

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: P934364

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

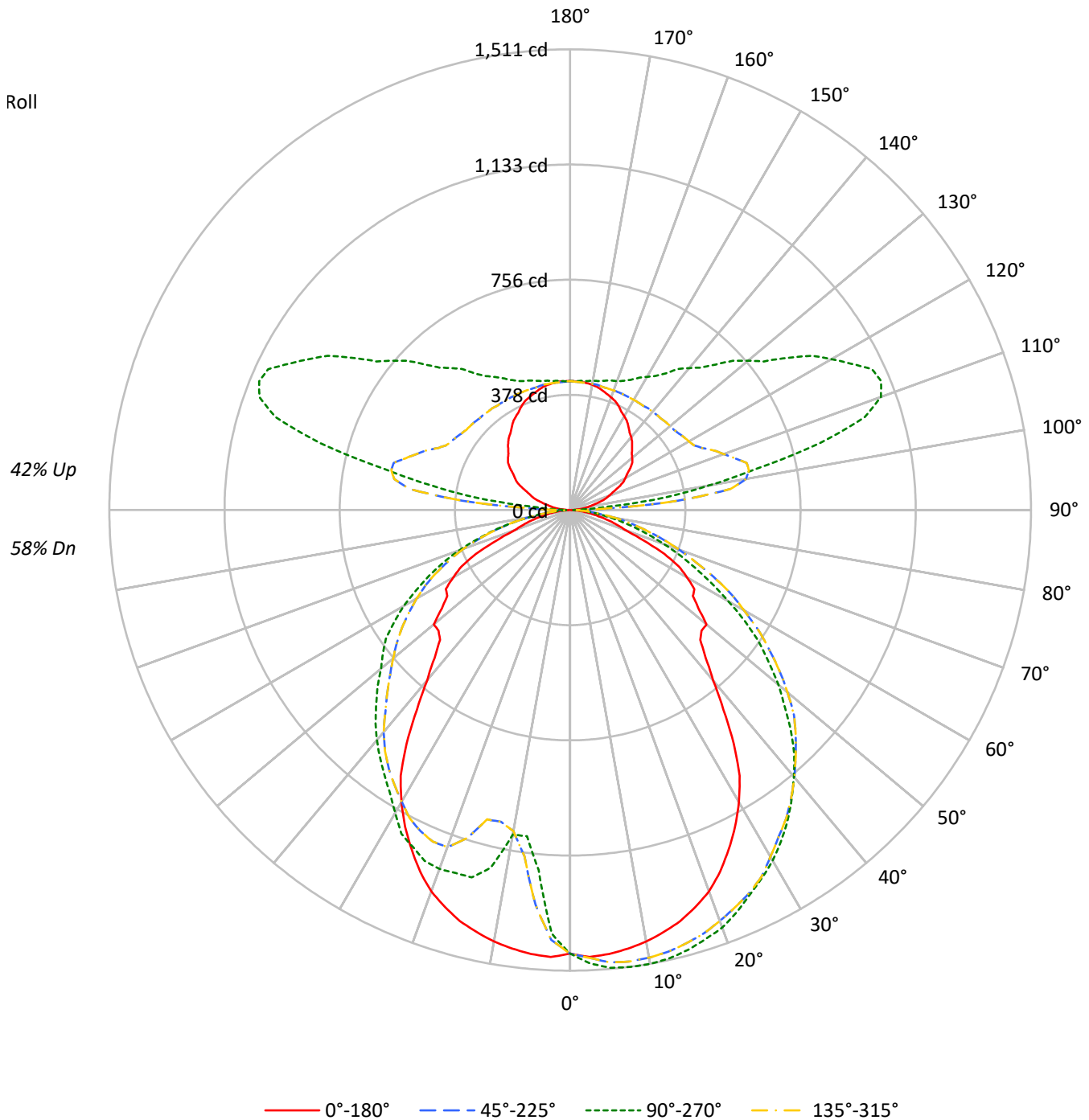
Test Method: LM-79-2019  
Report Number: P934364  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6514.7 lumens  
Efficiency: N/A  
Efficacy: 119.3 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: General Diffuse  
  
Input Watts (W): 54.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934364  
CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 | 58 |
| 1   | 100 | 95  | 91  | 88  | 93  | 89  | 86  | 83  | 77 | 75 | 72 | 66 | 64 | 63 | 56 | 55 | 54 | 49 |
| 2   | 91  | 83  | 77  | 72  | 84  | 78  | 72  | 68  | 68 | 63 | 60 | 58 | 55 | 52 | 49 | 47 | 45 | 41 |
| 3   | 83  | 73  | 66  | 60  | 77  | 68  | 62  | 57  | 60 | 55 | 50 | 51 | 48 | 44 | 44 | 41 | 39 | 35 |
| 4   | 76  | 65  | 57  | 51  | 70  | 61  | 54  | 48  | 53 | 47 | 43 | 46 | 41 | 38 | 39 | 36 | 33 | 30 |
| 5   | 70  | 58  | 49  | 43  | 65  | 54  | 47  | 41  | 47 | 42 | 37 | 41 | 37 | 33 | 35 | 32 | 29 | 26 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 41  | 36  | 43 | 37 | 32 | 37 | 32 | 29 | 32 | 28 | 25 | 23 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 31  | 39 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 23 | 20 |
| 8   | 55  | 42  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 18 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 20 | 25 | 21 | 18 | 16 |
| 10  | 48  | 36  | 28  | 23  | 45  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 17 | 15 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 9001 | 9001 | 9001 | 9001 |
| 5°  | 9065 | 9086 | 9065 | 7144 |
| 10° | 9001 | 8950 | 9001 | 6399 |
| 15° | 8899 | 8756 | 8899 | 7311 |
| 20° | 8710 | 8527 | 8710 | 7327 |
| 25° | 8326 | 8192 | 8326 | 7171 |
| 30° | 7830 | 7914 | 7830 | 6831 |
| 35° | 6977 | 7561 | 6977 | 6456 |
| 40° | 5811 | 7148 | 5811 | 6173 |
| 45° | 5188 | 6662 | 5188 | 5848 |
| 50° | 5508 | 6084 | 5508 | 5521 |
| 55° | 5177 | 5461 | 5177 | 5332 |
| 60° | 5330 | 4638 | 5330 | 4884 |
| 65° | 4825 | 3834 | 4825 | 4286 |
| 70° | 3333 | 3056 | 3333 | 3593 |
| 75° | 2912 | 2259 | 2912 | 2705 |
| 80° | 2330 | 1493 | 2330 | 1626 |
| 85° | 1312 | 791  | 1312 | 672  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7957 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.3  | 2.0       |
| 10°-20°   | 372.9  | 5.7       |
| 20°-30°   | 576.5  | 8.8       |
| 30°-40°   | 688.2  | 10.6      |
| 40°-50°   | 692.2  | 10.6      |
| 50°-60°   | 602.3  | 9.2       |
| 60°-70°   | 427.0  | 6.6       |
| 70°-80°   | 225.9  | 3.5       |
| 80°-90°   | 57.9   | 0.9       |
| 90°-100°  | 206.1  | 3.2       |
| 100°-110° | 541.8  | 8.3       |
| 110°-120° | 561.8  | 8.6       |
| 120°-130° | 450.6  | 6.9       |
| 130°-140° | 353.5  | 5.4       |
| 140°-150° | 271.4  | 4.2       |
| 150°-160° | 195.4  | 3.0       |
| 160°-170° | 119.6  | 1.8       |
| 170°-180° | 40.4   | 0.6       |
| 0°-30°    | 1080.7 | 16.6      |
| 0°-40°    | 1768.9 | 27.2      |
| 0°-60°    | 3063.3 | 47.0      |
| 0°-90°    | 3774.2 | 57.9      |
| 90°-120°  | 1309.6 | 20.1      |
| 90°-150°  | 2385.1 | 36.6      |
| 90°-180°  | 2740.0 | 42.1      |
| 0°-180°   | 6514.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1455 | 1455 | 1455 | 1455 | 1455 |      |
| 5°   | 1462 | 1507 | 1462 | 1185 | 1462 | 139  |
| 15°  | 1396 | 1494 | 1396 | 1247 | 1396 | 393  |
| 25°  | 1229 | 1393 | 1229 | 1220 | 1229 | 564  |
| 35°  | 935  | 1243 | 935  | 1061 | 935  | 578  |
| 45°  | 603  | 1024 | 603  | 899  | 603  | 483  |
| 55°  | 491  | 756  | 491  | 738  | 491  | 452  |
| 65°  | 341  | 456  | 341  | 509  | 341  | 326  |
| 75°  | 129  | 216  | 129  | 259  | 129  | 136  |
| 85°  | 22   | 55   | 22   | 47   | 22   | 30   |
| 90°  | 3    | 11   | 3    | 11   | 3    | 3    |
| 95°  | 27   | 124  | 27   | 124  | 27   | 30   |
| 105° | 98   | 848  | 98   | 848  | 98   | 103  |
| 115° | 173  | 1092 | 173  | 1092 | 173  | 171  |
| 125° | 241  | 870  | 241  | 870  | 241  | 214  |
| 135° | 287  | 675  | 287  | 675  | 287  | 222  |
| 145° | 333  | 548  | 333  | 548  | 333  | 209  |
| 155° | 377  | 472  | 377  | 472  | 377  | 173  |
| 165° | 406  | 439  | 406  | 439  | 406  | 115  |
| 175° | 423  | 426  | 423  | 426  | 423  | 40   |
| 180° | 423  | 423  | 423  | 423  | 423  |      |



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CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 |
| 2.5°   | 1467.4 | 1467.4 | 1475.7 | 1478.4 | 1478.4 | 1474.3 | 1470.1 | 1474.3 | 1486.7 | 1490.8 | 1489.4 |
| 5°     | 1461.9 | 1472.9 | 1488.0 | 1490.8 | 1493.5 | 1492.2 | 1489.4 | 1492.2 | 1505.9 | 1508.7 | 1510.1 |
| 7.5°   | 1450.9 | 1471.5 | 1490.8 | 1494.9 | 1499.1 | 1494.9 | 1493.5 | 1496.3 | 1510.1 | 1512.8 | 1512.8 |
| 10°    | 1437.1 | 1466.0 | 1488.0 | 1490.8 | 1494.9 | 1490.8 | 1490.8 | 1496.3 | 1510.1 | 1512.8 | 1514.2 |
| 12.5°  | 1417.8 | 1457.8 | 1478.4 | 1481.2 | 1486.7 | 1485.3 | 1483.9 | 1489.4 | 1503.2 | 1505.9 | 1505.9 |
| 15°    | 1395.8 | 1442.6 | 1461.9 | 1464.6 | 1474.3 | 1471.5 | 1471.5 | 1477.0 | 1492.2 | 1496.3 | 1494.9 |
| 17.5°  | 1365.5 | 1423.3 | 1445.4 | 1449.5 | 1456.4 | 1455.0 | 1456.4 | 1461.9 | 1475.7 | 1478.4 | 1479.8 |
| 20°    | 1331.1 | 1397.2 | 1423.3 | 1427.5 | 1434.4 | 1434.4 | 1434.4 | 1441.2 | 1455.0 | 1460.5 | 1460.5 |
| 22.5°  | 1284.3 | 1369.7 | 1397.2 | 1399.9 | 1408.2 | 1408.2 | 1411.0 | 1420.6 | 1433.0 | 1434.4 | 1434.4 |
| 25°    | 1229.3 | 1339.4 | 1362.8 | 1371.0 | 1379.3 | 1383.4 | 1387.6 | 1393.1 | 1397.2 | 1395.8 | 1397.2 |
| 27.5°  | 1171.4 | 1300.8 | 1331.1 | 1336.6 | 1347.6 | 1351.8 | 1357.3 | 1358.6 | 1360.0 | 1364.2 | 1361.4 |
| 30°    | 1106.7 | 1247.1 | 1292.6 | 1298.1 | 1316.0 | 1318.7 | 1313.2 | 1316.0 | 1322.9 | 1325.6 | 1328.4 |
| 32.5°  | 1033.8 | 1167.3 | 1252.7 | 1265.0 | 1281.6 | 1273.3 | 1271.9 | 1276.1 | 1287.1 | 1287.1 | 1289.8 |
| 35°    | 934.7  | 1105.4 | 1215.5 | 1226.5 | 1238.9 | 1229.3 | 1234.8 | 1236.1 | 1243.0 | 1247.1 | 1245.8 |
| 37.5°  | 825.9  | 1051.7 | 1176.9 | 1185.2 | 1194.8 | 1182.5 | 1190.7 | 1194.8 | 1200.3 | 1197.6 | 1197.6 |
| 40°    | 729.6  | 967.7  | 1131.5 | 1137.0 | 1145.3 | 1135.6 | 1143.9 | 1146.7 | 1149.4 | 1146.7 | 1145.3 |
| 42.5°  | 658.0  | 875.5  | 1083.3 | 1090.2 | 1084.7 | 1091.6 | 1094.4 | 1099.9 | 1095.7 | 1090.2 | 1090.2 |
| 45°    | 602.9  | 850.7  | 1031.0 | 1039.3 | 1031.0 | 1042.0 | 1046.2 | 1046.2 | 1033.8 | 1031.0 | 1029.7 |
| 47.5°  | 585.0  | 801.1  | 978.7  | 978.7  | 974.6  | 988.4  | 995.2  | 985.6  | 973.2  | 969.1  | 969.1  |
| 50°    | 583.7  | 746.1  | 907.1  | 901.6  | 920.9  | 937.4  | 930.5  | 920.9  | 911.3  | 896.1  | 896.1  |
| 52.5°  | 530.0  | 678.6  | 814.9  | 835.6  | 865.8  | 875.5  | 864.5  | 854.8  | 838.3  | 831.4  | 825.9  |
| 55°    | 491.4  | 608.4  | 730.9  | 772.2  | 803.9  | 816.3  | 795.6  | 786.0  | 761.2  | 757.1  | 754.3  |
| 57.5°  | 483.2  | 506.6  | 653.9  | 706.2  | 744.7  | 743.3  | 730.9  | 713.0  | 692.4  | 688.3  | 686.9  |
| 60°    | 443.2  | 366.2  | 571.3  | 633.2  | 673.1  | 669.0  | 658.0  | 641.5  | 622.2  | 619.4  | 616.7  |
| 62.5°  | 402.0  | 265.7  | 477.7  | 547.9  | 604.3  | 602.9  | 593.3  | 568.5  | 554.7  | 547.9  | 542.4  |
| 65°    | 341.4  | 223.0  | 340.0  | 455.6  | 536.9  | 539.6  | 519.0  | 501.1  | 485.9  | 477.7  | 476.3  |
| 67.5°  | 260.2  | 181.7  | 229.9  | 379.9  | 472.2  | 469.4  | 443.2  | 435.0  | 415.7  | 411.6  | 403.3  |
| 70°    | 192.7  | 121.1  | 159.7  | 308.3  | 408.8  | 402.0  | 381.3  | 371.7  | 353.8  | 344.1  | 338.6  |
| 72.5°  | 159.7  | 97.7   | 117.0  | 239.5  | 344.1  | 335.9  | 318.0  | 307.0  | 291.8  | 283.6  | 278.1  |
| 75°    | 129.4  | 103.2  | 89.5   | 177.6  | 279.4  | 273.9  | 257.4  | 246.4  | 234.0  | 223.0  | 224.4  |
| 77.5°  | 95.0   | 96.4   | 71.6   | 130.8  | 221.6  | 213.4  | 203.7  | 190.0  | 184.5  | 173.4  | 173.4  |
| 80°    | 71.6   | 75.7   | 53.7   | 89.5   | 159.7  | 159.7  | 151.4  | 141.8  | 132.1  | 126.6  | 126.6  |
| 82.5°  | 48.2   | 48.2   | 39.9   | 56.4   | 108.7  | 104.6  | 99.1   | 96.4   | 90.9   | 88.1   | 88.1   |
| 85°    | 22.0   | 27.5   | 24.8   | 34.4   | 59.2   | 61.9   | 61.9   | 59.2   | 57.8   | 55.1   | 56.4   |
| 87.5°  | 6.9    | 12.4   | 15.1   | 19.3   | 30.3   | 31.7   | 33.0   | 33.0   | 33.0   | 34.4   | 34.4   |
| 90°    | 2.8    | 5.1    | 7.4    | 8.0    | 12.5   | 18.5   | 21.6   | 19.2   | 14.3   | 10.7   | 10.7   |
| 92.5°  | 11.4   | 30.7   | 49.9   | 54.8   | 77.0   | 106.6  | 121.4  | 106.4  | 76.4   | 53.9   | 51.8   |
| 95°    | 27.3   | 62.5   | 97.8   | 106.6  | 189.4  | 299.8  | 355.0  | 316.8  | 240.3  | 183.0  | 176.5  |
| 97.5°  | 47.1   | 78.3   | 109.4  | 117.2  | 255.2  | 439.2  | 531.2  | 507.0  | 458.7  | 422.4  | 410.0  |
| 100°   | 62.4   | 90.7   | 118.9  | 126.0  | 279.1  | 483.3  | 585.3  | 587.0  | 590.6  | 593.3  | 578.6  |
| 102.5° | 75.4   | 101.9  | 128.2  | 134.8  | 290.1  | 497.1  | 600.6  | 631.4  | 693.0  | 739.1  | 726.5  |
| 105°   | 97.6   | 119.9  | 142.2  | 147.8  | 298.2  | 498.7  | 598.9  | 667.9  | 805.8  | 909.3  | 902.6  |
| 107.5° | 120.3  | 141.1  | 161.9  | 167.1  | 299.7  | 476.5  | 564.8  | 661.0  | 853.5  | 997.8  | 999.5  |
| 110°   | 135.6  | 154.4  | 173.2  | 177.8  | 297.4  | 456.8  | 536.5  | 644.0  | 859.2  | 1020.6 | 1027.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 150.7 | 168.6 | 186.5 | 191.0 | 297.5 | 439.7 | 510.7 | 620.8 | 841.0 | 1006.1 | 1016.9 |
| 115°   | 173.4 | 189.9 | 206.4 | 210.5 | 300.3 | 419.9 | 479.8 | 585.9 | 797.9 | 957.0  | 972.0  |
| 117.5° | 195.7 | 210.8 | 225.8 | 229.5 | 305.9 | 407.6 | 458.5 | 554.2 | 745.6 | 889.2  | 905.9  |
| 120°   | 208.8 | 222.9 | 237.0 | 240.6 | 310.4 | 403.4 | 449.9 | 537.4 | 712.3 | 843.5  | 859.7  |
| 122.5° | 221.6 | 235.8 | 250.1 | 253.7 | 316.9 | 401.2 | 443.4 | 522.2 | 679.7 | 797.8  | 813.8  |
| 125°   | 241.2 | 254.1 | 267.1 | 270.4 | 325.7 | 399.5 | 436.4 | 503.3 | 637.1 | 737.4  | 752.1  |
| 127.5° | 257.0 | 270.2 | 283.3 | 286.6 | 334.5 | 398.5 | 430.4 | 487.8 | 602.7 | 688.8  | 701.2  |
| 130°   | 265.6 | 279.7 | 293.8 | 297.3 | 340.9 | 399.0 | 428.1 | 479.2 | 581.5 | 658.3  | 669.7  |
| 132.5° | 274.4 | 288.5 | 302.7 | 306.1 | 346.2 | 399.5 | 426.2 | 472.0 | 563.5 | 632.1  | 642.4  |
| 135°   | 287.4 | 300.3 | 313.1 | 316.3 | 351.8 | 399.1 | 422.8 | 461.1 | 537.8 | 595.2  | 604.1  |
| 137.5° | 300.7 | 313.5 | 326.1 | 329.4 | 360.3 | 401.5 | 422.1 | 454.5 | 519.3 | 568.0  | 575.2  |
| 140°   | 311.8 | 323.6 | 335.2 | 338.2 | 365.5 | 402.0 | 420.2 | 448.2 | 504.2 | 546.1  | 552.9  |
| 142.5° | 320.3 | 331.1 | 341.9 | 344.7 | 369.8 | 403.4 | 420.2 | 444.8 | 493.9 | 530.8  | 536.7  |
| 145°   | 333.4 | 342.9 | 352.3 | 354.7 | 375.6 | 403.4 | 417.4 | 437.5 | 477.7 | 507.9  | 512.3  |
| 147.5° | 346.4 | 355.6 | 364.9 | 367.2 | 383.9 | 406.2 | 417.4 | 433.2 | 464.8 | 488.6  | 492.3  |
| 150°   | 355.0 | 363.3 | 371.6 | 373.7 | 388.3 | 407.6 | 417.4 | 430.8 | 457.5 | 477.5  | 480.4  |
| 152.5° | 363.7 | 370.0 | 376.3 | 377.9 | 391.0 | 408.6 | 417.4 | 428.7 | 451.6 | 468.7  | 470.9  |
| 155°   | 376.8 | 381.5 | 386.1 | 387.3 | 397.3 | 410.7 | 417.4 | 426.5 | 444.6 | 458.2  | 459.7  |
| 157.5° | 386.4 | 390.9 | 395.5 | 396.6 | 403.5 | 412.8 | 417.4 | 424.4 | 438.6 | 449.1  | 450.1  |
| 160°   | 393.0 | 396.4 | 399.9 | 400.8 | 406.4 | 413.7 | 417.4 | 423.4 | 435.5 | 444.6  | 445.2  |
| 162.5° | 399.5 | 402.1 | 404.8 | 405.4 | 409.4 | 414.7 | 417.4 | 422.5 | 432.7 | 440.3  | 440.9  |
| 165°   | 406.5 | 408.9 | 411.3 | 412.0 | 413.8 | 416.2 | 417.4 | 421.0 | 428.3 | 433.8  | 434.4  |
| 167.5° | 413.1 | 414.2 | 415.3 | 415.6 | 417.2 | 419.2 | 420.2 | 422.6 | 427.4 | 430.9  | 431.2  |
| 170°   | 417.4 | 418.5 | 419.7 | 419.9 | 420.0 | 420.1 | 420.2 | 422.6 | 427.4 | 430.9  | 430.9  |
| 172.5° | 419.7 | 419.9 | 420.1 | 420.2 | 420.2 | 420.2 | 420.2 | 422.0 | 425.8 | 428.7  | 428.5  |
| 175°   | 422.8 | 422.8 | 422.8 | 422.8 | 422.0 | 420.8 | 420.2 | 421.4 | 423.8 | 425.5  | 425.5  |
| 177.5° | 422.8 | 422.8 | 422.8 | 422.8 | 422.1 | 421.2 | 420.8 | 421.7 | 423.6 | 425.0  | 424.7  |
| 180°   | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8  | 422.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 |
| 2.5°   | 1492.2 | 1488.0 | 1492.2 | 1489.4 | 1490.8 | 1486.7 | 1474.3 | 1470.1 | 1474.3 | 1478.4 | 1478.4 |
| 5°     | 1510.1 | 1507.3 | 1510.1 | 1510.1 | 1508.7 | 1505.9 | 1492.2 | 1489.4 | 1492.2 | 1493.5 | 1490.8 |
| 7.5°   | 1515.6 | 1511.4 | 1515.6 | 1512.8 | 1512.8 | 1510.1 | 1496.3 | 1493.5 | 1494.9 | 1499.1 | 1494.9 |
| 10°    | 1515.6 | 1511.4 | 1515.6 | 1514.2 | 1512.8 | 1510.1 | 1496.3 | 1490.8 | 1490.8 | 1494.9 | 1490.8 |
| 12.5°  | 1508.7 | 1505.9 | 1508.7 | 1505.9 | 1505.9 | 1503.2 | 1489.4 | 1483.9 | 1485.3 | 1486.7 | 1481.2 |
| 15°    | 1497.7 | 1493.5 | 1497.7 | 1494.9 | 1496.3 | 1492.2 | 1477.0 | 1471.5 | 1471.5 | 1474.3 | 1464.6 |
| 17.5°  | 1481.2 | 1475.7 | 1481.2 | 1479.8 | 1478.4 | 1475.7 | 1461.9 | 1456.4 | 1455.0 | 1456.4 | 1449.5 |
| 20°    | 1461.9 | 1457.8 | 1461.9 | 1460.5 | 1460.5 | 1455.0 | 1441.2 | 1434.4 | 1434.4 | 1434.4 | 1427.5 |
| 22.5°  | 1431.6 | 1427.5 | 1431.6 | 1434.4 | 1434.4 | 1433.0 | 1420.6 | 1411.0 | 1408.2 | 1408.2 | 1399.9 |
| 25°    | 1397.2 | 1393.1 | 1397.2 | 1397.2 | 1395.8 | 1397.2 | 1393.1 | 1387.6 | 1383.4 | 1379.3 | 1371.0 |
| 27.5°  | 1364.2 | 1361.4 | 1364.2 | 1361.4 | 1364.2 | 1360.0 | 1358.6 | 1357.3 | 1351.8 | 1347.6 | 1336.6 |
| 30°    | 1331.1 | 1328.4 | 1331.1 | 1328.4 | 1325.6 | 1322.9 | 1316.0 | 1313.2 | 1318.7 | 1316.0 | 1298.1 |
| 32.5°  | 1289.8 | 1287.1 | 1289.8 | 1289.8 | 1287.1 | 1287.1 | 1276.1 | 1271.9 | 1273.3 | 1281.6 | 1265.0 |
| 35°    | 1247.1 | 1243.0 | 1247.1 | 1245.8 | 1247.1 | 1243.0 | 1236.1 | 1234.8 | 1229.3 | 1238.9 | 1226.5 |
| 37.5°  | 1197.6 | 1193.5 | 1197.6 | 1197.6 | 1197.6 | 1200.3 | 1194.8 | 1190.7 | 1182.5 | 1194.8 | 1185.2 |
| 40°    | 1146.7 | 1141.2 | 1146.7 | 1145.3 | 1146.7 | 1149.4 | 1146.7 | 1143.9 | 1135.6 | 1145.3 | 1137.0 |
| 42.5°  | 1088.8 | 1087.5 | 1088.8 | 1090.2 | 1090.2 | 1095.7 | 1099.9 | 1094.4 | 1091.6 | 1084.7 | 1090.2 |
| 45°    | 1026.9 | 1024.1 | 1026.9 | 1029.7 | 1031.0 | 1033.8 | 1046.2 | 1046.2 | 1042.0 | 1031.0 | 1039.3 |
| 47.5°  | 960.8  | 953.9  | 960.8  | 969.1  | 969.1  | 973.2  | 985.6  | 995.2  | 988.4  | 974.6  | 978.7  |
| 50°    | 890.6  | 892.0  | 890.6  | 896.1  | 896.1  | 911.3  | 920.9  | 930.5  | 937.4  | 920.9  | 901.6  |
| 52.5°  | 821.8  | 820.4  | 821.8  | 825.9  | 831.4  | 838.3  | 854.8  | 864.5  | 875.5  | 865.8  | 835.6  |
| 55°    | 753.0  | 755.7  | 753.0  | 754.3  | 757.1  | 761.2  | 786.0  | 795.6  | 816.3  | 803.9  | 772.2  |
| 57.5°  | 684.1  | 680.0  | 684.1  | 686.9  | 688.3  | 692.4  | 713.0  | 730.9  | 743.3  | 744.7  | 706.2  |
| 60°    | 604.3  | 598.8  | 604.3  | 616.7  | 619.4  | 622.2  | 641.5  | 658.0  | 669.0  | 673.1  | 633.2  |
| 62.5°  | 534.1  | 524.5  | 534.1  | 542.4  | 547.9  | 554.7  | 568.5  | 593.3  | 602.9  | 604.3  | 547.9  |
| 65°    | 459.8  | 455.6  | 459.8  | 476.3  | 477.7  | 485.9  | 501.1  | 519.0  | 539.6  | 536.9  | 455.6  |
| 67.5°  | 392.3  | 392.3  | 392.3  | 403.3  | 411.6  | 415.7  | 435.0  | 443.2  | 469.4  | 472.2  | 379.9  |
| 70°    | 330.4  | 329.0  | 330.4  | 338.6  | 344.1  | 353.8  | 371.7  | 381.3  | 402.0  | 408.8  | 308.3  |
| 72.5°  | 271.2  | 269.8  | 271.2  | 278.1  | 283.6  | 291.8  | 307.0  | 318.0  | 335.9  | 344.1  | 239.5  |
| 75°    | 218.9  | 216.1  | 218.9  | 224.4  | 223.0  | 234.0  | 246.4  | 257.4  | 273.9  | 279.4  | 177.6  |
| 77.5°  | 167.9  | 167.9  | 167.9  | 173.4  | 173.4  | 184.5  | 190.0  | 203.7  | 213.4  | 221.6  | 130.8  |
| 80°    | 125.3  | 123.9  | 125.3  | 126.6  | 126.6  | 132.1  | 141.8  | 151.4  | 159.7  | 159.7  | 89.5   |
| 82.5°  | 88.1   | 85.3   | 88.1   | 88.1   | 88.1   | 90.9   | 96.4   | 99.1   | 104.6  | 108.7  | 56.4   |
| 85°    | 55.1   | 55.1   | 55.1   | 56.4   | 55.1   | 57.8   | 59.2   | 61.9   | 61.9   | 59.2   | 34.4   |
| 87.5°  | 35.8   | 34.4   | 35.8   | 34.4   | 34.4   | 33.0   | 33.0   | 33.0   | 31.7   | 30.3   | 19.3   |
| 90°    | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 14.3   | 19.2   | 21.6   | 18.5   | 12.5   | 8.0    |
| 92.5°  | 43.1   | 34.6   | 43.1   | 51.8   | 53.9   | 76.4   | 106.4  | 121.4  | 106.6  | 77.0   | 54.8   |
| 95°    | 150.5  | 124.5  | 150.5  | 176.5  | 183.0  | 240.3  | 316.8  | 355.0  | 299.8  | 189.4  | 106.6  |
| 97.5°  | 360.7  | 311.3  | 360.7  | 410.0  | 422.4  | 458.7  | 507.0  | 531.2  | 439.2  | 255.2  | 117.2  |
| 100°   | 519.7  | 460.8  | 519.7  | 578.6  | 593.3  | 590.6  | 587.0  | 585.3  | 483.3  | 279.1  | 126.0  |
| 102.5° | 676.1  | 625.6  | 676.1  | 726.5  | 739.1  | 693.0  | 631.4  | 600.6  | 497.1  | 290.1  | 134.8  |
| 105°   | 875.5  | 848.3  | 875.5  | 902.6  | 909.3  | 805.8  | 667.9  | 598.9  | 498.7  | 298.2  | 147.8  |
| 107.5° | 1006.0 | 1012.6 | 1006.0 | 999.5  | 997.8  | 853.5  | 661.0  | 564.8  | 476.5  | 299.7  | 167.1  |
| 110°   | 1055.8 | 1084.1 | 1055.8 | 1027.6 | 1020.6 | 859.2  | 644.0  | 536.5  | 456.8  | 297.4  | 177.8  |





TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1060.3 | 1103.6 | 1060.3 | 1016.9 | 1006.1 | 841.0 | 620.8 | 510.7 | 439.7 | 297.5 | 191.0  |
| 115°   | 1032.1 | 1092.3 | 1032.1 | 972.0  | 957.0  | 797.9 | 585.9 | 479.8 | 419.9 | 300.3 | 210.5  |
| 117.5° | 972.6  | 1039.3 | 972.6  | 905.9  | 889.2  | 745.6 | 554.2 | 458.5 | 407.6 | 305.9 | 229.5  |
| 120°   | 924.5  | 989.4  | 924.5  | 859.7  | 843.5  | 712.3 | 537.4 | 449.9 | 403.4 | 310.4 | 240.6  |
| 122.5° | 877.8  | 941.6  | 877.8  | 813.8  | 797.8  | 679.7 | 522.2 | 443.4 | 401.2 | 316.9 | 253.7  |
| 125°   | 811.0  | 869.9  | 811.0  | 752.1  | 737.4  | 637.1 | 503.3 | 436.4 | 399.5 | 325.7 | 270.4  |
| 127.5° | 750.9  | 800.7  | 750.9  | 701.2  | 688.8  | 602.7 | 487.8 | 430.4 | 398.5 | 334.5 | 286.6  |
| 130°   | 715.6  | 761.5  | 715.6  | 669.7  | 658.3  | 581.5 | 479.2 | 428.1 | 399.0 | 340.9 | 297.3  |
| 132.5° | 683.5  | 724.6  | 683.5  | 642.4  | 632.1  | 563.5 | 472.0 | 426.2 | 399.5 | 346.2 | 306.1  |
| 135°   | 639.5  | 675.0  | 639.5  | 604.1  | 595.2  | 537.8 | 461.1 | 422.8 | 399.1 | 351.8 | 316.3  |
| 137.5° | 604.3  | 633.3  | 604.3  | 575.2  | 568.0  | 519.3 | 454.5 | 422.1 | 401.5 | 360.3 | 329.4  |
| 140°   | 580.0  | 607.1  | 580.0  | 552.9  | 546.1  | 504.2 | 448.2 | 420.2 | 402.0 | 365.5 | 338.2  |
| 142.5° | 560.0  | 583.3  | 560.0  | 536.7  | 530.8  | 493.9 | 444.8 | 420.2 | 403.4 | 369.8 | 344.7  |
| 145°   | 530.0  | 547.6  | 530.0  | 512.3  | 507.9  | 477.7 | 437.5 | 417.4 | 403.4 | 375.6 | 354.7  |
| 147.5° | 506.8  | 521.4  | 506.8  | 492.3  | 488.6  | 464.8 | 433.2 | 417.4 | 406.2 | 383.9 | 367.2  |
| 150°   | 492.3  | 504.2  | 492.3  | 480.4  | 477.5  | 457.5 | 430.8 | 417.4 | 407.6 | 388.3 | 373.7  |
| 152.5° | 479.9  | 488.9  | 479.9  | 470.9  | 468.7  | 451.6 | 428.7 | 417.4 | 408.6 | 391.0 | 377.9  |
| 155°   | 465.6  | 471.5  | 465.6  | 459.7  | 458.2  | 444.6 | 426.5 | 417.4 | 410.7 | 397.3 | 387.3  |
| 157.5° | 454.4  | 458.5  | 454.4  | 450.1  | 449.1  | 438.6 | 424.4 | 417.4 | 412.8 | 403.5 | 396.6  |
| 160°   | 447.6  | 449.9  | 447.6  | 445.2  | 444.6  | 435.5 | 423.4 | 417.4 | 413.7 | 406.4 | 400.8  |
| 162.5° | 443.2  | 445.4  | 443.2  | 440.9  | 440.3  | 432.7 | 422.5 | 417.4 | 414.7 | 409.4 | 405.4  |
| 165°   | 436.8  | 439.2  | 436.8  | 434.4  | 433.8  | 428.3 | 421.0 | 417.4 | 416.2 | 413.8 | 412.0  |
| 167.5° | 432.2  | 433.2  | 432.2  | 431.2  | 430.9  | 427.4 | 422.6 | 420.2 | 419.2 | 417.2 | 415.6  |
| 170°   | 430.9  | 430.9  | 430.9  | 430.9  | 430.9  | 427.4 | 422.6 | 420.2 | 420.1 | 420.0 | 419.9  |
| 172.5° | 427.6  | 426.7  | 427.6  | 428.5  | 428.7  | 425.8 | 422.0 | 420.2 | 420.2 | 420.2 | 420.2  |
| 175°   | 425.5  | 425.5  | 425.5  | 425.5  | 425.5  | 423.8 | 421.4 | 420.2 | 420.8 | 422.0 | 422.8  |
| 177.5° | 423.8  | 422.8  | 423.8  | 424.7  | 425.0  | 423.6 | 421.7 | 420.8 | 421.2 | 422.1 | 422.8  |
| 180°   | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8  |



TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 |
| 2.5°   | 1475.7 | 1467.4 | 1467.4 | 1453.6 | 1448.1 | 1444.0 | 1437.1 | 1416.5 | 1411.0 | 1405.4 | 1413.7 |
| 5°     | 1488.0 | 1472.9 | 1461.9 | 1437.1 | 1416.5 | 1408.2 | 1382.0 | 1332.5 | 1299.5 | 1274.7 | 1260.9 |
| 7.5°   | 1490.8 | 1471.5 | 1450.9 | 1412.3 | 1362.8 | 1340.8 | 1260.9 | 1170.1 | 1145.3 | 1123.3 | 1109.5 |
| 10°    | 1488.0 | 1466.0 | 1437.1 | 1379.3 | 1262.3 | 1223.7 | 1143.9 | 1084.7 | 1069.6 | 1065.4 | 1069.6 |
| 12.5°  | 1478.4 | 1457.8 | 1417.8 | 1321.5 | 1157.7 | 1131.5 | 1084.7 | 1050.3 | 1047.5 | 1054.4 | 1091.6 |
| 15°    | 1461.9 | 1442.6 | 1395.8 | 1244.4 | 1099.9 | 1080.6 | 1047.5 | 1035.2 | 1050.3 | 1098.5 | 1210.0 |
| 17.5°  | 1445.4 | 1423.3 | 1365.5 | 1168.7 | 1055.8 | 1042.0 | 1018.6 | 1043.4 | 1128.8 | 1193.5 | 1230.6 |
| 20°    | 1423.3 | 1397.2 | 1331.1 | 1113.6 | 1024.1 | 1011.8 | 1000.7 | 1112.2 | 1176.9 | 1200.3 | 1221.0 |
| 22.5°  | 1397.2 | 1369.7 | 1284.3 | 1075.1 | 991.1  | 981.5  | 988.4  | 1150.8 | 1176.9 | 1193.5 | 1211.4 |
| 25°    | 1362.8 | 1339.4 | 1229.3 | 1044.8 | 965.0  | 953.9  | 980.1  | 1146.7 | 1161.8 | 1165.9 | 1201.7 |
| 27.5°  | 1331.1 | 1300.8 | 1171.4 | 1017.3 | 933.3  | 929.2  | 987.0  | 1128.8 | 1139.8 | 1143.9 | 1182.5 |
| 30°    | 1292.6 | 1247.1 | 1106.7 | 988.4  | 900.3  | 898.9  | 988.4  | 1106.7 | 1104.0 | 1115.0 | 1153.5 |
| 32.5°  | 1252.7 | 1167.3 | 1033.8 | 952.6  | 868.6  | 867.2  | 978.7  | 1073.7 | 1071.0 | 1086.1 | 1115.0 |
| 35°    | 1215.5 | 1105.4 | 934.7  | 911.3  | 828.7  | 830.1  | 955.3  | 1035.2 | 1036.5 | 1050.3 | 1068.2 |
| 37.5°  | 1176.9 | 1051.7 | 825.9  | 865.8  | 790.1  | 790.1  | 923.7  | 999.4  | 996.6  | 1000.7 | 1025.5 |
| 40°    | 1131.5 | 967.7  | 729.6  | 806.7  | 754.3  | 750.2  | 885.1  | 960.8  | 951.2  | 949.8  | 984.2  |
| 42.5°  | 1083.3 | 875.5  | 658.0  | 728.2  | 713.0  | 707.5  | 838.3  | 914.0  | 896.1  | 900.3  | 944.3  |
| 45°    | 1031.0 | 850.7  | 602.9  | 615.3  | 670.4  | 666.2  | 787.4  | 860.3  | 848.0  | 859.0  | 904.4  |
| 47.5°  | 978.7  | 801.1  | 585.0  | 510.7  | 625.0  | 623.6  | 730.9  | 808.0  | 801.1  | 812.2  | 860.3  |
| 50°    | 907.1  | 746.1  | 583.7  | 437.7  | 574.0  | 579.5  | 663.5  | 757.1  | 757.1  | 766.7  | 817.7  |
| 52.5°  | 814.9  | 678.6  | 530.0  | 396.4  | 514.8  | 531.3  | 604.3  | 713.0  | 715.8  | 725.4  | 770.9  |
| 55°    | 730.9  | 608.4  | 491.4  | 364.8  | 444.6  | 480.4  | 546.5  | 667.6  | 673.1  | 682.8  | 724.1  |
| 57.5°  | 653.9  | 506.6  | 483.2  | 327.6  | 379.9  | 414.3  | 495.6  | 623.6  | 626.3  | 634.6  | 674.5  |
| 60°    | 571.3  | 366.2  | 443.2  | 287.7  | 323.5  | 349.6  | 448.8  | 571.3  | 580.9  | 586.4  | 620.8  |
| 62.5°  | 477.7  | 265.7  | 402.0  | 260.2  | 296.0  | 301.5  | 410.2  | 521.7  | 534.1  | 538.2  | 558.9  |
| 65°    | 340.0  | 223.0  | 341.4  | 236.8  | 267.0  | 268.4  | 368.9  | 470.8  | 481.8  | 488.7  | 503.8  |
| 67.5°  | 229.9  | 181.7  | 260.2  | 214.7  | 245.0  | 246.4  | 329.0  | 411.6  | 426.7  | 432.2  | 441.9  |
| 70°    | 159.7  | 121.1  | 192.7  | 191.3  | 220.2  | 223.0  | 286.3  | 357.9  | 371.7  | 375.8  | 381.3  |
| 72.5°  | 117.0  | 97.7   | 159.7  | 172.1  | 194.1  | 196.8  | 242.3  | 297.3  | 311.1  | 315.2  | 318.0  |
| 75°    | 89.5   | 103.2  | 129.4  | 150.0  | 165.2  | 166.6  | 198.2  | 242.3  | 251.9  | 254.7  | 256.0  |
| 77.5°  | 71.6   | 96.4   | 95.0   | 121.1  | 134.9  | 132.1  | 155.5  | 187.2  | 195.5  | 195.5  | 195.5  |
| 80°    | 53.7   | 75.7   | 71.6   | 86.7   | 99.1   | 96.4   | 111.5  | 133.5  | 136.3  | 139.0  | 137.7  |
| 82.5°  | 39.9   | 48.2   | 48.2   | 55.1   | 66.1   | 63.3   | 74.3   | 86.7   | 86.7   | 86.7   | 89.5   |
| 85°    | 24.8   | 27.5   | 22.0   | 28.9   | 37.2   | 35.8   | 41.3   | 46.8   | 48.2   | 48.2   | 45.4   |
| 87.5°  | 15.1   | 12.4   | 6.9    | 11.0   | 16.5   | 16.5   | 19.3   | 20.6   | 19.3   | 19.3   | 19.3   |
| 90°    | 7.4    | 5.1    | 2.8    | 5.1    | 7.4    | 8.0    | 12.5   | 18.5   | 21.6   | 19.2   | 14.3   |
| 92.5°  | 49.9   | 30.7   | 11.4   | 30.7   | 49.9   | 54.8   | 77.0   | 106.6  | 121.4  | 106.4  | 76.4   |
| 95°    | 97.8   | 62.5   | 27.3   | 62.5   | 97.8   | 106.6  | 189.4  | 299.8  | 355.0  | 316.8  | 240.3  |
| 97.5°  | 109.4  | 78.3   | 47.1   | 78.3   | 109.4  | 117.2  | 255.2  | 439.2  | 531.2  | 507.0  | 458.7  |
| 100°   | 118.9  | 90.7   | 62.4   | 90.7   | 118.9  | 126.0  | 279.1  | 483.3  | 585.3  | 587.0  | 590.6  |
| 102.5° | 128.2  | 101.9  | 75.4   | 101.9  | 128.2  | 134.8  | 290.1  | 497.1  | 600.6  | 631.4  | 693.0  |
| 105°   | 142.2  | 119.9  | 97.6   | 119.9  | 142.2  | 147.8  | 298.2  | 498.7  | 598.9  | 667.9  | 805.8  |
| 107.5° | 161.9  | 141.1  | 120.3  | 141.1  | 161.9  | 167.1  | 299.7  | 476.5  | 564.8  | 661.0  | 853.5  |
| 110°   | 173.2  | 154.4  | 135.6  | 154.4  | 173.2  | 177.8  | 297.4  | 456.8  | 536.5  | 644.0  | 859.2  |



TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 186.5 | 168.6 | 150.7 | 168.6 | 186.5 | 191.0  | 297.5 | 439.7 | 510.7 | 620.8 | 841.0 |
| 115°   | 206.4 | 189.9 | 173.4 | 189.9 | 206.4 | 210.5  | 300.3 | 419.9 | 479.8 | 585.9 | 797.9 |
| 117.5° | 225.8 | 210.8 | 195.7 | 210.8 | 225.8 | 229.5  | 305.9 | 407.6 | 458.5 | 554.2 | 745.6 |
| 120°   | 237.0 | 222.9 | 208.8 | 222.9 | 237.0 | 240.6  | 310.4 | 403.4 | 449.9 | 537.4 | 712.3 |
| 122.5° | 250.1 | 235.8 | 221.6 | 235.8 | 250.1 | 253.7  | 316.9 | 401.2 | 443.4 | 522.2 | 679.7 |
| 125°   | 267.1 | 254.1 | 241.2 | 254.1 | 267.1 | 270.4  | 325.7 | 399.5 | 436.4 | 503.3 | 637.1 |
| 127.5° | 283.3 | 270.2 | 257.0 | 270.2 | 283.3 | 286.6  | 334.5 | 398.5 | 430.4 | 487.8 | 602.7 |
| 130°   | 293.8 | 279.7 | 265.6 | 279.7 | 293.8 | 297.3  | 340.9 | 399.0 | 428.1 | 479.2 | 581.5 |
| 132.5° | 302.7 | 288.5 | 274.4 | 288.5 | 302.7 | 306.1  | 346.2 | 399.5 | 426.2 | 472.0 | 563.5 |
| 135°   | 313.1 | 300.3 | 287.4 | 300.3 | 313.1 | 316.3  | 351.8 | 399.1 | 422.8 | 461.1 | 537.8 |
| 137.5° | 326.1 | 313.5 | 300.7 | 313.5 | 326.1 | 329.4  | 360.3 | 401.5 | 422.1 | 454.5 | 519.3 |
| 140°   | 335.2 | 323.6 | 311.8 | 323.6 | 335.2 | 338.2  | 365.5 | 402.0 | 420.2 | 448.2 | 504.2 |
| 142.5° | 341.9 | 331.1 | 320.3 | 331.1 | 341.9 | 344.7  | 369.8 | 403.4 | 420.2 | 444.8 | 493.9 |
| 145°   | 352.3 | 342.9 | 333.4 | 342.9 | 352.3 | 354.7  | 375.6 | 403.4 | 417.4 | 437.5 | 477.7 |
| 147.5° | 364.9 | 355.6 | 346.4 | 355.6 | 364.9 | 367.2  | 383.9 | 406.2 | 417.4 | 433.2 | 464.8 |
| 150°   | 371.6 | 363.3 | 355.0 | 363.3 | 371.6 | 373.7  | 388.3 | 407.6 | 417.4 | 430.8 | 457.5 |
| 152.5° | 376.3 | 370.0 | 363.7 | 370.0 | 376.3 | 377.9  | 391.0 | 408.6 | 417.4 | 428.7 | 451.6 |
| 155°   | 386.1 | 381.5 | 376.8 | 381.5 | 386.1 | 387.3  | 397.3 | 410.7 | 417.4 | 426.5 | 444.6 |
| 157.5° | 395.5 | 390.9 | 386.4 | 390.9 | 395.5 | 396.6  | 403.5 | 412.8 | 417.4 | 424.4 | 438.6 |
| 160°   | 399.9 | 396.4 | 393.0 | 396.4 | 399.9 | 400.8  | 406.4 | 413.7 | 417.4 | 423.4 | 435.5 |
| 162.5° | 404.8 | 402.1 | 399.5 | 402.1 | 404.8 | 405.4  | 409.4 | 414.7 | 417.4 | 422.5 | 432.7 |
| 165°   | 411.3 | 408.9 | 406.5 | 408.9 | 411.3 | 412.0  | 413.8 | 416.2 | 417.4 | 421.0 | 428.3 |
| 167.5° | 415.3 | 414.2 | 413.1 | 414.2 | 415.3 | 415.6  | 417.2 | 419.2 | 420.2 | 422.6 | 427.4 |
| 170°   | 419.7 | 418.5 | 417.4 | 418.5 | 419.7 | 419.9  | 420.0 | 420.1 | 420.2 | 422.6 | 427.4 |
| 172.5° | 420.1 | 419.9 | 419.7 | 419.9 | 420.1 | 420.2  | 420.2 | 420.2 | 420.2 | 422.0 | 425.8 |
| 175°   | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8  | 422.0 | 420.8 | 420.2 | 421.4 | 423.8 |
| 177.5° | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8  | 422.1 | 421.2 | 420.8 | 421.7 | 423.6 |
| 180°   | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8  | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 |



TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 |
| 2.5°   | 1404.1 | 1399.9 | 1405.4 | 1390.3 | 1405.4 | 1399.9 | 1404.1 | 1413.7 | 1405.4 | 1411.0 | 1416.5 |
| 5°     | 1232.0 | 1225.1 | 1203.1 | 1185.2 | 1203.1 | 1225.1 | 1232.0 | 1260.9 | 1274.7 | 1299.5 | 1332.5 |
| 7.5°   | 1101.2 | 1095.7 | 1090.2 | 1079.2 | 1090.2 | 1095.7 | 1101.2 | 1109.5 | 1123.3 | 1145.3 | 1170.1 |
| 10°    | 1072.3 | 1073.7 | 1082.0 | 1080.6 | 1082.0 | 1073.7 | 1072.3 | 1069.6 | 1065.4 | 1069.6 | 1084.7 |
| 12.5°  | 1146.7 | 1159.0 | 1204.5 | 1201.7 | 1204.5 | 1159.0 | 1146.7 | 1091.6 | 1054.4 | 1047.5 | 1050.3 |
| 15°    | 1232.0 | 1236.1 | 1245.8 | 1247.1 | 1245.8 | 1236.1 | 1232.0 | 1210.0 | 1098.5 | 1050.3 | 1035.2 |
| 17.5°  | 1240.3 | 1241.6 | 1248.5 | 1248.5 | 1248.5 | 1241.6 | 1240.3 | 1230.6 | 1193.5 | 1128.8 | 1043.4 |
| 20°    | 1233.4 | 1236.1 | 1249.9 | 1252.7 | 1249.9 | 1236.1 | 1233.4 | 1221.0 | 1200.3 | 1176.9 | 1112.2 |
| 22.5°  | 1230.6 | 1236.1 | 1247.1 | 1245.8 | 1247.1 | 1236.1 | 1230.6 | 1211.4 | 1193.5 | 1176.9 | 1150.8 |
| 25°    | 1216.9 | 1216.9 | 1218.2 | 1219.6 | 1218.2 | 1216.9 | 1216.9 | 1201.7 | 1165.9 | 1161.8 | 1146.7 |
| 27.5°  | 1188.0 | 1190.7 | 1199.0 | 1197.6 | 1199.0 | 1190.7 | 1188.0 | 1182.5 | 1143.9 | 1139.8 | 1128.8 |
| 30°    | 1161.8 | 1159.0 | 1152.2 | 1146.7 | 1152.2 | 1159.0 | 1161.8 | 1153.5 | 1115.0 | 1104.0 | 1106.7 |
| 32.5°  | 1117.8 | 1110.9 | 1104.0 | 1099.9 | 1104.0 | 1110.9 | 1117.8 | 1115.0 | 1086.1 | 1071.0 | 1073.7 |
| 35°    | 1065.4 | 1066.8 | 1065.4 | 1061.3 | 1065.4 | 1066.8 | 1065.4 | 1068.2 | 1050.3 | 1036.5 | 1035.2 |
| 37.5°  | 1028.3 | 1031.0 | 1029.7 | 1024.1 | 1029.7 | 1031.0 | 1028.3 | 1025.5 | 1000.7 | 996.6  | 999.4  |
| 40°    | 989.7  | 991.1  | 989.7  | 985.6  | 989.7  | 991.1  | 989.7  | 984.2  | 949.8  | 951.2  | 960.8  |
| 42.5°  | 952.6  | 951.2  | 947.1  | 944.3  | 947.1  | 951.2  | 952.6  | 944.3  | 900.3  | 896.1  | 914.0  |
| 45°    | 909.9  | 911.3  | 903.0  | 898.9  | 903.0  | 911.3  | 909.9  | 904.4  | 859.0  | 848.0  | 860.3  |
| 47.5°  | 867.2  | 867.2  | 860.3  | 856.2  | 860.3  | 867.2  | 867.2  | 860.3  | 812.2  | 801.1  | 808.0  |
| 50°    | 821.8  | 820.4  | 810.8  | 809.4  | 810.8  | 820.4  | 821.8  | 817.7  | 766.7  | 757.1  | 757.1  |
| 52.5°  | 769.5  | 769.5  | 770.9  | 773.6  | 770.9  | 769.5  | 769.5  | 770.9  | 725.4  | 715.8  | 713.0  |
| 55°    | 724.1  | 725.4  | 735.1  | 737.8  | 735.1  | 725.4  | 724.1  | 724.1  | 682.8  | 673.1  | 667.6  |
| 57.5°  | 677.3  | 677.3  | 684.1  | 684.1  | 684.1  | 677.3  | 677.3  | 674.5  | 634.6  | 626.3  | 623.6  |
| 60°    | 623.6  | 626.3  | 631.8  | 630.5  | 631.8  | 626.3  | 623.6  | 620.8  | 586.4  | 580.9  | 571.3  |
| 62.5°  | 567.1  | 569.9  | 571.3  | 568.5  | 571.3  | 569.9  | 567.1  | 558.9  | 538.2  | 534.1  | 521.7  |
| 65°    | 507.9  | 510.7  | 512.1  | 509.3  | 512.1  | 510.7  | 507.9  | 503.8  | 488.7  | 481.8  | 470.8  |
| 67.5°  | 447.4  | 446.0  | 444.6  | 450.1  | 444.6  | 446.0  | 447.4  | 441.9  | 432.2  | 426.7  | 411.6  |
| 70°    | 385.4  | 385.4  | 384.1  | 386.8  | 384.1  | 385.4  | 385.4  | 381.3  | 375.8  | 371.7  | 357.9  |
| 72.5°  | 319.4  | 318.0  | 323.5  | 319.4  | 323.5  | 318.0  | 319.4  | 318.0  | 315.2  | 311.1  | 297.3  |
| 75°    | 254.7  | 257.4  | 254.7  | 258.8  | 254.7  | 257.4  | 254.7  | 256.0  | 254.7  | 251.9  | 242.3  |
| 77.5°  | 194.1  | 196.8  | 194.1  | 194.1  | 194.1  | 196.8  | 194.1  | 195.5  | 195.5  | 195.5  | 187.2  |
| 80°    | 137.7  | 136.3  | 136.3  | 134.9  | 136.3  | 136.3  | 137.7  | 137.7  | 139.0  | 136.3  | 133.5  |
| 82.5°  | 88.1   | 86.7   | 86.7   | 89.5   | 86.7   | 86.7   | 88.1   | 89.5   | 86.7   | 86.7   | 86.7   |
| 85°    | 48.2   | 49.6   | 46.8   | 46.8   | 46.8   | 49.6   | 48.2   | 45.4   | 48.2   | 48.2   | 46.8   |
| 87.5°  | 17.9   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 17.9   | 19.3   | 19.3   | 19.3   | 20.6   |
| 90°    | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 10.7   | 14.3   | 19.2   | 21.6   | 18.5   |
| 92.5°  | 53.9   | 51.8   | 43.1   | 34.6   | 43.1   | 51.8   | 53.9   | 76.4   | 106.4  | 121.4  | 106.6  |
| 95°    | 183.0  | 176.5  | 150.5  | 124.5  | 150.5  | 176.5  | 183.0  | 240.3  | 316.8  | 355.0  | 299.8  |
| 97.5°  | 422.4  | 410.0  | 360.7  | 311.3  | 360.7  | 410.0  | 422.4  | 458.7  | 507.0  | 531.2  | 439.2  |
| 100°   | 593.3  | 578.6  | 519.7  | 460.8  | 519.7  | 578.6  | 593.3  | 590.6  | 587.0  | 585.3  | 483.3  |
| 102.5° | 739.1  | 726.5  | 676.1  | 625.6  | 676.1  | 726.5  | 739.1  | 693.0  | 631.4  | 600.6  | 497.1  |
| 105°   | 909.3  | 902.6  | 875.5  | 848.3  | 875.5  | 902.6  | 909.3  | 805.8  | 667.9  | 598.9  | 498.7  |
| 107.5° | 997.8  | 999.5  | 1006.0 | 1012.6 | 1006.0 | 999.5  | 997.8  | 853.5  | 661.0  | 564.8  | 476.5  |
| 110°   | 1020.6 | 1027.6 | 1055.8 | 1084.1 | 1055.8 | 1027.6 | 1020.6 | 859.2  | 644.0  | 536.5  | 456.8  |



TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 1006.1 | 1016.9 | 1060.3 | 1103.6 | 1060.3 | 1016.9 | 1006.1 | 841.0 | 620.8 | 510.7 | 439.7 |
| 115°   | 957.0  | 972.0  | 1032.1 | 1092.3 | 1032.1 | 972.0  | 957.0  | 797.9 | 585.9 | 479.8 | 419.9 |
| 117.5° | 889.2  | 905.9  | 972.6  | 1039.3 | 972.6  | 905.9  | 889.2  | 745.6 | 554.2 | 458.5 | 407.6 |
| 120°   | 843.5  | 859.7  | 924.5  | 989.4  | 924.5  | 859.7  | 843.5  | 712.3 | 537.4 | 449.9 | 403.4 |
| 122.5° | 797.8  | 813.8  | 877.8  | 941.6  | 877.8  | 813.8  | 797.8  | 679.7 | 522.2 | 443.4 | 401.2 |
| 125°   | 737.4  | 752.1  | 811.0  | 869.9  | 811.0  | 752.1  | 737.4  | 637.1 | 503.3 | 436.4 | 399.5 |
| 127.5° | 688.8  | 701.2  | 750.9  | 800.7  | 750.9  | 701.2  | 688.8  | 602.7 | 487.8 | 430.4 | 398.5 |
| 130°   | 658.3  | 669.7  | 715.6  | 761.5  | 715.6  | 669.7  | 658.3  | 581.5 | 479.2 | 428.1 | 399.0 |
| 132.5° | 632.1  | 642.4  | 683.5  | 724.6  | 683.5  | 642.4  | 632.1  | 563.5 | 472.0 | 426.2 | 399.5 |
| 135°   | 595.2  | 604.1  | 639.5  | 675.0  | 639.5  | 604.1  | 595.2  | 537.8 | 461.1 | 422.8 | 399.1 |
| 137.5° | 568.0  | 575.2  | 604.3  | 633.3  | 604.3  | 575.2  | 568.0  | 519.3 | 454.5 | 422.1 | 401.5 |
| 140°   | 546.1  | 552.9  | 580.0  | 607.1  | 580.0  | 552.9  | 546.1  | 504.2 | 448.2 | 420.2 | 402.0 |
| 142.5° | 530.8  | 536.7  | 560.0  | 583.3  | 560.0  | 536.7  | 530.8  | 493.9 | 444.8 | 420.2 | 403.4 |
| 145°   | 507.9  | 512.3  | 530.0  | 547.6  | 530.0  | 512.3  | 507.9  | 477.7 | 437.5 | 417.4 | 403.4 |
| 147.5° | 488.6  | 492.3  | 506.8  | 521.4  | 506.8  | 492.3  | 488.6  | 464.8 | 433.2 | 417.4 | 406.2 |
| 150°   | 477.5  | 480.4  | 492.3  | 504.2  | 492.3  | 480.4  | 477.5  | 457.5 | 430.8 | 417.4 | 407.6 |
| 152.5° | 468.7  | 470.9  | 479.9  | 488.9  | 479.9  | 470.9  | 468.7  | 451.6 | 428.7 | 417.4 | 408.6 |
| 155°   | 458.2  | 459.7  | 465.6  | 471.5  | 465.6  | 459.7  | 458.2  | 444.6 | 426.5 | 417.4 | 410.7 |
| 157.5° | 449.1  | 450.1  | 454.4  | 458.5  | 454.4  | 450.1  | 449.1  | 438.6 | 424.4 | 417.4 | 412.8 |
| 160°   | 444.6  | 445.2  | 447.6  | 449.9  | 447.6  | 445.2  | 444.6  | 435.5 | 423.4 | 417.4 | 413.7 |
| 162.5° | 440.3  | 440.9  | 443.2  | 445.4  | 443.2  | 440.9  | 440.3  | 432.7 | 422.5 | 417.4 | 414.7 |
| 165°   | 433.8  | 434.4  | 436.8  | 439.2  | 436.8  | 434.4  | 433.8  | 428.3 | 421.0 | 417.4 | 416.2 |
| 167.5° | 430.9  | 431.2  | 432.2  | 433.2  | 432.2  | 431.2  | 430.9  | 427.4 | 422.6 | 420.2 | 419.2 |
| 170°   | 430.9  | 430.9  | 430.9  | 430.9  | 430.9  | 430.9  | 430.9  | 427.4 | 422.6 | 420.2 | 420.1 |
| 172.5° | 428.7  | 428.5  | 427.6  | 426.7  | 427.6  | 428.5  | 428.7  | 425.8 | 422.0 | 420.2 | 420.2 |
| 175°   | 425.5  | 425.5  | 425.5  | 425.5  | 425.5  | 425.5  | 425.5  | 423.8 | 421.4 | 420.2 | 420.8 |
| 177.5° | 425.0  | 424.7  | 423.8  | 422.8  | 423.8  | 424.7  | 425.0  | 423.6 | 421.7 | 420.8 | 421.2 |
| 180°   | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8 | 422.8 | 422.8 | 422.8 |



TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1455.0 | 1455.0 | 1455.0 | 1455.0 | 1455.0 |
| 2.5°   | 1437.1 | 1444.0 | 1448.1 | 1453.6 | 1467.4 |
| 5°     | 1382.0 | 1408.2 | 1416.5 | 1437.1 | 1461.9 |
| 7.5°   | 1260.9 | 1340.8 | 1362.8 | 1412.3 | 1450.9 |
| 10°    | 1143.9 | 1223.7 | 1262.3 | 1379.3 | 1437.1 |
| 12.5°  | 1084.7 | 1131.5 | 1157.7 | 1321.5 | 1417.8 |
| 15°    | 1047.5 | 1080.6 | 1099.9 | 1244.4 | 1395.8 |
| 17.5°  | 1018.6 | 1042.0 | 1055.8 | 1168.7 | 1365.5 |
| 20°    | 1000.7 | 1011.8 | 1024.1 | 1113.6 | 1331.1 |
| 22.5°  | 988.4  | 981.5  | 991.1  | 1075.1 | 1284.3 |
| 25°    | 980.1  | 953.9  | 965.0  | 1044.8 | 1229.3 |
| 27.5°  | 987.0  | 929.2  | 933.3  | 1017.3 | 1171.4 |
| 30°    | 988.4  | 898.9  | 900.3  | 988.4  | 1106.7 |
| 32.5°  | 978.7  | 867.2  | 868.6  | 952.6  | 1033.8 |
| 35°    | 955.3  | 830.1  | 828.7  | 911.3  | 934.7  |
| 37.5°  | 923.7  | 790.1  | 790.1  | 865.8  | 825.9  |
| 40°    | 885.1  | 750.2  | 754.3  | 806.7  | 729.6  |
| 42.5°  | 838.3  | 707.5  | 713.0  | 728.2  | 658.0  |
| 45°    | 787.4  | 666.2  | 670.4  | 615.3  | 602.9  |
| 47.5°  | 730.9  | 623.6  | 625.0  | 510.7  | 585.0  |
| 50°    | 663.5  | 579.5  | 574.0  | 437.7  | 583.7  |
| 52.5°  | 604.3  | 531.3  | 514.8  | 396.4  | 530.0  |
| 55°    | 546.5  | 480.4  | 444.6  | 364.8  | 491.4  |
| 57.5°  | 495.6  | 414.3  | 379.9  | 327.6  | 483.2  |
| 60°    | 448.8  | 349.6  | 323.5  | 287.7  | 443.2  |
| 62.5°  | 410.2  | 301.5  | 296.0  | 260.2  | 402.0  |
| 65°    | 368.9  | 268.4  | 267.0  | 236.8  | 341.4  |
| 67.5°  | 329.0  | 246.4  | 245.0  | 214.7  | 260.2  |
| 70°    | 286.3  | 223.0  | 220.2  | 191.3  | 192.7  |
| 72.5°  | 242.3  | 196.8  | 194.1  | 172.1  | 159.7  |
| 75°    | 198.2  | 166.6  | 165.2  | 150.0  | 129.4  |
| 77.5°  | 155.5  | 132.1  | 134.9  | 121.1  | 95.0   |
| 80°    | 111.5  | 96.4   | 99.1   | 86.7   | 71.6   |
| 82.5°  | 74.3   | 63.3   | 66.1   | 55.1   | 48.2   |
| 85°    | 41.3   | 35.8   | 37.2   | 28.9   | 22.0   |
| 87.5°  | 19.3   | 16.5   | 16.5   | 11.0   | 6.9    |
| 90°    | 12.5   | 8.0    | 7.4    | 5.1    | 2.8    |
| 92.5°  | 77.0   | 54.8   | 49.9   | 30.7   | 11.4   |
| 95°    | 189.4  | 106.6  | 97.8   | 62.5   | 27.3   |
| 97.5°  | 255.2  | 117.2  | 109.4  | 78.3   | 47.1   |
| 100°   | 279.1  | 126.0  | 118.9  | 90.7   | 62.4   |
| 102.5° | 290.1  | 134.8  | 128.2  | 101.9  | 75.4   |
| 105°   | 298.2  | 147.8  | 142.2  | 119.9  | 97.6   |
| 107.5° | 299.7  | 167.1  | 161.9  | 141.1  | 120.3  |
| 110°   | 297.4  | 177.8  | 173.2  | 154.4  | 135.6  |



TEST NUMBER: P934364

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 297.5 | 191.0  | 186.5 | 168.6 | 150.7 |
| 115°   | 300.3 | 210.5  | 206.4 | 189.9 | 173.4 |
| 117.5° | 305.9 | 229.5  | 225.8 | 210.8 | 195.7 |
| 120°   | 310.4 | 240.6  | 237.0 | 222.9 | 208.8 |
| 122.5° | 316.9 | 253.7  | 250.1 | 235.8 | 221.6 |
| 125°   | 325.7 | 270.4  | 267.1 | 254.1 | 241.2 |
| 127.5° | 334.5 | 286.6  | 283.3 | 270.2 | 257.0 |
| 130°   | 340.9 | 297.3  | 293.8 | 279.7 | 265.6 |
| 132.5° | 346.2 | 306.1  | 302.7 | 288.5 | 274.4 |
| 135°   | 351.8 | 316.3  | 313.1 | 300.3 | 287.4 |
| 137.5° | 360.3 | 329.4  | 326.1 | 313.5 | 300.7 |
| 140°   | 365.5 | 338.2  | 335.2 | 323.6 | 311.8 |
| 142.5° | 369.8 | 344.7  | 341.9 | 331.1 | 320.3 |
| 145°   | 375.6 | 354.7  | 352.3 | 342.9 | 333.4 |
| 147.5° | 383.9 | 367.2  | 364.9 | 355.6 | 346.4 |
| 150°   | 388.3 | 373.7  | 371.6 | 363.3 | 355.0 |
| 152.5° | 391.0 | 377.9  | 376.3 | 370.0 | 363.7 |
| 155°   | 397.3 | 387.3  | 386.1 | 381.5 | 376.8 |
| 157.5° | 403.5 | 396.6  | 395.5 | 390.9 | 386.4 |
| 160°   | 406.4 | 400.8  | 399.9 | 396.4 | 393.0 |
| 162.5° | 409.4 | 405.4  | 404.8 | 402.1 | 399.5 |
| 165°   | 413.8 | 412.0  | 411.3 | 408.9 | 406.5 |
| 167.5° | 417.2 | 415.6  | 415.3 | 414.2 | 413.1 |
| 170°   | 420.0 | 419.9  | 419.7 | 418.5 | 417.4 |
| 172.5° | 420.2 | 420.2  | 420.1 | 419.9 | 419.7 |
| 175°   | 422.0 | 422.8  | 422.8 | 422.8 | 422.8 |
| 177.5° | 422.1 | 422.8  | 422.8 | 422.8 | 422.8 |
| 180°   | 422.8 | 422.8  | 422.8 | 422.8 | 422.8 |



TEST NUMBER: P934364  
 CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-5000K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 13.14            | 14.08 | 14.02 | 14.98 | 16.14 | 15.96          | 16.90 | 16.85 | 17.81 | 18.96 |
|                 | 3H   | 13.62            | 14.46 | 14.52 | 15.38 | 16.56 | 17.31          | 18.15 | 18.21 | 19.07 | 20.25 |
|                 | 4H   | 13.82            | 14.61 | 14.73 | 15.53 | 16.72 | 17.76          | 18.55 | 18.67 | 19.47 | 20.66 |
|                 | 6H   | 13.94            | 14.67 | 14.86 | 15.60 | 16.80 | 18.05          | 18.78 | 18.97 | 19.71 | 20.91 |
|                 | 8H   | 13.94            | 14.64 | 14.88 | 15.59 | 16.78 | 18.12          | 18.82 | 19.06 | 19.76 | 20.96 |
|                 | 12H  | 13.92            | 14.58 | 14.85 | 15.52 | 16.74 | 18.16          | 18.83 | 19.10 | 19.77 | 20.99 |
| 4H              | 2H   | 14.18            | 14.97 | 15.10 | 15.90 | 17.08 | 16.38          | 17.18 | 17.30 | 18.10 | 19.29 |
|                 | 3H   | 15.21            | 15.88 | 16.14 | 16.83 | 18.03 | 17.89          | 18.56 | 18.82 | 19.51 | 20.71 |
|                 | 4H   | 15.49            | 16.10 | 16.43 | 17.04 | 18.27 | 18.42          | 19.03 | 19.36 | 19.97 | 21.20 |
|                 | 6H   | 15.62            | 16.14 | 16.58 | 17.11 | 18.34 | 18.79          | 19.31 | 19.74 | 20.28 | 21.51 |
|                 | 8H   | 15.63            | 16.12 | 16.59 | 17.08 | 18.32 | 18.90          | 19.39 | 19.85 | 20.35 | 21.59 |
|                 | 12H  | 15.60            | 16.04 | 16.58 | 17.02 | 18.27 | 18.96          | 19.40 | 19.93 | 20.38 | 21.63 |
| 8H              | 4H   | 15.95            | 16.44 | 16.91 | 17.40 | 18.64 | 18.55          | 19.04 | 19.51 | 20.01 | 21.25 |
|                 | 6H   | 16.22            | 16.62 | 17.20 | 17.63 | 18.87 | 18.99          | 19.39 | 19.97 | 20.40 | 21.64 |
|                 | 8H   | 16.26            | 16.62 | 17.25 | 17.61 | 18.87 | 19.14          | 19.50 | 20.13 | 20.49 | 21.75 |
|                 | 12H  | 16.25            | 16.56 | 17.24 | 17.55 | 18.85 | 19.24          | 19.56 | 20.24 | 20.55 | 21.85 |
| 12H             | 4H   | 15.96            | 16.40 | 16.94 | 17.38 | 18.63 | 18.52          | 18.96 | 19.50 | 19.94 | 21.19 |
|                 | 6H   | 16.28            | 16.63 | 17.27 | 17.63 | 18.89 | 18.99          | 19.35 | 19.98 | 20.34 | 21.60 |
|                 | 8H   | 16.35            | 16.66 | 17.34 | 17.65 | 18.96 | 19.15          | 19.47 | 20.15 | 20.46 | 21.76 |