

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: CORELITE

Report Number: P934454

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

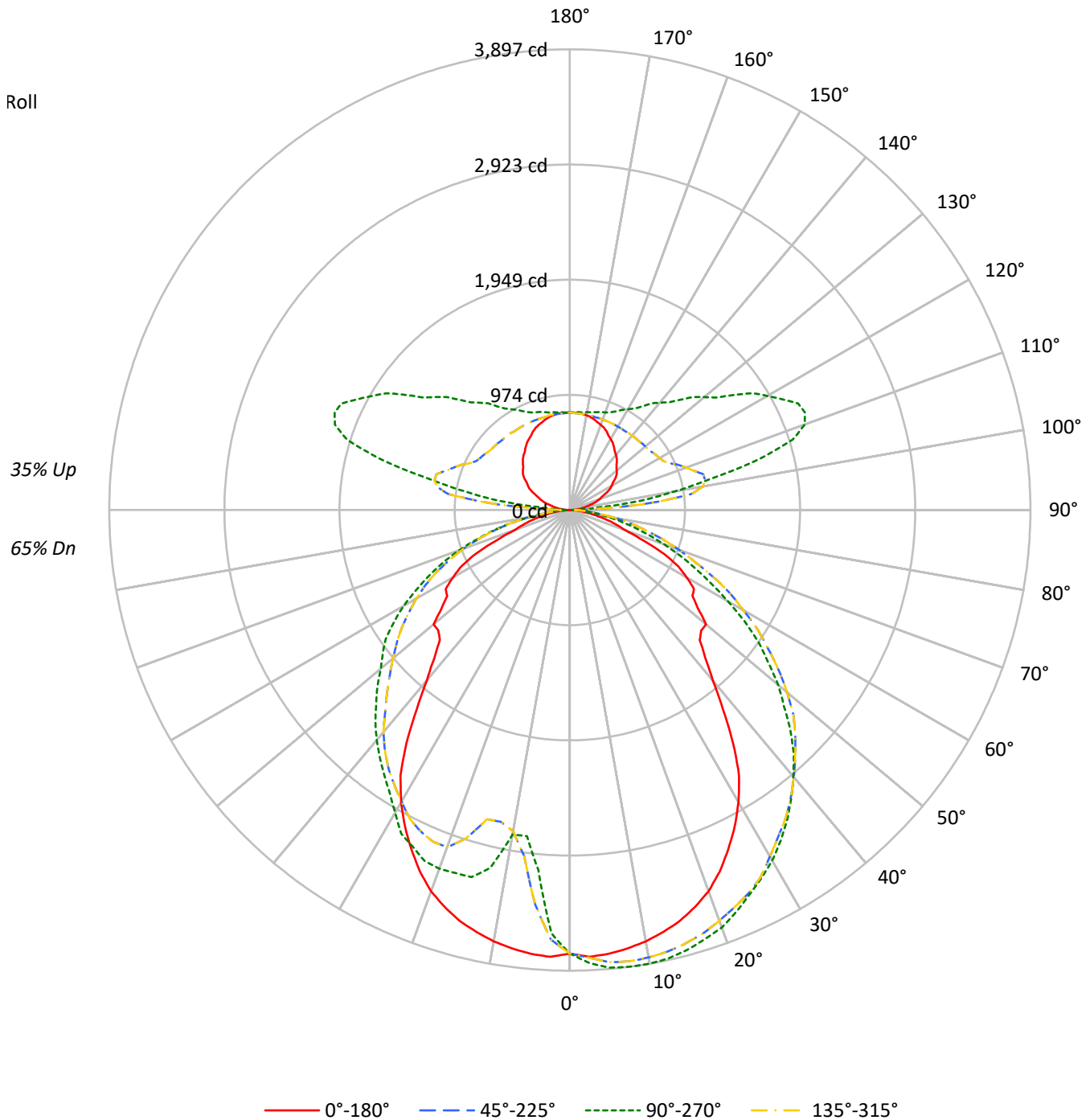
Test Method: LM-79-2019  
Report Number: P934454  
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15076.1 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 135.6  
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: P934454  
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### Luminous Intensity Polar Plot





TEST NUMBER: P934454

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
| 0   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 69 | 69 | 69 | 65 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 84  | 80 | 78 | 75 | 71 | 69 | 67 | 62 | 60 | 59 | 55 |
| 2   | 92  | 85  | 78  | 73  | 86  | 80  | 74  | 69  | 70 | 66 | 63 | 62 | 59 | 56 | 54 | 52 | 50 | 46 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 63  | 58  | 62 | 57 | 53 | 55 | 51 | 47 | 48 | 45 | 42 | 39 |
| 4   | 77  | 66  | 58  | 52  | 72  | 62  | 55  | 49  | 55 | 49 | 45 | 49 | 44 | 41 | 43 | 39 | 36 | 33 |
| 5   | 71  | 59  | 50  | 44  | 66  | 56  | 48  | 42  | 49 | 43 | 39 | 44 | 39 | 35 | 39 | 35 | 32 | 29 |
| 6   | 65  | 53  | 44  | 38  | 61  | 50  | 42  | 37  | 45 | 38 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 25 |
| 7   | 60  | 48  | 39  | 34  | 56  | 45  | 38  | 32  | 40 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 | 22 |
| 8   | 56  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 20 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 18 |
| 10  | 49  | 36  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 11602 | 11602 | 11602 | 11602 |
| 5°  | 11693 | 11712 | 11693 | 9209  |
| 10° | 11619 | 11537 | 11619 | 8248  |
| 15° | 11497 | 11287 | 11497 | 9425  |
| 20° | 11261 | 10991 | 11261 | 9444  |
| 25° | 10773 | 10559 | 10773 | 9244  |
| 30° | 10142 | 10200 | 10142 | 8805  |
| 35° | 9046  | 9747  | 9046  | 8322  |
| 40° | 7542  | 9213  | 7542  | 7957  |
| 45° | 6743  | 8588  | 6743  | 7537  |
| 50° | 7169  | 7843  | 7169  | 7117  |
| 55° | 6752  | 7040  | 6752  | 6873  |
| 60° | 6968  | 5979  | 6968  | 6295  |
| 65° | 6328  | 4942  | 6328  | 5525  |
| 70° | 4392  | 3938  | 4392  | 4631  |
| 75° | 3867  | 2912  | 3867  | 3487  |
| 80° | 3138  | 1925  | 3138  | 2095  |
| 85° | 1840  | 1019  | 1840  | 867   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10328 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 338.6   | 2.2       |
| 10°-20°   | 961.4   | 6.4       |
| 20°-30°   | 1486.1  | 9.9       |
| 30°-40°   | 1774.1  | 11.8      |
| 40°-50°   | 1784.5  | 11.8      |
| 50°-60°   | 1552.7  | 10.3      |
| 60°-70°   | 1100.9  | 7.3       |
| 70°-80°   | 582.4   | 3.9       |
| 80°-90°   | 148.2   | 1.0       |
| 90°-100°  | 402.1   | 2.7       |
| 100°-110° | 1057.1  | 7.0       |
| 110°-120° | 1096.1  | 7.3       |
| 120°-130° | 879.2   | 5.8       |
| 130°-140° | 689.9   | 4.6       |
| 140°-150° | 529.5   | 3.5       |
| 150°-160° | 381.3   | 2.5       |
| 160°-170° | 233.3   | 1.5       |
| 170°-180° | 78.8    | 0.5       |
| 0°-30°    | 2786.1  | 18.5      |
| 0°-40°    | 4560.2  | 30.2      |
| 0°-60°    | 7897.4  | 52.4      |
| 0°-90°    | 9728.9  | 64.5      |
| 90°-120°  | 2555.2  | 16.9      |
| 90°-150°  | 4653.8  | 30.9      |
| 90°-180°  | 5347.0  | 35.5      |
| 0°-180°   | 15076.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3751 | 3751 | 3751 | 3751 | 3751 |      |
| 5°   | 3769 | 3886 | 3769 | 3056 | 3769 | 358  |
| 15°  | 3598 | 3850 | 3598 | 3215 | 3598 | 1012 |
| 25°  | 3169 | 3591 | 3169 | 3144 | 3169 | 1455 |
| 35°  | 2410 | 3204 | 2410 | 2736 | 2410 | 1491 |
| 45°  | 1554 | 2640 | 1554 | 2317 | 1554 | 1245 |
| 55°  | 1267 | 1948 | 1267 | 1902 | 1267 | 1164 |
| 65°  | 880  | 1175 | 880  | 1313 | 880  | 841  |
| 75°  | 334  | 557  | 334  | 667  | 334  | 351  |
| 85°  | 57   | 142  | 57   | 121  | 57   | 77   |
| 90°  | 6    | 21   | 6    | 21   | 6    | 7    |
| 95°  | 53   | 243  | 53   | 243  | 53   | 59   |
| 105° | 190  | 1655 | 190  | 1655 | 190  | 202  |
| 115° | 338  | 2131 | 338  | 2131 | 338  | 334  |
| 125° | 471  | 1697 | 471  | 1697 | 471  | 418  |
| 135° | 561  | 1317 | 561  | 1317 | 561  | 434  |
| 145° | 650  | 1068 | 650  | 1068 | 650  | 408  |
| 155° | 735  | 920  | 735  | 920  | 735  | 338  |
| 165° | 793  | 857  | 793  | 857  | 793  | 224  |
| 175° | 825  | 830  | 825  | 830  | 825  | 78   |
| 180° | 825  | 825  | 825  | 825  | 825  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 |
| 2.5°   | 3783.0 | 3783.0 | 3804.3 | 3811.3 | 3811.3 | 3800.7 | 3790.0 | 3800.7 | 3832.7 | 3843.3 | 3839.7 |
| 5°     | 3768.8 | 3797.2 | 3836.2 | 3843.3 | 3850.4 | 3846.9 | 3839.7 | 3846.9 | 3882.3 | 3889.4 | 3893.0 |
| 7.5°   | 3740.3 | 3793.6 | 3843.3 | 3854.0 | 3864.6 | 3854.0 | 3850.4 | 3857.5 | 3893.0 | 3900.1 | 3900.1 |
| 10°    | 3704.9 | 3779.5 | 3836.2 | 3843.3 | 3854.0 | 3843.3 | 3843.3 | 3857.5 | 3893.0 | 3900.1 | 3903.6 |
| 12.5°  | 3655.2 | 3758.2 | 3811.3 | 3818.5 | 3832.7 | 3829.1 | 3825.6 | 3839.7 | 3875.3 | 3882.3 | 3882.3 |
| 15°    | 3598.4 | 3719.1 | 3768.8 | 3775.9 | 3800.7 | 3793.6 | 3793.6 | 3807.9 | 3846.9 | 3857.5 | 3854.0 |
| 17.5°  | 3520.4 | 3669.4 | 3726.2 | 3736.9 | 3754.6 | 3751.0 | 3754.6 | 3768.8 | 3804.3 | 3811.3 | 3814.9 |
| 20°    | 3431.6 | 3602.0 | 3669.4 | 3680.1 | 3697.8 | 3697.8 | 3697.8 | 3715.5 | 3751.0 | 3765.2 | 3765.2 |
| 22.5°  | 3311.0 | 3531.0 | 3602.0 | 3609.1 | 3630.4 | 3630.4 | 3637.5 | 3662.3 | 3694.2 | 3697.8 | 3697.8 |
| 25°    | 3169.0 | 3452.9 | 3513.3 | 3534.6 | 3555.8 | 3566.5 | 3577.1 | 3591.4 | 3602.0 | 3598.4 | 3602.0 |
| 27.5°  | 3020.0 | 3353.6 | 3431.6 | 3445.9 | 3474.3 | 3484.9 | 3499.1 | 3502.6 | 3506.1 | 3516.8 | 3509.7 |
| 30°    | 2853.2 | 3215.2 | 3332.3 | 3346.5 | 3392.6 | 3399.7 | 3385.5 | 3392.6 | 3410.3 | 3417.5 | 3424.6 |
| 32.5°  | 2665.1 | 3009.3 | 3229.4 | 3261.3 | 3303.9 | 3282.6 | 3279.1 | 3289.7 | 3318.1 | 3318.1 | 3325.2 |
| 35°    | 2409.6 | 2849.7 | 3133.6 | 3162.0 | 3193.8 | 3169.0 | 3183.2 | 3186.8 | 3204.5 | 3215.2 | 3211.7 |
| 37.5°  | 2129.2 | 2711.3 | 3034.2 | 3055.5 | 3080.3 | 3048.4 | 3069.7 | 3080.3 | 3094.6 | 3087.4 | 3087.4 |
| 40°    | 1880.9 | 2494.8 | 2917.1 | 2931.3 | 2952.6 | 2927.8 | 2949.0 | 2956.1 | 2963.2 | 2956.1 | 2952.6 |
| 42.5°  | 1696.3 | 2257.0 | 2792.8 | 2810.7 | 2796.4 | 2814.1 | 2821.2 | 2835.5 | 2824.8 | 2810.7 | 2810.7 |
| 45°    | 1554.4 | 2193.2 | 2658.0 | 2679.3 | 2658.0 | 2686.4 | 2697.0 | 2697.0 | 2665.1 | 2658.0 | 2654.5 |
| 47.5°  | 1508.2 | 2065.4 | 2523.2 | 2523.2 | 2512.5 | 2548.0 | 2565.8 | 2540.9 | 2508.9 | 2498.4 | 2498.4 |
| 50°    | 1504.7 | 1923.4 | 2338.6 | 2324.4 | 2374.1 | 2416.7 | 2399.0 | 2374.1 | 2349.3 | 2310.3 | 2310.3 |
| 52.5°  | 1366.2 | 1749.5 | 2100.8 | 2154.1 | 2232.2 | 2257.0 | 2228.6 | 2203.8 | 2161.2 | 2143.5 | 2129.2 |
| 55°    | 1266.9 | 1568.6 | 1884.4 | 1990.8 | 2072.5 | 2104.4 | 2051.2 | 2026.4 | 1962.4 | 1951.8 | 1944.7 |
| 57.5°  | 1245.6 | 1305.9 | 1685.7 | 1820.5 | 1919.9 | 1916.3 | 1884.4 | 1838.3 | 1785.0 | 1774.4 | 1770.8 |
| 60°    | 1142.7 | 943.9  | 1472.7 | 1632.4 | 1735.4 | 1724.7 | 1696.3 | 1653.7 | 1604.0 | 1597.0 | 1589.8 |
| 62.5°  | 1036.2 | 684.9  | 1231.4 | 1412.4 | 1557.9 | 1554.4 | 1529.6 | 1465.6 | 1430.2 | 1412.4 | 1398.2 |
| 65°    | 880.1  | 574.9  | 876.5  | 1174.6 | 1384.0 | 1391.1 | 1337.9 | 1291.8 | 1252.7 | 1231.4 | 1227.8 |
| 67.5°  | 670.7  | 468.4  | 592.6  | 979.5  | 1217.3 | 1210.1 | 1142.7 | 1121.4 | 1071.7 | 1061.0 | 1039.8 |
| 70°    | 496.8  | 312.3  | 411.7  | 794.9  | 1054.0 | 1036.2 | 983.0  | 958.2  | 912.1  | 887.2  | 873.0  |
| 72.5°  | 411.7  | 251.9  | 301.6  | 617.5  | 887.2  | 865.9  | 819.7  | 791.4  | 752.3  | 731.0  | 716.9  |
| 75°    | 333.6  | 266.2  | 230.6  | 457.8  | 720.4  | 706.2  | 663.6  | 635.2  | 603.3  | 574.9  | 578.5  |
| 77.5°  | 244.9  | 248.4  | 184.5  | 337.2  | 571.4  | 550.1  | 525.2  | 489.7  | 475.5  | 447.1  | 447.1  |
| 80°    | 184.5  | 195.2  | 138.4  | 230.6  | 411.7  | 411.7  | 390.4  | 365.6  | 340.7  | 326.5  | 326.5  |
| 82.5°  | 124.2  | 124.2  | 102.9  | 145.5  | 280.3  | 269.7  | 255.5  | 248.4  | 234.2  | 227.1  | 227.1  |
| 85°    | 56.8   | 71.0   | 63.8   | 88.7   | 152.6  | 159.7  | 159.7  | 152.6  | 149.1  | 141.9  | 145.5  |
| 87.5°  | 17.7   | 32.0   | 39.0   | 49.7   | 78.1   | 81.7   | 85.1   | 85.1   | 85.1   | 88.7   | 88.7   |
| 90°    | 5.6    | 9.9    | 14.4   | 15.5   | 24.4   | 36.2   | 42.1   | 37.4   | 28.0   | 21.0   | 21.0   |
| 92.5°  | 22.1   | 59.7   | 97.4   | 106.8  | 150.1  | 208.0  | 236.9  | 207.6  | 149.1  | 105.2  | 101.0  |
| 95°    | 53.2   | 122.0  | 191.0  | 208.2  | 369.6  | 584.9  | 692.5  | 617.9  | 468.9  | 357.1  | 344.3  |
| 97.5°  | 91.9   | 152.7  | 213.4  | 228.7  | 497.9  | 856.8  | 1036.3 | 989.2  | 895.0  | 824.3  | 800.2  |
| 100°   | 121.8  | 176.9  | 232.0  | 245.8  | 544.5  | 942.9  | 1142.1 | 1145.5 | 1152.4 | 1157.5 | 1128.8 |
| 102.5° | 147.3  | 198.7  | 250.1  | 263.0  | 565.9  | 970.0  | 1172.0 | 1231.9 | 1352.0 | 1442.1 | 1417.5 |
| 105°   | 190.4  | 233.9  | 277.5  | 288.4  | 581.8  | 973.0  | 1168.7 | 1303.2 | 1572.3 | 1774.2 | 1761.0 |
| 107.5° | 234.8  | 275.3  | 316.0  | 326.1  | 584.8  | 929.8  | 1102.2 | 1290.0 | 1665.5 | 1947.0 | 1950.3 |
| 110°   | 264.7  | 301.3  | 338.0  | 347.1  | 580.3  | 891.4  | 1046.9 | 1256.7 | 1676.5 | 1991.3 | 2005.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 293.9 | 328.8 | 363.8 | 372.5 | 580.5 | 857.8 | 996.5 | 1211.3 | 1640.8 | 1963.1 | 1984.2 |
| 115°   | 338.2 | 370.5 | 402.7 | 410.8 | 585.9 | 819.4 | 936.1 | 1143.0 | 1556.9 | 1867.3 | 1896.6 |
| 117.5° | 381.9 | 411.2 | 440.5 | 447.8 | 596.7 | 795.3 | 894.6 | 1081.4 | 1454.8 | 1734.9 | 1767.4 |
| 120°   | 407.5 | 435.0 | 462.5 | 469.4 | 605.6 | 787.2 | 878.0 | 1048.7 | 1389.9 | 1645.9 | 1677.5 |
| 122.5° | 432.3 | 460.2 | 487.9 | 494.9 | 618.4 | 783.0 | 865.2 | 1018.9 | 1326.2 | 1556.7 | 1587.8 |
| 125°   | 470.6 | 495.9 | 521.3 | 527.6 | 635.6 | 779.5 | 851.4 | 982.0  | 1243.0 | 1438.8 | 1467.5 |
| 127.5° | 501.6 | 527.2 | 552.8 | 559.1 | 652.7 | 777.4 | 839.8 | 951.9  | 1176.0 | 1344.1 | 1368.4 |
| 130°   | 518.2 | 545.8 | 573.3 | 580.2 | 665.2 | 778.7 | 835.4 | 935.2  | 1134.7 | 1284.3 | 1306.7 |
| 132.5° | 535.3 | 562.9 | 590.5 | 597.4 | 675.4 | 779.5 | 831.5 | 920.8  | 1099.4 | 1233.4 | 1253.4 |
| 135°   | 560.8 | 585.9 | 611.0 | 617.2 | 686.4 | 778.7 | 824.9 | 899.7  | 1049.3 | 1161.5 | 1178.8 |
| 137.5° | 586.8 | 611.7 | 636.6 | 642.7 | 703.1 | 783.6 | 823.8 | 887.0  | 1013.5 | 1108.3 | 1122.5 |
| 140°   | 608.4 | 631.3 | 654.1 | 659.8 | 713.2 | 784.3 | 819.8 | 874.5  | 983.8  | 1065.7 | 1078.9 |
| 142.5° | 625.0 | 646.1 | 667.4 | 672.6 | 721.7 | 787.2 | 819.8 | 867.8  | 963.8  | 1035.8 | 1047.2 |
| 145°   | 650.4 | 668.9 | 687.3 | 692.0 | 732.8 | 787.2 | 814.4 | 853.6  | 932.1  | 990.9  | 999.5  |
| 147.5° | 676.0 | 693.9 | 711.9 | 716.3 | 749.0 | 792.6 | 814.4 | 845.3  | 907.0  | 953.3  | 960.5  |
| 150°   | 692.5 | 708.7 | 725.0 | 729.1 | 757.5 | 795.4 | 814.4 | 840.4  | 892.5  | 931.7  | 937.5  |
| 152.5° | 709.7 | 722.0 | 734.3 | 737.4 | 763.1 | 797.3 | 814.4 | 836.7  | 881.2  | 914.6  | 918.9  |
| 155°   | 735.1 | 744.3 | 753.4 | 755.6 | 775.3 | 801.3 | 814.4 | 832.1  | 867.5  | 894.1  | 896.9  |
| 157.5° | 754.0 | 762.9 | 771.7 | 773.9 | 787.4 | 805.4 | 814.4 | 828.2  | 855.6  | 876.3  | 878.4  |
| 160°   | 766.7 | 773.6 | 780.5 | 782.2 | 793.0 | 807.2 | 814.4 | 826.2  | 849.7  | 867.5  | 868.6  |
| 162.5° | 779.5 | 784.7 | 789.8 | 791.1 | 798.9 | 809.2 | 814.4 | 824.3  | 844.2  | 859.1  | 860.2  |
| 165°   | 793.3 | 798.0 | 802.6 | 803.8 | 807.3 | 812.0 | 814.4 | 821.5  | 835.8  | 846.4  | 847.6  |
| 167.5° | 806.0 | 808.2 | 810.4 | 811.0 | 813.9 | 817.9 | 819.8 | 824.5  | 833.9  | 840.9  | 841.4  |
| 170°   | 814.4 | 816.5 | 818.8 | 819.3 | 819.5 | 819.7 | 819.8 | 824.5  | 833.9  | 840.9  | 840.9  |
| 172.5° | 818.8 | 819.2 | 819.7 | 819.8 | 819.8 | 819.8 | 819.8 | 823.5  | 830.9  | 836.5  | 836.0  |
| 175°   | 824.9 | 824.9 | 824.9 | 824.9 | 823.1 | 820.9 | 819.8 | 822.2  | 826.9  | 830.4  | 830.4  |
| 177.5° | 824.9 | 824.9 | 824.9 | 824.9 | 823.6 | 821.9 | 821.0 | 822.9  | 826.6  | 829.3  | 828.8  |
| 180°   | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9  | 824.9  | 824.9  | 824.9  |



TEST NUMBER: P934454

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 |
| 2.5°   | 3846.9 | 3836.2 | 3846.9 | 3839.7 | 3843.3 | 3832.7 | 3800.7 | 3790.0 | 3800.7 | 3811.3 | 3811.3 |
| 5°     | 3893.0 | 3885.9 | 3893.0 | 3893.0 | 3889.4 | 3882.3 | 3846.9 | 3839.7 | 3846.9 | 3850.4 | 3843.3 |
| 7.5°   | 3907.1 | 3896.6 | 3907.1 | 3900.1 | 3900.1 | 3893.0 | 3857.5 | 3850.4 | 3854.0 | 3864.6 | 3854.0 |
| 10°    | 3907.1 | 3896.6 | 3907.1 | 3903.6 | 3900.1 | 3893.0 | 3857.5 | 3843.3 | 3843.3 | 3854.0 | 3843.3 |
| 12.5°  | 3889.4 | 3882.3 | 3889.4 | 3882.3 | 3882.3 | 3875.3 | 3839.7 | 3825.6 | 3829.1 | 3832.7 | 3818.5 |
| 15°    | 3861.0 | 3850.4 | 3861.0 | 3854.0 | 3857.5 | 3846.9 | 3807.9 | 3793.6 | 3793.6 | 3800.7 | 3775.9 |
| 17.5°  | 3818.5 | 3804.3 | 3818.5 | 3814.9 | 3811.3 | 3804.3 | 3768.8 | 3754.6 | 3751.0 | 3754.6 | 3736.9 |
| 20°    | 3768.8 | 3758.2 | 3768.8 | 3765.2 | 3765.2 | 3751.0 | 3715.5 | 3697.8 | 3697.8 | 3697.8 | 3680.1 |
| 22.5°  | 3690.7 | 3680.1 | 3690.7 | 3697.8 | 3697.8 | 3694.2 | 3662.3 | 3637.5 | 3630.4 | 3630.4 | 3609.1 |
| 25°    | 3602.0 | 3591.4 | 3602.0 | 3602.0 | 3598.4 | 3602.0 | 3591.4 | 3577.1 | 3566.5 | 3555.8 | 3534.6 |
| 27.5°  | 3516.8 | 3509.7 | 3516.8 | 3509.7 | 3516.8 | 3506.1 | 3502.6 | 3499.1 | 3484.9 | 3474.3 | 3445.9 |
| 30°    | 3431.6 | 3424.6 | 3431.6 | 3424.6 | 3417.5 | 3410.3 | 3392.6 | 3385.5 | 3399.7 | 3392.6 | 3346.5 |
| 32.5°  | 3325.2 | 3318.1 | 3325.2 | 3325.2 | 3318.1 | 3318.1 | 3289.7 | 3279.1 | 3282.6 | 3303.9 | 3261.3 |
| 35°    | 3215.2 | 3204.5 | 3215.2 | 3211.7 | 3215.2 | 3204.5 | 3186.8 | 3183.2 | 3169.0 | 3193.8 | 3162.0 |
| 37.5°  | 3087.4 | 3076.7 | 3087.4 | 3087.4 | 3087.4 | 3094.6 | 3080.3 | 3069.7 | 3048.4 | 3080.3 | 3055.5 |
| 40°    | 2956.1 | 2941.9 | 2956.1 | 2952.6 | 2956.1 | 2963.2 | 2956.1 | 2949.0 | 2927.8 | 2952.6 | 2931.3 |
| 42.5°  | 2807.1 | 2803.5 | 2807.1 | 2810.7 | 2810.7 | 2824.8 | 2835.5 | 2821.2 | 2814.1 | 2796.4 | 2810.7 |
| 45°    | 2647.3 | 2640.3 | 2647.3 | 2654.5 | 2658.0 | 2665.1 | 2697.0 | 2697.0 | 2686.4 | 2658.0 | 2679.3 |
| 47.5°  | 2477.1 | 2459.3 | 2477.1 | 2498.4 | 2498.4 | 2508.9 | 2540.9 | 2565.8 | 2548.0 | 2512.5 | 2523.2 |
| 50°    | 2296.0 | 2299.6 | 2296.0 | 2310.3 | 2310.3 | 2349.3 | 2374.1 | 2399.0 | 2416.7 | 2374.1 | 2324.4 |
| 52.5°  | 2118.6 | 2115.1 | 2118.6 | 2129.2 | 2143.5 | 2161.2 | 2203.8 | 2228.6 | 2257.0 | 2232.2 | 2154.1 |
| 55°    | 1941.1 | 1948.3 | 1941.1 | 1944.7 | 1951.8 | 1962.4 | 2026.4 | 2051.2 | 2104.4 | 2072.5 | 1990.8 |
| 57.5°  | 1763.8 | 1753.1 | 1763.8 | 1770.8 | 1774.4 | 1785.0 | 1838.3 | 1884.4 | 1916.3 | 1919.9 | 1820.5 |
| 60°    | 1557.9 | 1543.7 | 1557.9 | 1589.8 | 1597.0 | 1604.0 | 1653.7 | 1696.3 | 1724.7 | 1735.4 | 1632.4 |
| 62.5°  | 1376.9 | 1352.1 | 1376.9 | 1398.2 | 1412.4 | 1430.2 | 1465.6 | 1529.6 | 1554.4 | 1557.9 | 1412.4 |
| 65°    | 1185.3 | 1174.6 | 1185.3 | 1227.8 | 1231.4 | 1252.7 | 1291.8 | 1337.9 | 1391.1 | 1384.0 | 1174.6 |
| 67.5°  | 1011.4 | 1011.4 | 1011.4 | 1039.8 | 1061.0 | 1071.7 | 1121.4 | 1142.7 | 1210.1 | 1217.3 | 979.5  |
| 70°    | 851.7  | 848.1  | 851.7  | 873.0  | 887.2  | 912.1  | 958.2  | 983.0  | 1036.2 | 1054.0 | 794.9  |
| 72.5°  | 699.1  | 695.6  | 699.1  | 716.9  | 731.0  | 752.3  | 791.4  | 819.7  | 865.9  | 887.2  | 617.5  |
| 75°    | 564.2  | 557.2  | 564.2  | 578.5  | 574.9  | 603.3  | 635.2  | 663.6  | 706.2  | 720.4  | 457.8  |
| 77.5°  | 433.0  | 433.0  | 433.0  | 447.1  | 447.1  | 475.5  | 489.7  | 525.2  | 550.1  | 571.4  | 337.2  |
| 80°    | 322.9  | 319.4  | 322.9  | 326.5  | 326.5  | 340.7  | 365.6  | 390.4  | 411.7  | 411.7  | 230.6  |
| 82.5°  | 227.1  | 220.0  | 227.1  | 227.1  | 227.1  | 234.2  | 248.4  | 255.5  | 269.7  | 280.3  | 145.5  |
| 85°    | 141.9  | 141.9  | 141.9  | 145.5  | 141.9  | 149.1  | 152.6  | 159.7  | 159.7  | 152.6  | 88.7   |
| 87.5°  | 92.3   | 88.7   | 92.3   | 88.7   | 88.7   | 85.1   | 85.1   | 85.1   | 81.7   | 78.1   | 49.7   |
| 90°    | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 28.0   | 37.4   | 42.1   | 36.2   | 24.4   | 15.5   |
| 92.5°  | 84.2   | 67.5   | 84.2   | 101.0  | 105.2  | 149.1  | 207.6  | 236.9  | 208.0  | 150.1  | 106.8  |
| 95°    | 293.7  | 243.0  | 293.7  | 344.3  | 357.1  | 468.9  | 617.9  | 692.5  | 584.9  | 369.6  | 208.2  |
| 97.5°  | 703.7  | 607.3  | 703.7  | 800.2  | 824.3  | 895.0  | 989.2  | 1036.3 | 856.8  | 497.9  | 228.7  |
| 100°   | 1013.9 | 899.1  | 1013.9 | 1128.8 | 1157.5 | 1152.4 | 1145.5 | 1142.1 | 942.9  | 544.5  | 245.8  |
| 102.5° | 1319.1 | 1220.7 | 1319.1 | 1417.5 | 1442.1 | 1352.0 | 1231.9 | 1172.0 | 970.0  | 565.9  | 263.0  |
| 105°   | 1708.2 | 1655.3 | 1708.2 | 1761.0 | 1774.2 | 1572.3 | 1303.2 | 1168.7 | 973.0  | 581.8  | 288.4  |
| 107.5° | 1963.0 | 1975.8 | 1963.0 | 1950.3 | 1947.0 | 1665.5 | 1290.0 | 1102.2 | 929.8  | 584.8  | 326.1  |
| 110°   | 2060.1 | 2115.3 | 2060.1 | 2005.1 | 1991.3 | 1676.5 | 1256.7 | 1046.9 | 891.4  | 580.3  | 347.1  |





TEST NUMBER: P934454

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 112.5° | 2068.9 | 2153.5 | 2068.9 | 1984.2 | 1963.1 | 1640.8 | 1211.3 | 996.5 | 857.8 | 580.5 | 372.5  |
| 115°   | 2014.0 | 2131.4 | 2014.0 | 1896.6 | 1867.3 | 1556.9 | 1143.0 | 936.1 | 819.4 | 585.9 | 410.8  |
| 117.5° | 1897.6 | 2027.8 | 1897.6 | 1767.4 | 1734.9 | 1454.8 | 1081.4 | 894.6 | 795.3 | 596.7 | 447.8  |
| 120°   | 1804.0 | 1930.4 | 1804.0 | 1677.5 | 1645.9 | 1389.9 | 1048.7 | 878.0 | 787.2 | 605.6 | 469.4  |
| 122.5° | 1712.6 | 1837.4 | 1712.6 | 1587.8 | 1556.7 | 1326.2 | 1018.9 | 865.2 | 783.0 | 618.4 | 494.9  |
| 125°   | 1582.4 | 1697.3 | 1582.4 | 1467.5 | 1438.8 | 1243.0 | 982.0  | 851.4 | 779.5 | 635.6 | 527.6  |
| 127.5° | 1465.3 | 1562.2 | 1465.3 | 1368.4 | 1344.1 | 1176.0 | 951.9  | 839.8 | 777.4 | 652.7 | 559.1  |
| 130°   | 1396.3 | 1485.9 | 1396.3 | 1306.7 | 1284.3 | 1134.7 | 935.2  | 835.4 | 778.7 | 665.2 | 580.2  |
| 132.5° | 1333.7 | 1413.9 | 1333.7 | 1253.4 | 1233.4 | 1099.4 | 920.8  | 831.5 | 779.5 | 675.4 | 597.4  |
| 135°   | 1247.9 | 1317.0 | 1247.9 | 1178.8 | 1161.5 | 1049.3 | 899.7  | 824.9 | 778.7 | 686.4 | 617.2  |
| 137.5° | 1179.0 | 1235.6 | 1179.0 | 1122.5 | 1108.3 | 1013.5 | 887.0  | 823.8 | 783.6 | 703.1 | 642.7  |
| 140°   | 1131.8 | 1184.7 | 1131.8 | 1078.9 | 1065.7 | 983.8  | 874.5  | 819.8 | 784.3 | 713.2 | 659.8  |
| 142.5° | 1092.7 | 1138.2 | 1092.7 | 1047.2 | 1035.8 | 963.8  | 867.8  | 819.8 | 787.2 | 721.7 | 672.6  |
| 145°   | 1034.0 | 1068.5 | 1034.0 | 999.5  | 990.9  | 932.1  | 853.6  | 814.4 | 787.2 | 732.8 | 692.0  |
| 147.5° | 989.0  | 1017.5 | 989.0  | 960.5  | 953.3  | 907.0  | 845.3  | 814.4 | 792.6 | 749.0 | 716.3  |
| 150°   | 960.6  | 983.8  | 960.6  | 937.5  | 931.7  | 892.5  | 840.4  | 814.4 | 795.4 | 757.5 | 729.1  |
| 152.5° | 936.4  | 953.9  | 936.4  | 918.9  | 914.6  | 881.2  | 836.7  | 814.4 | 797.3 | 763.1 | 737.4  |
| 155°   | 908.6  | 920.1  | 908.6  | 896.9  | 894.1  | 867.5  | 832.1  | 814.4 | 801.3 | 775.3 | 755.6  |
| 157.5° | 886.4  | 894.6  | 886.4  | 878.4  | 876.3  | 855.6  | 828.2  | 814.4 | 805.4 | 787.4 | 773.9  |
| 160°   | 873.4  | 878.0  | 873.4  | 868.6  | 867.5  | 849.7  | 826.2  | 814.4 | 807.2 | 793.0 | 782.2  |
| 162.5° | 864.7  | 869.2  | 864.7  | 860.2  | 859.1  | 844.2  | 824.3  | 814.4 | 809.2 | 798.9 | 791.1  |
| 165°   | 852.3  | 857.0  | 852.3  | 847.6  | 846.4  | 835.8  | 821.5  | 814.4 | 812.0 | 807.3 | 803.8  |
| 167.5° | 843.4  | 845.4  | 843.4  | 841.4  | 840.9  | 833.9  | 824.5  | 819.8 | 817.9 | 813.9 | 811.0  |
| 170°   | 840.9  | 840.9  | 840.9  | 840.9  | 840.9  | 833.9  | 824.5  | 819.8 | 819.7 | 819.5 | 819.3  |
| 172.5° | 834.3  | 832.6  | 834.3  | 836.0  | 836.5  | 830.9  | 823.5  | 819.8 | 819.8 | 819.8 | 819.8  |
| 175°   | 830.4  | 830.4  | 830.4  | 830.4  | 830.4  | 826.9  | 822.2  | 819.8 | 820.9 | 823.1 | 824.9  |
| 177.5° | 826.8  | 824.9  | 826.8  | 828.8  | 829.3  | 826.6  | 822.9  | 821.0 | 821.9 | 823.6 | 824.9  |
| 180°   | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9 | 824.9 | 824.9 | 824.9  |



TEST NUMBER: P934454

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 |
| 2.5°   | 3804.3 | 3783.0 | 3783.0 | 3747.5 | 3733.3 | 3722.6 | 3704.9 | 3651.7 | 3637.5 | 3623.2 | 3644.5 |
| 5°     | 3836.2 | 3797.2 | 3768.8 | 3704.9 | 3651.7 | 3630.4 | 3563.0 | 3435.2 | 3350.0 | 3286.2 | 3250.7 |
| 7.5°   | 3843.3 | 3793.6 | 3740.3 | 3641.1 | 3513.3 | 3456.5 | 3250.7 | 3016.5 | 2952.6 | 2895.8 | 2860.3 |
| 10°    | 3836.2 | 3779.5 | 3704.9 | 3555.8 | 3254.2 | 3154.8 | 2949.0 | 2796.4 | 2757.4 | 2746.7 | 2757.4 |
| 12.5°  | 3811.3 | 3758.2 | 3655.2 | 3406.8 | 2984.5 | 2917.1 | 2796.4 | 2707.7 | 2700.6 | 2718.3 | 2814.1 |
| 15°    | 3768.8 | 3719.1 | 3598.4 | 3208.1 | 2835.5 | 2785.8 | 2700.6 | 2668.7 | 2707.7 | 2831.9 | 3119.4 |
| 17.5°  | 3726.2 | 3669.4 | 3520.4 | 3012.9 | 2721.9 | 2686.4 | 2626.0 | 2690.0 | 2909.9 | 3076.7 | 3172.6 |
| 20°    | 3669.4 | 3602.0 | 3431.6 | 2870.9 | 2640.3 | 2608.3 | 2579.9 | 2867.4 | 3034.2 | 3094.6 | 3147.7 |
| 22.5°  | 3602.0 | 3531.0 | 3311.0 | 2771.6 | 2555.1 | 2530.2 | 2548.0 | 2966.8 | 3034.2 | 3076.7 | 3122.9 |
| 25°    | 3513.3 | 3452.9 | 3169.0 | 2693.5 | 2487.7 | 2459.3 | 2526.7 | 2956.1 | 2995.2 | 3005.8 | 3098.0 |
| 27.5°  | 3431.6 | 3353.6 | 3020.0 | 2622.5 | 2406.1 | 2395.4 | 2544.5 | 2909.9 | 2938.4 | 2949.0 | 3048.4 |
| 30°    | 3332.3 | 3215.2 | 2853.2 | 2548.0 | 2320.9 | 2317.3 | 2548.0 | 2853.2 | 2846.1 | 2874.5 | 2973.9 |
| 32.5°  | 3229.4 | 3009.3 | 2665.1 | 2455.8 | 2239.3 | 2235.7 | 2523.2 | 2768.0 | 2761.0 | 2800.0 | 2874.5 |
| 35°    | 3133.6 | 2849.7 | 2409.6 | 2349.3 | 2136.4 | 2139.9 | 2462.8 | 2668.7 | 2672.2 | 2707.7 | 2753.8 |
| 37.5°  | 3034.2 | 2711.3 | 2129.2 | 2232.2 | 2037.0 | 2037.0 | 2381.2 | 2576.4 | 2569.3 | 2579.9 | 2643.9 |
| 40°    | 2917.1 | 2494.8 | 1880.9 | 2079.5 | 1944.7 | 1934.1 | 2281.9 | 2477.1 | 2452.2 | 2448.7 | 2537.4 |
| 42.5°  | 2792.8 | 2257.0 | 1696.3 | 1877.3 | 1838.3 | 1824.0 | 2161.2 | 2356.4 | 2310.3 | 2320.9 | 2434.4 |
| 45°    | 2658.0 | 2193.2 | 1554.4 | 1586.3 | 1728.2 | 1717.6 | 2029.9 | 2218.0 | 2186.0 | 2214.5 | 2331.6 |
| 47.5°  | 2523.2 | 2065.4 | 1508.2 | 1316.6 | 1611.1 | 1607.6 | 1884.4 | 2083.1 | 2065.4 | 2093.8 | 2218.0 |
| 50°    | 2338.6 | 1923.4 | 1504.7 | 1128.5 | 1479.9 | 1494.0 | 1710.5 | 1951.8 | 1951.8 | 1976.7 | 2107.9 |
| 52.5°  | 2100.8 | 1749.5 | 1366.2 | 1022.0 | 1327.2 | 1369.8 | 1557.9 | 1838.3 | 1845.3 | 1870.2 | 1987.3 |
| 55°    | 1884.4 | 1568.6 | 1266.9 | 940.4  | 1146.3 | 1238.5 | 1408.9 | 1721.1 | 1735.4 | 1760.2 | 1866.6 |
| 57.5°  | 1685.7 | 1305.9 | 1245.6 | 844.6  | 979.5  | 1068.2 | 1277.5 | 1607.6 | 1614.7 | 1636.0 | 1738.9 |
| 60°    | 1472.7 | 943.9  | 1142.7 | 741.7  | 834.0  | 901.4  | 1156.9 | 1472.7 | 1497.6 | 1511.7 | 1600.5 |
| 62.5°  | 1231.4 | 684.9  | 1036.2 | 670.7  | 763.0  | 777.2  | 1057.5 | 1344.9 | 1376.9 | 1387.6 | 1440.8 |
| 65°    | 876.5  | 574.9  | 880.1  | 610.4  | 688.5  | 692.0  | 951.1  | 1213.7 | 1242.1 | 1259.8 | 1298.8 |
| 67.5°  | 592.6  | 468.4  | 670.7  | 553.6  | 631.6  | 635.2  | 848.1  | 1061.0 | 1100.1 | 1114.3 | 1139.2 |
| 70°    | 411.7  | 312.3  | 496.8  | 493.3  | 567.8  | 574.9  | 738.2  | 922.7  | 958.2  | 968.8  | 983.0  |
| 72.5°  | 301.6  | 251.9  | 411.7  | 443.6  | 500.4  | 507.5  | 624.6  | 766.6  | 802.0  | 812.7  | 819.7  |
| 75°    | 230.6  | 266.2  | 333.6  | 386.8  | 425.8  | 429.4  | 511.0  | 624.6  | 649.5  | 656.5  | 660.0  |
| 77.5°  | 184.5  | 248.4  | 244.9  | 312.3  | 347.7  | 340.7  | 401.0  | 482.7  | 503.9  | 503.9  | 503.9  |
| 80°    | 138.4  | 195.2  | 184.5  | 223.6  | 255.5  | 248.4  | 287.5  | 344.2  | 351.3  | 358.4  | 354.9  |
| 82.5°  | 102.9  | 124.2  | 124.2  | 141.9  | 170.4  | 163.2  | 191.6  | 223.6  | 223.6  | 223.6  | 230.6  |
| 85°    | 63.8   | 71.0   | 56.8   | 74.5   | 95.8   | 92.3   | 106.5  | 120.7  | 124.2  | 124.2  | 117.1  |
| 87.5°  | 39.0   | 32.0   | 17.7   | 28.4   | 42.6   | 42.6   | 49.7   | 53.3   | 49.7   | 49.7   | 49.7   |
| 90°    | 14.4   | 9.9    | 5.6    | 9.9    | 14.4   | 15.5   | 24.4   | 36.2   | 42.1   | 37.4   | 28.0   |
| 92.5°  | 97.4   | 59.7   | 22.1   | 59.7   | 97.4   | 106.8  | 150.1  | 208.0  | 236.9  | 207.6  | 149.1  |
| 95°    | 191.0  | 122.0  | 53.2   | 122.0  | 191.0  | 208.2  | 369.6  | 584.9  | 692.5  | 617.9  | 468.9  |
| 97.5°  | 213.4  | 152.7  | 91.9   | 152.7  | 213.4  | 228.7  | 497.9  | 856.8  | 1036.3 | 989.2  | 895.0  |
| 100°   | 232.0  | 176.9  | 121.8  | 176.9  | 232.0  | 245.8  | 544.5  | 942.9  | 1142.1 | 1145.5 | 1152.4 |
| 102.5° | 250.1  | 198.7  | 147.3  | 198.7  | 250.1  | 263.0  | 565.9  | 970.0  | 1172.0 | 1231.9 | 1352.0 |
| 105°   | 277.5  | 233.9  | 190.4  | 233.9  | 277.5  | 288.4  | 581.8  | 973.0  | 1168.7 | 1303.2 | 1572.3 |
| 107.5° | 316.0  | 275.3  | 234.8  | 275.3  | 316.0  | 326.1  | 584.8  | 929.8  | 1102.2 | 1290.0 | 1665.5 |
| 110°   | 338.0  | 301.3  | 264.7  | 301.3  | 338.0  | 347.1  | 580.3  | 891.4  | 1046.9 | 1256.7 | 1676.5 |



TEST NUMBER: P934454

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°   | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|
| 112.5° | 363.8 | 328.8 | 293.9 | 328.8 | 363.8 | 372.5  | 580.5 | 857.8 | 996.5 | 1211.3 | 1640.8 |
| 115°   | 402.7 | 370.5 | 338.2 | 370.5 | 402.7 | 410.8  | 585.9 | 819.4 | 936.1 | 1143.0 | 1556.9 |
| 117.5° | 440.5 | 411.2 | 381.9 | 411.2 | 440.5 | 447.8  | 596.7 | 795.3 | 894.6 | 1081.4 | 1454.8 |
| 120°   | 462.5 | 435.0 | 407.5 | 435.0 | 462.5 | 469.4  | 605.6 | 787.2 | 878.0 | 1048.7 | 1389.9 |
| 122.5° | 487.9 | 460.2 | 432.3 | 460.2 | 487.9 | 494.9  | 618.4 | 783.0 | 865.2 | 1018.9 | 1326.2 |
| 125°   | 521.3 | 495.9 | 470.6 | 495.9 | 521.3 | 527.6  | 635.6 | 779.5 | 851.4 | 982.0  | 1243.0 |
| 127.5° | 552.8 | 527.2 | 501.6 | 527.2 | 552.8 | 559.1  | 652.7 | 777.4 | 839.8 | 951.9  | 1176.0 |
| 130°   | 573.3 | 545.8 | 518.2 | 545.8 | 573.3 | 580.2  | 665.2 | 778.7 | 835.4 | 935.2  | 1134.7 |
| 132.5° | 590.5 | 562.9 | 535.3 | 562.9 | 590.5 | 597.4  | 675.4 | 779.5 | 831.5 | 920.8  | 1099.4 |
| 135°   | 611.0 | 585.9 | 560.8 | 585.9 | 611.0 | 617.2  | 686.4 | 778.7 | 824.9 | 899.7  | 1049.3 |
| 137.5° | 636.6 | 611.7 | 586.8 | 611.7 | 636.6 | 642.7  | 703.1 | 783.6 | 823.8 | 887.0  | 1013.5 |
| 140°   | 654.1 | 631.3 | 608.4 | 631.3 | 654.1 | 659.8  | 713.2 | 784.3 | 819.8 | 874.5  | 983.8  |
| 142.5° | 667.4 | 646.1 | 625.0 | 646.1 | 667.4 | 672.6  | 721.7 | 787.2 | 819.8 | 867.8  | 963.8  |
| 145°   | 687.3 | 668.9 | 650.4 | 668.9 | 687.3 | 692.0  | 732.8 | 787.2 | 814.4 | 853.6  | 932.1  |
| 147.5° | 711.9 | 693.9 | 676.0 | 693.9 | 711.9 | 716.3  | 749.0 | 792.6 | 814.4 | 845.3  | 907.0  |
| 150°   | 725.0 | 708.7 | 692.5 | 708.7 | 725.0 | 729.1  | 757.5 | 795.4 | 814.4 | 840.4  | 892.5  |
| 152.5° | 734.3 | 722.0 | 709.7 | 722.0 | 734.3 | 737.4  | 763.1 | 797.3 | 814.4 | 836.7  | 881.2  |
| 155°   | 753.4 | 744.3 | 735.1 | 744.3 | 753.4 | 755.6  | 775.3 | 801.3 | 814.4 | 832.1  | 867.5  |
| 157.5° | 771.7 | 762.9 | 754.0 | 762.9 | 771.7 | 773.9  | 787.4 | 805.4 | 814.4 | 828.2  | 855.6  |
| 160°   | 780.5 | 773.6 | 766.7 | 773.6 | 780.5 | 782.2  | 793.0 | 807.2 | 814.4 | 826.2  | 849.7  |
| 162.5° | 789.8 | 784.7 | 779.5 | 784.7 | 789.8 | 791.1  | 798.9 | 809.2 | 814.4 | 824.3  | 844.2  |
| 165°   | 802.6 | 798.0 | 793.3 | 798.0 | 802.6 | 803.8  | 807.3 | 812.0 | 814.4 | 821.5  | 835.8  |
| 167.5° | 810.4 | 808.2 | 806.0 | 808.2 | 810.4 | 811.0  | 813.9 | 817.9 | 819.8 | 824.5  | 833.9  |
| 170°   | 818.8 | 816.5 | 814.4 | 816.5 | 818.8 | 819.3  | 819.5 | 819.7 | 819.8 | 824.5  | 833.9  |
| 172.5° | 819.7 | 819.2 | 818.8 | 819.2 | 819.7 | 819.8  | 819.8 | 819.8 | 819.8 | 823.5  | 830.9  |
| 175°   | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9  | 823.1 | 820.9 | 819.8 | 822.2  | 826.9  |
| 177.5° | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9  | 823.6 | 821.9 | 821.0 | 822.9  | 826.6  |
| 180°   | 824.9 | 824.9 | 824.9 | 824.9 | 824.9 | 824.9  | 824.9 | 824.9 | 824.9 | 824.9  | 824.9  |



TEST NUMBER: P934454

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 |
| 2.5°   | 3619.7 | 3609.1 | 3623.2 | 3584.2 | 3623.2 | 3609.1 | 3619.7 | 3644.5 | 3623.2 | 3637.5 | 3651.7 |
| 5°     | 3176.1 | 3158.4 | 3101.6 | 3055.5 | 3101.6 | 3158.4 | 3176.1 | 3250.7 | 3286.2 | 3350.0 | 3435.2 |
| 7.5°   | 2839.0 | 2824.8 | 2810.7 | 2782.2 | 2810.7 | 2824.8 | 2839.0 | 2860.3 | 2895.8 | 2952.6 | 3016.5 |
| 10°    | 2764.5 | 2768.0 | 2789.3 | 2785.8 | 2789.3 | 2768.0 | 2764.5 | 2757.4 | 2746.7 | 2757.4 | 2796.4 |
| 12.5°  | 2956.1 | 2988.0 | 3105.1 | 3098.0 | 3105.1 | 2988.0 | 2956.1 | 2814.1 | 2718.3 | 2700.6 | 2707.7 |
| 15°    | 3176.1 | 3186.8 | 3211.7 | 3215.2 | 3211.7 | 3186.8 | 3176.1 | 3119.4 | 2831.9 | 2707.7 | 2668.7 |
| 17.5°  | 3197.4 | 3201.0 | 3218.7 | 3218.7 | 3218.7 | 3201.0 | 3197.4 | 3172.6 | 3076.7 | 2909.9 | 2690.0 |
| 20°    | 3179.7 | 3186.8 | 3222.2 | 3229.4 | 3222.2 | 3186.8 | 3179.7 | 3147.7 | 3094.6 | 3034.2 | 2867.4 |
| 22.5°  | 3172.6 | 3186.8 | 3215.2 | 3211.7 | 3215.2 | 3186.8 | 3172.6 | 3122.9 | 3076.7 | 3034.2 | 2966.8 |
| 25°    | 3137.1 | 3137.1 | 3140.7 | 3144.2 | 3140.7 | 3137.1 | 3137.1 | 3098.0 | 3005.8 | 2995.2 | 2956.1 |
| 27.5°  | 3062.6 | 3069.7 | 3091.0 | 3087.4 | 3091.0 | 3069.7 | 3062.6 | 3048.4 | 2949.0 | 2938.4 | 2909.9 |
| 30°    | 2995.2 | 2988.0 | 2970.3 | 2956.1 | 2970.3 | 2988.0 | 2995.2 | 2973.9 | 2874.5 | 2846.1 | 2853.2 |
| 32.5°  | 2881.6 | 2863.8 | 2846.1 | 2835.5 | 2846.1 | 2863.8 | 2881.6 | 2874.5 | 2800.0 | 2761.0 | 2768.0 |
| 35°    | 2746.7 | 2750.3 | 2746.7 | 2736.1 | 2746.7 | 2750.3 | 2746.7 | 2753.8 | 2707.7 | 2672.2 | 2668.7 |
| 37.5°  | 2650.9 | 2658.0 | 2654.5 | 2640.3 | 2654.5 | 2658.0 | 2650.9 | 2643.9 | 2579.9 | 2569.3 | 2576.4 |
| 40°    | 2551.5 | 2555.1 | 2551.5 | 2540.9 | 2551.5 | 2555.1 | 2551.5 | 2537.4 | 2448.7 | 2452.2 | 2477.1 |
| 42.5°  | 2455.8 | 2452.2 | 2441.5 | 2434.4 | 2441.5 | 2452.2 | 2455.8 | 2434.4 | 2320.9 | 2310.3 | 2356.4 |
| 45°    | 2345.7 | 2349.3 | 2328.0 | 2317.3 | 2328.0 | 2349.3 | 2345.7 | 2331.6 | 2214.5 | 2186.0 | 2218.0 |
| 47.5°  | 2235.7 | 2235.7 | 2218.0 | 2207.3 | 2218.0 | 2235.7 | 2235.7 | 2218.0 | 2093.8 | 2065.4 | 2083.1 |
| 50°    | 2118.6 | 2115.1 | 2090.2 | 2086.7 | 2090.2 | 2115.1 | 2118.6 | 2107.9 | 1976.7 | 1951.8 | 1951.8 |
| 52.5°  | 1983.7 | 1983.7 | 1987.3 | 1994.4 | 1987.3 | 1983.7 | 1983.7 | 1987.3 | 1870.2 | 1845.3 | 1838.3 |
| 55°    | 1866.6 | 1870.2 | 1895.0 | 1902.1 | 1895.0 | 1870.2 | 1866.6 | 1866.6 | 1760.2 | 1735.4 | 1721.1 |
| 57.5°  | 1745.9 | 1745.9 | 1763.8 | 1763.8 | 1763.8 | 1745.9 | 1745.9 | 1738.9 | 1636.0 | 1614.7 | 1607.6 |
| 60°    | 1607.6 | 1614.7 | 1628.8 | 1625.3 | 1628.8 | 1614.7 | 1607.6 | 1600.5 | 1511.7 | 1497.6 | 1472.7 |
| 62.5°  | 1462.0 | 1469.2 | 1472.7 | 1465.6 | 1472.7 | 1469.2 | 1462.0 | 1440.8 | 1387.6 | 1376.9 | 1344.9 |
| 65°    | 1309.5 | 1316.6 | 1320.1 | 1313.1 | 1320.1 | 1316.6 | 1309.5 | 1298.8 | 1259.8 | 1242.1 | 1213.7 |
| 67.5°  | 1153.3 | 1149.8 | 1146.3 | 1160.4 | 1146.3 | 1149.8 | 1153.3 | 1139.2 | 1114.3 | 1100.1 | 1061.0 |
| 70°    | 993.6  | 993.6  | 990.1  | 997.2  | 990.1  | 993.6  | 993.6  | 983.0  | 968.8  | 958.2  | 922.7  |
| 72.5°  | 823.3  | 819.7  | 834.0  | 823.3  | 834.0  | 819.7  | 823.3  | 819.7  | 812.7  | 802.0  | 766.6  |
| 75°    | 656.5  | 663.6  | 656.5  | 667.2  | 656.5  | 663.6  | 656.5  | 660.0  | 656.5  | 649.5  | 624.6  |
| 77.5°  | 500.4  | 507.5  | 500.4  | 500.4  | 500.4  | 507.5  | 500.4  | 503.9  | 503.9  | 503.9  | 482.7  |
| 80°    | 354.9  | 351.3  | 351.3  | 347.7  | 351.3  | 351.3  | 354.9  | 354.9  | 358.4  | 351.3  | 344.2  |
| 82.5°  | 227.1  | 223.6  | 223.6  | 230.6  | 223.6  | 223.6  | 227.1  | 230.6  | 223.6  | 223.6  | 223.6  |
| 85°    | 124.2  | 127.8  | 120.7  | 120.7  | 120.7  | 127.8  | 124.2  | 117.1  | 124.2  | 124.2  | 120.7  |
| 87.5°  | 46.1   | 42.6   | 42.6   | 42.6   | 42.6   | 42.6   | 46.1   | 49.7   | 49.7   | 49.7   | 53.3   |
| 90°    | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 28.0   | 37.4   | 42.1   | 36.2   |
| 92.5°  | 105.2  | 101.0  | 84.2   | 67.5   | 84.2   | 101.0  | 105.2  | 149.1  | 207.6  | 236.9  | 208.0  |
| 95°    | 357.1  | 344.3  | 293.7  | 243.0  | 293.7  | 344.3  | 357.1  | 468.9  | 617.9  | 692.5  | 584.9  |
| 97.5°  | 824.3  | 800.2  | 703.7  | 607.3  | 703.7  | 800.2  | 824.3  | 895.0  | 989.2  | 1036.3 | 856.8  |
| 100°   | 1157.5 | 1128.8 | 1013.9 | 899.1  | 1013.9 | 1128.8 | 1157.5 | 1152.4 | 1145.5 | 1142.1 | 942.9  |
| 102.5° | 1442.1 | 1417.5 | 1319.1 | 1220.7 | 1319.1 | 1417.5 | 1442.1 | 1352.0 | 1231.9 | 1172.0 | 970.0  |
| 105°   | 1774.2 | 1761.0 | 1708.2 | 1655.3 | 1708.2 | 1761.0 | 1774.2 | 1572.3 | 1303.2 | 1168.7 | 973.0  |
| 107.5° | 1947.0 | 1950.3 | 1963.0 | 1975.8 | 1963.0 | 1950.3 | 1947.0 | 1665.5 | 1290.0 | 1102.2 | 929.8  |
| 110°   | 1991.3 | 2005.1 | 2060.1 | 2115.3 | 2060.1 | 2005.1 | 1991.3 | 1676.5 | 1256.7 | 1046.9 | 891.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 112.5° | 1963.1 | 1984.2 | 2068.9 | 2153.5 | 2068.9 | 1984.2 | 1963.1 | 1640.8 | 1211.3 | 996.5 | 857.8 |
| 115°   | 1867.3 | 1896.6 | 2014.0 | 2131.4 | 2014.0 | 1896.6 | 1867.3 | 1556.9 | 1143.0 | 936.1 | 819.4 |
| 117.5° | 1734.9 | 1767.4 | 1897.6 | 2027.8 | 1897.6 | 1767.4 | 1734.9 | 1454.8 | 1081.4 | 894.6 | 795.3 |
| 120°   | 1645.9 | 1677.5 | 1804.0 | 1930.4 | 1804.0 | 1677.5 | 1645.9 | 1389.9 | 1048.7 | 878.0 | 787.2 |
| 122.5° | 1556.7 | 1587.8 | 1712.6 | 1837.4 | 1712.6 | 1587.8 | 1556.7 | 1326.2 | 1018.9 | 865.2 | 783.0 |
| 125°   | 1438.8 | 1467.5 | 1582.4 | 1697.3 | 1582.4 | 1467.5 | 1438.8 | 1243.0 | 982.0  | 851.4 | 779.5 |
| 127.5° | 1344.1 | 1368.4 | 1465.3 | 1562.2 | 1465.3 | 1368.4 | 1344.1 | 1176.0 | 951.9  | 839.8 | 777.4 |
| 130°   | 1284.3 | 1306.7 | 1396.3 | 1485.9 | 1396.3 | 1306.7 | 1284.3 | 1134.7 | 935.2  | 835.4 | 778.7 |
| 132.5° | 1233.4 | 1253.4 | 1333.7 | 1413.9 | 1333.7 | 1253.4 | 1233.4 | 1099.4 | 920.8  | 831.5 | 779.5 |
| 135°   | 1161.5 | 1178.8 | 1247.9 | 1317.0 | 1247.9 | 1178.8 | 1161.5 | 1049.3 | 899.7  | 824.9 | 778.7 |
| 137.5° | 1108.3 | 1122.5 | 1179.0 | 1235.6 | 1179.0 | 1122.5 | 1108.3 | 1013.5 | 887.0  | 823.8 | 783.6 |
| 140°   | 1065.7 | 1078.9 | 1131.8 | 1184.7 | 1131.8 | 1078.9 | 1065.7 | 983.8  | 874.5  | 819.8 | 784.3 |
| 142.5° | 1035.8 | 1047.2 | 1092.7 | 1138.2 | 1092.7 | 1047.2 | 1035.8 | 963.8  | 867.8  | 819.8 | 787.2 |
| 145°   | 990.9  | 999.5  | 1034.0 | 1068.5 | 1034.0 | 999.5  | 990.9  | 932.1  | 853.6  | 814.4 | 787.2 |
| 147.5° | 953.3  | 960.5  | 989.0  | 1017.5 | 989.0  | 960.5  | 953.3  | 907.0  | 845.3  | 814.4 | 792.6 |
| 150°   | 931.7  | 937.5  | 960.6  | 983.8  | 960.6  | 937.5  | 931.7  | 892.5  | 840.4  | 814.4 | 795.4 |
| 152.5° | 914.6  | 918.9  | 936.4  | 953.9  | 936.4  | 918.9  | 914.6  | 881.2  | 836.7  | 814.4 | 797.3 |
| 155°   | 894.1  | 896.9  | 908.6  | 920.1  | 908.6  | 896.9  | 894.1  | 867.5  | 832.1  | 814.4 | 801.3 |
| 157.5° | 876.3  | 878.4  | 886.4  | 894.6  | 886.4  | 878.4  | 876.3  | 855.6  | 828.2  | 814.4 | 805.4 |
| 160°   | 867.5  | 868.6  | 873.4  | 878.0  | 873.4  | 868.6  | 867.5  | 849.7  | 826.2  | 814.4 | 807.2 |
| 162.5° | 859.1  | 860.2  | 864.7  | 869.2  | 864.7  | 860.2  | 859.1  | 844.2  | 824.3  | 814.4 | 809.2 |
| 165°   | 846.4  | 847.6  | 852.3  | 857.0  | 852.3  | 847.6  | 846.4  | 835.8  | 821.5  | 814.4 | 812.0 |
| 167.5° | 840.9  | 841.4  | 843.4  | 845.4  | 843.4  | 841.4  | 840.9  | 833.9  | 824.5  | 819.8 | 817.9 |
| 170°   | 840.9  | 840.9  | 840.9  | 840.9  | 840.9  | 840.9  | 840.9  | 833.9  | 824.5  | 819.8 | 819.7 |
| 172.5° | 836.5  | 836.0  | 834.3  | 832.6  | 834.3  | 836.0  | 836.5  | 830.9  | 823.5  | 819.8 | 819.8 |
| 175°   | 830.4  | 830.4  | 830.4  | 830.4  | 830.4  | 830.4  | 830.4  | 826.9  | 822.2  | 819.8 | 820.9 |
| 177.5° | 829.3  | 828.8  | 826.8  | 824.9  | 826.8  | 828.8  | 829.3  | 826.6  | 822.9  | 821.0 | 821.9 |
| 180°   | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9  | 824.9 | 824.9 |



TEST NUMBER: P934454

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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3751.0 | 3751.0 | 3751.0 | 3751.0 | 3751.0 |
| 2.5°   | 3704.9 | 3722.6 | 3733.3 | 3747.5 | 3783.0 |
| 5°     | 3563.0 | 3630.4 | 3651.7 | 3704.9 | 3768.8 |
| 7.5°   | 3250.7 | 3456.5 | 3513.3 | 3641.1 | 3740.3 |
| 10°    | 2949.0 | 3154.8 | 3254.2 | 3555.8 | 3704.9 |
| 12.5°  | 2796.4 | 2917.1 | 2984.5 | 3406.8 | 3655.2 |
| 15°    | 2700.6 | 2785.8 | 2835.5 | 3208.1 | 3598.4 |
| 17.5°  | 2626.0 | 2686.4 | 2721.9 | 3012.9 | 3520.4 |
| 20°    | 2579.9 | 2608.3 | 2640.3 | 2870.9 | 3431.6 |
| 22.5°  | 2548.0 | 2530.2 | 2555.1 | 2771.6 | 3311.0 |
| 25°    | 2526.7 | 2459.3 | 2487.7 | 2693.5 | 3169.0 |
| 27.5°  | 2544.5 | 2395.4 | 2406.1 | 2622.5 | 3020.0 |
| 30°    | 2548.0 | 2317.3 | 2320.9 | 2548.0 | 2853.2 |
| 32.5°  | 2523.2 | 2235.7 | 2239.3 | 2455.8 | 2665.1 |
| 35°    | 2462.8 | 2139.9 | 2136.4 | 2349.3 | 2409.6 |
| 37.5°  | 2381.2 | 2037.0 | 2037.0 | 2232.2 | 2129.2 |
| 40°    | 2281.9 | 1934.1 | 1944.7 | 2079.5 | 1880.9 |
| 42.5°  | 2161.2 | 1824.0 | 1838.3 | 1877.3 | 1696.3 |
| 45°    | 2029.9 | 1717.6 | 1728.2 | 1586.3 | 1554.4 |
| 47.5°  | 1884.4 | 1607.6 | 1611.1 | 1316.6 | 1508.2 |
| 50°    | 1710.5 | 1494.0 | 1479.9 | 1128.5 | 1504.7 |
| 52.5°  | 1557.9 | 1369.8 | 1327.2 | 1022.0 | 1366.2 |
| 55°    | 1408.9 | 1238.5 | 1146.3 | 940.4  | 1266.9 |
| 57.5°  | 1277.5 | 1068.2 | 979.5  | 844.6  | 1245.6 |
| 60°    | 1156.9 | 901.4  | 834.0  | 741.7  | 1142.7 |
| 62.5°  | 1057.5 | 777.2  | 763.0  | 670.7  | 1036.2 |
| 65°    | 951.1  | 692.0  | 688.5  | 610.4  | 880.1  |
| 67.5°  | 848.1  | 635.2  | 631.6  | 553.6  | 670.7  |
| 70°    | 738.2  | 574.9  | 567.8  | 493.3  | 496.8  |
| 72.5°  | 624.6  | 507.5  | 500.4  | 443.6  | 411.7  |
| 75°    | 511.0  | 429.4  | 425.8  | 386.8  | 333.6  |
| 77.5°  | 401.0  | 340.7  | 347.7  | 312.3  | 244.9  |
| 80°    | 287.5  | 248.4  | 255.5  | 223.6  | 184.5  |
| 82.5°  | 191.6  | 163.2  | 170.4  | 141.9  | 124.2  |
| 85°    | 106.5  | 92.3   | 95.8   | 74.5   | 56.8   |
| 87.5°  | 49.7   | 42.6   | 42.6   | 28.4   | 17.7   |
| 90°    | 24.4   | 15.5   | 14.4   | 9.9    | 5.6    |
| 92.5°  | 150.1  | 106.8  | 97.4   | 59.7   | 22.1   |
| 95°    | 369.6  | 208.2  | 191.0  | 122.0  | 53.2   |
| 97.5°  | 497.9  | 228.7  | 213.4  | 152.7  | 91.9   |
| 100°   | 544.5  | 245.8  | 232.0  | 176.9  | 121.8  |
| 102.5° | 565.9  | 263.0  | 250.1  | 198.7  | 147.3  |
| 105°   | 581.8  | 288.4  | 277.5  | 233.9  | 190.4  |
| 107.5° | 584.8  | 326.1  | 316.0  | 275.3  | 234.8  |
| 110°   | 580.3  | 347.1  | 338.0  | 301.3  | 264.7  |



TEST NUMBER: P934454

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 580.5 | 372.5  | 363.8 | 328.8 | 293.9 |
| 115°   | 585.9 | 410.8  | 402.7 | 370.5 | 338.2 |
| 117.5° | 596.7 | 447.8  | 440.5 | 411.2 | 381.9 |
| 120°   | 605.6 | 469.4  | 462.5 | 435.0 | 407.5 |
| 122.5° | 618.4 | 494.9  | 487.9 | 460.2 | 432.3 |
| 125°   | 635.6 | 527.6  | 521.3 | 495.9 | 470.6 |
| 127.5° | 652.7 | 559.1  | 552.8 | 527.2 | 501.6 |
| 130°   | 665.2 | 580.2  | 573.3 | 545.8 | 518.2 |
| 132.5° | 675.4 | 597.4  | 590.5 | 562.9 | 535.3 |
| 135°   | 686.4 | 617.2  | 611.0 | 585.9 | 560.8 |
| 137.5° | 703.1 | 642.7  | 636.6 | 611.7 | 586.8 |
| 140°   | 713.2 | 659.8  | 654.1 | 631.3 | 608.4 |
| 142.5° | 721.7 | 672.6  | 667.4 | 646.1 | 625.0 |
| 145°   | 732.8 | 692.0  | 687.3 | 668.9 | 650.4 |
| 147.5° | 749.0 | 716.3  | 711.9 | 693.9 | 676.0 |
| 150°   | 757.5 | 729.1  | 725.0 | 708.7 | 692.5 |
| 152.5° | 763.1 | 737.4  | 734.3 | 722.0 | 709.7 |
| 155°   | 775.3 | 755.6  | 753.4 | 744.3 | 735.1 |
| 157.5° | 787.4 | 773.9  | 771.7 | 762.9 | 754.0 |
| 160°   | 793.0 | 782.2  | 780.5 | 773.6 | 766.7 |
| 162.5° | 798.9 | 791.1  | 789.8 | 784.7 | 779.5 |
| 165°   | 807.3 | 803.8  | 802.6 | 798.0 | 793.3 |
| 167.5° | 813.9 | 811.0  | 810.4 | 808.2 | 806.0 |
| 170°   | 819.5 | 819.3  | 818.8 | 816.5 | 814.4 |
| 172.5° | 819.8 | 819.8  | 819.7 | 819.2 | 818.8 |
| 175°   | 823.1 | 824.9  | 824.9 | 824.9 | 824.9 |
| 177.5° | 823.6 | 824.9  | 824.9 | 824.9 | 824.9 |
| 180°   | 824.9 | 824.9  | 824.9 | 824.9 | 824.9 |



TEST NUMBER: P934454  
 CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3500K

**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 | 14.57            | 15.58 | 15.39 | 16.42 | 17.47 | 17.42          | 18.43 | 18.24 | 19.28 | 20.32 |
|                 | 3H   | 15.06            | 15.96 | 15.89 | 16.82 | 17.89 | 18.79          | 19.69 | 19.62 | 20.54 | 21.62 |
|                 | 4H   | 15.26            | 16.11 | 16.11 | 16.97 | 18.06 | 19.24          | 20.10 | 20.09 | 20.96 | 22.04 |
|                 | 6H   | 15.38            | 16.17 | 16.25 | 17.04 | 18.14 | 19.54          | 20.33 | 20.40 | 21.20 | 22.29 |
|                 | 8H   | 15.39            | 16.14 | 16.26 | 17.03 | 18.13 | 19.62          | 20.37 | 20.49 | 21.26 | 22.36 |
|                 | 12H  | 15.37            | 16.08 | 16.24 | 16.96 | 18.09 | 19.67          | 20.38 | 20.55 | 21.26 | 22.39 |
| 4H              | 2H   | 15.63            | 16.48 | 16.48 | 17.34 | 18.43 | 17.85          | 18.70 | 18.70 | 19.56 | 20.65 |
|                 | 3H   | 16.67            | 17.38 | 17.54 | 18.27 | 19.38 | 19.37          | 20.09 | 20.24 | 20.98 | 22.08 |
|                 | 4H   | 16.95            | 17.60 | 17.83 | 18.49 | 19.62 | 19.91          | 20.56 | 20.79 | 21.45 | 22.58 |
|                 | 6H   | 17.08            | 17.64 | 17.98 | 18.56 | 19.69 | 20.29          | 20.85 | 21.19 | 21.77 | 22.90 |
|                 | 8H   | 17.09            | 17.62 | 17.99 | 18.52 | 19.67 | 20.41          | 20.93 | 21.30 | 21.84 | 22.98 |
|                 | 12H  | 17.07            | 17.54 | 17.98 | 18.47 | 19.62 | 20.47          | 20.94 | 21.39 | 21.87 | 23.02 |
| 8H              | 4H   | 17.42            | 17.94 | 18.32 | 18.85 | 20.00 | 20.05          | 20.57 | 20.95 | 21.48 | 22.63 |
|                 | 6H   | 17.69            | 18.12 | 18.61 | 19.07 | 20.21 | 20.50          | 20.93 | 21.42 | 21.88 | 23.02 |
|                 | 8H   | 17.73            | 18.11 | 18.67 | 19.06 | 20.22 | 20.65          | 21.04 | 21.59 | 21.98 | 23.14 |
|                 | 12H  | 17.72            | 18.06 | 18.66 | 18.99 | 20.21 | 20.76          | 21.10 | 21.70 | 22.04 | 23.25 |
| 12H             | 4H   | 17.43            | 17.90 | 18.35 | 18.83 | 19.98 | 20.02          | 20.49 | 20.94 | 21.42 | 22.57 |
|                 | 6H   | 17.75            | 18.13 | 18.68 | 19.08 | 20.24 | 20.50          | 20.88 | 21.43 | 21.82 | 22.98 |
|                 | 8H   | 17.82            | 18.16 | 18.76 | 19.10 | 20.31 | 20.67          | 21.01 | 21.61 | 21.94 | 23.15 |