

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

Report Number: P579676

Luminaire Tested: **SMD14R209SWHE-EM - 3500K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2110240B001)
Test Lab:
Issue Date: 11/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD14R209SWHE-EM - 3500K
Description: SMD SELECTABLE CCT 3500K
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

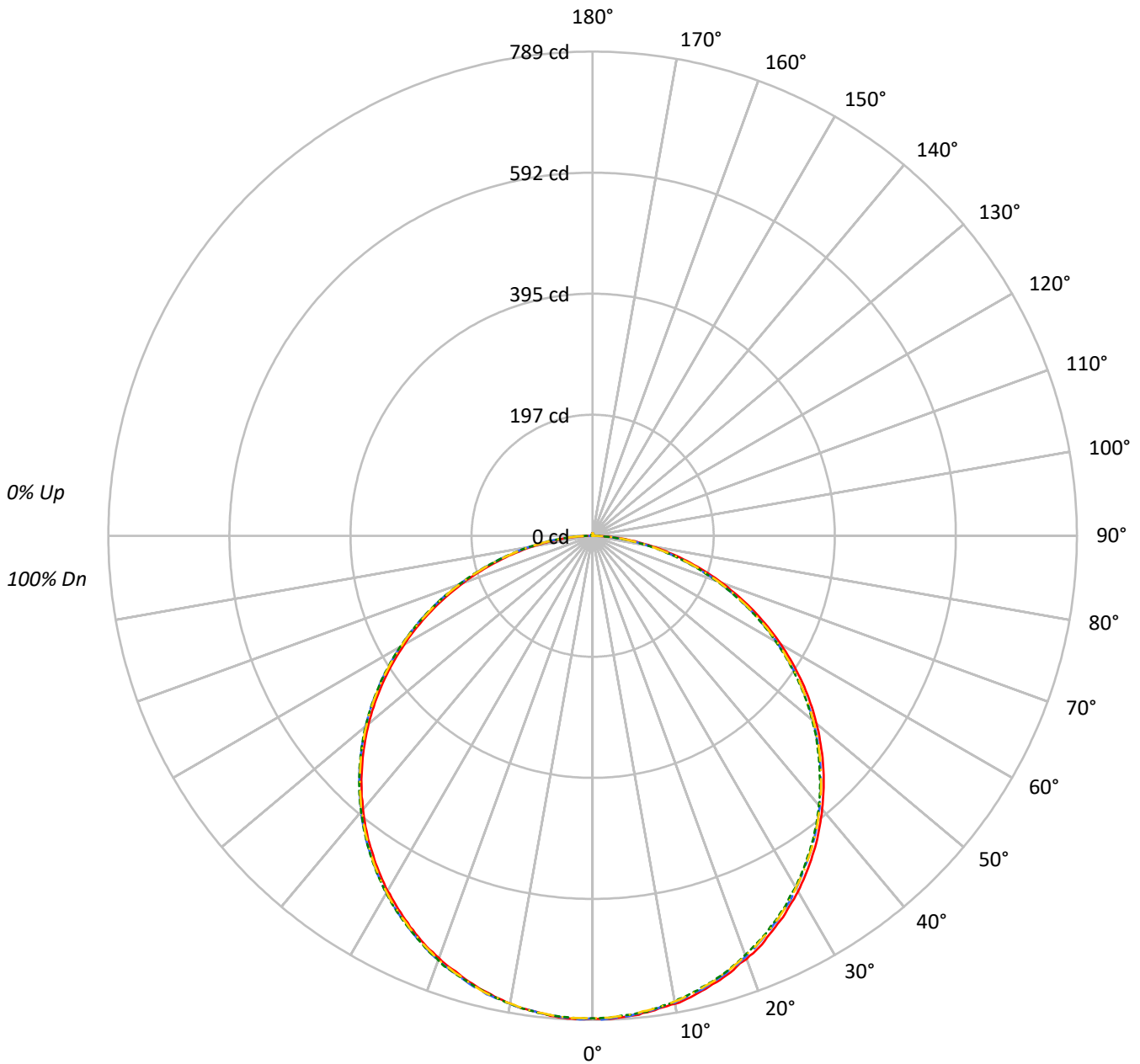
Lumens per Lamp: N/A
Luminaire Lumens: 2295.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

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 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | |
| 6 | 70 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 28 | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 10779 | 10779 | 10779 | 10779 |
| 5° | 10791 | 10761 | 10802 | 10787 |
| 10° | 10778 | 10725 | 10767 | 10776 |
| 15° | 10734 | 10674 | 10728 | 10751 |
| 20° | 10702 | 10606 | 10679 | 10734 |
| 25° | 10643 | 10532 | 10634 | 10685 |
| 30° | 10589 | 10464 | 10574 | 10646 |
| 35° | 10509 | 10361 | 10495 | 10579 |
| 40° | 10411 | 10260 | 10409 | 10496 |
| 45° | 10294 | 10119 | 10290 | 10410 |
| 50° | 10147 | 9942 | 10155 | 10298 |
| 55° | 9964 | 9737 | 9966 | 10138 |
| 60° | 9720 | 9448 | 9717 | 9922 |
| 65° | 9395 | 9083 | 9404 | 9651 |
| 70° | 8964 | 8587 | 8988 | 9272 |
| 75° | 8414 | 7932 | 8441 | 8801 |
| 80° | 7735 | 7040 | 7742 | 8248 |
| 85° | 6746 | 5677 | 6809 | 7642 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.5 | 3.2 |
| 10°-20° | 213.3 | 9.3 |
| 20°-30° | 323.8 | 14.1 |
| 30°-40° | 392.1 | 17.1 |
| 40°-50° | 409.0 | 17.8 |
| 50°-60° | 371.8 | 16.2 |
| 60°-70° | 286.0 | 12.5 |
| 70°-80° | 167.9 | 7.3 |
| 80°-90° | 48.7 | 2.1 |
| 90°-100° | 0.3 | 0.0 |
| 100°-110° | 0.5 | 0.0 |
| 110°-120° | 0.8 | 0.0 |
| 120°-130° | 1.1 | 0.0 |
| 130°-140° | 1.3 | 0.1 |
| 140°-150° | 1.4 | 0.1 |
| 150°-160° | 1.3 | 0.1 |
| 160°-170° | 1.0 | 0.0 |
| 170°-180° | 0.3 | 0.0 |
| 0°-30° | 611.6 | 26.6 |
| 0°-40° | 1003.7 | 43.7 |
| 0°-60° | 1784.5 | 77.8 |
| 0°-90° | 2287.1 | 99.7 |
| 90°-120° | 1.6 | 0.1 |
| 90°-150° | 5.3 | 0.2 |
| 90°-180° | 8.0 | 0.3 |
| 0°-180° | 2295.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 786 | 786 | 786 | 786 | 786 | |
| 5° | 784 | 782 | 785 | 784 | 784 | 75 |
| 15° | 756 | 752 | 756 | 758 | 756 | 214 |
| 25° | 704 | 696 | 703 | 707 | 704 | 325 |
| 35° | 628 | 619 | 627 | 632 | 628 | 393 |
| 45° | 531 | 522 | 531 | 537 | 531 | 410 |
| 55° | 417 | 408 | 417 | 424 | 417 | 372 |
| 65° | 290 | 280 | 290 | 298 | 290 | 286 |
| 75° | 159 | 150 | 159 | 166 | 159 | 168 |
| 85° | 43 | 36 | 43 | 49 | 43 | 46 |
| 90° | 1 | 0 | 2 | 4 | 1 | 3 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 115° | 1 | 1 | 1 | 1 | 1 | 1 |
| 125° | 1 | 1 | 1 | 1 | 1 | 1 |
| 135° | 2 | 2 | 2 | 2 | 2 | 1 |
| 145° | 2 | 2 | 2 | 3 | 2 | 1 |
| 155° | 3 | 3 | 3 | 3 | 3 | 1 |
| 165° | 3 | 3 | 3 | 4 | 3 | 1 |
| 175° | 3 | 4 | 4 | 4 | 3 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 |
| 0.5° | 787.1 | 786.0 | 787.3 | 786.8 | 786.6 | 786.2 | 786.1 | 787.1 | 787.3 | 787.0 | 786.8 |
| 1° | 787.1 | 787.0 | 788.7 | 786.6 | 786.1 | 786.9 | 785.8 | 786.2 | 788.1 | 787.2 | 787.8 |
| 1.5° | 787.3 | 786.5 | 788.0 | 784.6 | 785.9 | 786.4 | 785.9 | 786.1 | 788.1 | 786.7 | 788.2 |
| 2° | 787.9 | 786.4 | 787.1 | 785.3 | 785.8 | 786.2 | 785.9 | 786.2 | 788.1 | 786.9 | 787.5 |
| 2.5° | 787.7 | 787.1 | 786.3 | 784.8 | 784.8 | 785.5 | 784.8 | 785.3 | 787.5 | 785.9 | 787.3 |
| 3° | 786.6 | 785.3 | 786.0 | 784.1 | 784.2 | 785.1 | 784.3 | 784.6 | 787.9 | 786.6 | 786.6 |
| 3.5° | 785.8 | 785.6 | 785.0 | 784.9 | 783.3 | 784.1 | 784.2 | 784.3 | 787.1 | 784.8 | 786.6 |
| 4° | 785.4 | 785.1 | 785.0 | 783.9 | 782.9 | 784.2 | 783.3 | 784.1 | 786.7 | 785.5 | 785.8 |
| 4.5° | 784.8 | 784.0 | 784.6 | 781.5 | 783.2 | 783.5 | 782.7 | 783.0 | 785.5 | 784.9 | 784.6 |
| 5° | 784.4 | 783.7 | 782.7 | 781.4 | 782.2 | 781.9 | 781.6 | 782.7 | 785.2 | 784.8 | 784.1 |
| 5.5° | 784.2 | 782.5 | 782.1 | 780.6 | 781.3 | 782.5 | 781.0 | 782.0 | 783.7 | 783.4 | 783.7 |
| 6° | 782.0 | 782.3 | 781.3 | 780.7 | 781.0 | 781.2 | 779.3 | 781.5 | 782.6 | 783.0 | 783.1 |
| 6.5° | 781.8 | 780.9 | 780.2 | 779.1 | 780.6 | 780.1 | 778.9 | 780.8 | 781.5 | 781.3 | 782.4 |
| 7° | 780.9 | 780.3 | 779.3 | 778.2 | 777.8 | 778.7 | 778.1 | 779.8 | 780.9 | 781.4 | 780.7 |
| 7.5° | 779.7 | 779.4 | 778.0 | 777.2 | 777.2 | 777.8 | 776.6 | 778.1 | 780.2 | 779.8 | 779.7 |
| 8° | 777.5 | 777.7 | 776.6 | 776.0 | 776.4 | 776.4 | 775.8 | 777.6 | 779.0 | 778.4 | 779.5 |
| 8.5° | 776.8 | 776.4 | 775.1 | 775.0 | 774.4 | 776.0 | 774.8 | 776.6 | 778.4 | 777.2 | 778.0 |
| 9° | 776.2 | 774.5 | 773.3 | 773.3 | 773.3 | 773.9 | 773.0 | 774.3 | 777.4 | 776.0 | 777.3 |
| 9.5° | 774.6 | 773.4 | 772.1 | 772.2 | 772.1 | 772.2 | 771.9 | 772.6 | 775.8 | 774.7 | 776.2 |
| 10° | 774.5 | 772.1 | 772.4 | 771.1 | 770.7 | 770.1 | 770.8 | 771.3 | 773.7 | 773.6 | 774.3 |
| 10.5° | 773.8 | 770.7 | 769.9 | 768.2 | 768.2 | 769.3 | 769.2 | 769.9 | 772.7 | 772.5 | 773.1 |
| 11° | 772.0 | 769.7 | 768.7 | 767.2 | 767.0 | 767.6 | 767.9 | 768.3 | 770.7 | 770.7 | 771.8 |
| 11.5° | 770.1 | 768.0 | 766.9 | 765.8 | 765.2 | 765.7 | 765.9 | 765.9 | 769.2 | 769.0 | 770.8 |
| 12° | 768.7 | 766.4 | 764.8 | 765.0 | 763.5 | 763.6 | 764.0 | 764.9 | 767.8 | 768.0 | 769.1 |
| 12.5° | 766.8 | 764.0 | 763.2 | 762.9 | 761.5 | 762.6 | 762.5 | 763.2 | 765.4 | 766.5 | 767.7 |
| 13° | 764.5 | 762.4 | 761.5 | 759.1 | 760.0 | 761.1 | 760.4 | 761.5 | 763.6 | 765.8 | 766.7 |
| 13.5° | 762.7 | 761.1 | 760.8 | 757.4 | 757.4 | 758.5 | 758.7 | 760.4 | 762.0 | 763.8 | 764.6 |
| 14° | 761.0 | 759.6 | 758.5 | 755.6 | 755.8 | 757.2 | 756.5 | 757.8 | 760.4 | 760.2 | 762.4 |
| 14.5° | 758.9 | 757.4 | 756.4 | 753.9 | 753.8 | 755.5 | 754.8 | 755.5 | 758.3 | 759.2 | 760.8 |
| 15° | 756.5 | 755.2 | 754.6 | 752.4 | 752.3 | 753.5 | 753.2 | 753.5 | 756.1 | 756.8 | 759.0 |
| 15.5° | 754.9 | 753.5 | 751.7 | 750.2 | 749.7 | 751.1 | 750.9 | 751.5 | 754.1 | 754.8 | 756.8 |
| 16° | 753.0 | 751.0 | 749.2 | 748.2 | 747.5 | 748.4 | 748.0 | 749.3 | 751.8 | 752.7 | 753.9 |
| 16.5° | 750.3 | 748.5 | 747.5 | 745.2 | 745.4 | 746.8 | 745.5 | 746.9 | 749.4 | 750.3 | 751.8 |
| 17° | 748.5 | 746.7 | 745.2 | 742.8 | 743.3 | 744.4 | 743.5 | 744.8 | 746.7 | 747.9 | 749.9 |
| 17.5° | 746.2 | 744.1 | 741.6 | 741.1 | 740.9 | 741.5 | 741.7 | 742.8 | 744.0 | 746.0 | 747.4 |
| 18° | 743.9 | 741.2 | 739.8 | 738.3 | 737.8 | 738.8 | 738.9 | 740.1 | 742.4 | 744.0 | 745.5 |
| 18.5° | 740.2 | 738.3 | 737.8 | 735.6 | 735.0 | 736.5 | 735.9 | 736.7 | 740.1 | 741.3 | 743.0 |
| 19° | 737.1 | 736.2 | 735.1 | 733.0 | 732.7 | 733.6 | 733.7 | 734.2 | 738.0 | 738.9 | 741.4 |
| 19.5° | 735.6 | 733.5 | 732.3 | 729.6 | 729.8 | 731.3 | 730.8 | 732.9 | 735.4 | 736.7 | 738.8 |
| 20° | 733.8 | 730.8 | 729.8 | 726.9 | 727.2 | 728.6 | 728.1 | 730.5 | 732.2 | 733.7 | 736.4 |
| 20.5° | 730.9 | 728.1 | 726.5 | 724.6 | 724.3 | 725.2 | 725.8 | 728.1 | 729.8 | 730.9 | 733.7 |
| 21° | 729.1 | 726.1 | 724.3 | 722.3 | 721.3 | 722.4 | 723.1 | 724.7 | 726.8 | 728.7 | 730.6 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 721.1 | 716.8 | 715.4 | 712.8 | 712.6 | 714.1 | 714.4 | 715.7 | 718.9 | 719.8 | 722.2 |
| 23° | 717.3 | 713.3 | 712.0 | 709.7 | 709.9 | 711.1 | 711.2 | 713.0 | 715.7 | 716.8 | 718.9 |
| 23.5° | 713.3 | 710.5 | 709.0 | 705.8 | 707.3 | 707.6 | 708.5 | 709.9 | 712.2 | 713.9 | 716.0 |
| 24° | 710.1 | 707.4 | 705.9 | 702.9 | 703.6 | 703.8 | 705.2 | 706.6 | 709.7 | 710.2 | 712.8 |
| 24.5° | 707.2 | 704.1 | 702.1 | 700.0 | 699.7 | 700.5 | 701.9 | 703.4 | 705.7 | 706.9 | 709.7 |
| 25° | 703.8 | 701.0 | 698.4 | 696.7 | 696.5 | 697.4 | 698.5 | 700.0 | 703.2 | 704.3 | 706.6 |
| 25.5° | 700.6 | 697.9 | 696.2 | 693.5 | 693.7 | 694.3 | 695.3 | 697.2 | 698.9 | 701.2 | 703.1 |
| 26° | 697.4 | 695.1 | 692.7 | 690.0 | 690.0 | 691.2 | 692.1 | 694.3 | 696.2 | 697.8 | 699.9 |
| 26.5° | 694.7 | 691.5 | 688.7 | 687.1 | 686.4 | 687.4 | 688.6 | 690.5 | 692.5 | 694.5 | 696.8 |
| 27° | 691.1 | 688.1 | 685.4 | 683.7 | 683.0 | 684.4 | 685.3 | 687.5 | 689.0 | 691.0 | 693.5 |
| 27.5° | 687.1 | 684.7 | 682.0 | 679.8 | 679.9 | 681.1 | 681.6 | 683.7 | 686.1 | 688.3 | 690.5 |
| 28° | 683.2 | 681.2 | 678.9 | 676.3 | 675.7 | 677.4 | 678.1 | 680.4 | 682.0 | 684.1 | 686.9 |
| 28.5° | 679.7 | 677.5 | 675.6 | 672.2 | 671.4 | 673.5 | 674.4 | 676.5 | 678.3 | 681.1 | 683.2 |
| 29° | 676.5 | 673.6 | 671.3 | 668.6 | 667.4 | 669.6 | 670.7 | 673.2 | 675.0 | 677.6 | 679.4 |
| 29.5° | 672.7 | 669.5 | 667.3 | 665.2 | 664.5 | 665.9 | 666.9 | 668.8 | 670.9 | 673.2 | 676.0 |
| 30° | 669.1 | 665.5 | 663.4 | 661.2 | 661.2 | 662.4 | 662.8 | 665.0 | 668.2 | 669.6 | 672.2 |
| 30.5° | 665.3 | 661.7 | 659.4 | 657.2 | 656.9 | 658.4 | 659.0 | 661.5 | 664.3 | 665.9 | 668.3 |
| 31° | 661.4 | 658.0 | 655.0 | 653.0 | 652.9 | 654.4 | 654.7 | 658.0 | 660.1 | 662.0 | 665.1 |
| 31.5° | 657.6 | 654.1 | 650.8 | 649.1 | 648.7 | 650.4 | 651.0 | 653.8 | 656.4 | 658.0 | 661.0 |
| 32° | 653.3 | 650.1 | 646.6 | 645.3 | 644.7 | 646.7 | 647.4 | 649.9 | 652.5 | 653.8 | 656.8 |
| 32.5° | 649.3 | 645.8 | 642.4 | 641.1 | 641.1 | 643.0 | 643.5 | 646.1 | 648.5 | 649.8 | 652.7 |
| 33° | 645.2 | 641.5 | 638.4 | 637.0 | 636.7 | 638.7 | 639.0 | 641.7 | 644.1 | 646.1 | 648.7 |
| 33.5° | 641.1 | 637.0 | 634.2 | 633.2 | 632.1 | 633.9 | 634.4 | 637.3 | 640.2 | 642.5 | 644.4 |
| 34° | 636.8 | 632.9 | 630.4 | 629.1 | 627.9 | 629.7 | 630.3 | 633.3 | 635.8 | 637.7 | 640.9 |
| 34.5° | 632.3 | 628.7 | 626.2 | 624.5 | 624.4 | 625.7 | 626.3 | 629.1 | 631.2 | 632.8 | 636.3 |
| 35° | 628.1 | 624.4 | 621.9 | 619.9 | 619.3 | 621.1 | 622.2 | 625.0 | 627.3 | 628.9 | 631.9 |
| 35.5° | 624.2 | 619.8 | 617.8 | 615.4 | 615.4 | 616.3 | 618.1 | 620.5 | 623.5 | 625.1 | 627.6 |
| 36° | 619.6 | 615.5 | 613.1 | 610.9 | 611.2 | 611.8 | 613.3 | 615.5 | 619.0 | 621.2 | 623.4 |
| 36.5° | 615.2 | 610.9 | 608.7 | 606.2 | 606.4 | 607.6 | 608.8 | 611.0 | 614.9 | 616.4 | 619.3 |
| 37° | 610.5 | 606.6 | 603.6 | 601.5 | 601.8 | 602.8 | 604.2 | 606.4 | 609.9 | 611.9 | 614.6 |
| 37.5° | 605.2 | 601.8 | 598.8 | 597.1 | 597.5 | 598.5 | 599.5 | 601.8 | 605.3 | 607.8 | 610.3 |
| 38° | 600.5 | 596.8 | 594.1 | 592.4 | 592.7 | 593.6 | 595.0 | 597.3 | 601.0 | 602.9 | 605.5 |
| 38.5° | 596.1 | 592.4 | 589.4 | 587.6 | 587.9 | 589.2 | 590.2 | 592.6 | 596.3 | 598.3 | 600.8 |
| 39° | 591.5 | 587.8 | 584.7 | 582.6 | 583.2 | 584.7 | 585.2 | 588.1 | 591.6 | 593.6 | 596.5 |
| 39.5° | 586.7 | 582.9 | 580.2 | 577.6 | 578.6 | 579.6 | 580.7 | 583.2 | 586.7 | 588.5 | 592.0 |
| 40° | 581.9 | 578.1 | 575.2 | 572.6 | 573.5 | 574.4 | 576.0 | 578.7 | 581.8 | 584.1 | 587.3 |
| 40.5° | 576.9 | 573.3 | 570.1 | 567.9 | 568.7 | 570.1 | 570.9 | 573.4 | 576.7 | 579.2 | 582.4 |
| 41° | 571.8 | 568.3 | 565.1 | 563.4 | 563.7 | 564.7 | 566.1 | 568.7 | 572.0 | 574.5 | 577.3 |
| 41.5° | 566.8 | 563.3 | 560.2 | 558.6 | 558.8 | 559.7 | 561.1 | 563.9 | 567.7 | 569.9 | 572.3 |
| 42° | 561.8 | 558.2 | 555.3 | 553.2 | 553.4 | 554.7 | 556.3 | 558.7 | 562.6 | 564.1 | 567.3 |
| 42.5° | 557.1 | 552.9 | 550.4 | 547.9 | 548.6 | 549.6 | 551.1 | 553.6 | 557.4 | 559.6 | 562.5 |
| 43° | 552.0 | 547.6 | 545.4 | 542.9 | 543.2 | 544.5 | 545.7 | 548.4 | 552.2 | 554.8 | 557.8 |
| 43.5° | 546.7 | 542.2 | 540.1 | 537.3 | 537.5 | 539.3 | 540.8 | 543.1 | 547.1 | 549.8 | 552.7 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 531.1 | 527.0 | 524.1 | 521.3 | 522.1 | 523.4 | 524.9 | 527.7 | 530.9 | 533.7 | 537.3 |
| 45.5° | 526.0 | 521.5 | 519.1 | 516.0 | 516.6 | 518.3 | 519.6 | 522.5 | 525.9 | 528.2 | 531.6 |
| 46° | 520.7 | 516.3 | 513.7 | 510.8 | 511.1 | 512.6 | 514.0 | 517.1 | 520.5 | 523.0 | 526.4 |
| 46.5° | 515.1 | 511.1 | 508.1 | 505.3 | 505.9 | 507.2 | 508.7 | 511.6 | 515.0 | 517.9 | 521.1 |
| 47° | 509.6 | 505.9 | 502.5 | 499.6 | 500.3 | 501.8 | 503.1 | 506.0 | 509.6 | 511.9 | 515.5 |
| 47.5° | 504.2 | 500.8 | 496.7 | 493.9 | 495.2 | 496.2 | 497.8 | 500.5 | 503.8 | 506.7 | 510.2 |
| 48° | 498.6 | 495.4 | 491.3 | 488.4 | 490.0 | 490.9 | 492.1 | 494.9 | 498.5 | 501.9 | 504.8 |
| 48.5° | 493.0 | 489.7 | 486.0 | 482.9 | 484.4 | 485.1 | 486.7 | 489.6 | 493.0 | 496.2 | 499.4 |
| 49° | 487.5 | 484.3 | 480.3 | 477.3 | 478.1 | 479.3 | 480.8 | 483.9 | 487.5 | 490.4 | 493.8 |
| 49.5° | 481.9 | 478.6 | 474.5 | 471.5 | 472.3 | 473.7 | 475.4 | 478.2 | 481.8 | 485.0 | 488.6 |
| 50° | 475.9 | 472.9 | 468.7 | 465.5 | 466.3 | 468.0 | 469.5 | 472.5 | 476.3 | 479.4 | 482.5 |
| 50.5° | 470.1 | 467.1 | 462.9 | 459.8 | 460.9 | 462.1 | 463.6 | 466.6 | 470.5 | 473.6 | 477.2 |
| 51° | 464.5 | 461.1 | 457.1 | 453.9 | 455.1 | 456.4 | 457.7 | 460.8 | 464.5 | 467.7 | 471.3 |
| 51.5° | 458.9 | 455.0 | 451.2 | 447.9 | 449.7 | 450.5 | 452.0 | 455.2 | 458.8 | 462.2 | 465.5 |
| 52° | 453.2 | 448.7 | 445.1 | 442.2 | 443.9 | 444.7 | 446.3 | 449.2 | 452.7 | 456.2 | 459.6 |
| 52.5° | 446.9 | 442.9 | 439.2 | 436.0 | 437.9 | 438.5 | 440.4 | 443.2 | 447.1 | 450.2 | 453.8 |
| 53° | 441.1 | 437.0 | 433.2 | 430.1 | 431.7 | 432.6 | 434.2 | 437.0 | 441.0 | 444.2 | 448.1 |
| 53.5° | 435.3 | 431.0 | 427.0 | 424.1 | 425.5 | 426.5 | 428.1 | 431.1 | 435.0 | 438.0 | 442.1 |
| 54° | 429.2 | 424.9 | 421.0 | 417.8 | 419.6 | 420.6 | 421.8 | 424.9 | 429.0 | 431.9 | 436.0 |
| 54.5° | 423.4 | 419.0 | 415.3 | 411.6 | 413.5 | 414.8 | 416.3 | 418.9 | 423.0 | 426.5 | 429.7 |
| 55° | 417.0 | 412.9 | 408.9 | 405.4 | 407.5 | 408.5 | 410.1 | 413.0 | 417.1 | 420.4 | 424.0 |
| 55.5° | 410.9 | 406.6 | 402.6 | 399.1 | 401.1 | 402.1 | 403.8 | 406.8 | 411.0 | 414.5 | 418.2 |
| 56° | 404.5 | 400.3 | 396.2 | 392.9 | 395.1 | 395.9 | 397.7 | 400.5 | 405.0 | 408.2 | 411.8 |
| 56.5° | 398.5 | 394.1 | 390.0 | 387.1 | 388.5 | 389.9 | 391.5 | 394.6 | 398.5 | 402.0 | 405.3 |
| 57° | 392.4 | 387.7 | 383.6 | 381.1 | 382.6 | 383.5 | 385.1 | 388.5 | 392.2 | 395.5 | 399.3 |
| 57.5° | 385.8 | 381.6 | 377.5 | 375.0 | 376.3 | 377.3 | 378.9 | 382.1 | 385.7 | 390.1 | 393.2 |
| 58° | 379.5 | 375.2 | 371.2 | 368.7 | 370.0 | 371.1 | 372.6 | 375.9 | 379.4 | 383.5 | 386.9 |
| 58.5° | 373.3 | 368.8 | 364.8 | 362.1 | 363.6 | 364.7 | 366.3 | 369.5 | 373.4 | 377.0 | 380.7 |
| 59° | 367.0 | 362.2 | 358.4 | 355.6 | 357.2 | 358.3 | 360.1 | 363.5 | 367.0 | 370.6 | 374.4 |
| 59.5° | 360.7 | 355.9 | 352.2 | 349.1 | 351.0 | 352.1 | 353.9 | 357.1 | 360.6 | 364.3 | 368.1 |
| 60° | 354.6 | 349.5 | 345.9 | 342.3 | 344.7 | 346.0 | 347.7 | 351.0 | 354.5 | 358.1 | 361.7 |
| 60.5° | 348.0 | 342.9 | 339.7 | 336.0 | 338.3 | 339.6 | 341.4 | 344.4 | 348.1 | 351.8 | 355.7 |
| 61° | 341.4 | 336.4 | 333.3 | 329.5 | 331.9 | 333.5 | 335.0 | 338.0 | 341.8 | 345.7 | 349.4 |
| 61.5° | 335.1 | 330.3 | 326.9 | 323.5 | 325.4 | 327.0 | 328.5 | 331.7 | 335.7 | 339.3 | 343.0 |
| 62° | 328.4 | 324.0 | 320.2 | 317.1 | 319.2 | 320.5 | 322.3 | 325.5 | 329.3 | 332.5 | 336.4 |
| 62.5° | 322.0 | 317.6 | 313.7 | 310.5 | 312.4 | 314.1 | 315.7 | 318.8 | 322.7 | 326.2 | 330.3 |
| 63° | 315.6 | 311.0 | 307.4 | 303.9 | 306.0 | 307.5 | 309.1 | 312.5 | 316.2 | 320.2 | 323.8 |
| 63.5° | 309.0 | 304.4 | 300.5 | 297.3 | 299.5 | 300.8 | 302.6 | 306.1 | 309.6 | 313.3 | 317.5 |
| 64° | 302.6 | 298.0 | 294.0 | 290.7 | 293.1 | 294.4 | 296.0 | 299.4 | 303.1 | 307.0 | 310.6 |
| 64.5° | 296.0 | 291.4 | 287.6 | 284.5 | 286.3 | 287.9 | 289.4 | 292.9 | 296.7 | 300.1 | 304.3 |
| 65° | 289.7 | 285.1 | 281.0 | 277.9 | 280.1 | 281.3 | 282.9 | 286.5 | 290.0 | 293.9 | 297.5 |
| 65.5° | 283.1 | 278.1 | 274.2 | 271.1 | 273.5 | 274.7 | 276.5 | 279.9 | 283.7 | 287.4 | 290.9 |
| 66° | 276.4 | 271.4 | 267.6 | 264.5 | 266.9 | 268.0 | 269.8 | 273.3 | 277.0 | 280.8 | 284.4 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 256.5 | 251.9 | 247.7 | 244.3 | 247.3 | 248.5 | 250.2 | 253.6 | 257.1 | 260.8 | 264.6 |
| 68° | 249.7 | 245.1 | 241.0 | 237.9 | 240.6 | 242.0 | 243.6 | 246.8 | 250.6 | 254.1 | 258.0 |
| 68.5° | 243.0 | 238.7 | 234.4 | 231.2 | 233.8 | 235.4 | 237.1 | 240.3 | 244.2 | 247.9 | 251.3 |
| 69° | 236.6 | 231.9 | 227.9 | 224.7 | 227.2 | 228.6 | 230.4 | 233.8 | 237.4 | 241.0 | 244.6 |
| 69.5° | 230.2 | 225.5 | 221.1 | 218.1 | 221.1 | 222.0 | 224.0 | 227.0 | 230.8 | 234.4 | 238.0 |
| 70° | 223.7 | 219.1 | 214.9 | 211.5 | 214.3 | 215.7 | 217.4 | 220.6 | 224.3 | 227.7 | 231.5 |
| 70.5° | 217.4 | 212.4 | 208.3 | 204.8 | 207.9 | 209.0 | 210.9 | 214.3 | 217.9 | 221.4 | 224.8 |
| 71° | 210.9 | 205.8 | 201.7 | 198.3 | 201.4 | 202.6 | 204.6 | 208.0 | 211.7 | 214.8 | 218.2 |
| 71.5° | 204.4 | 199.1 | 194.9 | 191.8 | 194.9 | 195.9 | 197.7 | 201.2 | 204.8 | 208.1 | 211.5 |
| 72° | 197.9 | 192.9 | 188.7 | 185.5 | 188.2 | 189.3 | 191.3 | 194.7 | 198.0 | 201.6 | 205.1 |
| 72.5° | 191.1 | 186.5 | 182.0 | 179.0 | 181.6 | 182.9 | 184.9 | 188.2 | 191.4 | 195.1 | 198.6 |
| 73° | 184.7 | 179.7 | 175.6 | 172.6 | 175.1 | 176.4 | 178.2 | 181.7 | 185.1 | 188.9 | 192.1 |
| 73.5° | 178.2 | 173.4 | 169.2 | 166.3 | 168.8 | 169.9 | 171.8 | 175.2 | 178.5 | 182.1 | 185.5 |
| 74° | 171.7 | 167.0 | 162.7 | 159.7 | 162.3 | 163.7 | 165.2 | 168.8 | 172.2 | 175.6 | 179.0 |
| 74.5° | 165.2 | 160.5 | 156.3 | 153.4 | 156.3 | 157.2 | 158.9 | 162.3 | 165.8 | 169.1 | 172.3 |
| 75° | 158.9 | 154.3 | 150.1 | 147.2 | 149.8 | 150.6 | 152.8 | 156.1 | 159.4 | 162.7 | 166.0 |
| 75.5° | 152.6 | 147.9 | 143.8 | 140.9 | 143.4 | 144.6 | 146.3 | 149.6 | 153.1 | 156.4 | 159.6 |
| 76° | 146.3 | 141.6 | 137.5 | 134.6 | 137.2 | 138.3 | 140.3 | 143.5 | 146.7 | 150.0 | 153.4 |
| 76.5° | 140.1 | 135.4 | 131.1 | 128.4 | 131.0 | 132.0 | 134.0 | 137.0 | 140.4 | 143.6 | 147.0 |
| 77° | 133.7 | 129.4 | 125.1 | 122.4 | 124.7 | 126.1 | 127.8 | 130.9 | 134.3 | 137.5 | 140.9 |
| 77.5° | 127.7 | 123.2 | 119.1 | 116.3 | 118.8 | 120.0 | 121.9 | 124.8 | 128.1 | 131.1 | 134.5 |
| 78° | 121.7 | 117.2 | 113.1 | 110.3 | 113.0 | 113.9 | 115.8 | 118.7 | 122.0 | 125.1 | 128.5 |
| 78.5° | 115.5 | 111.2 | 107.1 | 104.3 | 107.1 | 107.9 | 109.7 | 112.9 | 115.8 | 119.1 | 122.2 |
| 79° | 109.7 | 105.4 | 101.4 | 98.5 | 100.9 | 102.1 | 103.6 | 106.9 | 109.8 | 113.1 | 116.3 |
| 79.5° | 103.8 | 99.5 | 95.7 | 92.8 | 95.2 | 96.2 | 97.7 | 100.9 | 104.0 | 106.9 | 110.0 |
| 80° | 98.0 | 93.5 | 89.8 | 87.2 | 89.2 | 90.4 | 92.0 | 95.1 | 98.1 | 101.1 | 104.1 |
| 80.5° | 92.2 | 88.0 | 84.2 | 81.5 | 83.8 | 84.5 | 86.6 | 89.2 | 92.2 | 95.2 | 98.3 |
| 81° | 86.6 | 82.3 | 78.5 | 75.8 | 78.1 | 79.1 | 80.7 | 83.8 | 86.6 | 89.4 | 92.5 |
| 81.5° | 80.8 | 76.7 | 73.0 | 70.3 | 72.6 | 73.8 | 75.3 | 77.9 | 81.0 | 83.8 | 86.7 |
| 82° | 75.2 | 71.1 | 67.5 | 64.8 | 66.9 | 67.9 | 69.5 | 72.3 | 75.1 | 78.1 | 81.0 |
| 82.5° | 69.6 | 65.6 | 62.0 | 59.4 | 61.6 | 62.3 | 64.2 | 66.7 | 69.5 | 72.6 | 75.4 |
| 83° | 63.9 | 60.2 | 56.6 | 54.1 | 56.4 | 57.2 | 58.7 | 61.2 | 64.2 | 67.2 | 70.1 |
| 83.5° | 58.4 | 54.8 | 51.2 | 48.8 | 51.3 | 51.6 | 53.7 | 56.1 | 58.8 | 61.8 | 64.7 |
| 84° | 53.3 | 49.6 | 46.0 | 43.7 | 45.9 | 46.8 | 48.3 | 50.9 | 53.6 | 56.4 | 59.2 |
| 84.5° | 48.1 | 44.5 | 40.9 | 38.8 | 40.9 | 41.8 | 43.2 | 45.7 | 48.4 | 51.4 | 54.2 |
| 85° | 42.9 | 39.4 | 36.0 | 33.7 | 36.1 | 36.6 | 38.2 | 40.7 | 43.3 | 46.1 | 48.8 |
| 85.5° | 37.8 | 34.4 | 31.2 | 29.0 | 31.1 | 31.9 | 33.3 | 35.6 | 38.2 | 41.1 | 43.7 |
| 86° | 32.9 | 29.5 | 26.5 | 24.2 | 26.4 | 26.9 | 28.4 | 30.7 | 33.3 | 36.2 | 38.8 |
| 86.5° | 28.1 | 24.9 | 22.1 | 19.9 | 21.7 | 22.3 | 23.7 | 26.0 | 28.6 | 31.3 | 34.0 |
| 87° | 23.5 | 20.6 | 17.7 | 15.5 | 17.3 | 18.0 | 19.4 | 21.5 | 23.8 | 26.4 | 29.0 |
| 87.5° | 19.1 | 16.2 | 13.7 | 11.4 | 13.1 | 13.8 | 15.1 | 17.1 | 19.4 | 22.0 | 24.3 |
| 88° | 14.9 | 12.2 | 9.7 | 8.1 | 9.1 | 9.8 | 11.0 | 12.8 | 15.2 | 17.8 | 20.0 |
| 88.5° | 10.7 | 8.4 | 6.2 | 4.6 | 6.0 | 6.5 | 7.6 | 9.1 | 11.2 | 13.5 | 15.7 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.8 | 0.5 | 0.3 | 0.3 | 0.0 | 0.1 | 0.1 | 0.3 | 1.5 | 3.2 | 4.9 |
| 90.5° | 0.4 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.7 | 2.1 |
| 91° | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 91.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92° | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 93° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 93.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 94.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 96° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 96.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 97° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 97.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 |
| 98° | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| 98.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 |
| 99° | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 |
| 99.5° | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 |
| 100° | 0.3 | 0.0 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 100.5° | 0.3 | 0.0 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| 101° | 0.3 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 101.5° | 0.3 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 102° | 0.3 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 102.5° | 0.3 | 0.0 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 103° | 0.3 | 0.0 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 |
| 103.5° | 0.3 | 0.0 | 0.3 | 0.3 | 0.4 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 |
| 104° | 0.3 | 0.0 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.3 | 0.4 | 0.3 | 0.4 |
| 104.5° | 0.3 | 0.1 | 0.3 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 | 0.3 | 0.4 | 0.4 |
| 105° | 0.3 | 0.3 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 |
| 105.5° | 0.3 | 0.3 | 0.4 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 |
| 106° | 0.3 | 0.3 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 |
| 106.5° | 0.3 | 0.4 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 |
| 107° | 0.5 | 0.4 | 0.6 | 0.6 | 0.5 | 0.6 | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 |
| 107.5° | 0.5 | 0.4 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 |
| 108° | 0.4 | 0.5 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 |
| 108.5° | 0.7 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.5 | 0.5 | 0.6 |
| 109° | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.5 | 0.5 | 0.6 |
| 109.5° | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.6 | 0.6 | 0.7 |
| 110° | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.5 | 0.6 | 0.6 |
| 110.5° | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 |
| 111° | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.7 | 0.7 | 0.6 | 0.7 | 0.8 | 0.7 | 1.0 | 0.8 | 0.7 | 0.8 | 0.8 |
| 113° | 0.7 | 0.7 | 0.6 | 0.7 | 0.8 | 0.8 | 1.0 | 0.8 | 0.7 | 0.8 | 0.8 |
| 113.5° | 0.7 | 0.7 | 0.6 | 0.7 | 0.9 | 0.8 | 1.0 | 0.8 | 0.7 | 0.9 | 0.8 |
| 114° | 0.7 | 0.7 | 0.6 | 0.7 | 0.9 | 0.8 | 1.0 | 0.9 | 0.8 | 0.9 | 0.8 |
| 114.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 0.8 | 1.0 | 0.9 | 0.8 | 0.9 | 0.8 |
| 115° | 0.7 | 0.7 | 0.6 | 0.7 | 1.0 | 0.8 | 1.0 | 1.0 | 0.9 | 0.9 | 1.0 |
| 115.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.0 | 1.0 | 1.2 | 1.0 | 0.9 | 0.9 | 1.0 |
| 116° | 0.7 | 0.7 | 0.7 | 0.8 | 1.0 | 1.0 | 1.1 | 1.0 | 0.9 | 0.9 | 0.9 |
| 116.5° | 0.7 | 0.7 | 0.7 | 0.8 | 1.1 | 1.0 | 1.1 | 1.0 | 0.9 | 0.9 | 0.9 |
| 117° | 0.7 | 0.7 | 0.8 | 0.8 | 1.1 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| 117.5° | 0.7 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| 118° | 0.7 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.2 | 1.1 | 0.9 | 1.0 | 1.0 |
| 118.5° | 0.7 | 0.7 | 0.8 | 0.8 | 1.2 | 1.2 | 1.3 | 1.1 | 0.9 | 1.0 | 1.0 |
| 119° | 0.7 | 0.7 | 0.8 | 0.9 | 1.2 | 1.1 | 1.3 | 1.2 | 1.0 | 1.1 | 1.0 |
| 119.5° | 0.7 | 0.9 | 0.9 | 0.9 | 1.1 | 1.1 | 1.4 | 1.2 | 1.0 | 1.1 | 1.1 |
| 120° | 0.7 | 0.9 | 0.9 | 0.9 | 1.1 | 1.2 | 1.4 | 1.2 | 1.0 | 1.1 | 1.1 |
| 120.5° | 0.7 | 0.9 | 0.9 | 0.9 | 1.2 | 1.1 | 1.4 | 1.2 | 1.1 | 1.1 | 1.1 |
| 121° | 0.7 | 0.9 | 0.9 | 0.9 | 1.2 | 1.1 | 1.4 | 1.2 | 1.1 | 1.1 | 1.1 |
| 121.5° | 0.7 | 0.9 | 0.9 | 1.0 | 1.2 | 1.2 | 1.4 | 1.2 | 1.1 | 1.2 | 1.2 |
| 122° | 0.7 | 1.0 | 1.0 | 1.0 | 1.2 | 1.2 | 1.5 | 1.3 | 1.1 | 1.1 | 1.2 |
| 122.5° | 0.8 | 1.1 | 1.0 | 1.0 | 1.3 | 1.2 | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 |
| 123° | 0.8 | 1.2 | 1.0 | 1.0 | 1.3 | 1.2 | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 |
| 123.5° | 0.9 | 1.2 | 1.0 | 1.2 | 1.3 | 1.2 | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 |
| 124° | 0.8 | 1.3 | 1.0 | 1.2 | 1.4 | 1.2 | 1.6 | 1.3 | 1.2 | 1.2 | 1.2 |
| 124.5° | 0.8 | 1.3 | 1.0 | 1.3 | 1.3 | 1.2 | 1.6 | 1.4 | 1.2 | 1.2 | 1.2 |
| 125° | 0.9 | 1.3 | 1.1 | 1.3 | 1.3 | 1.2 | 1.6 | 1.4 | 1.2 | 1.2 | 1.2 |
| 125.5° | 0.9 | 1.4 | 1.2 | 1.3 | 1.4 | 1.3 | 1.6 | 1.5 | 1.3 | 1.2 | 1.3 |
| 126° | 0.9 | 1.5 | 1.3 | 1.4 | 1.4 | 1.3 | 1.6 | 1.4 | 1.3 | 1.2 | 1.3 |
| 126.5° | 1.0 | 1.4 | 1.6 | 1.4 | 1.4 | 1.3 | 1.6 | 1.4 | 1.4 | 1.3 | 1.3 |
| 127° | 1.0 | 1.4 | 1.7 | 1.5 | 1.4 | 1.3 | 1.6 | 1.4 | 1.4 | 1.3 | 1.3 |
| 127.5° | 1.0 | 1.4 | 1.7 | 1.3 | 1.4 | 1.3 | 1.7 | 1.5 | 1.4 | 1.3 | 1.3 |
| 128° | 1.0 | 1.4 | 1.6 | 1.6 | 1.4 | 1.4 | 1.7 | 1.5 | 1.4 | 1.4 | 1.3 |
| 128.5° | 1.4 | 1.5 | 1.6 | 1.6 | 1.4 | 1.4 | 1.6 | 1.6 | 1.4 | 1.4 | 1.3 |
| 129° | 1.5 | 1.6 | 1.6 | 1.6 | 1.5 | 1.4 | 1.8 | 1.6 | 1.4 | 1.4 | 1.3 |
| 129.5° | 1.5 | 1.4 | 1.6 | 1.6 | 1.5 | 1.4 | 1.8 | 1.6 | 1.4 | 1.4 | 1.3 |
| 130° | 1.5 | 1.8 | 1.6 | 1.6 | 1.5 | 1.4 | 1.7 | 1.6 | 1.4 | 1.4 | 1.3 |
| 130.5° | 1.4 | 1.8 | 1.6 | 1.6 | 1.5 | 1.4 | 1.7 | 1.6 | 1.5 | 1.4 | 1.4 |
| 131° | 1.6 | 1.8 | 1.6 | 1.6 | 1.6 | 1.4 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 |
| 131.5° | 1.5 | 1.8 | 1.6 | 1.7 | 1.6 | 1.4 | 1.8 | 1.7 | 1.5 | 1.5 | 1.4 |
| 132° | 1.6 | 1.8 | 1.6 | 1.7 | 1.7 | 1.4 | 1.8 | 1.7 | 1.5 | 1.6 | 1.4 |
| 132.5° | 1.6 | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 | 1.8 | 1.8 | 1.6 | 1.6 | 1.4 |
| 133° | 1.7 | 1.8 | 1.7 | 1.6 | 1.7 | 1.5 | 1.8 | 1.7 | 1.6 | 1.6 | 1.4 |
| 133.5° | 1.6 | 1.8 | 1.7 | 1.6 | 1.7 | 1.5 | 1.8 | 1.7 | 1.6 | 1.6 | 1.4 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135° | 1.6 | 1.8 | 1.9 | 1.6 | 1.7 | 1.6 | 1.9 | 1.8 | 1.7 | 1.7 | 1.4 |
| 135.5° | 1.6 | 1.8 | 1.9 | 1.6 | 1.7 | 1.5 | 1.9 | 1.8 | 1.6 | 1.7 | 1.4 |
| 136° | 1.6 | 1.8 | 1.9 | 1.6 | 1.8 | 1.5 | 2.0 | 1.8 | 1.6 | 1.7 | 1.4 |
| 136.5° | 1.6 | 1.8 | 1.8 | 1.6 | 1.8 | 1.6 | 2.0 | 1.8 | 1.8 | 1.8 | 1.4 |
| 137° | 1.6 | 1.8 | 2.0 | 1.6 | 1.8 | 1.6 | 2.0 | 1.8 | 1.8 | 1.7 | 1.4 |
| 137.5° | 1.7 | 1.8 | 2.0 | 1.6 | 1.8 | 1.6 | 2.0 | 1.9 | 1.8 | 1.8 | 1.5 |
| 138° | 1.6 | 1.8 | 2.0 | 1.6 | 1.8 | 1.6 | 2.0 | 1.8 | 1.8 | 1.8 | 1.6 |
| 138.5° | 1.6 | 1.8 | 2.0 | 1.6 | 1.8 | 1.6 | 2.0 | 1.8 | 1.8 | 1.8 | 1.6 |
| 139° | 1.8 | 1.9 | 2.0 | 1.8 | 1.8 | 1.6 | 2.0 | 1.9 | 1.8 | 1.8 | 1.6 |
| 139.5° | 1.8 | 1.9 | 2.1 | 1.8 | 1.8 | 1.6 | 2.0 | 1.9 | 1.8 | 1.8 | 1.6 |
| 140° | 1.8 | 1.8 | 2.1 | 1.9 | 1.8 | 1.7 | 2.2 | 1.9 | 1.8 | 1.8 | 1.6 |
| 140.5° | 1.8 | 1.9 | 2.0 | 1.9 | 1.8 | 1.7 | 2.1 | 1.9 | 1.8 | 1.8 | 1.6 |
| 141° | 1.8 | 1.9 | 2.0 | 2.0 | 1.8 | 1.7 | 2.1 | 1.9 | 1.8 | 1.8 | 1.6 |
| 141.5° | 1.9 | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 2.1 | 2.0 | 1.8 | 1.9 | 1.6 |
| 142° | 1.9 | 2.0 | 2.0 | 1.9 | 1.8 | 1.7 | 2.1 | 2.0 | 1.9 | 1.9 | 1.7 |
| 142.5° | 1.9 | 2.1 | 2.1 | 2.0 | 1.8 | 1.8 | 2.1 | 2.0 | 1.9 | 2.0 | 1.6 |
| 143° | 2.0 | 2.1 | 2.1 | 2.1 | 1.8 | 1.7 | 2.1 | 2.0 | 1.9 | 2.0 | 1.6 |
| 143.5° | 2.0 | 2.1 | 2.2 | 2.1 | 1.8 | 1.7 | 2.1 | 2.1 | 2.0 | 2.0 | 1.8 |
| 144° | 2.0 | 2.2 | 2.2 | 2.2 | 1.9 | 1.8 | 2.1 | 2.2 | 2.0 | 2.0 | 1.8 |
| 144.5° | 2.0 | 2.2 | 2.2 | 2.3 | 1.9 | 1.8 | 2.1 | 2.2 | 2.0 | 2.0 | 1.8 |
| 145° | 2.1 | 2.4 | 2.2 | 2.6 | 1.9 | 1.8 | 2.2 | 2.2 | 2.0 | 2.0 | 1.7 |
| 145.5° | 2.0 | 2.6 | 2.2 | 2.6 | 1.9 | 1.8 | 2.2 | 2.2 | 2.0 | 2.0 | 1.7 |
| 146° | 2.2 | 2.7 | 2.2 | 2.6 | 1.9 | 1.8 | 2.2 | 2.2 | 2.2 | 2.0 | 1.8 |
| 146.5° | 2.4 | 2.7 | 2.4 | 2.6 | 2.0 | 1.8 | 2.2 | 2.3 | 2.1 | 2.0 | 1.8 |
| 147° | 2.5 | 2.8 | 2.4 | 2.6 | 2.2 | 1.9 | 2.2 | 2.2 | 2.2 | 2.0 | 1.9 |
| 147.5° | 2.5 | 2.8 | 2.4 | 2.6 | 2.2 | 2.0 | 2.2 | 2.2 | 2.2 | 2.0 | 1.9 |
| 148° | 2.6 | 2.8 | 2.6 | 2.6 | 2.4 | 2.0 | 2.2 | 2.3 | 2.2 | 2.0 | 1.9 |
| 148.5° | 2.6 | 2.8 | 2.6 | 2.6 | 2.4 | 2.0 | 2.2 | 2.4 | 2.3 | 2.0 | 1.9 |
| 149° | 2.6 | 2.8 | 2.7 | 2.6 | 2.5 | 2.0 | 2.2 | 2.4 | 2.3 | 2.0 | 2.0 |
| 149.5° | 2.6 | 2.8 | 2.7 | 2.6 | 2.5 | 2.2 | 2.3 | 2.4 | 2.4 | 2.0 | 2.0 |
| 150° | 2.6 | 2.8 | 2.8 | 2.7 | 2.6 | 2.2 | 2.3 | 2.4 | 2.4 | 2.0 | 2.0 |
| 150.5° | 2.7 | 2.8 | 2.9 | 2.7 | 2.6 | 2.2 | 2.2 | 2.5 | 2.4 | 2.0 | 2.1 |
| 151° | 2.6 | 2.8 | 2.9 | 2.7 | 2.6 | 2.2 | 2.2 | 2.5 | 2.4 | 2.0 | 2.2 |
| 151.5° | 2.6 | 2.8 | 2.8 | 2.7 | 2.7 | 2.4 | 2.3 | 2.6 | 2.4 | 2.1 | 2.2 |
| 152° | 2.6 | 2.8 | 2.8 | 2.8 | 2.7 | 2.4 | 2.4 | 2.5 | 2.4 | 2.1 | 2.2 |
| 152.5° | 2.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.5 | 2.4 | 2.6 | 2.5 | 2.2 | 2.3 |
| 153° | 2.6 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 2.4 | 2.6 | 2.4 | 2.2 | 2.3 |
| 153.5° | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.4 | 2.6 | 2.6 | 2.3 | 2.4 |
| 154° | 2.6 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 2.6 | 2.6 | 2.6 | 2.3 | 2.4 |
| 154.5° | 2.6 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.6 | 2.6 | 2.6 | 2.3 | 2.4 |
| 155° | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.6 | 2.6 | 2.6 | 2.4 | 2.4 |
| 155.5° | 2.8 | 2.8 | 2.9 | 2.9 | 3.0 | 3.1 | 2.7 | 2.6 | 2.6 | 2.4 | 2.5 |
| 156° | 2.8 | 2.8 | 2.8 | 3.0 | 3.3 | 3.1 | 2.7 | 2.6 | 2.6 | 2.4 | 2.5 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 157.5° | 2.8 | 2.8 | 3.0 | 3.2 | 3.5 | 3.4 | 2.9 | 2.8 | 2.8 | 2.6 | 2.8 |
| 158° | 2.8 | 2.8 | 3.1 | 3.3 | 3.5 | 3.5 | 3.1 | 2.8 | 2.8 | 2.8 | 2.8 |
| 158.5° | 2.8 | 2.9 | 3.1 | 3.4 | 3.6 | 3.6 | 3.3 | 2.9 | 2.8 | 2.8 | 2.9 |
| 159° | 2.8 | 2.9 | 3.1 | 3.6 | 3.7 | 3.6 | 3.3 | 2.9 | 2.9 | 2.9 | 2.9 |
| 159.5° | 2.8 | 3.0 | 3.2 | 3.7 | 3.8 | 3.8 | 3.3 | 2.9 | 2.8 | 3.0 | 2.9 |
| 160° | 2.9 | 3.0 | 3.3 | 3.9 | 3.7 | 3.7 | 3.4 | 3.0 | 3.0 | 3.0 | 3.0 |
| 160.5° | 2.9 | 3.1 | 3.4 | 3.8 | 3.7 | 3.7 | 3.4 | 3.1 | 3.0 | 3.1 | 3.1 |
| 161° | 2.8 | 3.1 | 3.5 | 3.8 | 3.7 | 3.7 | 3.5 | 3.2 | 3.0 | 3.1 | 3.2 |
| 161.5° | 2.8 | 3.1 | 3.5 | 3.8 | 3.7 | 3.7 | 3.5 | 3.2 | 3.0 | 3.1 | 3.2 |
| 162° | 2.8 | 3.3 | 3.7 | 3.8 | 3.7 | 3.8 | 3.5 | 3.3 | 3.0 | 3.1 | 3.3 |
| 162.5° | 2.8 | 3.3 | 3.8 | 3.9 | 3.7 | 3.7 | 3.5 | 3.3 | 3.2 | 3.1 | 3.3 |
| 163° | 2.8 | 3.5 | 3.8 | 3.8 | 3.7 | 3.7 | 3.7 | 3.5 | 3.2 | 3.1 | 3.3 |
| 163.5° | 2.8 | 3.5 | 3.9 | 3.9 | 3.5 | 3.6 | 3.7 | 3.5 | 3.2 | 3.1 | 3.3 |
| 164° | 2.8 | 3.6 | 3.8 | 3.9 | 3.5 | 3.6 | 3.6 | 3.6 | 3.3 | 3.1 | 3.3 |
| 164.5° | 2.8 | 3.7 | 3.8 | 3.9 | 3.6 | 3.6 | 3.6 | 3.6 | 3.3 | 3.1 | 3.3 |
| 165° | 2.8 | 3.7 | 3.8 | 3.9 | 3.4 | 3.6 | 3.6 | 3.6 | 3.3 | 3.2 | 3.3 |
| 165.5° | 2.8 | 3.7 | 3.8 | 3.9 | 3.3 | 3.6 | 3.6 | 3.7 | 3.4 | 3.2 | 3.3 |
| 166° | 2.8 | 3.7 | 3.8 | 3.9 | 3.5 | 3.6 | 3.6 | 3.7 | 3.5 | 3.2 | 3.3 |
| 166.5° | 2.8 | 3.7 | 3.8 | 3.9 | 3.5 | 3.6 | 3.6 | 3.7 | 3.5 | 3.2 | 3.3 |
| 167° | 2.8 | 3.8 | 3.8 | 3.9 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.2 | 3.3 |
| 167.5° | 3.0 | 3.8 | 3.8 | 3.9 | 3.4 | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.3 |
| 168° | 2.9 | 3.8 | 3.8 | 3.9 | 3.4 | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.3 |
| 168.5° | 2.9 | 3.8 | 3.8 | 3.9 | 3.4 | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.3 |
| 169° | 2.9 | 3.8 | 3.8 | 4.0 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.3 |
| 169.5° | 2.9 | 3.9 | 3.8 | 4.1 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.3 |
| 170° | 2.9 | 3.9 | 3.8 | 4.0 | 3.6 | 3.6 | 3.6 | 3.7 | 3.7 | 3.3 | 3.3 |
| 170.5° | 2.9 | 3.9 | 3.8 | 3.9 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.4 | 3.3 |
| 171° | 2.9 | 3.9 | 3.8 | 3.9 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.4 | 3.3 |
| 171.5° | 3.0 | 3.9 | 3.8 | 3.8 | 3.4 | 3.6 | 3.6 | 3.7 | 3.7 | 3.4 | 3.5 |
| 172° | 2.9 | 3.9 | 3.8 | 3.9 | 3.4 | 3.6 | 3.6 | 3.7 | 3.7 | 3.5 | 3.4 |
| 172.5° | 2.9 | 3.9 | 3.8 | 3.7 | 3.4 | 3.6 | 3.6 | 3.7 | 3.7 | 3.5 | 3.4 |
| 173° | 3.0 | 3.9 | 3.8 | 3.7 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.5 | 3.5 |
| 173.5° | 3.0 | 3.9 | 3.8 | 3.7 | 3.5 | 3.6 | 3.6 | 3.7 | 3.7 | 3.5 | 3.5 |
| 174° | 3.0 | 3.8 | 3.8 | 3.7 | 3.6 | 3.6 | 3.6 | 3.7 | 3.5 | 3.5 | 3.5 |
| 174.5° | 3.0 | 3.8 | 3.8 | 3.7 | 3.5 | 3.6 | 3.6 | 3.7 | 3.5 | 3.5 | 3.5 |
| 175° | 3.0 | 3.7 | 3.9 | 3.6 | 3.5 | 3.6 | 3.6 | 3.7 | 3.5 | 3.5 | 3.5 |
| 175.5° | 3.0 | 3.8 | 3.9 | 3.6 | 3.5 | 3.6 | 3.6 | 3.7 | 3.5 | 3.6 | 3.5 |
| 176° | 3.0 | 3.8 | 3.7 | 3.6 | 3.5 | 3.7 | 3.6 | 3.8 | 3.5 | 3.6 | 3.5 |
| 176.5° | 3.0 | 3.7 | 3.7 | 3.6 | 3.5 | 3.7 | 3.7 | 3.8 | 3.6 | 3.5 | 3.5 |
| 177° | 3.0 | 3.7 | 3.7 | 3.6 | 3.5 | 3.7 | 3.7 | 3.9 | 3.6 | 3.6 | 3.6 |
| 177.5° | 3.0 | 3.7 | 3.7 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 3.5 | 3.7 | 3.7 |
| 178° | 3.2 | 3.7 | 3.7 | 3.6 | 3.7 | 3.8 | 3.8 | 3.9 | 3.5 | 3.7 | 3.7 |
| 178.5° | 3.4 | 3.7 | 3.7 | 3.6 | 3.9 | 3.8 | 3.8 | 3.9 | 3.5 | 3.7 | 3.7 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 | 786.5 |
| 0.5° | 786.0 | 786.9 | 786.6 | 785.7 | 786.1 | 787.1 |
| 1° | 786.0 | 786.6 | 786.4 | 786.6 | 786.7 | 787.1 |
| 1.5° | 786.0 | 786.4 | 786.4 | 786.3 | 787.0 | 787.3 |
| 2° | 786.0 | 786.2 | 786.2 | 786.4 | 786.5 | 787.9 |
| 2.5° | 786.4 | 786.2 | 787.2 | 786.4 | 786.1 | 787.7 |
| 3° | 785.5 | 785.5 | 787.6 | 785.7 | 786.3 | 786.6 |
| 3.5° | 785.2 | 785.6 | 786.9 | 785.6 | 786.6 | 785.8 |
| 4° | 785.2 | 785.2 | 785.6 | 786.0 | 785.4 | 785.4 |
| 4.5° | 784.9 | 784.9 | 785.8 | 784.8 | 784.5 | 784.8 |
| 5° | 783.9 | 784.1 | 785.3 | 784.1 | 784.0 | 784.4 |
| 5.5° | 783.6 | 783.6 | 784.0 | 782.9 | 783.5 | 784.2 |
| 6° | 782.2 | 782.8 | 783.6 | 782.3 | 782.3 | 782.0 |
| 6.5° | 782.7 | 782.6 | 783.3 | 781.9 | 781.6 | 781.8 |
| 7° | 781.4 | 781.1 | 782.5 | 781.3 | 780.6 | 780.9 |
| 7.5° | 781.2 | 780.2 | 781.2 | 780.3 | 779.1 | 779.7 |
| 8° | 779.6 | 779.6 | 779.5 | 778.5 | 778.6 | 777.5 |
| 8.5° | 777.8 | 778.8 | 778.4 | 777.6 | 777.4 | 776.8 |
| 9° | 777.0 | 777.2 | 776.9 | 776.9 | 776.0 | 776.2 |
| 9.5° | 776.3 | 776.0 | 775.8 | 774.9 | 774.5 | 774.6 |
| 10° | 774.2 | 774.3 | 774.7 | 773.9 | 773.2 | 774.5 |
| 10.5° | 772.8 | 773.5 | 773.6 | 772.9 | 772.4 | 773.8 |
| 11° | 771.8 | 771.5 | 771.9 | 770.5 | 771.5 | 772.0 |
| 11.5° | 770.5 | 770.2 | 770.4 | 769.3 | 770.0 | 770.1 |
| 12° | 769.1 | 768.4 | 770.0 | 768.9 | 768.0 | 768.7 |
| 12.5° | 767.2 | 766.5 | 769.1 | 767.1 | 766.2 | 766.8 |
| 13° | 765.1 | 765.0 | 766.5 | 765.6 | 764.2 | 764.5 |
| 13.5° | 763.8 | 762.9 | 763.5 | 763.9 | 762.9 | 762.7 |
| 14° | 762.2 | 761.2 | 761.8 | 761.9 | 761.2 | 761.0 |
| 14.5° | 760.1 | 759.6 | 760.3 | 759.5 | 758.8 | 758.9 |
| 15° | 758.2 | 757.7 | 758.6 | 757.2 | 756.4 | 756.5 |
| 15.5° | 756.6 | 755.3 | 756.7 | 755.2 | 753.8 | 754.9 |
| 16° | 754.7 | 753.3 | 754.8 | 752.7 | 752.6 | 753.0 |
| 16.5° | 752.8 | 751.4 | 752.6 | 750.2 | 750.8 | 750.3 |
| 17° | 750.7 | 749.9 | 750.2 | 748.2 | 747.8 | 748.5 |
| 17.5° | 747.9 | 747.8 | 748.2 | 746.7 | 745.4 | 746.2 |
| 18° | 746.2 | 745.5 | 746.2 | 744.1 | 743.3 | 743.9 |
| 18.5° | 743.8 | 743.6 | 743.9 | 741.6 | 741.3 | 740.2 |
| 19° | 741.2 | 741.9 | 741.6 | 739.3 | 738.6 | 737.1 |
| 19.5° | 738.6 | 739.2 | 739.5 | 737.2 | 736.3 | 735.6 |
| 20° | 736.0 | 736.0 | 737.3 | 734.8 | 733.8 | 733.8 |
| 20.5° | 733.3 | 732.6 | 734.0 | 732.1 | 730.9 | 730.9 |
| 21° | 730.2 | 730.7 | 731.5 | 729.1 | 728.1 | 729.1 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 722.9 | 721.8 | 723.4 | 720.4 | 720.0 | 721.1 |
| 23° | 720.0 | 718.9 | 720.5 | 717.5 | 717.8 | 717.3 |
| 23.5° | 716.8 | 715.9 | 716.3 | 714.2 | 714.8 | 713.3 |
| 24° | 714.2 | 712.6 | 713.0 | 711.1 | 711.2 | 710.1 |
| 24.5° | 710.8 | 709.9 | 710.3 | 708.1 | 707.9 | 707.2 |
| 25° | 707.7 | 706.6 | 707.2 | 705.2 | 704.5 | 703.8 |
| 25.5° | 704.5 | 703.5 | 704.1 | 701.5 | 701.4 | 700.6 |
| 26° | 701.5 | 700.4 | 700.8 | 698.6 | 698.1 | 697.4 |
| 26.5° | 697.5 | 697.1 | 698.2 | 695.6 | 695.1 | 694.7 |
| 27° | 694.7 | 693.7 | 695.2 | 692.1 | 691.8 | 691.1 |
| 27.5° | 691.2 | 690.4 | 691.8 | 688.6 | 688.0 | 687.1 |
| 28° | 687.9 | 687.1 | 687.1 | 684.9 | 684.1 | 683.2 |
| 28.5° | 684.4 | 683.5 | 683.7 | 682.5 | 680.8 | 679.7 |
| 29° | 680.5 | 680.1 | 679.6 | 678.6 | 677.2 | 676.5 |
| 29.5° | 676.9 | 676.4 | 675.5 | 674.9 | 673.3 | 672.7 |
| 30° | 673.0 | 672.7 | 672.0 | 671.1 | 669.6 | 669.1 |
| 30.5° | 669.4 | 668.8 | 668.6 | 667.5 | 666.1 | 665.3 |
| 31° | 665.6 | 664.7 | 664.6 | 663.9 | 662.1 | 661.4 |
| 31.5° | 662.2 | 660.9 | 661.4 | 659.7 | 658.1 | 657.6 |
| 32° | 657.3 | 656.9 | 657.6 | 655.7 | 654.7 | 653.3 |
| 32.5° | 653.5 | 653.1 | 653.6 | 651.2 | 650.5 | 649.3 |
| 33° | 650.0 | 648.8 | 649.3 | 647.6 | 646.7 | 645.2 |
| 33.5° | 646.2 | 644.8 | 645.1 | 643.8 | 642.1 | 641.1 |
| 34° | 641.5 | 640.9 | 640.9 | 639.7 | 638.1 | 636.8 |
| 34.5° | 637.9 | 636.6 | 637.2 | 635.4 | 633.9 | 632.3 |
| 35° | 633.7 | 632.3 | 633.0 | 631.0 | 629.8 | 628.1 |
| 35.5° | 629.5 | 628.0 | 628.2 | 626.5 | 625.3 | 624.2 |
| 36° | 624.9 | 623.8 | 624.0 | 621.7 | 620.8 | 619.6 |
| 36.5° | 621.0 | 619.4 | 619.6 | 617.3 | 616.1 | 615.2 |
| 37° | 616.8 | 614.8 | 615.2 | 613.1 | 611.6 | 610.5 |
| 37.5° | 612.1 | 610.4 | 610.9 | 608.8 | 607.3 | 605.2 |
| 38° | 607.3 | 605.7 | 606.1 | 603.8 | 602.7 | 600.5 |
| 38.5° | 602.8 | 601.1 | 601.3 | 599.5 | 598.2 | 596.1 |
| 39° | 598.0 | 596.3 | 596.4 | 594.6 | 593.8 | 591.5 |
| 39.5° | 593.5 | 591.5 | 591.8 | 589.9 | 588.6 | 586.7 |
| 40° | 588.8 | 586.7 | 587.3 | 585.3 | 583.5 | 581.9 |
| 40.5° | 584.0 | 582.1 | 582.3 | 580.6 | 578.5 | 576.9 |
| 41° | 579.3 | 577.4 | 577.2 | 575.8 | 573.9 | 571.8 |
| 41.5° | 574.4 | 572.7 | 572.4 | 570.7 | 569.1 | 566.8 |
| 42° | 569.3 | 567.9 | 567.5 | 565.7 | 564.1 | 561.8 |
| 42.5° | 564.3 | 562.9 | 562.7 | 560.9 | 559.2 | 557.1 |
| 43° | 559.0 | 557.9 | 557.9 | 556.0 | 554.4 | 552.0 |
| 43.5° | 554.0 | 552.8 | 553.0 | 550.8 | 549.3 | 546.7 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 538.7 | 537.1 | 537.1 | 535.3 | 533.1 | 531.1 |
| 45.5° | 534.0 | 531.8 | 532.1 | 530.1 | 527.9 | 526.0 |
| 46° | 528.5 | 526.4 | 526.6 | 525.0 | 522.8 | 520.7 |
| 46.5° | 523.0 | 521.2 | 521.3 | 519.9 | 517.4 | 515.1 |
| 47° | 518.2 | 515.8 | 515.9 | 514.1 | 511.8 | 509.6 |
| 47.5° | 512.2 | 510.3 | 510.3 | 508.3 | 506.5 | 504.2 |
| 48° | 506.5 | 504.9 | 505.0 | 503.1 | 500.9 | 498.6 |
| 48.5° | 501.2 | 499.4 | 499.4 | 497.5 | 495.3 | 493.0 |
| 49° | 496.0 | 493.9 | 493.8 | 492.2 | 489.8 | 487.5 |
| 49.5° | 489.8 | 488.6 | 488.6 | 486.9 | 484.4 | 481.9 |
| 50° | 484.4 | 483.0 | 482.8 | 481.1 | 478.4 | 475.9 |
| 50.5° | 478.3 | 477.2 | 477.1 | 475.5 | 472.9 | 470.1 |
| 51° | 472.5 | 471.1 | 471.4 | 470.0 | 467.1 | 464.5 |
| 51.5° | 467.0 | 465.6 | 465.6 | 464.4 | 461.1 | 458.9 |
| 52° | 461.2 | 459.9 | 460.0 | 458.5 | 455.5 | 453.2 |
| 52.5° | 455.4 | 453.8 | 454.0 | 452.4 | 449.4 | 446.9 |
| 53° | 449.6 | 448.2 | 448.1 | 446.4 | 443.6 | 441.1 |
| 53.5° | 443.5 | 442.2 | 442.1 | 440.4 | 437.7 | 435.3 |
| 54° | 437.5 | 436.0 | 436.0 | 434.3 | 431.6 | 429.2 |
| 54.5° | 432.0 | 430.0 | 430.1 | 428.3 | 425.6 | 423.4 |
| 55° | 425.8 | 424.3 | 424.1 | 422.5 | 419.4 | 417.0 |
| 55.5° | 420.2 | 418.3 | 417.9 | 416.2 | 413.2 | 410.9 |
| 56° | 413.6 | 412.1 | 411.4 | 410.2 | 407.1 | 404.5 |
| 56.5° | 407.6 | 406.0 | 405.2 | 404.0 | 401.0 | 398.5 |
| 57° | 401.6 | 399.8 | 399.1 | 397.7 | 394.8 | 392.4 |
| 57.5° | 395.5 | 393.4 | 392.9 | 391.5 | 388.7 | 385.8 |
| 58° | 389.3 | 387.2 | 386.7 | 385.2 | 382.4 | 379.5 |
| 58.5° | 382.8 | 381.0 | 380.3 | 378.9 | 376.3 | 373.3 |
| 59° | 376.5 | 374.6 | 374.2 | 372.7 | 369.8 | 367.0 |
| 59.5° | 370.3 | 368.4 | 367.7 | 366.2 | 363.3 | 360.7 |
| 60° | 364.0 | 362.0 | 361.4 | 359.8 | 356.9 | 354.6 |
| 60.5° | 357.8 | 355.4 | 355.2 | 353.6 | 350.6 | 348.0 |
| 61° | 351.5 | 349.0 | 348.9 | 347.3 | 344.0 | 341.4 |
| 61.5° | 345.5 | 342.6 | 342.5 | 341.0 | 338.1 | 335.1 |
| 62° | 339.0 | 336.3 | 336.2 | 334.1 | 331.6 | 328.4 |
| 62.5° | 332.4 | 329.9 | 329.6 | 327.7 | 325.1 | 322.0 |
| 63° | 326.2 | 323.4 | 323.0 | 321.1 | 318.6 | 315.6 |
| 63.5° | 319.8 | 317.0 | 316.5 | 315.0 | 312.2 | 309.0 |
| 64° | 313.2 | 310.5 | 310.0 | 308.5 | 305.9 | 302.6 |
| 64.5° | 306.5 | 304.0 | 303.7 | 301.8 | 299.3 | 296.0 |
| 65° | 300.1 | 297.6 | 297.2 | 295.4 | 292.7 | 289.7 |
| 65.5° | 293.5 | 290.9 | 290.6 | 289.1 | 286.1 | 283.1 |
| 66° | 287.1 | 284.4 | 284.1 | 282.4 | 279.6 | 276.4 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 267.5 | 264.6 | 264.3 | 262.9 | 260.0 | 256.5 |
| 68° | 260.2 | 257.9 | 257.7 | 256.5 | 253.5 | 249.7 |
| 68.5° | 254.1 | 251.4 | 251.1 | 249.8 | 246.8 | 243.0 |
| 69° | 247.1 | 244.7 | 244.7 | 243.3 | 240.5 | 236.6 |
| 69.5° | 240.4 | 238.0 | 238.0 | 236.3 | 233.6 | 230.2 |
| 70° | 233.8 | 231.4 | 231.2 | 229.6 | 227.1 | 223.7 |
| 70.5° | 227.4 | 224.8 | 224.9 | 223.1 | 220.7 | 217.4 |
| 71° | 221.1 | 218.3 | 218.1 | 216.7 | 214.0 | 210.9 |
| 71.5° | 214.4 | 211.8 | 211.7 | 210.3 | 207.6 | 204.4 |
| 72° | 207.9 | 205.1 | 205.0 | 203.6 | 201.0 | 197.9 |
| 72.5° | 201.4 | 198.7 | 198.5 | 197.2 | 194.1 | 191.1 |
| 73° | 194.9 | 192.0 | 192.0 | 190.7 | 187.9 | 184.7 |
| 73.5° | 188.4 | 185.7 | 185.7 | 184.4 | 181.6 | 178.2 |
| 74° | 181.8 | 179.2 | 179.2 | 177.6 | 175.1 | 171.7 |
| 74.5° | 175.3 | 172.8 | 172.8 | 171.4 | 168.7 | 165.2 |
| 75° | 168.8 | 166.2 | 166.2 | 165.1 | 162.3 | 158.9 |
| 75.5° | 162.3 | 159.9 | 159.9 | 158.7 | 156.0 | 152.6 |
| 76° | 156.1 | 153.5 | 153.6 | 152.3 | 149.8 | 146.3 |
| 76.5° | 149.8 | 147.3 | 147.3 | 146.4 | 143.5 | 140.1 |
| 77° | 143.7 | 140.8 | 141.1 | 140.0 | 137.3 | 133.7 |
| 77.5° | 137.4 | 134.8 | 134.8 | 133.8 | 131.0 | 127.7 |
| 78° | 131.1 | 128.7 | 128.7 | 127.3 | 124.9 | 121.7 |
| 78.5° | 124.7 | 122.6 | 122.6 | 121.6 | 118.8 | 115.5 |
| 79° | 118.9 | 116.5 | 116.5 | 115.5 | 113.0 | 109.7 |
| 79.5° | 112.6 | 110.5 | 110.5 | 109.4 | 106.9 | 103.8 |
| 80° | 106.7 | 104.5 | 104.6 | 103.2 | 101.1 | 98.0 |
| 80.5° | 101.0 | 98.5 | 98.8 | 97.6 | 95.3 | 92.2 |
| 81° | 95.0 | 92.6 | 92.9 | 92.0 | 89.7 | 86.6 |
| 81.5° | 89.3 | 87.1 | 87.3 | 86.4 | 83.9 | 80.8 |
| 82° | 83.5 | 81.5 | 81.7 | 80.8 | 78.3 | 75.2 |
| 82.5° | 77.9 | 75.9 | 76.0 | 75.0 | 72.7 | 69.6 |
| 83° | 72.3 | 70.3 | 70.2 | 69.3 | 67.1 | 63.9 |
| 83.5° | 66.5 | 64.7 | 64.7 | 63.8 | 61.5 | 58.4 |
| 84° | 61.3 | 59.3 | 59.4 | 58.4 | 56.3 | 53.3 |
| 84.5° | 56.1 | 54.0 | 54.1 | 53.0 | 51.0 | 48.1 |
| 85° | 50.9 | 48.6 | 48.9 | 47.8 | 45.8 | 42.9 |
| 85.5° | 45.7 | 43.5 | 43.7 | 42.6 | 40.6 | 37.8 |
| 86° | 40.7 | 38.3 | 38.5 | 37.8 | 35.6 | 32.9 |
| 86.5° | 35.7 | 33.5 | 33.4 | 32.6 | 30.6 | 28.1 |
| 87° | 30.9 | 28.7 | 28.6 | 27.8 | 25.9 | 23.5 |
| 87.5° | 26.1 | 24.1 | 24.0 | 23.2 | 21.5 | 19.1 |
| 88° | 21.6 | 19.6 | 19.7 | 18.8 | 16.9 | 14.9 |
| 88.5° | 17.2 | 15.3 | 15.4 | 14.5 | 12.8 | 10.7 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90° | 6.0 | 4.3 | 4.3 | 3.7 | 2.0 | 0.8 |
| 90.5° | 3.0 | 1.4 | 1.4 | 1.2 | 0.5 | 0.4 |
| 91° | 0.5 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 |
| 91.5° | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 92° | 0.0 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 92.5° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 93° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 93.5° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 94° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 94.5° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 95° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 95.5° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 96° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 96.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 97° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 97.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 98° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 98.5° | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 99° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 99.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 100° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 100.5° | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 101° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 101.5° | 0.3 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 |
| 102° | 0.3 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 |
| 102.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| 103° | 0.4 | 0.3 | 0.5 | 0.3 | 0.2 | 0.3 |
| 103.5° | 0.4 | 0.3 | 0.5 | 0.3 | 0.2 | 0.3 |
| 104° | 0.4 | 0.3 | 0.5 | 0.3 | 0.2 | 0.3 |
| 104.5° | 0.4 | 0.3 | 0.5 | 0.3 | 0.2 | 0.3 |
| 105° | 0.5 | 0.3 | 0.5 | 0.3 | 0.2 | 0.3 |
| 105.5° | 0.5 | 0.3 | 0.5 | 0.5 | 0.2 | 0.3 |
| 106° | 0.5 | 0.3 | 0.5 | 0.5 | 0.4 | 0.3 |
| 106.5° | 0.5 | 0.4 | 0.5 | 0.6 | 0.3 | 0.3 |
| 107° | 0.5 | 0.4 | 0.5 | 0.7 | 0.5 | 0.5 |
| 107.5° | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.5 |
| 108° | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.4 |
| 108.5° | 0.6 | 0.5 | 0.6 | 0.8 | 0.7 | 0.7 |
| 109° | 0.6 | 0.5 | 0.7 | 0.8 | 0.7 | 0.6 |
| 109.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 110° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 110.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 |
| 111° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 113° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 113.5° | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 114° | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 114.5° | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 115° | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 115.5° | 0.9 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| 116° | 0.9 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| 116.5° | 1.0 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| 117° | 1.0 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| 117.5° | 1.1 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 |
| 118° | 1.1 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 |
| 118.5° | 1.1 | 0.8 | 0.9 | 0.9 | 0.7 | 0.7 |
| 119° | 1.1 | 0.8 | 0.9 | 0.9 | 0.8 | 0.7 |
| 119.5° | 1.1 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 |
| 120° | 1.2 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 |
| 120.5° | 1.2 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 |
| 121° | 1.2 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 |
| 121.5° | 1.2 | 0.9 | 0.9 | 0.9 | 0.9 | 0.7 |
| 122° | 1.2 | 0.9 | 1.0 | 1.0 | 0.9 | 0.7 |
| 122.5° | 1.3 | 0.9 | 1.0 | 1.0 | 0.9 | 0.8 |
| 123° | 1.3 | 0.9 | 0.9 | 1.0 | 1.0 | 0.8 |
| 123.5° | 1.4 | 1.0 | 0.9 | 1.0 | 0.9 | 0.9 |
| 124° | 1.4 | 1.0 | 0.9 | 1.0 | 1.0 | 0.8 |
| 124.5° | 1.4 | 1.0 | 0.9 | 1.1 | 1.0 | 0.8 |
| 125° | 1.4 | 1.0 | 0.9 | 1.1 | 0.9 | 0.9 |
| 125.5° | 1.4 | 1.0 | 0.9 | 1.2 | 1.1 | 0.9 |
| 126° | 1.5 | 1.1 | 0.9 | 1.2 | 1.1 | 0.9 |
| 126.5° | 1.5 | 1.1 | 0.9 | 1.2 | 1.1 | 1.0 |
| 127° | 1.4 | 1.4 | 0.9 | 1.3 | 1.2 | 1.0 |
| 127.5° | 1.4 | 1.4 | 1.0 | 1.3 | 1.2 | 1.0 |
| 128° | 1.6 | 1.4 | 1.0 | 1.4 | 1.3 | 1.0 |
| 128.5° | 1.5 | 1.5 | 1.0 | 1.6 | 1.3 | 1.4 |
| 129° | 1.5 | 1.6 | 1.0 | 1.6 | 1.4 | 1.5 |
| 129.5° | 1.6 | 1.7 | 1.0 | 1.6 | 1.5 | 1.5 |
| 130° | 1.6 | 1.7 | 1.2 | 1.6 | 1.4 | 1.5 |
| 130.5° | 1.6 | 1.7 | 1.2 | 1.6 | 1.5 | 1.4 |
| 131° | 1.7 | 1.7 | 1.2 | 1.6 | 1.6 | 1.6 |
| 131.5° | 1.6 | 1.7 | 1.3 | 1.6 | 1.6 | 1.5 |
| 132° | 1.7 | 1.7 | 1.5 | 1.6 | 1.6 | 1.6 |
| 132.5° | 1.7 | 1.7 | 1.4 | 1.6 | 1.6 | 1.6 |
| 133° | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 |
| 133.5° | 1.8 | 1.7 | 1.5 | 1.6 | 1.6 | 1.6 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135° | 1.9 | 1.8 | 1.6 | 1.7 | 1.6 | 1.6 |
| 135.5° | 1.8 | 1.8 | 1.6 | 1.7 | 1.6 | 1.6 |
| 136° | 1.8 | 1.8 | 1.6 | 1.8 | 1.6 | 1.6 |
| 136.5° | 2.0 | 1.8 | 1.6 | 1.8 | 2.2 | 1.6 |
| 137° | 2.0 | 1.8 | 1.6 | 1.8 | 2.2 | 1.6 |
| 137.5° | 2.0 | 1.8 | 1.6 | 1.9 | 2.2 | 1.7 |
| 138° | 2.0 | 1.8 | 1.6 | 1.8 | 2.2 | 1.6 |
| 138.5° | 2.0 | 1.9 | 1.6 | 1.9 | 2.2 | 1.6 |
| 139° | 2.0 | 2.0 | 1.6 | 1.9 | 2.2 | 1.8 |
| 139.5° | 2.1 | 2.3 | 1.6 | 1.9 | 2.2 | 1.8 |
| 140° | 2.1 | 2.4 | 1.7 | 1.9 | 2.2 | 1.8 |
| 140.5° | 2.2 | 2.3 | 1.6 | 1.9 | 2.2 | 1.8 |
| 141° | 2.2 | 2.3 | 1.8 | 2.0 | 2.2 | 1.8 |
| 141.5° | 2.2 | 2.3 | 1.8 | 2.0 | 2.2 | 1.9 |
| 142° | 2.2 | 2.4 | 1.8 | 2.0 | 2.2 | 1.9 |
| 142.5° | 2.3 | 2.3 | 1.8 | 2.0 | 2.2 | 1.9 |
| 143° | 2.2 | 2.3 | 1.8 | 2.1 | 2.2 | 2.0 |
| 143.5° | 2.2 | 2.4 | 1.9 | 2.0 | 2.2 | 2.0 |
| 144° | 2.4 | 2.5 | 1.9 | 2.1 | 2.2 | 2.0 |
| 144.5° | 2.4 | 2.5 | 2.0 | 2.2 | 2.3 | 2.0 |
| 145° | 2.4 | 2.6 | 2.0 | 2.2 | 2.4 | 2.1 |
| 145.5° | 2.4 | 2.7 | 2.0 | 2.3 | 2.4 | 2.0 |
| 146° | 2.4 | 2.7 | 2.0 | 2.2 | 2.5 | 2.2 |
| 146.5° | 2.4 | 2.8 | 2.1 | 2.3 | 2.6 | 2.4 |
| 147° | 2.6 | 2.8 | 2.2 | 2.5 | 2.7 | 2.5 |
| 147.5° | 2.6 | 2.8 | 2.3 | 2.4 | 2.7 | 2.5 |
| 148° | 2.6 | 2.7 | 2.4 | 2.6 | 2.6 | 2.6 |
| 148.5° | 2.6 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 |
| 149° | 2.6 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 |
| 149.5° | 2.6 | 2.7 | 2.7 | 2.7 | 2.6 | 2.6 |
| 150° | 2.7 | 2.8 | 2.7 | 2.7 | 2.6 | 2.6 |
| 150.5° | 2.7 | 2.8 | 2.7 | 2.8 | 2.6 | 2.7 |
| 151° | 2.7 | 2.7 | 2.7 | 2.8 | 2.6 | 2.6 |
| 151.5° | 2.8 | 2.9 | 2.7 | 2.8 | 2.6 | 2.6 |
| 152° | 2.8 | 2.8 | 2.7 | 2.8 | 2.6 | 2.6 |
| 152.5° | 2.8 | 3.0 | 2.7 | 2.8 | 2.6 | 2.6 |
| 153° | 2.8 | 3.0 | 2.8 | 2.8 | 2.6 | 2.6 |
| 153.5° | 2.8 | 3.0 | 2.8 | 2.8 | 2.6 | 2.7 |
| 154° | 2.8 | 3.1 | 2.8 | 2.8 | 2.6 | 2.6 |
| 154.5° | 2.8 | 3.1 | 2.9 | 2.8 | 2.6 | 2.6 |
| 155° | 2.8 | 3.1 | 2.9 | 2.8 | 2.6 | 2.8 |
| 155.5° | 2.9 | 3.3 | 3.0 | 2.8 | 2.6 | 2.8 |
| 156° | 3.0 | 3.4 | 3.1 | 2.8 | 2.6 | 2.8 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 157.5° | 3.1 | 3.8 | 3.5 | 2.8 | 2.6 | 2.8 |
| 158° | 3.3 | 3.8 | 3.6 | 2.8 | 2.6 | 2.8 |
| 158.5° | 3.2 | 3.8 | 3.7 | 2.8 | 2.6 | 2.8 |
| 159° | 3.2 | 3.8 | 3.7 | 2.8 | 2.6 | 2.8 |
| 159.5° | 3.3 | 3.8 | 3.7 | 2.8 | 2.6 | 2.8 |
| 160° | 3.3 | 3.8 | 3.7 | 2.8 | 2.6 | 2.9 |
| 160.5° | 3.4 | 3.8 | 3.7 | 2.8 | 2.6 | 2.9 |
| 161° | 3.5 | 3.8 | 3.9 | 2.9 | 2.6 | 2.8 |
| 161.5° | 3.5 | 3.8 | 3.9 | 2.9 | 2.6 | 2.8 |
| 162° | 3.5 | 3.8 | 3.8 | 2.9 | 2.7 | 2.8 |
| 162.5° | 3.5 | 3.8 | 3.8 | 3.0 | 2.7 | 2.8 |
| 163° | 3.5 | 3.8 | 3.8 | 3.1 | 2.7 | 2.8 |
| 163.5° | 3.6 | 3.8 | 3.8 | 3.1 | 2.8 | 2.8 |
| 164° | 3.6 | 3.8 | 3.8 | 3.2 | 2.8 | 2.8 |
| 164.5° | 3.5 | 3.8 | 3.8 | 3.3 | 2.9 | 2.8 |
| 165° | 3.5 | 3.8 | 3.8 | 3.3 | 2.8 | 2.8 |
| 165.5° | 3.5 | 3.8 | 3.8 | 3.5 | 2.9 | 2.8 |
| 166° | 3.5 | 3.8 | 3.8 | 3.5 | 3.0 | 2.8 |
| 166.5° | 3.5 | 3.8 | 3.8 | 3.7 | 3.0 | 2.8 |
| 167° | 3.5 | 3.8 | 3.8 | 3.8 | 3.1 | 2.8 |
| 167.5° | 3.5 | 3.8 | 3.8 | 3.8 | 3.1 | 3.0 |
| 168° | 3.5 | 3.8 | 3.8 | 3.7 | 3.0 | 2.9 |
| 168.5° | 3.5 | 3.8 | 3.8 | 3.7 | 3.0 | 2.9 |
| 169° | 3.5 | 3.8 | 3.8 | 3.8 | 3.0 | 2.9 |
| 169.5° | 3.5 | 3.8 | 3.8 | 3.8 | 3.0 | 2.9 |
| 170° | 3.5 | 3.8 | 3.8 | 3.8 | 3.0 | 2.9 |
| 170.5° | 3.5 | 3.8 | 3.9 | 3.8 | 3.0 | 2.9 |
| 171° | 3.5 | 3.8 | 3.9 | 3.8 | 3.0 | 2.9 |
| 171.5° | 3.5 | 3.8 | 3.9 | 3.8 | 3.0 | 3.0 |
| 172° | 3.5 | 3.9 | 3.9 | 3.8 | 3.0 | 2.9 |
| 172.5° | 3.5 | 3.9 | 3.9 | 3.8 | 3.0 | 2.9 |
| 173° | 3.5 | 3.7 | 3.9 | 3.8 | 3.0 | 3.0 |
| 173.5° | 3.5 | 3.7 | 3.9 | 3.8 | 3.0 | 3.0 |
| 174° | 3.5 | 3.7 | 3.9 | 3.8 | 3.0 | 3.0 |
| 174.5° | 3.5 | 3.8 | 3.9 | 3.8 | 3.0 | 3.0 |
| 175° | 3.5 | 3.8 | 3.9 | 3.8 | 3.0 | 3.0 |
| 175.5° | 3.5 | 3.7 | 3.9 | 3.8 | 3.0 | 3.0 |
| 176° | 3.6 | 3.7 | 3.7 | 3.8 | 3.1 | 3.0 |
| 176.5° | 3.7 | 3.7 | 3.7 | 3.8 | 3.1 | 3.0 |
| 177° | 3.7 | 3.7 | 3.7 | 3.9 | 3.1 | 3.0 |
| 177.5° | 3.7 | 3.7 | 3.7 | 3.9 | 3.3 | 3.0 |
| 178° | 3.7 | 3.7 | 3.7 | 3.9 | 3.5 | 3.2 |
| 178.5° | 3.7 | 3.7 | 3.7 | 3.9 | 3.5 | 3.4 |



TEST NUMBER: P579676

CATALOG NUMBER: SMD14R209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 726.2 | 723.0 | 721.4 | 718.2 | 718.1 | 719.8 | 720.5 | 721.6 | 724.6 | 726.1 | 727.9 |
| 22° | 723.7 | 719.9 | 718.2 | 715.1 | 715.6 | 717.1 | 717.5 | 718.5 | 721.9 | 723.0 | 725.2 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 541.7 | 537.3 | 534.8 | 531.9 | 532.3 | 533.9 | 535.5 | 537.9 | 541.7 | 544.4 | 547.1 |
| 44.5° | 536.5 | 532.2 | 529.6 | 526.6 | 527.4 | 528.6 | 530.3 | 532.6 | 536.2 | 539.0 | 542.3 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 269.8 | 265.0 | 260.8 | 257.6 | 260.0 | 261.0 | 263.1 | 266.5 | 270.1 | 274.2 | 277.7 |
| 67° | 263.1 | 258.4 | 254.3 | 251.1 | 253.7 | 254.9 | 256.8 | 260.1 | 263.8 | 267.5 | 271.2 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 89° | 7.0 | 4.9 | 3.1 | 1.7 | 3.0 | 3.4 | 4.4 | 5.8 | 7.6 | 9.7 | 11.6 |
| 89.5° | 3.5 | 1.6 | 1.0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.7 | 4.3 | 6.5 | 8.2 |



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|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 111.5° | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 |
| 112° | 0.7 | 0.7 | 0.6 | 0.7 | 0.9 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 134° | 1.6 | 1.8 | 1.8 | 1.6 | 1.7 | 1.5 | 1.9 | 1.8 | 1.6 | 1.6 | 1.4 |
| 134.5° | 1.6 | 1.8 | 1.8 | 1.6 | 1.7 | 1.5 | 1.9 | 1.8 | 1.6 | 1.7 | 1.4 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 156.5° | 2.8 | 2.8 | 2.8 | 3.1 | 3.3 | 3.3 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 |
| 157° | 2.8 | 2.8 | 3.0 | 3.2 | 3.3 | 3.3 | 2.9 | 2.7 | 2.8 | 2.6 | 2.6 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 179° | 3.6 | 3.7 | 3.7 | 3.6 | 3.9 | 3.7 | 3.7 | 3.9 | 3.5 | 3.7 | 3.7 |
| 179.5° | 3.6 | 3.7 | 3.7 | 3.6 | 3.9 | 3.7 | 3.7 | 3.9 | 3.5 | 3.6 | 3.7 |





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|-------|-------|-------|-------|-------|-------|-------|
| 21.5° | 727.0 | 728.1 | 728.5 | 726.4 | 725.5 | 726.2 |
| 22° | 725.6 | 725.2 | 725.7 | 723.6 | 722.8 | 723.7 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 549.1 | 547.5 | 547.7 | 545.8 | 544.0 | 541.7 |
| 44.5° | 544.2 | 542.3 | 542.7 | 540.5 | 538.5 | 536.5 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 280.5 | 277.8 | 277.6 | 276.0 | 273.3 | 269.8 |
| 67° | 274.0 | 271.2 | 271.0 | 269.5 | 266.5 | 263.1 |



| | | | | | | |
|-------|------|------|------|------|-----|-----|
| 89° | 12.9 | 11.2 | 11.3 | 10.6 | 9.0 | 7.0 |
| 89.5° | 9.3 | 7.5 | 7.5 | 7.1 | 5.4 | 3.5 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 111.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 112° | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 134° | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 |
| 134.5° | 1.8 | 1.7 | 1.6 | 1.7 | 1.6 | 1.6 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 156.5° | 3.0 | 3.5 | 3.2 | 2.8 | 2.6 | 2.8 |
| 157° | 3.1 | 3.7 | 3.3 | 2.8 | 2.6 | 2.8 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 179° | 3.7 | 3.7 | 3.7 | 3.9 | 3.5 | 3.6 |
| 179.5° | 3.7 | 3.7 | 3.7 | 3.9 | 3.5 | 3.6 |



(END OF REPORT)