

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: HALO

Report Number: P1590627

Luminaire Tested: HCDLS510CSD6TRMW-ME-2700K

Issue Date: 9/4/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1590627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2603928B003)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/4/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: HCDLS510CSD6TRMW-ME-2700K  
Description: 6" Selectable Round Trim+Matte White (paintable) 700 Lumens 2700K  
  
Light Source:  
Ballast/Driver: -

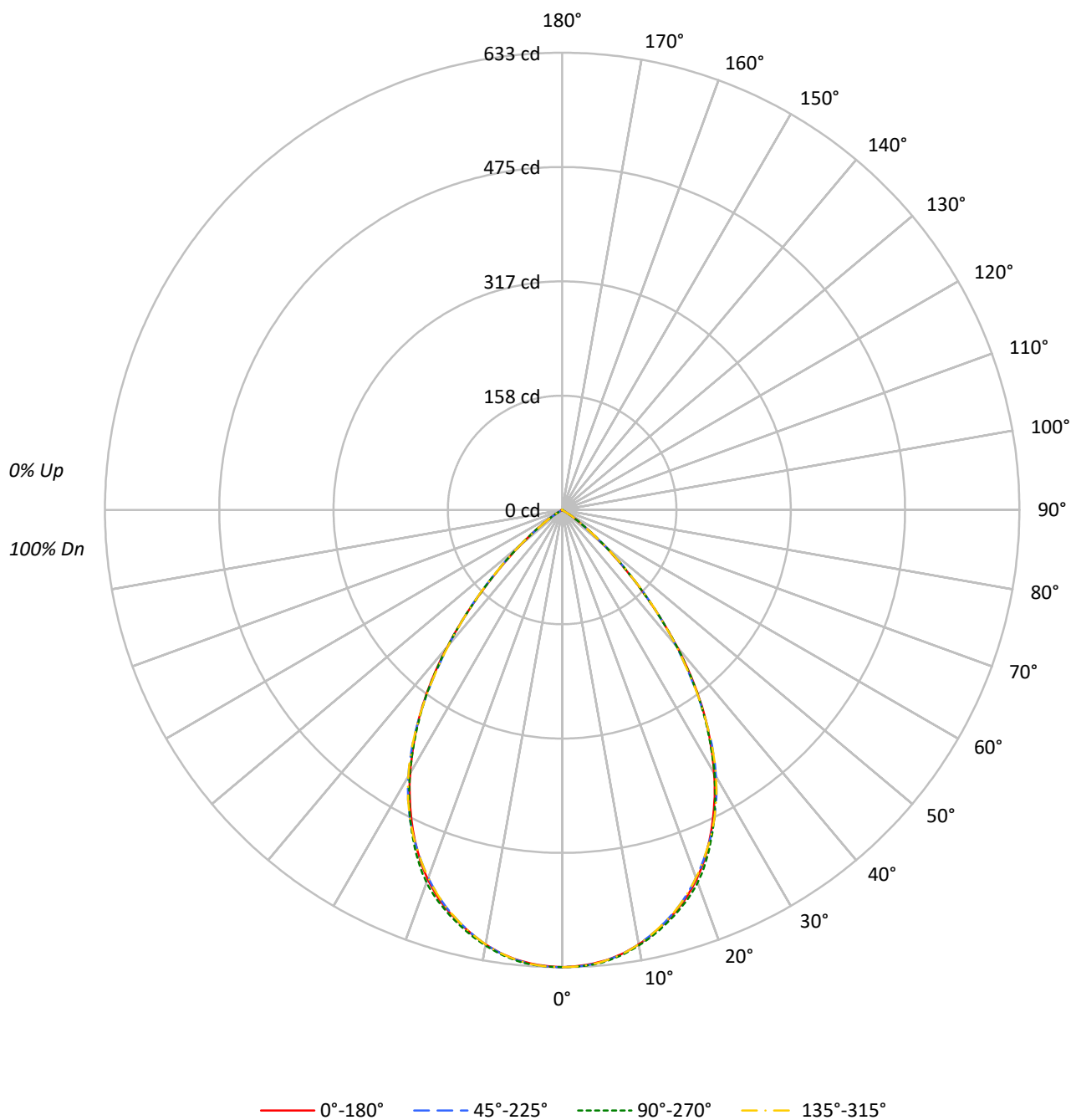
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 804.4 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 8.5  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 94  | 94  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 86  | 86  | 84  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 79  | 79  | 77  |
| 4   | 94  | 86  | 80  | 75  | 92  | 85  | 79  | 75  | 83  | 78  | 74  | 80  | 76  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 77  | 71  | 67  | 75  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 64  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 61  | 61  | 61  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 56  | 56  | 54  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 48  | 48  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 44  | 44  | 43  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 34696 | 34696 | 34696 | 34696 |
| 5°  | 34526 | 34608 | 34526 | 34608 |
| 10° | 33990 | 34079 | 33990 | 34079 |
| 15° | 33065 | 33218 | 33065 | 33218 |
| 20° | 31742 | 32016 | 31742 | 32016 |
| 25° | 29560 | 29784 | 29560 | 29784 |
| 30° | 26624 | 26681 | 26624 | 26681 |
| 35° | 22834 | 22720 | 22834 | 22720 |
| 40° | 17697 | 17683 | 17697 | 17683 |
| 45° | 11730 | 11761 | 11730 | 11761 |
| 50° | 6354  | 6507  | 6354  | 6507  |
| 55° | 2600  | 2581  | 2600  | 2581  |
| 60° | 296   | 241   | 296   | 241   |
| 65° | 39    | 26    | 39    | 26    |
| 70° | 16    | 16    | 16    | 16    |
| 75° | 0     | 0     | 0     | 0     |
| 80° | 0     | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 11916 cd/sqm

TEST NUMBER: P1590627

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.4   | 7.4       |
| 10°-20°   | 163.7  | 20.4      |
| 20°-30°   | 224.4  | 27.9      |
| 30°-40°   | 210.5  | 26.2      |
| 40°-50°   | 118.4  | 14.7      |
| 50°-60°   | 27.0   | 3.4       |
| 60°-70°   | 0.5    | 0.1       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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° | 0.1    | 0.0       |
| 140°-150° | 0.1    | 0.0       |
| 150°-160° | 0.1    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 447.6  | 55.6      |
| 0°-40°    | 658.1  | 81.8      |
| 0°-60°    | 803.5  | 99.9      |
| 0°-90°    | 804.0  | 99.9      |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.2    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 804.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 633 | 633 | 633  | 633  | 633  |      |
| 5°   | 627 | 629 | 627  | 629  | 627  | 59   |
| 15°  | 583 | 585 | 583  | 585  | 583  | 164  |
| 25°  | 489 | 492 | 489  | 492  | 489  | 224  |
| 35°  | 341 | 340 | 341  | 340  | 341  | 211  |
| 45°  | 151 | 152 | 151  | 152  | 151  | 118  |
| 55°  | 27  | 27  | 27   | 27   | 27   | 27   |
| 65°  | 0   | 0   | 0    | 0    | 0    | 1    |
| 75°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 85°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 90°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 95°  | 0   | 0   | 0    | 0    | 0    | 0    |
| 105° | 0   | 0   | 0    | 0    | 0    | 0    |
| 115° | 0   | 0   | 0    | 0    | 0    | 0    |
| 125° | 0   | 0   | 0    | 0    | 0    | 0    |
| 135° | 0   | 0   | 0    | 0    | 0    | 0    |
| 145° | 0   | 0   | 0    | 0    | 0    | 0    |
| 155° | 0   | 0   | 0    | 0    | 0    | 0    |
| 165° | 0   | 0   | 0    | 0    | 0    | 0    |
| 175° | 0   | 0   | 0    | 0    | 0    | 0    |
| 180° | 0   | 0   | 0    | 0    | 0    | 0    |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 632.9 | 632.9 | 632.9 | 632.9 | 632.9 | 632.9  | 632.9 | 632.9  | 632.9 | 632.9  | 632.9 |
| 0.5°  | 632.6 | 632.7 | 633.0 | 633.0 | 632.8 | 633.0  | 633.0 | 632.7  | 632.6 | 632.7  | 633.0 |
| 1°    | 632.5 | 632.5 | 632.9 | 632.8 | 632.7 | 632.8  | 632.9 | 632.5  | 632.5 | 632.5  | 632.9 |
| 1.5°  | 632.1 | 632.3 | 632.6 | 632.7 | 632.5 | 632.7  | 632.6 | 632.3  | 632.1 | 632.3  | 632.6 |
| 2°    | 631.8 | 631.9 | 632.3 | 632.4 | 632.3 | 632.4  | 632.3 | 631.9  | 631.8 | 631.9  | 632.3 |
| 2.5°  | 631.3 | 631.5 | 631.8 | 632.0 | 632.0 | 632.0  | 631.8 | 631.5  | 631.3 | 631.5  | 631.8 |
| 3°    | 630.7 | 630.9 | 631.3 | 631.5 | 631.7 | 631.5  | 631.3 | 630.9  | 630.7 | 630.9  | 631.3 |
| 3.5°  | 630.0 | 630.2 | 630.6 | 630.9 | 631.1 | 630.9  | 630.6 | 630.2  | 630.0 | 630.2  | 630.6 |
| 4°    | 629.2 | 629.5 | 629.8 | 630.2 | 630.6 | 630.2  | 629.8 | 629.5  | 629.2 | 629.5  | 629.8 |
| 4.5°  | 628.4 | 628.6 | 629.0 | 629.4 | 629.8 | 629.4  | 629.0 | 628.6  | 628.4 | 628.6  | 629.0 |
| 5°    | 627.4 | 627.6 | 628.0 | 628.4 | 628.9 | 628.4  | 628.0 | 627.6  | 627.4 | 627.6  | 628.0 |
| 5.5°  | 626.3 | 626.5 | 626.8 | 627.2 | 627.8 | 627.2  | 626.8 | 626.5  | 626.3 | 626.5  | 626.8 |
| 6°    | 625.0 | 625.3 | 625.5 | 625.9 | 626.6 | 625.9  | 625.5 | 625.3  | 625.0 | 625.3  | 625.5 |
| 6.5°  | 623.7 | 624.0 | 624.1 | 624.4 | 625.2 | 624.4  | 624.1 | 624.0  | 623.7 | 624.0  | 624.1 |
| 7°    | 622.3 | 622.6 | 622.5 | 622.8 | 623.7 | 622.8  | 622.5 | 622.6  | 622.3 | 622.6  | 622.5 |
| 7.5°  | 620.7 | 621.0 | 620.8 | 621.1 | 622.0 | 621.1  | 620.8 | 621.0  | 620.7 | 621.0  | 620.8 |
| 8°    | 618.9 | 619.3 | 619.1 | 619.3 | 620.3 | 619.3  | 619.1 | 619.3  | 618.9 | 619.3  | 619.1 |
| 8.5°  | 617.0 | 617.5 | 617.1 | 617.3 | 618.4 | 617.3  | 617.1 | 617.5  | 617.0 | 617.5  | 617.1 |
| 9°    | 615.0 | 615.5 | 615.1 | 615.3 | 616.4 | 615.3  | 615.1 | 615.5  | 615.0 | 615.5  | 615.1 |
| 9.5°  | 612.8 | 613.4 | 612.8 | 613.2 | 614.4 | 613.2  | 612.8 | 613.4  | 612.8 | 613.4  | 612.8 |
| 10°   | 610.6 | 611.1 | 610.5 | 611.0 | 612.2 | 611.0  | 610.5 | 611.1  | 610.6 | 611.1  | 610.5 |
| 10.5° | 608.2 | 608.6 | 608.0 | 608.8 | 609.9 | 608.8  | 608.0 | 608.6  | 608.2 | 608.6  | 608.0 |
| 11°   | 605.6 | 606.0 | 605.4 | 606.4 | 607.5 | 606.4  | 605.4 | 606.0  | 605.6 | 606.0  | 605.4 |
| 11.5° | 603.1 | 603.3 | 602.7 | 604.0 | 605.1 | 604.0  | 602.7 | 603.3  | 603.1 | 603.3  | 602.7 |
| 12°   | 600.4 | 600.5 | 599.9 | 601.5 | 602.5 | 601.5  | 599.9 | 600.5  | 600.4 | 600.5  | 599.9 |
| 12.5° | 597.5 | 597.5 | 597.0 | 598.9 | 599.8 | 598.9  | 597.0 | 597.5  | 597.5 | 597.5  | 597.0 |
| 13°   | 594.7 | 594.6 | 594.1 | 596.2 | 597.1 | 596.2  | 594.1 | 594.6  | 594.7 | 594.6  | 594.1 |
| 13.5° | 591.8 | 591.4 | 591.1 | 593.5 | 594.3 | 593.5  | 591.1 | 591.4  | 591.8 | 591.4  | 591.1 |
| 14°   | 588.8 | 588.3 | 588.0 | 590.5 | 591.3 | 590.5  | 588.0 | 588.3  | 588.8 | 588.3  | 588.0 |
| 14.5° | 585.8 | 585.0 | 584.8 | 587.5 | 588.4 | 587.5  | 584.8 | 585.0  | 585.8 | 585.0  | 584.8 |
| 15°   | 582.6 | 581.7 | 581.5 | 584.3 | 585.3 | 584.3  | 581.5 | 581.7  | 582.6 | 581.7  | 581.5 |
| 15.5° | 579.3 | 578.3 | 578.2 | 581.1 | 582.2 | 581.1  | 578.2 | 578.3  | 579.3 | 578.3  | 578.2 |
| 16°   | 576.0 | 574.8 | 574.8 | 577.7 | 578.9 | 577.7  | 574.8 | 574.8  | 576.0 | 574.8  | 574.8 |
| 16.5° | 572.6 | 571.0 | 571.1 | 574.0 | 575.6 | 574.0  | 571.1 | 571.0  | 572.6 | 571.0  | 571.1 |
| 17°   | 569.2 | 567.3 | 567.3 | 570.3 | 572.2 | 570.3  | 567.3 | 567.3  | 569.2 | 567.3  | 567.3 |
| 17.5° | 565.4 | 563.6 | 563.4 | 566.4 | 568.8 | 566.4  | 563.4 | 563.6  | 565.4 | 563.6  | 563.4 |
| 18°   | 561.4 | 559.6 | 559.4 | 562.5 | 565.1 | 562.5  | 559.4 | 559.6  | 561.4 | 559.6  | 559.4 |
| 18.5° | 557.3 | 555.5 | 555.2 | 558.4 | 561.2 | 558.4  | 555.2 | 555.5  | 557.3 | 555.5  | 555.2 |
| 19°   | 553.1 | 551.4 | 550.9 | 554.3 | 557.3 | 554.3  | 550.9 | 551.4  | 553.1 | 551.4  | 550.9 |
| 19.5° | 548.6 | 547.0 | 546.4 | 550.1 | 553.3 | 550.1  | 546.4 | 547.0  | 548.6 | 547.0  | 546.4 |
| 20°   | 544.1 | 542.5 | 541.9 | 545.6 | 548.8 | 545.6  | 541.9 | 542.5  | 544.1 | 542.5  | 541.9 |
| 20.5° | 539.3 | 537.8 | 537.3 | 541.0 | 544.0 | 541.0  | 537.3 | 537.8  | 539.3 | 537.8  | 537.3 |
| 21°   | 534.4 | 533.0 | 532.4 | 536.1 | 539.1 | 536.1  | 532.4 | 533.0  | 534.4 | 533.0  | 532.4 |
| 21.5° | 529.3 | 528.0 | 527.4 | 531.1 | 533.9 | 531.1  | 527.4 | 528.0  | 529.3 | 528.0  | 527.4 |
| 22°   | 524.0 | 522.9 | 522.4 | 525.8 | 528.5 | 525.8  | 522.4 | 522.9  | 524.0 | 522.9  | 522.4 |

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CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 518.4 | 517.6 | 517.4 | 520.6 | 522.8 | 520.6  | 517.4 | 517.6  | 518.4 | 517.6  | 517.4 |
| 23°   | 512.7 | 512.2 | 512.2 | 515.2 | 517.0 | 515.2  | 512.2 | 512.2  | 512.7 | 512.2  | 512.2 |
| 23.5° | 506.9 | 506.7 | 507.0 | 509.6 | 511.1 | 509.6  | 507.0 | 506.7  | 506.9 | 506.7  | 507.0 |
| 24°   | 500.9 | 501.2 | 501.8 | 503.9 | 505.0 | 503.9  | 501.8 | 501.2  | 500.9 | 501.2  | 501.8 |
| 24.5° | 494.9 | 495.5 | 496.4 | 498.2 | 498.7 | 498.2  | 496.4 | 495.5  | 494.9 | 495.5  | 496.4 |
| 25°   | 488.7 | 489.7 | 490.8 | 492.2 | 492.4 | 492.2  | 490.8 | 489.7  | 488.7 | 489.7  | 490.8 |
| 25.5° | 482.4 | 483.9 | 485.2 | 486.2 | 485.8 | 486.2  | 485.2 | 483.9  | 482.4 | 483.9  | 485.2 |
| 26°   | 476.1 | 477.9 | 479.4 | 479.9 | 479.2 | 479.9  | 479.4 | 477.9  | 476.1 | 477.9  | 479.4 |
| 26.5° | 469.5 | 471.8 | 473.3 | 473.6 | 472.3 | 473.6  | 473.3 | 471.8  | 469.5 | 471.8  | 473.3 |
| 27°   | 463.0 | 465.5 | 467.2 | 467.2 | 465.4 | 467.2  | 467.2 | 465.5  | 463.0 | 465.5  | 467.2 |
| 27.5° | 456.3 | 459.0 | 460.8 | 460.6 | 458.4 | 460.6  | 460.8 | 459.0  | 456.3 | 459.0  | 460.8 |
| 28°   | 449.6 | 452.4 | 454.3 | 453.7 | 451.1 | 453.7  | 454.3 | 452.4  | 449.6 | 452.4  | 454.3 |
| 28.5° | 442.4 | 445.6 | 447.5 | 446.8 | 444.0 | 446.8  | 447.5 | 445.6  | 442.4 | 445.6  | 447.5 |
| 29°   | 435.4 | 438.6 | 440.6 | 439.6 | 436.7 | 439.6  | 440.6 | 438.6  | 435.4 | 438.6  | 440.6 |
| 29.5° | 428.1 | 431.4 | 433.5 | 432.3 | 429.3 | 432.3  | 433.5 | 431.4  | 428.1 | 431.4  | 433.5 |
| 30°   | 420.6 | 424.1 | 426.0 | 424.7 | 421.5 | 424.7  | 426.0 | 424.1  | 420.6 | 424.1  | 426.0 |
| 30.5° | 413.3 | 416.6 | 418.4 | 416.9 | 413.8 | 416.9  | 418.4 | 416.6  | 413.3 | 416.6  | 418.4 |
| 31°   | 405.6 | 408.9 | 410.6 | 409.0 | 405.7 | 409.0  | 410.6 | 408.9  | 405.6 | 408.9  | 410.6 |
| 31.5° | 397.9 | 401.1 | 402.5 | 401.0 | 397.7 | 401.0  | 402.5 | 401.1  | 397.9 | 401.1  | 402.5 |
| 32°   | 390.1 | 392.9 | 394.1 | 392.7 | 389.6 | 392.7  | 394.1 | 392.9  | 390.1 | 392.9  | 394.1 |
| 32.5° | 382.3 | 384.9 | 385.7 | 384.4 | 381.4 | 384.4  | 385.7 | 384.9  | 382.3 | 384.9  | 385.7 |
| 33°   | 374.2 | 376.4 | 377.0 | 375.9 | 373.1 | 375.9  | 377.0 | 376.4  | 374.2 | 376.4  | 377.0 |
| 33.5° | 366.4 | 368.0 | 368.2 | 367.2 | 364.8 | 367.2  | 368.2 | 368.0  | 366.4 | 368.0  | 368.2 |
| 34°   | 358.0 | 359.3 | 359.1 | 358.5 | 356.5 | 358.5  | 359.1 | 359.3  | 358.0 | 359.3  | 359.1 |
| 34.5° | 349.7 | 350.6 | 350.1 | 349.5 | 348.0 | 349.5  | 350.1 | 350.6  | 349.7 | 350.6  | 350.1 |
| 35°   | 341.2 | 341.4 | 340.7 | 340.5 | 339.5 | 340.5  | 340.7 | 341.4  | 341.2 | 341.4  | 340.7 |
| 35.5° | 332.6 | 332.4 | 331.3 | 331.4 | 330.9 | 331.4  | 331.3 | 332.4  | 332.6 | 332.4  | 331.3 |
| 36°   | 323.6 | 323.2 | 321.7 | 322.2 | 322.2 | 322.2  | 321.7 | 323.2  | 323.6 | 323.2  | 321.7 |
| 36.5° | 314.7 | 313.9 | 312.2 | 313.0 | 313.5 | 313.0  | 312.2 | 313.9  | 314.7 | 313.9  | 312.2 |
| 37°   | 305.5 | 304.4 | 302.4 | 303.7 | 304.4 | 303.7  | 302.4 | 304.4  | 305.5 | 304.4  | 302.4 |
| 37.5° | 296.1 | 294.9 | 292.7 | 294.4 | 295.0 | 294.4  | 292.7 | 294.9  | 296.1 | 294.9  | 292.7 |
| 38°   | 286.6 | 285.3 | 283.1 | 284.9 | 285.2 | 284.9  | 283.1 | 285.3  | 286.6 | 285.3  | 283.1 |
| 38.5° | 277.1 | 275.7 | 273.4 | 275.3 | 275.6 | 275.3  | 273.4 | 275.7  | 277.1 | 275.7  | 273.4 |
| 39°   | 267.3 | 265.6 | 263.9 | 265.7 | 266.1 | 265.7  | 263.9 | 265.6  | 267.3 | 265.6  | 263.9 |
| 39.5° | 257.3 | 255.9 | 254.4 | 256.1 | 256.6 | 256.1  | 254.4 | 255.9  | 257.3 | 255.9  | 254.4 |
| 40°   | 247.3 | 246.4 | 245.0 | 246.4 | 247.1 | 246.4  | 245.0 | 246.4  | 247.3 | 246.4  | 245.0 |
| 40.5° | 237.4 | 236.9 | 235.6 | 236.7 | 237.6 | 236.7  | 235.6 | 236.9  | 237.4 | 236.9  | 235.6 |
| 41°   | 227.4 | 227.3 | 226.0 | 227.0 | 227.8 | 227.0  | 226.0 | 227.3  | 227.4 | 227.3  | 226.0 |
| 41.5° | 217.4 | 217.7 | 216.5 | 217.4 | 218.0 | 217.4  | 216.5 | 217.7  | 217.4 | 217.7  | 216.5 |
| 42°   | 207.6 | 208.0 | 207.2 | 207.9 | 208.3 | 207.9  | 207.2 | 208.0  | 207.6 | 208.0  | 207.2 |
| 42.5° | 197.9 | 198.4 | 198.0 | 198.7 | 198.6 | 198.7  | 198.0 | 198.4  | 197.9 | 198.4  | 198.0 |
| 43°   | 188.3 | 188.8 | 188.9 | 189.5 | 188.8 | 189.5  | 188.9 | 188.8  | 188.3 | 188.8  | 188.9 |
| 43.5° | 178.9 | 179.4 | 179.8 | 180.3 | 179.1 | 180.3  | 179.8 | 179.4  | 178.9 | 179.4  | 179.8 |
| 44°   | 169.6 | 170.0 | 170.8 | 171.3 | 169.8 | 171.3  | 170.8 | 170.0  | 169.6 | 170.0  | 170.8 |
| 44.5° | 160.3 | 160.9 | 162.1 | 162.6 | 160.7 | 162.6  | 162.1 | 160.9  | 160.3 | 160.9  | 162.1 |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 151.3 | 152.0 | 153.6 | 153.7 | 151.7 | 153.7  | 153.6 | 152.0  | 151.3 | 152.0  | 153.6 |
| 45.5° | 142.4 | 143.4 | 145.1 | 144.9 | 143.0 | 144.9  | 145.1 | 143.4  | 142.4 | 143.4  | 145.1 |
| 46°   | 133.6 | 134.9 | 136.6 | 136.5 | 134.5 | 136.5  | 136.6 | 134.9  | 133.6 | 134.9  | 136.6 |
| 46.5° | 125.2 | 126.6 | 128.2 | 128.2 | 126.3 | 128.2  | 128.2 | 126.6  | 125.2 | 126.6  | 128.2 |
| 47°   | 117.0 | 118.5 | 120.1 | 120.1 | 118.3 | 120.1  | 120.1 | 118.5  | 117.0 | 118.5  | 120.1 |
| 47.5° | 109.1 | 110.6 | 112.0 | 112.3 | 110.6 | 112.3  | 112.0 | 110.6  | 109.1 | 110.6  | 112.0 |
| 48°   | 101.4 | 102.9 | 104.2 | 104.5 | 103.1 | 104.5  | 104.2 | 102.9  | 101.4 | 102.9  | 104.2 |
| 48.5° | 94.1  | 95.5  | 96.6  | 97.1  | 95.9  | 97.1   | 96.6  | 95.5   | 94.1  | 95.5   | 96.6  |
| 49°   | 87.2  | 88.4  | 89.2  | 89.9  | 89.0  | 89.9   | 89.2  | 88.4   | 87.2  | 88.4   | 89.2  |
| 49.5° | 80.8  | 81.7  | 82.4  | 83.1  | 82.5  | 83.1   | 82.4  | 81.7   | 80.8  | 81.7   | 82.4  |
| 50°   | 74.5  | 75.2  | 75.8  | 76.6  | 76.3  | 76.6   | 75.8  | 75.2   | 74.5  | 75.2   | 75.8  |
| 50.5° | 68.4  | 68.9  | 69.3  | 70.3  | 70.3  | 70.3   | 69.3  | 68.9   | 68.4  | 68.9   | 69.3  |
| 51°   | 62.5  | 62.7  | 63.0  | 64.1  | 64.4  | 64.1   | 63.0  | 62.7   | 62.5  | 62.7   | 63.0  |
| 51.5° | 57.2  | 56.9  | 56.9  | 58.3  | 58.7  | 58.3   | 56.9  | 56.9   | 57.2  | 56.9   | 56.9  |
| 52°   | 52.1  | 51.6  | 51.2  | 52.7  | 53.1  | 52.7   | 51.2  | 51.6   | 52.1  | 51.6   | 51.2  |
| 52.5° | 47.3  | 46.7  | 46.1  | 47.6  | 48.0  | 47.6   | 46.1  | 46.7   | 47.3  | 46.7   | 46.1  |
| 53°   | 42.8  | 42.0  | 41.3  | 42.9  | 43.3  | 42.9   | 41.3  | 42.0   | 42.8  | 42.0   | 41.3  |
| 53.5° | 38.6  | 37.8  | 37.0  | 38.5  | 38.7  | 38.5   | 37.0  | 37.8   | 38.6  | 37.8   | 37.0  |
| 54°   | 34.5  | 33.8  | 33.1  | 34.3  | 34.5  | 34.3   | 33.1  | 33.8   | 34.5  | 33.8   | 33.1  |
| 54.5° | 30.8  | 30.0  | 29.4  | 30.4  | 30.6  | 30.4   | 29.4  | 30.0   | 30.8  | 30.0   | 29.4  |
| 55°   | 27.2  | 26.6  | 26.1  | 26.8  | 27.0  | 26.8   | 26.1  | 26.6   | 27.2  | 26.6   | 26.1  |
| 55.5° | 23.9  | 23.4  | 23.0  | 23.5  | 23.5  | 23.5   | 23.0  | 23.4   | 23.9  | 23.4   | 23.0  |
| 56°   | 20.9  | 20.6  | 20.2  | 20.5  | 20.5  | 20.5   | 20.2  | 20.6   | 20.9  | 20.6   | 20.2  |
| 56.5° | 18.1  | 18.0  | 17.5  | 17.7  | 17.7  | 17.7   | 17.5  | 18.0   | 18.1  | 18.0   | 17.5  |
| 57°   | 15.5  | 15.4  | 14.9  | 15.0  | 15.1  | 15.0   | 14.9  | 15.4   | 15.5  | 15.4   | 14.9  |
| 57.5° | 12.9  | 12.9  | 12.3  | 12.3  | 12.5  | 12.3   | 12.3  | 12.9   | 12.9  | 12.9   | 12.3  |
| 58°   | 10.3  | 10.4  | 10.0  | 9.9   | 9.8   | 9.9    | 10.0  | 10.4   | 10.3  | 10.4   | 10.0  |
| 58.5° | 8.0   | 8.1   | 7.5   | 7.6   | 7.5   | 7.6    | 7.5   | 8.1    | 8.0   | 8.1    | 7.5   |
| 59°   | 5.6   | 5.8   | 5.2   | 5.2   | 5.2   | 5.2    | 5.2   | 5.8    | 5.6   | 5.8    | 5.2   |
| 59.5° | 3.9   | 3.9   | 3.3   | 3.3   | 3.5   | 3.3    | 3.3   | 3.9    | 3.9   | 3.9    | 3.3   |
| 60°   | 2.7   | 2.6   | 2.2   | 2.0   | 2.2   | 2.0    | 2.2   | 2.6    | 2.7   | 2.6    | 2.2   |
| 60.5° | 1.7   | 1.8   | 1.5   | 1.3   | 1.8   | 1.3    | 1.5   | 1.8    | 1.7   | 1.8    | 1.5   |
| 61°   | 1.4   | 1.5   | 1.1   | 1.1   | 1.4   | 1.1    | 1.1   | 1.5    | 1.4   | 1.5    | 1.1   |
| 61.5° | 1.1   | 1.2   | 0.8   | 0.8   | 1.1   | 0.8    | 0.8   | 1.2    | 1.1   | 1.2    | 0.8   |
| 62°   | 0.9   | 0.9   | 0.7   | 0.6   | 0.8   | 0.6    | 0.7   | 0.9    | 0.9   | 0.9    | 0.7   |
| 62.5° | 0.6   | 0.7   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.7    | 0.6   | 0.7    | 0.5   |
| 63°   | 0.5   | 0.5   | 0.5   | 0.4   | 0.4   | 0.4    | 0.5   | 0.5    | 0.5   | 0.5    | 0.5   |
| 63.5° | 0.5   | 0.4   | 0.4   | 0.4   | 0.3   | 0.4    | 0.4   | 0.4    | 0.5   | 0.4    | 0.4   |
| 64°   | 0.4   | 0.4   | 0.3   | 0.3   | 0.3   | 0.3    | 0.3   | 0.4    | 0.4   | 0.4    | 0.3   |
| 64.5° | 0.4   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3    | 0.3   | 0.3    | 0.4   | 0.3    | 0.3   |
| 65°   | 0.3   | 0.3   | 0.3   | 0.2   | 0.2   | 0.2    | 0.3   | 0.3    | 0.3   | 0.3    | 0.3   |
| 65.5° | 0.3   | 0.3   | 0.2   | 0.2   | 0.2   | 0.2    | 0.2   | 0.3    | 0.3   | 0.3    | 0.2   |
| 66°   | 0.3   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2    | 0.2   | 0.2    | 0.3   | 0.2    | 0.2   |
| 66.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2    | 0.2   | 0.2    | 0.2   | 0.2    | 0.2   |
| 67°   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1    | 0.2   | 0.2    | 0.2   | 0.2    | 0.2   |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 68°   | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 68.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 69°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 69.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 70°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 70.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 71°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.0 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 71.5° | 0.1 | 0.1   | 0.1 | 0.0   | 0.0 | 0.0    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 72°   | 0.1 | 0.1   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.1    | 0.1  | 0.1    | 0.0  |
| 72.5° | 0.1 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.1  | 0.0    | 0.0  |
| 73°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 73.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 74°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 74.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 100°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 100.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 105°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 105.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 110°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 110.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 112°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 123°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 123.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 124°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 124.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 126°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.0 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 130°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 130.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 131°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 131.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 132°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 132.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 133°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 133.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 134°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 134.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 135.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 136°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 136.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 137°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 137.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 138°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 138.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 139°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 139.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 140°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 140.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 141°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 141.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 142°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 142.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 143°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 143.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 144°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 144.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 145°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 145.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 146°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 146.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 147°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 147.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 148°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 148.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 149°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 149.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 150°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 150.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 151°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 151.5° | 0.3 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.3  | 0.2    | 0.2  |
| 152°   | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 152.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.2 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 153°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 153.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 154°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 154.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 155°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 155.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 156°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 156.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 157°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 157.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 158°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 158.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 159°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 159.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 160°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 160.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 161°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 161.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 162°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 162.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 163°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 163.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 164°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 164.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 165°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 165.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 166°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 166.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 167°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 167.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 168°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 168.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 169°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 169.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 170°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 170.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 171°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 171.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 172°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 172.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 173°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 173.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 174°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 174.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 175°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 175.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 176°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 176.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 177°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 177.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 178°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 178.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 179°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 179.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |



TEST NUMBER: P1590627  
CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

CANDELA DISTRIBUTION (continued):

|      | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 632.9  | 632.9 | 632.9  | 632.9 | 632.9  | 632.9 |
| 0.5°  | 633.0  | 632.8 | 633.0  | 633.0 | 632.7  | 632.6 |
| 1°    | 632.8  | 632.7 | 632.8  | 632.9 | 632.5  | 632.5 |
| 1.5°  | 632.7  | 632.5 | 632.7  | 632.6 | 632.3  | 632.1 |
| 2°    | 632.4  | 632.3 | 632.4  | 632.3 | 631.9  | 631.8 |
| 2.5°  | 632.0  | 632.0 | 632.0  | 631.8 | 631.5  | 631.3 |
| 3°    | 631.5  | 631.7 | 631.5  | 631.3 | 630.9  | 630.7 |
| 3.5°  | 630.9  | 631.1 | 630.9  | 630.6 | 630.2  | 630.0 |
| 4°    | 630.2  | 630.6 | 630.2  | 629.8 | 629.5  | 629.2 |
| 4.5°  | 629.4  | 629.8 | 629.4  | 629.0 | 628.6  | 628.4 |
| 5°    | 628.4  | 628.9 | 628.4  | 628.0 | 627.6  | 627.4 |
| 5.5°  | 627.2  | 627.8 | 627.2  | 626.8 | 626.5  | 626.3 |
| 6°    | 625.9  | 626.6 | 625.9  | 625.5 | 625.3  | 625.0 |
| 6.5°  | 624.4  | 625.2 | 624.4  | 624.1 | 624.0  | 623.7 |
| 7°    | 622.8  | 623.7 | 622.8  | 622.5 | 622.6  | 622.3 |
| 7.5°  | 621.1  | 622.0 | 621.1  | 620.8 | 621.0  | 620.7 |
| 8°    | 619.3  | 620.3 | 619.3  | 619.1 | 619.3  | 618.9 |
| 8.5°  | 617.3  | 618.4 | 617.3  | 617.1 | 617.5  | 617.0 |
| 9°    | 615.3  | 616.4 | 615.3  | 615.1 | 615.5  | 615.0 |
| 9.5°  | 613.2  | 614.4 | 613.2  | 612.8 | 613.4  | 612.8 |
| 10°   | 611.0  | 612.2 | 611.0  | 610.5 | 611.1  | 610.6 |
| 10.5° | 608.8  | 609.9 | 608.8  | 608.0 | 608.6  | 608.2 |
| 11°   | 606.4  | 607.5 | 606.4  | 605.4 | 606.0  | 605.6 |
| 11.5° | 604.0  | 605.1 | 604.0  | 602.7 | 603.3  | 603.1 |
| 12°   | 601.5  | 602.5 | 601.5  | 599.9 | 600.5  | 600.4 |
| 12.5° | 598.9  | 599.8 | 598.9  | 597.0 | 597.5  | 597.5 |
| 13°   | 596.2  | 597.1 | 596.2  | 594.1 | 594.6  | 594.7 |
| 13.5° | 593.5  | 594.3 | 593.5  | 591.1 | 591.4  | 591.8 |
| 14°   | 590.5  | 591.3 | 590.5  | 588.0 | 588.3  | 588.8 |
| 14.5° | 587.5  | 588.4 | 587.5  | 584.8 | 585.0  | 585.8 |
| 15°   | 584.3  | 585.3 | 584.3  | 581.5 | 581.7  | 582.6 |
| 15.5° | 581.1  | 582.2 | 581.1  | 578.2 | 578.3  | 579.3 |
| 16°   | 577.7  | 578.9 | 577.7  | 574.8 | 574.8  | 576.0 |
| 16.5° | 574.0  | 575.6 | 574.0  | 571.1 | 571.0  | 572.6 |
| 17°   | 570.3  | 572.2 | 570.3  | 567.3 | 567.3  | 569.2 |
| 17.5° | 566.4  | 568.8 | 566.4  | 563.4 | 563.6  | 565.4 |
| 18°   | 562.5  | 565.1 | 562.5  | 559.4 | 559.6  | 561.4 |
| 18.5° | 558.4  | 561.2 | 558.4  | 555.2 | 555.5  | 557.3 |
| 19°   | 554.3  | 557.3 | 554.3  | 550.9 | 551.4  | 553.1 |
| 19.5° | 550.1  | 553.3 | 550.1  | 546.4 | 547.0  | 548.6 |
| 20°   | 545.6  | 548.8 | 545.6  | 541.9 | 542.5  | 544.1 |
| 20.5° | 541.0  | 544.0 | 541.0  | 537.3 | 537.8  | 539.3 |
| 21°   | 536.1  | 539.1 | 536.1  | 532.4 | 533.0  | 534.4 |
| 21.5° | 531.1  | 533.9 | 531.1  | 527.4 | 528.0  | 529.3 |
| 22°   | 525.8  | 528.5 | 525.8  | 522.4 | 522.9  | 524.0 |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 520.6  | 522.8 | 520.6  | 517.4 | 517.6  | 518.4 |
| 23°   | 515.2  | 517.0 | 515.2  | 512.2 | 512.2  | 512.7 |
| 23.5° | 509.6  | 511.1 | 509.6  | 507.0 | 506.7  | 506.9 |
| 24°   | 503.9  | 505.0 | 503.9  | 501.8 | 501.2  | 500.9 |
| 24.5° | 498.2  | 498.7 | 498.2  | 496.4 | 495.5  | 494.9 |
| 25°   | 492.2  | 492.4 | 492.2  | 490.8 | 489.7  | 488.7 |
| 25.5° | 486.2  | 485.8 | 486.2  | 485.2 | 483.9  | 482.4 |
| 26°   | 479.9  | 479.2 | 479.9  | 479.4 | 477.9  | 476.1 |
| 26.5° | 473.6  | 472.3 | 473.6  | 473.3 | 471.8  | 469.5 |
| 27°   | 467.2  | 465.4 | 467.2  | 467.2 | 465.5  | 463.0 |
| 27.5° | 460.6  | 458.4 | 460.6  | 460.8 | 459.0  | 456.3 |
| 28°   | 453.7  | 451.1 | 453.7  | 454.3 | 452.4  | 449.6 |
| 28.5° | 446.8  | 444.0 | 446.8  | 447.5 | 445.6  | 442.4 |
| 29°   | 439.6  | 436.7 | 439.6  | 440.6 | 438.6  | 435.4 |
| 29.5° | 432.3  | 429.3 | 432.3  | 433.5 | 431.4  | 428.1 |
| 30°   | 424.7  | 421.5 | 424.7  | 426.0 | 424.1  | 420.6 |
| 30.5° | 416.9  | 413.8 | 416.9  | 418.4 | 416.6  | 413.3 |
| 31°   | 409.0  | 405.7 | 409.0  | 410.6 | 408.9  | 405.6 |
| 31.5° | 401.0  | 397.7 | 401.0  | 402.5 | 401.1  | 397.9 |
| 32°   | 392.7  | 389.6 | 392.7  | 394.1 | 392.9  | 390.1 |
| 32.5° | 384.4  | 381.4 | 384.4  | 385.7 | 384.9  | 382.3 |
| 33°   | 375.9  | 373.1 | 375.9  | 377.0 | 376.4  | 374.2 |
| 33.5° | 367.2  | 364.8 | 367.2  | 368.2 | 368.0  | 366.4 |
| 34°   | 358.5  | 356.5 | 358.5  | 359.1 | 359.3  | 358.0 |
| 34.5° | 349.5  | 348.0 | 349.5  | 350.1 | 350.6  | 349.7 |
| 35°   | 340.5  | 339.5 | 340.5  | 340.7 | 341.4  | 341.2 |
| 35.5° | 331.4  | 330.9 | 331.4  | 331.3 | 332.4  | 332.6 |
| 36°   | 322.2  | 322.2 | 322.2  | 321.7 | 323.2  | 323.6 |
| 36.5° | 313.0  | 313.5 | 313.0  | 312.2 | 313.9  | 314.7 |
| 37°   | 303.7  | 304.4 | 303.7  | 302.4 | 304.4  | 305.5 |
| 37.5° | 294.4  | 295.0 | 294.4  | 292.7 | 294.9  | 296.1 |
| 38°   | 284.9  | 285.2 | 284.9  | 283.1 | 285.3  | 286.6 |
| 38.5° | 275.3  | 275.6 | 275.3  | 273.4 | 275.7  | 277.1 |
| 39°   | 265.7  | 266.1 | 265.7  | 263.9 | 265.6  | 267.3 |
| 39.5° | 256.1  | 256.6 | 256.1  | 254.4 | 255.9  | 257.3 |
| 40°   | 246.4  | 247.1 | 246.4  | 245.0 | 246.4  | 247.3 |
| 40.5° | 236.7  | 237.6 | 236.7  | 235.6 | 236.9  | 237.4 |
| 41°   | 227.0  | 227.8 | 227.0  | 226.0 | 227.3  | 227.4 |
| 41.5° | 217.4  | 218.0 | 217.4  | 216.5 | 217.7  | 217.4 |
| 42°   | 207.9  | 208.3 | 207.9  | 207.2 | 208.0  | 207.6 |
| 42.5° | 198.7  | 198.6 | 198.7  | 198.0 | 198.4  | 197.9 |
| 43°   | 189.5  | 188.8 | 189.5  | 188.9 | 188.8  | 188.3 |
| 43.5° | 180.3  | 179.1 | 180.3  | 179.8 | 179.4  | 178.9 |
| 44°   | 171.3  | 169.8 | 171.3  | 170.8 | 170.0  | 169.6 |
| 44.5° | 162.6  | 160.7 | 162.6  | 162.1 | 160.9  | 160.3 |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 153.7  | 151.7 | 153.7  | 153.6 | 152.0  | 151.3 |
| 45.5° | 144.9  | 143.0 | 144.9  | 145.1 | 143.4  | 142.4 |
| 46°   | 136.5  | 134.5 | 136.5  | 136.6 | 134.9  | 133.6 |
| 46.5° | 128.2  | 126.3 | 128.2  | 128.2 | 126.6  | 125.2 |
| 47°   | 120.1  | 118.3 | 120.1  | 120.1 | 118.5  | 117.0 |
| 47.5° | 112.3  | 110.6 | 112.3  | 112.0 | 110.6  | 109.1 |
| 48°   | 104.5  | 103.1 | 104.5  | 104.2 | 102.9  | 101.4 |
| 48.5° | 97.1   | 95.9  | 97.1   | 96.6  | 95.5   | 94.1  |
| 49°   | 89.9   | 89.0  | 89.9   | 89.2  | 88.4   | 87.2  |
| 49.5° | 83.1   | 82.5  | 83.1   | 82.4  | 81.7   | 80.8  |
| 50°   | 76.6   | 76.3  | 76.6   | 75.8  | 75.2   | 74.5  |
| 50.5° | 70.3   | 70.3  | 70.3   | 69.3  | 68.9   | 68.4  |
| 51°   | 64.1   | 64.4  | 64.1   | 63.0  | 62.7   | 62.5  |
| 51.5° | 58.3   | 58.7  | 58.3   | 56.9  | 56.9   | 57.2  |
| 52°   | 52.7   | 53.1  | 52.7   | 51.2  | 51.6   | 52.1  |
| 52.5° | 47.6   | 48.0  | 47.6   | 46.1  | 46.7   | 47.3  |
| 53°   | 42.9   | 43.3  | 42.9   | 41.3  | 42.0   | 42.8  |
| 53.5° | 38.5   | 38.7  | 38.5   | 37.0  | 37.8   | 38.6  |
| 54°   | 34.3   | 34.5  | 34.3   | 33.1  | 33.8   | 34.5  |
| 54.5° | 30.4   | 30.6  | 30.4   | 29.4  | 30.0   | 30.8  |
| 55°   | 26.8   | 27.0  | 26.8   | 26.1  | 26.6   | 27.2  |
| 55.5° | 23.5   | 23.5  | 23.5   | 23.0  | 23.4   | 23.9  |
| 56°   | 20.5   | 20.5  | 20.5   | 20.2  | 20.6   | 20.9  |
| 56.5° | 17.7   | 17.7  | 17.7   | 17.5  | 18.0   | 18.1  |
| 57°   | 15.0   | 15.1  | 15.0   | 14.9  | 15.4   | 15.5  |
| 57.5° | 12.3   | 12.5  | 12.3   | 12.3  | 12.9   | 12.9  |
| 58°   | 9.9    | 9.8   | 9.9    | 10.0  | 10.4   | 10.3  |
| 58.5° | 7.6    | 7.5   | 7.6    | 7.5   | 8.1    | 8.0   |
| 59°   | 5.2    | 5.2   | 5.2    | 5.2   | 5.8    | 5.6   |
| 59.5° | 3.3    | 3.5   | 3.3    | 3.3   | 3.9    | 3.9   |
| 60°   | 2.0    | 2.2   | 2.0    | 2.2   | 2.6    | 2.7   |
| 60.5° | 1.3    | 1.8   | 1.3    | 1.5   | 1.8    | 1.7   |
| 61°   | 1.1    | 1.4   | 1.1    | 1.1   | 1.5    | 1.4   |
| 61.5° | 0.8    | 1.1   | 0.8    | 0.8   | 1.2    | 1.1   |
| 62°   | 0.6    | 0.8   | 0.6    | 0.7   | 0.9    | 0.9   |
| 62.5° | 0.5    | 0.5   | 0.5    | 0.5   | 0.7    | 0.6   |
| 63°   | 0.4    | 0.4   | 0.4    | 0.5   | 0.5    | 0.5   |
| 63.5° | 0.4    | 0.3   | 0.4    | 0.4   | 0.4    | 0.5   |
| 64°   | 0.3    | 0.3   | 0.3    | 0.3   | 0.4    | 0.4   |
| 64.5° | 0.3    | 0.3   | 0.3    | 0.3   | 0.3    | 0.4   |
| 65°   | 0.2    | 0.2   | 0.2    | 0.3   | 0.3    | 0.3   |
| 65.5° | 0.2    | 0.2   | 0.2    | 0.2   | 0.3    | 0.3   |
| 66°   | 0.2    | 0.2   | 0.2    | 0.2   | 0.2    | 0.3   |
| 66.5° | 0.2    | 0.2   | 0.2    | 0.2   | 0.2    | 0.2   |
| 67°   | 0.1    | 0.1   | 0.1    | 0.2   | 0.2    | 0.2   |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.2    | 0.2  |
| 68°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.2    | 0.2  |
| 68.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 69°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 69.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 70°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 70.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 71°   | 0.1    | 0.0  | 0.1    | 0.1  | 0.1    | 0.1  |
| 71.5° | 0.0    | 0.0  | 0.0    | 0.1  | 0.1    | 0.1  |
| 72°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.1    | 0.1  |
| 72.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.1  |
| 73°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 73.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 74°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 74.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 100°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 100.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 105°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 105.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 110°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 110.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 112°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 123°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 123.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 124°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 124.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 126°   | 0.1    | 0.0  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 130°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 130.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 131°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 131.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 132°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 132.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 133°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 133.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 134°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 134.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 135.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 136°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 136.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 137°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 137.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 138°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 138.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 139°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 139.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 140°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 140.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 141°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 141.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 142°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 142.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 143°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 143.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 144°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 144.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 145°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 145.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 146°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 146.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 147°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 147.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 148°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 148.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 149°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 149.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 150°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 150.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 151°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 151.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.3  |
| 152°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 152.5° | 0.3    | 0.2  | 0.3    | 0.3  | 0.3    | 0.3  |
| 153°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 153.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 154°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 154.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 155°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 155.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 156°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 156.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 157°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 157.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 158°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 158.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 159°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 159.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 160°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 160.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 161°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 161.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 162°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 162.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 163°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 163.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 164°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 164.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 165°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 165.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 166°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 166.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 167°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 167.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 168°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 168.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 169°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 169.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 170°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 170.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 171°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 171.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 172°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 172.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 173°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 173.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 174°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 174.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 175°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 175.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 176°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 176.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 177°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 177.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 178°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 178.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 179°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 179.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |



TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |

TEST NUMBER: P1590627

CATALOG NUMBER: HCDLS510CSD6TRMW-ME-2700K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |     |     |     |     |                |     |     |     |     |
|-----------------|------|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| Ceiling         |      | 0.7              | 0.7 | 0.5 | 0.5 | 0.3 | 0.7            | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall            |      | 0.5              | 0.3 | 0.5 | 0.3 | 0.3 | 0.5            | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane |      | 0.2              | 0.2 | 0.2 | 0.2 | 0.2 | 0.2            | 0.2 | 0.2 | 0.2 | 0.2 |
| Room Dimensions |      | Viewed crosswise |     |     |     |     | Viewed endwise |     |     |     |     |
| X=2H            | Y=2H | 5.2              | 6.3 | 5.6 | 6.6 | 6.9 | 4.9            | 6.0 | 5.2 | 6.3 | 6.6 |
|                 | 3H   | 5.0              | 6.0 | 5.4 | 6.3 | 6.7 | 4.7            | 5.7 | 5.1 | 6.0 | 6.4 |
|                 | 4H   | 4.9              | 5.8 | 5.3 | 6.2 | 6.6 | 4.6            | 5.5 | 5.0 | 5.9 | 6.3 |
|                 | 6H   | 4.8              | 5.7 | 5.2 | 6.0 | 6.4 | 4.5            | 5.3 | 4.9 | 5.7 | 6.1 |
|                 | 8H   | 4.8              | 5.6 | 5.2 | 5.9 | 6.4 | 4.5            | 5.2 | 4.9 | 5.6 | 6.0 |
|                 | 12H  | 4.7              | 5.5 | 5.2 | 5.8 | 6.3 | 4.4            | 5.1 | 4.8 | 5.5 | 6.0 |
| 4H              | 2H   | 4.9              | 5.8 | 5.3 | 6.2 | 6.6 | 4.6            | 5.5 | 5.0 | 5.9 | 6.3 |
|                 | 3H   | 4.7              | 5.5 | 5.2 | 5.9 | 6.3 | 4.4            | 5.2 | 4.8 | 5.6 | 6.0 |
|                 | 4H   | 4.6              | 5.3 | 5.1 | 5.7 | 6.2 | 4.3            | 5.0 | 4.8 | 5.4 | 5.8 |
|                 | 6H   | 4.5              | 5.1 | 5.0 | 5.5 | 6.0 | 4.2            | 4.8 | 4.7 | 5.2 | 5.7 |
|                 | 8H   | 4.5              | 5.0 | 4.9 | 5.4 | 5.9 | 4.1            | 4.7 | 4.6 | 5.1 | 5.6 |
|                 | 12H  | 4.4              | 4.9 | 4.9 | 5.3 | 5.8 | 4.1            | 4.5 | 4.6 | 5.0 | 5.5 |
| 8H              | 4H   | 4.5              | 5.0 | 4.9 | 5.4 | 5.9 | 4.1            | 4.7 | 4.6 | 5.1 | 5.6 |
|                 | 6H   | 4.3              | 4.8 | 4.9 | 5.3 | 5.8 | 4.0            | 4.4 | 4.5 | 4.9 | 5.4 |
|                 | 8H   | 4.3              | 4.6 | 4.8 | 5.2 | 5.7 | 4.0            | 4.3 | 4.5 | 4.8 | 5.3 |
|                 | 12H  | 4.2              | 4.5 | 4.7 | 5.0 | 5.6 | 3.9            | 4.2 | 4.4 | 4.7 | 5.3 |
| 12H             | 4H   | 4.4              | 4.9 | 4.9 | 5.3 | 5.8 | 4.1            | 4.5 | 4.6 | 5.0 | 5.5 |
|                 | 6H   | 4.3              | 4.7 | 4.8 | 5.1 | 5.7 | 4.0            | 4.3 | 4.5 | 4.8 | 5.4 |
|                 | 8H   | 4.2              | 4.5 | 4.7 | 5.0 | 5.6 | 3.9            | 4.2 | 4.4 | 4.7 | 5.3 |















































(END OF REPORT)