

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: P936130

Luminaire Tested: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

Issue Date: 12/17/2024

**Test Information**

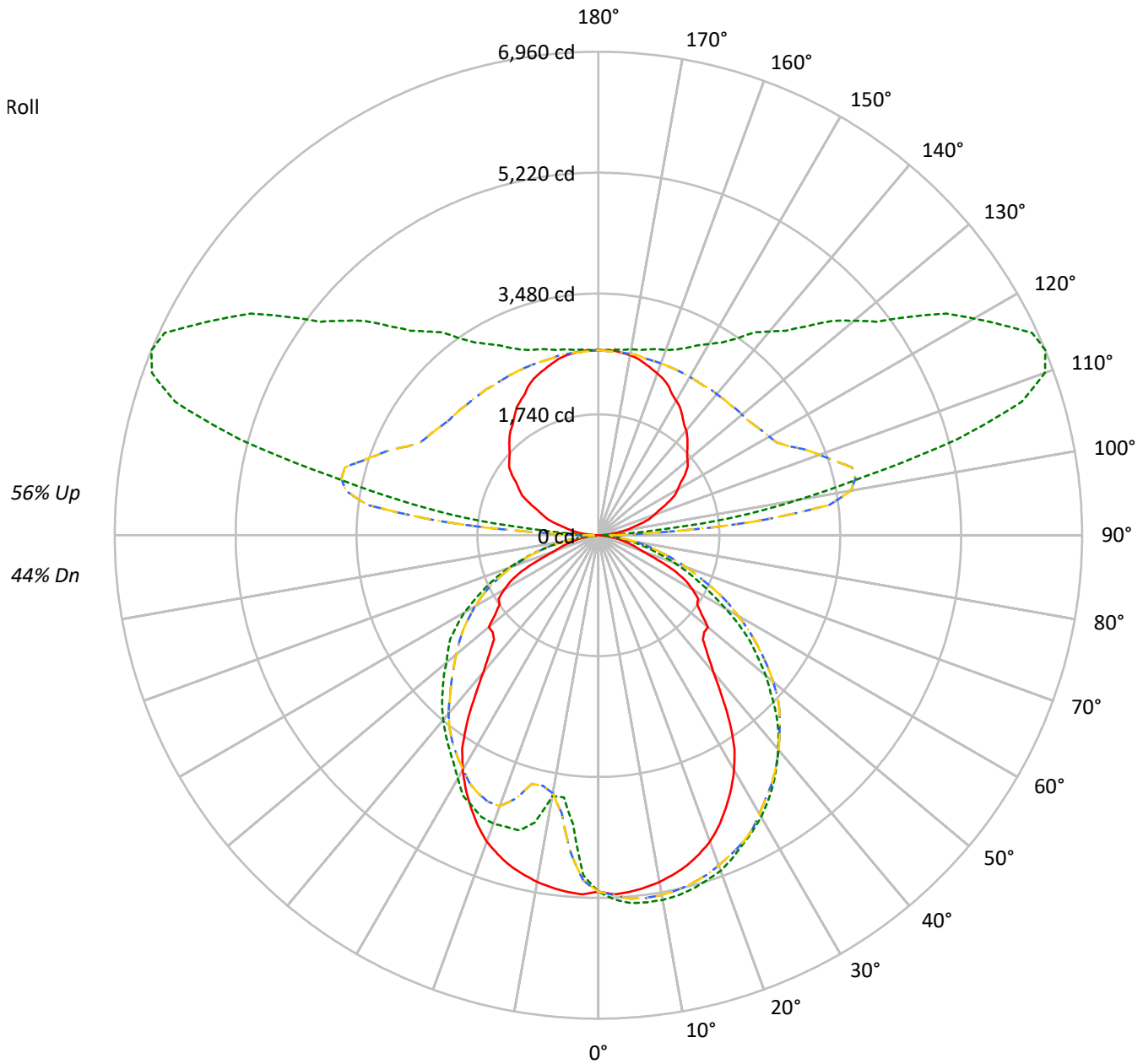
Test Method: LM-79-2019  
Report Number: P936130  
REPORT IS A COMBINATION OF REPORTS P933781 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30595.3 lumens  
Efficiency: N/A  
Efficacy: 122.6 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: General Diffuse  
  
Input Watts (W): 249.6  
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

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### Luminous Intensity Polar Plot



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



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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 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 44 | 44 | 44 | 44 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 42 | 37 | 37 | 37 | 37 |
| 2   | 88  | 80  | 74  | 69  | 80 | 74 | 69 | 64 | 61 | 58 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | 31 | 31 | 31 | 31 |
| 3   | 80  | 71  | 63  | 58  | 73 | 65 | 59 | 54 | 54 | 49 | 46 | 44 | 41 | 38 | 35 | 32 | 30 | 26 | 26 | 26 | 26 |
| 4   | 73  | 63  | 55  | 49  | 67 | 57 | 51 | 45 | 48 | 43 | 39 | 39 | 35 | 32 | 31 | 28 | 26 | 22 | 22 | 22 | 22 |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 19 | 19 | 19 | 19 |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 24 | 25 | 22 | 20 | 17 | 17 | 17 | 17 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 22 | 23 | 20 | 18 | 15 | 15 | 15 | 15 |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | 13 | 13 | 13 | 13 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 | 12 | 12 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 18 | 15 | 13 | 11 | 11 | 11 | 11 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 15870 | 15870 | 15870 | 15870 |
| 5°  | 15994 | 16020 | 15994 | 12597 |
| 10° | 15894 | 15781 | 15894 | 11282 |
| 15° | 15727 | 15439 | 15727 | 12892 |
| 20° | 15404 | 15034 | 15404 | 12919 |
| 25° | 14737 | 14443 | 14737 | 12645 |
| 30° | 13872 | 13953 | 13872 | 12044 |
| 35° | 12373 | 13332 | 12373 | 11383 |
| 40° | 10316 | 12602 | 10316 | 10884 |
| 45° | 9223  | 11747 | 9223  | 10310 |
| 50° | 9807  | 10728 | 9807  | 9734  |
| 55° | 9235  | 9629  | 9235  | 9401  |
| 60° | 9532  | 8178  | 9532  | 8610  |
| 65° | 8656  | 6761  | 8656  | 7557  |
| 70° | 6008  | 5387  | 6008  | 6334  |
| 75° | 5289  | 3983  | 5289  | 4769  |
| 80° | 4293  | 2633  | 4293  | 2867  |
| 85° | 2514  | 1395  | 2514  | 1185  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 14127 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 463.2   | 1.5       |
| 10°-20°   | 1315.0  | 4.3       |
| 20°-30°   | 2032.8  | 6.6       |
| 30°-40°   | 2426.7  | 7.9       |
| 40°-50°   | 2440.9  | 8.0       |
| 50°-60°   | 2123.9  | 6.9       |
| 60°-70°   | 1505.9  | 4.9       |
| 70°-80°   | 796.7   | 2.6       |
| 80°-90°   | 208.6   | 0.7       |
| 90°-100°  | 1299.5  | 4.2       |
| 100°-110° | 3416.4  | 11.2      |
| 110°-120° | 3542.4  | 11.6      |
| 120°-130° | 2841.4  | 9.3       |
| 130°-140° | 2229.5  | 7.3       |
| 140°-150° | 1711.2  | 5.6       |
| 150°-160° | 1232.4  | 4.0       |
| 160°-170° | 754.0   | 2.5       |
| 170°-180° | 254.8   | 0.8       |
| 0°-30°    | 3811.0  | 12.5      |
| 0°-40°    | 6237.7  | 20.4      |
| 0°-60°    | 10802.5 | 35.3      |
| 0°-90°    | 13313.7 | 43.5      |
| 90°-120°  | 8258.2  | 27.0      |
| 90°-150°  | 15040.4 | 49.2      |
| 90°-180°  | 17282.0 | 56.5      |
| 0°-180°   | 30595.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 5131 | 5131 | 5131 | 5131 | 5131 |      |
| 5°   | 5155 | 5315 | 5155 | 4180 | 5155 | 489  |
| 15°  | 4922 | 5267 | 4922 | 4398 | 4922 | 1385 |
| 25°  | 4335 | 4912 | 4335 | 4301 | 4335 | 1990 |
| 35°  | 3296 | 4383 | 3296 | 3743 | 3296 | 2039 |
| 45°  | 2126 | 3612 | 2126 | 3170 | 2126 | 1703 |
| 55°  | 1733 | 2665 | 1733 | 2602 | 1733 | 1592 |
| 65°  | 1204 | 1607 | 1204 | 1796 | 1204 | 1151 |
| 75°  | 456  | 762  | 456  | 913  | 456  | 480  |
| 85°  | 78   | 194  | 78   | 165  | 78   | 105  |
| 90°  | 18   | 68   | 18   | 68   | 18   | 18   |
| 95°  | 172  | 785  | 172  | 785  | 172  | 191  |
| 105° | 616  | 5350 | 616  | 5350 | 616  | 652  |
| 115° | 1093 | 6888 | 1093 | 6888 | 1093 | 1080 |
| 125° | 1521 | 5486 | 1521 | 5486 | 1521 | 1350 |
| 135° | 1812 | 4256 | 1812 | 4256 | 1812 | 1402 |
| 145° | 2102 | 3453 | 2102 | 3453 | 2102 | 1317 |
| 155° | 2376 | 2974 | 2376 | 2974 | 2376 | 1092 |
| 165° | 2564 | 2770 | 2564 | 2770 | 2564 | 724  |
| 175° | 2666 | 2684 | 2666 | 2684 | 2666 | 253  |
| 180° | 2666 | 2666 | 2666 | 2666 | 2666 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 |
| 2.5°   | 5174.6 | 5174.6 | 5203.7 | 5213.5 | 5213.5 | 5198.8 | 5184.3 | 5198.8 | 5242.5 | 5257.1 | 5252.3 |
| 5°     | 5155.1 | 5194.0 | 5247.4 | 5257.1 | 5266.8 | 5261.9 | 5252.3 | 5261.9 | 5310.5 | 5320.3 | 5325.0 |
| 7.5°   | 5116.3 | 5189.2 | 5257.1 | 5271.7 | 5286.2 | 5271.7 | 5266.8 | 5276.6 | 5325.0 | 5334.8 | 5334.8 |
| 10°    | 5067.8 | 5169.8 | 5247.4 | 5257.1 | 5271.7 | 5257.1 | 5257.1 | 5276.6 | 5325.0 | 5334.8 | 5339.7 |
| 12.5°  | 4999.8 | 5140.6 | 5213.5 | 5223.1 | 5242.5 | 5237.6 | 5232.9 | 5252.3 | 5300.8 | 5310.5 | 5310.5 |
| 15°    | 4922.2 | 5087.2 | 5155.1 | 5164.9 | 5198.8 | 5189.2 | 5189.2 | 5208.6 | 5261.9 | 5276.6 | 5271.7 |
| 17.5°  | 4815.4 | 5019.2 | 5096.9 | 5111.5 | 5135.7 | 5130.9 | 5135.7 | 5155.1 | 5203.7 | 5213.5 | 5218.2 |
| 20°    | 4694.0 | 4927.0 | 5019.2 | 5033.8 | 5058.1 | 5058.1 | 5058.1 | 5082.4 | 5130.9 | 5150.3 | 5150.3 |
| 22.5°  | 4529.0 | 4829.9 | 4927.0 | 4936.7 | 4965.9 | 4965.9 | 4975.6 | 5009.5 | 5053.2 | 5058.1 | 5058.1 |
| 25°    | 4334.8 | 4723.1 | 4805.6 | 4834.8 | 4864.0 | 4878.5 | 4893.0 | 4912.4 | 4927.0 | 4922.2 | 4927.0 |
| 27.5°  | 4130.9 | 4587.2 | 4694.0 | 4713.5 | 4752.3 | 4766.8 | 4786.2 | 4791.1 | 4796.0 | 4810.5 | 4800.9 |
| 30°    | 3902.8 | 4397.9 | 4558.1 | 4577.5 | 4640.6 | 4650.3 | 4630.9 | 4640.6 | 4664.9 | 4674.6 | 4684.3 |
| 32.5°  | 3645.5 | 4116.4 | 4417.3 | 4461.0 | 4519.3 | 4490.2 | 4485.3 | 4499.8 | 4538.7 | 4538.7 | 4548.4 |
| 35°    | 3296.0 | 3897.9 | 4286.2 | 4325.1 | 4368.8 | 4334.8 | 4354.2 | 4359.1 | 4383.4 | 4397.9 | 4393.0 |
| 37.5°  | 2912.6 | 3708.6 | 4150.4 | 4179.5 | 4213.5 | 4169.8 | 4198.9 | 4213.5 | 4232.9 | 4223.1 | 4223.1 |
| 40°    | 2572.7 | 3412.5 | 3990.2 | 4009.6 | 4038.7 | 4004.7 | 4033.9 | 4043.5 | 4053.3 | 4043.5 | 4038.7 |
| 42.5°  | 2320.3 | 3087.3 | 3820.3 | 3844.6 | 3825.2 | 3849.3 | 3859.1 | 3878.5 | 3864.0 | 3844.6 | 3844.6 |
| 45°    | 2126.1 | 2999.9 | 3635.8 | 3664.9 | 3635.8 | 3674.6 | 3689.2 | 3689.2 | 3645.5 | 3635.8 | 3631.0 |
| 47.5°  | 2063.1 | 2825.2 | 3451.4 | 3451.4 | 3436.7 | 3485.3 | 3509.6 | 3475.6 | 3432.0 | 3417.3 | 3417.3 |
| 50°    | 2058.2 | 2631.0 | 3198.9 | 3179.5 | 3247.4 | 3305.8 | 3281.5 | 3247.4 | 3213.5 | 3160.1 | 3160.1 |
| 52.5°  | 1868.9 | 2393.2 | 2873.6 | 2946.5 | 3053.3 | 3087.3 | 3048.4 | 3014.5 | 2956.2 | 2932.0 | 2912.6 |
| 55°    | 1732.9 | 2145.6 | 2577.6 | 2723.2 | 2834.8 | 2878.5 | 2805.8 | 2771.7 | 2684.4 | 2669.8 | 2660.1 |
| 57.5°  | 1703.8 | 1786.4 | 2305.8 | 2490.2 | 2626.1 | 2621.3 | 2577.6 | 2514.5 | 2441.6 | 2427.1 | 2422.2 |
| 60°    | 1563.1 | 1291.2 | 2014.5 | 2232.9 | 2373.7 | 2359.1 | 2320.3 | 2262.1 | 2194.1 | 2184.4 | 2174.7 |
| 62.5°  | 1417.5 | 936.9  | 1684.4 | 1932.0 | 2131.0 | 2126.1 | 2092.2 | 2004.8 | 1956.3 | 1932.0 | 1912.6 |
| 65°    | 1203.8 | 786.4  | 1199.0 | 1606.8 | 1893.2 | 1902.8 | 1830.1 | 1766.9 | 1713.5 | 1684.4 | 1679.6 |
| 67.5°  | 917.5  | 640.7  | 810.7  | 1339.7 | 1665.0 | 1655.3 | 1563.1 | 1533.9 | 1465.9 | 1451.4 | 1422.2 |
| 70°    | 679.6  | 427.1  | 563.1  | 1087.4 | 1441.7 | 1417.5 | 1344.6 | 1310.7 | 1247.5 | 1213.5 | 1194.1 |
| 72.5°  | 563.1  | 344.6  | 412.6  | 844.6  | 1213.5 | 1184.4 | 1121.3 | 1082.5 | 1029.1 | 1000.0 | 980.6  |
| 75°    | 456.3  | 364.0  | 315.5  | 626.2  | 985.4  | 965.9  | 907.7  | 868.9  | 825.2  | 786.4  | 791.2  |
| 77.5°  | 335.0  | 339.8  | 252.4  | 461.2  | 781.5  | 752.4  | 718.4  | 669.9  | 650.5  | 611.7  | 611.7  |
| 80°    | 252.4  | 267.0  | 189.3  | 315.5  | 563.1  | 563.1  | 533.9  | 500.0  | 466.0  | 446.5  | 446.5  |
| 82.5°  | 169.9  | 169.9  | 140.8  | 199.0  | 383.5  | 368.9  | 349.5  | 339.8  | 320.4  | 310.7  | 310.7  |
| 85°    | 77.6   | 97.1   | 87.4   | 121.3  | 208.7  | 218.4  | 218.4  | 208.7  | 203.9  | 194.2  | 199.0  |
| 87.5°  | 24.3   | 43.7   | 53.4   | 68.0   | 106.8  | 111.7  | 116.5  | 116.5  | 116.5  | 121.3  | 121.3  |
| 90°    | 17.9   | 32.2   | 46.6   | 50.1   | 78.7   | 116.8  | 136.0  | 120.9  | 90.6   | 68.0   | 68.0   |
| 92.5°  | 71.5   | 193.2  | 314.9  | 345.3  | 485.5  | 672.3  | 765.7  | 671.1  | 481.8  | 339.9  | 326.4  |
| 95°    | 171.7  | 394.3  | 617.0  | 672.7  | 1194.6 | 1890.4 | 2238.3 | 1997.3 | 1515.5 | 1154.0 | 1113.1 |
| 97.5°  | 297.0  | 493.4  | 689.8  | 738.9  | 1609.1 | 2769.2 | 3349.3 | 3197.0 | 2892.5 | 2664.0 | 2586.1 |
| 100°   | 393.6  | 571.7  | 749.8  | 794.4  | 1760.0 | 3047.3 | 3691.0 | 3702.1 | 3724.4 | 3741.1 | 3648.3 |
| 102.5° | 475.9  | 642.1  | 808.3  | 849.9  | 1829.1 | 3134.8 | 3787.7 | 3981.7 | 4369.7 | 4660.8 | 4581.2 |
| 105°   | 615.5  | 756.3  | 897.0  | 932.2  | 1880.4 | 3144.7 | 3776.9 | 4211.8 | 5081.8 | 5734.2 | 5691.5 |
| 107.5° | 758.6  | 889.8  | 1021.0 | 1053.8 | 1889.9 | 3004.7 | 3562.2 | 4168.9 | 5382.3 | 6292.4 | 6302.7 |
| 110°   | 855.2  | 973.7  | 1092.2 | 1121.8 | 1875.7 | 2880.7 | 3383.3 | 4061.6 | 5418.2 | 6435.6 | 6480.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 950.1  | 1063.0 | 1175.9 | 1204.1 | 1876.2 | 2772.4 | 3220.5 | 3914.7 | 5303.0 | 6344.3 | 6412.7 |
| 115°   | 1093.2 | 1197.3 | 1301.6 | 1327.6 | 1893.5 | 2648.2 | 3025.5 | 3694.3 | 5031.7 | 6034.8 | 6129.7 |
| 117.5° | 1234.5 | 1329.1 | 1423.8 | 1447.4 | 1928.6 | 2570.3 | 2891.2 | 3494.8 | 4701.9 | 5607.2 | 5712.4 |
| 120°   | 1316.8 | 1405.9 | 1494.9 | 1517.2 | 1957.3 | 2544.1 | 2837.6 | 3389.0 | 4491.9 | 5319.1 | 5421.3 |
| 122.5° | 1397.3 | 1487.2 | 1577.0 | 1599.5 | 1998.5 | 2530.5 | 2796.5 | 3293.0 | 4286.2 | 5031.1 | 5131.9 |
| 125°   | 1520.8 | 1602.7 | 1684.6 | 1705.1 | 2054.0 | 2519.2 | 2751.7 | 3173.6 | 4017.3 | 4650.0 | 4742.8 |
| 127.5° | 1620.9 | 1703.6 | 1786.4 | 1807.0 | 2109.4 | 2512.6 | 2714.2 | 3076.4 | 3800.8 | 4344.1 | 4422.4 |
| 130°   | 1674.7 | 1763.7 | 1852.7 | 1875.0 | 2149.9 | 2516.5 | 2699.8 | 3022.2 | 3667.2 | 4150.8 | 4223.2 |
| 132.5° | 1730.1 | 1819.2 | 1908.2 | 1930.5 | 2182.7 | 2519.1 | 2687.3 | 2976.0 | 3553.3 | 3986.3 | 4051.1 |
| 135°   | 1812.4 | 1893.5 | 1974.6 | 1994.9 | 2218.6 | 2516.8 | 2665.9 | 2907.6 | 3391.0 | 3753.6 | 3809.5 |
| 137.5° | 1896.5 | 1976.8 | 2057.2 | 2077.2 | 2272.2 | 2532.2 | 2662.2 | 2866.6 | 3275.3 | 3581.9 | 3627.6 |
| 140°   | 1966.3 | 2040.2 | 2114.2 | 2132.7 | 2305.0 | 2534.8 | 2649.7 | 2826.2 | 3179.3 | 3444.1 | 3486.9 |
| 142.5° | 2020.0 | 2088.3 | 2156.7 | 2173.8 | 2332.4 | 2544.0 | 2649.7 | 2804.8 | 3114.9 | 3347.5 | 3384.3 |
| 145°   | 2102.3 | 2162.0 | 2221.5 | 2236.4 | 2368.2 | 2544.0 | 2631.8 | 2758.6 | 3012.3 | 3202.6 | 3230.4 |
| 147.5° | 2184.5 | 2242.6 | 2300.6 | 2315.1 | 2420.7 | 2561.4 | 2631.8 | 2731.7 | 2931.2 | 3080.9 | 3104.0 |
| 150°   | 2238.3 | 2290.8 | 2343.2 | 2356.3 | 2448.1 | 2570.6 | 2631.8 | 2716.2 | 2884.7 | 3011.1 | 3029.8 |
| 152.5° | 2293.7 | 2333.5 | 2373.2 | 2383.1 | 2466.0 | 2576.6 | 2631.8 | 2703.8 | 2847.7 | 2955.7 | 2969.8 |
| 155°   | 2376.0 | 2405.5 | 2434.8 | 2442.2 | 2505.4 | 2589.7 | 2631.8 | 2689.1 | 2803.7 | 2889.5 | 2898.9 |
| 157.5° | 2436.9 | 2465.4 | 2494.0 | 2501.2 | 2544.7 | 2602.8 | 2631.8 | 2676.4 | 2765.4 | 2832.2 | 2838.8 |
| 160°   | 2478.0 | 2500.3 | 2522.5 | 2528.1 | 2562.7 | 2608.8 | 2631.8 | 2670.0 | 2746.3 | 2803.6 | 2807.4 |
| 162.5° | 2519.1 | 2535.8 | 2552.5 | 2556.7 | 2581.7 | 2615.1 | 2631.8 | 2664.0 | 2728.5 | 2776.8 | 2780.3 |
| 165°   | 2563.8 | 2578.9 | 2594.1 | 2597.9 | 2609.2 | 2624.3 | 2631.8 | 2654.9 | 2701.0 | 2735.6 | 2739.4 |
| 167.5° | 2605.1 | 2612.2 | 2619.3 | 2621.1 | 2630.7 | 2643.4 | 2649.7 | 2664.8 | 2695.0 | 2717.7 | 2719.3 |
| 170°   | 2631.8 | 2639.0 | 2646.2 | 2648.0 | 2648.6 | 2649.3 | 2649.7 | 2664.8 | 2695.0 | 2717.7 | 2717.7 |
| 172.5° | 2646.2 | 2647.7 | 2649.3 | 2649.7 | 2649.7 | 2649.7 | 2649.7 | 2661.7 | 2685.6 | 2703.4 | 2702.0 |
| 175°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2660.5 | 2653.3 | 2649.7 | 2657.3 | 2672.4 | 2683.7 | 2683.7 |
| 177.5° | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2661.7 | 2656.1 | 2653.3 | 2659.3 | 2671.2 | 2680.1 | 2678.5 |
| 180°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |



TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 |
| 2.5°   | 5261.9 | 5247.4 | 5261.9 | 5252.3 | 5257.1 | 5242.5 | 5198.8 | 5184.3 | 5198.8 | 5213.5 | 5213.5 |
| 5°     | 5325.0 | 5315.4 | 5325.0 | 5325.0 | 5320.3 | 5310.5 | 5261.9 | 5252.3 | 5261.9 | 5266.8 | 5257.1 |
| 7.5°   | 5344.4 | 5329.9 | 5344.4 | 5334.8 | 5334.8 | 5325.0 | 5276.6 | 5266.8 | 5271.7 | 5286.2 | 5271.7 |
| 10°    | 5344.4 | 5329.9 | 5344.4 | 5339.7 | 5334.8 | 5325.0 | 5276.6 | 5257.1 | 5257.1 | 5271.7 | 5257.1 |
| 12.5°  | 5320.3 | 5310.5 | 5320.3 | 5310.5 | 5310.5 | 5300.8 | 5252.3 | 5232.9 | 5237.6 | 5242.5 | 5223.1 |
| 15°    | 5281.3 | 5266.8 | 5281.3 | 5271.7 | 5276.6 | 5261.9 | 5208.6 | 5189.2 | 5189.2 | 5198.8 | 5164.9 |
| 17.5°  | 5223.1 | 5203.7 | 5223.1 | 5218.2 | 5213.5 | 5203.7 | 5155.1 | 5135.7 | 5130.9 | 5135.7 | 5111.5 |
| 20°    | 5155.1 | 5140.6 | 5155.1 | 5150.3 | 5150.3 | 5130.9 | 5082.4 | 5058.1 | 5058.1 | 5058.1 | 5033.8 |
| 22.5°  | 5048.4 | 5033.8 | 5048.4 | 5058.1 | 5058.1 | 5053.2 | 5009.5 | 4975.6 | 4965.9 | 4965.9 | 4936.7 |
| 25°    | 4927.0 | 4912.4 | 4927.0 | 4927.0 | 4922.2 | 4927.0 | 4912.4 | 4893.0 | 4878.5 | 4864.0 | 4834.8 |
| 27.5°  | 4810.5 | 4800.9 | 4810.5 | 4800.9 | 4810.5 | 4796.0 | 4791.1 | 4786.2 | 4766.8 | 4752.3 | 4713.5 |
| 30°    | 4694.0 | 4684.3 | 4694.0 | 4684.3 | 4674.6 | 4664.9 | 4640.6 | 4630.9 | 4650.3 | 4640.6 | 4577.5 |
| 32.5°  | 4548.4 | 4538.7 | 4548.4 | 4548.4 | 4538.7 | 4538.7 | 4499.8 | 4485.3 | 4490.2 | 4519.3 | 4461.0 |
| 35°    | 4397.9 | 4383.4 | 4397.9 | 4393.0 | 4397.9 | 4383.4 | 4359.1 | 4354.2 | 4334.8 | 4368.8 | 4325.1 |
| 37.5°  | 4223.1 | 4208.6 | 4223.1 | 4223.1 | 4223.1 | 4232.9 | 4213.5 | 4198.9 | 4169.8 | 4213.5 | 4179.5 |
| 40°    | 4043.5 | 4024.1 | 4043.5 | 4038.7 | 4043.5 | 4053.3 | 4043.5 | 4033.9 | 4004.7 | 4038.7 | 4009.6 |
| 42.5°  | 3839.7 | 3834.8 | 3839.7 | 3844.6 | 3844.6 | 3864.0 | 3878.5 | 3859.1 | 3849.3 | 3825.2 | 3844.6 |
| 45°    | 3621.2 | 3611.5 | 3621.2 | 3631.0 | 3635.8 | 3645.5 | 3689.2 | 3689.2 | 3674.6 | 3635.8 | 3664.9 |
| 47.5°  | 3388.3 | 3364.0 | 3388.3 | 3417.3 | 3417.3 | 3432.0 | 3475.6 | 3509.6 | 3485.3 | 3436.7 | 3451.4 |
| 50°    | 3140.7 | 3145.5 | 3140.7 | 3160.1 | 3160.1 | 3213.5 | 3247.4 | 3281.5 | 3305.8 | 3247.4 | 3179.5 |
| 52.5°  | 2897.9 | 2893.2 | 2897.9 | 2912.6 | 2932.0 | 2956.2 | 3014.5 | 3048.4 | 3087.3 | 3053.3 | 2946.5 |
| 55°    | 2655.3 | 2665.0 | 2655.3 | 2660.1 | 2669.8 | 2684.4 | 2771.7 | 2805.8 | 2878.5 | 2834.8 | 2723.2 |
| 57.5°  | 2412.6 | 2397.9 | 2412.6 | 2422.2 | 2427.1 | 2441.6 | 2514.5 | 2577.6 | 2621.3 | 2626.1 | 2490.2 |
| 60°    | 2131.0 | 2111.6 | 2131.0 | 2174.7 | 2184.4 | 2194.1 | 2262.1 | 2320.3 | 2359.1 | 2373.7 | 2232.9 |
| 62.5°  | 1883.4 | 1849.5 | 1883.4 | 1912.6 | 1932.0 | 1956.3 | 2004.8 | 2092.2 | 2126.1 | 2131.0 | 1932.0 |
| 65°    | 1621.3 | 1606.8 | 1621.3 | 1679.6 | 1684.4 | 1713.5 | 1766.9 | 1830.1 | 1902.8 | 1893.2 | 1606.8 |
| 67.5°  | 1383.4 | 1383.4 | 1383.4 | 1422.2 | 1451.4 | 1465.9 | 1533.9 | 1563.1 | 1655.3 | 1665.0 | 1339.7 |
| 70°    | 1165.0 | 1160.1 | 1165.0 | 1194.1 | 1213.5 | 1247.5 | 1310.7 | 1344.6 | 1417.5 | 1441.7 | 1087.4 |
| 72.5°  | 956.3  | 951.4  | 956.3  | 980.6  | 1000.0 | 1029.1 | 1082.5 | 1121.3 | 1184.4 | 1213.5 | 844.6  |
| 75°    | 771.8  | 762.1  | 771.8  | 791.2  | 786.4  | 825.2  | 868.9  | 907.7  | 965.9  | 985.4  | 626.2  |
| 77.5°  | 592.2  | 592.2  | 592.2  | 611.7  | 611.7  | 650.5  | 669.9  | 718.4  | 752.4  | 781.5  | 461.2  |
| 80°    | 441.8  | 436.9  | 441.8  | 446.5  | 446.5  | 466.0  | 500.0  | 533.9  | 563.1  | 563.1  | 315.5  |
| 82.5°  | 310.7  | 300.9  | 310.7  | 310.7  | 310.7  | 320.4  | 339.8  | 349.5  | 368.9  | 383.5  | 199.0  |
| 85°    | 194.2  | 194.2  | 194.2  | 199.0  | 194.2  | 203.9  | 208.7  | 218.4  | 218.4  | 208.7  | 121.3  |
| 87.5°  | 126.2  | 121.3  | 126.2  | 121.3  | 121.3  | 116.5  | 116.5  | 116.5  | 111.7  | 106.8  | 68.0   |
| 90°    | 68.0   | 68.0   | 68.0   | 68.0   | 68.0   | 90.6   | 120.9  | 136.0  | 116.8  | 78.7   | 50.1   |
| 92.5°  | 272.3  | 218.3  | 272.3  | 326.4  | 339.9  | 481.8  | 671.1  | 765.7  | 672.3  | 485.5  | 345.3  |
| 95°    | 949.2  | 785.4  | 949.2  | 1113.1 | 1154.0 | 1515.5 | 1997.3 | 2238.3 | 1890.4 | 1194.6 | 672.7  |
| 97.5°  | 2274.4 | 1962.7 | 2274.4 | 2586.1 | 2664.0 | 2892.5 | 3197.0 | 3349.3 | 2769.2 | 1609.1 | 738.9  |
| 100°   | 3277.0 | 2905.6 | 3277.0 | 3648.3 | 3741.1 | 3724.4 | 3702.1 | 3691.0 | 3047.3 | 1760.0 | 794.4  |
| 102.5° | 4263.2 | 3945.1 | 4263.2 | 4581.2 | 4660.8 | 4369.7 | 3981.7 | 3787.7 | 3134.8 | 1829.1 | 849.9  |
| 105°   | 5520.6 | 5349.6 | 5520.6 | 5691.5 | 5734.2 | 5081.8 | 4211.8 | 3776.9 | 3144.7 | 1880.4 | 932.2  |
| 107.5° | 6344.1 | 6385.5 | 6344.1 | 6302.7 | 6292.4 | 5382.3 | 4168.9 | 3562.2 | 3004.7 | 1889.9 | 1053.8 |
| 110°   | 6658.3 | 6836.4 | 6658.3 | 6480.1 | 6435.6 | 5418.2 | 4061.6 | 3383.3 | 2880.7 | 1875.7 | 1121.8 |





TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 6686.3 | 6959.8 | 6686.3 | 6412.7 | 6344.3 | 5303.0 | 3914.7 | 3220.5 | 2772.4 | 1876.2 | 1204.1 |
| 115°   | 6508.9 | 6888.2 | 6508.9 | 6129.7 | 6034.8 | 5031.7 | 3694.3 | 3025.5 | 2648.2 | 1893.5 | 1327.6 |
| 117.5° | 6133.0 | 6553.7 | 6133.0 | 5712.4 | 5607.2 | 4701.9 | 3494.8 | 2891.2 | 2570.3 | 1928.6 | 1447.4 |
| 120°   | 5830.0 | 6238.8 | 5830.0 | 5421.3 | 5319.1 | 4491.9 | 3389.0 | 2837.6 | 2544.1 | 1957.3 | 1517.2 |
| 122.5° | 5535.1 | 5938.2 | 5535.1 | 5131.9 | 5031.1 | 4286.2 | 3293.0 | 2796.5 | 2530.5 | 1998.5 | 1599.5 |
| 125°   | 5114.2 | 5485.6 | 5114.2 | 4742.8 | 4650.0 | 4017.3 | 3173.6 | 2751.7 | 2519.2 | 2054.0 | 1705.1 |
| 127.5° | 4735.7 | 5049.0 | 4735.7 | 4422.4 | 4344.1 | 3800.8 | 3076.4 | 2714.2 | 2512.6 | 2109.4 | 1807.0 |
| 130°   | 4512.7 | 4802.1 | 4512.7 | 4223.2 | 4150.8 | 3667.2 | 3022.2 | 2699.8 | 2516.5 | 2149.9 | 1875.0 |
| 132.5° | 4310.2 | 4569.5 | 4310.2 | 4051.1 | 3986.3 | 3553.3 | 2976.0 | 2687.3 | 2519.1 | 2182.7 | 1930.5 |
| 135°   | 4032.9 | 4256.4 | 4032.9 | 3809.5 | 3753.6 | 3391.0 | 2907.6 | 2665.9 | 2516.8 | 2218.6 | 1994.9 |
| 137.5° | 3810.5 | 3993.3 | 3810.5 | 3627.6 | 3581.9 | 3275.3 | 2866.6 | 2662.2 | 2532.2 | 2272.2 | 2077.2 |
| 140°   | 3657.8 | 3828.8 | 3657.8 | 3486.9 | 3444.1 | 3179.3 | 2826.2 | 2649.7 | 2534.8 | 2305.0 | 2132.7 |
| 142.5° | 3531.4 | 3678.5 | 3531.4 | 3384.3 | 3347.5 | 3114.9 | 2804.8 | 2649.7 | 2544.0 | 2332.4 | 2173.8 |
| 145°   | 3341.8 | 3453.1 | 3341.8 | 3230.4 | 3202.6 | 3012.3 | 2758.6 | 2631.8 | 2544.0 | 2368.2 | 2236.4 |
| 147.5° | 3196.3 | 3288.4 | 3196.3 | 3104.0 | 3080.9 | 2931.2 | 2731.7 | 2631.8 | 2561.4 | 2420.7 | 2315.1 |
| 150°   | 3104.6 | 3179.3 | 3104.6 | 3029.8 | 3011.1 | 2884.7 | 2716.2 | 2631.8 | 2570.6 | 2448.1 | 2356.3 |
| 152.5° | 3026.3 | 3082.7 | 3026.3 | 2969.8 | 2955.7 | 2847.7 | 2703.8 | 2631.8 | 2576.6 | 2466.0 | 2383.1 |
| 155°   | 2936.2 | 2973.6 | 2936.2 | 2898.9 | 2889.5 | 2803.7 | 2689.1 | 2631.8 | 2589.7 | 2505.4 | 2442.2 |
| 157.5° | 2865.0 | 2891.2 | 2865.0 | 2838.8 | 2832.2 | 2765.4 | 2676.4 | 2631.8 | 2602.8 | 2544.7 | 2501.2 |
| 160°   | 2822.5 | 2837.6 | 2822.5 | 2807.4 | 2803.6 | 2746.3 | 2670.0 | 2631.8 | 2608.8 | 2562.7 | 2528.1 |
| 162.5° | 2794.7 | 2809.0 | 2794.7 | 2780.3 | 2776.8 | 2728.5 | 2664.0 | 2631.8 | 2615.1 | 2581.7 | 2556.7 |
| 165°   | 2754.5 | 2769.6 | 2754.5 | 2739.4 | 2735.6 | 2701.0 | 2654.9 | 2631.8 | 2624.3 | 2609.2 | 2597.9 |
| 167.5° | 2725.6 | 2732.0 | 2725.6 | 2719.3 | 2717.7 | 2695.0 | 2664.8 | 2649.7 | 2643.4 | 2630.7 | 2621.1 |
| 170°   | 2717.7 | 2717.7 | 2717.7 | 2717.7 | 2717.7 | 2695.0 | 2664.8 | 2649.7 | 2649.3 | 2648.6 | 2648.0 |
| 172.5° | 2696.5 | 2690.9 | 2696.5 | 2702.0 | 2703.4 | 2685.6 | 2661.7 | 2649.7 | 2649.7 | 2649.7 | 2649.7 |
| 175°   | 2683.7 | 2683.7 | 2683.7 | 2683.7 | 2683.7 | 2672.4 | 2657.3 | 2649.7 | 2653.3 | 2660.5 | 2665.9 |
| 177.5° | 2672.2 | 2665.9 | 2672.2 | 2678.5 | 2680.1 | 2671.2 | 2659.3 | 2653.3 | 2656.1 | 2661.7 | 2665.9 |
| 180°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |



TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 |
| 2.5°   | 5203.7 | 5174.6 | 5174.6 | 5126.1 | 5106.6 | 5092.1 | 5067.8 | 4995.0 | 4975.6 | 4956.1 | 4985.3 |
| 5°     | 5247.4 | 5194.0 | 5155.1 | 5067.8 | 4995.0 | 4965.9 | 4873.6 | 4698.8 | 4582.4 | 4495.0 | 4446.5 |
| 7.5°   | 5257.1 | 5189.2 | 5116.3 | 4980.4 | 4805.6 | 4728.0 | 4446.5 | 4126.1 | 4038.7 | 3961.0 | 3912.5 |
| 10°    | 5247.4 | 5169.8 | 5067.8 | 4864.0 | 4451.3 | 4315.4 | 4033.9 | 3825.2 | 3771.7 | 3757.2 | 3771.7 |
| 12.5°  | 5213.5 | 5140.6 | 4999.8 | 4660.0 | 4082.4 | 3990.2 | 3825.2 | 3703.7 | 3694.1 | 3718.3 | 3849.3 |
| 15°    | 5155.1 | 5087.2 | 4922.2 | 4388.2 | 3878.5 | 3810.5 | 3694.1 | 3650.4 | 3703.7 | 3873.6 | 4266.8 |
| 17.5°  | 5096.9 | 5019.2 | 4815.4 | 4121.2 | 3723.2 | 3674.6 | 3592.1 | 3679.5 | 3980.4 | 4208.6 | 4339.7 |
| 20°    | 5019.2 | 4927.0 | 4694.0 | 3927.1 | 3611.5 | 3567.8 | 3529.0 | 3922.2 | 4150.4 | 4232.9 | 4305.6 |
| 22.5°  | 4927.0 | 4829.9 | 4529.0 | 3791.1 | 3495.1 | 3461.0 | 3485.3 | 4058.1 | 4150.4 | 4208.6 | 4271.7 |
| 25°    | 4805.6 | 4723.1 | 4334.8 | 3684.3 | 3402.8 | 3364.0 | 3456.2 | 4043.5 | 4096.9 | 4111.5 | 4237.8 |
| 27.5°  | 4694.0 | 4587.2 | 4130.9 | 3587.3 | 3291.1 | 3276.6 | 3480.4 | 3980.4 | 4019.3 | 4033.9 | 4169.8 |
| 30°    | 4558.1 | 4397.9 | 3902.8 | 3485.3 | 3174.7 | 3169.8 | 3485.3 | 3902.8 | 3893.0 | 3931.9 | 4067.8 |
| 32.5°  | 4417.3 | 4116.4 | 3645.5 | 3359.1 | 3063.0 | 3058.2 | 3451.4 | 3786.2 | 3776.6 | 3829.9 | 3931.9 |
| 35°    | 4286.2 | 3897.9 | 3296.0 | 3213.5 | 2922.2 | 2927.1 | 3368.9 | 3650.4 | 3655.2 | 3703.7 | 3766.8 |
| 37.5°  | 4150.4 | 3708.6 | 2912.6 | 3053.3 | 2786.3 | 2786.3 | 3257.2 | 3524.1 | 3514.5 | 3529.0 | 3616.4 |
| 40°    | 3990.2 | 3412.5 | 2572.7 | 2844.6 | 2660.1 | 2645.5 | 3121.3 | 3388.3 | 3354.2 | 3349.4 | 3470.8 |
| 42.5°  | 3820.3 | 3087.3 | 2320.3 | 2567.9 | 2514.5 | 2495.1 | 2956.2 | 3223.2 | 3160.1 | 3174.7 | 3329.9 |
| 45°    | 3635.8 | 2999.9 | 2126.1 | 2169.8 | 2364.0 | 2349.5 | 2776.6 | 3033.9 | 2990.2 | 3029.0 | 3189.2 |
| 47.5°  | 3451.4 | 2825.2 | 2063.1 | 1800.9 | 2203.8 | 2199.0 | 2577.6 | 2849.5 | 2825.2 | 2864.0 | 3033.9 |
| 50°    | 3198.9 | 2631.0 | 2058.2 | 1543.7 | 2024.2 | 2043.6 | 2339.7 | 2669.8 | 2669.8 | 2703.8 | 2883.4 |
| 52.5°  | 2873.6 | 2393.2 | 1868.9 | 1398.0 | 1815.4 | 1873.8 | 2131.0 | 2514.5 | 2524.2 | 2558.2 | 2718.4 |
| 55°    | 2577.6 | 2145.6 | 1732.9 | 1286.4 | 1567.9 | 1694.1 | 1927.1 | 2354.2 | 2373.7 | 2407.7 | 2553.3 |
| 57.5°  | 2305.8 | 1786.4 | 1703.8 | 1155.3 | 1339.7 | 1461.2 | 1747.5 | 2199.0 | 2208.7 | 2237.8 | 2378.5 |
| 60°    | 2014.5 | 1291.2 | 1563.1 | 1014.5 | 1140.7 | 1233.0 | 1582.5 | 2014.5 | 2048.5 | 2067.9 | 2189.2 |
| 62.5°  | 1684.4 | 936.9  | 1417.5 | 917.5  | 1043.7 | 1063.1 | 1446.5 | 1839.7 | 1883.4 | 1897.9 | 1970.8 |
| 65°    | 1199.0 | 786.4  | 1203.8 | 834.9  | 941.8  | 946.5  | 1300.9 | 1660.1 | 1699.0 | 1723.3 | 1776.6 |
| 67.5°  | 810.7  | 640.7  | 917.5  | 757.2  | 864.0  | 868.9  | 1160.1 | 1451.4 | 1504.8 | 1524.3 | 1558.2 |
| 70°    | 563.1  | 427.1  | 679.6  | 674.7  | 776.7  | 786.4  | 1009.6 | 1262.1 | 1310.7 | 1325.2 | 1344.6 |
| 72.5°  | 412.6  | 344.6  | 563.1  | 606.8  | 684.4  | 694.2  | 854.4  | 1048.5 | 1097.0 | 1111.6 | 1121.3 |
| 75°    | 315.5  | 364.0  | 456.3  | 529.1  | 582.5  | 587.4  | 699.0  | 854.4  | 888.3  | 898.1  | 902.8  |
| 77.5°  | 252.4  | 339.8  | 335.0  | 427.1  | 475.7  | 466.0  | 548.6  | 660.2  | 689.3  | 689.3  | 689.3  |
| 80°    | 189.3  | 267.0  | 252.4  | 305.8  | 349.5  | 339.8  | 393.2  | 470.8  | 480.6  | 490.2  | 485.5  |
| 82.5°  | 140.8  | 169.9  | 169.9  | 194.2  | 233.0  | 223.3  | 262.1  | 305.8  | 305.8  | 305.8  | 315.5  |
| 85°    | 87.4   | 97.1   | 77.6   | 101.9  | 131.1  | 126.2  | 145.6  | 165.0  | 169.9  | 169.9  | 160.2  |
| 87.5°  | 53.4   | 43.7   | 24.3   | 38.8   | 58.2   | 58.2   | 68.0   | 72.8   | 68.0   | 68.0   | 68.0   |
| 90°    | 46.6   | 32.2   | 17.9   | 32.2   | 46.6   | 50.1   | 78.7   | 116.8  | 136.0  | 120.9  | 90.6   |
| 92.5°  | 314.9  | 193.2  | 71.5   | 193.2  | 314.9  | 345.3  | 485.5  | 672.3  | 765.7  | 671.1  | 481.8  |
| 95°    | 617.0  | 394.3  | 171.7  | 394.3  | 617.0  | 672.7  | 1194.6 | 1890.4 | 2238.3 | 1997.3 | 1515.5 |
| 97.5°  | 689.8  | 493.4  | 297.0  | 493.4  | 689.8  | 738.9  | 1609.1 | 2769.2 | 3349.3 | 3197.0 | 2892.5 |
| 100°   | 749.8  | 571.7  | 393.6  | 571.7  | 749.8  | 794.4  | 1760.0 | 3047.3 | 3691.0 | 3702.1 | 3724.4 |
| 102.5° | 808.3  | 642.1  | 475.9  | 642.1  | 808.3  | 849.9  | 1829.1 | 3134.8 | 3787.7 | 3981.7 | 4369.7 |
| 105°   | 897.0  | 756.3  | 615.5  | 756.3  | 897.0  | 932.2  | 1880.4 | 3144.7 | 3776.9 | 4211.8 | 5081.8 |
| 107.5° | 1021.0 | 889.8  | 758.6  | 889.8  | 1021.0 | 1053.8 | 1889.9 | 3004.7 | 3562.2 | 4168.9 | 5382.3 |
| 110°   | 1092.2 | 973.7  | 855.2  | 973.7  | 1092.2 | 1121.8 | 1875.7 | 2880.7 | 3383.3 | 4061.6 | 5418.2 |



TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1175.9 | 1063.0 | 950.1  | 1063.0 | 1175.9 | 1204.1 | 1876.2 | 2772.4 | 3220.5 | 3914.7 | 5303.0 |
| 115°   | 1301.6 | 1197.3 | 1093.2 | 1197.3 | 1301.6 | 1327.6 | 1893.5 | 2648.2 | 3025.5 | 3694.3 | 5031.7 |
| 117.5° | 1423.8 | 1329.1 | 1234.5 | 1329.1 | 1423.8 | 1447.4 | 1928.6 | 2570.3 | 2891.2 | 3494.8 | 4701.9 |
| 120°   | 1494.9 | 1405.9 | 1316.8 | 1405.9 | 1494.9 | 1517.2 | 1957.3 | 2544.1 | 2837.6 | 3389.0 | 4491.9 |
| 122.5° | 1577.0 | 1487.2 | 1397.3 | 1487.2 | 1577.0 | 1599.5 | 1998.5 | 2530.5 | 2796.5 | 3293.0 | 4286.2 |
| 125°   | 1684.6 | 1602.7 | 1520.8 | 1602.7 | 1684.6 | 1705.1 | 2054.0 | 2519.2 | 2751.7 | 3173.6 | 4017.3 |
| 127.5° | 1786.4 | 1703.6 | 1620.9 | 1703.6 | 1786.4 | 1807.0 | 2109.4 | 2512.6 | 2714.2 | 3076.4 | 3800.8 |
| 130°   | 1852.7 | 1763.7 | 1674.7 | 1763.7 | 1852.7 | 1875.0 | 2149.9 | 2516.5 | 2699.8 | 3022.2 | 3667.2 |
| 132.5° | 1908.2 | 1819.2 | 1730.1 | 1819.2 | 1908.2 | 1930.5 | 2182.7 | 2519.1 | 2687.3 | 2976.0 | 3553.3 |
| 135°   | 1974.6 | 1893.5 | 1812.4 | 1893.5 | 1974.6 | 1994.9 | 2218.6 | 2516.8 | 2665.9 | 2907.6 | 3391.0 |
| 137.5° | 2057.2 | 1976.8 | 1896.5 | 1976.8 | 2057.2 | 2077.2 | 2272.2 | 2532.2 | 2662.2 | 2866.6 | 3275.3 |
| 140°   | 2114.2 | 2040.2 | 1966.3 | 2040.2 | 2114.2 | 2132.7 | 2305.0 | 2534.8 | 2649.7 | 2826.2 | 3179.3 |
| 142.5° | 2156.7 | 2088.3 | 2020.0 | 2088.3 | 2156.7 | 2173.8 | 2332.4 | 2544.0 | 2649.7 | 2804.8 | 3114.9 |
| 145°   | 2221.5 | 2162.0 | 2102.3 | 2162.0 | 2221.5 | 2236.4 | 2368.2 | 2544.0 | 2631.8 | 2758.6 | 3012.3 |
| 147.5° | 2300.6 | 2242.6 | 2184.5 | 2242.6 | 2300.6 | 2315.1 | 2420.7 | 2561.4 | 2631.8 | 2731.7 | 2931.2 |
| 150°   | 2343.2 | 2290.8 | 2238.3 | 2290.8 | 2343.2 | 2356.3 | 2448.1 | 2570.6 | 2631.8 | 2716.2 | 2884.7 |
| 152.5° | 2373.2 | 2333.5 | 2293.7 | 2333.5 | 2373.2 | 2383.1 | 2466.0 | 2576.6 | 2631.8 | 2703.8 | 2847.7 |
| 155°   | 2434.8 | 2405.5 | 2376.0 | 2405.5 | 2434.8 | 2442.2 | 2505.4 | 2589.7 | 2631.8 | 2689.1 | 2803.7 |
| 157.5° | 2494.0 | 2465.4 | 2436.9 | 2465.4 | 2494.0 | 2501.2 | 2544.7 | 2602.8 | 2631.8 | 2676.4 | 2765.4 |
| 160°   | 2522.5 | 2500.3 | 2478.0 | 2500.3 | 2522.5 | 2528.1 | 2562.7 | 2608.8 | 2631.8 | 2670.0 | 2746.3 |
| 162.5° | 2552.5 | 2535.8 | 2519.1 | 2535.8 | 2552.5 | 2556.7 | 2581.7 | 2615.1 | 2631.8 | 2664.0 | 2728.5 |
| 165°   | 2594.1 | 2578.9 | 2563.8 | 2578.9 | 2594.1 | 2597.9 | 2609.2 | 2624.3 | 2631.8 | 2654.9 | 2701.0 |
| 167.5° | 2619.3 | 2612.2 | 2605.1 | 2612.2 | 2619.3 | 2621.1 | 2630.7 | 2643.4 | 2649.7 | 2664.8 | 2695.0 |
| 170°   | 2646.2 | 2639.0 | 2631.8 | 2639.0 | 2646.2 | 2648.0 | 2648.6 | 2649.3 | 2649.7 | 2664.8 | 2695.0 |
| 172.5° | 2649.3 | 2647.7 | 2646.2 | 2647.7 | 2649.3 | 2649.7 | 2649.7 | 2649.7 | 2649.7 | 2661.7 | 2685.6 |
| 175°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2660.5 | 2653.3 | 2649.7 | 2657.3 | 2672.4 |
| 177.5° | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2661.7 | 2656.1 | 2653.3 | 2659.3 | 2671.2 |
| 180°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |



TEST NUMBER: P936130  
 CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 |
| 2.5°   | 4951.3 | 4936.7 | 4956.1 | 4902.8 | 4956.1 | 4936.7 | 4951.3 | 4985.3 | 4956.1 | 4975.6 | 4995.0 |
| 5°     | 4344.6 | 4320.3 | 4242.5 | 4179.5 | 4242.5 | 4320.3 | 4344.6 | 4446.5 | 4495.0 | 4582.4 | 4698.8 |
| 7.5°   | 3883.4 | 3864.0 | 3844.6 | 3805.7 | 3844.6 | 3864.0 | 3883.4 | 3912.5 | 3961.0 | 4038.7 | 4126.1 |
| 10°    | 3781.5 | 3786.2 | 3815.4 | 3810.5 | 3815.4 | 3786.2 | 3781.5 | 3771.7 | 3757.2 | 3771.7 | 3825.2 |
| 12.5°  | 4043.5 | 4087.2 | 4247.4 | 4237.8 | 4247.4 | 4087.2 | 4043.5 | 3849.3 | 3718.3 | 3694.1 | 3703.7 |
| 15°    | 4344.6 | 4359.1 | 4393.0 | 4397.9 | 4393.0 | 4359.1 | 4344.6 | 4266.8 | 3873.6 | 3703.7 | 3650.4 |
| 17.5°  | 4373.6 | 4378.5 | 4402.8 | 4402.8 | 4402.8 | 4378.5 | 4373.6 | 4339.7 | 4208.6 | 3980.4 | 3679.5 |
| 20°    | 4349.3 | 4359.1 | 4407.7 | 4417.3 | 4407.7 | 4359.1 | 4349.3 | 4305.6 | 4232.9 | 4150.4 | 3922.2 |
| 22.5°  | 4339.7 | 4359.1 | 4397.9 | 4393.0 | 4397.9 | 4359.1 | 4339.7 | 4271.7 | 4208.6 | 4150.4 | 4058.1 |
| 25°    | 4291.1 | 4291.1 | 4296.0 | 4300.9 | 4296.0 | 4291.1 | 4291.1 | 4237.8 | 4111.5 | 4096.9 | 4043.5 |
| 27.5°  | 4189.2 | 4198.9 | 4228.0 | 4223.1 | 4228.0 | 4198.9 | 4189.2 | 4169.8 | 4033.9 | 4019.3 | 3980.4 |
| 30°    | 4096.9 | 4087.2 | 4063.0 | 4043.5 | 4063.0 | 4087.2 | 4096.9 | 4067.8 | 3931.9 | 3893.0 | 3902.8 |
| 32.5°  | 3941.6 | 3917.3 | 3893.0 | 3878.5 | 3893.0 | 3917.3 | 3941.6 | 3931.9 | 3829.9 | 3776.6 | 3786.2 |
| 35°    | 3757.2 | 3762.0 | 3757.2 | 3742.6 | 3757.2 | 3762.0 | 3757.2 | 3766.8 | 3703.7 | 3655.2 | 3650.4 |
| 37.5°  | 3626.1 | 3635.8 | 3631.0 | 3611.5 | 3631.0 | 3635.8 | 3626.1 | 3616.4 | 3529.0 | 3514.5 | 3524.1 |
| 40°    | 3490.2 | 3495.1 | 3490.2 | 3475.6 | 3490.2 | 3495.1 | 3490.2 | 3470.8 | 3349.4 | 3354.2 | 3388.3 |
| 42.5°  | 3359.1 | 3354.2 | 3339.7 | 3329.9 | 3339.7 | 3354.2 | 3359.1 | 3329.9 | 3174.7 | 3160.1 | 3223.2 |
| 45°    | 3208.6 | 3213.5 | 3184.3 | 3169.8 | 3184.3 | 3213.5 | 3208.6 | 3189.2 | 3029.0 | 2990.2 | 3033.9 |
| 47.5°  | 3058.2 | 3058.2 | 3033.9 | 3019.3 | 3033.9 | 3058.2 | 3058.2 | 3033.9 | 2864.0 | 2825.2 | 2849.5 |
| 50°    | 2897.9 | 2893.2 | 2859.1 | 2854.2 | 2859.1 | 2893.2 | 2897.9 | 2883.4 | 2703.8 | 2669.8 | 2669.8 |
| 52.5°  | 2713.5 | 2713.5 | 2718.4 | 2728.0 | 2718.4 | 2713.5 | 2713.5 | 2718.4 | 2558.2 | 2524.2 | 2514.5 |
| 55°    | 2553.3 | 2558.2 | 2592.1 | 2601.9 | 2592.1 | 2558.2 | 2553.3 | 2553.3 | 2407.7 | 2373.7 | 2354.2 |
| 57.5°  | 2388.3 | 2388.3 | 2412.6 | 2412.6 | 2412.6 | 2388.3 | 2388.3 | 2378.5 | 2237.8 | 2208.7 | 2199.0 |
| 60°    | 2199.0 | 2208.7 | 2228.1 | 2223.2 | 2228.1 | 2208.7 | 2199.0 | 2189.2 | 2067.9 | 2048.5 | 2014.5 |
| 62.5°  | 2000.0 | 2009.6 | 2014.5 | 2004.8 | 2014.5 | 2009.6 | 2000.0 | 1970.8 | 1897.9 | 1883.4 | 1839.7 |
| 65°    | 1791.2 | 1800.9 | 1805.8 | 1796.0 | 1805.8 | 1800.9 | 1791.2 | 1776.6 | 1723.3 | 1699.0 | 1660.1 |
| 67.5°  | 1577.6 | 1572.7 | 1567.9 | 1587.3 | 1567.9 | 1572.7 | 1577.6 | 1558.2 | 1524.3 | 1504.8 | 1451.4 |
| 70°    | 1359.1 | 1359.1 | 1354.4 | 1364.0 | 1354.4 | 1359.1 | 1359.1 | 1344.6 | 1325.2 | 1310.7 | 1262.1 |
| 72.5°  | 1126.2 | 1121.3 | 1140.7 | 1126.2 | 1140.7 | 1121.3 | 1126.2 | 1121.3 | 1111.6 | 1097.0 | 1048.5 |
| 75°    | 898.1  | 907.7  | 898.1  | 912.6  | 898.1  | 907.7  | 898.1  | 902.8  | 898.1  | 888.3  | 854.4  |
| 77.5°  | 684.4  | 694.2  | 684.4  | 684.4  | 684.4  | 694.2  | 684.4  | 689.3  | 689.3  | 689.3  | 660.2  |
| 80°    | 485.5  | 480.6  | 480.6  | 475.7  | 480.6  | 480.6  | 485.5  | 485.5  | 490.2  | 480.6  | 470.8  |
| 82.5°  | 310.7  | 305.8  | 305.8  | 315.5  | 305.8  | 305.8  | 310.7  | 315.5  | 305.8  | 305.8  | 305.8  |
| 85°    | 169.9  | 174.8  | 165.0  | 165.0  | 165.0  | 174.8  | 169.9  | 160.2  | 169.9  | 169.9  | 165.0  |
| 87.5°  | 63.1   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   | 63.1   | 68.0   | 68.0   | 68.0   | 72.8   |
| 90°    | 68.0   | 68.0   | 68.0   | 68.0   | 68.0   | 68.0   | 68.0   | 90.6   | 120.9  | 136.0  | 116.8  |
| 92.5°  | 339.9  | 326.4  | 272.3  | 218.3  | 272.3  | 326.4  | 339.9  | 481.8  | 671.1  | 765.7  | 672.3  |
| 95°    | 1154.0 | 1113.1 | 949.2  | 785.4  | 949.2  | 1113.1 | 1154.0 | 1515.5 | 1997.3 | 2238.3 | 1890.4 |
| 97.5°  | 2664.0 | 2586.1 | 2274.4 | 1962.7 | 2274.4 | 2586.1 | 2664.0 | 2892.5 | 3197.0 | 3349.3 | 2769.2 |
| 100°   | 3741.1 | 3648.3 | 3277.0 | 2905.6 | 3277.0 | 3648.3 | 3741.1 | 3724.4 | 3702.1 | 3691.0 | 3047.3 |
| 102.5° | 4660.8 | 4581.2 | 4263.2 | 3945.1 | 4263.2 | 4581.2 | 4660.8 | 4369.7 | 3981.7 | 3787.7 | 3134.8 |
| 105°   | 5734.2 | 5691.5 | 5520.6 | 5349.6 | 5520.6 | 5691.5 | 5734.2 | 5081.8 | 4211.8 | 3776.9 | 3144.7 |
| 107.5° | 6292.4 | 6302.7 | 6344.1 | 6385.5 | 6344.1 | 6302.7 | 6292.4 | 5382.3 | 4168.9 | 3562.2 | 3004.7 |
| 110°   | 6435.6 | 6480.1 | 6658.3 | 6836.4 | 6658.3 | 6480.1 | 6435.6 | 5418.2 | 4061.6 | 3383.3 | 2880.7 |



TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 6344.3 | 6412.7 | 6686.3 | 6959.8 | 6686.3 | 6412.7 | 6344.3 | 5303.0 | 3914.7 | 3220.5 | 2772.4 |
| 115°   | 6034.8 | 6129.7 | 6508.9 | 6888.2 | 6508.9 | 6129.7 | 6034.8 | 5031.7 | 3694.3 | 3025.5 | 2648.2 |
| 117.5° | 5607.2 | 5712.4 | 6133.0 | 6553.7 | 6133.0 | 5712.4 | 5607.2 | 4701.9 | 3494.8 | 2891.2 | 2570.3 |
| 120°   | 5319.1 | 5421.3 | 5830.0 | 6238.8 | 5830.0 | 5421.3 | 5319.1 | 4491.9 | 3389.0 | 2837.6 | 2544.1 |
| 122.5° | 5031.1 | 5131.9 | 5535.1 | 5938.2 | 5535.1 | 5131.9 | 5031.1 | 4286.2 | 3293.0 | 2796.5 | 2530.5 |
| 125°   | 4650.0 | 4742.8 | 5114.2 | 5485.6 | 5114.2 | 4742.8 | 4650.0 | 4017.3 | 3173.6 | 2751.7 | 2519.2 |
| 127.5° | 4344.1 | 4422.4 | 4735.7 | 5049.0 | 4735.7 | 4422.4 | 4344.1 | 3800.8 | 3076.4 | 2714.2 | 2512.6 |
| 130°   | 4150.8 | 4223.2 | 4512.7 | 4802.1 | 4512.7 | 4223.2 | 4150.8 | 3667.2 | 3022.2 | 2699.8 | 2516.5 |
| 132.5° | 3986.3 | 4051.1 | 4310.2 | 4569.5 | 4310.2 | 4051.1 | 3986.3 | 3553.3 | 2976.0 | 2687.3 | 2519.1 |
| 135°   | 3753.6 | 3809.5 | 4032.9 | 4256.4 | 4032.9 | 3809.5 | 3753.6 | 3391.0 | 2907.6 | 2665.9 | 2516.8 |
| 137.5° | 3581.9 | 3627.6 | 3810.5 | 3993.3 | 3810.5 | 3627.6 | 3581.9 | 3275.3 | 2866.6 | 2662.2 | 2532.2 |
| 140°   | 3444.1 | 3486.9 | 3657.8 | 3828.8 | 3657.8 | 3486.9 | 3444.1 | 3179.3 | 2826.2 | 2649.7 | 2534.8 |
| 142.5° | 3347.5 | 3384.3 | 3531.4 | 3678.5 | 3531.4 | 3384.3 | 3347.5 | 3114.9 | 2804.8 | 2649.7 | 2544.0 |
| 145°   | 3202.6 | 3230.4 | 3341.8 | 3453.1 | 3341.8 | 3230.4 | 3202.6 | 3012.3 | 2758.6 | 2631.8 | 2544.0 |
| 147.5° | 3080.9 | 3104.0 | 3196.3 | 3288.4 | 3196.3 | 3104.0 | 3080.9 | 2931.2 | 2731.7 | 2631.8 | 2561.4 |
| 150°   | 3011.1 | 3029.8 | 3104.6 | 3179.3 | 3104.6 | 3029.8 | 3011.1 | 2884.7 | 2716.2 | 2631.8 | 2570.6 |
| 152.5° | 2955.7 | 2969.8 | 3026.3 | 3082.7 | 3026.3 | 2969.8 | 2955.7 | 2847.7 | 2703.8 | 2631.8 | 2576.6 |
| 155°   | 2889.5 | 2898.9 | 2936.2 | 2973.6 | 2936.2 | 2898.9 | 2889.5 | 2803.7 | 2689.1 | 2631.8 | 2589.7 |
| 157.5° | 2832.2 | 2838.8 | 2865.0 | 2891.2 | 2865.0 | 2838.8 | 2832.2 | 2765.4 | 2676.4 | 2631.8 | 2602.8 |
| 160°   | 2803.6 | 2807.4 | 2822.5 | 2837.6 | 2822.5 | 2807.4 | 2803.6 | 2746.3 | 2670.0 | 2631.8 | 2608.8 |
| 162.5° | 2776.8 | 2780.3 | 2794.7 | 2809.0 | 2794.7 | 2780.3 | 2776.8 | 2728.5 | 2664.0 | 2631.8 | 2615.1 |
| 165°   | 2735.6 | 2739.4 | 2754.5 | 2769.6 | 2754.5 | 2739.4 | 2735.6 | 2701.0 | 2654.9 | 2631.8 | 2624.3 |
| 167.5° | 2717.7 | 2719.3 | 2725.6 | 2732.0 | 2725.6 | 2719.3 | 2717.7 | 2695.0 | 2664.8 | 2649.7 | 2643.4 |
| 170°   | 2717.7 | 2717.7 | 2717.7 | 2717.7 | 2717.7 | 2717.7 | 2717.7 | 2695.0 | 2664.8 | 2649.7 | 2649.3 |
| 172.5° | 2703.4 | 2702.0 | 2696.5 | 2690.9 | 2696.5 | 2702.0 | 2703.4 | 2685.6 | 2661.7 | 2649.7 | 2649.7 |
| 175°   | 2683.7 | 2683.7 | 2683.7 | 2683.7 | 2683.7 | 2683.7 | 2683.7 | 2672.4 | 2657.3 | 2649.7 | 2653.3 |
| 177.5° | 2680.1 | 2678.5 | 2672.2 | 2665.9 | 2672.2 | 2678.5 | 2680.1 | 2671.2 | 2659.3 | 2653.3 | 2656.1 |
| 180°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |



TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 |
| 2.5°   | 5067.8 | 5092.1 | 5106.6 | 5126.1 | 5174.6 |
| 5°     | 4873.6 | 4965.9 | 4995.0 | 5067.8 | 5155.1 |
| 7.5°   | 4446.5 | 4728.0 | 4805.6 | 4980.4 | 5116.3 |
| 10°    | 4033.9 | 4315.4 | 4451.3 | 4864.0 | 5067.8 |
| 12.5°  | 3825.2 | 3990.2 | 4082.4 | 4660.0 | 4999.8 |
| 15°    | 3694.1 | 3810.5 | 3878.5 | 4388.2 | 4922.2 |
| 17.5°  | 3592.1 | 3674.6 | 3723.2 | 4121.2 | 4815.4 |
| 20°    | 3529.0 | 3567.8 | 3611.5 | 3927.1 | 4694.0 |
| 22.5°  | 3485.3 | 3461.0 | 3495.1 | 3791.1 | 4529.0 |
| 25°    | 3456.2 | 3364.0 | 3402.8 | 3684.3 | 4334.8 |
| 27.5°  | 3480.4 | 3276.6 | 3291.1 | 3587.3 | 4130.9 |
| 30°    | 3485.3 | 3169.8 | 3174.7 | 3485.3 | 3902.8 |
| 32.5°  | 3451.4 | 3058.2 | 3063.0 | 3359.1 | 3645.5 |
| 35°    | 3368.9 | 2927.1 | 2922.2 | 3213.5 | 3296.0 |
| 37.5°  | 3257.2 | 2786.3 | 2786.3 | 3053.3 | 2912.6 |
| 40°    | 3121.3 | 2645.5 | 2660.1 | 2844.6 | 2572.7 |
| 42.5°  | 2956.2 | 2495.1 | 2514.5 | 2567.9 | 2320.3 |
| 45°    | 2776.6 | 2349.5 | 2364.0 | 2169.8 | 2126.1 |
| 47.5°  | 2577.6 | 2199.0 | 2203.8 | 1800.9 | 2063.1 |
| 50°    | 2339.7 | 2043.6 | 2024.2 | 1543.7 | 2058.2 |
| 52.5°  | 2131.0 | 1873.8 | 1815.4 | 1398.0 | 1868.9 |
| 55°    | 1927.1 | 1694.1 | 1567.9 | 1286.4 | 1732.9 |
| 57.5°  | 1747.5 | 1461.2 | 1339.7 | 1155.3 | 1703.8 |
| 60°    | 1582.5 | 1233.0 | 1140.7 | 1014.5 | 1563.1 |
| 62.5°  | 1446.5 | 1063.1 | 1043.7 | 917.5  | 1417.5 |
| 65°    | 1300.9 | 946.5  | 941.8  | 834.9  | 1203.8 |
| 67.5°  | 1160.1 | 868.9  | 864.0  | 757.2  | 917.5  |
| 70°    | 1009.6 | 786.4  | 776.7  | 674.7  | 679.6  |
| 72.5°  | 854.4  | 694.2  | 684.4  | 606.8  | 563.1  |
| 75°    | 699.0  | 587.4  | 582.5  | 529.1  | 456.3  |
| 77.5°  | 548.6  | 466.0  | 475.7  | 427.1  | 335.0  |
| 80°    | 393.2  | 339.8  | 349.5  | 305.8  | 252.4  |
| 82.5°  | 262.1  | 223.3  | 233.0  | 194.2  | 169.9  |
| 85°    | 145.6  | 126.2  | 131.1  | 101.9  | 77.6   |
| 87.5°  | 68.0   | 58.2   | 58.2   | 38.8   | 24.3   |
| 90°    | 78.7   | 50.1   | 46.6   | 32.2   | 17.9   |
| 92.5°  | 485.5  | 345.3  | 314.9  | 193.2  | 71.5   |
| 95°    | 1194.6 | 672.7  | 617.0  | 394.3  | 171.7  |
| 97.5°  | 1609.1 | 738.9  | 689.8  | 493.4  | 297.0  |
| 100°   | 1760.0 | 794.4  | 749.8  | 571.7  | 393.6  |
| 102.5° | 1829.1 | 849.9  | 808.3  | 642.1  | 475.9  |
| 105°   | 1880.4 | 932.2  | 897.0  | 756.3  | 615.5  |
| 107.5° | 1889.9 | 1053.8 | 1021.0 | 889.8  | 758.6  |
| 110°   | 1875.7 | 1121.8 | 1092.2 | 973.7  | 855.2  |



TEST NUMBER: P936130

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 1876.2 | 1204.1 | 1175.9 | 1063.0 | 950.1  |
| 115°   | 1893.5 | 1327.6 | 1301.6 | 1197.3 | 1093.2 |
| 117.5° | 1928.6 | 1447.4 | 1423.8 | 1329.1 | 1234.5 |
| 120°   | 1957.3 | 1517.2 | 1494.9 | 1405.9 | 1316.8 |
| 122.5° | 1998.5 | 1599.5 | 1577.0 | 1487.2 | 1397.3 |
| 125°   | 2054.0 | 1705.1 | 1684.6 | 1602.7 | 1520.8 |
| 127.5° | 2109.4 | 1807.0 | 1786.4 | 1703.6 | 1620.9 |
| 130°   | 2149.9 | 1875.0 | 1852.7 | 1763.7 | 1674.7 |
| 132.5° | 2182.7 | 1930.5 | 1908.2 | 1819.2 | 1730.1 |
| 135°   | 2218.6 | 1994.9 | 1974.6 | 1893.5 | 1812.4 |
| 137.5° | 2272.2 | 2077.2 | 2057.2 | 1976.8 | 1896.5 |
| 140°   | 2305.0 | 2132.7 | 2114.2 | 2040.2 | 1966.3 |
| 142.5° | 2332.4 | 2173.8 | 2156.7 | 2088.3 | 2020.0 |
| 145°   | 2368.2 | 2236.4 | 2221.5 | 2162.0 | 2102.3 |
| 147.5° | 2420.7 | 2315.1 | 2300.6 | 2242.6 | 2184.5 |
| 150°   | 2448.1 | 2356.3 | 2343.2 | 2290.8 | 2238.3 |
| 152.5° | 2466.0 | 2383.1 | 2373.2 | 2333.5 | 2293.7 |
| 155°   | 2505.4 | 2442.2 | 2434.8 | 2405.5 | 2376.0 |
| 157.5° | 2544.7 | 2501.2 | 2494.0 | 2465.4 | 2436.9 |
| 160°   | 2562.7 | 2528.1 | 2522.5 | 2500.3 | 2478.0 |
| 162.5° | 2581.7 | 2556.7 | 2552.5 | 2535.8 | 2519.1 |
| 165°   | 2609.2 | 2597.9 | 2594.1 | 2578.9 | 2563.8 |
| 167.5° | 2630.7 | 2621.1 | 2619.3 | 2612.2 | 2605.1 |
| 170°   | 2648.6 | 2648.0 | 2646.2 | 2639.0 | 2631.8 |
| 172.5° | 2649.7 | 2649.7 | 2649.3 | 2647.7 | 2646.2 |
| 175°   | 2660.5 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |
| 177.5° | 2661.7 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |
| 180°   | 2665.9 | 2665.9 | 2665.9 | 2665.9 | 2665.9 |



TEST NUMBER: P936130  
 CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-6500K

**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 | 13.79            | 14.59 | 14.80 | 15.61 | 16.97 | 16.64          | 17.44 | 17.65 | 18.46 | 19.82 |
|                 | 3H   | 14.26            | 14.98 | 15.28 | 16.01 | 17.39 | 17.99          | 18.71 | 19.01 | 19.74 | 21.12 |
|                 | 4H   | 14.45            | 15.13 | 15.48 | 16.16 | 17.55 | 18.43          | 19.11 | 19.47 | 20.15 | 21.54 |
|                 | 6H   | 14.56            | 15.19 | 15.61 | 16.23 | 17.63 | 18.72          | 19.35 | 19.76 | 20.38 | 21.79 |
|                 | 8H   | 14.56            | 15.16 | 15.61 | 16.21 | 17.61 | 18.79          | 19.39 | 19.84 | 20.45 | 21.84 |
|                 | 12H  | 14.53            | 15.10 | 15.59 | 16.15 | 17.57 | 18.83          | 19.40 | 19.89 | 20.45 | 21.87 |
| 4H              | 2H   | 14.82            | 15.50 | 15.86 | 16.53 | 17.92 | 17.04          | 17.72 | 18.08 | 18.75 | 20.14 |
|                 | 3H   | 15.84            | 16.41 | 16.89 | 17.47 | 18.87 | 18.55          | 19.12 | 19.59 | 20.18 | 21.58 |
|                 | 4H   | 16.11            | 16.63 | 17.17 | 17.69 | 19.11 | 19.08          | 19.60 | 20.13 | 20.65 | 22.07 |
|                 | 6H   | 16.23            | 16.68 | 17.30 | 17.76 | 19.18 | 19.44          | 19.89 | 20.51 | 20.97 | 22.39 |
|                 | 8H   | 16.24            | 16.66 | 17.30 | 17.72 | 19.16 | 19.55          | 19.97 | 20.62 | 21.04 | 22.47 |
|                 | 12H  | 16.20            | 16.58 | 17.29 | 17.66 | 19.10 | 19.61          | 19.99 | 20.69 | 21.07 | 22.51 |
| 8H              | 4H   | 16.57            | 16.98 | 17.63 | 18.05 | 19.49 | 19.20          | 19.61 | 20.26 | 20.68 | 22.12 |
|                 | 6H   | 16.82            | 17.17 | 17.91 | 18.28 | 19.71 | 19.64          | 19.98 | 20.72 | 21.09 | 22.52 |
|                 | 8H   | 16.87            | 17.17 | 17.96 | 18.26 | 19.71 | 19.79          | 20.09 | 20.89 | 21.19 | 22.64 |
|                 | 12H  | 16.85            | 17.11 | 17.95 | 18.20 | 19.69 | 19.89          | 20.16 | 20.99 | 21.24 | 22.74 |
| 12H             | 4H   | 16.57            | 16.95 | 17.65 | 18.03 | 19.47 | 19.16          | 19.54 | 20.24 | 20.62 | 22.06 |
|                 | 6H   | 16.89            | 17.19 | 17.98 | 18.28 | 19.73 | 19.63          | 19.94 | 20.73 | 21.03 | 22.48 |
|                 | 8H   | 16.95            | 17.22 | 18.05 | 18.30 | 19.80 | 19.79          | 20.06 | 20.89 | 21.15 | 22.64 |