89.8      |
| 0°-90°    | 1635.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1635.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 873 | 873 | 873 | 873  | 873  |      |
| 5°  | 886 | 880 | 866 | 850  | 846  | 85   |
| 15° | 881 | 854 | 804 | 768  | 756  | 248  |
| 25° | 802 | 760 | 683 | 648  | 638  | 368  |
| 35° | 623 | 586 | 523 | 504  | 505  | 388  |
| 45° | 408 | 389 | 356 | 358  | 371  | 317  |
| 55° | 255 | 235 | 220 | 228  | 235  | 230  |
| 65° | 151 | 130 | 111 | 109  | 114  | 151  |
| 75° | 71  | 53  | 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°    | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 |
| 2.5°  | 880.9 | 882.1 | 880.9 | 880.9 | 879.8 | 878.6 | 877.4 | 876.2 | 873.9 | 871.5 | 871.5 |
| 5°    | 885.7 | 888.0 | 885.7 | 885.7 | 882.1 | 879.8 | 877.4 | 873.9 | 869.1 | 865.6 | 865.6 |
| 7.5°  | 889.2 | 889.2 | 889.2 | 885.7 | 883.3 | 879.8 | 873.9 | 867.9 | 862.0 | 856.1 | 853.8 |
| 10°   | 889.2 | 889.2 | 888.0 | 883.3 | 880.9 | 873.9 | 867.9 | 859.7 | 851.4 | 843.1 | 840.8 |
| 12.5° | 885.7 | 886.9 | 884.5 | 879.8 | 873.9 | 865.6 | 857.3 | 846.7 | 837.2 | 827.6 | 822.9 |
| 15°   | 880.9 | 879.8 | 877.4 | 871.5 | 864.4 | 853.8 | 845.5 | 833.5 | 820.5 | 808.7 | 804.0 |
| 17.5° | 869.1 | 869.1 | 865.6 | 859.7 | 850.2 | 838.4 | 825.3 | 812.3 | 798.1 | 785.1 | 779.2 |
| 20°   | 853.8 | 853.8 | 849.0 | 841.9 | 832.4 | 817.0 | 802.8 | 787.4 | 770.9 | 757.9 | 752.0 |
| 22.5° | 831.2 | 832.4 | 826.5 | 818.2 | 807.5 | 789.8 | 775.6 | 756.7 | 740.2 | 724.8 | 720.1 |
| 25°   | 801.6 | 804.0 | 798.1 | 789.8 | 775.6 | 760.3 | 742.5 | 724.8 | 705.9 | 690.5 | 683.4 |
| 27.5° | 767.4 | 768.5 | 762.6 | 754.4 | 740.2 | 723.6 | 705.9 | 687.0 | 669.2 | 652.7 | 645.6 |
| 30°   | 729.5 | 724.8 | 722.4 | 711.8 | 696.4 | 682.3 | 662.2 | 646.8 | 627.9 | 613.7 | 605.4 |
| 32.5° | 676.3 | 678.7 | 671.6 | 663.3 | 651.5 | 635.0 | 618.4 | 600.7 | 583.0 | 572.3 | 566.4 |
| 35°   | 623.2 | 625.5 | 622.0 | 613.7 | 600.7 | 586.5 | 570.0 | 557.0 | 541.6 | 528.6 | 522.7 |
| 37.5° | 567.6 | 567.6 | 565.2 | 560.5 | 551.0 | 538.0 | 521.5 | 508.5 | 495.4 | 484.7 | 481.2 |
| 40°   | 512.0 | 509.7 | 508.5 | 505.0 | 496.6 | 484.7 | 474.1 | 463.5 | 450.5 | 443.4 | 438.6 |
| 42.5° | 457.6 | 457.6 | 455.2 | 451.6 | 443.4 | 437.5 | 426.8 | 415.0 | 405.5 | 398.5 | 398.5 |
| 45°   | 407.9 | 409.1 | 405.5 | 403.2 | 398.5 | 389.0 | 379.5 | 371.3 | 363.0 | 358.3 | 355.9 |
| 47.5° | 364.2 | 364.2 | 360.6 | 358.3 | 353.5 | 345.3 | 337.0 | 329.9 | 324.0 | 320.4 | 319.3 |
| 50°   | 322.8 | 322.8 | 322.8 | 316.9 | 311.0 | 305.1 | 299.2 | 290.9 | 287.3 | 285.0 | 283.8 |
| 52.5° | 287.3 | 286.2 | 286.2 | 281.4 | 275.5 | 268.4 | 262.5 | 255.4 | 251.9 | 249.5 | 250.7 |
| 55°   | 255.4 | 255.4 | 254.2 | 248.3 | 242.4 | 235.3 | 229.4 | 223.5 | 221.2 | 218.8 | 220.0 |
| 56°   | 242.4 | 242.4 | 241.2 | 236.5 | 229.4 | 223.5 | 216.4 | 210.5 | 207.0 | 208.2 | 208.2 |
| 57°   | 233.0 | 230.6 | 230.6 | 224.7 | 218.8 | 210.5 | 204.6 | 198.7 | 196.3 | 195.1 | 195.1 |
| 58°   | 221.2 | 220.0 | 218.8 | 212.9 | 207.0 | 199.9 | 194.0 | 188.1 | 184.5 | 184.5 | 183.3 |
| 59°   | 209.3 | 209.3 | 207.0 | 202.2 | 196.3 | 189.2 | 183.3 | 177.4 | 173.9 | 172.7 | 172.7 |
| 60°   | 198.7 | 199.9 | 196.3 | 191.6 | 186.9 | 178.6 | 171.5 | 166.7 | 163.1 | 161.9 | 161.9 |
| 61°   | 189.2 | 189.2 | 186.9 | 181.0 | 175.1 | 169.1 | 161.9 | 156.0 | 153.7 | 151.3 | 151.3 |
| 62°   | 181.0 | 178.6 | 177.4 | 171.5 | 165.5 | 158.4 | 152.5 | 146.6 | 143.0 | 140.7 | 141.8 |
| 63°   | 170.3 | 169.1 | 166.7 | 161.9 | 156.0 | 148.9 | 141.8 | 137.1 | 133.6 | 130.0 | 131.2 |
| 64°   | 161.9 | 160.8 | 157.2 | 152.5 | 146.6 | 139.5 | 132.4 | 127.7 | 125.3 | 121.7 | 120.6 |
| 65°   | 151.3 | 150.1 | 148.9 | 143.0 | 137.1 | 130.0 | 124.1 | 119.4 | 115.8 | 113.5 | 111.1 |
| 66°   | 141.8 | 143.0 | 140.7 | 135.9 | 128.8 | 122.9 | 114.7 | 109.9 | 107.6 | 104.0 | 101.7 |
| 67°   | 133.6 | 133.6 | 131.2 | 126.5 | 119.4 | 113.5 | 107.6 | 101.7 | 98.1  | 94.6  | 93.4  |
| 67.5° | 128.8 | 128.8 | 126.5 | 120.6 | 115.8 | 108.7 | 102.8 | 98.1  | 93.4  | 91.0  | 88.6  |
| 68°   | 124.1 | 124.1 | 122.9 | 118.2 | 112.3 | 105.2 | 99.3  | 93.4  | 88.6  | 85.1  | 83.9  |
| 69°   | 115.8 | 117.0 | 114.7 | 109.9 | 104.0 | 96.9  | 91.0  | 86.3  | 81.6  | 78.0  | 75.6  |
| 70°   | 108.7 | 107.6 | 105.2 | 100.5 | 94.6  | 89.8  | 83.9  | 78.0  | 73.3  | 68.6  | 67.4  |
| 71°   | 99.3  | 99.3  | 96.9  | 93.4  | 87.5  | 81.6  | 75.6  | 70.9  | 66.2  | 60.3  | 59.1  |
| 72°   | 92.2  | 92.2  | 89.8  | 85.1  | 80.4  | 74.5  | 68.6  | 62.6  | 59.1  | 53.2  | 50.8  |
| 72.5° | 87.5  | 88.6  | 86.3  | 81.6  | 76.8  | 69.7  | 65.0  | 60.3  | 54.4  | 49.6  | 47.3  |
| 73°   | 85.1  | 83.9  | 82.7  | 78.0  | 72.1  | 67.4  | 61.5  | 56.7  | 50.8  | 46.1  | 43.7  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 53.2 | 53.2 | 52.0 | 47.3 | 42.6 | 37.8 | 33.1 | 28.4 | 23.6 | 18.9 | 16.5 |
| 80°   | 36.6 | 37.8 | 35.5 | 33.1 | 29.6 | 24.8 | 20.1 | 16.5 | 11.8 | 9.5  | 7.1  |
| 82.5° | 23.6 | 23.6 | 22.5 | 20.1 | 17.7 | 14.2 | 11.8 | 8.3  | 5.9  | 4.7  | 3.5  |
| 85°   | 11.8 | 13.0 | 11.8 | 10.6 | 8.3  | 7.1  | 5.9  | 3.5  | 2.4  | 1.2  | 1.2  |
| 87.5° | 4.7  | 4.7  | 4.7  | 3.5  | 3.5  | 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°    | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 | 872.7 |
| 2.5°  | 869.1 | 869.1 | 866.8 | 865.6 | 864.4 | 863.2 | 862.0 | 860.9 | 860.9 | 862.0 |
| 5°    | 862.0 | 859.7 | 854.9 | 853.8 | 850.2 | 849.0 | 846.7 | 845.5 | 846.7 | 845.5 |
| 7.5°  | 851.4 | 846.7 | 840.8 | 838.4 | 833.5 | 831.2 | 827.6 | 827.6 | 825.3 | 826.5 |
| 10°   | 837.2 | 830.0 | 822.9 | 818.2 | 814.6 | 811.1 | 808.7 | 806.4 | 805.2 | 805.2 |
| 12.5° | 819.4 | 811.1 | 804.0 | 796.9 | 791.0 | 788.6 | 783.9 | 783.9 | 781.5 | 780.4 |
| 15°   | 799.3 | 788.6 | 780.4 | 773.3 | 768.5 | 763.8 | 760.3 | 757.9 | 755.5 | 755.5 |
| 17.5° | 773.3 | 763.8 | 755.5 | 747.3 | 740.2 | 736.6 | 733.1 | 729.5 | 729.5 | 727.2 |
| 20°   | 744.9 | 734.3 | 727.2 | 718.9 | 713.0 | 707.1 | 702.3 | 702.3 | 700.0 | 701.2 |
| 22.5° | 713.0 | 700.0 | 692.9 | 687.0 | 681.1 | 676.3 | 671.6 | 671.6 | 670.4 | 669.2 |
| 25°   | 677.5 | 666.9 | 658.6 | 651.5 | 648.0 | 643.2 | 642.1 | 639.7 | 638.5 | 638.5 |
| 27.5° | 639.7 | 631.4 | 620.8 | 617.2 | 612.5 | 610.1 | 610.1 | 609.0 | 606.6 | 607.8 |
| 30°   | 599.5 | 590.1 | 584.1 | 581.8 | 577.1 | 577.1 | 575.9 | 573.5 | 573.5 | 574.7 |
| 32.5° | 560.5 | 551.0 | 546.3 | 545.1 | 540.4 | 540.4 | 539.2 | 540.4 | 540.4 | 541.6 |
| 35°   | 518.0 | 509.7 | 508.5 | 505.0 | 503.8 | 503.8 | 503.8 | 506.1 | 508.5 | 505.0 |
| 37.5° | 477.6 | 471.7 | 468.2 | 467.0 | 468.2 | 468.2 | 469.4 | 472.9 | 471.7 | 470.6 |
| 40°   | 436.3 | 431.5 | 429.2 | 429.2 | 431.5 | 433.9 | 433.9 | 437.5 | 438.6 | 437.5 |
| 42.5° | 394.9 | 391.4 | 391.4 | 392.5 | 394.9 | 396.1 | 399.6 | 403.2 | 404.4 | 405.5 |
| 45°   | 355.9 | 355.9 | 355.9 | 357.1 | 358.3 | 360.6 | 365.4 | 368.9 | 370.1 | 371.3 |
| 47.5° | 318.1 | 316.9 | 320.4 | 321.6 | 325.2 | 326.4 | 329.9 | 334.6 | 335.8 | 337.0 |
| 50°   | 282.6 | 285.0 | 286.2 | 289.7 | 292.1 | 292.1 | 296.8 | 299.2 | 302.7 | 302.7 |
| 52.5° | 249.5 | 253.1 | 254.2 | 257.8 | 259.0 | 260.2 | 262.5 | 266.1 | 268.4 | 268.4 |
| 55°   | 220.0 | 221.2 | 223.5 | 224.7 | 228.2 | 229.4 | 231.8 | 233.0 | 236.5 | 235.3 |
| 56°   | 207.0 | 209.3 | 210.5 | 212.9 | 215.2 | 216.4 | 218.8 | 220.0 | 222.3 | 223.5 |
| 57°   | 195.1 | 196.3 | 199.9 | 201.1 | 203.4 | 203.4 | 204.6 | 208.2 | 208.2 | 209.3 |
| 58°   | 183.3 | 185.7 | 186.9 | 188.1 | 190.4 | 191.6 | 194.0 | 195.1 | 196.3 | 195.1 |
| 59°   | 172.7 | 173.9 | 175.1 | 175.1 | 177.4 | 177.4 | 181.0 | 183.3 | 184.5 | 184.5 |
| 60°   | 161.9 | 161.9 | 163.1 | 164.3 | 166.7 | 168.0 | 168.0 | 170.3 | 170.3 | 170.3 |
| 61°   | 151.3 | 151.3 | 152.5 | 153.7 | 154.8 | 154.8 | 157.2 | 157.2 | 158.4 | 159.6 |
| 62°   | 141.8 | 140.7 | 140.7 | 141.8 | 141.8 | 144.2 | 145.4 | 146.6 | 147.8 | 146.6 |
| 63°   | 131.2 | 130.0 | 130.0 | 130.0 | 130.0 | 132.4 | 132.4 | 133.6 | 135.9 | 134.7 |
| 64°   | 119.4 | 119.4 | 119.4 | 119.4 | 120.6 | 120.6 | 122.9 | 124.1 | 125.3 | 126.5 |
| 65°   | 111.1 | 108.7 | 107.6 | 107.6 | 108.7 | 109.9 | 111.1 | 112.3 | 113.5 | 113.5 |
| 66°   | 101.7 | 99.3  | 98.1  | 98.1  | 98.1  | 98.1  | 100.5 | 100.5 | 102.8 | 102.8 |
| 67°   | 91.0  | 88.6  | 87.5  | 86.3  | 86.3  | 86.3  | 89.8  | 88.6  | 88.6  | 88.6  |
| 67.5° | 87.5  | 83.9  | 82.7  | 81.6  | 80.4  | 82.7  | 81.6  | 82.7  | 82.7  | 81.6  |
| 68°   | 82.7  | 80.4  | 78.0  | 75.6  | 75.6  | 75.6  | 76.8  | 78.0  | 76.8  | 75.6  |
| 69°   | 73.3  | 72.1  | 68.6  | 66.2  | 65.0  | 66.2  | 65.0  | 66.2  | 65.0  | 66.2  |
| 70°   | 65.0  | 61.5  | 57.9  | 56.7  | 55.6  | 55.6  | 55.6  | 54.4  | 55.6  | 54.4  |
| 71°   | 56.7  | 53.2  | 49.6  | 47.3  | 46.1  | 46.1  | 44.9  | 46.1  | 44.9  | 46.1  |
| 72°   | 48.5  | 44.9  | 40.2  | 37.8  | 37.8  | 37.8  | 37.8  | 36.6  | 37.8  | 36.6  |
| 72.5° | 44.9  | 40.2  | 36.6  | 34.3  | 33.1  | 33.1  | 33.1  | 33.1  | 31.9  | 33.1  |
| 73°   | 41.4  | 36.6  | 31.9  | 30.7  | 30.7  | 30.7  | 29.6  | 28.4  | 29.6  | 29.6  |





TEST NUMBER: P584039  
CATALOG NUMBER: HCC8W20D010SL-HM80520927-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 14.2 | 10.6 | 9.5  | 9.5  | 9.5  | 9.5  | 9.5  | 9.5  | 8.3  | 8.3  |
| 80°   | 5.9  | 4.7  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  |
| 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° | 76.8 | 76.8 | 74.5 | 70.9 | 65.0 | 59.1 | 54.4 | 49.6 | 43.7 | 37.8 | 35.5 |
| 75° | 70.9 | 69.7 | 67.4 | 63.8 | 59.1 | 53.2 | 48.5 | 42.6 | 37.8 | 31.9 | 29.6 |

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|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 74° | 34.3 | 28.4 | 26.0 | 23.6 | 23.6 | 23.6 | 22.5 | 22.5 | 22.5 | 23.6 |
| 75° | 27.2 | 22.5 | 20.1 | 17.7 | 18.9 | 17.7 | 18.9 | 17.7 | 17.7 | 17.7 |

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(END OF REPORT)