

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: P935839

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P935839  
REPORT IS A COMBINATION OF REPORTS P933771 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

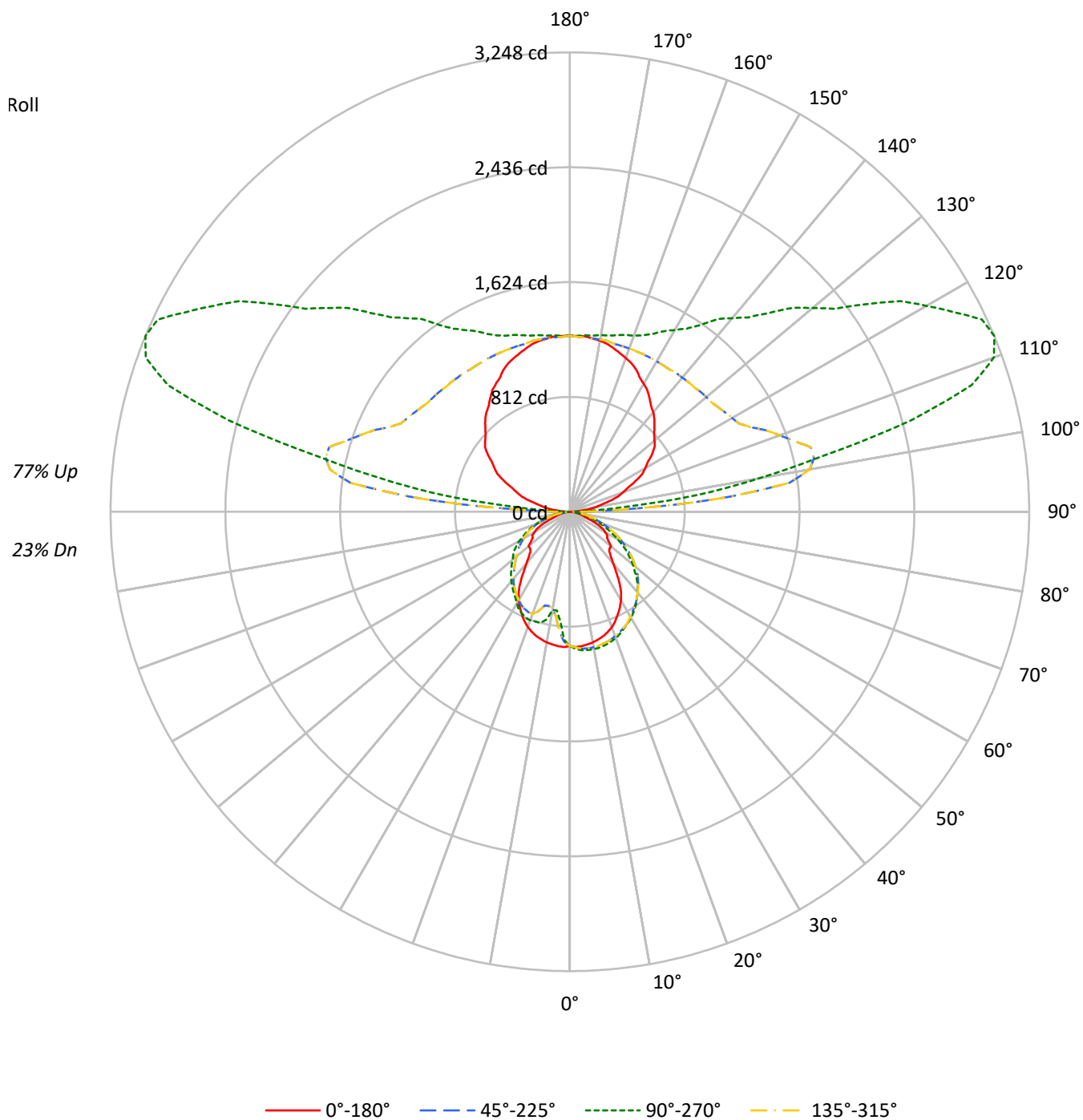
Lumens per Lamp: N/A  
Luminaire Lumens: 10532.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 83.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P935839

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 49 | 49 | 49 | 32 | 32 | 32 | 32 | 32 | 23 |
| 1   | 92  | 88  | 84  | 81  | 81 | 78 | 75 | 72 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 | 27 | 27 | 20 |
| 2   | 84  | 77  | 71  | 66  | 74 | 68 | 63 | 59 | 52 | 49 | 46 | 38 | 36 | 34 | 25 | 24 | 23 | 23 | 23 | 17 |
| 3   | 76  | 67  | 60  | 55  | 67 | 60 | 54 | 49 | 46 | 42 | 39 | 34 | 31 | 29 | 22 | 20 | 19 | 19 | 19 | 14 |
| 4   | 70  | 59  | 52  | 46  | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 19 | 18 | 16 | 16 | 16 | 12 |
| 5   | 64  | 53  | 45  | 39  | 56 | 47 | 40 | 36 | 36 | 32 | 28 | 27 | 24 | 21 | 17 | 16 | 14 | 14 | 14 | 10 |
| 6   | 59  | 47  | 39  | 34  | 52 | 42 | 35 | 31 | 33 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 12 | 12 | 9  |
| 7   | 54  | 42  | 35  | 29  | 48 | 38 | 31 | 27 | 30 | 25 | 21 | 22 | 19 | 16 | 14 | 12 | 11 | 11 | 11 | 8  |
| 8   | 50  | 38  | 31  | 26  | 44 | 34 | 28 | 23 | 27 | 22 | 19 | 20 | 17 | 14 | 13 | 11 | 10 | 10 | 10 | 7  |
| 9   | 46  | 35  | 28  | 23  | 41 | 31 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9  | 9  | 9  | 6  |
| 10  | 43  | 32  | 25  | 20  | 38 | 28 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 11 | 11 | 9  | 8  | 8  | 8  | 6  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 5871 | 5871 | 5871 | 5871 |
| 5°  | 5913 | 5927 | 5913 | 4660 |
| 10° | 5871 | 5839 | 5871 | 4174 |
| 15° | 5806 | 5712 | 5806 | 4769 |
| 20° | 5682 | 5562 | 5682 | 4779 |
| 25° | 5431 | 5344 | 5431 | 4678 |
| 30° | 5108 | 5162 | 5108 | 4456 |
| 35° | 4551 | 4933 | 4551 | 4211 |
| 40° | 3790 | 4662 | 3790 | 4027 |
| 45° | 3384 | 4346 | 3384 | 3815 |
| 50° | 3592 | 3969 | 3592 | 3601 |
| 55° | 3376 | 3563 | 3376 | 3478 |
| 60° | 3476 | 3026 | 3476 | 3185 |
| 65° | 3147 | 2501 | 3147 | 2795 |
| 70° | 2174 | 1993 | 2174 | 2343 |
| 75° | 1899 | 1473 | 1899 | 1764 |
| 80° | 1520 | 974  | 1520 | 1061 |
| 85° | 859  | 516  | 859  | 438  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5191 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 85.7    | 0.8       |
| 10°-20°   | 243.3   | 2.3       |
| 20°-30°   | 376.0   | 3.6       |
| 30°-40°   | 448.9   | 4.3       |
| 40°-50°   | 451.5   | 4.3       |
| 50°-60°   | 392.9   | 3.7       |
| 60°-70°   | 278.6   | 2.6       |
| 70°-80°   | 147.4   | 1.4       |
| 80°-90°   | 41.5    | 0.4       |
| 90°-100°  | 606.5   | 5.8       |
| 100°-110° | 1594.6  | 15.1      |
| 110°-120° | 1653.4  | 15.7      |
| 120°-130° | 1326.3  | 12.6      |
| 130°-140° | 1040.6  | 9.9       |
| 140°-150° | 798.7   | 7.6       |
| 150°-160° | 575.2   | 5.5       |
| 160°-170° | 352.0   | 3.3       |
| 170°-180° | 118.9   | 1.1       |
| 0°-30°    | 705.0   | 6.7       |
| 0°-40°    | 1153.9  | 11.0      |
| 0°-60°    | 1998.3  | 19.0      |
| 0°-90°    | 2465.7  | 23.4      |
| 90°-120°  | 3854.6  | 36.6      |
| 90°-150°  | 7020.2  | 66.7      |
| 90°-180°  | 8066.0  | 76.6      |
| 0°-180°   | 10532.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 949  | 949  | 949  | 949  | 949  |      |
| 5°   | 954  | 983  | 954  | 773  | 954  | 90   |
| 15°  | 911  | 974  | 911  | 814  | 911  | 256  |
| 25°  | 802  | 909  | 802  | 796  | 802  | 368  |
| 35°  | 610  | 811  | 610  | 692  | 610  | 377  |
| 45°  | 393  | 668  | 393  | 586  | 393  | 315  |
| 55°  | 320  | 493  | 320  | 481  | 320  | 295  |
| 65°  | 223  | 297  | 223  | 332  | 223  | 213  |
| 75°  | 84   | 141  | 84   | 169  | 84   | 89   |
| 85°  | 14   | 36   | 14   | 30   | 14   | 19   |
| 90°  | 8    | 32   | 8    | 32   | 8    | 7    |
| 95°  | 80   | 367  | 80   | 367  | 80   | 89   |
| 105° | 287  | 2497 | 287  | 2497 | 287  | 305  |
| 115° | 510  | 3215 | 510  | 3215 | 510  | 504  |
| 125° | 710  | 2560 | 710  | 2560 | 710  | 630  |
| 135° | 846  | 1987 | 846  | 1987 | 846  | 655  |
| 145° | 981  | 1612 | 981  | 1612 | 981  | 615  |
| 155° | 1109 | 1388 | 1109 | 1388 | 1109 | 510  |
| 165° | 1197 | 1293 | 1197 | 1293 | 1197 | 338  |
| 175° | 1244 | 1253 | 1244 | 1253 | 1244 | 118  |
| 180° | 1244 | 1244 | 1244 | 1244 | 1244 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  |
| 2.5°   | 957.2 | 957.2 | 962.6 | 964.4 | 964.4 | 961.7  | 959.0  | 961.7  | 969.8  | 972.5  | 971.6  |
| 5°     | 953.6 | 960.8 | 970.7 | 972.5 | 974.3 | 973.4  | 971.6  | 973.4  | 982.3  | 984.2  | 985.1  |
| 7.5°   | 946.4 | 959.9 | 972.5 | 975.2 | 977.9 | 975.2  | 974.3  | 976.1  | 985.1  | 986.9  | 986.9  |
| 10°    | 937.4 | 956.4 | 970.7 | 972.5 | 975.2 | 972.5  | 972.5  | 976.1  | 985.1  | 986.9  | 987.8  |
| 12.5°  | 924.9 | 950.9 | 964.4 | 966.2 | 969.8 | 968.9  | 968.0  | 971.6  | 980.5  | 982.3  | 982.3  |
| 15°    | 910.6 | 941.1 | 953.6 | 955.5 | 961.7 | 959.9  | 959.9  | 963.5  | 973.4  | 976.1  | 975.2  |
| 17.5°  | 890.7 | 928.5 | 942.9 | 945.6 | 950.0 | 949.1  | 950.0  | 953.6  | 962.6  | 964.4  | 965.3  |
| 20°    | 868.3 | 911.5 | 928.5 | 931.2 | 935.6 | 935.6  | 935.6  | 940.2  | 949.1  | 952.7  | 952.7  |
| 22.5°  | 837.8 | 893.4 | 911.5 | 913.2 | 918.6 | 918.6  | 920.4  | 926.7  | 934.8  | 935.6  | 935.6  |
| 25°    | 801.8 | 873.7 | 889.0 | 894.4 | 899.8 | 902.4  | 905.1  | 908.8  | 911.5  | 910.6  | 911.5  |
| 27.5°  | 764.2 | 848.5 | 868.3 | 871.9 | 879.1 | 881.8  | 885.4  | 886.3  | 887.2  | 889.9  | 888.1  |
| 30°    | 722.0 | 813.5 | 843.2 | 846.7 | 858.4 | 860.2  | 856.6  | 858.4  | 862.9  | 864.8  | 866.6  |
| 32.5°  | 674.4 | 761.5 | 817.1 | 825.2 | 836.0 | 830.6  | 829.7  | 832.4  | 839.6  | 839.6  | 841.4  |
| 35°    | 609.7 | 721.1 | 792.9 | 800.1 | 808.2 | 801.8  | 805.5  | 806.4  | 810.9  | 813.5  | 812.6  |
| 37.5°  | 538.8 | 686.1 | 767.7 | 773.1 | 779.4 | 771.3  | 776.8  | 779.4  | 783.0  | 781.2  | 781.2  |
| 40°    | 475.9 | 631.3 | 738.1 | 741.7 | 747.1 | 740.8  | 746.2  | 748.0  | 749.8  | 748.0  | 747.1  |
| 42.5°  | 429.3 | 571.1 | 706.7 | 711.2 | 707.6 | 712.0  | 713.9  | 717.5  | 714.8  | 711.2  | 711.2  |
| 45°    | 393.3 | 554.9 | 672.6 | 677.9 | 672.6 | 679.7  | 682.4  | 682.4  | 674.4  | 672.6  | 671.7  |
| 47.5°  | 381.6 | 522.6 | 638.5 | 638.5 | 635.7 | 644.7  | 649.2  | 643.0  | 634.8  | 632.2  | 632.2  |
| 50°    | 380.7 | 486.7 | 591.7 | 588.1 | 600.7 | 611.5  | 607.0  | 600.7  | 594.5  | 584.6  | 584.6  |
| 52.5°  | 345.7 | 442.7 | 531.6 | 545.0 | 564.8 | 571.1  | 564.0  | 557.6  | 546.8  | 542.4  | 538.8  |
| 55°    | 320.5 | 396.9 | 476.8 | 503.8 | 524.4 | 532.4  | 519.1  | 512.7  | 496.6  | 493.9  | 492.1  |
| 57.5°  | 315.2 | 330.4 | 426.5 | 460.7 | 485.8 | 484.9  | 476.8  | 465.1  | 451.7  | 449.0  | 448.1  |
| 60°    | 289.1 | 238.9 | 372.7 | 413.1 | 439.1 | 436.4  | 429.3  | 418.5  | 405.9  | 404.1  | 402.3  |
| 62.5°  | 262.2 | 173.3 | 311.6 | 357.4 | 394.2 | 393.3  | 387.0  | 370.9  | 361.9  | 357.4  | 353.8  |
| 65°    | 222.7 | 145.5 | 221.8 | 297.2 | 350.2 | 352.0  | 338.6  | 326.9  | 317.0  | 311.6  | 310.7  |
| 67.5°  | 169.7 | 118.5 | 150.0 | 247.9 | 308.0 | 306.2  | 289.1  | 283.8  | 271.2  | 268.5  | 263.1  |
| 70°    | 125.7 | 79.0  | 104.2 | 201.1 | 266.7 | 262.2  | 248.8  | 242.4  | 230.7  | 224.5  | 220.9  |
| 72.5°  | 104.2 | 63.7  | 76.3  | 156.2 | 224.5 | 219.1  | 207.4  | 200.2  | 190.4  | 185.0  | 181.4  |
| 75°    | 84.4  | 67.3  | 58.4  | 115.9 | 182.3 | 178.7  | 167.9  | 160.8  | 152.6  | 145.5  | 146.4  |
| 77.5°  | 61.9  | 62.8  | 46.7  | 85.3  | 144.6 | 139.2  | 132.9  | 123.9  | 120.3  | 113.2  | 113.2  |
| 80°    | 46.7  | 49.4  | 35.0  | 58.4  | 104.2 | 104.2  | 98.8   | 92.5   | 86.2   | 82.7   | 82.7   |
| 82.5°  | 31.4  | 31.4  | 26.1  | 36.8  | 71.0  | 68.3   | 64.6   | 62.8   | 59.3   | 57.5   | 57.5   |
| 85°    | 14.4  | 17.9  | 16.2  | 22.4  | 38.7  | 40.4   | 40.4   | 38.7   | 37.8   | 35.9   | 36.8   |
| 87.5°  | 4.5   | 8.1   | 9.9   | 12.6  | 19.7  | 20.6   | 21.5   | 21.5   | 21.5   | 22.4   | 22.4   |
| 90°    | 8.4   | 15.1  | 21.7  | 23.4  | 36.8  | 54.5   | 63.5   | 56.4   | 42.3   | 31.8   | 31.8   |
| 92.5°  | 33.4  | 90.2  | 147.0 | 161.2 | 226.6 | 313.8  | 357.4  | 313.2  | 224.9  | 158.7  | 152.4  |
| 95°    | 80.2  | 184.1 | 288.0 | 314.0 | 557.6 | 882.4  | 1044.7 | 932.3  | 707.3  | 538.6  | 519.5  |
| 97.5°  | 138.6 | 230.3 | 322.0 | 344.9 | 751.1 | 1292.6 | 1563.3 | 1492.3 | 1350.1 | 1243.5 | 1207.1 |
| 100°   | 183.7 | 266.9 | 350.0 | 370.8 | 821.5 | 1422.4 | 1722.8 | 1728.0 | 1738.5 | 1746.2 | 1702.9 |
| 102.5° | 222.2 | 299.7 | 377.3 | 396.7 | 853.8 | 1463.2 | 1767.9 | 1858.4 | 2039.5 | 2175.4 | 2138.3 |
| 105°   | 287.2 | 352.9 | 418.6 | 435.1 | 877.7 | 1467.8 | 1762.9 | 1965.9 | 2372.0 | 2676.5 | 2656.5 |
| 107.5° | 354.1 | 415.3 | 476.6 | 491.8 | 882.1 | 1402.5 | 1662.7 | 1945.9 | 2512.3 | 2937.1 | 2941.9 |
| 110°   | 399.2 | 454.5 | 509.8 | 523.6 | 875.5 | 1344.6 | 1579.1 | 1895.7 | 2529.0 | 3003.8 | 3024.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 443.5  | 496.1  | 548.8  | 562.0  | 875.7  | 1294.0 | 1503.2 | 1827.2 | 2475.2 | 2961.3 | 2993.2 |
| 115°   | 510.2  | 558.9  | 607.5  | 619.7  | 883.8  | 1236.0 | 1412.1 | 1724.3 | 2348.6 | 2816.8 | 2861.0 |
| 117.5° | 576.2  | 620.4  | 664.6  | 675.6  | 900.3  | 1199.8 | 1349.6 | 1631.3 | 2194.6 | 2617.2 | 2666.3 |
| 120°   | 614.7  | 656.3  | 697.9  | 708.2  | 913.6  | 1187.5 | 1324.5 | 1581.9 | 2096.7 | 2482.7 | 2530.4 |
| 122.5° | 652.2  | 694.2  | 736.1  | 746.6  | 932.8  | 1181.1 | 1305.3 | 1537.1 | 2000.6 | 2348.3 | 2395.3 |
| 125°   | 709.8  | 748.0  | 786.3  | 795.9  | 958.7  | 1175.8 | 1284.4 | 1481.3 | 1875.0 | 2170.4 | 2213.7 |
| 127.5° | 756.6  | 795.1  | 833.8  | 843.4  | 984.6  | 1172.7 | 1266.8 | 1435.9 | 1774.0 | 2027.6 | 2064.2 |
| 130°   | 781.7  | 823.3  | 864.9  | 875.2  | 1003.6 | 1174.7 | 1260.2 | 1410.7 | 1711.7 | 1937.4 | 1971.2 |
| 132.5° | 807.6  | 849.1  | 890.7  | 901.1  | 1018.8 | 1175.8 | 1254.3 | 1389.0 | 1658.5 | 1860.6 | 1890.8 |
| 135°   | 845.9  | 883.8  | 921.7  | 931.2  | 1035.5 | 1174.7 | 1244.3 | 1357.1 | 1582.8 | 1752.0 | 1778.1 |
| 137.5° | 885.2  | 922.7  | 960.2  | 969.6  | 1060.6 | 1181.9 | 1242.6 | 1338.0 | 1528.8 | 1671.9 | 1693.2 |
| 140°   | 917.8  | 952.3  | 986.8  | 995.4  | 1075.9 | 1183.2 | 1236.8 | 1319.2 | 1484.0 | 1607.6 | 1627.5 |
| 142.5° | 942.8  | 974.7  | 1006.7 | 1014.6 | 1088.7 | 1187.5 | 1236.8 | 1309.2 | 1453.9 | 1562.4 | 1579.6 |
| 145°   | 981.3  | 1009.1 | 1037.0 | 1043.9 | 1105.4 | 1187.5 | 1228.4 | 1287.6 | 1406.1 | 1494.9 | 1507.8 |
| 147.5° | 1019.6 | 1046.8 | 1073.8 | 1080.6 | 1129.9 | 1195.6 | 1228.4 | 1275.0 | 1368.1 | 1438.0 | 1448.8 |
| 150°   | 1044.7 | 1069.2 | 1093.6 | 1099.8 | 1142.6 | 1199.9 | 1228.4 | 1267.8 | 1346.4 | 1405.4 | 1414.2 |
| 152.5° | 1070.6 | 1089.2 | 1107.7 | 1112.4 | 1151.0 | 1202.6 | 1228.4 | 1262.0 | 1329.2 | 1379.5 | 1386.1 |
| 155°   | 1109.0 | 1122.7 | 1136.5 | 1139.9 | 1169.4 | 1208.8 | 1228.4 | 1255.1 | 1308.6 | 1348.7 | 1353.0 |
| 157.5° | 1137.4 | 1150.8 | 1164.2 | 1167.5 | 1187.8 | 1214.9 | 1228.4 | 1249.2 | 1290.8 | 1322.0 | 1325.0 |
| 160°   | 1156.7 | 1167.0 | 1177.4 | 1180.0 | 1196.1 | 1217.6 | 1228.4 | 1246.3 | 1281.9 | 1308.6 | 1310.4 |
| 162.5° | 1175.8 | 1183.6 | 1191.4 | 1193.3 | 1205.0 | 1220.7 | 1228.4 | 1243.4 | 1273.5 | 1296.1 | 1297.8 |
| 165°   | 1196.7 | 1203.8 | 1210.7 | 1212.5 | 1217.8 | 1224.9 | 1228.4 | 1239.2 | 1260.7 | 1276.9 | 1278.7 |
| 167.5° | 1215.9 | 1219.2 | 1222.6 | 1223.4 | 1227.9 | 1233.9 | 1236.8 | 1243.9 | 1258.0 | 1268.5 | 1269.2 |
| 170°   | 1228.4 | 1231.7 | 1235.1 | 1235.9 | 1236.2 | 1236.6 | 1236.8 | 1243.9 | 1258.0 | 1268.5 | 1268.5 |
| 172.5° | 1235.1 | 1235.8 | 1236.6 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1242.3 | 1253.5 | 1261.8 | 1261.2 |
| 175°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1241.8 | 1238.5 | 1236.8 | 1240.3 | 1247.3 | 1252.6 | 1252.6 |
| 177.5° | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1242.3 | 1239.8 | 1238.4 | 1241.2 | 1246.8 | 1251.0 | 1250.3 |
| 180°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |

TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 0°     | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1 | 949.1  |
| 2.5°   | 973.4  | 970.7  | 973.4  | 971.6  | 972.5  | 969.8  | 961.7  | 959.0  | 961.7  | 964.4 | 964.4  |
| 5°     | 985.1  | 983.2  | 985.1  | 985.1  | 984.2  | 982.3  | 973.4  | 971.6  | 973.4  | 974.3 | 972.5  |
| 7.5°   | 988.7  | 986.0  | 988.7  | 986.9  | 986.9  | 985.1  | 976.1  | 974.3  | 975.2  | 977.9 | 975.2  |
| 10°    | 988.7  | 986.0  | 988.7  | 987.8  | 986.9  | 985.1  | 976.1  | 972.5  | 972.5  | 975.2 | 972.5  |
| 12.5°  | 984.2  | 982.3  | 984.2  | 982.3  | 982.3  | 980.5  | 971.6  | 968.0  | 968.9  | 969.8 | 966.2  |
| 15°    | 977.0  | 974.3  | 977.0  | 975.2  | 976.1  | 973.4  | 963.5  | 959.9  | 959.9  | 961.7 | 955.5  |
| 17.5°  | 966.2  | 962.6  | 966.2  | 965.3  | 964.4  | 962.6  | 953.6  | 950.0  | 949.1  | 950.0 | 945.6  |
| 20°    | 953.6  | 950.9  | 953.6  | 952.7  | 952.7  | 949.1  | 940.2  | 935.6  | 935.6  | 935.6 | 931.2  |
| 22.5°  | 933.9  | 931.2  | 933.9  | 935.6  | 935.6  | 934.8  | 926.7  | 920.4  | 918.6  | 918.6 | 913.2  |
| 25°    | 911.5  | 908.8  | 911.5  | 911.5  | 910.6  | 911.5  | 908.8  | 905.1  | 902.4  | 899.8 | 894.4  |
| 27.5°  | 889.9  | 888.1  | 889.9  | 888.1  | 889.9  | 887.2  | 886.3  | 885.4  | 881.8  | 879.1 | 871.9  |
| 30°    | 868.3  | 866.6  | 868.3  | 866.6  | 864.8  | 862.9  | 858.4  | 856.6  | 860.2  | 858.4 | 846.7  |
| 32.5°  | 841.4  | 839.6  | 841.4  | 841.4  | 839.6  | 839.6  | 832.4  | 829.7  | 830.6  | 836.0 | 825.2  |
| 35°    | 813.5  | 810.9  | 813.5  | 812.6  | 813.5  | 810.9  | 806.4  | 805.5  | 801.8  | 808.2 | 800.1  |
| 37.5°  | 781.2  | 778.5  | 781.2  | 781.2  | 781.2  | 783.0  | 779.4  | 776.8  | 771.3  | 779.4 | 773.1  |
| 40°    | 748.0  | 744.4  | 748.0  | 747.1  | 748.0  | 749.8  | 748.0  | 746.2  | 740.8  | 747.1 | 741.7  |
| 42.5°  | 710.3  | 709.4  | 710.3  | 711.2  | 711.2  | 714.8  | 717.5  | 713.9  | 712.0  | 707.6 | 711.2  |
| 45°    | 669.9  | 668.0  | 669.9  | 671.7  | 672.6  | 674.4  | 682.4  | 682.4  | 679.7  | 672.6 | 677.9  |
| 47.5°  | 626.8  | 622.2  | 626.8  | 632.2  | 632.2  | 634.8  | 643.0  | 649.2  | 644.7  | 635.7 | 638.5  |
| 50°    | 581.0  | 581.9  | 581.0  | 584.6  | 584.6  | 594.5  | 600.7  | 607.0  | 611.5  | 600.7 | 588.1  |
| 52.5°  | 536.1  | 535.2  | 536.1  | 538.8  | 542.4  | 546.8  | 557.6  | 564.0  | 571.1  | 564.8 | 545.0  |
| 55°    | 491.2  | 493.0  | 491.2  | 492.1  | 493.9  | 496.6  | 512.7  | 519.1  | 532.4  | 524.4 | 503.8  |
| 57.5°  | 446.3  | 443.6  | 446.3  | 448.1  | 449.0  | 451.7  | 465.1  | 476.8  | 484.9  | 485.8 | 460.7  |
| 60°    | 394.2  | 390.6  | 394.2  | 402.3  | 404.1  | 405.9  | 418.5  | 429.3  | 436.4  | 439.1 | 413.1  |
| 62.5°  | 348.4  | 342.1  | 348.4  | 353.8  | 357.4  | 361.9  | 370.9  | 387.0  | 393.3  | 394.2 | 357.4  |
| 65°    | 299.9  | 297.2  | 299.9  | 310.7  | 311.6  | 317.0  | 326.9  | 338.6  | 352.0  | 350.2 | 297.2  |
| 67.5°  | 255.9  | 255.9  | 255.9  | 263.1  | 268.5  | 271.2  | 283.8  | 289.1  | 306.2  | 308.0 | 247.9  |
| 70°    | 215.5  | 214.6  | 215.5  | 220.9  | 224.5  | 230.7  | 242.4  | 248.8  | 262.2  | 266.7 | 201.1  |
| 72.5°  | 176.9  | 176.0  | 176.9  | 181.4  | 185.0  | 190.4  | 200.2  | 207.4  | 219.1  | 224.5 | 156.2  |
| 75°    | 142.8  | 140.9  | 142.8  | 146.4  | 145.5  | 152.6  | 160.8  | 167.9  | 178.7  | 182.3 | 115.9  |
| 77.5°  | 109.5  | 109.5  | 109.5  | 113.2  | 113.2  | 120.3  | 123.9  | 132.9  | 139.2  | 144.6 | 85.3   |
| 80°    | 81.7   | 80.8   | 81.7   | 82.7   | 82.7   | 86.2   | 92.5   | 98.8   | 104.2  | 104.2 | 58.4   |
| 82.5°  | 57.5   | 55.7   | 57.5   | 57.5   | 57.5   | 59.3   | 62.8   | 64.6   | 68.3   | 71.0  | 36.8   |
| 85°    | 35.9   | 35.9   | 35.9   | 36.8   | 35.9   | 37.8   | 38.7   | 40.4   | 40.4   | 38.7  | 22.4   |
| 87.5°  | 23.4   | 22.4   | 23.4   | 22.4   | 22.4   | 21.5   | 21.5   | 21.5   | 20.6   | 19.7  | 12.6   |
| 90°    | 31.8   | 31.8   | 31.8   | 31.8   | 31.8   | 42.3   | 56.4   | 63.5   | 54.5   | 36.8  | 23.4   |
| 92.5°  | 127.1  | 101.8  | 127.1  | 152.4  | 158.7  | 224.9  | 313.2  | 357.4  | 313.8  | 226.6 | 161.2  |
| 95°    | 443.0  | 366.6  | 443.0  | 519.5  | 538.6  | 707.3  | 932.3  | 1044.7 | 882.4  | 557.6 | 314.0  |
| 97.5°  | 1061.6 | 916.1  | 1061.6 | 1207.1 | 1243.5 | 1350.1 | 1492.3 | 1563.3 | 1292.6 | 751.1 | 344.9  |
| 100°   | 1529.6 | 1356.2 | 1529.6 | 1702.9 | 1746.2 | 1738.5 | 1728.0 | 1722.8 | 1422.4 | 821.5 | 370.8  |
| 102.5° | 1989.8 | 1841.4 | 1989.8 | 2138.3 | 2175.4 | 2039.5 | 1858.4 | 1767.9 | 1463.2 | 853.8 | 396.7  |
| 105°   | 2576.7 | 2496.9 | 2576.7 | 2656.5 | 2676.5 | 2372.0 | 1965.9 | 1762.9 | 1467.8 | 877.7 | 435.1  |
| 107.5° | 2961.2 | 2980.5 | 2961.2 | 2941.9 | 2937.1 | 2512.3 | 1945.9 | 1662.7 | 1402.5 | 882.1 | 491.8  |
| 110°   | 3107.7 | 3190.9 | 3107.7 | 3024.6 | 3003.8 | 2529.0 | 1895.7 | 1579.1 | 1344.6 | 875.5 | 523.6  |



TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 3120.9 | 3248.5 | 3120.9 | 2993.2 | 2961.3 | 2475.2 | 1827.2 | 1503.2 | 1294.0 | 875.7  | 562.0  |
| 115°   | 3038.0 | 3215.1 | 3038.0 | 2861.0 | 2816.8 | 2348.6 | 1724.3 | 1412.1 | 1236.0 | 883.8  | 619.7  |
| 117.5° | 2862.6 | 3059.0 | 2862.6 | 2666.3 | 2617.2 | 2194.6 | 1631.3 | 1349.6 | 1199.8 | 900.3  | 675.6  |
| 120°   | 2721.2 | 2912.0 | 2721.2 | 2530.4 | 2482.7 | 2096.7 | 1581.9 | 1324.5 | 1187.5 | 913.6  | 708.2  |
| 122.5° | 2583.5 | 2771.7 | 2583.5 | 2395.3 | 2348.3 | 2000.6 | 1537.1 | 1305.3 | 1181.1 | 932.8  | 746.6  |
| 125°   | 2387.0 | 2560.4 | 2387.0 | 2213.7 | 2170.4 | 1875.0 | 1481.3 | 1284.4 | 1175.8 | 958.7  | 795.9  |
| 127.5° | 2210.4 | 2356.7 | 2210.4 | 2064.2 | 2027.6 | 1774.0 | 1435.9 | 1266.8 | 1172.7 | 984.6  | 843.4  |
| 130°   | 2106.3 | 2241.4 | 2106.3 | 1971.2 | 1937.4 | 1711.7 | 1410.7 | 1260.2 | 1174.7 | 1003.6 | 875.2  |
| 132.5° | 2011.8 | 2132.8 | 2011.8 | 1890.8 | 1860.6 | 1658.5 | 1389.0 | 1254.3 | 1175.8 | 1018.8 | 901.1  |
| 135°   | 1882.4 | 1986.7 | 1882.4 | 1778.1 | 1752.0 | 1582.8 | 1357.1 | 1244.3 | 1174.7 | 1035.5 | 931.2  |
| 137.5° | 1778.6 | 1864.0 | 1778.6 | 1693.2 | 1671.9 | 1528.8 | 1338.0 | 1242.6 | 1181.9 | 1060.6 | 969.6  |
| 140°   | 1707.3 | 1787.1 | 1707.3 | 1627.5 | 1607.6 | 1484.0 | 1319.2 | 1236.8 | 1183.2 | 1075.9 | 995.4  |
| 142.5° | 1648.3 | 1717.0 | 1648.3 | 1579.6 | 1562.4 | 1453.9 | 1309.2 | 1236.8 | 1187.5 | 1088.7 | 1014.6 |
| 145°   | 1559.8 | 1611.7 | 1559.8 | 1507.8 | 1494.9 | 1406.1 | 1287.6 | 1228.4 | 1187.5 | 1105.4 | 1043.9 |
| 147.5° | 1491.8 | 1534.9 | 1491.8 | 1448.8 | 1438.0 | 1368.1 | 1275.0 | 1228.4 | 1195.6 | 1129.9 | 1080.6 |
| 150°   | 1449.1 | 1484.0 | 1449.1 | 1414.2 | 1405.4 | 1346.4 | 1267.8 | 1228.4 | 1199.9 | 1142.6 | 1099.8 |
| 152.5° | 1412.5 | 1438.9 | 1412.5 | 1386.1 | 1379.5 | 1329.2 | 1262.0 | 1228.4 | 1202.6 | 1151.0 | 1112.4 |
| 155°   | 1370.4 | 1387.9 | 1370.4 | 1353.0 | 1348.7 | 1308.6 | 1255.1 | 1228.4 | 1208.8 | 1169.4 | 1139.9 |
| 157.5° | 1337.3 | 1349.6 | 1337.3 | 1325.0 | 1322.0 | 1290.8 | 1249.2 | 1228.4 | 1214.9 | 1187.8 | 1167.5 |
| 160°   | 1317.4 | 1324.5 | 1317.4 | 1310.4 | 1308.6 | 1281.9 | 1246.3 | 1228.4 | 1217.6 | 1196.1 | 1180.0 |
| 162.5° | 1304.4 | 1311.1 | 1304.4 | 1297.8 | 1296.1 | 1273.5 | 1243.4 | 1228.4 | 1220.7 | 1205.0 | 1193.3 |
| 165°   | 1285.6 | 1292.7 | 1285.6 | 1278.7 | 1276.9 | 1260.7 | 1239.2 | 1228.4 | 1224.9 | 1217.8 | 1212.5 |
| 167.5° | 1272.3 | 1275.2 | 1272.3 | 1269.2 | 1268.5 | 1258.0 | 1243.9 | 1236.8 | 1233.9 | 1227.9 | 1223.4 |
| 170°   | 1268.5 | 1268.5 | 1268.5 | 1268.5 | 1268.5 | 1258.0 | 1243.9 | 1236.8 | 1236.6 | 1236.2 | 1235.9 |
| 172.5° | 1258.6 | 1256.0 | 1258.6 | 1261.2 | 1261.8 | 1253.5 | 1242.3 | 1236.8 | 1236.8 | 1236.8 | 1236.8 |
| 175°   | 1252.6 | 1252.6 | 1252.6 | 1252.6 | 1252.6 | 1247.3 | 1240.3 | 1236.8 | 1238.5 | 1241.8 | 1244.3 |
| 177.5° | 1247.3 | 1244.3 | 1247.3 | 1250.3 | 1251.0 | 1246.8 | 1241.2 | 1238.4 | 1239.8 | 1242.3 | 1244.3 |
| 180°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |

TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°   | 225°   | 230°   | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|
| 0°     | 949.1 | 949.1 | 949.1 | 949.1 | 949.1 | 949.1  | 949.1 | 949.1  | 949.1  | 949.1  | 949.1  |
| 2.5°   | 962.6 | 957.2 | 957.2 | 948.2 | 944.7 | 942.0  | 937.4 | 924.0  | 920.4  | 916.8  | 922.2  |
| 5°     | 970.7 | 960.8 | 953.6 | 937.4 | 924.0 | 918.6  | 901.5 | 869.2  | 847.6  | 831.5  | 822.5  |
| 7.5°   | 972.5 | 959.9 | 946.4 | 921.3 | 889.0 | 874.6  | 822.5 | 763.3  | 747.1  | 732.8  | 723.7  |
| 10°    | 970.7 | 956.4 | 937.4 | 899.8 | 823.4 | 798.3  | 746.2 | 707.6  | 697.7  | 695.0  | 697.7  |
| 12.5°  | 964.4 | 950.9 | 924.9 | 862.0 | 755.2 | 738.1  | 707.6 | 685.2  | 683.3  | 687.9  | 712.0  |
| 15°    | 953.6 | 941.1 | 910.6 | 811.7 | 717.5 | 704.9  | 683.3 | 675.3  | 685.2  | 716.6  | 789.3  |
| 17.5°  | 942.9 | 928.5 | 890.7 | 762.4 | 688.7 | 679.7  | 664.5 | 680.6  | 736.3  | 778.5  | 802.7  |
| 20°    | 928.5 | 911.5 | 868.3 | 726.4 | 668.0 | 660.0  | 652.8 | 725.5  | 767.7  | 783.0  | 796.5  |
| 22.5°  | 911.5 | 893.4 | 837.8 | 701.3 | 646.5 | 640.3  | 644.7 | 750.7  | 767.7  | 778.5  | 790.2  |
| 25°    | 889.0 | 873.7 | 801.8 | 681.5 | 629.5 | 622.2  | 639.4 | 748.0  | 757.8  | 760.6  | 783.9  |
| 27.5°  | 868.3 | 848.5 | 764.2 | 663.6 | 608.9 | 606.1  | 643.8 | 736.3  | 743.6  | 746.2  | 771.3  |
| 30°    | 843.2 | 813.5 | 722.0 | 644.7 | 587.3 | 586.4  | 644.7 | 722.0  | 720.2  | 727.3  | 752.5  |
| 32.5°  | 817.1 | 761.5 | 674.4 | 621.4 | 566.6 | 565.7  | 638.5 | 700.4  | 698.7  | 708.5  | 727.3  |
| 35°    | 792.9 | 721.1 | 609.7 | 594.5 | 540.6 | 541.5  | 623.1 | 675.3  | 676.2  | 685.2  | 696.8  |
| 37.5°  | 767.7 | 686.1 | 538.8 | 564.8 | 515.4 | 515.4  | 602.5 | 651.9  | 650.1  | 652.8  | 669.0  |
| 40°    | 738.1 | 631.3 | 475.9 | 526.2 | 492.1 | 489.4  | 577.3 | 626.8  | 620.5  | 619.6  | 642.1  |
| 42.5°  | 706.7 | 571.1 | 429.3 | 475.1 | 465.1 | 461.6  | 546.8 | 596.3  | 584.6  | 587.3  | 616.0  |
| 45°    | 672.6 | 554.9 | 393.3 | 401.4 | 437.3 | 434.6  | 513.6 | 561.2  | 553.2  | 560.3  | 589.9  |
| 47.5°  | 638.5 | 522.6 | 381.6 | 333.1 | 407.7 | 406.8  | 476.8 | 527.1  | 522.6  | 529.8  | 561.2  |
| 50°    | 591.7 | 486.7 | 380.7 | 285.5 | 374.5 | 378.0  | 432.8 | 493.9  | 493.9  | 500.1  | 533.4  |
| 52.5°  | 531.6 | 442.7 | 345.7 | 258.6 | 335.8 | 346.6  | 394.2 | 465.1  | 466.9  | 473.3  | 502.8  |
| 55°    | 476.8 | 396.9 | 320.5 | 238.0 | 290.0 | 313.4  | 356.5 | 435.5  | 439.1  | 445.4  | 472.3  |
| 57.5°  | 426.5 | 330.4 | 315.2 | 213.7 | 247.9 | 270.3  | 323.3 | 406.8  | 408.6  | 414.0  | 440.0  |
| 60°    | 372.7 | 238.9 | 289.1 | 187.6 | 211.0 | 228.1  | 292.7 | 372.7  | 378.9  | 382.5  | 405.0  |
| 62.5°  | 311.6 | 173.3 | 262.2 | 169.7 | 193.1 | 196.6  | 267.6 | 340.4  | 348.4  | 351.1  | 364.5  |
| 65°    | 221.8 | 145.5 | 222.7 | 154.4 | 174.2 | 175.1  | 240.7 | 307.1  | 314.3  | 318.8  | 328.7  |
| 67.5°  | 150.0 | 118.5 | 169.7 | 140.1 | 159.9 | 160.8  | 214.6 | 268.5  | 278.4  | 282.0  | 288.2  |
| 70°    | 104.2 | 79.0  | 125.7 | 124.8 | 143.7 | 145.5  | 186.7 | 233.5  | 242.4  | 245.1  | 248.8  |
| 72.5°  | 76.3  | 63.7  | 104.2 | 112.2 | 126.6 | 128.4  | 158.1 | 194.0  | 203.0  | 205.7  | 207.4  |
| 75°    | 58.4  | 67.3  | 84.4  | 97.9  | 107.7 | 108.6  | 129.3 | 158.1  | 164.3  | 166.1  | 167.0  |
| 77.5°  | 46.7  | 62.8  | 61.9  | 79.0  | 88.0  | 86.2   | 101.5 | 122.1  | 127.5  | 127.5  | 127.5  |
| 80°    | 35.0  | 49.4  | 46.7  | 56.6  | 64.6  | 62.8   | 72.7  | 87.1   | 88.9   | 90.7   | 89.8   |
| 82.5°  | 26.1  | 31.4  | 31.4  | 35.9  | 43.1  | 41.3   | 48.5  | 56.6   | 56.6   | 56.6   | 58.4   |
| 85°    | 16.2  | 17.9  | 14.4  | 18.8  | 24.3  | 23.4   | 27.0  | 30.5   | 31.4   | 31.4   | 29.6   |
| 87.5°  | 9.9   | 8.1   | 4.5   | 7.1   | 10.8  | 10.8   | 12.6  | 13.5   | 12.6   | 12.6   | 12.6   |
| 90°    | 21.7  | 15.1  | 8.4   | 15.1  | 21.7  | 23.4   | 36.8  | 54.5   | 63.5   | 56.4   | 42.3   |
| 92.5°  | 147.0 | 90.2  | 33.4  | 90.2  | 147.0 | 161.2  | 226.6 | 313.8  | 357.4  | 313.2  | 224.9  |
| 95°    | 288.0 | 184.1 | 80.2  | 184.1 | 288.0 | 314.0  | 557.6 | 882.4  | 1044.7 | 932.3  | 707.3  |
| 97.5°  | 322.0 | 230.3 | 138.6 | 230.3 | 322.0 | 344.9  | 751.1 | 1292.6 | 1563.3 | 1492.3 | 1350.1 |
| 100°   | 350.0 | 266.9 | 183.7 | 266.9 | 350.0 | 370.8  | 821.5 | 1422.4 | 1722.8 | 1728.0 | 1738.5 |
| 102.5° | 377.3 | 299.7 | 222.2 | 299.7 | 377.3 | 396.7  | 853.8 | 1463.2 | 1767.9 | 1858.4 | 2039.5 |
| 105°   | 418.6 | 352.9 | 287.2 | 352.9 | 418.6 | 435.1  | 877.7 | 1467.8 | 1762.9 | 1965.9 | 2372.0 |
| 107.5° | 476.6 | 415.3 | 354.1 | 415.3 | 476.6 | 491.8  | 882.1 | 1402.5 | 1662.7 | 1945.9 | 2512.3 |
| 110°   | 509.8 | 454.5 | 399.2 | 454.5 | 509.8 | 523.6  | 875.5 | 1344.6 | 1579.1 | 1895.7 | 2529.0 |

TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 548.8  | 496.1  | 443.5  | 496.1  | 548.8  | 562.0  | 875.7  | 1294.0 | 1503.2 | 1827.2 | 2475.2 |
| 115°   | 607.5  | 558.9  | 510.2  | 558.9  | 607.5  | 619.7  | 883.8  | 1236.0 | 1412.1 | 1724.3 | 2348.6 |
| 117.5° | 664.6  | 620.4  | 576.2  | 620.4  | 664.6  | 675.6  | 900.3  | 1199.8 | 1349.6 | 1631.3 | 2194.6 |
| 120°   | 697.9  | 656.3  | 614.7  | 656.3  | 697.9  | 708.2  | 913.6  | 1187.5 | 1324.5 | 1581.9 | 2096.7 |
| 122.5° | 736.1  | 694.2  | 652.2  | 694.2  | 736.1  | 746.6  | 932.8  | 1181.1 | 1305.3 | 1537.1 | 2000.6 |
| 125°   | 786.3  | 748.0  | 709.8  | 748.0  | 786.3  | 795.9  | 958.7  | 1175.8 | 1284.4 | 1481.3 | 1875.0 |
| 127.5° | 833.8  | 795.1  | 756.6  | 795.1  | 833.8  | 843.4  | 984.6  | 1172.7 | 1266.8 | 1435.9 | 1774.0 |
| 130°   | 864.9  | 823.3  | 781.7  | 823.3  | 864.9  | 875.2  | 1003.6 | 1174.7 | 1260.2 | 1410.7 | 1711.7 |
| 132.5° | 890.7  | 849.1  | 807.6  | 849.1  | 890.7  | 901.1  | 1018.8 | 1175.8 | 1254.3 | 1389.0 | 1658.5 |
| 135°   | 921.7  | 883.8  | 845.9  | 883.8  | 921.7  | 931.2  | 1035.5 | 1174.7 | 1244.3 | 1357.1 | 1582.8 |
| 137.5° | 960.2  | 922.7  | 885.2  | 922.7  | 960.2  | 969.6  | 1060.6 | 1181.9 | 1242.6 | 1338.0 | 1528.8 |
| 140°   | 986.8  | 952.3  | 917.8  | 952.3  | 986.8  | 995.4  | 1075.9 | 1183.2 | 1236.8 | 1319.2 | 1484.0 |
| 142.5° | 1006.7 | 974.7  | 942.8  | 974.7  | 1006.7 | 1014.6 | 1088.7 | 1187.5 | 1236.8 | 1309.2 | 1453.9 |
| 145°   | 1037.0 | 1009.1 | 981.3  | 1009.1 | 1037.0 | 1043.9 | 1105.4 | 1187.5 | 1228.4 | 1287.6 | 1406.1 |
| 147.5° | 1073.8 | 1046.8 | 1019.6 | 1046.8 | 1073.8 | 1080.6 | 1129.9 | 1195.6 | 1228.4 | 1275.0 | 1368.1 |
| 150°   | 1093.6 | 1069.2 | 1044.7 | 1069.2 | 1093.6 | 1099.8 | 1142.6 | 1199.9 | 1228.4 | 1267.8 | 1346.4 |
| 152.5° | 1107.7 | 1089.2 | 1070.6 | 1089.2 | 1107.7 | 1112.4 | 1151.0 | 1202.6 | 1228.4 | 1262.0 | 1329.2 |
| 155°   | 1136.5 | 1122.7 | 1109.0 | 1122.7 | 1136.5 | 1139.9 | 1169.4 | 1208.8 | 1228.4 | 1255.1 | 1308.6 |
| 157.5° | 1164.2 | 1150.8 | 1137.4 | 1150.8 | 1164.2 | 1167.5 | 1187.8 | 1214.9 | 1228.4 | 1249.2 | 1290.8 |
| 160°   | 1177.4 | 1167.0 | 1156.7 | 1167.0 | 1177.4 | 1180.0 | 1196.1 | 1217.6 | 1228.4 | 1246.3 | 1281.9 |
| 162.5° | 1191.4 | 1183.6 | 1175.8 | 1183.6 | 1191.4 | 1193.3 | 1205.0 | 1220.7 | 1228.4 | 1243.4 | 1273.5 |
| 165°   | 1210.7 | 1203.8 | 1196.7 | 1203.8 | 1210.7 | 1212.5 | 1217.8 | 1224.9 | 1228.4 | 1239.2 | 1260.7 |
| 167.5° | 1222.6 | 1219.2 | 1215.9 | 1219.2 | 1222.6 | 1223.4 | 1227.9 | 1233.9 | 1236.8 | 1243.9 | 1258.0 |
| 170°   | 1235.1 | 1231.7 | 1228.4 | 1231.7 | 1235.1 | 1235.9 | 1236.2 | 1236.6 | 1236.8 | 1243.9 | 1258.0 |
| 172.5° | 1236.6 | 1235.8 | 1235.1 | 1235.8 | 1236.6 | 1236.8 | 1236.8 | 1236.8 | 1236.8 | 1242.3 | 1253.5 |
| 175°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1241.8 | 1238.5 | 1236.8 | 1240.3 | 1247.3 |
| 177.5° | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1242.3 | 1239.8 | 1238.4 | 1241.2 | 1246.8 |
| 180°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  | 949.1  |
| 2.5°   | 915.9  | 913.2  | 916.8  | 906.9  | 916.8  | 913.2  | 915.9  | 922.2  | 916.8  | 920.4  | 924.0  |
| 5°     | 803.7  | 799.2  | 784.8  | 773.1  | 784.8  | 799.2  | 803.7  | 822.5  | 831.5  | 847.6  | 869.2  |
| 7.5°   | 718.4  | 714.8  | 711.2  | 704.0  | 711.2  | 714.8  | 718.4  | 723.7  | 732.8  | 747.1  | 763.3  |
| 10°    | 699.5  | 700.4  | 705.8  | 704.9  | 705.8  | 700.4  | 699.5  | 697.7  | 695.0  | 697.7  | 707.6  |
| 12.5°  | 748.0  | 756.0  | 785.7  | 783.9  | 785.7  | 756.0  | 748.0  | 712.0  | 687.9  | 683.3  | 685.2  |
| 15°    | 803.7  | 806.4  | 812.6  | 813.5  | 812.6  | 806.4  | 803.7  | 789.3  | 716.6  | 685.2  | 675.3  |
| 17.5°  | 809.1  | 810.0  | 814.4  | 814.4  | 814.4  | 810.0  | 809.1  | 802.7  | 778.5  | 736.3  | 680.6  |
| 20°    | 804.6  | 806.4  | 815.3  | 817.1  | 815.3  | 806.4  | 804.6  | 796.5  | 783.0  | 767.7  | 725.5  |
| 22.5°  | 802.7  | 806.4  | 813.5  | 812.6  | 813.5  | 806.4  | 802.7  | 790.2  | 778.5  | 767.7  | 750.7  |
| 25°    | 793.8  | 793.8  | 794.7  | 795.6  | 794.7  | 793.8  | 793.8  | 783.9  | 760.6  | 757.8  | 748.0  |
| 27.5°  | 775.0  | 776.8  | 782.1  | 781.2  | 782.1  | 776.8  | 775.0  | 771.3  | 746.2  | 743.6  | 736.3  |
| 30°    | 757.8  | 756.0  | 751.6  | 748.0  | 751.6  | 756.0  | 757.8  | 752.5  | 727.3  | 720.2  | 722.0  |
| 32.5°  | 729.2  | 724.6  | 720.2  | 717.5  | 720.2  | 724.6  | 729.2  | 727.3  | 708.5  | 698.7  | 700.4  |
| 35°    | 695.0  | 695.9  | 695.0  | 692.3  | 695.0  | 695.9  | 695.0  | 696.8  | 685.2  | 676.2  | 675.3  |
| 37.5°  | 670.8  | 672.6  | 671.7  | 668.0  | 671.7  | 672.6  | 670.8  | 669.0  | 652.8  | 650.1  | 651.9  |
| 40°    | 645.6  | 646.5  | 645.6  | 643.0  | 645.6  | 646.5  | 645.6  | 642.1  | 619.6  | 620.5  | 626.8  |
| 42.5°  | 621.4  | 620.5  | 617.8  | 616.0  | 617.8  | 620.5  | 621.4  | 616.0  | 587.3  | 584.6  | 596.3  |
| 45°    | 593.6  | 594.5  | 589.0  | 586.4  | 589.0  | 594.5  | 593.6  | 589.9  | 560.3  | 553.2  | 561.2  |
| 47.5°  | 565.7  | 565.7  | 561.2  | 558.5  | 561.2  | 565.7  | 565.7  | 561.2  | 529.8  | 522.6  | 527.1  |
| 50°    | 536.1  | 535.2  | 528.9  | 528.0  | 528.9  | 535.2  | 536.1  | 533.4  | 500.1  | 493.9  | 493.9  |
| 52.5°  | 501.9  | 501.9  | 502.8  | 504.7  | 502.8  | 501.9  | 501.9  | 502.8  | 473.3  | 466.9  | 465.1  |
| 55°    | 472.3  | 473.3  | 479.5  | 481.3  | 479.5  | 473.3  | 472.3  | 472.3  | 445.4  | 439.1  | 435.5  |
| 57.5°  | 441.8  | 441.8  | 446.3  | 446.3  | 446.3  | 441.8  | 441.8  | 440.0  | 414.0  | 408.6  | 406.8  |
| 60°    | 406.8  | 408.6  | 412.1  | 411.2  | 412.1  | 408.6  | 406.8  | 405.0  | 382.5  | 378.9  | 372.7  |
| 62.5°  | 370.0  | 371.8  | 372.7  | 370.9  | 372.7  | 371.8  | 370.0  | 364.5  | 351.1  | 348.4  | 340.4  |
| 65°    | 331.3  | 333.1  | 334.0  | 332.2  | 334.0  | 333.1  | 331.3  | 328.7  | 318.8  | 314.3  | 307.1  |
| 67.5°  | 291.8  | 290.9  | 290.0  | 293.7  | 290.0  | 290.9  | 291.8  | 288.2  | 282.0  | 278.4  | 268.5  |
| 70°    | 251.5  | 251.5  | 250.6  | 252.3  | 250.6  | 251.5  | 251.5  | 248.8  | 245.1  | 242.4  | 233.5  |
| 72.5°  | 208.3  | 207.4  | 211.0  | 208.3  | 211.0  | 207.4  | 208.3  | 207.4  | 205.7  | 203.0  | 194.0  |
| 75°    | 166.1  | 167.9  | 166.1  | 168.8  | 166.1  | 167.9  | 166.1  | 167.0  | 166.1  | 164.3  | 158.1  |
| 77.5°  | 126.6  | 128.4  | 126.6  | 126.6  | 126.6  | 128.4  | 126.6  | 127.5  | 127.5  | 127.5  | 122.1  |
| 80°    | 89.8   | 88.9   | 88.9   | 88.0   | 88.9   | 88.9   | 89.8   | 89.8   | 90.7   | 88.9   | 87.1   |
| 82.5°  | 57.5   | 56.6   | 56.6   | 58.4   | 56.6   | 56.6   | 57.5   | 58.4   | 56.6   | 56.6   | 56.6   |
| 85°    | 31.4   | 32.3   | 30.5   | 30.5   | 30.5   | 32.3   | 31.4   | 29.6   | 31.4   | 31.4   | 30.5   |
| 87.5°  | 11.7   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 11.7   | 12.6   | 12.6   | 12.6   | 13.5   |
| 90°    | 31.8   | 31.8   | 31.8   | 31.8   | 31.8   | 31.8   | 31.8   | 42.3   | 56.4   | 63.5   | 54.5   |
| 92.5°  | 158.7  | 152.4  | 127.1  | 101.8  | 127.1  | 152.4  | 158.7  | 224.9  | 313.2  | 357.4  | 313.8  |
| 95°    | 538.6  | 519.5  | 443.0  | 366.6  | 443.0  | 519.5  | 538.6  | 707.3  | 932.3  | 1044.7 | 882.4  |
| 97.5°  | 1243.5 | 1207.1 | 1061.6 | 916.1  | 1061.6 | 1207.1 | 1243.5 | 1350.1 | 1492.3 | 1563.3 | 1292.6 |
| 100°   | 1746.2 | 1702.9 | 1529.6 | 1356.2 | 1529.6 | 1702.9 | 1746.2 | 1738.5 | 1728.0 | 1722.8 | 1422.4 |
| 102.5° | 2175.4 | 2138.3 | 1989.8 | 1841.4 | 1989.8 | 2138.3 | 2175.4 | 2039.5 | 1858.4 | 1767.9 | 1463.2 |
| 105°   | 2676.5 | 2656.5 | 2576.7 | 2496.9 | 2576.7 | 2656.5 | 2676.5 | 2372.0 | 1965.9 | 1762.9 | 1467.8 |
| 107.5° | 2937.1 | 2941.9 | 2961.2 | 2980.5 | 2961.2 | 2941.9 | 2937.1 | 2512.3 | 1945.9 | 1662.7 | 1402.5 |
| 110°   | 3003.8 | 3024.6 | 3107.7 | 3190.9 | 3107.7 | 3024.6 | 3003.8 | 2529.0 | 1895.7 | 1579.1 | 1344.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 2961.3 | 2993.2 | 3120.9 | 3248.5 | 3120.9 | 2993.2 | 2961.3 | 2475.2 | 1827.2 | 1503.2 | 1294.0 |
| 115°   | 2816.8 | 2861.0 | 3038.0 | 3215.1 | 3038.0 | 2861.0 | 2816.8 | 2348.6 | 1724.3 | 1412.1 | 1236.0 |
| 117.5° | 2617.2 | 2666.3 | 2862.6 | 3059.0 | 2862.6 | 2666.3 | 2617.2 | 2194.6 | 1631.3 | 1349.6 | 1199.8 |
| 120°   | 2482.7 | 2530.4 | 2721.2 | 2912.0 | 2721.2 | 2530.4 | 2482.7 | 2096.7 | 1581.9 | 1324.5 | 1187.5 |
| 122.5° | 2348.3 | 2395.3 | 2583.5 | 2771.7 | 2583.5 | 2395.3 | 2348.3 | 2000.6 | 1537.1 | 1305.3 | 1181.1 |
| 125°   | 2170.4 | 2213.7 | 2387.0 | 2560.4 | 2387.0 | 2213.7 | 2170.4 | 1875.0 | 1481.3 | 1284.4 | 1175.8 |
| 127.5° | 2027.6 | 2064.2 | 2210.4 | 2356.7 | 2210.4 | 2064.2 | 2027.6 | 1774.0 | 1435.9 | 1266.8 | 1172.7 |
| 130°   | 1937.4 | 1971.2 | 2106.3 | 2241.4 | 2106.3 | 1971.2 | 1937.4 | 1711.7 | 1410.7 | 1260.2 | 1174.7 |
| 132.5° | 1860.6 | 1890.8 | 2011.8 | 2132.8 | 2011.8 | 1890.8 | 1860.6 | 1658.5 | 1389.0 | 1254.3 | 1175.8 |
| 135°   | 1752.0 | 1778.1 | 1882.4 | 1986.7 | 1882.4 | 1778.1 | 1752.0 | 1582.8 | 1357.1 | 1244.3 | 1174.7 |
| 137.5° | 1671.9 | 1693.2 | 1778.6 | 1864.0 | 1778.6 | 1693.2 | 1671.9 | 1528.8 | 1338.0 | 1242.6 | 1181.9 |
| 140°   | 1607.6 | 1627.5 | 1707.3 | 1787.1 | 1707.3 | 1627.5 | 1607.6 | 1484.0 | 1319.2 | 1236.8 | 1183.2 |
| 142.5° | 1562.4 | 1579.6 | 1648.3 | 1717.0 | 1648.3 | 1579.6 | 1562.4 | 1453.9 | 1309.2 | 1236.8 | 1187.5 |
| 145°   | 1494.9 | 1507.8 | 1559.8 | 1611.7 | 1559.8 | 1507.8 | 1494.9 | 1406.1 | 1287.6 | 1228.4 | 1187.5 |
| 147.5° | 1438.0 | 1448.8 | 1491.8 | 1534.9 | 1491.8 | 1448.8 | 1438.0 | 1368.1 | 1275.0 | 1228.4 | 1195.6 |
| 150°   | 1405.4 | 1414.2 | 1449.1 | 1484.0 | 1449.1 | 1414.2 | 1405.4 | 1346.4 | 1267.8 | 1228.4 | 1199.9 |
| 152.5° | 1379.5 | 1386.1 | 1412.5 | 1438.9 | 1412.5 | 1386.1 | 1379.5 | 1329.2 | 1262.0 | 1228.4 | 1202.6 |
| 155°   | 1348.7 | 1353.0 | 1370.4 | 1387.9 | 1370.4 | 1353.0 | 1348.7 | 1308.6 | 1255.1 | 1228.4 | 1208.8 |
| 157.5° | 1322.0 | 1325.0 | 1337.3 | 1349.6 | 1337.3 | 1325.0 | 1322.0 | 1290.8 | 1249.2 | 1228.4 | 1214.9 |
| 160°   | 1308.6 | 1310.4 | 1317.4 | 1324.5 | 1317.4 | 1310.4 | 1308.6 | 1281.9 | 1246.3 | 1228.4 | 1217.6 |
| 162.5° | 1296.1 | 1297.8 | 1304.4 | 1311.1 | 1304.4 | 1297.8 | 1296.1 | 1273.5 | 1243.4 | 1228.4 | 1220.7 |
| 165°   | 1276.9 | 1278.7 | 1285.6 | 1292.7 | 1285.6 | 1278.7 | 1276.9 | 1260.7 | 1239.2 | 1228.4 | 1224.9 |
| 167.5° | 1268.5 | 1269.2 | 1272.3 | 1275.2 | 1272.3 | 1269.2 | 1268.5 | 1258.0 | 1243.9 | 1236.8 | 1233.9 |
| 170°   | 1268.5 | 1268.5 | 1268.5 | 1268.5 | 1268.5 | 1268.5 | 1268.5 | 1258.0 | 1243.9 | 1236.8 | 1236.6 |
| 172.5° | 1261.8 | 1261.2 | 1258.6 | 1256.0 | 1258.6 | 1261.2 | 1261.8 | 1253.5 | 1242.3 | 1236.8 | 1236.8 |
| 175°   | 1252.6 | 1252.6 | 1252.6 | 1252.6 | 1252.6 | 1252.6 | 1252.6 | 1247.3 | 1240.3 | 1236.8 | 1238.5 |
| 177.5° | 1251.0 | 1250.3 | 1247.3 | 1244.3 | 1247.3 | 1250.3 | 1251.0 | 1246.8 | 1241.2 | 1238.4 | 1239.8 |
| 180°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 949.1 | 949.1  | 949.1 | 949.1 | 949.1 |
| 2.5°   | 937.4 | 942.0  | 944.7 | 948.2 | 957.2 |
| 5°     | 901.5 | 918.6  | 924.0 | 937.4 | 953.6 |
| 7.5°   | 822.5 | 874.6  | 889.0 | 921.3 | 946.4 |
| 10°    | 746.2 | 798.3  | 823.4 | 899.8 | 937.4 |
| 12.5°  | 707.6 | 738.1  | 755.2 | 862.0 | 924.9 |
| 15°    | 683.3 | 704.9  | 717.5 | 811.7 | 910.6 |
| 17.5°  | 664.5 | 679.7  | 688.7 | 762.4 | 890.7 |
| 20°    | 652.8 | 660.0  | 668.0 | 726.4 | 868.3 |
| 22.5°  | 644.7 | 640.3  | 646.5 | 701.3 | 837.8 |
| 25°    | 639.4 | 622.2  | 629.5 | 681.5 | 801.8 |
| 27.5°  | 643.8 | 606.1  | 608.9 | 663.6 | 764.2 |
| 30°    | 644.7 | 586.4  | 587.3 | 644.7 | 722.0 |
| 32.5°  | 638.5 | 565.7  | 566.6 | 621.4 | 674.4 |
| 35°    | 623.1 | 541.5  | 540.6 | 594.5 | 609.7 |
| 37.5°  | 602.5 | 515.4  | 515.4 | 564.8 | 538.8 |
| 40°    | 577.3 | 489.4  | 492.1 | 526.2 | 475.9 |
| 42.5°  | 546.8 | 461.6  | 465.1 | 475.1 | 429.3 |
| 45°    | 513.6 | 434.6  | 437.3 | 401.4 | 393.3 |
| 47.5°  | 476.8 | 406.8  | 407.7 | 333.1 | 381.6 |
| 50°    | 432.8 | 378.0  | 374.5 | 285.5 | 380.7 |
| 52.5°  | 394.2 | 346.6  | 335.8 | 258.6 | 345.7 |
| 55°    | 356.5 | 313.4  | 290.0 | 238.0 | 320.5 |
| 57.5°  | 323.3 | 270.3  | 247.9 | 213.7 | 315.2 |
| 60°    | 292.7 | 228.1  | 211.0 | 187.6 | 289.1 |
| 62.5°  | 267.6 | 196.6  | 193.1 | 169.7 | 262.2 |
| 65°    | 240.7 | 175.1  | 174.2 | 154.4 | 222.7 |
| 67.5°  | 214.6 | 160.8  | 159.9 | 140.1 | 169.7 |
| 70°    | 186.7 | 145.5  | 143.7 | 124.8 | 125.7 |
| 72.5°  | 158.1 | 128.4  | 126.6 | 112.2 | 104.2 |
| 75°    | 129.3 | 108.6  | 107.7 | 97.9  | 84.4  |
| 77.5°  | 101.5 | 86.2   | 88.0  | 79.0  | 61.9  |
| 80°    | 72.7  | 62.8   | 64.6  | 56.6  | 46.7  |
| 82.5°  | 48.5  | 41.3   | 43.1  | 35.9  | 31.4  |
| 85°    | 27.0  | 23.4   | 24.3  | 18.8  | 14.4  |
| 87.5°  | 12.6  | 10.8   | 10.8  | 7.1   | 4.5   |
| 90°    | 36.8  | 23.4   | 21.7  | 15.1  | 8.4   |
| 92.5°  | 226.6 | 161.2  | 147.0 | 90.2  | 33.4  |
| 95°    | 557.6 | 314.0  | 288.0 | 184.1 | 80.2  |
| 97.5°  | 751.1 | 344.9  | 322.0 | 230.3 | 138.6 |
| 100°   | 821.5 | 370.8  | 350.0 | 266.9 | 183.7 |
| 102.5° | 853.8 | 396.7  | 377.3 | 299.7 | 222.2 |
| 105°   | 877.7 | 435.1  | 418.6 | 352.9 | 287.2 |
| 107.5° | 882.1 | 491.8  | 476.6 | 415.3 | 354.1 |
| 110°   | 875.5 | 523.6  | 509.8 | 454.5 | 399.2 |

TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 875.7  | 562.0  | 548.8  | 496.1  | 443.5  |
| 115°   | 883.8  | 619.7  | 607.5  | 558.9  | 510.2  |
| 117.5° | 900.3  | 675.6  | 664.6  | 620.4  | 576.2  |
| 120°   | 913.6  | 708.2  | 697.9  | 656.3  | 614.7  |
| 122.5° | 932.8  | 746.6  | 736.1  | 694.2  | 652.2  |
| 125°   | 958.7  | 795.9  | 786.3  | 748.0  | 709.8  |
| 127.5° | 984.6  | 843.4  | 833.8  | 795.1  | 756.6  |
| 130°   | 1003.6 | 875.2  | 864.9  | 823.3  | 781.7  |
| 132.5° | 1018.8 | 901.1  | 890.7  | 849.1  | 807.6  |
| 135°   | 1035.5 | 931.2  | 921.7  | 883.8  | 845.9  |
| 137.5° | 1060.6 | 969.6  | 960.2  | 922.7  | 885.2  |
| 140°   | 1075.9 | 995.4  | 986.8  | 952.3  | 917.8  |
| 142.5° | 1088.7 | 1014.6 | 1006.7 | 974.7  | 942.8  |
| 145°   | 1105.4 | 1043.9 | 1037.0 | 1009.1 | 981.3  |
| 147.5° | 1129.9 | 1080.6 | 1073.8 | 1046.8 | 1019.6 |
| 150°   | 1142.6 | 1099.8 | 1093.6 | 1069.2 | 1044.7 |
| 152.5° | 1151.0 | 1112.4 | 1107.7 | 1089.2 | 1070.6 |
| 155°   | 1169.4 | 1139.9 | 1136.5 | 1122.7 | 1109.0 |
| 157.5° | 1187.8 | 1167.5 | 1164.2 | 1150.8 | 1137.4 |
| 160°   | 1196.1 | 1180.0 | 1177.4 | 1167.0 | 1156.7 |
| 162.5° | 1205.0 | 1193.3 | 1191.4 | 1183.6 | 1175.8 |
| 165°   | 1217.8 | 1212.5 | 1210.7 | 1203.8 | 1196.7 |
| 167.5° | 1227.9 | 1223.4 | 1222.6 | 1219.2 | 1215.9 |
| 170°   | 1236.2 | 1235.9 | 1235.1 | 1231.7 | 1228.4 |
| 172.5° | 1236.8 | 1236.8 | 1236.6 | 1235.8 | 1235.1 |
| 175°   | 1241.8 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |
| 177.5° | 1242.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |
| 180°   | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |

TEST NUMBER: P935839

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-3500K

**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 | 7.74             | 8.41  | 8.90  | 9.55  | 11.16 | 10.57          | 11.23 | 11.72 | 12.37 | 13.98 |
|                 | 3H   | 8.20             | 8.80  | 9.37  | 9.95  | 11.57 | 11.90          | 12.49 | 13.06 | 13.64 | 15.26 |
|                 | 4H   | 8.39             | 8.95  | 9.56  | 10.10 | 11.73 | 12.33          | 12.89 | 13.50 | 14.05 | 15.67 |
|                 | 6H   | 8.49             | 9.01  | 9.67  | 10.17 | 11.80 | 12.60          | 13.12 | 13.78 | 14.27 | 15.91 |
|                 | 8H   | 8.49             | 8.98  | 9.67  | 10.15 | 11.78 | 12.67          | 13.16 | 13.85 | 14.33 | 15.96 |
|                 | 12H  | 8.45             | 8.92  | 9.64  | 10.09 | 11.74 | 12.70          | 13.17 | 13.89 | 14.33 | 15.98 |
| 4H              | 2H   | 8.75             | 9.31  | 9.93  | 10.47 | 12.09 | 10.95          | 11.52 | 12.13 | 12.67 | 14.29 |
|                 | 3H   | 9.76             | 10.23 | 10.94 | 11.41 | 13.04 | 12.44          | 12.91 | 13.62 | 14.08 | 15.72 |
|                 | 4H   | 10.03            | 10.46 | 11.21 | 11.62 | 13.28 | 12.96          | 13.39 | 14.14 | 14.55 | 16.21 |
|                 | 6H   | 10.14            | 10.51 | 11.33 | 11.70 | 13.34 | 13.31          | 13.68 | 14.50 | 14.87 | 16.51 |
|                 | 8H   | 10.14            | 10.49 | 11.33 | 11.66 | 13.33 | 13.41          | 13.76 | 14.60 | 14.93 | 16.60 |
|                 | 12H  | 10.10            | 10.41 | 11.30 | 11.60 | 13.27 | 13.46          | 13.77 | 14.66 | 14.96 | 16.63 |
| 8H              | 4H   | 10.46            | 10.81 | 11.65 | 11.99 | 13.65 | 13.06          | 13.41 | 14.25 | 14.59 | 16.25 |
|                 | 6H   | 10.72            | 11.00 | 11.92 | 12.22 | 13.88 | 13.49          | 13.78 | 14.70 | 15.00 | 16.66 |
|                 | 8H   | 10.76            | 11.00 | 11.97 | 12.20 | 13.88 | 13.64          | 13.89 | 14.85 | 15.09 | 16.77 |
|                 | 12H  | 10.73            | 10.95 | 11.95 | 12.14 | 13.86 | 13.73          | 13.95 | 14.95 | 15.14 | 16.85 |
| 12H             | 4H   | 10.46            | 10.77 | 11.66 | 11.96 | 13.63 | 13.02          | 13.33 | 14.22 | 14.52 | 16.19 |
|                 | 6H   | 10.77            | 11.02 | 11.99 | 12.22 | 13.90 | 13.49          | 13.73 | 14.70 | 14.93 | 16.61 |
|                 | 8H   | 10.83            | 11.05 | 12.05 | 12.25 | 13.96 | 13.64          | 13.86 | 14.85 | 15.05 | 16.76 |

END OF REPORT