

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: P936084

Luminaire Tested: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P936084  
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

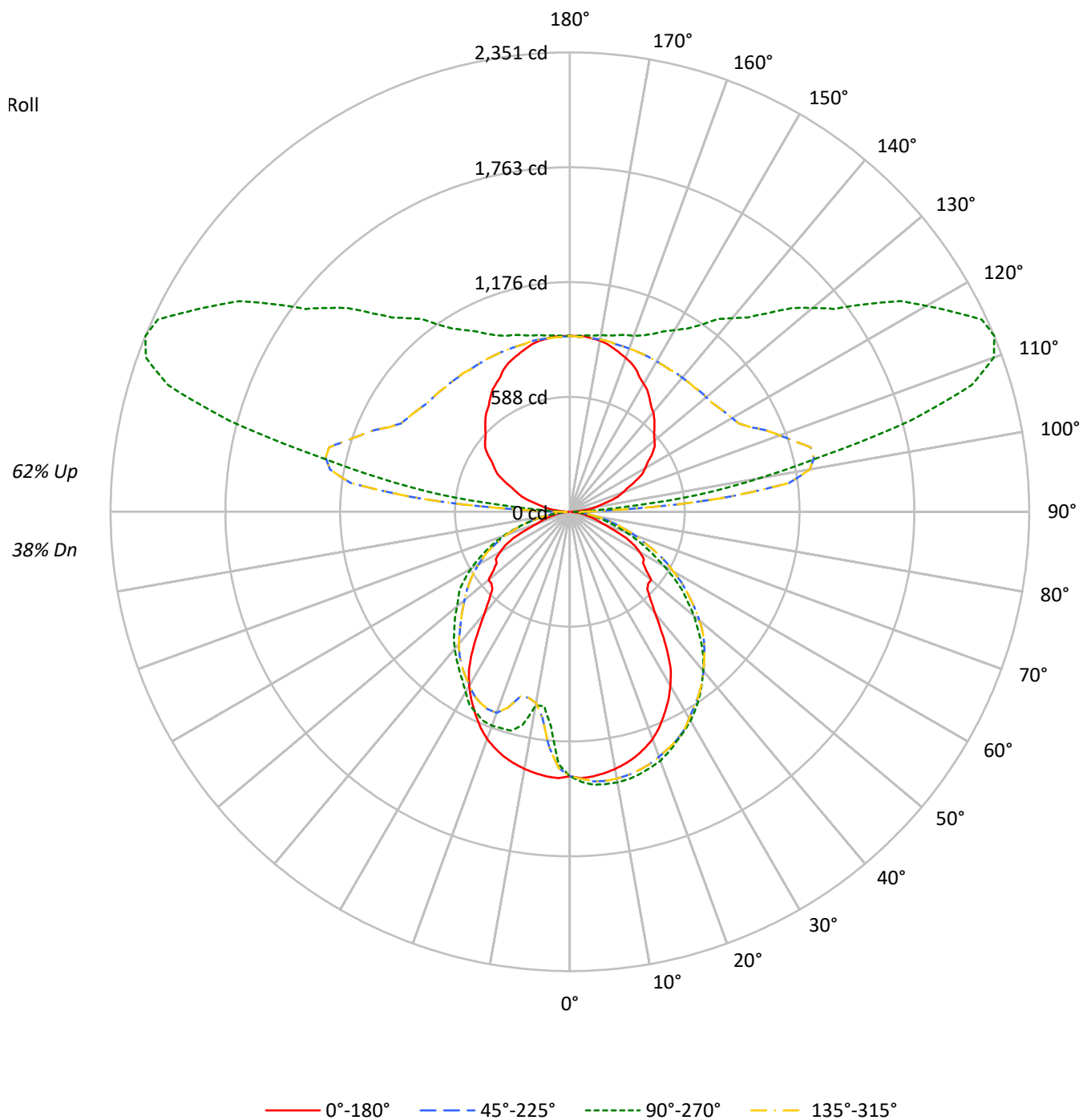
Lumens per Lamp: N/A  
Luminaire Lumens: 9349.9 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 72.4  
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: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**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 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 |
| 1   | 95  | 91  | 87  | 84  | 86 | 83 | 79 | 76 | 67 | 65 | 63 | 53 | 51 | 50 | 40 | 39 | 38 |
| 2   | 87  | 79  | 73  | 68  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 35 | 33 | 32 |
| 3   | 79  | 70  | 62  | 57  | 71 | 63 | 57 | 52 | 52 | 47 | 44 | 41 | 38 | 35 | 31 | 29 | 27 |
| 4   | 72  | 62  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 28 | 25 | 23 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 21 | 18 | 19 | 16 | 14 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 |
| 10  | 45  | 33  | 26  | 21  | 41 | 31 | 24 | 20 | 25 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 11 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 12557 | 12557 | 12557 | 12557 |
| 5°  | 12638 | 12676 | 12638 | 9967  |
| 10° | 12539 | 12486 | 12539 | 8927  |
| 15° | 12388 | 12216 | 12388 | 10200 |
| 20° | 12115 | 11895 | 12115 | 10221 |
| 25° | 11571 | 11428 | 11571 | 10005 |
| 30° | 10873 | 11040 | 10873 | 9530  |
| 35° | 9678  | 10549 | 9678  | 9007  |
| 40° | 8051  | 9971  | 8051  | 8612  |
| 45° | 7180  | 9294  | 7180  | 8159  |
| 50° | 7609  | 8489  | 7609  | 7702  |
| 55° | 7140  | 7619  | 7140  | 7438  |
| 60° | 7332  | 6471  | 7332  | 6812  |
| 65° | 6616  | 5348  | 6616  | 5979  |
| 70° | 4552  | 4263  | 4552  | 5013  |
| 75° | 3945  | 3151  | 3945  | 3773  |
| 80° | 3117  | 2083  | 3117  | 2269  |
| 85° | 1689  | 1103  | 1689  | 937   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11024 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.2  | 1.3       |
| 10°-20°   | 346.8  | 3.7       |
| 20°-30°   | 536.1  | 5.7       |
| 30°-40°   | 640.0  | 6.8       |
| 40°-50°   | 643.8  | 6.9       |
| 50°-60°   | 560.2  | 6.0       |
| 60°-70°   | 397.2  | 4.2       |
| 70°-80°   | 210.1  | 2.2       |
| 80°-90°   | 55.8   | 0.6       |
| 90°-100°  | 439.0  | 4.7       |
| 100°-110° | 1154.1 | 12.3      |
| 110°-120° | 1196.6 | 12.8      |
| 120°-130° | 959.8  | 10.3      |
| 130°-140° | 753.1  | 8.1       |
| 140°-150° | 578.1  | 6.2       |
| 150°-160° | 416.3  | 4.5       |
| 160°-170° | 254.7  | 2.7       |
| 170°-180° | 86.1   | 0.9       |
| 0°-30°    | 1005.1 | 10.8      |
| 0°-40°    | 1645.2 | 17.6      |
| 0°-60°    | 2849.1 | 30.5      |
| 0°-90°    | 3512.2 | 37.6      |
| 90°-120°  | 2789.6 | 29.8      |
| 90°-150°  | 5080.6 | 54.3      |
| 90°-180°  | 5838.0 | 62.4      |
| 0°-180°   | 9349.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1353 | 1353 | 1353 | 1353 | 1353 |      |
| 5°   | 1360 | 1402 | 1360 | 1102 | 1360 | 129  |
| 15°  | 1298 | 1389 | 1298 | 1160 | 1298 | 365  |
| 25°  | 1143 | 1296 | 1143 | 1134 | 1143 | 525  |
| 35°  | 869  | 1156 | 869  | 987  | 869  | 538  |
| 45°  | 561  | 952  | 561  | 836  | 561  | 449  |
| 55°  | 457  | 703  | 457  | 686  | 457  | 420  |
| 65°  | 318  | 424  | 318  | 474  | 318  | 303  |
| 75°  | 120  | 201  | 120  | 241  | 120  | 127  |
| 85°  | 20   | 51   | 20   | 44   | 20   | 28   |
| 90°  | 6    | 23   | 6    | 23   | 6    | 6    |
| 95°  | 58   | 265  | 58   | 265  | 58   | 64   |
| 105° | 208  | 1807 | 208  | 1807 | 208  | 220  |
| 115° | 369  | 2327 | 369  | 2327 | 369  | 365  |
| 125° | 514  | 1853 | 514  | 1853 | 514  | 456  |
| 135° | 612  | 1438 | 612  | 1438 | 612  | 474  |
| 145° | 710  | 1166 | 710  | 1166 | 710  | 445  |
| 155° | 803  | 1004 | 803  | 1004 | 803  | 369  |
| 165° | 866  | 936  | 866  | 936  | 866  | 244  |
| 175° | 900  | 907  | 900  | 907  | 900  | 85   |
| 180° | 900  | 900  | 900  | 900  | 900  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°   | 1364.7 | 1364.7 | 1372.5 | 1375.0 | 1375.0 | 1371.1 | 1367.4 | 1371.1 | 1382.7 | 1386.5 | 1385.3 |
| 5°     | 1359.7 | 1369.9 | 1384.0 | 1386.5 | 1389.1 | 1387.8 | 1385.3 | 1387.8 | 1400.6 | 1403.2 | 1404.5 |
| 7.5°   | 1349.4 | 1368.6 | 1386.5 | 1390.4 | 1394.2 | 1390.4 | 1389.1 | 1391.7 | 1404.5 | 1407.0 | 1407.0 |
| 10°    | 1336.6 | 1363.5 | 1384.0 | 1386.5 | 1390.4 | 1386.5 | 1386.5 | 1391.7 | 1404.5 | 1407.0 | 1408.3 |
| 12.5°  | 1318.7 | 1355.8 | 1375.0 | 1377.6 | 1382.7 | 1381.4 | 1380.1 | 1385.3 | 1398.1 | 1400.6 | 1400.6 |
| 15°    | 1298.2 | 1341.8 | 1359.7 | 1362.2 | 1371.1 | 1368.6 | 1368.6 | 1373.8 | 1387.8 | 1391.7 | 1390.4 |
| 17.5°  | 1270.1 | 1323.8 | 1344.3 | 1348.2 | 1354.6 | 1353.2 | 1354.6 | 1359.7 | 1372.5 | 1375.0 | 1376.3 |
| 20°    | 1238.0 | 1299.5 | 1323.8 | 1327.6 | 1334.0 | 1334.0 | 1334.0 | 1340.4 | 1353.2 | 1358.3 | 1358.3 |
| 22.5°  | 1194.5 | 1273.8 | 1299.5 | 1302.0 | 1309.7 | 1309.7 | 1312.3 | 1321.2 | 1332.8 | 1334.0 | 1334.0 |
| 25°    | 1143.3 | 1245.7 | 1267.5 | 1275.2 | 1282.9 | 1286.6 | 1290.5 | 1295.6 | 1299.5 | 1298.2 | 1299.5 |
| 27.5°  | 1089.5 | 1209.9 | 1238.0 | 1243.1 | 1253.4 | 1257.3 | 1262.3 | 1263.7 | 1264.9 | 1268.7 | 1266.2 |
| 30°    | 1029.4 | 1159.9 | 1202.1 | 1207.3 | 1223.9 | 1226.5 | 1221.4 | 1223.9 | 1230.3 | 1233.0 | 1235.5 |
| 32.5°  | 961.4  | 1085.7 | 1165.0 | 1176.6 | 1192.0 | 1184.2 | 1183.0 | 1186.8 | 1197.1 | 1197.1 | 1199.6 |
| 35°    | 869.3  | 1028.1 | 1130.5 | 1140.7 | 1152.2 | 1143.3 | 1148.4 | 1149.7 | 1156.1 | 1159.9 | 1158.6 |
| 37.5°  | 768.1  | 978.1  | 1094.7 | 1102.3 | 1111.2 | 1099.7 | 1107.5 | 1111.2 | 1116.4 | 1113.9 | 1113.9 |
| 40°    | 678.6  | 900.0  | 1052.4 | 1057.5 | 1065.2 | 1056.2 | 1063.9 | 1066.5 | 1069.0 | 1066.5 | 1065.2 |
| 42.5°  | 612.0  | 814.3  | 1007.6 | 1014.0 | 1008.8 | 1015.2 | 1017.8 | 1023.0 | 1019.1 | 1014.0 | 1014.0 |
| 45°    | 560.8  | 791.2  | 958.9  | 966.6  | 958.9  | 969.2  | 973.0  | 973.0  | 961.4  | 958.9  | 957.7  |
| 47.5°  | 544.1  | 745.2  | 910.3  | 910.3  | 906.4  | 919.2  | 925.7  | 916.7  | 905.1  | 901.4  | 901.4  |
| 50°    | 542.8  | 693.9  | 843.7  | 838.6  | 856.5  | 871.9  | 865.5  | 856.5  | 847.6  | 833.4  | 833.4  |
| 52.5°  | 492.9  | 631.2  | 758.0  | 777.1  | 805.3  | 814.3  | 804.0  | 795.1  | 779.7  | 773.3  | 768.1  |
| 55°    | 457.1  | 565.9  | 679.9  | 718.2  | 747.7  | 759.2  | 740.0  | 731.0  | 708.0  | 704.2  | 701.6  |
| 57.5°  | 449.4  | 471.1  | 608.1  | 656.8  | 692.6  | 691.4  | 679.9  | 663.2  | 644.0  | 640.1  | 638.9  |
| 60°    | 412.2  | 340.5  | 531.3  | 589.0  | 626.1  | 622.2  | 612.0  | 596.6  | 578.7  | 576.2  | 573.6  |
| 62.5°  | 373.8  | 247.1  | 444.3  | 509.6  | 562.0  | 560.8  | 551.8  | 528.8  | 516.0  | 509.6  | 504.5  |
| 65°    | 317.5  | 207.4  | 316.2  | 423.7  | 499.3  | 501.8  | 482.7  | 466.0  | 451.9  | 444.3  | 442.9  |
| 67.5°  | 242.0  | 169.0  | 213.8  | 353.4  | 439.2  | 436.5  | 412.2  | 404.6  | 386.6  | 382.8  | 375.1  |
| 70°    | 179.3  | 112.7  | 148.5  | 286.8  | 380.2  | 373.8  | 354.7  | 345.6  | 329.1  | 320.1  | 314.9  |
| 72.5°  | 148.5  | 90.9   | 108.8  | 222.8  | 320.1  | 312.4  | 295.7  | 285.5  | 271.4  | 263.8  | 258.6  |
| 75°    | 120.3  | 96.0   | 83.2   | 165.1  | 259.9  | 254.8  | 239.4  | 229.2  | 217.6  | 207.4  | 208.7  |
| 77.5°  | 88.4   | 89.6   | 66.6   | 121.6  | 206.1  | 198.5  | 189.4  | 176.6  | 171.5  | 161.3  | 161.3  |
| 80°    | 66.6   | 70.4   | 49.9   | 83.2   | 148.5  | 148.5  | 140.8  | 131.9  | 122.9  | 117.8  | 117.8  |
| 82.5°  | 44.8   | 44.8   | 37.1   | 52.5   | 101.2  | 97.3   | 92.2   | 89.6   | 84.5   | 82.0   | 82.0   |
| 85°    | 20.4   | 25.6   | 23.1   | 32.0   | 55.0   | 57.7   | 57.7   | 55.0   | 53.8   | 51.2   | 52.5   |
| 87.5°  | 6.4    | 11.5   | 14.1   | 17.9   | 28.2   | 29.5   | 30.7   | 30.7   | 30.7   | 32.0   | 32.0   |
| 90°    | 6.0    | 10.9   | 15.7   | 17.0   | 26.6   | 39.5   | 45.9   | 40.8   | 30.6   | 23.0   | 23.0   |
| 92.5°  | 24.1   | 65.2   | 106.4  | 116.7  | 164.0  | 227.0  | 258.6  | 226.6  | 162.8  | 114.8  | 110.3  |
| 95°    | 58.0   | 133.2  | 208.4  | 227.2  | 403.5  | 638.6  | 756.1  | 674.7  | 511.9  | 389.8  | 376.0  |
| 97.5°  | 100.3  | 166.7  | 233.0  | 249.6  | 543.5  | 935.5  | 1131.4 | 1080.0 | 977.0  | 899.9  | 873.6  |
| 100°   | 132.9  | 193.1  | 253.3  | 268.3  | 594.5  | 1029.4 | 1246.8 | 1250.6 | 1258.1 | 1263.8 | 1232.4 |
| 102.5° | 160.8  | 217.0  | 273.1  | 287.1  | 617.9  | 1058.9 | 1279.5 | 1345.0 | 1476.1 | 1574.4 | 1547.6 |
| 105°   | 207.9  | 255.5  | 303.0  | 314.9  | 635.2  | 1062.2 | 1275.8 | 1422.7 | 1716.6 | 1937.0 | 1922.6 |
| 107.5° | 256.3  | 300.6  | 345.0  | 356.0  | 638.5  | 1015.0 | 1203.3 | 1408.2 | 1818.1 | 2125.6 | 2129.1 |
| 110°   | 288.9  | 328.9  | 369.0  | 379.0  | 633.6  | 973.1  | 1142.8 | 1372.0 | 1830.2 | 2174.0 | 2189.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 320.9 | 359.1 | 397.3 | 406.8 | 633.8 | 936.5 | 1087.9 | 1322.4 | 1791.4 | 2143.1 | 2166.2 |
| 115°   | 369.3 | 404.5 | 439.6 | 448.5 | 639.6 | 894.6 | 1022.0 | 1247.9 | 1699.7 | 2038.6 | 2070.7 |
| 117.5° | 417.1 | 449.0 | 481.0 | 489.0 | 651.6 | 868.3 | 976.7  | 1180.5 | 1588.3 | 1894.1 | 1929.7 |
| 120°   | 444.8 | 474.9 | 504.9 | 512.5 | 661.1 | 859.4 | 958.5  | 1144.8 | 1517.4 | 1796.8 | 1831.3 |
| 122.5° | 472.0 | 502.3 | 532.8 | 540.3 | 675.1 | 854.9 | 944.7  | 1112.4 | 1447.9 | 1699.5 | 1733.5 |
| 125°   | 513.8 | 541.4 | 569.1 | 576.0 | 693.8 | 851.0 | 929.6  | 1072.0 | 1357.0 | 1570.7 | 1602.1 |
| 127.5° | 547.6 | 575.5 | 603.4 | 610.4 | 712.5 | 848.7 | 916.9  | 1039.3 | 1283.9 | 1467.5 | 1493.9 |
| 130°   | 565.7 | 595.7 | 625.8 | 633.3 | 726.3 | 850.1 | 912.0  | 1020.9 | 1238.8 | 1402.1 | 1426.6 |
| 132.5° | 584.4 | 614.5 | 644.6 | 652.1 | 737.3 | 851.0 | 907.8  | 1005.2 | 1200.3 | 1346.5 | 1368.4 |
| 135°   | 612.2 | 639.6 | 667.0 | 673.8 | 749.4 | 850.1 | 900.5  | 982.2  | 1145.5 | 1267.9 | 1286.8 |
| 137.5° | 640.6 | 667.7 | 694.9 | 701.7 | 767.5 | 855.4 | 899.3  | 968.3  | 1106.4 | 1210.0 | 1225.4 |
| 140°   | 664.2 | 689.2 | 714.2 | 720.5 | 778.7 | 856.3 | 895.1  | 954.7  | 1073.9 | 1163.4 | 1177.8 |
| 142.5° | 682.4 | 705.4 | 728.5 | 734.3 | 787.9 | 859.3 | 895.1  | 947.5  | 1052.2 | 1130.8 | 1143.2 |
| 145°   | 710.2 | 730.3 | 750.4 | 755.4 | 800.0 | 859.4 | 889.1  | 931.9  | 1017.5 | 1081.8 | 1091.2 |
| 147.5° | 737.9 | 757.6 | 777.1 | 782.1 | 817.7 | 865.3 | 889.1  | 922.8  | 990.1  | 1040.7 | 1048.5 |
| 150°   | 756.1 | 773.8 | 791.5 | 795.9 | 826.9 | 868.3 | 889.1  | 917.5  | 974.4  | 1017.2 | 1023.5 |
| 152.5° | 774.8 | 788.3 | 801.7 | 805.0 | 833.0 | 870.4 | 889.1  | 913.4  | 962.0  | 998.5  | 1003.2 |
| 155°   | 802.6 | 812.6 | 822.5 | 825.0 | 846.3 | 874.8 | 889.1  | 908.4  | 947.1  | 976.1  | 979.3  |
| 157.5° | 823.2 | 832.9 | 842.4 | 844.9 | 859.6 | 879.3 | 889.1  | 904.1  | 934.1  | 956.7  | 958.9  |
| 160°   | 837.0 | 844.6 | 852.1 | 854.0 | 865.7 | 881.3 | 889.1  | 901.9  | 927.7  | 947.0  | 948.3  |
| 162.5° | 851.0 | 856.6 | 862.2 | 863.7 | 872.1 | 883.4 | 889.1  | 899.9  | 921.7  | 938.0  | 939.2  |
| 165°   | 866.1 | 871.1 | 876.3 | 877.5 | 881.4 | 886.5 | 889.1  | 896.8  | 912.4  | 924.0  | 925.3  |
| 167.5° | 879.9 | 882.4 | 884.8 | 885.4 | 888.6 | 892.9 | 895.1  | 900.2  | 910.4  | 918.0  | 918.6  |
| 170°   | 889.1 | 891.5 | 893.9 | 894.5 | 894.7 | 895.0 | 895.1  | 900.2  | 910.4  | 918.0  | 918.0  |
| 172.5° | 893.9 | 894.4 | 895.0 | 895.1 | 895.1 | 895.1 | 895.1  | 899.1  | 907.2  | 913.2  | 912.7  |
| 175°   | 900.5 | 900.5 | 900.5 | 900.5 | 898.7 | 896.2 | 895.1  | 897.6  | 902.7  | 906.6  | 906.6  |
| 177.5° | 900.5 | 900.5 | 900.5 | 900.5 | 899.1 | 897.3 | 896.3  | 898.4  | 902.3  | 905.3  | 904.8  |
| 180°   | 900.5 | 900.5 | 900.5 | 900.5 | 900.5 | 900.5 | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  |

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CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°   | 1387.8 | 1384.0 | 1387.8 | 1385.3 | 1386.5 | 1382.7 | 1371.1 | 1367.4 | 1371.1 | 1375.0 | 1375.0 |
| 5°     | 1404.5 | 1401.9 | 1404.5 | 1404.5 | 1403.2 | 1400.6 | 1387.8 | 1385.3 | 1387.8 | 1389.1 | 1386.5 |
| 7.5°   | 1409.6 | 1405.7 | 1409.6 | 1407.0 | 1407.0 | 1404.5 | 1391.7 | 1389.1 | 1390.4 | 1394.2 | 1390.4 |
| 10°    | 1409.6 | 1405.7 | 1409.6 | 1408.3 | 1407.0 | 1404.5 | 1391.7 | 1386.5 | 1386.5 | 1390.4 | 1386.5 |
| 12.5°  | 1403.2 | 1400.6 | 1403.2 | 1400.6 | 1400.6 | 1398.1 | 1385.3 | 1380.1 | 1381.4 | 1382.7 | 1377.6 |
| 15°    | 1392.9 | 1389.1 | 1392.9 | 1390.4 | 1391.7 | 1387.8 | 1373.8 | 1368.6 | 1368.6 | 1371.1 | 1362.2 |
| 17.5°  | 1377.6 | 1372.5 | 1377.6 | 1376.3 | 1375.0 | 1372.5 | 1359.7 | 1354.6 | 1353.2 | 1354.6 | 1348.2 |
| 20°    | 1359.7 | 1355.8 | 1359.7 | 1358.3 | 1358.3 | 1353.2 | 1340.4 | 1334.0 | 1334.0 | 1334.0 | 1327.6 |
| 22.5°  | 1331.5 | 1327.6 | 1331.5 | 1334.0 | 1334.0 | 1332.8 | 1321.2 | 1312.3 | 1309.7 | 1309.7 | 1302.0 |
| 25°    | 1299.5 | 1295.6 | 1299.5 | 1299.5 | 1298.2 | 1299.5 | 1295.6 | 1290.5 | 1286.6 | 1282.9 | 1275.2 |
| 27.5°  | 1268.7 | 1266.2 | 1268.7 | 1266.2 | 1268.7 | 1264.9 | 1263.7 | 1262.3 | 1257.3 | 1253.4 | 1243.1 |
| 30°    | 1238.0 | 1235.5 | 1238.0 | 1235.5 | 1233.0 | 1230.3 | 1223.9 | 1221.4 | 1226.5 | 1223.9 | 1207.3 |
| 32.5°  | 1199.6 | 1197.1 | 1199.6 | 1199.6 | 1197.1 | 1197.1 | 1186.8 | 1183.0 | 1184.2 | 1192.0 | 1176.6 |
| 35°    | 1159.9 | 1156.1 | 1159.9 | 1158.6 | 1159.9 | 1156.1 | 1149.7 | 1148.4 | 1143.3 | 1152.2 | 1140.7 |
| 37.5°  | 1113.9 | 1110.0 | 1113.9 | 1113.9 | 1113.9 | 1116.4 | 1111.2 | 1107.5 | 1099.7 | 1111.2 | 1102.3 |
| 40°    | 1066.5 | 1061.3 | 1066.5 | 1065.2 | 1066.5 | 1069.0 | 1066.5 | 1063.9 | 1056.2 | 1065.2 | 1057.5 |
| 42.5°  | 1012.7 | 1011.4 | 1012.7 | 1014.0 | 1014.0 | 1019.1 | 1023.0 | 1017.8 | 1015.2 | 1008.8 | 1014.0 |
| 45°    | 955.0  | 952.5  | 955.0  | 957.7  | 958.9  | 961.4  | 973.0  | 973.0  | 969.2  | 958.9  | 966.6  |
| 47.5°  | 893.6  | 887.2  | 893.6  | 901.4  | 901.4  | 905.1  | 916.7  | 925.7  | 919.2  | 906.4  | 910.3  |
| 50°    | 828.3  | 829.7  | 828.3  | 833.4  | 833.4  | 847.6  | 856.5  | 865.5  | 871.9  | 856.5  | 838.6  |
| 52.5°  | 764.3  | 763.1  | 764.3  | 768.1  | 773.3  | 779.7  | 795.1  | 804.0  | 814.3  | 805.3  | 777.1  |
| 55°    | 700.3  | 702.9  | 700.3  | 701.6  | 704.2  | 708.0  | 731.0  | 740.0  | 759.2  | 747.7  | 718.2  |
| 57.5°  | 636.3  | 632.5  | 636.3  | 638.9  | 640.1  | 644.0  | 663.2  | 679.9  | 691.4  | 692.6  | 656.8  |
| 60°    | 562.0  | 556.9  | 562.0  | 573.6  | 576.2  | 578.7  | 596.6  | 612.0  | 622.2  | 626.1  | 589.0  |
| 62.5°  | 496.7  | 487.8  | 496.7  | 504.5  | 509.6  | 516.0  | 528.8  | 551.8  | 560.8  | 562.0  | 509.6  |
| 65°    | 427.6  | 423.7  | 427.6  | 442.9  | 444.3  | 451.9  | 466.0  | 482.7  | 501.8  | 499.3  | 423.7  |
| 67.5°  | 364.9  | 364.9  | 364.9  | 375.1  | 382.8  | 386.6  | 404.6  | 412.2  | 436.5  | 439.2  | 353.4  |
| 70°    | 307.3  | 306.0  | 307.3  | 314.9  | 320.1  | 329.1  | 345.6  | 354.7  | 373.8  | 380.2  | 286.8  |
| 72.5°  | 252.2  | 251.0  | 252.2  | 258.6  | 263.8  | 271.4  | 285.5  | 295.7  | 312.4  | 320.1  | 222.8  |
| 75°    | 203.6  | 201.0  | 203.6  | 208.7  | 207.4  | 217.6  | 229.2  | 239.4  | 254.8  | 259.9  | 165.1  |
| 77.5°  | 156.2  | 156.2  | 156.2  | 161.3  | 161.3  | 171.5  | 176.6  | 189.4  | 198.5  | 206.1  | 121.6  |
| 80°    | 116.5  | 115.2  | 116.5  | 117.8  | 117.8  | 122.9  | 131.9  | 140.8  | 148.5  | 148.5  | 83.2   |
| 82.5°  | 82.0   | 79.4   | 82.0   | 82.0   | 82.0   | 84.5   | 89.6   | 92.2   | 97.3   | 101.2  | 52.5   |
| 85°    | 51.2   | 51.2   | 51.2   | 52.5   | 51.2   | 53.8   | 55.0   | 57.7   | 57.7   | 55.0   | 32.0   |
| 87.5°  | 33.3   | 32.0   | 33.3   | 32.0   | 32.0   | 30.7   | 30.7   | 30.7   | 29.5   | 28.2   | 17.9   |
| 90°    | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 30.6   | 40.8   | 45.9   | 39.5   | 26.6   | 17.0   |
| 92.5°  | 92.0   | 73.7   | 92.0   | 110.3  | 114.8  | 162.8  | 226.6  | 258.6  | 227.0  | 164.0  | 116.7  |
| 95°    | 320.6  | 265.3  | 320.6  | 376.0  | 389.8  | 511.9  | 674.7  | 756.1  | 638.6  | 403.5  | 227.2  |
| 97.5°  | 768.3  | 663.0  | 768.3  | 873.6  | 899.9  | 977.0  | 1080.0 | 1131.4 | 935.5  | 543.5  | 249.6  |
| 100°   | 1107.0 | 981.5  | 1107.0 | 1232.4 | 1263.8 | 1258.1 | 1250.6 | 1246.8 | 1029.4 | 594.5  | 268.3  |
| 102.5° | 1440.1 | 1332.7 | 1440.1 | 1547.6 | 1574.4 | 1476.1 | 1345.0 | 1279.5 | 1058.9 | 617.9  | 287.1  |
| 105°   | 1864.8 | 1807.1 | 1864.8 | 1922.6 | 1937.0 | 1716.6 | 1422.7 | 1275.8 | 1062.2 | 635.2  | 314.9  |
| 107.5° | 2143.0 | 2157.0 | 2143.0 | 2129.1 | 2125.6 | 1818.1 | 1408.2 | 1203.3 | 1015.0 | 638.5  | 356.0  |
| 110°   | 2249.1 | 2309.3 | 2249.1 | 2189.0 | 2174.0 | 1830.2 | 1372.0 | 1142.8 | 973.1  | 633.6  | 379.0  |



TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 112.5° | 2258.6 | 2351.0 | 2258.6 | 2166.2 | 2143.1 | 1791.4 | 1322.4 | 1087.9 | 936.5 | 633.8 | 406.8  |
| 115°   | 2198.8 | 2326.9 | 2198.8 | 2070.7 | 2038.6 | 1699.7 | 1247.9 | 1022.0 | 894.6 | 639.6 | 448.5  |
| 117.5° | 2071.7 | 2213.8 | 2071.7 | 1929.7 | 1894.1 | 1588.3 | 1180.5 | 976.7  | 868.3 | 651.6 | 489.0  |
| 120°   | 1969.4 | 2107.5 | 1969.4 | 1831.3 | 1796.8 | 1517.4 | 1144.8 | 958.5  | 859.4 | 661.1 | 512.5  |
| 122.5° | 1869.8 | 2005.9 | 1869.8 | 1733.5 | 1699.5 | 1447.9 | 1112.4 | 944.7  | 854.9 | 675.1 | 540.3  |
| 125°   | 1727.5 | 1853.0 | 1727.5 | 1602.1 | 1570.7 | 1357.0 | 1072.0 | 929.6  | 851.0 | 693.8 | 576.0  |
| 127.5° | 1599.7 | 1705.5 | 1599.7 | 1493.9 | 1467.5 | 1283.9 | 1039.3 | 916.9  | 848.7 | 712.5 | 610.4  |
| 130°   | 1524.3 | 1622.1 | 1524.3 | 1426.6 | 1402.1 | 1238.8 | 1020.9 | 912.0  | 850.1 | 726.3 | 633.3  |
| 132.5° | 1455.9 | 1543.5 | 1455.9 | 1368.4 | 1346.5 | 1200.3 | 1005.2 | 907.8  | 851.0 | 737.3 | 652.1  |
| 135°   | 1362.3 | 1437.8 | 1362.3 | 1286.8 | 1267.9 | 1145.5 | 982.2  | 900.5  | 850.1 | 749.4 | 673.8  |
| 137.5° | 1287.2 | 1348.9 | 1287.2 | 1225.4 | 1210.0 | 1106.4 | 968.3  | 899.3  | 855.4 | 767.5 | 701.7  |
| 140°   | 1235.6 | 1293.3 | 1235.6 | 1177.8 | 1163.4 | 1073.9 | 954.7  | 895.1  | 856.3 | 778.7 | 720.5  |
| 142.5° | 1192.9 | 1242.5 | 1192.9 | 1143.2 | 1130.8 | 1052.2 | 947.5  | 895.1  | 859.3 | 787.9 | 734.3  |
| 145°   | 1128.9 | 1166.5 | 1128.9 | 1091.2 | 1081.8 | 1017.5 | 931.9  | 889.1  | 859.4 | 800.0 | 755.4  |
| 147.5° | 1079.7 | 1110.9 | 1079.7 | 1048.5 | 1040.7 | 990.1  | 922.8  | 889.1  | 865.3 | 817.7 | 782.1  |
| 150°   | 1048.7 | 1073.9 | 1048.7 | 1023.5 | 1017.2 | 974.4  | 917.5  | 889.1  | 868.3 | 826.9 | 795.9  |
| 152.5° | 1022.3 | 1041.3 | 1022.3 | 1003.2 | 998.5  | 962.0  | 913.4  | 889.1  | 870.4 | 833.0 | 805.0  |
| 155°   | 991.9  | 1004.5 | 991.9  | 979.3  | 976.1  | 947.1  | 908.4  | 889.1  | 874.8 | 846.3 | 825.0  |
| 157.5° | 967.7  | 976.7  | 967.7  | 958.9  | 956.7  | 934.1  | 904.1  | 889.1  | 879.3 | 859.6 | 844.9  |
| 160°   | 953.4  | 958.5  | 953.4  | 948.3  | 947.0  | 927.7  | 901.9  | 889.1  | 881.3 | 865.7 | 854.0  |
| 162.5° | 944.0  | 948.8  | 944.0  | 939.2  | 938.0  | 921.7  | 899.9  | 889.1  | 883.4 | 872.1 | 863.7  |
| 165°   | 930.4  | 935.6  | 930.4  | 925.3  | 924.0  | 912.4  | 896.8  | 889.1  | 886.5 | 881.4 | 877.5  |
| 167.5° | 920.7  | 922.9  | 920.7  | 918.6  | 918.0  | 910.4  | 900.2  | 895.1  | 892.9 | 888.6 | 885.4  |
| 170°   | 918.0  | 918.0  | 918.0  | 918.0  | 918.0  | 910.4  | 900.2  | 895.1  | 895.0 | 894.7 | 894.5  |
| 172.5° | 910.9  | 909.0  | 910.9  | 912.7  | 913.2  | 907.2  | 899.1  | 895.1  | 895.1 | 895.1 | 895.1  |
| 175°   | 906.6  | 906.6  | 906.6  | 906.6  | 906.6  | 902.7  | 897.6  | 895.1  | 896.2 | 898.7 | 900.5  |
| 177.5° | 902.6  | 900.5  | 902.6  | 904.8  | 905.3  | 902.3  | 898.4  | 896.3  | 897.3 | 899.1 | 900.5  |
| 180°   | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5 | 900.5 | 900.5  |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°   | 1372.5 | 1364.7 | 1364.7 | 1351.9 | 1346.8 | 1343.0 | 1336.6 | 1317.5 | 1312.3 | 1307.2 | 1314.8 |
| 5°     | 1384.0 | 1369.9 | 1359.7 | 1336.6 | 1317.5 | 1309.7 | 1285.4 | 1239.4 | 1208.5 | 1185.6 | 1172.8 |
| 7.5°   | 1386.5 | 1368.6 | 1349.4 | 1313.6 | 1267.5 | 1247.0 | 1172.8 | 1088.3 | 1065.2 | 1044.7 | 1031.9 |
| 10°    | 1384.0 | 1363.5 | 1336.6 | 1282.9 | 1174.0 | 1138.2 | 1063.9 | 1008.8 | 994.8  | 990.9  | 994.8  |
| 12.5°  | 1375.0 | 1355.8 | 1318.7 | 1229.1 | 1076.8 | 1052.4 | 1008.8 | 976.8  | 974.3  | 980.7  | 1015.2 |
| 15°    | 1359.7 | 1341.8 | 1298.2 | 1157.4 | 1023.0 | 1005.0 | 974.3  | 962.8  | 976.8  | 1021.6 | 1125.4 |
| 17.5°  | 1344.3 | 1323.8 | 1270.1 | 1086.9 | 982.0  | 969.2  | 947.4  | 970.5  | 1049.8 | 1110.0 | 1144.6 |
| 20°    | 1323.8 | 1299.5 | 1238.0 | 1035.8 | 952.5  | 941.0  | 930.7  | 1034.5 | 1094.7 | 1116.4 | 1135.6 |
| 22.5°  | 1299.5 | 1273.8 | 1194.5 | 999.9  | 921.8  | 912.8  | 919.2  | 1070.4 | 1094.7 | 1110.0 | 1126.7 |
| 25°    | 1267.5 | 1245.7 | 1143.3 | 971.7  | 897.5  | 887.2  | 911.5  | 1066.5 | 1080.5 | 1084.4 | 1117.6 |
| 27.5°  | 1238.0 | 1209.9 | 1089.5 | 946.1  | 868.0  | 864.2  | 917.9  | 1049.8 | 1060.1 | 1063.9 | 1099.7 |
| 30°    | 1202.1 | 1159.9 | 1029.4 | 919.2  | 837.3  | 836.1  | 919.2  | 1029.4 | 1026.8 | 1037.0 | 1072.9 |
| 32.5°  | 1165.0 | 1085.7 | 961.4  | 886.0  | 807.9  | 806.6  | 910.3  | 998.7  | 996.0  | 1010.2 | 1037.0 |
| 35°    | 1130.5 | 1028.1 | 869.3  | 847.6  | 770.7  | 772.0  | 888.5  | 962.8  | 964.1  | 976.8  | 993.5  |
| 37.5°  | 1094.7 | 978.1  | 768.1  | 805.3  | 734.9  | 734.9  | 859.0  | 929.5  | 926.9  | 930.7  | 953.8  |
| 40°    | 1052.4 | 900.0  | 678.6  | 750.2  | 701.6  | 697.8  | 823.3  | 893.6  | 884.7  | 883.4  | 915.4  |
| 42.5°  | 1007.6 | 814.3  | 612.0  | 677.2  | 663.2  | 658.0  | 779.7  | 850.1  | 833.4  | 837.3  | 878.3  |
| 45°    | 958.9  | 791.2  | 560.8  | 572.3  | 623.5  | 619.7  | 732.3  | 800.2  | 788.7  | 798.9  | 841.2  |
| 47.5°  | 910.3  | 745.2  | 544.1  | 475.0  | 581.2  | 579.9  | 679.9  | 751.6  | 745.2  | 755.3  | 800.2  |
| 50°    | 843.7  | 693.9  | 542.8  | 407.2  | 533.9  | 539.0  | 617.1  | 704.2  | 704.2  | 713.1  | 760.5  |
| 52.5°  | 758.0  | 631.2  | 492.9  | 368.7  | 478.8  | 494.2  | 562.0  | 663.2  | 665.7  | 674.7  | 717.0  |
| 55°    | 679.9  | 565.9  | 457.1  | 339.2  | 413.6  | 446.8  | 508.2  | 620.9  | 626.1  | 635.0  | 673.5  |
| 57.5°  | 608.1  | 471.1  | 449.4  | 304.8  | 353.4  | 385.4  | 460.9  | 579.9  | 582.6  | 590.2  | 627.3  |
| 60°    | 531.3  | 340.5  | 412.2  | 267.5  | 300.9  | 325.2  | 417.3  | 531.3  | 540.3  | 545.4  | 577.4  |
| 62.5°  | 444.3  | 247.1  | 373.8  | 242.0  | 275.3  | 280.4  | 381.5  | 485.2  | 496.7  | 500.6  | 519.8  |
| 65°    | 316.2  | 207.4  | 317.5  | 220.3  | 248.4  | 249.6  | 343.1  | 437.9  | 448.1  | 454.5  | 468.6  |
| 67.5°  | 213.8  | 169.0  | 242.0  | 199.7  | 227.9  | 229.2  | 306.0  | 382.8  | 396.9  | 402.0  | 411.0  |
| 70°    | 148.5  | 112.7  | 179.3  | 178.0  | 204.8  | 207.4  | 266.3  | 332.9  | 345.6  | 349.5  | 354.7  |
| 72.5°  | 108.8  | 90.9   | 148.5  | 160.1  | 180.5  | 183.0  | 225.3  | 276.6  | 289.3  | 293.2  | 295.7  |
| 75°    | 83.2   | 96.0   | 120.3  | 139.5  | 153.6  | 154.9  | 184.4  | 225.3  | 234.3  | 236.8  | 238.1  |
| 77.5°  | 66.6   | 89.6   | 88.4   | 112.7  | 125.5  | 122.9  | 144.7  | 174.1  | 181.8  | 181.8  | 181.8  |
| 80°    | 49.9   | 70.4   | 66.6   | 80.6   | 92.2   | 89.6   | 103.7  | 124.2  | 126.7  | 129.3  | 128.0  |
| 82.5°  | 37.1   | 44.8   | 44.8   | 51.2   | 61.4   | 58.9   | 69.1   | 80.6   | 80.6   | 80.6   | 83.2   |
| 85°    | 23.1   | 25.6   | 20.4   | 26.8   | 34.6   | 33.3   | 38.4   | 43.5   | 44.8   | 44.8   | 42.2   |
| 87.5°  | 14.1   | 11.5   | 6.4    | 10.3   | 15.4   | 15.4   | 17.9   | 19.2   | 17.9   | 17.9   | 17.9   |
| 90°    | 15.7   | 10.9   | 6.0    | 10.9   | 15.7   | 17.0   | 26.6   | 39.5   | 45.9   | 40.8   | 30.6   |
| 92.5°  | 106.4  | 65.2   | 24.1   | 65.2   | 106.4  | 116.7  | 164.0  | 227.0  | 258.6  | 226.6  | 162.8  |
| 95°    | 208.4  | 133.2  | 58.0   | 133.2  | 208.4  | 227.2  | 403.5  | 638.6  | 756.1  | 674.7  | 511.9  |
| 97.5°  | 233.0  | 166.7  | 100.3  | 166.7  | 233.0  | 249.6  | 543.5  | 935.5  | 1131.4 | 1080.0 | 977.0  |
| 100°   | 253.3  | 193.1  | 132.9  | 193.1  | 253.3  | 268.3  | 594.5  | 1029.4 | 1246.8 | 1250.6 | 1258.1 |
| 102.5° | 273.1  | 217.0  | 160.8  | 217.0  | 273.1  | 287.1  | 617.9  | 1058.9 | 1279.5 | 1345.0 | 1476.1 |
| 105°   | 303.0  | 255.5  | 207.9  | 255.5  | 303.0  | 314.9  | 635.2  | 1062.2 | 1275.8 | 1422.7 | 1716.6 |
| 107.5° | 345.0  | 300.6  | 256.3  | 300.6  | 345.0  | 356.0  | 638.5  | 1015.0 | 1203.3 | 1408.2 | 1818.1 |
| 110°   | 369.0  | 328.9  | 288.9  | 328.9  | 369.0  | 379.0  | 633.6  | 973.1  | 1142.8 | 1372.0 | 1830.2 |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°   | 230°   | 240°   |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| 112.5° | 397.3 | 359.1 | 320.9 | 359.1 | 397.3 | 406.8  | 633.8 | 936.5 | 1087.9 | 1322.4 | 1791.4 |
| 115°   | 439.6 | 404.5 | 369.3 | 404.5 | 439.6 | 448.5  | 639.6 | 894.6 | 1022.0 | 1247.9 | 1699.7 |
| 117.5° | 481.0 | 449.0 | 417.1 | 449.0 | 481.0 | 489.0  | 651.6 | 868.3 | 976.7  | 1180.5 | 1588.3 |
| 120°   | 504.9 | 474.9 | 444.8 | 474.9 | 504.9 | 512.5  | 661.1 | 859.4 | 958.5  | 1144.8 | 1517.4 |
| 122.5° | 532.8 | 502.3 | 472.0 | 502.3 | 532.8 | 540.3  | 675.1 | 854.9 | 944.7  | 1112.4 | 1447.9 |
| 125°   | 569.1 | 541.4 | 513.8 | 541.4 | 569.1 | 576.0  | 693.8 | 851.0 | 929.6  | 1072.0 | 1357.0 |
| 127.5° | 603.4 | 575.5 | 547.6 | 575.5 | 603.4 | 610.4  | 712.5 | 848.7 | 916.9  | 1039.3 | 1283.9 |
| 130°   | 625.8 | 595.7 | 565.7 | 595.7 | 625.8 | 633.3  | 726.3 | 850.1 | 912.0  | 1020.9 | 1238.8 |
| 132.5° | 644.6 | 614.5 | 584.4 | 614.5 | 644.6 | 652.1  | 737.3 | 851.0 | 907.8  | 1005.2 | 1200.3 |
| 135°   | 667.0 | 639.6 | 612.2 | 639.6 | 667.0 | 673.8  | 749.4 | 850.1 | 900.5  | 982.2  | 1145.5 |
| 137.5° | 694.9 | 667.7 | 640.6 | 667.7 | 694.9 | 701.7  | 767.5 | 855.4 | 899.3  | 968.3  | 1106.4 |
| 140°   | 714.2 | 689.2 | 664.2 | 689.2 | 714.2 | 720.5  | 778.7 | 856.3 | 895.1  | 954.7  | 1073.9 |
| 142.5° | 728.5 | 705.4 | 682.4 | 705.4 | 728.5 | 734.3  | 787.9 | 859.3 | 895.1  | 947.5  | 1052.2 |
| 145°   | 750.4 | 730.3 | 710.2 | 730.3 | 750.4 | 755.4  | 800.0 | 859.4 | 889.1  | 931.9  | 1017.5 |
| 147.5° | 777.1 | 757.6 | 737.9 | 757.6 | 777.1 | 782.1  | 817.7 | 865.3 | 889.1  | 922.8  | 990.1  |
| 150°   | 791.5 | 773.8 | 756.1 | 773.8 | 791.5 | 795.9  | 826.9 | 868.3 | 889.1  | 917.5  | 974.4  |
| 152.5° | 801.7 | 788.3 | 774.8 | 788.3 | 801.7 | 805.0  | 833.0 | 870.4 | 889.1  | 913.4  | 962.0  |
| 155°   | 822.5 | 812.6 | 802.6 | 812.6 | 822.5 | 825.0  | 846.3 | 874.8 | 889.1  | 908.4  | 947.1  |
| 157.5° | 842.4 | 832.9 | 823.2 | 832.9 | 842.4 | 844.9  | 859.6 | 879.3 | 889.1  | 904.1  | 934.1  |
| 160°   | 852.1 | 844.6 | 837.0 | 844.6 | 852.1 | 854.0  | 865.7 | 881.3 | 889.1  | 901.9  | 927.7  |
| 162.5° | 862.2 | 856.6 | 851.0 | 856.6 | 862.2 | 863.7  | 872.1 | 883.4 | 889.1  | 899.9  | 921.7  |
| 165°   | 876.3 | 871.1 | 866.1 | 871.1 | 876.3 | 877.5  | 881.4 | 886.5 | 889.1  | 896.8  | 912.4  |
| 167.5° | 884.8 | 882.4 | 879.9 | 882.4 | 884.8 | 885.4  | 888.6 | 892.9 | 895.1  | 900.2  | 910.4  |
| 170°   | 893.9 | 891.5 | 889.1 | 891.5 | 893.9 | 894.5  | 894.7 | 895.0 | 895.1  | 900.2  | 910.4  |
| 172.5° | 895.0 | 894.4 | 893.9 | 894.4 | 895.0 | 895.1  | 895.1 | 895.1 | 895.1  | 899.1  | 907.2  |
| 175°   | 900.5 | 900.5 | 900.5 | 900.5 | 900.5 | 900.5  | 898.7 | 896.2 | 895.1  | 897.6  | 902.7  |
| 177.5° | 900.5 | 900.5 | 900.5 | 900.5 | 900.5 | 900.5  | 899.1 | 897.3 | 896.3  | 898.4  | 902.3  |
| 180°   | 900.5 | 900.5 | 900.5 | 900.5 | 900.5 | 900.5  | 900.5 | 900.5 | 900.5  | 900.5  | 900.5  |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°   | 1305.9 | 1302.0 | 1307.2 | 1293.0 | 1307.2 | 1302.0 | 1305.9 | 1314.8 | 1307.2 | 1312.3 | 1317.5 |
| 5°     | 1145.8 | 1139.4 | 1119.0 | 1102.3 | 1119.0 | 1139.4 | 1145.8 | 1172.8 | 1185.6 | 1208.5 | 1239.4 |
| 7.5°   | 1024.2 | 1019.1 | 1014.0 | 1003.7 | 1014.0 | 1019.1 | 1024.2 | 1031.9 | 1044.7 | 1065.2 | 1088.3 |
| 10°    | 997.3  | 998.7  | 1006.3 | 1005.0 | 1006.3 | 998.7  | 997.3  | 994.8  | 990.9  | 994.8  | 1008.8 |
| 12.5°  | 1066.5 | 1078.0 | 1120.3 | 1117.6 | 1120.3 | 1078.0 | 1066.5 | 1015.2 | 980.7  | 974.3  | 976.8  |
| 15°    | 1145.8 | 1149.7 | 1158.6 | 1159.9 | 1158.6 | 1149.7 | 1145.8 | 1125.4 | 1021.6 | 976.8  | 962.8  |
| 17.5°  | 1153.5 | 1154.9 | 1161.2 | 1161.2 | 1161.2 | 1154.9 | 1153.5 | 1144.6 | 1110.0 | 1049.8 | 970.5  |
| 20°    | 1147.1 | 1149.7 | 1162.5 | 1165.0 | 1162.5 | 1149.7 | 1147.1 | 1135.6 | 1116.4 | 1094.7 | 1034.5 |
| 22.5°  | 1144.6 | 1149.7 | 1159.9 | 1158.6 | 1159.9 | 1149.7 | 1144.6 | 1126.7 | 1110.0 | 1094.7 | 1070.4 |
| 25°    | 1131.8 | 1131.8 | 1133.1 | 1134.3 | 1133.1 | 1131.8 | 1131.8 | 1117.6 | 1084.4 | 1080.5 | 1066.5 |
| 27.5°  | 1104.9 | 1107.5 | 1115.1 | 1113.9 | 1115.1 | 1107.5 | 1104.9 | 1099.7 | 1063.9 | 1060.1 | 1049.8 |
| 30°    | 1080.5 | 1078.0 | 1071.6 | 1066.5 | 1071.6 | 1078.0 | 1080.5 | 1072.9 | 1037.0 | 1026.8 | 1029.4 |
| 32.5°  | 1039.5 | 1033.1 | 1026.8 | 1023.0 | 1026.8 | 1033.1 | 1039.5 | 1037.0 | 1010.2 | 996.0  | 998.7  |
| 35°    | 990.9  | 992.3  | 990.9  | 987.1  | 990.9  | 992.3  | 990.9  | 993.5  | 976.8  | 964.1  | 962.8  |
| 37.5°  | 956.4  | 958.9  | 957.7  | 952.5  | 957.7  | 958.9  | 956.4  | 953.8  | 930.7  | 926.9  | 929.5  |
| 40°    | 920.6  | 921.8  | 920.6  | 916.7  | 920.6  | 921.8  | 920.6  | 915.4  | 883.4  | 884.7  | 893.6  |
| 42.5°  | 886.0  | 884.7  | 880.8  | 878.3  | 880.8  | 884.7  | 886.0  | 878.3  | 837.3  | 833.4  | 850.1  |
| 45°    | 846.2  | 847.6  | 839.8  | 836.1  | 839.8  | 847.6  | 846.2  | 841.2  | 798.9  | 788.7  | 800.2  |
| 47.5°  | 806.6  | 806.6  | 800.2  | 796.3  | 800.2  | 806.6  | 806.6  | 800.2  | 755.3  | 745.2  | 751.6  |
| 50°    | 764.3  | 763.1  | 754.1  | 752.8  | 754.1  | 763.1  | 764.3  | 760.5  | 713.1  | 704.2  | 704.2  |
| 52.5°  | 715.7  | 715.7  | 717.0  | 719.5  | 717.0  | 715.7  | 715.7  | 717.0  | 674.7  | 665.7  | 663.2  |
| 55°    | 673.5  | 674.7  | 683.6  | 686.2  | 683.6  | 674.7  | 673.5  | 673.5  | 635.0  | 626.1  | 620.9  |
| 57.5°  | 629.8  | 629.8  | 636.3  | 636.3  | 636.3  | 629.8  | 629.8  | 627.3  | 590.2  | 582.6  | 579.9  |
| 60°    | 579.9  | 582.6  | 587.6  | 586.3  | 587.6  | 582.6  | 579.9  | 577.4  | 545.4  | 540.3  | 531.3  |
| 62.5°  | 527.4  | 530.0  | 531.3  | 528.8  | 531.3  | 530.0  | 527.4  | 519.8  | 500.6  | 496.7  | 485.2  |
| 65°    | 472.4  | 475.0  | 476.3  | 473.7  | 476.3  | 475.0  | 472.4  | 468.6  | 454.5  | 448.1  | 437.9  |
| 67.5°  | 416.1  | 414.8  | 413.6  | 418.6  | 413.6  | 414.8  | 416.1  | 411.0  | 402.0  | 396.9  | 382.8  |
| 70°    | 358.4  | 358.4  | 357.2  | 359.8  | 357.2  | 358.4  | 358.4  | 354.7  | 349.5  | 345.6  | 332.9  |
| 72.5°  | 297.0  | 295.7  | 300.9  | 297.0  | 300.9  | 295.7  | 297.0  | 295.7  | 293.2  | 289.3  | 276.6  |
| 75°    | 236.8  | 239.4  | 236.8  | 240.7  | 236.8  | 239.4  | 236.8  | 238.1  | 236.8  | 234.3  | 225.3  |
| 77.5°  | 180.5  | 183.0  | 180.5  | 180.5  | 180.5  | 183.0  | 180.5  | 181.8  | 181.8  | 181.8  | 174.1  |
| 80°    | 128.0  | 126.7  | 126.7  | 125.5  | 126.7  | 126.7  | 128.0  | 128.0  | 129.3  | 126.7  | 124.2  |
| 82.5°  | 82.0   | 80.6   | 80.6   | 83.2   | 80.6   | 80.6   | 82.0   | 83.2   | 80.6   | 80.6   | 80.6   |
| 85°    | 44.8   | 46.1   | 43.5   | 43.5   | 43.5   | 46.1   | 44.8   | 42.2   | 44.8   | 44.8   | 43.5   |
| 87.5°  | 16.7   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 16.7   | 17.9   | 17.9   | 17.9   | 19.2   |
| 90°    | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 30.6   | 40.8   | 45.9   | 39.5   |
| 92.5°  | 114.8  | 110.3  | 92.0   | 73.7   | 92.0   | 110.3  | 114.8  | 162.8  | 226.6  | 258.6  | 227.0  |
| 95°    | 389.8  | 376.0  | 320.6  | 265.3  | 320.6  | 376.0  | 389.8  | 511.9  | 674.7  | 756.1  | 638.6  |
| 97.5°  | 899.9  | 873.6  | 768.3  | 663.0  | 768.3  | 873.6  | 899.9  | 977.0  | 1080.0 | 1131.4 | 935.5  |
| 100°   | 1263.8 | 1232.4 | 1107.0 | 981.5  | 1107.0 | 1232.4 | 1263.8 | 1258.1 | 1250.6 | 1246.8 | 1029.4 |
| 102.5° | 1574.4 | 1547.6 | 1440.1 | 1332.7 | 1440.1 | 1547.6 | 1574.4 | 1476.1 | 1345.0 | 1279.5 | 1058.9 |
| 105°   | 1937.0 | 1922.6 | 1864.8 | 1807.1 | 1864.8 | 1922.6 | 1937.0 | 1716.6 | 1422.7 | 1275.8 | 1062.2 |
| 107.5° | 2125.6 | 2129.1 | 2143.0 | 2157.0 | 2143.0 | 2129.1 | 2125.6 | 1818.1 | 1408.2 | 1203.3 | 1015.0 |
| 110°   | 2174.0 | 2189.0 | 2249.1 | 2309.3 | 2249.1 | 2189.0 | 2174.0 | 1830.2 | 1372.0 | 1142.8 | 973.1  |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 112.5° | 2143.1 | 2166.2 | 2258.6 | 2351.0 | 2258.6 | 2166.2 | 2143.1 | 1791.4 | 1322.4 | 1087.9 | 936.5 |
| 115°   | 2038.6 | 2070.7 | 2198.8 | 2326.9 | 2198.8 | 2070.7 | 2038.6 | 1699.7 | 1247.9 | 1022.0 | 894.6 |
| 117.5° | 1894.1 | 1929.7 | 2071.7 | 2213.8 | 2071.7 | 1929.7 | 1894.1 | 1588.3 | 1180.5 | 976.7  | 868.3 |
| 120°   | 1796.8 | 1831.3 | 1969.4 | 2107.5 | 1969.4 | 1831.3 | 1796.8 | 1517.4 | 1144.8 | 958.5  | 859.4 |
| 122.5° | 1699.5 | 1733.5 | 1869.8 | 2005.9 | 1869.8 | 1733.5 | 1699.5 | 1447.9 | 1112.4 | 944.7  | 854.9 |
| 125°   | 1570.7 | 1602.1 | 1727.5 | 1853.0 | 1727.5 | 1602.1 | 1570.7 | 1357.0 | 1072.0 | 929.6  | 851.0 |
| 127.5° | 1467.5 | 1493.9 | 1599.7 | 1705.5 | 1599.7 | 1493.9 | 1467.5 | 1283.9 | 1039.3 | 916.9  | 848.7 |
| 130°   | 1402.1 | 1426.6 | 1524.3 | 1622.1 | 1524.3 | 1426.6 | 1402.1 | 1238.8 | 1020.9 | 912.0  | 850.1 |
| 132.5° | 1346.5 | 1368.4 | 1455.9 | 1543.5 | 1455.9 | 1368.4 | 1346.5 | 1200.3 | 1005.2 | 907.8  | 851.0 |
| 135°   | 1267.9 | 1286.8 | 1362.3 | 1437.8 | 1362.3 | 1286.8 | 1267.9 | 1145.5 | 982.2  | 900.5  | 850.1 |
| 137.5° | 1210.0 | 1225.4 | 1287.2 | 1348.9 | 1287.2 | 1225.4 | 1210.0 | 1106.4 | 968.3  | 899.3  | 855.4 |
| 140°   | 1163.4 | 1177.8 | 1235.6 | 1293.3 | 1235.6 | 1177.8 | 1163.4 | 1073.9 | 954.7  | 895.1  | 856.3 |
| 142.5° | 1130.8 | 1143.2 | 1192.9 | 1242.5 | 1192.9 | 1143.2 | 1130.8 | 1052.2 | 947.5  | 895.1  | 859.3 |
| 145°   | 1081.8 | 1091.2 | 1128.9 | 1166.5 | 1128.9 | 1091.2 | 1081.8 | 1017.5 | 931.9  | 889.1  | 859.4 |
| 147.5° | 1040.7 | 1048.5 | 1079.7 | 1110.9 | 1079.7 | 1048.5 | 1040.7 | 990.1  | 922.8  | 889.1  | 865.3 |
| 150°   | 1017.2 | 1023.5 | 1048.7 | 1073.9 | 1048.7 | 1023.5 | 1017.2 | 974.4  | 917.5  | 889.1  | 868.3 |
| 152.5° | 998.5  | 1003.2 | 1022.3 | 1041.3 | 1022.3 | 1003.2 | 998.5  | 962.0  | 913.4  | 889.1  | 870.4 |
| 155°   | 976.1  | 979.3  | 991.9  | 1004.5 | 991.9  | 979.3  | 976.1  | 947.1  | 908.4  | 889.1  | 874.8 |
| 157.5° | 956.7  | 958.9  | 967.7  | 976.7  | 967.7  | 958.9  | 956.7  | 934.1  | 904.1  | 889.1  | 879.3 |
| 160°   | 947.0  | 948.3  | 953.4  | 958.5  | 953.4  | 948.3  | 947.0  | 927.7  | 901.9  | 889.1  | 881.3 |
| 162.5° | 938.0  | 939.2  | 944.0  | 948.8  | 944.0  | 939.2  | 938.0  | 921.7  | 899.9  | 889.1  | 883.4 |
| 165°   | 924.0  | 925.3  | 930.4  | 935.6  | 930.4  | 925.3  | 924.0  | 912.4  | 896.8  | 889.1  | 886.5 |
| 167.5° | 918.0  | 918.6  | 920.7  | 922.9  | 920.7  | 918.6  | 918.0  | 910.4  | 900.2  | 895.1  | 892.9 |
| 170°   | 918.0  | 918.0  | 918.0  | 918.0  | 918.0  | 918.0  | 918.0  | 910.4  | 900.2  | 895.1  | 895.0 |
| 172.5° | 913.2  | 912.7  | 910.9  | 909.0  | 910.9  | 912.7  | 913.2  | 907.2  | 899.1  | 895.1  | 895.1 |
| 175°   | 906.6  | 906.6  | 906.6  | 906.6  | 906.6  | 906.6  | 906.6  | 902.7  | 897.6  | 895.1  | 896.2 |
| 177.5° | 905.3  | 904.8  | 902.6  | 900.5  | 902.6  | 904.8  | 905.3  | 902.3  | 898.4  | 896.3  | 897.3 |
| 180°   | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5  | 900.5 |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1353.2 | 1353.2 | 1353.2 | 1353.2 | 1353.2 |
| 2.5°   | 1336.6 | 1343.0 | 1346.8 | 1351.9 | 1364.7 |
| 5°     | 1285.4 | 1309.7 | 1317.5 | 1336.6 | 1359.7 |
| 7.5°   | 1172.8 | 1247.0 | 1267.5 | 1313.6 | 1349.4 |
| 10°    | 1063.9 | 1138.2 | 1174.0 | 1282.9 | 1336.6 |
| 12.5°  | 1008.8 | 1052.4 | 1076.8 | 1229.1 | 1318.7 |
| 15°    | 974.3  | 1005.0 | 1023.0 | 1157.4 | 1298.2 |
| 17.5°  | 947.4  | 969.2  | 982.0  | 1086.9 | 1270.1 |
| 20°    | 930.7  | 941.0  | 952.5  | 1035.8 | 1238.0 |
| 22.5°  | 919.2  | 912.8  | 921.8  | 999.9  | 1194.5 |
| 25°    | 911.5  | 887.2  | 897.5  | 971.7  | 1143.3 |
| 27.5°  | 917.9  | 864.2  | 868.0  | 946.1  | 1089.5 |
| 30°    | 919.2  | 836.1  | 837.3  | 919.2  | 1029.4 |
| 32.5°  | 910.3  | 806.6  | 807.9  | 886.0  | 961.4  |
| 35°    | 888.5  | 772.0  | 770.7  | 847.6  | 869.3  |
| 37.5°  | 859.0  | 734.9  | 734.9  | 805.3  | 768.1  |
| 40°    | 823.3  | 697.8  | 701.6  | 750.2  | 678.6  |
| 42.5°  | 779.7  | 658.0  | 663.2  | 677.2  | 612.0  |
| 45°    | 732.3  | 619.7  | 623.5  | 572.3  | 560.8  |
| 47.5°  | 679.9  | 579.9  | 581.2  | 475.0  | 544.1  |
| 50°    | 617.1  | 539.0  | 533.9  | 407.2  | 542.8  |
| 52.5°  | 562.0  | 494.2  | 478.8  | 368.7  | 492.9  |
| 55°    | 508.2  | 446.8  | 413.6  | 339.2  | 457.1  |
| 57.5°  | 460.9  | 385.4  | 353.4  | 304.8  | 449.4  |
| 60°    | 417.3  | 325.2  | 300.9  | 267.5  | 412.2  |
| 62.5°  | 381.5  | 280.4  | 275.3  | 242.0  | 373.8  |
| 65°    | 343.1  | 249.6  | 248.4  | 220.3  | 317.5  |
| 67.5°  | 306.0  | 229.2  | 227.9  | 199.7  | 242.0  |
| 70°    | 266.3  | 207.4  | 204.8  | 178.0  | 179.3  |
| 72.5°  | 225.3  | 183.0  | 180.5  | 160.1  | 148.5  |
| 75°    | 184.4  | 154.9  | 153.6  | 139.5  | 120.3  |
| 77.5°  | 144.7  | 122.9  | 125.5  | 112.7  | 88.4   |
| 80°    | 103.7  | 89.6   | 92.2   | 80.6   | 66.6   |
| 82.5°  | 69.1   | 58.9   | 61.4   | 51.2   | 44.8   |
| 85°    | 38.4   | 33.3   | 34.6   | 26.8   | 20.4   |
| 87.5°  | 17.9   | 15.4   | 15.4   | 10.3   | 6.4    |
| 90°    | 26.6   | 17.0   | 15.7   | 10.9   | 6.0    |
| 92.5°  | 164.0  | 116.7  | 106.4  | 65.2   | 24.1   |
| 95°    | 403.5  | 227.2  | 208.4  | 133.2  | 58.0   |
| 97.5°  | 543.5  | 249.6  | 233.0  | 166.7  | 100.3  |
| 100°   | 594.5  | 268.3  | 253.3  | 193.1  | 132.9  |
| 102.5° | 617.9  | 287.1  | 273.1  | 217.0  | 160.8  |
| 105°   | 635.2  | 314.9  | 303.0  | 255.5  | 207.9  |
| 107.5° | 638.5  | 356.0  | 345.0  | 300.6  | 256.3  |
| 110°   | 633.6  | 379.0  | 369.0  | 328.9  | 288.9  |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 633.8 | 406.8  | 397.3 | 359.1 | 320.9 |
| 115°   | 639.6 | 448.5  | 439.6 | 404.5 | 369.3 |
| 117.5° | 651.6 | 489.0  | 481.0 | 449.0 | 417.1 |
| 120°   | 661.1 | 512.5  | 504.9 | 474.9 | 444.8 |
| 122.5° | 675.1 | 540.3  | 532.8 | 502.3 | 472.0 |
| 125°   | 693.8 | 576.0  | 569.1 | 541.4 | 513.8 |
| 127.5° | 712.5 | 610.4  | 603.4 | 575.5 | 547.6 |
| 130°   | 726.3 | 633.3  | 625.8 | 595.7 | 565.7 |
| 132.5° | 737.3 | 652.1  | 644.6 | 614.5 | 584.4 |
| 135°   | 749.4 | 673.8  | 667.0 | 639.6 | 612.2 |
| 137.5° | 767.5 | 701.7  | 694.9 | 667.7 | 640.6 |
| 140°   | 778.7 | 720.5  | 714.2 | 689.2 | 664.2 |
| 142.5° | 787.9 | 734.3  | 728.5 | 705.4 | 682.4 |
| 145°   | 800.0 | 755.4  | 750.4 | 730.3 | 710.2 |
| 147.5° | 817.7 | 782.1  | 777.1 | 757.6 | 737.9 |
| 150°   | 826.9 | 795.9  | 791.5 | 773.8 | 756.1 |
| 152.5° | 833.0 | 805.0  | 801.7 | 788.3 | 774.8 |
| 155°   | 846.3 | 825.0  | 822.5 | 812.6 | 802.6 |
| 157.5° | 859.6 | 844.9  | 842.4 | 832.9 | 823.2 |
| 160°   | 865.7 | 854.0  | 852.1 | 844.6 | 837.0 |
| 162.5° | 872.1 | 863.7  | 862.2 | 856.6 | 851.0 |
| 165°   | 881.4 | 877.5  | 876.3 | 871.1 | 866.1 |
| 167.5° | 888.6 | 885.4  | 884.8 | 882.4 | 879.9 |
| 170°   | 894.7 | 894.5  | 893.9 | 891.5 | 889.1 |
| 172.5° | 895.1 | 895.1  | 895.0 | 894.4 | 893.9 |
| 175°   | 898.7 | 900.5  | 900.5 | 900.5 | 900.5 |
| 177.5° | 899.1 | 900.5  | 900.5 | 900.5 | 900.5 |
| 180°   | 900.5 | 900.5  | 900.5 | 900.5 | 900.5 |

TEST NUMBER: P936084

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-W2A-W-4-3500K

**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 | 12.31            | 13.07 | 13.37 | 14.13 | 15.57 | 15.11          | 15.87 | 16.17 | 16.93 | 18.37 |
|                 | 3H   | 12.78            | 13.46 | 13.85 | 14.53 | 15.99 | 16.44          | 17.12 | 17.50 | 18.19 | 19.64 |
|                 | 4H   | 12.97            | 13.61 | 14.05 | 14.68 | 16.15 | 16.87          | 17.52 | 17.95 | 18.59 | 20.05 |
|                 | 6H   | 13.08            | 13.68 | 14.17 | 14.75 | 16.23 | 17.14          | 17.74 | 18.23 | 18.81 | 20.29 |
|                 | 8H   | 13.08            | 13.64 | 14.17 | 14.74 | 16.21 | 17.21          | 17.77 | 18.30 | 18.87 | 20.33 |
|                 | 12H  | 13.05            | 13.58 | 14.14 | 14.67 | 16.16 | 17.24          | 17.78 | 18.34 | 18.86 | 20.35 |
| 4H              | 2H   | 13.32            | 13.97 | 14.41 | 15.04 | 16.50 | 15.51          | 16.15 | 16.59 | 17.22 | 18.69 |
|                 | 3H   | 14.34            | 14.88 | 15.43 | 15.98 | 17.45 | 16.99          | 17.53 | 18.09 | 18.63 | 20.11 |
|                 | 4H   | 14.61            | 15.11 | 15.71 | 16.19 | 17.69 | 17.51          | 18.00 | 18.61 | 19.09 | 20.59 |
|                 | 6H   | 14.73            | 15.16 | 15.84 | 16.27 | 17.76 | 17.86          | 18.29 | 18.97 | 19.40 | 20.89 |
|                 | 8H   | 14.74            | 15.13 | 15.84 | 16.24 | 17.74 | 17.96          | 18.36 | 19.07 | 19.46 | 20.97 |
|                 | 12H  | 14.70            | 15.06 | 15.82 | 16.17 | 17.68 | 18.01          | 18.37 | 19.13 | 19.48 | 21.00 |
| 8H              | 4H   | 15.05            | 15.45 | 16.16 | 16.55 | 18.06 | 17.63          | 18.02 | 18.73 | 19.13 | 20.63 |
|                 | 6H   | 15.31            | 15.64 | 16.44 | 16.78 | 18.29 | 18.05          | 18.38 | 19.18 | 19.52 | 21.03 |
|                 | 8H   | 15.35            | 15.64 | 16.49 | 16.76 | 18.29 | 18.20          | 18.48 | 19.33 | 19.61 | 21.13 |
|                 | 12H  | 15.33            | 15.58 | 16.47 | 16.71 | 18.27 | 18.29          | 18.54 | 19.42 | 19.66 | 21.22 |
| 12H             | 4H   | 15.05            | 15.41 | 16.18 | 16.53 | 18.04 | 17.59          | 17.95 | 18.71 | 19.06 | 20.57 |
|                 | 6H   | 15.37            | 15.66 | 16.50 | 16.78 | 18.31 | 18.05          | 18.33 | 19.18 | 19.46 | 20.99 |
|                 | 8H   | 15.43            | 15.68 | 16.57 | 16.81 | 18.37 | 18.20          | 18.45 | 19.34 | 19.58 | 21.14 |