

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: P933963

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933963
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

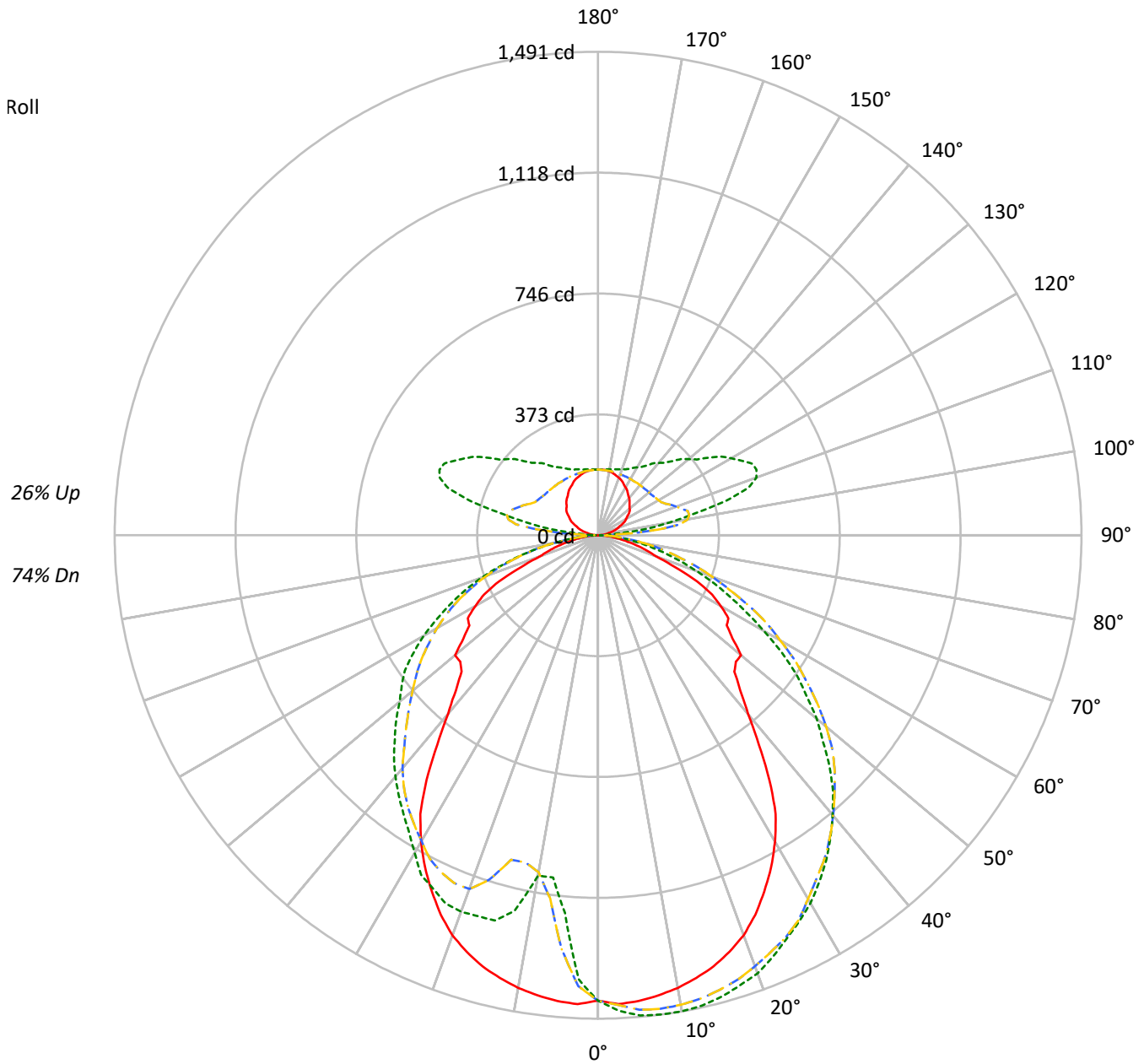
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5035.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
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: P933963
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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 87 | 87 | 87 | 78 | 78 | 78 | 74 |
| 1 | 103 | 99 | 95 | 91 | 98 | 94 | 90 | 87 | 85 | 82 | 80 | 77 | 75 | 73 | 69 | 68 | 66 | 62 |
| 2 | 94 | 86 | 80 | 75 | 89 | 82 | 77 | 72 | 75 | 70 | 66 | 68 | 64 | 61 | 61 | 58 | 56 | 52 |
| 3 | 86 | 76 | 68 | 62 | 81 | 72 | 66 | 60 | 66 | 60 | 56 | 60 | 55 | 52 | 54 | 51 | 48 | 44 |
| 4 | 79 | 67 | 59 | 53 | 74 | 64 | 57 | 51 | 59 | 52 | 48 | 53 | 48 | 44 | 48 | 44 | 41 | 38 |
| 5 | 72 | 60 | 52 | 45 | 68 | 57 | 50 | 44 | 52 | 46 | 41 | 48 | 42 | 38 | 43 | 39 | 36 | 33 |
| 6 | 67 | 54 | 46 | 39 | 63 | 52 | 44 | 38 | 47 | 41 | 36 | 43 | 38 | 34 | 39 | 35 | 31 | 29 |
| 7 | 62 | 49 | 41 | 35 | 58 | 47 | 39 | 34 | 43 | 36 | 32 | 39 | 34 | 30 | 36 | 31 | 28 | 26 |
| 8 | 57 | 44 | 36 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 36 | 31 | 27 | 33 | 28 | 25 | 23 |
| 9 | 53 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 25 | 33 | 28 | 24 | 30 | 26 | 23 | 21 |
| 10 | 50 | 37 | 30 | 25 | 48 | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 25 | 22 | 28 | 24 | 20 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 8878 | 8878 | 8878 | 8878 |
| 5° | 8941 | 8962 | 8941 | 7047 |
| 10° | 8878 | 8828 | 8878 | 6311 |
| 15° | 8778 | 8636 | 8778 | 7212 |
| 20° | 8591 | 8410 | 8591 | 7227 |
| 25° | 8212 | 8079 | 8212 | 7074 |
| 30° | 7723 | 7805 | 7723 | 6738 |
| 35° | 6882 | 7458 | 6882 | 6368 |
| 40° | 5731 | 7050 | 5731 | 6088 |
| 45° | 5117 | 6572 | 5117 | 5768 |
| 50° | 5433 | 6001 | 5433 | 5446 |
| 55° | 5106 | 5387 | 5106 | 5259 |
| 60° | 5257 | 4575 | 5257 | 4816 |
| 65° | 4758 | 3782 | 4758 | 4228 |
| 70° | 3288 | 3014 | 3288 | 3543 |
| 75° | 2871 | 2228 | 2871 | 2668 |
| 80° | 2298 | 1473 | 2298 | 1604 |
| 85° | 1294 | 780 | 1294 | 664 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7848 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.5 | 2.6 |
| 10°-20° | 367.8 | 7.3 |
| 20°-30° | 568.6 | 11.3 |
| 30°-40° | 678.8 | 13.5 |
| 40°-50° | 682.7 | 13.6 |
| 50°-60° | 594.1 | 11.8 |
| 60°-70° | 421.2 | 8.4 |
| 70°-80° | 222.8 | 4.4 |
| 80°-90° | 56.3 | 1.1 |
| 90°-100° | 98.7 | 2.0 |
| 100°-110° | 259.7 | 5.2 |
| 110°-120° | 269.2 | 5.3 |
| 120°-130° | 216.0 | 4.3 |
| 130°-140° | 169.5 | 3.4 |
| 140°-150° | 130.1 | 2.6 |
| 150°-160° | 93.7 | 1.9 |
| 160°-170° | 57.3 | 1.1 |
| 170°-180° | 19.4 | 0.4 |
| 0°-30° | 1065.9 | 21.2 |
| 0°-40° | 1744.7 | 34.6 |
| 0°-60° | 3021.5 | 60.0 |
| 0°-90° | 3721.8 | 73.9 |
| 90°-120° | 627.7 | 12.5 |
| 90°-150° | 1143.2 | 22.7 |
| 90°-180° | 1313.0 | 26.1 |
| 0°-180° | 5035.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1435 | 1435 | 1435 | 1435 | 1435 | |
| 5° | 1442 | 1487 | 1442 | 1169 | 1442 | 137 |
| 15° | 1377 | 1473 | 1377 | 1230 | 1377 | 387 |
| 25° | 1212 | 1374 | 1212 | 1203 | 1212 | 557 |
| 35° | 922 | 1226 | 922 | 1047 | 922 | 570 |
| 45° | 595 | 1010 | 595 | 887 | 595 | 476 |
| 55° | 485 | 745 | 485 | 728 | 485 | 445 |
| 65° | 337 | 449 | 337 | 502 | 337 | 322 |
| 75° | 128 | 213 | 128 | 255 | 128 | 134 |
| 85° | 22 | 54 | 22 | 46 | 22 | 29 |
| 90° | 1 | 5 | 1 | 5 | 1 | 2 |
| 95° | 13 | 60 | 13 | 60 | 13 | 14 |
| 105° | 47 | 407 | 47 | 407 | 47 | 50 |
| 115° | 83 | 524 | 83 | 524 | 83 | 82 |
| 125° | 116 | 417 | 116 | 417 | 116 | 103 |
| 135° | 138 | 324 | 138 | 324 | 138 | 107 |
| 145° | 160 | 262 | 160 | 262 | 160 | 100 |
| 155° | 181 | 226 | 181 | 226 | 181 | 83 |
| 165° | 195 | 210 | 195 | 210 | 195 | 55 |
| 175° | 203 | 204 | 203 | 204 | 203 | 19 |
| 180° | 203 | 203 | 203 | 203 | 203 | |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5° | 1447.4 | 1447.4 | 1455.5 | 1458.2 | 1458.2 | 1454.1 | 1450.1 | 1454.1 | 1466.4 | 1470.4 | 1469.1 |
| 5° | 1441.9 | 1452.8 | 1467.7 | 1470.4 | 1473.1 | 1471.8 | 1469.1 | 1471.8 | 1485.4 | 1488.1 | 1489.4 |
| 7.5° | 1431.1 | 1451.4 | 1470.4 | 1474.5 | 1478.6 | 1474.5 | 1473.1 | 1475.9 | 1489.4 | 1492.2 | 1492.2 |
| 10° | 1417.5 | 1446.0 | 1467.7 | 1470.4 | 1474.5 | 1470.4 | 1470.4 | 1475.9 | 1489.4 | 1492.2 | 1493.5 |
| 12.5° | 1398.5 | 1437.8 | 1458.2 | 1460.9 | 1466.4 | 1465.0 | 1463.6 | 1469.1 | 1482.7 | 1485.4 | 1485.4 |
| 15° | 1376.7 | 1422.9 | 1441.9 | 1444.6 | 1454.1 | 1451.4 | 1451.4 | 1456.9 | 1471.8 | 1475.9 | 1474.5 |
| 17.5° | 1346.9 | 1403.9 | 1425.6 | 1429.7 | 1436.5 | 1435.1 | 1436.5 | 1441.9 | 1455.5 | 1458.2 | 1459.6 |
| 20° | 1312.9 | 1378.1 | 1403.9 | 1408.0 | 1414.8 | 1414.8 | 1414.8 | 1421.6 | 1435.1 | 1440.6 | 1440.6 |
| 22.5° | 1266.8 | 1351.0 | 1378.1 | 1380.8 | 1389.0 | 1389.0 | 1391.7 | 1401.2 | 1413.4 | 1414.8 | 1414.8 |
| 25° | 1212.5 | 1321.1 | 1344.2 | 1352.3 | 1360.5 | 1364.5 | 1368.6 | 1374.0 | 1378.1 | 1376.7 | 1378.1 |
| 27.5° | 1155.4 | 1283.1 | 1312.9 | 1318.4 | 1329.2 | 1333.3 | 1338.7 | 1340.1 | 1341.4 | 1345.5 | 1342.8 |
| 30° | 1091.6 | 1230.1 | 1274.9 | 1280.4 | 1298.0 | 1300.7 | 1295.3 | 1298.0 | 1304.8 | 1307.5 | 1310.2 |
| 32.5° | 1019.7 | 1151.4 | 1235.5 | 1247.8 | 1264.1 | 1255.9 | 1254.6 | 1258.6 | 1269.5 | 1269.5 | 1272.2 |
| 35° | 921.9 | 1090.3 | 1198.9 | 1209.7 | 1222.0 | 1212.5 | 1217.9 | 1219.3 | 1226.0 | 1230.1 | 1228.8 |
| 37.5° | 814.6 | 1037.3 | 1160.9 | 1169.0 | 1178.5 | 1166.3 | 1174.4 | 1178.5 | 1184.0 | 1181.2 | 1181.2 |
| 40° | 719.6 | 954.5 | 1116.1 | 1121.5 | 1129.6 | 1120.1 | 1128.3 | 1131.0 | 1133.7 | 1131.0 | 1129.6 |
| 42.5° | 649.0 | 863.5 | 1068.5 | 1075.3 | 1069.9 | 1076.7 | 1079.4 | 1084.8 | 1080.8 | 1075.3 | 1075.3 |
| 45° | 594.7 | 839.1 | 1016.9 | 1025.1 | 1016.9 | 1027.8 | 1031.9 | 1031.9 | 1019.7 | 1016.9 | 1015.6 |
| 47.5° | 577.0 | 790.2 | 965.4 | 965.4 | 961.3 | 974.9 | 981.6 | 972.1 | 959.9 | 955.9 | 955.9 |
| 50° | 575.7 | 735.9 | 894.8 | 889.3 | 908.3 | 924.6 | 917.8 | 908.3 | 898.8 | 883.9 | 883.9 |
| 52.5° | 522.7 | 669.4 | 803.8 | 824.1 | 854.0 | 863.5 | 852.7 | 843.2 | 826.9 | 820.1 | 814.6 |
| 55° | 484.7 | 600.1 | 721.0 | 761.7 | 792.9 | 805.1 | 784.8 | 775.3 | 750.8 | 746.8 | 744.0 |
| 57.5° | 476.6 | 499.6 | 644.9 | 696.5 | 734.5 | 733.2 | 721.0 | 703.3 | 682.9 | 678.9 | 677.5 |
| 60° | 437.2 | 361.2 | 563.5 | 624.6 | 663.9 | 659.9 | 649.0 | 632.7 | 613.7 | 611.0 | 608.3 |
| 62.5° | 396.5 | 262.0 | 471.1 | 540.4 | 596.0 | 594.7 | 585.2 | 560.7 | 547.2 | 540.4 | 535.0 |
| 65° | 336.7 | 220.0 | 335.4 | 449.4 | 529.5 | 532.2 | 511.9 | 494.2 | 479.3 | 471.1 | 469.8 |
| 67.5° | 256.6 | 179.2 | 226.7 | 374.7 | 465.7 | 463.0 | 437.2 | 429.0 | 410.0 | 406.0 | 397.8 |
| 70° | 190.1 | 119.5 | 157.5 | 304.1 | 403.2 | 396.5 | 376.1 | 366.6 | 348.9 | 339.4 | 334.0 |
| 72.5° | 157.5 | 96.4 | 115.4 | 236.2 | 339.4 | 331.3 | 313.6 | 302.8 | 287.8 | 279.7 | 274.3 |
| 75° | 127.6 | 101.8 | 88.3 | 175.1 | 275.6 | 270.2 | 253.9 | 243.0 | 230.8 | 220.0 | 221.3 |
| 77.5° | 93.7 | 95.0 | 70.6 | 129.0 | 218.6 | 210.4 | 200.9 | 187.4 | 181.9 | 171.1 | 171.1 |
| 80° | 70.6 | 74.7 | 53.0 | 88.3 | 157.5 | 157.5 | 149.4 | 139.8 | 130.3 | 124.9 | 124.9 |
| 82.5° | 47.5 | 47.5 | 39.4 | 55.7 | 107.3 | 103.2 | 97.8 | 95.0 | 89.6 | 86.9 | 86.9 |
| 85° | 21.7 | 27.2 | 24.4 | 33.9 | 58.4 | 61.1 | 61.1 | 58.4 | 57.0 | 54.3 | 55.7 |
| 87.5° | 6.8 | 12.2 | 14.9 | 19.0 | 29.9 | 31.2 | 32.6 | 32.6 | 32.6 | 33.9 | 33.9 |
| 90° | 1.4 | 2.4 | 3.5 | 3.8 | 6.0 | 8.9 | 10.3 | 9.1 | 6.9 | 5.2 | 5.2 |
| 92.5° | 5.4 | 14.7 | 23.9 | 26.2 | 36.9 | 51.1 | 58.2 | 51.0 | 36.6 | 25.8 | 24.8 |
| 95° | 13.0 | 30.0 | 46.9 | 51.1 | 90.8 | 143.6 | 170.1 | 151.8 | 115.1 | 87.7 | 84.6 |
| 97.5° | 22.5 | 37.5 | 52.4 | 56.1 | 122.3 | 210.4 | 254.5 | 242.9 | 219.9 | 202.5 | 196.6 |
| 100° | 30.0 | 43.4 | 57.0 | 60.4 | 133.8 | 231.6 | 280.5 | 281.3 | 283.0 | 284.3 | 277.3 |
| 102.5° | 36.2 | 48.9 | 61.5 | 64.6 | 139.0 | 238.2 | 287.8 | 302.6 | 332.1 | 354.3 | 348.2 |
| 105° | 46.8 | 57.5 | 68.2 | 70.9 | 142.9 | 239.0 | 287.0 | 320.1 | 386.2 | 435.8 | 432.6 |
| 107.5° | 57.7 | 67.6 | 77.6 | 80.1 | 143.6 | 228.4 | 270.7 | 316.9 | 409.1 | 478.3 | 479.1 |
| 110° | 65.0 | 74.0 | 83.0 | 85.3 | 142.6 | 219.0 | 257.2 | 308.8 | 411.8 | 489.1 | 492.5 |



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CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 72.2 | 80.8 | 89.3 | 91.5 | 142.6 | 210.7 | 244.8 | 297.5 | 403.1 | 482.2 | 487.3 |
| 115° | 83.1 | 91.1 | 98.9 | 100.9 | 143.9 | 201.2 | 229.9 | 280.8 | 382.4 | 458.6 | 465.9 |
| 117.5° | 93.9 | 101.0 | 108.2 | 110.0 | 146.5 | 195.3 | 219.8 | 265.7 | 357.4 | 426.1 | 434.1 |
| 120° | 100.1 | 106.9 | 113.6 | 115.3 | 148.8 | 193.4 | 215.7 | 257.6 | 341.4 | 404.3 | 412.1 |
| 122.5° | 106.2 | 113.1 | 119.8 | 121.6 | 151.9 | 192.3 | 212.5 | 250.3 | 325.8 | 382.4 | 390.1 |
| 125° | 115.6 | 121.8 | 128.1 | 129.6 | 156.1 | 191.5 | 209.2 | 241.2 | 305.4 | 353.5 | 360.5 |
| 127.5° | 123.2 | 129.4 | 135.8 | 137.3 | 160.3 | 191.0 | 206.3 | 233.8 | 288.9 | 330.2 | 336.2 |
| 130° | 127.3 | 134.1 | 140.8 | 142.5 | 163.4 | 191.3 | 205.2 | 229.7 | 278.7 | 315.4 | 321.0 |
| 132.5° | 131.5 | 138.3 | 145.0 | 146.7 | 165.9 | 191.5 | 204.3 | 226.2 | 270.1 | 303.0 | 307.8 |
| 135° | 137.8 | 143.9 | 150.1 | 151.6 | 168.6 | 191.4 | 202.7 | 221.0 | 257.8 | 285.3 | 289.6 |
| 137.5° | 144.2 | 150.3 | 156.3 | 157.9 | 172.7 | 192.5 | 202.4 | 218.0 | 249.0 | 272.3 | 275.7 |
| 140° | 149.4 | 155.1 | 160.7 | 162.1 | 175.2 | 192.7 | 201.4 | 214.8 | 241.7 | 261.8 | 265.0 |
| 142.5° | 153.5 | 158.7 | 163.9 | 165.2 | 177.2 | 193.3 | 201.4 | 213.2 | 236.8 | 254.4 | 257.2 |
| 145° | 159.8 | 164.3 | 168.8 | 170.0 | 180.0 | 193.3 | 200.0 | 209.6 | 228.9 | 243.4 | 245.5 |
| 147.5° | 166.0 | 170.4 | 174.9 | 176.0 | 184.0 | 194.7 | 200.0 | 207.6 | 222.8 | 234.2 | 235.9 |
| 150° | 170.1 | 174.1 | 178.1 | 179.1 | 186.1 | 195.4 | 200.0 | 206.5 | 219.2 | 228.8 | 230.3 |
| 152.5° | 174.3 | 177.3 | 180.4 | 181.1 | 187.5 | 195.9 | 200.0 | 205.5 | 216.4 | 224.7 | 225.7 |
| 155° | 180.6 | 182.8 | 185.1 | 185.6 | 190.4 | 196.9 | 200.0 | 204.4 | 213.1 | 219.6 | 220.3 |
| 157.5° | 185.2 | 187.4 | 189.5 | 190.1 | 193.4 | 197.9 | 200.0 | 203.4 | 210.2 | 215.2 | 215.8 |
| 160° | 188.4 | 190.1 | 191.7 | 192.2 | 194.8 | 198.3 | 200.0 | 202.9 | 208.7 | 213.1 | 213.3 |
| 162.5° | 191.4 | 192.7 | 194.0 | 194.3 | 196.2 | 198.8 | 200.0 | 202.5 | 207.4 | 211.1 | 211.4 |
| 165° | 194.9 | 196.0 | 197.1 | 197.4 | 198.3 | 199.5 | 200.0 | 201.8 | 205.3 | 207.9 | 208.2 |
| 167.5° | 198.0 | 198.5 | 199.0 | 199.2 | 200.0 | 200.9 | 201.4 | 202.6 | 204.8 | 206.6 | 206.6 |
| 170° | 200.0 | 200.6 | 201.1 | 201.2 | 201.3 | 201.4 | 201.4 | 202.6 | 204.8 | 206.6 | 206.6 |
| 172.5° | 201.1 | 201.2 | 201.4 | 201.4 | 201.4 | 201.4 | 201.4 | 202.3 | 204.1 | 205.5 | 205.4 |
| 175° | 202.7 | 202.7 | 202.7 | 202.7 | 202.2 | 201.7 | 201.4 | 201.9 | 203.1 | 204.0 | 204.0 |
| 177.5° | 202.7 | 202.7 | 202.7 | 202.7 | 202.3 | 201.9 | 201.7 | 202.1 | 203.0 | 203.8 | 203.7 |
| 180° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 |



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CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5° | 1471.8 | 1467.7 | 1471.8 | 1469.1 | 1470.4 | 1466.4 | 1454.1 | 1450.1 | 1454.1 | 1458.2 | 1458.2 |
| 5° | 1489.4 | 1486.7 | 1489.4 | 1489.4 | 1488.1 | 1485.4 | 1471.8 | 1469.1 | 1471.8 | 1473.1 | 1470.4 |
| 7.5° | 1494.9 | 1490.8 | 1494.9 | 1492.2 | 1492.2 | 1489.4 | 1475.9 | 1473.1 | 1474.5 | 1478.6 | 1474.5 |
| 10° | 1494.9 | 1490.8 | 1494.9 | 1493.5 | 1492.2 | 1489.4 | 1475.9 | 1470.4 | 1470.4 | 1474.5 | 1470.4 |
| 12.5° | 1488.1 | 1485.4 | 1488.1 | 1485.4 | 1485.4 | 1482.7 | 1469.1 | 1463.6 | 1465.0 | 1466.4 | 1460.9 |
| 15° | 1477.2 | 1473.1 | 1477.2 | 1474.5 | 1475.9 | 1471.8 | 1456.9 | 1451.4 | 1451.4 | 1454.1 | 1444.6 |
| 17.5° | 1460.9 | 1455.5 | 1460.9 | 1459.6 | 1458.2 | 1455.5 | 1441.9 | 1436.5 | 1435.1 | 1436.5 | 1429.7 |
| 20° | 1441.9 | 1437.8 | 1441.9 | 1440.6 | 1440.6 | 1435.1 | 1421.6 | 1414.8 | 1414.8 | 1414.8 | 1408.0 |
| 22.5° | 1412.1 | 1408.0 | 1412.1 | 1414.8 | 1414.8 | 1413.4 | 1401.2 | 1391.7 | 1389.0 | 1389.0 | 1380.8 |
| 25° | 1378.1 | 1374.0 | 1378.1 | 1378.1 | 1376.7 | 1378.1 | 1374.0 | 1368.6 | 1364.5 | 1360.5 | 1352.3 |
| 27.5° | 1345.5 | 1342.8 | 1345.5 | 1342.8 | 1345.5 | 1341.4 | 1340.1 | 1338.7 | 1333.3 | 1329.2 | 1318.4 |
| 30° | 1312.9 | 1310.2 | 1312.9 | 1310.2 | 1307.5 | 1304.8 | 1298.0 | 1295.3 | 1300.7 | 1298.0 | 1280.4 |
| 32.5° | 1272.2 | 1269.5 | 1272.2 | 1272.2 | 1269.5 | 1269.5 | 1258.6 | 1254.6 | 1255.9 | 1264.1 | 1247.8 |
| 35° | 1230.1 | 1226.0 | 1230.1 | 1228.8 | 1230.1 | 1226.0 | 1219.3 | 1217.9 | 1212.5 | 1222.0 | 1209.7 |
| 37.5° | 1181.2 | 1177.2 | 1181.2 | 1181.2 | 1181.2 | 1184.0 | 1178.5 | 1174.4 | 1166.3 | 1178.5 | 1169.0 |
| 40° | 1131.0 | 1125.6 | 1131.0 | 1129.6 | 1131.0 | 1133.7 | 1131.0 | 1128.3 | 1120.1 | 1129.6 | 1121.5 |
| 42.5° | 1074.0 | 1072.6 | 1074.0 | 1075.3 | 1075.3 | 1080.8 | 1084.8 | 1079.4 | 1076.7 | 1069.9 | 1075.3 |
| 45° | 1012.9 | 1010.2 | 1012.9 | 1015.6 | 1016.9 | 1019.7 | 1031.9 | 1031.9 | 1027.8 | 1016.9 | 1025.1 |
| 47.5° | 947.7 | 940.9 | 947.7 | 955.9 | 955.9 | 959.9 | 972.1 | 981.6 | 974.9 | 961.3 | 965.4 |
| 50° | 878.5 | 879.8 | 878.5 | 883.9 | 883.9 | 898.8 | 908.3 | 917.8 | 924.6 | 908.3 | 889.3 |
| 52.5° | 810.6 | 809.2 | 810.6 | 814.6 | 820.1 | 826.9 | 843.2 | 852.7 | 863.5 | 854.0 | 824.1 |
| 55° | 742.7 | 745.4 | 742.7 | 744.0 | 746.8 | 750.8 | 775.3 | 784.8 | 805.1 | 792.9 | 761.7 |
| 57.5° | 674.8 | 670.7 | 674.8 | 677.5 | 678.9 | 682.9 | 703.3 | 721.0 | 733.2 | 734.5 | 696.5 |
| 60° | 596.0 | 590.6 | 596.0 | 608.3 | 611.0 | 613.7 | 632.7 | 649.0 | 659.9 | 663.9 | 624.6 |
| 62.5° | 526.8 | 517.3 | 526.8 | 535.0 | 540.4 | 547.2 | 560.7 | 585.2 | 594.7 | 596.0 | 540.4 |
| 65° | 453.5 | 449.4 | 453.5 | 469.8 | 471.1 | 479.3 | 494.2 | 511.9 | 532.2 | 529.5 | 449.4 |
| 67.5° | 387.0 | 387.0 | 387.0 | 397.8 | 406.0 | 410.0 | 429.0 | 437.2 | 463.0 | 465.7 | 374.7 |
| 70° | 325.9 | 324.5 | 325.9 | 334.0 | 339.4 | 348.9 | 366.6 | 376.1 | 396.5 | 403.2 | 304.1 |
| 72.5° | 267.5 | 266.1 | 267.5 | 274.3 | 279.7 | 287.8 | 302.8 | 313.6 | 331.3 | 339.4 | 236.2 |
| 75° | 215.9 | 213.2 | 215.9 | 221.3 | 220.0 | 230.8 | 243.0 | 253.9 | 270.2 | 275.6 | 175.1 |
| 77.5° | 165.6 | 165.6 | 165.6 | 171.1 | 171.1 | 181.9 | 187.4 | 200.9 | 210.4 | 218.6 | 129.0 |
| 80° | 123.6 | 122.2 | 123.6 | 124.9 | 124.9 | 130.3 | 139.8 | 149.4 | 157.5 | 157.5 | 88.3 |
| 82.5° | 86.9 | 84.2 | 86.9 | 86.9 | 86.9 | 89.6 | 95.0 | 97.8 | 103.2 | 107.3 | 55.7 |
| 85° | 54.3 | 54.3 | 54.3 | 55.7 | 54.3 | 57.0 | 58.4 | 61.1 | 61.1 | 58.4 | 33.9 |
| 87.5° | 35.3 | 33.9 | 35.3 | 33.9 | 33.9 | 32.6 | 32.6 | 32.6 | 31.2 | 29.9 | 19.0 |
| 90° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.9 | 9.1 | 10.3 | 8.9 | 6.0 | 3.8 |
| 92.5° | 20.6 | 16.6 | 20.6 | 24.8 | 25.8 | 36.6 | 51.0 | 58.2 | 51.1 | 36.9 | 26.2 |
| 95° | 72.1 | 59.7 | 72.1 | 84.6 | 87.7 | 115.1 | 151.8 | 170.1 | 143.6 | 90.8 | 51.1 |
| 97.5° | 172.9 | 149.2 | 172.9 | 196.6 | 202.5 | 219.9 | 242.9 | 254.5 | 210.4 | 122.3 | 56.1 |
| 100° | 249.1 | 220.9 | 249.1 | 277.3 | 284.3 | 283.0 | 281.3 | 280.5 | 231.6 | 133.8 | 60.4 |
| 102.5° | 324.0 | 299.9 | 324.0 | 348.2 | 354.3 | 332.1 | 302.6 | 287.8 | 238.2 | 139.0 | 64.6 |
| 105° | 419.6 | 406.6 | 419.6 | 432.6 | 435.8 | 386.2 | 320.1 | 287.0 | 239.0 | 142.9 | 70.9 |
| 107.5° | 482.2 | 485.3 | 482.2 | 479.1 | 478.3 | 409.1 | 316.9 | 270.7 | 228.4 | 143.6 | 80.1 |
| 110° | 506.1 | 519.7 | 506.1 | 492.5 | 489.1 | 411.8 | 308.8 | 257.2 | 219.0 | 142.6 | 85.3 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 508.2 | 529.0 | 508.2 | 487.3 | 482.2 | 403.1 | 297.5 | 244.8 | 210.7 | 142.6 | 91.5 |
| 115° | 494.7 | 523.5 | 494.7 | 465.9 | 458.6 | 382.4 | 280.8 | 229.9 | 201.2 | 143.9 | 100.9 |
| 117.5° | 466.2 | 498.1 | 466.2 | 434.1 | 426.1 | 357.4 | 265.7 | 219.8 | 195.3 | 146.5 | 110.0 |
| 120° | 443.2 | 474.2 | 443.2 | 412.1 | 404.3 | 341.4 | 257.6 | 215.7 | 193.4 | 148.8 | 115.3 |
| 122.5° | 420.7 | 451.3 | 420.7 | 390.1 | 382.4 | 325.8 | 250.3 | 212.5 | 192.3 | 151.9 | 121.6 |
| 125° | 388.7 | 416.9 | 388.7 | 360.5 | 353.5 | 305.4 | 241.2 | 209.2 | 191.5 | 156.1 | 129.6 |
| 127.5° | 360.0 | 383.8 | 360.0 | 336.2 | 330.2 | 288.9 | 233.8 | 206.3 | 191.0 | 160.3 | 137.3 |
| 130° | 343.0 | 365.0 | 343.0 | 321.0 | 315.4 | 278.7 | 229.7 | 205.2 | 191.3 | 163.4 | 142.5 |
| 132.5° | 327.6 | 347.3 | 327.6 | 307.8 | 303.0 | 270.1 | 226.2 | 204.3 | 191.5 | 165.9 | 146.7 |
| 135° | 306.5 | 323.5 | 306.5 | 289.6 | 285.3 | 257.8 | 221.0 | 202.7 | 191.4 | 168.6 | 151.6 |
| 137.5° | 289.7 | 303.5 | 289.7 | 275.7 | 272.3 | 249.0 | 218.0 | 202.4 | 192.5 | 172.7 | 157.9 |
| 140° | 278.0 | 291.0 | 278.0 | 265.0 | 261.8 | 241.7 | 214.8 | 201.4 | 192.7 | 175.2 | 162.1 |
| 142.5° | 268.4 | 279.6 | 268.4 | 257.2 | 254.4 | 236.8 | 213.2 | 201.4 | 193.3 | 177.2 | 165.2 |
| 145° | 254.0 | 262.5 | 254.0 | 245.5 | 243.4 | 228.9 | 209.6 | 200.0 | 193.3 | 180.0 | 170.0 |
| 147.5° | 242.9 | 249.9 | 242.9 | 235.9 | 234.2 | 222.8 | 207.6 | 200.0 | 194.7 | 184.0 | 176.0 |
| 150° | 236.0 | 241.7 | 236.0 | 230.3 | 228.8 | 219.2 | 206.5 | 200.0 | 195.4 | 186.1 | 179.1 |
| 152.5° | 230.0 | 234.3 | 230.0 | 225.7 | 224.7 | 216.4 | 205.5 | 200.0 | 195.9 | 187.5 | 181.1 |
| 155° | 223.1 | 226.0 | 223.1 | 220.3 | 219.6 | 213.1 | 204.4 | 200.0 | 196.9 | 190.4 | 185.6 |
| 157.5° | 217.8 | 219.8 | 217.8 | 215.8 | 215.2 | 210.2 | 203.4 | 200.0 | 197.9 | 193.4 | 190.1 |
| 160° | 214.5 | 215.7 | 214.5 | 213.3 | 213.1 | 208.7 | 202.9 | 200.0 | 198.3 | 194.8 | 192.2 |
| 162.5° | 212.4 | 213.5 | 212.4 | 211.4 | 211.1 | 207.4 | 202.5 | 200.0 | 198.8 | 196.2 | 194.3 |
| 165° | 209.4 | 210.5 | 209.4 | 208.2 | 207.9 | 205.3 | 201.8 | 200.0 | 199.5 | 198.3 | 197.4 |
| 167.5° | 207.2 | 207.6 | 207.2 | 206.6 | 206.6 | 204.8 | 202.6 | 201.4 | 200.9 | 200.0 | 199.2 |
| 170° | 206.6 | 206.6 | 206.6 | 206.6 | 206.6 | 204.8 | 202.6 | 201.4 | 201.4 | 201.3 | 201.2 |
| 172.5° | 204.9 | 204.6 | 204.9 | 205.4 | 205.5 | 204.1 | 202.3 | 201.4 | 201.4 | 201.4 | 201.4 |
| 175° | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 203.1 | 201.9 | 201.4 | 201.7 | 202.2 | 202.7 |
| 177.5° | 203.1 | 202.7 | 203.1 | 203.7 | 203.8 | 203.0 | 202.1 | 201.7 | 201.9 | 202.3 | 202.7 |
| 180° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5° | 1455.5 | 1447.4 | 1447.4 | 1433.8 | 1428.3 | 1424.3 | 1417.5 | 1397.1 | 1391.7 | 1386.3 | 1394.4 |
| 5° | 1467.7 | 1452.8 | 1441.9 | 1417.5 | 1397.1 | 1389.0 | 1363.2 | 1314.3 | 1281.7 | 1257.3 | 1243.7 |
| 7.5° | 1470.4 | 1451.4 | 1431.1 | 1393.0 | 1344.2 | 1322.4 | 1243.7 | 1154.1 | 1129.6 | 1107.9 | 1094.3 |
| 10° | 1467.7 | 1446.0 | 1417.5 | 1360.5 | 1245.0 | 1207.0 | 1128.3 | 1069.9 | 1055.0 | 1050.9 | 1055.0 |
| 12.5° | 1458.2 | 1437.8 | 1398.5 | 1303.4 | 1141.9 | 1116.1 | 1069.9 | 1036.0 | 1033.2 | 1040.0 | 1076.7 |
| 15° | 1441.9 | 1422.9 | 1376.7 | 1227.4 | 1084.8 | 1065.8 | 1033.2 | 1021.0 | 1036.0 | 1083.5 | 1193.5 |
| 17.5° | 1425.6 | 1403.9 | 1346.9 | 1152.7 | 1041.4 | 1027.8 | 1004.7 | 1029.2 | 1113.3 | 1177.2 | 1213.8 |
| 20° | 1403.9 | 1378.1 | 1312.9 | 1098.4 | 1010.2 | 997.9 | 987.1 | 1097.1 | 1160.9 | 1184.0 | 1204.3 |
| 22.5° | 1378.1 | 1351.0 | 1266.8 | 1060.4 | 977.6 | 968.1 | 974.9 | 1135.1 | 1160.9 | 1177.2 | 1194.8 |
| 25° | 1344.2 | 1321.1 | 1212.5 | 1030.5 | 951.8 | 940.9 | 966.7 | 1131.0 | 1145.9 | 1150.0 | 1185.3 |
| 27.5° | 1312.9 | 1283.1 | 1155.4 | 1003.4 | 920.5 | 916.5 | 973.5 | 1113.3 | 1124.2 | 1128.3 | 1166.3 |
| 30° | 1274.9 | 1230.1 | 1091.6 | 974.9 | 888.0 | 886.6 | 974.9 | 1091.6 | 1088.9 | 1099.8 | 1137.8 |
| 32.5° | 1235.5 | 1151.4 | 1019.7 | 939.6 | 856.7 | 855.4 | 965.4 | 1059.0 | 1056.3 | 1071.3 | 1099.8 |
| 35° | 1198.9 | 1090.3 | 921.9 | 898.8 | 817.4 | 818.7 | 942.3 | 1021.0 | 1022.4 | 1036.0 | 1053.6 |
| 37.5° | 1160.9 | 1037.3 | 814.6 | 854.0 | 779.3 | 779.3 | 911.0 | 985.7 | 983.0 | 987.1 | 1011.5 |
| 40° | 1116.1 | 954.5 | 719.6 | 795.6 | 744.0 | 740.0 | 873.0 | 947.7 | 938.2 | 936.8 | 970.8 |
| 42.5° | 1068.5 | 863.5 | 649.0 | 718.2 | 703.3 | 697.9 | 826.9 | 901.5 | 883.9 | 888.0 | 931.4 |
| 45° | 1016.9 | 839.1 | 594.7 | 606.9 | 661.2 | 657.1 | 776.6 | 848.6 | 836.4 | 847.2 | 892.0 |
| 47.5° | 965.4 | 790.2 | 577.0 | 503.7 | 616.4 | 615.1 | 721.0 | 797.0 | 790.2 | 801.1 | 848.6 |
| 50° | 894.8 | 735.9 | 575.7 | 431.8 | 566.2 | 571.6 | 654.4 | 746.8 | 746.8 | 756.3 | 806.5 |
| 52.5° | 803.8 | 669.4 | 522.7 | 391.0 | 507.8 | 524.1 | 596.0 | 703.3 | 706.0 | 715.5 | 760.3 |
| 55° | 721.0 | 600.1 | 484.7 | 359.8 | 438.6 | 473.9 | 539.0 | 658.5 | 663.9 | 673.4 | 714.2 |
| 57.5° | 644.9 | 499.6 | 476.6 | 323.1 | 374.7 | 408.7 | 488.8 | 615.1 | 617.8 | 625.9 | 665.3 |
| 60° | 563.5 | 361.2 | 437.2 | 283.8 | 319.1 | 344.9 | 442.6 | 563.5 | 573.0 | 578.4 | 612.3 |
| 62.5° | 471.1 | 262.0 | 396.5 | 256.6 | 291.9 | 297.3 | 404.6 | 514.6 | 526.8 | 530.9 | 551.2 |
| 65° | 335.4 | 220.0 | 336.7 | 233.5 | 263.4 | 264.8 | 363.9 | 464.3 | 475.2 | 482.0 | 496.9 |
| 67.5° | 226.7 | 179.2 | 256.6 | 211.8 | 241.7 | 243.0 | 324.5 | 406.0 | 420.9 | 426.3 | 435.8 |
| 70° | 157.5 | 119.5 | 190.1 | 188.7 | 217.2 | 220.0 | 282.4 | 353.0 | 366.6 | 370.7 | 376.1 |
| 72.5° | 115.4 | 96.4 | 157.5 | 169.7 | 191.4 | 194.2 | 239.0 | 293.3 | 306.8 | 310.9 | 313.6 |
| 75° | 88.3 | 101.8 | 127.6 | 148.0 | 162.9 | 164.3 | 195.5 | 239.0 | 248.5 | 251.2 | 252.5 |
| 77.5° | 70.6 | 95.0 | 93.7 | 119.5 | 133.1 | 130.3 | 153.4 | 184.7 | 192.8 | 192.8 | 192.8 |
| 80° | 53.0 | 74.7 | 70.6 | 85.5 | 97.8 | 95.0 | 110.0 | 131.7 | 134.4 | 137.1 | 135.8 |
| 82.5° | 39.4 | 47.5 | 47.5 | 54.3 | 65.2 | 62.5 | 73.3 | 85.5 | 85.5 | 85.5 | 88.3 |
| 85° | 24.4 | 27.2 | 21.7 | 28.5 | 36.7 | 35.3 | 40.7 | 46.2 | 47.5 | 47.5 | 44.8 |
| 87.5° | 14.9 | 12.2 | 6.8 | 10.9 | 16.3 | 16.3 | 19.0 | 20.4 | 19.0 | 19.0 | 19.0 |
| 90° | 3.5 | 2.4 | 1.4 | 2.4 | 3.5 | 3.8 | 6.0 | 8.9 | 10.3 | 9.1 | 6.9 |
| 92.5° | 23.9 | 14.7 | 5.4 | 14.7 | 23.9 | 26.2 | 36.9 | 51.1 | 58.2 | 51.0 | 36.6 |
| 95° | 46.9 | 30.0 | 13.0 | 30.0 | 46.9 | 51.1 | 90.8 | 143.6 | 170.1 | 151.8 | 115.1 |
| 97.5° | 52.4 | 37.5 | 22.5 | 37.5 | 52.4 | 56.1 | 122.3 | 210.4 | 254.5 | 242.9 | 219.9 |
| 100° | 57.0 | 43.4 | 30.0 | 43.4 | 57.0 | 60.4 | 133.8 | 231.6 | 280.5 | 281.3 | 283.0 |
| 102.5° | 61.5 | 48.9 | 36.2 | 48.9 | 61.5 | 64.6 | 139.0 | 238.2 | 287.8 | 302.6 | 332.1 |
| 105° | 68.2 | 57.5 | 46.8 | 57.5 | 68.2 | 70.9 | 142.9 | 239.0 | 287.0 | 320.1 | 386.2 |
| 107.5° | 77.6 | 67.6 | 57.7 | 67.6 | 77.6 | 80.1 | 143.6 | 228.4 | 270.7 | 316.9 | 409.1 |
| 110° | 83.0 | 74.0 | 65.0 | 74.0 | 83.0 | 85.3 | 142.6 | 219.0 | 257.2 | 308.8 | 411.8 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° | 190° | 200° | 202.5° | 210° | 220° | 225° | 230° | 240° |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 89.3 | 80.8 | 72.2 | 80.8 | 89.3 | 91.5 | 142.6 | 210.7 | 244.8 | 297.5 | 403.1 |
| 115° | 98.9 | 91.1 | 83.1 | 91.1 | 98.9 | 100.9 | 143.9 | 201.2 | 229.9 | 280.8 | 382.4 |
| 117.5° | 108.2 | 101.0 | 93.9 | 101.0 | 108.2 | 110.0 | 146.5 | 195.3 | 219.8 | 265.7 | 357.4 |
| 120° | 113.6 | 106.9 | 100.1 | 106.9 | 113.6 | 115.3 | 148.8 | 193.4 | 215.7 | 257.6 | 341.4 |
| 122.5° | 119.8 | 113.1 | 106.2 | 113.1 | 119.8 | 121.6 | 151.9 | 192.3 | 212.5 | 250.3 | 325.8 |
| 125° | 128.1 | 121.8 | 115.6 | 121.8 | 128.1 | 129.6 | 156.1 | 191.5 | 209.2 | 241.2 | 305.4 |
| 127.5° | 135.8 | 129.4 | 123.2 | 129.4 | 135.8 | 137.3 | 160.3 | 191.0 | 206.3 | 233.8 | 288.9 |
| 130° | 140.8 | 134.1 | 127.3 | 134.1 | 140.8 | 142.5 | 163.4 | 191.3 | 205.2 | 229.7 | 278.7 |
| 132.5° | 145.0 | 138.3 | 131.5 | 138.3 | 145.0 | 146.7 | 165.9 | 191.5 | 204.3 | 226.2 | 270.1 |
| 135° | 150.1 | 143.9 | 137.8 | 143.9 | 150.1 | 151.6 | 168.6 | 191.4 | 202.7 | 221.0 | 257.8 |
| 137.5° | 156.3 | 150.3 | 144.2 | 150.3 | 156.3 | 157.9 | 172.7 | 192.5 | 202.4 | 218.0 | 249.0 |
| 140° | 160.7 | 155.1 | 149.4 | 155.1 | 160.7 | 162.1 | 175.2 | 192.7 | 201.4 | 214.8 | 241.7 |
| 142.5° | 163.9 | 158.7 | 153.5 | 158.7 | 163.9 | 165.2 | 177.2 | 193.3 | 201.4 | 213.2 | 236.8 |
| 145° | 168.8 | 164.3 | 159.8 | 164.3 | 168.8 | 170.0 | 180.0 | 193.3 | 200.0 | 209.6 | 228.9 |
| 147.5° | 174.9 | 170.4 | 166.0 | 170.4 | 174.9 | 176.0 | 184.0 | 194.7 | 200.0 | 207.6 | 222.8 |
| 150° | 178.1 | 174.1 | 170.1 | 174.1 | 178.1 | 179.1 | 186.1 | 195.4 | 200.0 | 206.5 | 219.2 |
| 152.5° | 180.4 | 177.3 | 174.3 | 177.3 | 180.4 | 181.1 | 187.5 | 195.9 | 200.0 | 205.5 | 216.4 |
| 155° | 185.1 | 182.8 | 180.6 | 182.8 | 185.1 | 185.6 | 190.4 | 196.9 | 200.0 | 204.4 | 213.1 |
| 157.5° | 189.5 | 187.4 | 185.2 | 187.4 | 189.5 | 190.1 | 193.4 | 197.9 | 200.0 | 203.4 | 210.2 |
| 160° | 191.7 | 190.1 | 188.4 | 190.1 | 191.7 | 192.2 | 194.8 | 198.3 | 200.0 | 202.9 | 208.7 |
| 162.5° | 194.0 | 192.7 | 191.4 | 192.7 | 194.0 | 194.3 | 196.2 | 198.8 | 200.0 | 202.5 | 207.4 |
| 165° | 197.1 | 196.0 | 194.9 | 196.0 | 197.1 | 197.4 | 198.3 | 199.5 | 200.0 | 201.8 | 205.3 |
| 167.5° | 199.0 | 198.5 | 198.0 | 198.5 | 199.0 | 199.2 | 200.0 | 200.9 | 201.4 | 202.6 | 204.8 |
| 170° | 201.1 | 200.6 | 200.0 | 200.6 | 201.1 | 201.2 | 201.3 | 201.4 | 201.4 | 202.6 | 204.8 |
| 172.5° | 201.4 | 201.2 | 201.1 | 201.2 | 201.4 | 201.4 | 201.4 | 201.4 | 201.4 | 202.3 | 204.1 |
| 175° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.2 | 201.7 | 201.4 | 201.9 | 203.1 |
| 177.5° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.3 | 201.9 | 201.7 | 202.1 | 203.0 |
| 180° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5° | 1384.9 | 1380.8 | 1386.3 | 1371.3 | 1386.3 | 1380.8 | 1384.9 | 1394.4 | 1386.3 | 1391.7 | 1397.1 |
| 5° | 1215.2 | 1208.4 | 1186.7 | 1169.0 | 1186.7 | 1208.4 | 1215.2 | 1243.7 | 1257.3 | 1281.7 | 1314.3 |
| 7.5° | 1086.2 | 1080.8 | 1075.3 | 1064.5 | 1075.3 | 1080.8 | 1086.2 | 1094.3 | 1107.9 | 1129.6 | 1154.1 |
| 10° | 1057.7 | 1059.0 | 1067.2 | 1065.8 | 1067.2 | 1059.0 | 1057.7 | 1055.0 | 1050.9 | 1055.0 | 1069.9 |
| 12.5° | 1131.0 | 1143.2 | 1188.0 | 1185.3 | 1188.0 | 1143.2 | 1131.0 | 1076.7 | 1040.0 | 1033.2 | 1036.0 |
| 15° | 1215.2 | 1219.3 | 1228.8 | 1230.1 | 1228.8 | 1219.3 | 1215.2 | 1193.5 | 1083.5 | 1036.0 | 1021.0 |
| 17.5° | 1223.3 | 1224.7 | 1231.5 | 1231.5 | 1231.5 | 1224.7 | 1223.3 | 1213.8 | 1177.2 | 1113.3 | 1029.2 |
| 20° | 1216.5 | 1219.3 | 1232.8 | 1235.5 | 1232.8 | 1219.3 | 1216.5 | 1204.3 | 1184.0 | 1160.9 | 1097.1 |
| 22.5° | 1213.8 | 1219.3 | 1230.1 | 1228.8 | 1230.1 | 1219.3 | 1213.8 | 1194.8 | 1177.2 | 1160.9 | 1135.1 |
| 25° | 1200.2 | 1200.2 | 1201.6 | 1203.0 | 1201.6 | 1200.2 | 1200.2 | 1185.3 | 1150.0 | 1145.9 | 1131.0 |
| 27.5° | 1171.7 | 1174.4 | 1182.6 | 1181.2 | 1182.6 | 1174.4 | 1171.7 | 1166.3 | 1128.3 | 1124.2 | 1113.3 |
| 30° | 1145.9 | 1143.2 | 1136.4 | 1131.0 | 1136.4 | 1143.2 | 1145.9 | 1137.8 | 1099.8 | 1088.9 | 1091.6 |
| 32.5° | 1102.5 | 1095.7 | 1088.9 | 1084.8 | 1088.9 | 1095.7 | 1102.5 | 1099.8 | 1071.3 | 1056.3 | 1059.0 |
| 35° | 1050.9 | 1052.2 | 1050.9 | 1046.8 | 1050.9 | 1052.2 | 1050.9 | 1053.6 | 1036.0 | 1022.4 | 1021.0 |
| 37.5° | 1014.2 | 1016.9 | 1015.6 | 1010.2 | 1015.6 | 1016.9 | 1014.2 | 1011.5 | 987.1 | 983.0 | 985.7 |
| 40° | 976.2 | 977.6 | 976.2 | 972.1 | 976.2 | 977.6 | 976.2 | 970.8 | 936.8 | 938.2 | 947.7 |
| 42.5° | 939.6 | 938.2 | 934.1 | 931.4 | 934.1 | 938.2 | 939.6 | 931.4 | 888.0 | 883.9 | 901.5 |
| 45° | 897.5 | 898.8 | 890.7 | 886.6 | 890.7 | 898.8 | 897.5 | 892.0 | 847.2 | 836.4 | 848.6 |
| 47.5° | 855.4 | 855.4 | 848.6 | 844.5 | 848.6 | 855.4 | 855.4 | 848.6 | 801.1 | 790.2 | 797.0 |
| 50° | 810.6 | 809.2 | 799.7 | 798.4 | 799.7 | 809.2 | 810.6 | 806.5 | 756.3 | 746.8 | 746.8 |
| 52.5° | 759.0 | 759.0 | 760.3 | 763.1 | 760.3 | 759.0 | 759.0 | 760.3 | 715.5 | 706.0 | 703.3 |
| 55° | 714.2 | 715.5 | 725.0 | 727.7 | 725.0 | 715.5 | 714.2 | 714.2 | 673.4 | 663.9 | 658.5 |
| 57.5° | 668.0 | 668.0 | 674.8 | 674.8 | 674.8 | 668.0 | 668.0 | 665.3 | 625.9 | 617.8 | 615.1 |
| 60° | 615.1 | 617.8 | 623.2 | 621.8 | 623.2 | 617.8 | 615.1 | 612.3 | 578.4 | 573.0 | 563.5 |
| 62.5° | 559.4 | 562.1 | 563.5 | 560.7 | 563.5 | 562.1 | 559.4 | 551.2 | 530.9 | 526.8 | 514.6 |
| 65° | 501.0 | 503.7 | 505.1 | 502.4 | 505.1 | 503.7 | 501.0 | 496.9 | 482.0 | 475.2 | 464.3 |
| 67.5° | 441.3 | 439.9 | 438.6 | 444.0 | 438.6 | 439.9 | 441.3 | 435.8 | 426.3 | 420.9 | 406.0 |
| 70° | 380.2 | 380.2 | 378.8 | 381.5 | 378.8 | 380.2 | 380.2 | 376.1 | 370.7 | 366.6 | 353.0 |
| 72.5° | 315.0 | 313.6 | 319.1 | 315.0 | 319.1 | 313.6 | 315.0 | 313.6 | 310.9 | 306.8 | 293.3 |
| 75° | 251.2 | 253.9 | 251.2 | 255.3 | 251.2 | 253.9 | 251.2 | 252.5 | 251.2 | 248.5 | 239.0 |
| 77.5° | 191.4 | 194.2 | 191.4 | 191.4 | 191.4 | 194.2 | 191.4 | 192.8 | 192.8 | 192.8 | 184.7 |
| 80° | 135.8 | 134.4 | 134.4 | 133.1 | 134.4 | 134.4 | 135.8 | 135.8 | 137.1 | 134.4 | 131.7 |
| 82.5° | 86.9 | 85.5 | 85.5 | 88.3 | 85.5 | 85.5 | 86.9 | 88.3 | 85.5 | 85.5 | 85.5 |
| 85° | 47.5 | 48.9 | 46.2 | 46.2 | 46.2 | 48.9 | 47.5 | 44.8 | 47.5 | 47.5 | 46.2 |
| 87.5° | 17.7 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 17.7 | 19.0 | 19.0 | 19.0 | 20.4 |
| 90° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.9 | 9.1 | 10.3 | 8.9 |
| 92.5° | 25.8 | 24.8 | 20.6 | 16.6 | 20.6 | 24.8 | 25.8 | 36.6 | 51.0 | 58.2 | 51.1 |
| 95° | 87.7 | 84.6 | 72.1 | 59.7 | 72.1 | 84.6 | 87.7 | 115.1 | 151.8 | 170.1 | 143.6 |
| 97.5° | 202.5 | 196.6 | 172.9 | 149.2 | 172.9 | 196.6 | 202.5 | 219.9 | 242.9 | 254.5 | 210.4 |
| 100° | 284.3 | 277.3 | 249.1 | 220.9 | 249.1 | 277.3 | 284.3 | 283.0 | 281.3 | 280.5 | 231.6 |
| 102.5° | 354.3 | 348.2 | 324.0 | 299.9 | 324.0 | 348.2 | 354.3 | 332.1 | 302.6 | 287.8 | 238.2 |
| 105° | 435.8 | 432.6 | 419.6 | 406.6 | 419.6 | 432.6 | 435.8 | 386.2 | 320.1 | 287.0 | 239.0 |
| 107.5° | 478.3 | 479.1 | 482.2 | 485.3 | 482.2 | 479.1 | 478.3 | 409.1 | 316.9 | 270.7 | 228.4 |
| 110° | 489.1 | 492.5 | 506.1 | 519.7 | 506.1 | 492.5 | 489.1 | 411.8 | 308.8 | 257.2 | 219.0 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 260° | 270° | 280° | 290° | 292.5° | 300° | 310° | 315° | 320° |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 112.5° | 482.2 | 487.3 | 508.2 | 529.0 | 508.2 | 487.3 | 482.2 | 403.1 | 297.5 | 244.8 | 210.7 |
| 115° | 458.6 | 465.9 | 494.7 | 523.5 | 494.7 | 465.9 | 458.6 | 382.4 | 280.8 | 229.9 | 201.2 |
| 117.5° | 426.1 | 434.1 | 466.2 | 498.1 | 466.2 | 434.1 | 426.1 | 357.4 | 265.7 | 219.8 | 195.3 |
| 120° | 404.3 | 412.1 | 443.2 | 474.2 | 443.2 | 412.1 | 404.3 | 341.4 | 257.6 | 215.7 | 193.4 |
| 122.5° | 382.4 | 390.1 | 420.7 | 451.3 | 420.7 | 390.1 | 382.4 | 325.8 | 250.3 | 212.5 | 192.3 |
| 125° | 353.5 | 360.5 | 388.7 | 416.9 | 388.7 | 360.5 | 353.5 | 305.4 | 241.2 | 209.2 | 191.5 |
| 127.5° | 330.2 | 336.2 | 360.0 | 383.8 | 360.0 | 336.2 | 330.2 | 288.9 | 233.8 | 206.3 | 191.0 |
| 130° | 315.4 | 321.0 | 343.0 | 365.0 | 343.0 | 321.0 | 315.4 | 278.7 | 229.7 | 205.2 | 191.3 |
| 132.5° | 303.0 | 307.8 | 327.6 | 347.3 | 327.6 | 307.8 | 303.0 | 270.1 | 226.2 | 204.3 | 191.5 |
| 135° | 285.3 | 289.6 | 306.5 | 323.5 | 306.5 | 289.6 | 285.3 | 257.8 | 221.0 | 202.7 | 191.4 |
| 137.5° | 272.3 | 275.7 | 289.7 | 303.5 | 289.7 | 275.7 | 272.3 | 249.0 | 218.0 | 202.4 | 192.5 |
| 140° | 261.8 | 265.0 | 278.0 | 291.0 | 278.0 | 265.0 | 261.8 | 241.7 | 214.8 | 201.4 | 192.7 |
| 142.5° | 254.4 | 257.2 | 268.4 | 279.6 | 268.4 | 257.2 | 254.4 | 236.8 | 213.2 | 201.4 | 193.3 |
| 145° | 243.4 | 245.5 | 254.0 | 262.5 | 254.0 | 245.5 | 243.4 | 228.9 | 209.6 | 200.0 | 193.3 |
| 147.5° | 234.2 | 235.9 | 242.9 | 249.9 | 242.9 | 235.9 | 234.2 | 222.8 | 207.6 | 200.0 | 194.7 |
| 150° | 228.8 | 230.3 | 236.0 | 241.7 | 236.0 | 230.3 | 228.8 | 219.2 | 206.5 | 200.0 | 195.4 |
| 152.5° | 224.7 | 225.7 | 230.0 | 234.3 | 230.0 | 225.7 | 224.7 | 216.4 | 205.5 | 200.0 | 195.9 |
| 155° | 219.6 | 220.3 | 223.1 | 226.0 | 223.1 | 220.3 | 219.6 | 213.1 | 204.4 | 200.0 | 196.9 |
| 157.5° | 215.2 | 215.8 | 217.8 | 219.8 | 217.8 | 215.8 | 215.2 | 210.2 | 203.4 | 200.0 | 197.9 |
| 160° | 213.1 | 213.3 | 214.5 | 215.7 | 214.5 | 213.3 | 213.1 | 208.7 | 202.9 | 200.0 | 198.3 |
| 162.5° | 211.1 | 211.4 | 212.4 | 213.5 | 212.4 | 211.4 | 211.1 | 207.4 | 202.5 | 200.0 | 198.8 |
| 165° | 207.9 | 208.2 | 209.4 | 210.5 | 209.4 | 208.2 | 207.9 | 205.3 | 201.8 | 200.0 | 199.5 |
| 167.5° | 206.6 | 206.6 | 207.2 | 207.6 | 207.2 | 206.6 | 206.6 | 204.8 | 202.6 | 201.4 | 200.9 |
| 170° | 206.6 | 206.6 | 206.6 | 206.6 | 206.6 | 206.6 | 206.6 | 204.8 | 202.6 | 201.4 | 201.4 |
| 172.5° | 205.5 | 205.4 | 204.9 | 204.6 | 204.9 | 205.4 | 205.5 | 204.1 | 202.3 | 201.4 | 201.4 |
| 175° | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 203.1 | 201.9 | 201.4 | 201.7 |
| 177.5° | 203.8 | 203.7 | 203.1 | 202.7 | 203.1 | 203.7 | 203.8 | 203.0 | 202.1 | 201.7 | 201.9 |
| 180° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1435.1 | 1435.1 | 1435.1 | 1435.1 | 1435.1 |
| 2.5° | 1417.5 | 1424.3 | 1428.3 | 1433.8 | 1447.4 |
| 5° | 1363.2 | 1389.0 | 1397.1 | 1417.5 | 1441.9 |
| 7.5° | 1243.7 | 1322.4 | 1344.2 | 1393.0 | 1431.1 |
| 10° | 1128.3 | 1207.0 | 1245.0 | 1360.5 | 1417.5 |
| 12.5° | 1069.9 | 1116.1 | 1141.9 | 1303.4 | 1398.5 |
| 15° | 1033.2 | 1065.8 | 1084.8 | 1227.4 | 1376.7 |
| 17.5° | 1004.7 | 1027.8 | 1041.4 | 1152.7 | 1346.9 |
| 20° | 987.1 | 997.9 | 1010.2 | 1098.4 | 1312.9 |
| 22.5° | 974.9 | 968.1 | 977.6 | 1060.4 | 1266.8 |
| 25° | 966.7 | 940.9 | 951.8 | 1030.5 | 1212.5 |
| 27.5° | 973.5 | 916.5 | 920.5 | 1003.4 | 1155.4 |
| 30° | 974.9 | 886.6 | 888.0 | 974.9 | 1091.6 |
| 32.5° | 965.4 | 855.4 | 856.7 | 939.6 | 1019.7 |
| 35° | 942.3 | 818.7 | 817.4 | 898.8 | 921.9 |
| 37.5° | 911.0 | 779.3 | 779.3 | 854.0 | 814.6 |
| 40° | 873.0 | 740.0 | 744.0 | 795.6 | 719.6 |
| 42.5° | 826.9 | 697.9 | 703.3 | 718.2 | 649.0 |
| 45° | 776.6 | 657.1 | 661.2 | 606.9 | 594.7 |
| 47.5° | 721.0 | 615.1 | 616.4 | 503.7 | 577.0 |
| 50° | 654.4 | 571.6 | 566.2 | 431.8 | 575.7 |
| 52.5° | 596.0 | 524.1 | 507.8 | 391.0 | 522.7 |
| 55° | 539.0 | 473.9 | 438.6 | 359.8 | 484.7 |
| 57.5° | 488.8 | 408.7 | 374.7 | 323.1 | 476.6 |
| 60° | 442.6 | 344.9 | 319.1 | 283.8 | 437.2 |
| 62.5° | 404.6 | 297.3 | 291.9 | 256.6 | 396.5 |
| 65° | 363.9 | 264.8 | 263.4 | 233.5 | 336.7 |
| 67.5° | 324.5 | 243.0 | 241.7 | 211.8 | 256.6 |
| 70° | 282.4 | 220.0 | 217.2 | 188.7 | 190.1 |
| 72.5° | 239.0 | 194.2 | 191.4 | 169.7 | 157.5 |
| 75° | 195.5 | 164.3 | 162.9 | 148.0 | 127.6 |
| 77.5° | 153.4 | 130.3 | 133.1 | 119.5 | 93.7 |
| 80° | 110.0 | 95.0 | 97.8 | 85.5 | 70.6 |
| 82.5° | 73.3 | 62.5 | 65.2 | 54.3 | 47.5 |
| 85° | 40.7 | 35.3 | 36.7 | 28.5 | 21.7 |
| 87.5° | 19.0 | 16.3 | 16.3 | 10.9 | 6.8 |
| 90° | 6.0 | 3.8 | 3.5 | 2.4 | 1.4 |
| 92.5° | 36.9 | 26.2 | 23.9 | 14.7 | 5.4 |
| 95° | 90.8 | 51.1 | 46.9 | 30.0 | 13.0 |
| 97.5° | 122.3 | 56.1 | 52.4 | 37.5 | 22.5 |
| 100° | 133.8 | 60.4 | 57.0 | 43.4 | 30.0 |
| 102.5° | 139.0 | 64.6 | 61.5 | 48.9 | 36.2 |
| 105° | 142.9 | 70.9 | 68.2 | 57.5 | 46.8 |
| 107.5° | 143.6 | 80.1 | 77.6 | 67.6 | 57.7 |
| 110° | 142.6 | 85.3 | 83.0 | 74.0 | 65.0 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 337.5° | 340° | 350° | 360° |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 142.6 | 91.5 | 89.3 | 80.8 | 72.2 |
| 115° | 143.9 | 100.9 | 98.9 | 91.1 | 83.1 |
| 117.5° | 146.5 | 110.0 | 108.2 | 101.0 | 93.9 |
| 120° | 148.8 | 115.3 | 113.6 | 106.9 | 100.1 |
| 122.5° | 151.9 | 121.6 | 119.8 | 113.1 | 106.2 |
| 125° | 156.1 | 129.6 | 128.1 | 121.8 | 115.6 |
| 127.5° | 160.3 | 137.3 | 135.8 | 129.4 | 123.2 |
| 130° | 163.4 | 142.5 | 140.8 | 134.1 | 127.3 |
| 132.5° | 165.9 | 146.7 | 145.0 | 138.3 | 131.5 |
| 135° | 168.6 | 151.6 | 150.1 | 143.9 | 137.8 |
| 137.5° | 172.7 | 157.9 | 156.3 | 150.3 | 144.2 |
| 140° | 175.2 | 162.1 | 160.7 | 155.1 | 149.4 |
| 142.5° | 177.2 | 165.2 | 163.9 | 158.7 | 153.5 |
| 145° | 180.0 | 170.0 | 168.8 | 164.3 | 159.8 |
| 147.5° | 184.0 | 176.0 | 174.9 | 170.4 | 166.0 |
| 150° | 186.1 | 179.1 | 178.1 | 174.1 | 170.1 |
| 152.5° | 187.5 | 181.1 | 180.4 | 177.3 | 174.3 |
| 155° | 190.4 | 185.6 | 185.1 | 182.8 | 180.6 |
| 157.5° | 193.4 | 190.1 | 189.5 | 187.4 | 185.2 |
| 160° | 194.8 | 192.2 | 191.7 | 190.1 | 188.4 |
| 162.5° | 196.2 | 194.3 | 194.0 | 192.7 | 191.4 |
| 165° | 198.3 | 197.4 | 197.1 | 196.0 | 194.9 |
| 167.5° | 200.0 | 199.2 | 199.0 | 198.5 | 198.0 |
| 170° | 201.3 | 201.2 | 201.1 | 200.6 | 200.0 |
| 172.5° | 201.4 | 201.4 | 201.4 | 201.2 | 201.1 |
| 175° | 202.2 | 202.7 | 202.7 | 202.7 | 202.7 |
| 177.5° | 202.3 | 202.7 | 202.7 | 202.7 | 202.7 |
| 180° | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 |



TEST NUMBER: P933963

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-4000K

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 | 14.35 | 15.48 | 15.07 | 16.22 | 17.11 | 17.18 | 18.30 | 17.90 | 19.05 | 19.93 |
| | 3H | 14.85 | 15.86 | 15.59 | 16.61 | 17.53 | 18.54 | 19.55 | 19.28 | 20.31 | 21.22 |
| | 4H | 15.05 | 16.01 | 15.81 | 16.77 | 17.70 | 19.00 | 19.95 | 19.75 | 20.71 | 21.64 |
| | 6H | 15.19 | 16.07 | 15.95 | 16.84 | 17.78 | 19.29 | 20.18 | 20.06 | 20.95 | 21.89 |
| | 8H | 15.20 | 16.03 | 15.97 | 16.82 | 17.77 | 19.38 | 20.22 | 20.15 | 21.00 | 21.95 |
| | 12H | 15.18 | 15.98 | 15.96 | 16.76 | 17.73 | 19.42 | 20.22 | 20.20 | 21.01 | 21.98 |
| 4H | 2H | 15.42 | 16.37 | 16.17 | 17.13 | 18.06 | 17.62 | 18.57 | 18.38 | 19.34 | 20.26 |
| | 3H | 16.47 | 17.26 | 17.24 | 18.06 | 19.00 | 19.15 | 19.94 | 19.92 | 20.74 | 21.68 |
| | 4H | 16.76 | 17.48 | 17.54 | 18.28 | 19.25 | 19.69 | 20.41 | 20.47 | 21.21 | 22.18 |
| | 6H | 16.90 | 17.52 | 17.70 | 18.34 | 19.32 | 20.07 | 20.69 | 20.87 | 21.51 | 22.49 |
| | 8H | 16.91 | 17.49 | 17.71 | 18.31 | 19.30 | 20.18 | 20.76 | 20.98 | 21.58 | 22.57 |
| | 12H | 16.89 | 17.41 | 17.71 | 18.25 | 19.25 | 20.25 | 20.77 | 21.07 | 21.61 | 22.61 |
| 8H | 4H | 17.23 | 17.81 | 18.04 | 18.63 | 19.62 | 19.83 | 20.42 | 20.64 | 21.23 | 22.23 |
| | 6H | 17.50 | 17.99 | 18.34 | 18.85 | 19.84 | 20.28 | 20.76 | 21.11 | 21.62 | 22.61 |
| | 8H | 17.55 | 17.98 | 18.39 | 18.83 | 19.84 | 20.43 | 20.86 | 21.28 | 21.72 | 22.73 |
| | 12H | 17.54 | 17.92 | 18.39 | 18.77 | 19.84 | 20.54 | 20.92 | 21.39 | 21.77 | 22.83 |
| 12H | 4H | 17.25 | 17.77 | 18.07 | 18.61 | 19.61 | 19.81 | 20.34 | 20.64 | 21.17 | 22.17 |
| | 6H | 17.56 | 18.00 | 18.41 | 18.85 | 19.86 | 20.28 | 20.71 | 21.12 | 21.56 | 22.57 |
| | 8H | 17.64 | 18.02 | 18.49 | 18.87 | 19.94 | 20.45 | 20.83 | 21.30 | 21.68 | 22.74 |