

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: P934337

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

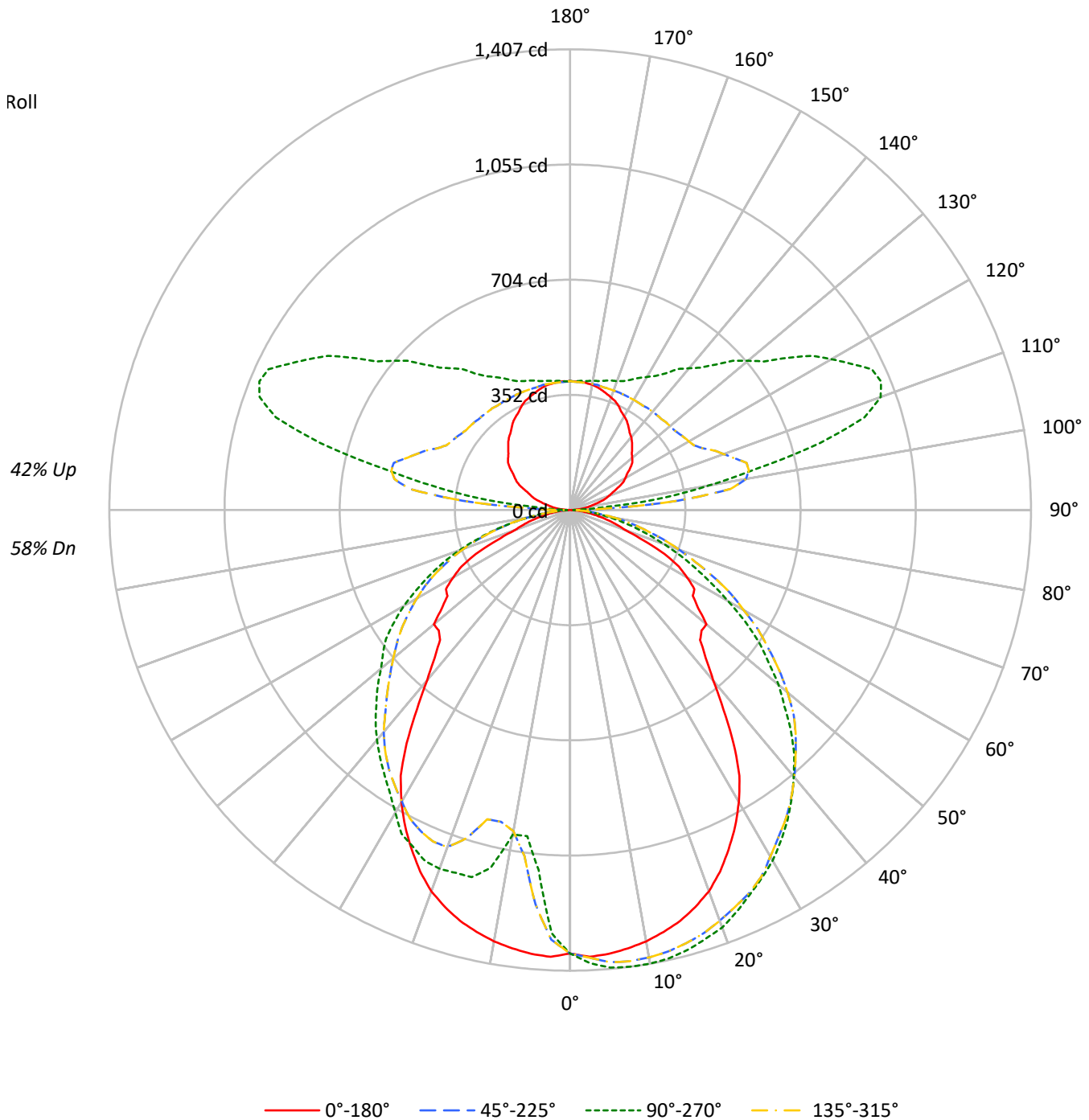
Test Method: LM-79-2019  
Report Number: P934337  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6063.4 lumens  
Efficiency: N/A  
Efficacy: 111.1 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: P934337  
CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**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°  | 8377 | 8377 | 8377 | 8377 |
| 5°  | 8437 | 8457 | 8437 | 6649 |
| 10° | 8378 | 8330 | 8378 | 5955 |
| 15° | 8283 | 8150 | 8283 | 6805 |
| 20° | 8107 | 7936 | 8107 | 6819 |
| 25° | 7749 | 7624 | 7749 | 6675 |
| 30° | 7288 | 7365 | 7288 | 6357 |
| 35° | 6494 | 7038 | 6494 | 6009 |
| 40° | 5408 | 6652 | 5408 | 5745 |
| 45° | 4829 | 6201 | 4829 | 5442 |
| 50° | 5126 | 5663 | 5126 | 5138 |
| 55° | 4818 | 5083 | 4818 | 4962 |
| 60° | 4960 | 4317 | 4960 | 4545 |
| 65° | 4490 | 3569 | 4490 | 3989 |
| 70° | 3103 | 2844 | 3103 | 3344 |
| 75° | 2709 | 2102 | 2709 | 2518 |
| 80° | 2168 | 1390 | 2168 | 1514 |
| 85° | 1222 | 735  | 1222 | 626  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7406 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.2  | 2.0       |
| 10°-20°   | 347.1  | 5.7       |
| 20°-30°   | 536.5  | 8.8       |
| 30°-40°   | 640.5  | 10.6      |
| 40°-50°   | 644.2  | 10.6      |
| 50°-60°   | 560.6  | 9.2       |
| 60°-70°   | 397.5  | 6.6       |
| 70°-80°   | 210.3  | 3.5       |
| 80°-90°   | 53.9   | 0.9       |
| 90°-100°  | 191.8  | 3.2       |
| 100°-110° | 504.2  | 8.3       |
| 110°-120° | 522.8  | 8.6       |
| 120°-130° | 419.4  | 6.9       |
| 130°-140° | 329.1  | 5.4       |
| 140°-150° | 252.6  | 4.2       |
| 150°-160° | 181.9  | 3.0       |
| 160°-170° | 111.3  | 1.8       |
| 170°-180° | 37.6   | 0.6       |
| 0°-30°    | 1005.8 | 16.6      |
| 0°-40°    | 1646.3 | 27.2      |
| 0°-60°    | 2851.2 | 47.0      |
| 0°-90°    | 3512.7 | 57.9      |
| 90°-120°  | 1218.9 | 20.1      |
| 90°-150°  | 2219.9 | 36.6      |
| 90°-180°  | 2551.0 | 42.1      |
| 0°-180°   | 6063.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1354 | 1354 | 1354 | 1354 | 1354 |      |
| 5°   | 1361 | 1403 | 1361 | 1103 | 1361 | 129  |
| 15°  | 1299 | 1390 | 1299 | 1161 | 1299 | 366  |
| 25°  | 1144 | 1297 | 1144 | 1135 | 1144 | 525  |
| 35°  | 870  | 1157 | 870  | 988  | 870  | 538  |
| 45°  | 561  | 953  | 561  | 837  | 561  | 450  |
| 55°  | 457  | 703  | 457  | 687  | 457  | 420  |
| 65°  | 318  | 424  | 318  | 474  | 318  | 304  |
| 75°  | 120  | 201  | 120  | 241  | 120  | 127  |
| 85°  | 20   | 51   | 20   | 44   | 20   | 28   |
| 90°  | 3    | 10   | 3    | 10   | 3    | 3    |
| 95°  | 25   | 116  | 25   | 116  | 25   | 28   |
| 105° | 91   | 790  | 91   | 790  | 91   | 96   |
| 115° | 161  | 1017 | 161  | 1017 | 161  | 159  |
| 125° | 224  | 810  | 224  | 810  | 224  | 199  |
| 135° | 268  | 628  | 268  | 628  | 268  | 207  |
| 145° | 310  | 510  | 310  | 510  | 310  | 194  |
| 155° | 351  | 439  | 351  | 439  | 351  | 161  |
| 165° | 378  | 409  | 378  | 409  | 378  | 107  |
| 175° | 394  | 396  | 394  | 396  | 394  | 37   |
| 180° | 394  | 394  | 394  | 394  | 394  |      |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 |
| 2.5°   | 1365.8 | 1365.8 | 1373.4 | 1376.0 | 1376.0 | 1372.2 | 1368.3 | 1372.2 | 1383.7 | 1387.5 | 1386.2 |
| 5°     | 1360.6 | 1370.9 | 1385.0 | 1387.5 | 1390.1 | 1388.8 | 1386.2 | 1388.8 | 1401.6 | 1404.2 | 1405.5 |
| 7.5°   | 1350.4 | 1369.6 | 1387.5 | 1391.4 | 1395.2 | 1391.4 | 1390.1 | 1392.7 | 1405.5 | 1408.0 | 1408.0 |
| 10°    | 1337.6 | 1364.5 | 1385.0 | 1387.5 | 1391.4 | 1387.5 | 1387.5 | 1392.7 | 1405.5 | 1408.0 | 1409.3 |
| 12.5°  | 1319.6 | 1356.8 | 1376.0 | 1378.6 | 1383.7 | 1382.4 | 1381.1 | 1386.2 | 1399.1 | 1401.6 | 1401.6 |
| 15°    | 1299.1 | 1342.7 | 1360.6 | 1363.2 | 1372.2 | 1369.6 | 1369.6 | 1374.7 | 1388.8 | 1392.7 | 1391.4 |
| 17.5°  | 1270.9 | 1324.8 | 1345.3 | 1349.1 | 1355.5 | 1354.2 | 1355.5 | 1360.6 | 1373.4 | 1376.0 | 1377.3 |
| 20°    | 1238.9 | 1300.4 | 1324.8 | 1328.6 | 1335.0 | 1335.0 | 1335.0 | 1341.4 | 1354.2 | 1359.3 | 1359.3 |
| 22.5°  | 1195.4 | 1274.8 | 1300.4 | 1303.0 | 1310.7 | 1310.7 | 1313.2 | 1322.2 | 1333.7 | 1335.0 | 1335.0 |
| 25°    | 1144.1 | 1246.6 | 1268.4 | 1276.1 | 1283.8 | 1287.6 | 1291.4 | 1296.6 | 1300.4 | 1299.1 | 1300.4 |
| 27.5°  | 1090.3 | 1210.7 | 1238.9 | 1244.0 | 1254.3 | 1258.1 | 1263.3 | 1264.5 | 1265.8 | 1269.7 | 1267.1 |
| 30°    | 1030.1 | 1160.8 | 1203.0 | 1208.2 | 1224.8 | 1227.4 | 1222.3 | 1224.8 | 1231.2 | 1233.8 | 1236.4 |
| 32.5°  | 962.2  | 1086.5 | 1165.9 | 1177.4 | 1192.8 | 1185.1 | 1183.8 | 1187.7 | 1197.9 | 1197.9 | 1200.5 |
| 35°    | 869.9  | 1028.8 | 1131.3 | 1141.5 | 1153.1 | 1144.1 | 1149.2 | 1150.5 | 1156.9 | 1160.8 | 1159.5 |
| 37.5°  | 768.7  | 978.8  | 1095.4 | 1103.1 | 1112.1 | 1100.5 | 1108.2 | 1112.1 | 1117.2 | 1114.6 | 1114.6 |
| 40°    | 679.0  | 900.7  | 1053.1 | 1058.3 | 1066.0 | 1057.0 | 1064.7 | 1067.2 | 1069.8 | 1067.2 | 1066.0 |
| 42.5°  | 612.4  | 814.8  | 1008.3 | 1014.7 | 1009.6 | 1016.0 | 1018.5 | 1023.7 | 1019.8 | 1014.7 | 1014.7 |
| 45°    | 561.2  | 791.8  | 959.6  | 967.3  | 959.6  | 969.9  | 973.7  | 973.7  | 962.2  | 959.6  | 958.3  |
| 47.5°  | 544.5  | 745.7  | 910.9  | 910.9  | 907.1  | 919.9  | 926.3  | 917.3  | 905.8  | 902.0  | 902.0  |
| 50°    | 543.2  | 694.4  | 844.3  | 839.2  | 857.1  | 872.5  | 866.1  | 857.1  | 848.1  | 834.1  | 834.1  |
| 52.5°  | 493.3  | 631.6  | 758.5  | 777.7  | 805.9  | 814.8  | 804.6  | 795.6  | 780.2  | 773.8  | 768.7  |
| 55°    | 457.4  | 566.3  | 680.3  | 718.7  | 748.2  | 759.7  | 740.5  | 731.6  | 708.5  | 704.7  | 702.1  |
| 57.5°  | 449.7  | 471.5  | 608.6  | 657.3  | 693.1  | 691.8  | 680.3  | 663.7  | 644.4  | 640.6  | 639.3  |
| 60°    | 412.5  | 340.8  | 531.7  | 589.3  | 626.5  | 622.7  | 612.4  | 597.0  | 579.1  | 576.5  | 574.0  |
| 62.5°  | 374.1  | 247.3  | 444.6  | 509.9  | 562.4  | 561.2  | 552.2  | 529.1  | 516.3  | 509.9  | 504.8  |
| 65°    | 317.7  | 207.6  | 316.5  | 424.1  | 499.7  | 502.2  | 483.0  | 466.4  | 452.3  | 444.6  | 443.3  |
| 67.5°  | 242.1  | 169.1  | 214.0  | 353.6  | 439.4  | 436.9  | 412.5  | 404.9  | 386.9  | 383.1  | 375.4  |
| 70°    | 179.4  | 112.7  | 148.6  | 287.0  | 380.5  | 374.1  | 354.9  | 345.9  | 329.3  | 320.3  | 315.2  |
| 72.5°  | 148.6  | 91.0   | 108.9  | 222.9  | 320.3  | 312.6  | 296.0  | 285.7  | 271.6  | 263.9  | 258.8  |
| 75°    | 120.4  | 96.1   | 83.3   | 165.3  | 260.1  | 255.0  | 239.6  | 229.3  | 217.8  | 207.6  | 208.8  |
| 77.5°  | 88.4   | 89.7   | 66.6   | 121.7  | 206.3  | 198.6  | 189.6  | 176.8  | 171.7  | 161.4  | 161.4  |
| 80°    | 66.6   | 70.5   | 50.0   | 83.3   | 148.6  | 148.6  | 140.9  | 132.0  | 123.0  | 117.9  | 117.9  |
| 82.5°  | 44.8   | 44.8   | 37.2   | 52.5   | 101.2  | 97.4   | 92.2   | 89.7   | 84.6   | 82.0   | 82.0   |
| 85°    | 20.5   | 25.6   | 23.1   | 32.0   | 55.1   | 57.7   | 57.7   | 55.1   | 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°    | 2.6    | 4.8    | 6.9    | 7.4    | 11.6   | 17.3   | 20.1   | 17.9   | 13.3   | 10.0   | 10.0   |
| 92.5°  | 10.6   | 28.5   | 46.5   | 51.0   | 71.7   | 99.2   | 113.0  | 99.0   | 71.1   | 50.1   | 48.2   |
| 95°    | 25.4   | 58.2   | 91.1   | 99.2   | 176.3  | 279.0  | 330.4  | 294.8  | 223.7  | 170.3  | 164.2  |
| 97.5°  | 43.8   | 72.9   | 101.8  | 109.1  | 237.5  | 408.8  | 494.4  | 471.9  | 426.9  | 393.2  | 381.6  |
| 100°   | 58.1   | 84.4   | 110.7  | 117.3  | 259.7  | 449.8  | 544.8  | 546.4  | 549.7  | 552.2  | 538.5  |
| 102.5° | 70.2   | 94.8   | 119.3  | 125.5  | 270.0  | 462.7  | 559.0  | 587.6  | 645.0  | 687.9  | 676.2  |
| 105°   | 90.9   | 111.6  | 132.4  | 137.6  | 277.5  | 464.1  | 557.4  | 621.6  | 750.0  | 846.4  | 840.0  |
| 107.5° | 112.0  | 131.4  | 150.7  | 155.5  | 279.0  | 443.5  | 525.7  | 615.2  | 794.3  | 928.7  | 930.2  |
| 110°   | 126.2  | 143.7  | 161.2  | 165.5  | 276.8  | 425.2  | 499.3  | 599.4  | 799.7  | 949.9  | 956.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 140.2 | 156.9 | 173.6 | 177.7 | 276.9 | 409.2 | 475.3 | 577.8 | 782.7 | 936.4 | 946.5 |
| 115°   | 161.3 | 176.7 | 192.1 | 195.9 | 279.5 | 390.8 | 446.5 | 545.3 | 742.7 | 890.7 | 904.7 |
| 117.5° | 182.2 | 196.2 | 210.1 | 213.6 | 284.7 | 379.4 | 426.7 | 515.8 | 694.0 | 827.6 | 843.1 |
| 120°   | 194.3 | 207.5 | 220.6 | 224.0 | 288.9 | 375.5 | 418.8 | 500.2 | 663.0 | 785.0 | 800.1 |
| 122.5° | 206.3 | 219.5 | 232.7 | 236.1 | 294.9 | 373.4 | 412.7 | 486.0 | 632.7 | 742.6 | 757.4 |
| 125°   | 224.5 | 236.5 | 248.6 | 251.6 | 303.1 | 371.8 | 406.1 | 468.4 | 592.9 | 686.3 | 700.0 |
| 127.5° | 239.2 | 251.5 | 263.7 | 266.7 | 311.3 | 370.9 | 400.6 | 454.1 | 560.9 | 641.1 | 652.6 |
| 130°   | 247.2 | 260.3 | 273.5 | 276.7 | 317.3 | 371.4 | 398.5 | 446.0 | 541.3 | 612.7 | 623.3 |
| 132.5° | 255.4 | 268.5 | 281.7 | 284.9 | 322.2 | 371.8 | 396.7 | 439.3 | 524.4 | 588.3 | 597.9 |
| 135°   | 267.5 | 279.5 | 291.4 | 294.4 | 327.5 | 371.5 | 393.5 | 429.2 | 500.5 | 554.0 | 562.3 |
| 137.5° | 279.9 | 291.8 | 303.6 | 306.5 | 335.3 | 373.7 | 392.9 | 423.0 | 483.4 | 528.6 | 535.4 |
| 140°   | 290.2 | 301.2 | 312.0 | 314.7 | 340.2 | 374.1 | 391.1 | 417.2 | 469.3 | 508.3 | 514.6 |
| 142.5° | 298.1 | 308.2 | 318.2 | 320.8 | 344.2 | 375.5 | 391.1 | 414.0 | 459.7 | 494.0 | 499.5 |
| 145°   | 310.3 | 319.1 | 327.9 | 330.1 | 349.6 | 375.5 | 388.5 | 407.2 | 444.6 | 472.7 | 476.8 |
| 147.5° | 322.4 | 331.0 | 339.6 | 341.7 | 357.3 | 378.0 | 388.5 | 403.1 | 432.6 | 454.7 | 458.2 |
| 150°   | 330.4 | 338.1 | 345.8 | 347.8 | 361.4 | 379.4 | 388.5 | 400.9 | 425.8 | 444.4 | 447.1 |
| 152.5° | 338.5 | 344.4 | 350.3 | 351.7 | 363.9 | 380.3 | 388.5 | 399.0 | 420.3 | 436.2 | 438.3 |
| 155°   | 350.7 | 355.1 | 359.3 | 360.4 | 369.8 | 382.2 | 388.5 | 396.9 | 413.8 | 426.5 | 427.8 |
| 157.5° | 359.7 | 363.9 | 368.1 | 369.2 | 375.6 | 384.2 | 388.5 | 395.0 | 408.2 | 418.0 | 418.9 |
| 160°   | 365.7 | 369.0 | 372.2 | 373.1 | 378.2 | 385.0 | 388.5 | 394.1 | 405.4 | 413.8 | 414.3 |
| 162.5° | 371.8 | 374.3 | 376.8 | 377.4 | 381.0 | 386.0 | 388.5 | 393.2 | 402.7 | 409.8 | 410.3 |
| 165°   | 378.4 | 380.6 | 382.8 | 383.4 | 385.1 | 387.3 | 388.5 | 391.9 | 398.6 | 403.7 | 404.3 |
| 167.5° | 384.4 | 385.5 | 386.6 | 386.8 | 388.3 | 390.2 | 391.1 | 393.3 | 397.8 | 401.1 | 401.4 |
| 170°   | 388.5 | 389.5 | 390.6 | 390.8 | 390.9 | 391.0 | 391.1 | 393.3 | 397.8 | 401.1 | 401.1 |
| 172.5° | 390.6 | 390.8 | 391.0 | 391.1 | 391.1 | 391.1 | 391.1 | 392.8 | 396.3 | 399.0 | 398.8 |
| 175°   | 393.5 | 393.5 | 393.5 | 393.5 | 392.7 | 391.6 | 391.1 | 392.2 | 394.4 | 396.1 | 396.1 |
| 177.5° | 393.5 | 393.5 | 393.5 | 393.5 | 392.9 | 392.0 | 391.6 | 392.5 | 394.3 | 395.5 | 395.3 |
| 180°   | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 |
| 2.5°   | 1388.8 | 1385.0 | 1388.8 | 1386.2 | 1387.5 | 1383.7 | 1372.2 | 1368.3 | 1372.2 | 1376.0 | 1376.0 |
| 5°     | 1405.5 | 1402.9 | 1405.5 | 1405.5 | 1404.2 | 1401.6 | 1388.8 | 1386.2 | 1388.8 | 1390.1 | 1387.5 |
| 7.5°   | 1410.6 | 1406.7 | 1410.6 | 1408.0 | 1408.0 | 1405.5 | 1392.7 | 1390.1 | 1391.4 | 1395.2 | 1391.4 |
| 10°    | 1410.6 | 1406.7 | 1410.6 | 1409.3 | 1408.0 | 1405.5 | 1392.7 | 1387.5 | 1387.5 | 1391.4 | 1387.5 |
| 12.5°  | 1404.2 | 1401.6 | 1404.2 | 1401.6 | 1401.6 | 1399.1 | 1386.2 | 1381.1 | 1382.4 | 1383.7 | 1378.6 |
| 15°    | 1393.9 | 1390.1 | 1393.9 | 1391.4 | 1392.7 | 1388.8 | 1374.7 | 1369.6 | 1369.6 | 1372.2 | 1363.2 |
| 17.5°  | 1378.6 | 1373.4 | 1378.6 | 1377.3 | 1376.0 | 1373.4 | 1360.6 | 1355.5 | 1354.2 | 1355.5 | 1349.1 |
| 20°    | 1360.6 | 1356.8 | 1360.6 | 1359.3 | 1359.3 | 1354.2 | 1341.4 | 1335.0 | 1335.0 | 1335.0 | 1328.6 |
| 22.5°  | 1332.4 | 1328.6 | 1332.4 | 1335.0 | 1335.0 | 1333.7 | 1322.2 | 1313.2 | 1310.7 | 1310.7 | 1303.0 |
| 25°    | 1300.4 | 1296.6 | 1300.4 | 1300.4 | 1299.1 | 1300.4 | 1296.6 | 1291.4 | 1287.6 | 1283.8 | 1276.1 |
| 27.5°  | 1269.7 | 1267.1 | 1269.7 | 1267.1 | 1269.7 | 1265.8 | 1264.5 | 1263.3 | 1258.1 | 1254.3 | 1244.0 |
| 30°    | 1238.9 | 1236.4 | 1238.9 | 1236.4 | 1233.8 | 1231.2 | 1224.8 | 1222.3 | 1227.4 | 1224.8 | 1208.2 |
| 32.5°  | 1200.5 | 1197.9 | 1200.5 | 1200.5 | 1197.9 | 1197.9 | 1187.7 | 1183.8 | 1185.1 | 1192.8 | 1177.4 |
| 35°    | 1160.8 | 1156.9 | 1160.8 | 1159.5 | 1160.8 | 1156.9 | 1150.5 | 1149.2 | 1144.1 | 1153.1 | 1141.5 |
| 37.5°  | 1114.6 | 1110.8 | 1114.6 | 1114.6 | 1114.6 | 1117.2 | 1112.1 | 1108.2 | 1100.5 | 1112.1 | 1103.1 |
| 40°    | 1067.2 | 1062.1 | 1067.2 | 1066.0 | 1067.2 | 1069.8 | 1067.2 | 1064.7 | 1057.0 | 1066.0 | 1058.3 |
| 42.5°  | 1013.4 | 1012.1 | 1013.4 | 1014.7 | 1014.7 | 1019.8 | 1023.7 | 1018.5 | 1016.0 | 1009.6 | 1014.7 |
| 45°    | 955.8  | 953.2  | 955.8  | 958.3  | 959.6  | 962.2  | 973.7  | 973.7  | 969.9  | 959.6  | 967.3  |
| 47.5°  | 894.3  | 887.9  | 894.3  | 902.0  | 902.0  | 905.8  | 917.3  | 926.3  | 919.9  | 907.1  | 910.9  |
| 50°    | 828.9  | 830.2  | 828.9  | 834.1  | 834.1  | 848.1  | 857.1  | 866.1  | 872.5  | 857.1  | 839.2  |
| 52.5°  | 764.9  | 763.6  | 764.9  | 768.7  | 773.8  | 780.2  | 795.6  | 804.6  | 814.8  | 805.9  | 777.7  |
| 55°    | 700.8  | 703.4  | 700.8  | 702.1  | 704.7  | 708.5  | 731.6  | 740.5  | 759.7  | 748.2  | 718.7  |
| 57.5°  | 636.8  | 632.9  | 636.8  | 639.3  | 640.6  | 644.4  | 663.7  | 680.3  | 691.8  | 693.1  | 657.3  |
| 60°    | 562.4  | 557.3  | 562.4  | 574.0  | 576.5  | 579.1  | 597.0  | 612.4  | 622.7  | 626.5  | 589.3  |
| 62.5°  | 497.1  | 488.1  | 497.1  | 504.8  | 509.9  | 516.3  | 529.1  | 552.2  | 561.2  | 562.4  | 509.9  |
| 65°    | 427.9  | 424.1  | 427.9  | 443.3  | 444.6  | 452.3  | 466.4  | 483.0  | 502.2  | 499.7  | 424.1  |
| 67.5°  | 365.1  | 365.1  | 365.1  | 375.4  | 383.1  | 386.9  | 404.9  | 412.5  | 436.9  | 439.4  | 353.6  |
| 70°    | 307.5  | 306.2  | 307.5  | 315.2  | 320.3  | 329.3  | 345.9  | 354.9  | 374.1  | 380.5  | 287.0  |
| 72.5°  | 252.4  | 251.1  | 252.4  | 258.8  | 263.9  | 271.6  | 285.7  | 296.0  | 312.6  | 320.3  | 222.9  |
| 75°    | 203.7  | 201.1  | 203.7  | 208.8  | 207.6  | 217.8  | 229.3  | 239.6  | 255.0  | 260.1  | 165.3  |
| 77.5°  | 156.3  | 156.3  | 156.3  | 161.4  | 161.4  | 171.7  | 176.8  | 189.6  | 198.6  | 206.3  | 121.7  |
| 80°    | 116.6  | 115.3  | 116.6  | 117.9  | 117.9  | 123.0  | 132.0  | 140.9  | 148.6  | 148.6  | 83.3   |
| 82.5°  | 82.0   | 79.4   | 82.0   | 82.0   | 82.0   | 84.6   | 89.7   | 92.2   | 97.4   | 101.2  | 52.5   |
| 85°    | 51.2   | 51.2   | 51.2   | 52.5   | 51.2   | 53.8   | 55.1   | 57.7   | 57.7   | 55.1   | 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°    | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 13.3   | 17.9   | 20.1   | 17.3   | 11.6   | 7.4    |
| 92.5°  | 40.1   | 32.2   | 40.1   | 48.2   | 50.1   | 71.1   | 99.0   | 113.0  | 99.2   | 71.7   | 51.0   |
| 95°    | 140.1  | 115.9  | 140.1  | 164.2  | 170.3  | 223.7  | 294.8  | 330.4  | 279.0  | 176.3  | 99.2   |
| 97.5°  | 335.7  | 289.7  | 335.7  | 381.6  | 393.2  | 426.9  | 471.9  | 494.4  | 408.8  | 237.5  | 109.1  |
| 100°   | 483.7  | 428.9  | 483.7  | 538.5  | 552.2  | 549.7  | 546.4  | 544.8  | 449.8  | 259.7  | 117.3  |
| 102.5° | 629.2  | 582.3  | 629.2  | 676.2  | 687.9  | 645.0  | 587.6  | 559.0  | 462.7  | 270.0  | 125.5  |
| 105°   | 814.8  | 789.6  | 814.8  | 840.0  | 846.4  | 750.0  | 621.6  | 557.4  | 464.1  | 277.5  | 137.6  |
| 107.5° | 936.3  | 942.4  | 936.3  | 930.2  | 928.7  | 794.3  | 615.2  | 525.7  | 443.5  | 279.0  | 155.5  |
| 110°   | 982.7  | 1009.0 | 982.7  | 956.5  | 949.9  | 799.7  | 599.4  | 499.3  | 425.2  | 276.8  | 165.5  |





TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°    | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 986.9 | 1027.2 | 986.9 | 946.5 | 936.4  | 782.7 | 577.8 | 475.3 | 409.2 | 276.9 | 177.7  |
| 115°   | 960.6 | 1016.7 | 960.6 | 904.7 | 890.7  | 742.7 | 545.3 | 446.5 | 390.8 | 279.5 | 195.9  |
| 117.5° | 905.2 | 967.3  | 905.2 | 843.1 | 827.6  | 694.0 | 515.8 | 426.7 | 379.4 | 284.7 | 213.6  |
| 120°   | 860.4 | 920.8  | 860.4 | 800.1 | 785.0  | 663.0 | 500.2 | 418.8 | 375.5 | 288.9 | 224.0  |
| 122.5° | 817.0 | 876.4  | 817.0 | 757.4 | 742.6  | 632.7 | 486.0 | 412.7 | 373.4 | 294.9 | 236.1  |
| 125°   | 754.8 | 809.6  | 754.8 | 700.0 | 686.3  | 592.9 | 468.4 | 406.1 | 371.8 | 303.1 | 251.6  |
| 127.5° | 698.9 | 745.2  | 698.9 | 652.6 | 641.1  | 560.9 | 454.1 | 400.6 | 370.9 | 311.3 | 266.7  |
| 130°   | 666.0 | 708.8  | 666.0 | 623.3 | 612.7  | 541.3 | 446.0 | 398.5 | 371.4 | 317.3 | 276.7  |
| 132.5° | 636.2 | 674.4  | 636.2 | 597.9 | 588.3  | 524.4 | 439.3 | 396.7 | 371.8 | 322.2 | 284.9  |
| 135°   | 595.2 | 628.2  | 595.2 | 562.3 | 554.0  | 500.5 | 429.2 | 393.5 | 371.5 | 327.5 | 294.4  |
| 137.5° | 562.4 | 589.4  | 562.4 | 535.4 | 528.6  | 483.4 | 423.0 | 392.9 | 373.7 | 335.3 | 306.5  |
| 140°   | 539.8 | 565.1  | 539.8 | 514.6 | 508.3  | 469.3 | 417.2 | 391.1 | 374.1 | 340.2 | 314.7  |
| 142.5° | 521.2 | 542.9  | 521.2 | 499.5 | 494.0  | 459.7 | 414.0 | 391.1 | 375.5 | 344.2 | 320.8  |
| 145°   | 493.3 | 509.7  | 493.3 | 476.8 | 472.7  | 444.6 | 407.2 | 388.5 | 375.5 | 349.6 | 330.1  |
| 147.5° | 471.7 | 485.3  | 471.7 | 458.2 | 454.7  | 432.6 | 403.1 | 388.5 | 378.0 | 357.3 | 341.7  |
| 150°   | 458.2 | 469.3  | 458.2 | 447.1 | 444.4  | 425.8 | 400.9 | 388.5 | 379.4 | 361.4 | 347.8  |
| 152.5° | 446.6 | 455.0  | 446.6 | 438.3 | 436.2  | 420.3 | 399.0 | 388.5 | 380.3 | 363.9 | 351.7  |
| 155°   | 433.4 | 438.9  | 433.4 | 427.8 | 426.5  | 413.8 | 396.9 | 388.5 | 382.2 | 369.8 | 360.4  |
| 157.5° | 422.9 | 426.7  | 422.9 | 418.9 | 418.0  | 408.2 | 395.0 | 388.5 | 384.2 | 375.6 | 369.2  |
| 160°   | 416.6 | 418.8  | 416.6 | 414.3 | 413.8  | 405.4 | 394.1 | 388.5 | 385.0 | 378.2 | 373.1  |
| 162.5° | 412.5 | 414.6  | 412.5 | 410.3 | 409.8  | 402.7 | 393.2 | 388.5 | 386.0 | 381.0 | 377.4  |
| 165°   | 406.6 | 408.8  | 406.6 | 404.3 | 403.7  | 398.6 | 391.9 | 388.5 | 387.3 | 385.1 | 383.4  |
| 167.5° | 402.3 | 403.2  | 402.3 | 401.4 | 401.1  | 397.8 | 393.3 | 391.1 | 390.2 | 388.3 | 386.8  |
| 170°   | 401.1 | 401.1  | 401.1 | 401.1 | 401.1  | 397.8 | 393.3 | 391.1 | 391.0 | 390.9 | 390.8  |
| 172.5° | 397.9 | 397.2  | 397.9 | 398.8 | 399.0  | 396.3 | 392.8 | 391.1 | 391.1 | 391.1 | 391.1  |
| 175°   | 396.1 | 396.1  | 396.1 | 396.1 | 396.1  | 394.4 | 392.2 | 391.1 | 391.6 | 392.7 | 393.5  |
| 177.5° | 394.4 | 393.5  | 394.4 | 395.3 | 395.5  | 394.3 | 392.5 | 391.6 | 392.0 | 392.9 | 393.5  |
| 180°   | 393.5 | 393.5  | 393.5 | 393.5 | 393.5  | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5  |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°   | 200°   | 202.5° | 210°   | 220°   | 225°   | 230°   | 240°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 |
| 2.5°   | 1373.4 | 1365.8 | 1365.8 | 1352.9 | 1347.8 | 1344.0 | 1337.6 | 1318.3 | 1313.2 | 1308.1 | 1315.8 |
| 5°     | 1385.0 | 1370.9 | 1360.6 | 1337.6 | 1318.3 | 1310.7 | 1286.3 | 1240.2 | 1209.4 | 1186.4 | 1173.6 |
| 7.5°   | 1387.5 | 1369.6 | 1350.4 | 1314.5 | 1268.4 | 1247.9 | 1173.6 | 1089.0 | 1066.0 | 1045.5 | 1032.6 |
| 10°    | 1385.0 | 1364.5 | 1337.6 | 1283.8 | 1174.9 | 1139.0 | 1064.7 | 1009.6 | 995.5  | 991.6  | 995.5  |
| 12.5°  | 1376.0 | 1356.8 | 1319.6 | 1229.9 | 1077.5 | 1053.1 | 1009.6 | 977.5  | 975.0  | 981.4  | 1016.0 |
| 15°    | 1360.6 | 1342.7 | 1299.1 | 1158.2 | 1023.7 | 1005.7 | 975.0  | 963.5  | 977.5  | 1022.4 | 1126.2 |
| 17.5°  | 1345.3 | 1324.8 | 1270.9 | 1087.7 | 982.7  | 969.9  | 948.1  | 971.1  | 1050.6 | 1110.8 | 1145.4 |
| 20°    | 1324.8 | 1300.4 | 1238.9 | 1036.5 | 953.2  | 941.7  | 931.4  | 1035.2 | 1095.4 | 1117.2 | 1136.4 |
| 22.5°  | 1300.4 | 1274.8 | 1195.4 | 1000.6 | 922.5  | 913.5  | 919.9  | 1071.1 | 1095.4 | 1110.8 | 1127.4 |
| 25°    | 1268.4 | 1246.6 | 1144.1 | 972.4  | 898.1  | 887.9  | 912.2  | 1067.2 | 1081.3 | 1085.2 | 1118.5 |
| 27.5°  | 1238.9 | 1210.7 | 1090.3 | 946.8  | 868.6  | 864.8  | 918.6  | 1050.6 | 1060.8 | 1064.7 | 1100.5 |
| 30°    | 1203.0 | 1160.8 | 1030.1 | 919.9  | 837.9  | 836.6  | 919.9  | 1030.1 | 1027.5 | 1037.8 | 1073.6 |
| 32.5°  | 1165.9 | 1086.5 | 962.2  | 886.6  | 808.4  | 807.2  | 910.9  | 999.3  | 996.8  | 1010.9 | 1037.8 |
| 35°    | 1131.3 | 1028.8 | 869.9  | 848.1  | 771.3  | 772.6  | 889.1  | 963.5  | 964.7  | 977.5  | 994.2  |
| 37.5°  | 1095.4 | 978.8  | 768.7  | 805.9  | 735.4  | 735.4  | 859.7  | 930.1  | 927.6  | 931.4  | 954.5  |
| 40°    | 1053.1 | 900.7  | 679.0  | 750.8  | 702.1  | 698.2  | 823.8  | 894.3  | 885.3  | 884.0  | 916.1  |
| 42.5°  | 1008.3 | 814.8  | 612.4  | 677.8  | 663.7  | 658.5  | 780.2  | 850.7  | 834.1  | 837.9  | 878.9  |
| 45°    | 959.6  | 791.8  | 561.2  | 572.7  | 623.9  | 620.1  | 732.8  | 800.7  | 789.2  | 799.5  | 841.7  |
| 47.5°  | 910.9  | 745.7  | 544.5  | 475.3  | 581.7  | 580.4  | 680.3  | 752.1  | 745.7  | 755.9  | 800.7  |
| 50°    | 844.3  | 694.4  | 543.2  | 407.4  | 534.3  | 539.4  | 617.5  | 704.7  | 704.7  | 713.6  | 761.0  |
| 52.5°  | 758.5  | 631.6  | 493.3  | 369.0  | 479.2  | 494.5  | 562.4  | 663.7  | 666.2  | 675.2  | 717.5  |
| 55°    | 680.3  | 566.3  | 457.4  | 339.5  | 413.8  | 447.1  | 508.6  | 621.4  | 626.5  | 635.5  | 673.9  |
| 57.5°  | 608.6  | 471.5  | 449.7  | 304.9  | 353.6  | 385.6  | 461.2  | 580.4  | 582.9  | 590.6  | 627.8  |
| 60°    | 531.7  | 340.8  | 412.5  | 267.8  | 301.1  | 325.4  | 417.7  | 531.7  | 540.7  | 545.8  | 577.8  |
| 62.5°  | 444.6  | 247.3  | 374.1  | 242.1  | 275.5  | 280.6  | 381.8  | 485.6  | 497.1  | 500.9  | 520.2  |
| 65°    | 316.5  | 207.6  | 317.7  | 220.4  | 248.6  | 249.8  | 343.4  | 438.2  | 448.4  | 454.8  | 468.9  |
| 67.5°  | 214.0  | 169.1  | 242.1  | 199.9  | 228.1  | 229.3  | 306.2  | 383.1  | 397.2  | 402.3  | 411.3  |
| 70°    | 148.6  | 112.7  | 179.4  | 178.1  | 205.0  | 207.6  | 266.5  | 333.1  | 345.9  | 349.8  | 354.9  |
| 72.5°  | 108.9  | 91.0   | 148.6  | 160.1  | 180.6  | 183.2  | 225.5  | 276.7  | 289.5  | 293.4  | 296.0  |
| 75°    | 83.3   | 96.1   | 120.4  | 139.6  | 153.7  | 155.0  | 184.5  | 225.5  | 234.5  | 237.0  | 238.3  |
| 77.5°  | 66.6   | 89.7   | 88.4   | 112.7  | 125.6  | 123.0  | 144.8  | 174.2  | 181.9  | 181.9  | 181.9  |
| 80°    | 50.0   | 70.5   | 66.6   | 80.7   | 92.2   | 89.7   | 103.8  | 124.3  | 126.8  | 129.4  | 128.1  |
| 82.5°  | 37.2   | 44.8   | 44.8   | 51.2   | 61.5   | 58.9   | 69.2   | 80.7   | 80.7   | 80.7   | 83.3   |
| 85°    | 23.1   | 25.6   | 20.5   | 26.9   | 34.6   | 33.3   | 38.4   | 43.6   | 44.8   | 44.8   | 42.3   |
| 87.5°  | 14.1   | 11.5   | 6.4    | 10.2   | 15.4   | 15.4   | 17.9   | 19.2   | 17.9   | 17.9   | 17.9   |
| 90°    | 6.9    | 4.8    | 2.6    | 4.8    | 6.9    | 7.4    | 11.6   | 17.3   | 20.1   | 17.9   | 13.3   |
| 92.5°  | 46.5   | 28.5   | 10.6   | 28.5   | 46.5   | 51.0   | 71.7   | 99.2   | 113.0  | 99.0   | 71.1   |
| 95°    | 91.1   | 58.2   | 25.4   | 58.2   | 91.1   | 99.2   | 176.3  | 279.0  | 330.4  | 294.8  | 223.7  |
| 97.5°  | 101.8  | 72.9   | 43.8   | 72.9   | 101.8  | 109.1  | 237.5  | 408.8  | 494.4  | 471.9  | 426.9  |
| 100°   | 110.7  | 84.4   | 58.1   | 84.4   | 110.7  | 117.3  | 259.7  | 449.8  | 544.8  | 546.4  | 549.7  |
| 102.5° | 119.3  | 94.8   | 70.2   | 94.8   | 119.3  | 125.5  | 270.0  | 462.7  | 559.0  | 587.6  | 645.0  |
| 105°   | 132.4  | 111.6  | 90.9   | 111.6  | 132.4  | 137.6  | 277.5  | 464.1  | 557.4  | 621.6  | 750.0  |
| 107.5° | 150.7  | 131.4  | 112.0  | 131.4  | 150.7  | 155.5  | 279.0  | 443.5  | 525.7  | 615.2  | 794.3  |
| 110°   | 161.2  | 143.7  | 126.2  | 143.7  | 161.2  | 165.5  | 276.8  | 425.2  | 499.3  | 599.4  | 799.7  |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 173.6 | 156.9 | 140.2 | 156.9 | 173.6 | 177.7  | 276.9 | 409.2 | 475.3 | 577.8 | 782.7 |
| 115°   | 192.1 | 176.7 | 161.3 | 176.7 | 192.1 | 195.9  | 279.5 | 390.8 | 446.5 | 545.3 | 742.7 |
| 117.5° | 210.1 | 196.2 | 182.2 | 196.2 | 210.1 | 213.6  | 284.7 | 379.4 | 426.7 | 515.8 | 694.0 |
| 120°   | 220.6 | 207.5 | 194.3 | 207.5 | 220.6 | 224.0  | 288.9 | 375.5 | 418.8 | 500.2 | 663.0 |
| 122.5° | 232.7 | 219.5 | 206.3 | 219.5 | 232.7 | 236.1  | 294.9 | 373.4 | 412.7 | 486.0 | 632.7 |
| 125°   | 248.6 | 236.5 | 224.5 | 236.5 | 248.6 | 251.6  | 303.1 | 371.8 | 406.1 | 468.4 | 592.9 |
| 127.5° | 263.7 | 251.5 | 239.2 | 251.5 | 263.7 | 266.7  | 311.3 | 370.9 | 400.6 | 454.1 | 560.9 |
| 130°   | 273.5 | 260.3 | 247.2 | 260.3 | 273.5 | 276.7  | 317.3 | 371.4 | 398.5 | 446.0 | 541.3 |
| 132.5° | 281.7 | 268.5 | 255.4 | 268.5 | 281.7 | 284.9  | 322.2 | 371.8 | 396.7 | 439.3 | 524.4 |
| 135°   | 291.4 | 279.5 | 267.5 | 279.5 | 291.4 | 294.4  | 327.5 | 371.5 | 393.5 | 429.2 | 500.5 |
| 137.5° | 303.6 | 291.8 | 279.9 | 291.8 | 303.6 | 306.5  | 335.3 | 373.7 | 392.9 | 423.0 | 483.4 |
| 140°   | 312.0 | 301.2 | 290.2 | 301.2 | 312.0 | 314.7  | 340.2 | 374.1 | 391.1 | 417.2 | 469.3 |
| 142.5° | 318.2 | 308.2 | 298.1 | 308.2 | 318.2 | 320.8  | 344.2 | 375.5 | 391.1 | 414.0 | 459.7 |
| 145°   | 327.9 | 319.1 | 310.3 | 319.1 | 327.9 | 330.1  | 349.6 | 375.5 | 388.5 | 407.2 | 444.6 |
| 147.5° | 339.6 | 331.0 | 322.4 | 331.0 | 339.6 | 341.7  | 357.3 | 378.0 | 388.5 | 403.1 | 432.6 |
| 150°   | 345.8 | 338.1 | 330.4 | 338.1 | 345.8 | 347.8  | 361.4 | 379.4 | 388.5 | 400.9 | 425.8 |
| 152.5° | 350.3 | 344.4 | 338.5 | 344.4 | 350.3 | 351.7  | 363.9 | 380.3 | 388.5 | 399.0 | 420.3 |
| 155°   | 359.3 | 355.1 | 350.7 | 355.1 | 359.3 | 360.4  | 369.8 | 382.2 | 388.5 | 396.9 | 413.8 |
| 157.5° | 368.1 | 363.9 | 359.7 | 363.9 | 368.1 | 369.2  | 375.6 | 384.2 | 388.5 | 395.0 | 408.2 |
| 160°   | 372.2 | 369.0 | 365.7 | 369.0 | 372.2 | 373.1  | 378.2 | 385.0 | 388.5 | 394.1 | 405.4 |
| 162.5° | 376.8 | 374.3 | 371.8 | 374.3 | 376.8 | 377.4  | 381.0 | 386.0 | 388.5 | 393.2 | 402.7 |
| 165°   | 382.8 | 380.6 | 378.4 | 380.6 | 382.8 | 383.4  | 385.1 | 387.3 | 388.5 | 391.9 | 398.6 |
| 167.5° | 386.6 | 385.5 | 384.4 | 385.5 | 386.6 | 386.8  | 388.3 | 390.2 | 391.1 | 393.3 | 397.8 |
| 170°   | 390.6 | 389.5 | 388.5 | 389.5 | 390.6 | 390.8  | 390.9 | 391.0 | 391.1 | 393.3 | 397.8 |
| 172.5° | 391.0 | 390.8 | 390.6 | 390.8 | 391.0 | 391.1  | 391.1 | 391.1 | 391.1 | 392.8 | 396.3 |
| 175°   | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5  | 392.7 | 391.6 | 391.1 | 392.2 | 394.4 |
| 177.5° | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5  | 392.9 | 392.0 | 391.6 | 392.5 | 394.3 |
| 180°   | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 | 393.5  | 393.5 | 393.5 | 393.5 | 393.5 | 393.5 |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°   | 310°   | 315°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 |
| 2.5°   | 1306.8 | 1303.0 | 1308.1 | 1294.0 | 1308.1 | 1303.0 | 1306.8 | 1315.8 | 1308.1 | 1313.2 | 1318.3 |
| 5°     | 1146.7 | 1140.3 | 1119.8 | 1103.1 | 1119.8 | 1140.3 | 1146.7 | 1173.6 | 1186.4 | 1209.4 | 1240.2 |
| 7.5°   | 1025.0 | 1019.8 | 1014.7 | 1004.5 | 1014.7 | 1019.8 | 1025.0 | 1032.6 | 1045.5 | 1066.0 | 1089.0 |
| 10°    | 998.0  | 999.3  | 1007.0 | 1005.7 | 1007.0 | 999.3  | 998.0  | 995.5  | 991.6  | 995.5  | 1009.6 |
| 12.5°  | 1067.2 | 1078.8 | 1121.0 | 1118.5 | 1121.0 | 1078.8 | 1067.2 | 1016.0 | 981.4  | 975.0  | 977.5  |
| 15°    | 1146.7 | 1150.5 | 1159.5 | 1160.8 | 1159.5 | 1150.5 | 1146.7 | 1126.2 | 1022.4 | 977.5  | 963.5  |
| 17.5°  | 1154.4 | 1155.6 | 1162.0 | 1162.0 | 1162.0 | 1155.6 | 1154.4 | 1145.4 | 1110.8 | 1050.6 | 971.1  |
| 20°    | 1147.9 | 1150.5 | 1163.3 | 1165.9 | 1163.3 | 1150.5 | 1147.9 | 1136.4 | 1117.2 | 1095.4 | 1035.2 |
| 22.5°  | 1145.4 | 1150.5 | 1160.8 | 1159.5 | 1160.8 | 1150.5 | 1145.4 | 1127.4 | 1110.8 | 1095.4 | 1071.1 |
| 25°    | 1132.6 | 1132.6 | 1133.9 | 1135.1 | 1133.9 | 1132.6 | 1132.6 | 1118.5 | 1085.2 | 1081.3 | 1067.2 |
| 27.5°  | 1105.7 | 1108.2 | 1115.9 | 1114.6 | 1115.9 | 1108.2 | 1105.7 | 1100.5 | 1064.7 | 1060.8 | 1050.6 |
| 30°    | 1081.3 | 1078.8 | 1072.4 | 1067.2 | 1072.4 | 1078.8 | 1081.3 | 1073.6 | 1037.8 | 1027.5 | 1030.1 |
| 32.5°  | 1040.3 | 1033.9 | 1027.5 | 1023.7 | 1027.5 | 1033.9 | 1040.3 | 1037.8 | 1010.9 | 996.8  | 999.3  |
| 35°    | 991.6  | 992.9  | 991.6  | 987.8  | 991.6  | 992.9  | 991.6  | 994.2  | 977.5  | 964.7  | 963.5  |
| 37.5°  | 957.1  | 959.6  | 958.3  | 953.2  | 958.3  | 959.6  | 957.1  | 954.5  | 931.4  | 927.6  | 930.1  |
| 40°    | 921.2  | 922.5  | 921.2  | 917.3  | 921.2  | 922.5  | 921.2  | 916.1  | 884.0  | 885.3  | 894.3  |
| 42.5°  | 886.6  | 885.3  | 881.5  | 878.9  | 881.5  | 885.3  | 886.6  | 878.9  | 837.9  | 834.1  | 850.7  |
| 45°    | 846.9  | 848.1  | 840.5  | 836.6  | 840.5  | 848.1  | 846.9  | 841.7  | 799.5  | 789.2  | 800.7  |
| 47.5°  | 807.2  | 807.2  | 800.7  | 796.9  | 800.7  | 807.2  | 807.2  | 800.7  | 755.9  | 745.7  | 752.1  |
| 50°    | 764.9  | 763.6  | 754.6  | 753.3  | 754.6  | 763.6  | 764.9  | 761.0  | 713.6  | 704.7  | 704.7  |
| 52.5°  | 716.2  | 716.2  | 717.5  | 720.0  | 717.5  | 716.2  | 716.2  | 717.5  | 675.2  | 666.2  | 663.7  |
| 55°    | 673.9  | 675.2  | 684.2  | 686.7  | 684.2  | 675.2  | 673.9  | 673.9  | 635.5  | 626.5  | 621.4  |
| 57.5°  | 630.3  | 630.3  | 636.8  | 636.8  | 636.8  | 630.3  | 630.3  | 627.8  | 590.6  | 582.9  | 580.4  |
| 60°    | 580.4  | 582.9  | 588.1  | 586.8  | 588.1  | 582.9  | 580.4  | 577.8  | 545.8  | 540.7  | 531.7  |
| 62.5°  | 527.9  | 530.4  | 531.7  | 529.1  | 531.7  | 530.4  | 527.9  | 520.2  | 500.9  | 497.1  | 485.6  |
| 65°    | 472.8  | 475.3  | 476.6  | 474.0  | 476.6  | 475.3  | 472.8  | 468.9  | 454.8  | 448.4  | 438.2  |
| 67.5°  | 416.4  | 415.1  | 413.8  | 418.9  | 413.8  | 415.1  | 416.4  | 411.3  | 402.3  | 397.2  | 383.1  |
| 70°    | 358.7  | 358.7  | 357.5  | 360.0  | 357.5  | 358.7  | 358.7  | 354.9  | 349.8  | 345.9  | 333.1  |
| 72.5°  | 297.2  | 296.0  | 301.1  | 297.2  | 301.1  | 296.0  | 297.2  | 296.0  | 293.4  | 289.5  | 276.7  |
| 75°    | 237.0  | 239.6  | 237.0  | 240.9  | 237.0  | 239.6  | 237.0  | 238.3  | 237.0  | 234.5  | 225.5  |
| 77.5°  | 180.6  | 183.2  | 180.6  | 180.6  | 180.6  | 183.2  | 180.6  | 181.9  | 181.9  | 181.9  | 174.2  |
| 80°    | 128.1  | 126.8  | 126.8  | 125.6  | 126.8  | 126.8  | 128.1  | 128.1  | 129.4  | 126.8  | 124.3  |
| 82.5°  | 82.0   | 80.7   | 80.7   | 83.3   | 80.7   | 80.7   | 82.0   | 83.3   | 80.7   | 80.7   | 80.7   |
| 85°    | 44.8   | 46.1   | 43.6   | 43.6   | 43.6   | 46.1   | 44.8   | 42.3   | 44.8   | 44.8   | 43.6   |
| 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°    | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 13.3   | 17.9   | 20.1   | 17.3   |
| 92.5°  | 50.1   | 48.2   | 40.1   | 32.2   | 40.1   | 48.2   | 50.1   | 71.1   | 99.0   | 113.0  | 99.2   |
| 95°    | 170.3  | 164.2  | 140.1  | 115.9  | 140.1  | 164.2  | 170.3  | 223.7  | 294.8  | 330.4  | 279.0  |
| 97.5°  | 393.2  | 381.6  | 335.7  | 289.7  | 335.7  | 381.6  | 393.2  | 426.9  | 471.9  | 494.4  | 408.8  |
| 100°   | 552.2  | 538.5  | 483.7  | 428.9  | 483.7  | 538.5  | 552.2  | 549.7  | 546.4  | 544.8  | 449.8  |
| 102.5° | 687.9  | 676.2  | 629.2  | 582.3  | 629.2  | 676.2  | 687.9  | 645.0  | 587.6  | 559.0  | 462.7  |
| 105°   | 846.4  | 840.0  | 814.8  | 789.6  | 814.8  | 840.0  | 846.4  | 750.0  | 621.6  | 557.4  | 464.1  |
| 107.5° | 928.7  | 930.2  | 936.3  | 942.4  | 936.3  | 930.2  | 928.7  | 794.3  | 615.2  | 525.7  | 443.5  |
| 110°   | 949.9  | 956.5  | 982.7  | 1009.0 | 982.7  | 956.5  | 949.9  | 799.7  | 599.4  | 499.3  | 425.2  |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°  | 270°   | 280°  | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| 112.5° | 936.4  | 946.5 | 986.9 | 1027.2 | 986.9 | 946.5 | 936.4  | 782.7 | 577.8 | 475.3 | 409.2 |
| 115°   | 890.7  | 904.7 | 960.6 | 1016.7 | 960.6 | 904.7 | 890.7  | 742.7 | 545.3 | 446.5 | 390.8 |
| 117.5° | 827.6  | 843.1 | 905.2 | 967.3  | 905.2 | 843.1 | 827.6  | 694.0 | 515.8 | 426.7 | 379.4 |
| 120°   | 785.0  | 800.1 | 860.4 | 920.8  | 860.4 | 800.1 | 785.0  | 663.0 | 500.2 | 418.8 | 375.5 |
| 122.5° | 742.6  | 757.4 | 817.0 | 876.4  | 817.0 | 757.4 | 742.6  | 632.7 | 486.0 | 412.7 | 373.4 |
| 125°   | 686.3  | 700.0 | 754.8 | 809.6  | 754.8 | 700.0 | 686.3  | 592.9 | 468.4 | 406.1 | 371.8 |
| 127.5° | 641.1  | 652.6 | 698.9 | 745.2  | 698.9 | 652.6 | 641.1  | 560.9 | 454.1 | 400.6 | 370.9 |
| 130°   | 612.7  | 623.3 | 666.0 | 708.8  | 666.0 | 623.3 | 612.7  | 541.3 | 446.0 | 398.5 | 371.4 |
| 132.5° | 588.3  | 597.9 | 636.2 | 674.4  | 636.2 | 597.9 | 588.3  | 524.4 | 439.3 | 396.7 | 371.8 |
| 135°   | 554.0  | 562.3 | 595.2 | 628.2  | 595.2 | 562.3 | 554.0  | 500.5 | 429.2 | 393.5 | 371.5 |
| 137.5° | 528.6  | 535.4 | 562.4 | 589.4  | 562.4 | 535.4 | 528.6  | 483.4 | 423.0 | 392.9 | 373.7 |
| 140°   | 508.3  | 514.6 | 539.8 | 565.1  | 539.8 | 514.6 | 508.3  | 469.3 | 417.2 | 391.1 | 374.1 |
| 142.5° | 494.0  | 499.5 | 521.2 | 542.9  | 521.2 | 499.5 | 494.0  | 459.7 | 414.0 | 391.1 | 375.5 |
| 145°   | 472.7  | 476.8 | 493.3 | 509.7  | 493.3 | 476.8 | 472.7  | 444.6 | 407.2 | 388.5 | 375.5 |
| 147.5° | 454.7  | 458.2 | 471.7 | 485.3  | 471.7 | 458.2 | 454.7  | 432.6 | 403.1 | 388.5 | 378.0 |
| 150°   | 444.4  | 447.1 | 458.2 | 469.3  | 458.2 | 447.1 | 444.4  | 425.8 | 400.9 | 388.5 | 379.4 |
| 152.5° | 436.2  | 438.3 | 446.6 | 455.0  | 446.6 | 438.3 | 436.2  | 420.3 | 399.0 | 388.5 | 380.3 |
| 155°   | 426.5  | 427.8 | 433.4 | 438.9  | 433.4 | 427.8 | 426.5  | 413.8 | 396.9 | 388.5 | 382.2 |
| 157.5° | 418.0  | 418.9 | 422.9 | 426.7  | 422.9 | 418.9 | 418.0  | 408.2 | 395.0 | 388.5 | 384.2 |
| 160°   | 413.8  | 414.3 | 416.6 | 418.8  | 416.6 | 414.3 | 413.8  | 405.4 | 394.1 | 388.5 | 385.0 |
| 162.5° | 409.8  | 410.3 | 412.5 | 414.6  | 412.5 | 410.3 | 409.8  | 402.7 | 393.2 | 388.5 | 386.0 |
| 165°   | 403.7  | 404.3 | 406.6 | 408.8  | 406.6 | 404.3 | 403.7  | 398.6 | 391.9 | 388.5 | 387.3 |
| 167.5° | 401.1  | 401.4 | 402.3 | 403.2  | 402.3 | 401.4 | 401.1  | 397.8 | 393.3 | 391.1 | 390.2 |
| 170°   | 401.1  | 401.1 | 401.1 | 401.1  | 401.1 | 401.1 | 401.1  | 397.8 | 393.3 | 391.1 | 391.0 |
| 172.5° | 399.0  | 398.8 | 397.9 | 397.2  | 397.9 | 398.8 | 399.0  | 396.3 | 392.8 | 391.1 | 391.1 |
| 175°   | 396.1  | 396.1 | 396.1 | 396.1  | 396.1 | 396.1 | 396.1  | 394.4 | 392.2 | 391.1 | 391.6 |
| 177.5° | 395.5  | 395.3 | 394.4 | 393.5  | 394.4 | 395.3 | 395.5  | 394.3 | 392.5 | 391.6 | 392.0 |
| 180°   | 393.5  | 393.5 | 393.5 | 393.5  | 393.5 | 393.5 | 393.5  | 393.5 | 393.5 | 393.5 | 393.5 |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 337.5° | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 |
| 2.5°   | 1337.6 | 1344.0 | 1347.8 | 1352.9 | 1365.8 |
| 5°     | 1286.3 | 1310.7 | 1318.3 | 1337.6 | 1360.6 |
| 7.5°   | 1173.6 | 1247.9 | 1268.4 | 1314.5 | 1350.4 |
| 10°    | 1064.7 | 1139.0 | 1174.9 | 1283.8 | 1337.6 |
| 12.5°  | 1009.6 | 1053.1 | 1077.5 | 1229.9 | 1319.6 |
| 15°    | 975.0  | 1005.7 | 1023.7 | 1158.2 | 1299.1 |
| 17.5°  | 948.1  | 969.9  | 982.7  | 1087.7 | 1270.9 |
| 20°    | 931.4  | 941.7  | 953.2  | 1036.5 | 1238.9 |
| 22.5°  | 919.9  | 913.5  | 922.5  | 1000.6 | 1195.4 |
| 25°    | 912.2  | 887.9  | 898.1  | 972.4  | 1144.1 |
| 27.5°  | 918.6  | 864.8  | 868.6  | 946.8  | 1090.3 |
| 30°    | 919.9  | 836.6  | 837.9  | 919.9  | 1030.1 |
| 32.5°  | 910.9  | 807.2  | 808.4  | 886.6  | 962.2  |
| 35°    | 889.1  | 772.6  | 771.3  | 848.1  | 869.9  |
| 37.5°  | 859.7  | 735.4  | 735.4  | 805.9  | 768.7  |
| 40°    | 823.8  | 698.2  | 702.1  | 750.8  | 679.0  |
| 42.5°  | 780.2  | 658.5  | 663.7  | 677.8  | 612.4  |
| 45°    | 732.8  | 620.1  | 623.9  | 572.7  | 561.2  |
| 47.5°  | 680.3  | 580.4  | 581.7  | 475.3  | 544.5  |
| 50°    | 617.5  | 539.4  | 534.3  | 407.4  | 543.2  |
| 52.5°  | 562.4  | 494.5  | 479.2  | 369.0  | 493.3  |
| 55°    | 508.6  | 447.1  | 413.8  | 339.5  | 457.4  |
| 57.5°  | 461.2  | 385.6  | 353.6  | 304.9  | 449.7  |
| 60°    | 417.7  | 325.4  | 301.1  | 267.8  | 412.5  |
| 62.5°  | 381.8  | 280.6  | 275.5  | 242.1  | 374.1  |
| 65°    | 343.4  | 249.8  | 248.6  | 220.4  | 317.7  |
| 67.5°  | 306.2  | 229.3  | 228.1  | 199.9  | 242.1  |
| 70°    | 266.5  | 207.6  | 205.0  | 178.1  | 179.4  |
| 72.5°  | 225.5  | 183.2  | 180.6  | 160.1  | 148.6  |
| 75°    | 184.5  | 155.0  | 153.7  | 139.6  | 120.4  |
| 77.5°  | 144.8  | 123.0  | 125.6  | 112.7  | 88.4   |
| 80°    | 103.8  | 89.7   | 92.2   | 80.7   | 66.6   |
| 82.5°  | 69.2   | 58.9   | 61.5   | 51.2   | 44.8   |
| 85°    | 38.4   | 33.3   | 34.6   | 26.9   | 20.5   |
| 87.5°  | 17.9   | 15.4   | 15.4   | 10.2   | 6.4    |
| 90°    | 11.6   | 7.4    | 6.9    | 4.8    | 2.6    |
| 92.5°  | 71.7   | 51.0   | 46.5   | 28.5   | 10.6   |
| 95°    | 176.3  | 99.2   | 91.1   | 58.2   | 25.4   |
| 97.5°  | 237.5  | 109.1  | 101.8  | 72.9   | 43.8   |
| 100°   | 259.7  | 117.3  | 110.7  | 84.4   | 58.1   |
| 102.5° | 270.0  | 125.5  | 119.3  | 94.8   | 70.2   |
| 105°   | 277.5  | 137.6  | 132.4  | 111.6  | 90.9   |
| 107.5° | 279.0  | 155.5  | 150.7  | 131.4  | 112.0  |
| 110°   | 276.8  | 165.5  | 161.2  | 143.7  | 126.2  |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 276.9 | 177.7  | 173.6 | 156.9 | 140.2 |
| 115°   | 279.5 | 195.9  | 192.1 | 176.7 | 161.3 |
| 117.5° | 284.7 | 213.6  | 210.1 | 196.2 | 182.2 |
| 120°   | 288.9 | 224.0  | 220.6 | 207.5 | 194.3 |
| 122.5° | 294.9 | 236.1  | 232.7 | 219.5 | 206.3 |
| 125°   | 303.1 | 251.6  | 248.6 | 236.5 | 224.5 |
| 127.5° | 311.3 | 266.7  | 263.7 | 251.5 | 239.2 |
| 130°   | 317.3 | 276.7  | 273.5 | 260.3 | 247.2 |
| 132.5° | 322.2 | 284.9  | 281.7 | 268.5 | 255.4 |
| 135°   | 327.5 | 294.4  | 291.4 | 279.5 | 267.5 |
| 137.5° | 335.3 | 306.5  | 303.6 | 291.8 | 279.9 |
| 140°   | 340.2 | 314.7  | 312.0 | 301.2 | 290.2 |
| 142.5° | 344.2 | 320.8  | 318.2 | 308.2 | 298.1 |
| 145°   | 349.6 | 330.1  | 327.9 | 319.1 | 310.3 |
| 147.5° | 357.3 | 341.7  | 339.6 | 331.0 | 322.4 |
| 150°   | 361.4 | 347.8  | 345.8 | 338.1 | 330.4 |
| 152.5° | 363.9 | 351.7  | 350.3 | 344.4 | 338.5 |
| 155°   | 369.8 | 360.4  | 359.3 | 355.1 | 350.7 |
| 157.5° | 375.6 | 369.2  | 368.1 | 363.9 | 359.7 |
| 160°   | 378.2 | 373.1  | 372.2 | 369.0 | 365.7 |
| 162.5° | 381.0 | 377.4  | 376.8 | 374.3 | 371.8 |
| 165°   | 385.1 | 383.4  | 382.8 | 380.6 | 378.4 |
| 167.5° | 388.3 | 386.8  | 386.6 | 385.5 | 384.4 |
| 170°   | 390.9 | 390.8  | 390.6 | 389.5 | 388.5 |
| 172.5° | 391.1 | 391.1  | 391.0 | 390.8 | 390.6 |
| 175°   | 392.7 | 393.5  | 393.5 | 393.5 | 393.5 |
| 177.5° | 392.9 | 393.5  | 393.5 | 393.5 | 393.5 |
| 180°   | 393.5 | 393.5  | 393.5 | 393.5 | 393.5 |



TEST NUMBER: P934337

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-2700K

**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 | 12.89            | 13.83 | 13.78 | 14.73 | 15.89 | 15.71          | 16.65 | 16.60 | 17.56 | 18.71 |
|                 | 3H   | 13.37            | 14.21 | 14.27 | 15.13 | 16.31 | 17.06          | 17.90 | 17.96 | 18.82 | 20.00 |
|                 | 4H   | 13.57            | 14.36 | 14.48 | 15.28 | 16.47 | 17.51          | 18.30 | 18.42 | 19.23 | 20.41 |
|                 | 6H   | 13.69            | 14.42 | 14.62 | 15.35 | 16.55 | 17.80          | 18.53 | 18.72 | 19.46 | 20.66 |
|                 | 8H   | 13.69            | 14.39 | 14.63 | 15.34 | 16.54 | 17.87          | 18.57 | 18.81 | 19.52 | 20.72 |
|                 | 12H  | 13.67            | 14.33 | 14.61 | 15.27 | 16.49 | 17.91          | 18.58 | 18.85 | 19.52 | 20.74 |
| 4H              | 2H   | 13.93            | 14.72 | 14.85 | 15.65 | 16.83 | 16.13          | 16.93 | 17.05 | 17.85 | 19.04 |
|                 | 3H   | 14.96            | 15.63 | 15.89 | 16.58 | 17.78 | 17.64          | 18.31 | 18.57 | 19.26 | 20.46 |
|                 | 4H   | 15.24            | 15.85 | 16.18 | 16.79 | 18.02 | 18.17          | 18.78 | 19.11 | 19.72 | 20.95 |
|                 | 6H   | 15.37            | 15.89 | 16.33 | 16.86 | 18.09 | 18.54          | 19.06 | 19.50 | 20.03 | 21.26 |
|                 | 8H   | 15.38            | 15.87 | 16.34 | 16.83 | 18.07 | 18.65          | 19.14 | 19.61 | 20.10 | 21.34 |
|                 | 12H  | 15.35            | 15.79 | 16.33 | 16.77 | 18.02 | 18.71          | 19.15 | 19.68 | 20.13 | 21.38 |
| 8H              | 4H   | 15.70            | 16.19 | 16.66 | 17.15 | 18.40 | 18.30          | 18.79 | 19.26 | 19.76 | 21.00 |
|                 | 6H   | 15.97            | 16.37 | 16.95 | 17.38 | 18.62 | 18.74          | 19.15 | 19.72 | 20.15 | 21.39 |
|                 | 8H   | 16.01            | 16.37 | 17.00 | 17.36 | 18.62 | 18.89          | 19.25 | 19.89 | 20.25 | 21.50 |
|                 | 12H  | 16.00            | 16.31 | 16.99 | 17.30 | 18.61 | 19.00          | 19.31 | 19.99 | 20.30 | 21.60 |
| 12H             | 4H   | 15.71            | 16.15 | 16.69 | 17.13 | 18.38 | 18.27          | 18.71 | 19.25 | 19.69 | 20.94 |
|                 | 6H   | 16.03            | 16.38 | 17.02 | 17.38 | 18.64 | 18.74          | 19.10 | 19.73 | 20.09 | 21.35 |
|                 | 8H   | 16.10            | 16.41 | 17.09 | 17.40 | 18.71 | 18.90          | 19.22 | 19.90 | 20.21 | 21.51 |