

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: METALUX

Report Number: P973031

Luminaire Tested: 24CGRK-L3C3-UNV-MP4-LOW-3500K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DLF2412105-2a)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGRK-L3C3-UNV-MP4-LOW-3500K
Description: 2x4 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 3500K CCT settings
Light Source: -
Ballast/Driver: -

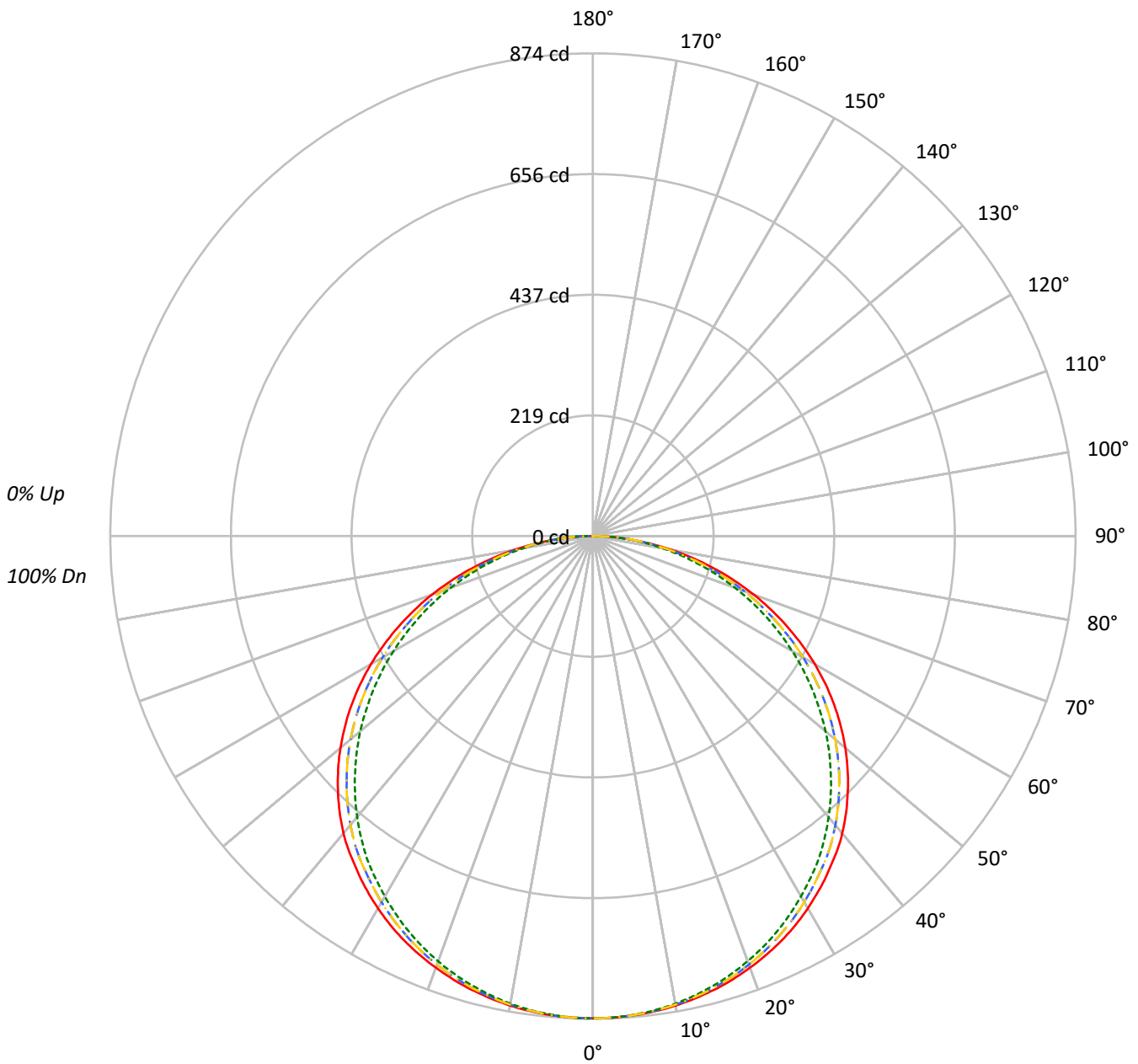
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.28 / 1.43
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.7
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: 24 FT

TEST NUMBER: P973031
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

Luminous Intensity Polar Plot



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



TEST NUMBER: P973031

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-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 | 102 | 102 | 102 | 100 |
| 1 | 108 | 103 | 98 | 94 | 105 | 101 | 96 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 87 | 84 | 84 | 84 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 71 | 77 | 73 | 70 | 70 | 70 | 70 | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 59 | 59 | 59 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 | 50 | 50 | 50 | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 43 | 43 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 43 | 38 | 38 | 38 | 38 | 36 |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 33 | 33 | 33 | 31 |
| 8 | 59 | 45 | 36 | 31 | 57 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 30 | 30 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 27 | 27 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 24 | 24 | 24 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 1337 | 1337 | 1337 | 1337 |
| 5° | 1339 | 1337 | 1339 | 1337 |
| 10° | 1342 | 1337 | 1342 | 1337 |
| 15° | 1348 | 1336 | 1348 | 1336 |
| 20° | 1356 | 1335 | 1356 | 1335 |
| 25° | 1366 | 1334 | 1366 | 1334 |
| 30° | 1377 | 1333 | 1377 | 1333 |
| 35° | 1388 | 1333 | 1388 | 1333 |
| 40° | 1404 | 1328 | 1404 | 1328 |
| 45° | 1414 | 1319 | 1414 | 1319 |
| 50° | 1422 | 1310 | 1422 | 1310 |
| 55° | 1425 | 1296 | 1425 | 1296 |
| 60° | 1421 | 1277 | 1421 | 1277 |
| 65° | 1409 | 1255 | 1409 | 1255 |
| 70° | 1388 | 1227 | 1388 | 1227 |
| 75° | 1348 | 1189 | 1348 | 1189 |
| 80° | 1287 | 1140 | 1287 | 1140 |
| 85° | 1165 | 1130 | 1165 | 1130 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 89°
 Luminance: 1703 cd/sqm



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.8 | 3.0 |
| 10°-20° | 239.1 | 8.7 |
| 20°-30° | 368.4 | 13.4 |
| 30°-40° | 455.3 | 16.6 |
| 40°-50° | 486.7 | 17.7 |
| 50°-60° | 454.8 | 16.5 |
| 60°-70° | 363.1 | 13.2 |
| 70°-80° | 226.1 | 8.2 |
| 80°-90° | 73.6 | 2.7 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 690.3 | 25.1 |
| 0°-40° | 1145.7 | 41.7 |
| 0°-60° | 2087.2 | 75.9 |
| 0°-90° | 2750.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2750.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 873 | 873 | 873 | 873 | 873 | |
| 5° | 871 | 870 | 871 | 870 | 871 | 83 |
| 15° | 850 | 843 | 850 | 843 | 850 | 240 |
| 25° | 808 | 790 | 808 | 790 | 808 | 373 |
| 35° | 743 | 713 | 743 | 713 | 743 | 465 |
| 45° | 653 | 609 | 653 | 609 | 653 | 504 |
| 55° | 534 | 485 | 534 | 485 | 534 | 477 |
| 65° | 389 | 346 | 389 | 346 | 389 | 384 |
| 75° | 228 | 201 | 228 | 201 | 228 | 240 |
| 85° | 66 | 64 | 66 | 64 | 66 | 71 |
| 90° | 0 | 0 | 0 | 0 | 0 | 5 |
| 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: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 |
| 1° | 873.2 | 873.3 | 873.1 | 873.1 | 873.3 | 873.1 | 873.5 | 873.1 | 873.3 | 873.1 | 873.1 |
| 2° | 872.9 | 873.0 | 872.6 | 872.7 | 873.0 | 872.5 | 872.9 | 872.5 | 873.0 | 872.7 | 872.6 |
| 3° | 872.3 | 872.4 | 872.1 | 872.2 | 872.3 | 871.9 | 871.9 | 871.9 | 872.3 | 872.2 | 872.1 |
| 4° | 871.6 | 871.5 | 871.2 | 871.3 | 871.3 | 871.0 | 871.3 | 871.0 | 871.3 | 871.3 | 871.2 |
| 5° | 870.6 | 870.6 | 870.4 | 870.2 | 870.1 | 869.7 | 869.8 | 869.7 | 870.1 | 870.2 | 870.4 |
| 6° | 869.7 | 869.3 | 869.1 | 868.9 | 868.7 | 868.5 | 868.4 | 868.5 | 868.7 | 868.9 | 869.1 |
| 7° | 868.4 | 867.9 | 867.7 | 867.5 | 866.9 | 866.7 | 866.7 | 866.7 | 866.9 | 867.5 | 867.7 |
| 8° | 866.9 | 866.5 | 866.1 | 865.8 | 865.1 | 864.6 | 864.6 | 864.6 | 865.1 | 865.8 | 866.1 |
| 9° | 865.1 | 864.8 | 864.2 | 863.6 | 862.9 | 862.5 | 862.5 | 862.5 | 862.9 | 863.6 | 864.2 |
| 10° | 863.2 | 862.8 | 862.3 | 861.4 | 860.6 | 860.0 | 859.8 | 860.0 | 860.6 | 861.4 | 862.3 |
| 11° | 860.9 | 860.7 | 859.9 | 859.0 | 858.0 | 857.1 | 856.8 | 857.1 | 858.0 | 859.0 | 859.9 |
| 12° | 858.5 | 858.1 | 857.5 | 856.3 | 855.0 | 854.2 | 853.7 | 854.2 | 855.0 | 856.3 | 857.5 |
| 13° | 855.9 | 855.4 | 854.7 | 853.3 | 851.7 | 851.0 | 850.3 | 851.0 | 851.7 | 853.3 | 854.7 |
| 14° | 852.9 | 852.5 | 851.8 | 850.1 | 848.4 | 847.4 | 846.6 | 847.4 | 848.4 | 850.1 | 851.8 |
| 15° | 850.2 | 849.6 | 848.6 | 846.8 | 844.8 | 843.5 | 842.7 | 843.5 | 844.8 | 846.8 | 848.6 |
| 16° | 847.1 | 846.1 | 845.2 | 843.1 | 840.7 | 839.4 | 838.8 | 839.4 | 840.7 | 843.1 | 845.2 |
| 17° | 843.4 | 842.9 | 841.4 | 839.1 | 836.5 | 835.1 | 834.3 | 835.1 | 836.5 | 839.1 | 841.4 |
| 18° | 839.8 | 839.1 | 837.5 | 834.9 | 832.0 | 830.5 | 829.4 | 830.5 | 832.0 | 834.9 | 837.5 |
| 19° | 835.8 | 835.3 | 833.3 | 830.4 | 827.4 | 825.5 | 824.7 | 825.5 | 827.4 | 830.4 | 833.3 |
| 20° | 831.8 | 830.9 | 828.9 | 825.8 | 822.5 | 820.5 | 819.2 | 820.5 | 822.5 | 825.8 | 828.9 |
| 21° | 827.4 | 826.6 | 824.2 | 820.9 | 817.3 | 815.1 | 813.9 | 815.1 | 817.3 | 820.9 | 824.2 |
| 22° | 822.8 | 821.9 | 819.4 | 815.6 | 812.0 | 809.5 | 808.1 | 809.5 | 812.0 | 815.6 | 819.4 |
| 23° | 818.2 | 817.1 | 814.3 | 810.2 | 806.4 | 803.6 | 802.2 | 803.6 | 806.4 | 810.2 | 814.3 |
| 24° | 813.3 | 812.0 | 808.8 | 804.6 | 800.5 | 797.5 | 796.1 | 797.5 | 800.5 | 804.6 | 808.8 |
| 25° | 808.2 | 806.8 | 803.3 | 798.7 | 794.1 | 790.9 | 789.5 | 790.9 | 794.1 | 798.7 | 803.3 |
| 26° | 802.7 | 801.2 | 797.5 | 792.5 | 788.0 | 784.2 | 782.9 | 784.2 | 788.0 | 792.5 | 797.5 |
| 27° | 797.1 | 795.4 | 791.5 | 786.1 | 781.2 | 777.4 | 775.8 | 777.4 | 781.2 | 786.1 | 791.5 |
| 28° | 791.0 | 789.4 | 785.2 | 779.5 | 774.1 | 770.0 | 768.5 | 770.0 | 774.1 | 779.5 | 785.2 |
| 29° | 784.8 | 783.1 | 778.7 | 772.6 | 767.0 | 762.6 | 761.1 | 762.6 | 767.0 | 772.6 | 778.7 |
| 30° | 778.4 | 776.6 | 771.9 | 765.5 | 759.6 | 754.9 | 753.5 | 754.9 | 759.6 | 765.5 | 771.9 |
| 31° | 771.4 | 769.8 | 764.8 | 758.1 | 751.8 | 747.0 | 745.6 | 747.0 | 751.8 | 758.1 | 764.8 |
| 32° | 764.6 | 762.8 | 757.5 | 750.4 | 744.0 | 738.9 | 737.5 | 738.9 | 744.0 | 750.4 | 757.5 |
| 33° | 757.5 | 755.4 | 750.0 | 742.7 | 735.8 | 731.0 | 729.6 | 731.0 | 735.8 | 742.7 | 750.0 |
| 34° | 750.3 | 747.9 | 742.2 | 734.8 | 728.1 | 723.4 | 721.7 | 723.4 | 728.1 | 734.8 | 742.2 |
| 35° | 742.6 | 740.2 | 734.7 | 727.3 | 720.4 | 715.3 | 713.1 | 715.3 | 720.4 | 727.3 | 734.7 |
| 36° | 734.7 | 732.8 | 727.3 | 719.8 | 711.9 | 706.0 | 703.9 | 706.0 | 711.9 | 719.8 | 727.3 |
| 37° | 727.2 | 725.5 | 719.7 | 711.2 | 702.7 | 696.6 | 694.2 | 696.6 | 702.7 | 711.2 | 719.7 |
| 38° | 719.6 | 717.9 | 711.1 | 702.1 | 693.2 | 686.8 | 684.3 | 686.8 | 693.2 | 702.1 | 711.1 |
| 39° | 711.5 | 708.9 | 702.0 | 692.5 | 683.4 | 676.8 | 674.2 | 676.8 | 683.4 | 692.5 | 702.0 |
| 40° | 702.4 | 699.8 | 692.6 | 683.1 | 673.5 | 666.7 | 664.2 | 666.7 | 673.5 | 683.1 | 692.6 |
| 41° | 693.2 | 690.2 | 683.1 | 673.2 | 663.1 | 656.4 | 653.6 | 656.4 | 663.1 | 673.2 | 683.1 |
| 42° | 683.5 | 680.5 | 673.3 | 662.9 | 652.8 | 645.7 | 642.9 | 645.7 | 652.8 | 662.9 | 673.3 |
| 43° | 673.6 | 670.7 | 663.1 | 652.6 | 642.0 | 634.8 | 631.8 | 634.8 | 642.0 | 652.6 | 663.1 |
| 44° | 663.3 | 660.5 | 652.7 | 642.0 | 631.2 | 623.6 | 620.9 | 623.6 | 631.2 | 642.0 | 652.7 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 45° | 652.9 | 650.0 | 642.0 | 630.8 | 620.0 | 612.4 | 609.1 | 612.4 | 620.0 | 630.8 | 642.0 |
| 46° | 642.3 | 639.3 | 631.1 | 619.7 | 608.8 | 600.9 | 597.9 | 600.9 | 608.8 | 619.7 | 631.1 |
| 47° | 631.1 | 628.1 | 619.7 | 608.3 | 597.1 | 589.2 | 586.1 | 589.2 | 597.1 | 608.3 | 619.7 |
| 48° | 620.1 | 617.0 | 608.3 | 596.7 | 585.5 | 577.2 | 574.2 | 577.2 | 585.5 | 596.7 | 608.3 |
| 49° | 608.6 | 605.3 | 596.5 | 584.7 | 573.4 | 565.1 | 562.2 | 565.1 | 573.4 | 584.7 | 596.5 |
| 50° | 596.8 | 593.4 | 584.6 | 572.7 | 561.2 | 552.9 | 549.9 | 552.9 | 561.2 | 572.7 | 584.6 |
| 51° | 584.6 | 581.3 | 572.4 | 560.3 | 548.7 | 540.4 | 537.2 | 540.4 | 548.7 | 560.3 | 572.4 |
| 52° | 572.2 | 569.0 | 559.9 | 547.8 | 536.1 | 527.7 | 524.4 | 527.7 | 536.1 | 547.8 | 559.9 |
| 53° | 559.7 | 556.4 | 547.1 | 535.0 | 523.3 | 514.7 | 511.5 | 514.7 | 523.3 | 535.0 | 547.1 |
| 54° | 546.8 | 543.4 | 534.2 | 521.9 | 510.2 | 501.6 | 498.4 | 501.6 | 510.2 | 521.9 | 534.2 |
| 55° | 533.6 | 530.2 | 521.1 | 508.8 | 496.9 | 488.4 | 485.4 | 488.4 | 496.9 | 508.8 | 521.1 |
| 56° | 520.2 | 516.9 | 507.6 | 495.4 | 483.6 | 474.9 | 472.1 | 474.9 | 483.6 | 495.4 | 507.6 |
| 57° | 506.5 | 503.1 | 494.0 | 481.8 | 470.0 | 461.5 | 458.4 | 461.5 | 470.0 | 481.8 | 494.0 |
| 58° | 492.6 | 489.2 | 480.1 | 467.9 | 456.3 | 447.8 | 445.0 | 447.8 | 456.3 | 467.9 | 480.1 |
| 59° | 478.4 | 474.9 | 465.9 | 453.9 | 442.2 | 434.0 | 431.1 | 434.0 | 442.2 | 453.9 | 465.9 |
| 60° | 464.0 | 460.6 | 451.8 | 439.9 | 428.2 | 420.0 | 417.0 | 420.0 | 428.2 | 439.9 | 451.8 |
| 61° | 449.3 | 446.2 | 437.3 | 425.5 | 414.1 | 405.9 | 403.0 | 405.9 | 414.1 | 425.5 | 437.3 |
| 62° | 434.4 | 431.4 | 422.6 | 410.9 | 399.8 | 391.8 | 388.9 | 391.8 | 399.8 | 410.9 | 422.6 |
| 63° | 419.2 | 416.2 | 407.7 | 396.4 | 385.2 | 377.4 | 374.7 | 377.4 | 385.2 | 396.4 | 407.7 |
| 64° | 404.1 | 401.0 | 392.8 | 381.5 | 370.7 | 363.1 | 360.4 | 363.1 | 370.7 | 381.5 | 392.8 |
| 65° | 388.8 | 385.6 | 377.6 | 366.6 | 357.0 | 349.0 | 346.4 | 349.0 | 357.0 | 366.6 | 377.6 |
| 66° | 373.1 | 370.0 | 362.2 | 351.6 | 342.3 | 335.1 | 332.3 | 335.1 | 342.3 | 351.6 | 362.2 |
| 67° | 357.8 | 354.5 | 347.2 | 337.1 | 327.5 | 320.5 | 317.8 | 320.5 | 327.5 | 337.1 | 347.2 |
| 68° | 342.1 | 339.0 | 331.9 | 322.3 | 312.5 | 305.8 | 303.3 | 305.8 | 312.5 | 322.3 | 331.9 |
| 69° | 326.3 | 323.6 | 316.4 | 307.0 | 297.5 | 291.1 | 288.6 | 291.1 | 297.5 | 307.0 | 316.4 |
| 70° | 310.0 | 307.4 | 300.6 | 291.5 | 282.5 | 276.3 | 273.9 | 276.3 | 282.5 | 291.5 | 300.6 |
| 71° | 293.8 | 291.3 | 284.7 | 276.1 | 267.4 | 261.5 | 259.1 | 261.5 | 267.4 | 276.1 | 284.7 |
| 72° | 277.4 | 275.1 | 268.8 | 260.6 | 252.4 | 246.8 | 244.5 | 246.8 | 252.4 | 260.6 | 268.8 |
| 73° | 260.8 | 258.7 | 252.8 | 245.0 | 237.3 | 232.0 | 229.9 | 232.0 | 237.3 | 245.0 | 252.8 |
| 74° | 244.4 | 242.4 | 236.9 | 229.6 | 222.3 | 217.2 | 215.4 | 217.2 | 222.3 | 229.6 | 236.9 |
| 75° | 227.8 | 226.0 | 220.9 | 214.1 | 207.2 | 202.6 | 200.9 | 202.6 | 207.2 | 214.1 | 220.9 |
| 76° | 211.3 | 209.5 | 204.9 | 198.5 | 192.3 | 188.0 | 186.3 | 188.0 | 192.3 | 198.5 | 204.9 |
| 77° | 194.8 | 193.3 | 189.0 | 183.2 | 177.5 | 173.4 | 171.9 | 173.4 | 177.5 | 183.2 | 189.0 |
| 78° | 178.4 | 177.0 | 173.2 | 167.8 | 162.6 | 158.9 | 157.5 | 158.9 | 162.6 | 167.8 | 173.2 |
| 79° | 162.2 | 160.9 | 157.4 | 152.6 | 147.9 | 144.6 | 143.3 | 144.6 | 147.9 | 152.6 | 157.4 |
| 80° | 145.9 | 144.8 | 141.7 | 137.5 | 133.3 | 130.6 | 129.2 | 130.6 | 133.3 | 137.5 | 141.7 |
| 81° | 129.5 | 128.8 | 126.3 | 122.6 | 119.0 | 116.7 | 115.7 | 116.7 | 119.0 | 122.6 | 126.3 |
| 82° | 113.4 | 112.8 | 110.9 | 107.9 | 105.0 | 103.2 | 102.4 | 103.2 | 105.0 | 107.9 | 110.9 |
| 83° | 97.4 | 97.0 | 95.8 | 93.6 | 91.4 | 90.1 | 89.5 | 90.1 | 91.4 | 93.6 | 95.8 |
| 84° | 81.8 | 81.5 | 80.7 | 79.6 | 78.1 | 77.2 | 76.7 | 77.2 | 78.1 | 79.6 | 80.7 |
| 85° | 66.3 | 66.2 | 66.0 | 65.8 | 65.3 | 64.7 | 64.3 | 64.7 | 65.3 | 65.8 | 66.0 |
| 86° | 51.7 | 51.7 | 52.3 | 53.0 | 52.9 | 52.5 | 52.1 | 52.5 | 52.9 | 53.0 | 52.3 |
| 87° | 37.7 | 38.0 | 39.5 | 40.6 | 40.9 | 40.4 | 40.0 | 40.4 | 40.9 | 40.6 | 39.5 |
| 88° | 25.5 | 26.3 | 27.8 | 29.1 | 29.7 | 29.3 | 29.2 | 29.3 | 29.7 | 29.1 | 27.8 |
| 89° | 14.9 | 15.9 | 17.3 | 18.4 | 19.4 | 19.3 | 18.9 | 19.3 | 19.4 | 18.4 | 17.3 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 90° | 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 |
| 92° | 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 |
| 94° | 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 |
| 96° | 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 |
| 98° | 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 |
| 100° | 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 |
| 102° | 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 |
| 104° | 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 |
| 106° | 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 |
| 108° | 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 |
| 110° | 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 |
| 112° | 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 |
| 114° | 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 |
| 116° | 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 |
| 118° | 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 |
| 120° | 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 |
| 122° | 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 |
| 124° | 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 |
| 126° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 133° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 134° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 136° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 138° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 139° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 141° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 143° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 144° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 146° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 148° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 149° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 151° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 153° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 154° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 156° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 158° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 159° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 163° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 164° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 166° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 168° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 169° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 171° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 173° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 174° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 176° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 178° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 179° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 |
| 1° | 873.3 | 873.2 | 873.3 | 873.1 | 873.1 | 873.3 | 873.1 | 873.5 | 873.1 | 873.3 | 873.1 |
| 2° | 873.0 | 872.9 | 873.0 | 872.6 | 872.7 | 873.0 | 872.5 | 872.9 | 872.5 | 873.0 | 872.7 |
| 3° | 872.4 | 872.3 | 872.4 | 872.1 | 872.2 | 872.3 | 871.9 | 871.9 | 871.9 | 872.3 | 872.2 |
| 4° | 871.5 | 871.6 | 871.5 | 871.2 | 871.3 | 871.3 | 871.0 | 871.3 | 871.0 | 871.3 | 871.3 |
| 5° | 870.6 | 870.6 | 870.6 | 870.4 | 870.2 | 870.1 | 869.7 | 869.8 | 869.7 | 870.1 | 870.2 |
| 6° | 869.3 | 869.7 | 869.3 | 869.1 | 868.9 | 868.7 | 868.5 | 868.4 | 868.5 | 868.7 | 868.9 |
| 7° | 867.9 | 868.4 | 867.9 | 867.7 | 867.5 | 866.9 | 866.7 | 866.7 | 866.7 | 866.9 | 867.5 |
| 8° | 866.5 | 866.9 | 866.5 | 866.1 | 865.8 | 865.1 | 864.6 | 864.6 | 864.6 | 865.1 | 865.8 |
| 9° | 864.8 | 865.1 | 864.8 | 864.2 | 863.6 | 862.9 | 862.5 | 862.5 | 862.5 | 862.9 | 863.6 |
| 10° | 862.8 | 863.2 | 862.8 | 862.3 | 861.4 | 860.6 | 860.0 | 859.8 | 860.0 | 860.6 | 861.4 |
| 11° | 860.7 | 860.9 | 860.7 | 859.9 | 859.0 | 858.0 | 857.1 | 856.8 | 857.1 | 858.0 | 859.0 |
| 12° | 858.1 | 858.5 | 858.1 | 857.5 | 856.3 | 855.0 | 854.2 | 853.7 | 854.2 | 855.0 | 856.3 |
| 13° | 855.4 | 855.9 | 855.4 | 854.7 | 853.3 | 851.7 | 851.0 | 850.3 | 851.0 | 851.7 | 853.3 |
| 14° | 852.5 | 852.9 | 852.5 | 851.8 | 850.1 | 848.4 | 847.4 | 846.6 | 847.4 | 848.4 | 850.1 |
| 15° | 849.6 | 850.2 | 849.6 | 848.6 | 846.8 | 844.8 | 843.5 | 842.7 | 843.5 | 844.8 | 846.8 |
| 16° | 846.1 | 847.1 | 846.1 | 845.2 | 843.1 | 840.7 | 839.4 | 838.8 | 839.4 | 840.7 | 843.1 |
| 17° | 842.9 | 843.4 | 842.9 | 841.4 | 839.1 | 836.5 | 835.1 | 834.3 | 835.1 | 836.5 | 839.1 |
| 18° | 839.1 | 839.8 | 839.1 | 837.5 | 834.9 | 832.0 | 830.5 | 829.4 | 830.5 | 832.0 | 834.9 |
| 19° | 835.3 | 835.8 | 835.3 | 833.3 | 830.4 | 827.4 | 825.5 | 824.7 | 825.5 | 827.4 | 830.4 |
| 20° | 830.9 | 831.8 | 830.9 | 828.9 | 825.8 | 822.5 | 820.5 | 819.2 | 820.5 | 822.5 | 825.8 |
| 21° | 826.6 | 827.4 | 826.6 | 824.2 | 820.9 | 817.3 | 815.1 | 813.9 | 815.1 | 817.3 | 820.9 |
| 22° | 821.9 | 822.8 | 821.9 | 819.4 | 815.6 | 812.0 | 809.5 | 808.1 | 809.5 | 812.0 | 815.6 |
| 23° | 817.1 | 818.2 | 817.1 | 814.3 | 810.2 | 806.4 | 803.6 | 802.2 | 803.6 | 806.4 | 810.2 |
| 24° | 812.0 | 813.3 | 812.0 | 808.8 | 804.6 | 800.5 | 797.5 | 796.1 | 797.5 | 800.5 | 804.6 |
| 25° | 806.8 | 808.2 | 806.8 | 803.3 | 798.7 | 794.1 | 790.9 | 789.5 | 790.9 | 794.1 | 798.7 |
| 26° | 801.2 | 802.7 | 801.2 | 797.5 | 792.5 | 788.0 | 784.2 | 782.9 | 784.2 | 788.0 | 792.5 |
| 27° | 795.4 | 797.1 | 795.4 | 791.5 | 786.1 | 781.2 | 777.4 | 775.8 | 777.4 | 781.2 | 786.1 |
| 28° | 789.4 | 791.0 | 789.4 | 785.2 | 779.5 | 774.1 | 770.0 | 768.5 | 770.0 | 774.1 | 779.5 |
| 29° | 783.1 | 784.8 | 783.1 | 778.7 | 772.6 | 767.0 | 762.6 | 761.1 | 762.6 | 767.0 | 772.6 |
| 30° | 776.6 | 778.4 | 776.6 | 771.9 | 765.5 | 759.6 | 754.9 | 753.5 | 754.9 | 759.6 | 765.5 |
| 31° | 769.8 | 771.4 | 769.8 | 764.8 | 758.1 | 751.8 | 747.0 | 745.6 | 747.0 | 751.8 | 758.1 |
| 32° | 762.8 | 764.6 | 762.8 | 757.5 | 750.4 | 744.0 | 738.9 | 737.5 | 738.9 | 744.0 | 750.4 |
| 33° | 755.4 | 757.5 | 755.4 | 750.0 | 742.7 | 735.8 | 731.0 | 729.6 | 731.0 | 735.8 | 742.7 |
| 34° | 747.9 | 750.3 | 747.9 | 742.2 | 734.8 | 728.1 | 723.4 | 721.7 | 723.4 | 728.1 | 734.8 |
| 35° | 740.2 | 742.6 | 740.2 | 734.7 | 727.3 | 720.4 | 715.3 | 713.1 | 715.3 | 720.4 | 727.3 |
| 36° | 732.8 | 734.7 | 732.8 | 727.3 | 719.8 | 711.9 | 706.0 | 703.9 | 706.0 | 711.9 | 719.8 |
| 37° | 725.5 | 727.2 | 725.5 | 719.7 | 711.2 | 702.7 | 696.6 | 694.2 | 696.6 | 702.7 | 711.2 |
| 38° | 717.9 | 719.6 | 717.9 | 711.1 | 702.1 | 693.2 | 686.8 | 684.3 | 686.8 | 693.2 | 702.1 |
| 39° | 708.9 | 711.5 | 708.9 | 702.0 | 692.5 | 683.4 | 676.8 | 674.2 | 676.8 | 683.4 | 692.5 |
| 40° | 699.8 | 702.4 | 699.8 | 692.6 | 683.1 | 673.5 | 666.7 | 664.2 | 666.7 | 673.5 | 683.1 |
| 41° | 690.2 | 693.2 | 690.2 | 683.1 | 673.2 | 663.1 | 656.4 | 653.6 | 656.4 | 663.1 | 673.2 |
| 42° | 680.5 | 683.5 | 680.5 | 673.3 | 662.9 | 652.8 | 645.7 | 642.9 | 645.7 | 652.8 | 662.9 |
| 43° | 670.7 | 673.6 | 670.7 | 663.1 | 652.6 | 642.0 | 634.8 | 631.8 | 634.8 | 642.0 | 652.6 |
| 44° | 660.5 | 663.3 | 660.5 | 652.7 | 642.0 | 631.2 | 623.6 | 620.9 | 623.6 | 631.2 | 642.0 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 45° | 650.0 | 652.9 | 650.0 | 642.0 | 630.8 | 620.0 | 612.4 | 609.1 | 612.4 | 620.0 | 630.8 |
| 46° | 639.3 | 642.3 | 639.3 | 631.1 | 619.7 | 608.8 | 600.9 | 597.9 | 600.9 | 608.8 | 619.7 |
| 47° | 628.1 | 631.1 | 628.1 | 619.7 | 608.3 | 597.1 | 589.2 | 586.1 | 589.2 | 597.1 | 608.3 |
| 48° | 617.0 | 620.1 | 617.0 | 608.3 | 596.7 | 585.5 | 577.2 | 574.2 | 577.2 | 585.5 | 596.7 |
| 49° | 605.3 | 608.6 | 605.3 | 596.5 | 584.7 | 573.4 | 565.1 | 562.2 | 565.1 | 573.4 | 584.7 |
| 50° | 593.4 | 596.8 | 593.4 | 584.6 | 572.7 | 561.2 | 552.9 | 549.9 | 552.9 | 561.2 | 572.7 |
| 51° | 581.3 | 584.6 | 581.3 | 572.4 | 560.3 | 548.7 | 540.4 | 537.2 | 540.4 | 548.7 | 560.3 |
| 52° | 569.0 | 572.2 | 569.0 | 559.9 | 547.8 | 536.1 | 527.7 | 524.4 | 527.7 | 536.1 | 547.8 |
| 53° | 556.4 | 559.7 | 556.4 | 547.1 | 535.0 | 523.3 | 514.7 | 511.5 | 514.7 | 523.3 | 535.0 |
| 54° | 543.4 | 546.8 | 543.4 | 534.2 | 521.9 | 510.2 | 501.6 | 498.4 | 501.6 | 510.2 | 521.9 |
| 55° | 530.2 | 533.6 | 530.2 | 521.1 | 508.8 | 496.9 | 488.4 | 485.4 | 488.4 | 496.9 | 508.8 |
| 56° | 516.9 | 520.2 | 516.9 | 507.6 | 495.4 | 483.6 | 474.9 | 472.1 | 474.9 | 483.6 | 495.4 |
| 57° | 503.1 | 506.5 | 503.1 | 494.0 | 481.8 | 470.0 | 461.5 | 458.4 | 461.5 | 470.0 | 481.8 |
| 58° | 489.2 | 492.6 | 489.2 | 480.1 | 467.9 | 456.3 | 447.8 | 445.0 | 447.8 | 456.3 | 467.9 |
| 59° | 474.9 | 478.4 | 474.9 | 465.9 | 453.9 | 442.2 | 434.0 | 431.1 | 434.0 | 442.2 | 453.9 |
| 60° | 460.6 | 464.0 | 460.6 | 451.8 | 439.9 | 428.2 | 420.0 | 417.0 | 420.0 | 428.2 | 439.9 |
| 61° | 446.2 | 449.3 | 446.2 | 437.3 | 425.5 | 414.1 | 405.9 | 403.0 | 405.9 | 414.1 | 425.5 |
| 62° | 431.4 | 434.4 | 431.4 | 422.6 | 410.9 | 399.8 | 391.8 | 388.9 | 391.8 | 399.8 | 410.9 |
| 63° | 416.2 | 419.2 | 416.2 | 407.7 | 396.4 | 385.2 | 377.4 | 374.7 | 377.4 | 385.2 | 396.4 |
| 64° | 401.0 | 404.1 | 401.0 | 392.8 | 381.5 | 370.7 | 363.1 | 360.4 | 363.1 | 370.7 | 381.5 |
| 65° | 385.6 | 388.8 | 385.6 | 377.6 | 366.6 | 357.0 | 349.0 | 346.4 | 349.0 | 357.0 | 366.6 |
| 66° | 370.0 | 373.1 | 370.0 | 362.2 | 351.6 | 342.3 | 335.1 | 332.3 | 335.1 | 342.3 | 351.6 |
| 67° | 354.5 | 357.8 | 354.5 | 347.2 | 337.1 | 327.5 | 320.5 | 317.8 | 320.5 | 327.5 | 337.1 |
| 68° | 339.0 | 342.1 | 339.0 | 331.9 | 322.3 | 312.5 | 305.8 | 303.3 | 305.8 | 312.5 | 322.3 |
| 69° | 323.6 | 326.3 | 323.6 | 316.4 | 307.0 | 297.5 | 291.1 | 288.6 | 291.1 | 297.5 | 307.0 |
| 70° | 307.4 | 310.0 | 307.4 | 300.6 | 291.5 | 282.5 | 276.3 | 273.9 | 276.3 | 282.5 | 291.5 |
| 71° | 291.3 | 293.8 | 291.3 | 284.7 | 276.1 | 267.4 | 261.5 | 259.1 | 261.5 | 267.4 | 276.1 |
| 72° | 275.1 | 277.4 | 275.1 | 268.8 | 260.6 | 252.4 | 246.8 | 244.5 | 246.8 | 252.4 | 260.6 |
| 73° | 258.7 | 260.8 | 258.7 | 252.8 | 245.0 | 237.3 | 232.0 | 229.9 | 232.0 | 237.3 | 245.0 |
| 74° | 242.4 | 244.4 | 242.4 | 236.9 | 229.6 | 222.3 | 217.2 | 215.4 | 217.2 | 222.3 | 229.6 |
| 75° | 226.0 | 227.8 | 226.0 | 220.9 | 214.1 | 207.2 | 202.6 | 200.9 | 202.6 | 207.2 | 214.1 |
| 76° | 209.5 | 211.3 | 209.5 | 204.9 | 198.5 | 192.3 | 188.0 | 186.3 | 188.0 | 192.3 | 198.5 |
| 77° | 193.3 | 194.8 | 193.3 | 189.0 | 183.2 | 177.5 | 173.4 | 171.9 | 173.4 | 177.5 | 183.2 |
| 78° | 177.0 | 178.4 | 177.0 | 173.2 | 167.8 | 162.6 | 158.9 | 157.5 | 158.9 | 162.6 | 167.8 |
| 79° | 160.9 | 162.2 | 160.9 | 157.4 | 152.6 | 147.9 | 144.6 | 143.3 | 144.6 | 147.9 | 152.6 |
| 80° | 144.8 | 145.9 | 144.8 | 141.7 | 137.5 | 133.3 | 130.6 | 129.2 | 130.6 | 133.3 | 137.5 |
| 81° | 128.8 | 129.5 | 128.8 | 126.3 | 122.6 | 119.0 | 116.7 | 115.7 | 116.7 | 119.0 | 122.6 |
| 82° | 112.8 | 113.4 | 112.8 | 110.9 | 107.9 | 105.0 | 103.2 | 102.4 | 103.2 | 105.0 | 107.9 |
| 83° | 97.0 | 97.4 | 97.0 | 95.8 | 93.6 | 91.4 | 90.1 | 89.5 | 90.1 | 91.4 | 93.6 |
| 84° | 81.5 | 81.8 | 81.5 | 80.7 | 79.6 | 78.1 | 77.2 | 76.7 | 77.2 | 78.1 | 79.6 |
| 85° | 66.2 | 66.3 | 66.2 | 66.0 | 65.8 | 65.3 | 64.7 | 64.3 | 64.7 | 65.3 | 65.8 |
| 86° | 51.7 | 51.7 | 51.7 | 52.3 | 53.0 | 52.9 | 52.5 | 52.1 | 52.5 | 52.9 | 53.0 |
| 87° | 38.0 | 37.7 | 38.0 | 39.5 | 40.6 | 40.9 | 40.4 | 40.0 | 40.4 | 40.9 | 40.6 |
| 88° | 26.3 | 25.5 | 26.3 | 27.8 | 29.1 | 29.7 | 29.3 | 29.2 | 29.3 | 29.7 | 29.1 |
| 89° | 15.9 | 14.9 | 15.9 | 17.3 | 18.4 | 19.4 | 19.3 | 18.9 | 19.3 | 19.4 | 18.4 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 90° | 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 |
| 92° | 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 |
| 94° | 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 |
| 96° | 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 |
| 98° | 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 |
| 100° | 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 |
| 102° | 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 |
| 104° | 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 |
| 106° | 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 |
| 108° | 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 |
| 110° | 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 |
| 112° | 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 |
| 114° | 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 |
| 116° | 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 |
| 118° | 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 |
| 120° | 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 |
| 122° | 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 |
| 124° | 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 |
| 126° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 133° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 134° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 136° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 138° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 139° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 141° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 143° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 144° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 146° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 148° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 149° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 151° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 153° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 154° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 156° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 158° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 159° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 163° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 164° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 166° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 168° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 169° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 171° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 173° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 174° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 176° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 178° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 179° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
 CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|-----|-------|-------|-------|
| 0° | 873.2 | 873.2 | 873.2 |
| 1° | 873.1 | 873.3 | 873.2 |
| 2° | 872.6 | 873.0 | 872.9 |
| 3° | 872.1 | 872.4 | 872.3 |
| 4° | 871.2 | 871.5 | 871.6 |
| 5° | 870.4 | 870.6 | 870.6 |
| 6° | 869.1 | 869.3 | 869.7 |
| 7° | 867.7 | 867.9 | 868.4 |
| 8° | 866.1 | 866.5 | 866.9 |
| 9° | 864.2 | 864.8 | 865.1 |
| 10° | 862.3 | 862.8 | 863.2 |
| 11° | 859.9 | 860.7 | 860.9 |
| 12° | 857.5 | 858.1 | 858.5 |
| 13° | 854.7 | 855.4 | 855.9 |
| 14° | 851.8 | 852.5 | 852.9 |
| 15° | 848.6 | 849.6 | 850.2 |
| 16° | 845.2 | 846.1 | 847.1 |
| 17° | 841.4 | 842.9 | 843.4 |
| 18° | 837.5 | 839.1 | 839.8 |
| 19° | 833.3 | 835.3 | 835.8 |
| 20° | 828.9 | 830.9 | 831.8 |
| 21° | 824.2 | 826.6 | 827.4 |
| 22° | 819.4 | 821.9 | 822.8 |
| 23° | 814.3 | 817.1 | 818.2 |
| 24° | 808.8 | 812.0 | 813.3 |
| 25° | 803.3 | 806.8 | 808.2 |
| 26° | 797.5 | 801.2 | 802.7 |
| 27° | 791.5 | 795.4 | 797.1 |
| 28° | 785.2 | 789.4 | 791.0 |
| 29° | 778.7 | 783.1 | 784.8 |
| 30° | 771.9 | 776.6 | 778.4 |
| 31° | 764.8 | 769.8 | 771.4 |
| 32° | 757.5 | 762.8 | 764.6 |
| 33° | 750.0 | 755.4 | 757.5 |
| 34° | 742.2 | 747.9 | 750.3 |
| 35° | 734.7 | 740.2 | 742.6 |
| 36° | 727.3 | 732.8 | 734.7 |
| 37° | 719.7 | 725.5 | 727.2 |
| 38° | 711.1 | 717.9 | 719.6 |
| 39° | 702.0 | 708.9 | 711.5 |
| 40° | 692.6 | 699.8 | 702.4 |
| 41° | 683.1 | 690.2 | 693.2 |
| 42° | 673.3 | 680.5 | 683.5 |
| 43° | 663.1 | 670.7 | 673.6 |
| 44° | 652.7 | 660.5 | 663.3 |



TEST NUMBER: P973031

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|-----|-------|-------|-------|
| 45° | 642.0 | 650.0 | 652.9 |
| 46° | 631.1 | 639.3 | 642.3 |
| 47° | 619.7 | 628.1 | 631.1 |
| 48° | 608.3 | 617.0 | 620.1 |
| 49° | 596.5 | 605.3 | 608.6 |
| 50° | 584.6 | 593.4 | 596.8 |
| 51° | 572.4 | 581.3 | 584.6 |
| 52° | 559.9 | 569.0 | 572.2 |
| 53° | 547.1 | 556.4 | 559.7 |
| 54° | 534.2 | 543.4 | 546.8 |
| 55° | 521.1 | 530.2 | 533.6 |
| 56° | 507.6 | 516.9 | 520.2 |
| 57° | 494.0 | 503.1 | 506.5 |
| 58° | 480.1 | 489.2 | 492.6 |
| 59° | 465.9 | 474.9 | 478.4 |
| 60° | 451.8 | 460.6 | 464.0 |
| 61° | 437.3 | 446.2 | 449.3 |
| 62° | 422.6 | 431.4 | 434.4 |
| 63° | 407.7 | 416.2 | 419.2 |
| 64° | 392.8 | 401.0 | 404.1 |
| 65° | 377.6 | 385.6 | 388.8 |
| 66° | 362.2 | 370.0 | 373.1 |
| 67° | 347.2 | 354.5 | 357.8 |
| 68° | 331.9 | 339.0 | 342.1 |
| 69° | 316.4 | 323.6 | 326.3 |
| 70° | 300.6 | 307.4 | 310.0 |
| 71° | 284.7 | 291.3 | 293.8 |
| 72° | 268.8 | 275.1 | 277.4 |
| 73° | 252.8 | 258.7 | 260.8 |
| 74° | 236.9 | 242.4 | 244.4 |
| 75° | 220.9 | 226.0 | 227.8 |
| 76° | 204.9 | 209.5 | 211.3 |
| 77° | 189.0 | 193.3 | 194.8 |
| 78° | 173.2 | 177.0 | 178.4 |
| 79° | 157.4 | 160.9 | 162.2 |
| 80° | 141.7 | 144.8 | 145.9 |
| 81° | 126.3 | 128.8 | 129.5 |
| 82° | 110.9 | 112.8 | 113.4 |
| 83° | 95.8 | 97.0 | 97.4 |
| 84° | 80.7 | 81.5 | 81.8 |
| 85° | 66.0 | 66.2 | 66.3 |
| 86° | 52.3 | 51.7 | 51.7 |
| 87° | 39.5 | 38.0 | 37.7 |
| 88° | 27.8 | 26.3 | 25.5 |
| 89° | 17.3 | 15.9 | 14.9 |



TEST NUMBER: P973031

CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|------|------|------|------|
| 90° | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 |
| 121° | 0.0 | 0.0 | 0.0 |
| 122° | 0.0 | 0.0 | 0.0 |
| 123° | 0.0 | 0.0 | 0.0 |
| 124° | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 |
| 126° | 0.0 | 0.0 | 0.0 |
| 127° | 0.0 | 0.0 | 0.0 |
| 128° | 0.0 | 0.0 | 0.0 |
| 129° | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 |
| 131° | 0.0 | 0.0 | 0.0 |
| 132° | 0.0 | 0.0 | 0.0 |
| 133° | 0.0 | 0.0 | 0.0 |
| 134° | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|------|------|------|------|
| 135° | 0.0 | 0.0 | 0.0 |
| 136° | 0.0 | 0.0 | 0.0 |
| 137° | 0.0 | 0.0 | 0.0 |
| 138° | 0.0 | 0.0 | 0.0 |
| 139° | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 |
| 141° | 0.0 | 0.0 | 0.0 |
| 142° | 0.0 | 0.0 | 0.0 |
| 143° | 0.0 | 0.0 | 0.0 |
| 144° | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 |
| 146° | 0.0 | 0.0 | 0.0 |
| 147° | 0.0 | 0.0 | 0.0 |
| 148° | 0.0 | 0.0 | 0.0 |
| 149° | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 |
| 151° | 0.0 | 0.0 | 0.0 |
| 152° | 0.0 | 0.0 | 0.0 |
| 153° | 0.0 | 0.0 | 0.0 |
| 154° | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 |
| 156° | 0.0 | 0.0 | 0.0 |
| 157° | 0.0 | 0.0 | 0.0 |
| 158° | 0.0 | 0.0 | 0.0 |
| 159° | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 |
| 161° | 0.0 | 0.0 | 0.0 |
| 162° | 0.0 | 0.0 | 0.0 |
| 163° | 0.0 | 0.0 | 0.0 |
| 164° | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 |
| 166° | 0.0 | 0.0 | 0.0 |
| 167° | 0.0 | 0.0 | 0.0 |
| 168° | 0.0 | 0.0 | 0.0 |
| 169° | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 |
| 171° | 0.0 | 0.0 | 0.0 |
| 172° | 0.0 | 0.0 | 0.0 |
| 173° | 0.0 | 0.0 | 0.0 |
| 174° | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 |
| 176° | 0.0 | 0.0 | 0.0 |
| 177° | 0.0 | 0.0 | 0.0 |
| 178° | 0.0 | 0.0 | 0.0 |
| 179° | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P973031
CATALOG NUMBER: 24CGRK-L3C3-UNV-MP4-LOW-3500K

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|------|------|------|------|
| 180° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)