

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: P934291

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

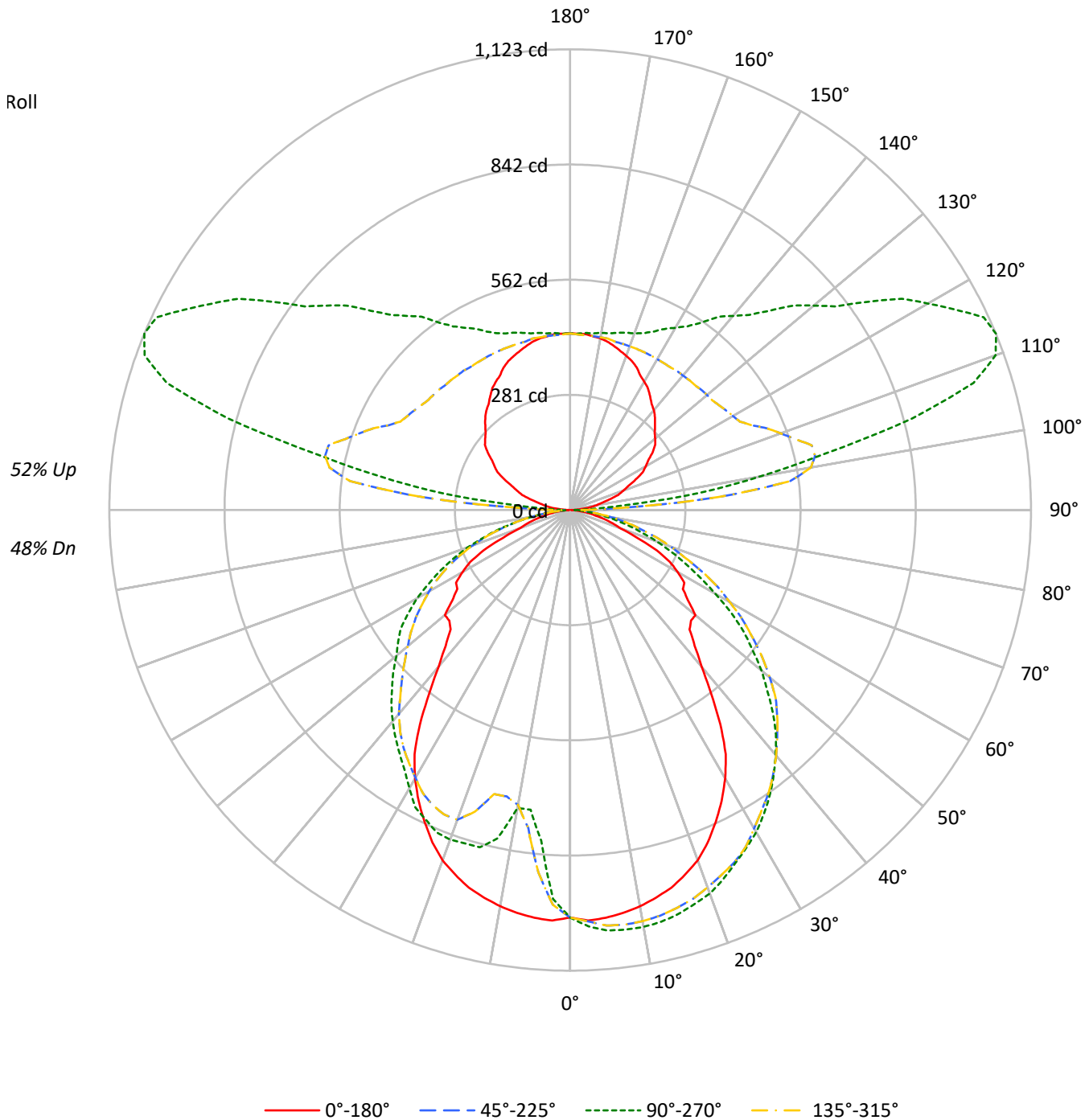
Test Method: LM-79-2019  
Report Number: P934291  
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5365.8 lumens  
Efficiency: N/A  
Efficacy: 126.0 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): 42.6  
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: P934291  
CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 | 48 | 48 |
| 1   | 97  | 93  | 89  | 86  | 89 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 | 41 | 41 | 41 |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | 34 | 34 | 34 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 | 29 | 29 |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 33 | 31 | 28 | 25 | 25 | 25 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 | 21 | 21 |
| 6   | 62  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 | 19 | 19 |
| 7   | 58  | 45  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 | 17 | 17 |
| 8   | 54  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 | 15 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 | 13 | 13 |
| 10  | 47  | 34  | 27  | 22  | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 20 | 16 | 14 | 12 | 12 | 12 |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6143 | 6143 | 6143 | 6143 |
| 5°  | 6187 | 6202 | 6187 | 4876 |
| 10° | 6144 | 6109 | 6144 | 4368 |
| 15° | 6075 | 5977 | 6075 | 4990 |
| 20° | 5945 | 5820 | 5945 | 5001 |
| 25° | 5683 | 5591 | 5683 | 4895 |
| 30° | 5345 | 5401 | 5345 | 4663 |
| 35° | 4763 | 5161 | 4763 | 4407 |
| 40° | 3966 | 4879 | 3966 | 4214 |
| 45° | 3541 | 4547 | 3541 | 3991 |
| 50° | 3760 | 4153 | 3760 | 3769 |
| 55° | 3533 | 3727 | 3533 | 3639 |
| 60° | 3638 | 3166 | 3638 | 3333 |
| 65° | 3293 | 2617 | 3293 | 2925 |
| 70° | 2274 | 2085 | 2274 | 2452 |
| 75° | 1989 | 1542 | 1989 | 1846 |
| 80° | 1588 | 1018 | 1588 | 1110 |
| 85° | 894  | 539  | 894  | 458  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5432 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.6   | 1.7       |
| 10°-20°   | 254.5  | 4.7       |
| 20°-30°   | 393.5  | 7.3       |
| 30°-40°   | 469.7  | 8.8       |
| 40°-50°   | 472.5  | 8.8       |
| 50°-60°   | 411.1  | 7.7       |
| 60°-70°   | 291.5  | 5.4       |
| 70°-80°   | 154.2  | 2.9       |
| 80°-90°   | 40.0   | 0.7       |
| 90°-100°  | 209.7  | 3.9       |
| 100°-110° | 551.4  | 10.3      |
| 110°-120° | 571.7  | 10.7      |
| 120°-130° | 458.6  | 8.5       |
| 130°-140° | 359.8  | 6.7       |
| 140°-150° | 276.2  | 5.1       |
| 150°-160° | 198.9  | 3.7       |
| 160°-170° | 121.7  | 2.3       |
| 170°-180° | 41.1   | 0.8       |
| 0°-30°    | 737.7  | 13.7      |
| 0°-40°    | 1207.4 | 22.5      |
| 0°-60°    | 2090.9 | 39.0      |
| 0°-90°    | 2576.7 | 48.0      |
| 90°-120°  | 1332.8 | 24.8      |
| 90°-150°  | 2427.4 | 45.2      |
| 90°-180°  | 2789.0 | 52.0      |
| 0°-180°   | 5365.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90°  | 180° | 270° | 360° | Flux |
|------|-----|------|------|------|------|------|
| 0°   | 993 | 993  | 993  | 993  | 993  |      |
| 5°   | 998 | 1029 | 998  | 809  | 998  | 95   |
| 15°  | 953 | 1020 | 953  | 851  | 953  | 268  |
| 25°  | 839 | 951  | 839  | 832  | 839  | 385  |
| 35°  | 638 | 848  | 638  | 724  | 638  | 395  |
| 45°  | 412 | 699  | 412  | 614  | 412  | 330  |
| 55°  | 335 | 516  | 335  | 504  | 335  | 308  |
| 65°  | 233 | 311  | 233  | 348  | 233  | 223  |
| 75°  | 88  | 148  | 88   | 177  | 88   | 93   |
| 85°  | 15  | 38   | 15   | 32   | 15   | 20   |
| 90°  | 3   | 11   | 3    | 11   | 3    | 3    |
| 95°  | 28  | 127  | 28   | 127  | 28   | 31   |
| 105° | 99  | 863  | 99   | 863  | 99   | 105  |
| 115° | 176 | 1112 | 176  | 1112 | 176  | 174  |
| 125° | 246 | 885  | 246  | 885  | 246  | 218  |
| 135° | 292 | 687  | 292  | 687  | 292  | 226  |
| 145° | 339 | 557  | 339  | 557  | 339  | 213  |
| 155° | 384 | 480  | 384  | 480  | 384  | 176  |
| 165° | 414 | 447  | 414  | 447  | 414  | 117  |
| 175° | 430 | 433  | 430  | 433  | 430  | 41   |
| 180° | 430 | 430  | 430  | 430  | 430  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  |
| 2.5°   | 1001.6 | 1001.6 | 1007.2 | 1009.1 | 1009.1 | 1006.3 | 1003.5 | 1006.3 | 1014.8 | 1017.6 | 1016.7 |
| 5°     | 997.8  | 1005.4 | 1015.7 | 1017.6 | 1019.5 | 1018.5 | 1016.7 | 1018.5 | 1027.9 | 1029.8 | 1030.8 |
| 7.5°   | 990.3  | 1004.4 | 1017.6 | 1020.4 | 1023.2 | 1020.4 | 1019.5 | 1021.3 | 1030.8 | 1032.6 | 1032.6 |
| 10°    | 980.9  | 1000.7 | 1015.7 | 1017.6 | 1020.4 | 1017.6 | 1017.6 | 1021.3 | 1030.8 | 1032.6 | 1033.6 |
| 12.5°  | 967.8  | 995.0  | 1009.1 | 1011.0 | 1014.8 | 1013.9 | 1012.8 | 1016.7 | 1026.0 | 1027.9 | 1027.9 |
| 15°    | 952.8  | 984.7  | 997.8  | 999.8  | 1006.3 | 1004.4 | 1004.4 | 1008.2 | 1018.5 | 1021.3 | 1020.4 |
| 17.5°  | 932.0  | 971.5  | 986.6  | 989.4  | 994.1  | 993.1  | 994.1  | 997.8  | 1007.2 | 1009.1 | 1010.0 |
| 20°    | 908.6  | 953.7  | 971.5  | 974.3  | 979.0  | 979.0  | 979.0  | 983.8  | 993.1  | 996.9  | 996.9  |
| 22.5°  | 876.7  | 934.8  | 953.7  | 955.6  | 961.2  | 961.2  | 963.0  | 969.7  | 978.1  | 979.0  | 979.0  |
| 25°    | 839.0  | 914.2  | 930.2  | 935.9  | 941.5  | 944.3  | 947.1  | 950.9  | 953.7  | 952.8  | 953.7  |
| 27.5°  | 799.6  | 887.9  | 908.6  | 912.3  | 919.9  | 922.7  | 926.4  | 927.4  | 928.3  | 931.1  | 929.2  |
| 30°    | 755.4  | 851.2  | 882.3  | 886.0  | 898.2  | 900.1  | 896.4  | 898.2  | 902.9  | 904.9  | 906.7  |
| 32.5°  | 705.6  | 796.8  | 855.0  | 863.5  | 874.8  | 869.1  | 868.2  | 871.0  | 878.5  | 878.5  | 880.4  |
| 35°    | 638.0  | 754.5  | 829.7  | 837.1  | 845.6  | 839.0  | 842.8  | 843.8  | 848.4  | 851.2  | 850.3  |
| 37.5°  | 563.8  | 717.9  | 803.3  | 808.9  | 815.6  | 807.1  | 812.8  | 815.6  | 819.3  | 817.4  | 817.4  |
| 40°    | 498.0  | 660.5  | 772.3  | 776.1  | 781.8  | 775.1  | 780.8  | 782.7  | 784.6  | 782.7  | 781.8  |
| 42.5°  | 449.2  | 597.6  | 739.4  | 744.1  | 740.4  | 745.1  | 747.0  | 750.7  | 747.9  | 744.1  | 744.1  |
| 45°    | 411.5  | 580.7  | 703.8  | 709.4  | 703.8  | 711.2  | 714.0  | 714.0  | 705.6  | 703.8  | 702.8  |
| 47.5°  | 399.3  | 546.9  | 668.1  | 668.1  | 665.2  | 674.6  | 679.3  | 672.8  | 664.3  | 661.5  | 661.5  |
| 50°    | 398.4  | 509.2  | 619.1  | 615.4  | 628.6  | 639.9  | 635.1  | 628.6  | 622.0  | 611.7  | 611.7  |
| 52.5°  | 361.7  | 463.2  | 556.2  | 570.3  | 591.0  | 597.6  | 590.1  | 583.5  | 572.2  | 567.5  | 563.8  |
| 55°    | 335.4  | 415.3  | 498.9  | 527.1  | 548.7  | 557.1  | 543.1  | 536.5  | 519.6  | 516.8  | 514.9  |
| 57.5°  | 329.8  | 345.8  | 446.3  | 482.0  | 508.3  | 507.3  | 498.9  | 486.7  | 472.6  | 469.8  | 468.9  |
| 60°    | 302.5  | 249.9  | 389.9  | 432.3  | 459.4  | 456.6  | 449.2  | 437.9  | 424.7  | 422.8  | 421.0  |
| 62.5°  | 274.3  | 181.4  | 326.1  | 374.0  | 412.5  | 411.5  | 405.0  | 388.1  | 378.6  | 374.0  | 370.2  |
| 65°    | 233.0  | 152.2  | 232.1  | 311.0  | 366.4  | 368.3  | 354.3  | 342.0  | 331.7  | 326.1  | 325.1  |
| 67.5°  | 177.6  | 124.0  | 156.9  | 259.4  | 322.3  | 320.4  | 302.5  | 296.9  | 283.7  | 280.9  | 275.3  |
| 70°    | 131.5  | 82.7   | 109.0  | 210.4  | 279.1  | 274.3  | 260.3  | 253.7  | 241.4  | 234.9  | 231.2  |
| 72.5°  | 109.0  | 66.7   | 79.9   | 163.5  | 234.9  | 229.3  | 217.1  | 209.5  | 199.2  | 193.5  | 189.8  |
| 75°    | 88.4   | 70.4   | 61.1   | 121.2  | 190.7  | 187.0  | 175.7  | 168.2  | 159.7  | 152.2  | 153.2  |
| 77.5°  | 64.8   | 65.8   | 48.8   | 89.3   | 151.3  | 145.6  | 139.1  | 129.6  | 125.9  | 118.4  | 118.4  |
| 80°    | 48.8   | 51.7   | 36.6   | 61.1   | 109.0  | 109.0  | 103.4  | 96.8   | 90.2   | 86.5   | 86.5   |
| 82.5°  | 32.9   | 32.9   | 27.3   | 38.5   | 74.3   | 71.5   | 67.6   | 65.8   | 62.0   | 60.1   | 60.1   |
| 85°    | 15.0   | 18.8   | 16.9   | 23.4   | 40.4   | 42.3   | 42.3   | 40.4   | 39.5   | 37.5   | 38.5   |
| 87.5°  | 4.7    | 8.5    | 10.4   | 13.2   | 20.6   | 21.6   | 22.5   | 22.5   | 22.5   | 23.4   | 23.4   |
| 90°    | 2.9    | 5.2    | 7.6    | 8.1    | 12.7   | 18.9   | 21.9   | 19.5   | 14.6   | 10.9   | 10.9   |
| 92.5°  | 11.6   | 31.2   | 50.8   | 55.8   | 78.4   | 108.5  | 123.6  | 108.3  | 77.7   | 54.8   | 52.7   |
| 95°    | 27.7   | 63.6   | 99.6   | 108.5  | 192.8  | 305.1  | 361.3  | 322.4  | 244.6  | 186.2  | 179.6  |
| 97.5°  | 47.9   | 79.7   | 111.3  | 119.3  | 259.7  | 447.0  | 540.6  | 516.0  | 466.8  | 429.9  | 417.3  |
| 100°   | 63.5   | 92.3   | 121.0  | 128.2  | 284.0  | 491.8  | 595.7  | 597.5  | 601.1  | 603.8  | 588.9  |
| 102.5° | 76.8   | 103.7  | 130.5  | 137.2  | 295.2  | 505.9  | 611.3  | 642.6  | 705.3  | 752.2  | 739.4  |
| 105°   | 99.4   | 122.1  | 144.8  | 150.5  | 303.5  | 507.5  | 609.5  | 679.8  | 820.1  | 925.5  | 918.6  |
| 107.5° | 122.4  | 143.6  | 164.8  | 170.1  | 305.0  | 484.9  | 574.9  | 672.8  | 868.6  | 1015.5 | 1017.2 |
| 110°   | 138.0  | 157.1  | 176.2  | 181.0  | 302.7  | 464.9  | 546.0  | 655.5  | 874.5  | 1038.7 | 1045.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 153.4 | 171.6 | 189.8 | 194.4 | 302.8 | 447.5 | 519.8 | 631.9 | 855.9 | 1023.9 | 1035.0 |
| 115°   | 176.4 | 193.2 | 210.1 | 214.3 | 305.6 | 427.4 | 488.3 | 596.3 | 812.1 | 974.0  | 989.3  |
| 117.5° | 199.2 | 214.5 | 229.8 | 233.6 | 311.3 | 414.9 | 466.6 | 564.0 | 758.9 | 905.0  | 922.0  |
| 120°   | 212.5 | 226.9 | 241.3 | 244.9 | 315.9 | 410.6 | 457.9 | 547.0 | 725.0 | 858.4  | 875.0  |
| 122.5° | 225.6 | 240.0 | 254.5 | 258.2 | 322.5 | 408.3 | 451.3 | 531.4 | 691.8 | 812.0  | 828.3  |
| 125°   | 245.5 | 258.6 | 271.9 | 275.2 | 331.5 | 406.6 | 444.1 | 512.2 | 648.4 | 750.5  | 765.4  |
| 127.5° | 261.6 | 275.0 | 288.3 | 291.7 | 340.4 | 405.5 | 438.0 | 496.5 | 613.4 | 701.1  | 713.7  |
| 130°   | 270.3 | 284.7 | 299.1 | 302.6 | 347.0 | 406.1 | 435.7 | 487.7 | 591.9 | 670.0  | 681.6  |
| 132.5° | 279.3 | 293.6 | 308.0 | 311.6 | 352.3 | 406.6 | 433.7 | 480.4 | 573.5 | 643.3  | 653.8  |
| 135°   | 292.5 | 305.6 | 318.7 | 321.9 | 358.1 | 406.2 | 430.3 | 469.3 | 547.3 | 605.8  | 614.9  |
| 137.5° | 306.1 | 319.1 | 331.9 | 335.2 | 366.7 | 408.6 | 429.6 | 462.6 | 528.6 | 578.1  | 585.4  |
| 140°   | 317.4 | 329.3 | 341.2 | 344.2 | 372.0 | 409.1 | 427.7 | 456.2 | 513.1 | 555.8  | 562.7  |
| 142.5° | 326.0 | 337.0 | 348.0 | 350.8 | 376.4 | 410.6 | 427.7 | 452.7 | 502.7 | 540.2  | 546.2  |
| 145°   | 339.3 | 348.9 | 358.6 | 361.0 | 382.3 | 410.6 | 424.8 | 445.2 | 486.1 | 516.9  | 521.4  |
| 147.5° | 352.6 | 361.9 | 371.4 | 373.7 | 390.7 | 413.4 | 424.8 | 440.8 | 473.1 | 497.3  | 501.0  |
| 150°   | 361.3 | 369.8 | 378.2 | 380.3 | 395.2 | 414.9 | 424.8 | 438.4 | 465.6 | 486.0  | 488.9  |
| 152.5° | 370.1 | 376.6 | 383.0 | 384.6 | 398.0 | 415.8 | 424.8 | 436.4 | 459.6 | 477.0  | 479.2  |
| 155°   | 383.5 | 388.3 | 392.9 | 394.1 | 404.3 | 418.0 | 424.8 | 434.0 | 452.5 | 466.3  | 467.8  |
| 157.5° | 393.3 | 397.9 | 402.6 | 403.7 | 410.7 | 420.1 | 424.8 | 432.0 | 446.4 | 457.1  | 458.1  |
| 160°   | 399.9 | 403.5 | 407.0 | 408.0 | 413.6 | 421.0 | 424.8 | 430.9 | 443.3 | 452.5  | 453.1  |
| 162.5° | 406.6 | 409.3 | 412.0 | 412.6 | 416.7 | 422.1 | 424.8 | 430.0 | 440.4 | 448.1  | 448.7  |
| 165°   | 413.8 | 416.2 | 418.6 | 419.3 | 421.1 | 423.6 | 424.8 | 428.5 | 435.9 | 441.5  | 442.2  |
| 167.5° | 420.4 | 421.5 | 422.7 | 423.0 | 424.6 | 426.7 | 427.7 | 430.1 | 435.0 | 438.6  | 438.9  |
| 170°   | 424.8 | 425.9 | 427.1 | 427.4 | 427.5 | 427.6 | 427.7 | 430.1 | 435.0 | 438.6  | 438.6  |
| 172.5° | 427.1 | 427.4 | 427.6 | 427.7 | 427.7 | 427.7 | 427.7 | 429.5 | 433.4 | 436.3  | 436.1  |
| 175°   | 430.3 | 430.3 | 430.3 | 430.3 | 429.5 | 428.2 | 427.7 | 428.9 | 431.3 | 433.1  | 433.1  |
| 177.5° | 430.3 | 430.3 | 430.3 | 430.3 | 429.6 | 428.7 | 428.2 | 429.2 | 431.1 | 432.5  | 432.3  |
| 180°   | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3  | 430.3  |



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CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  |
| 2.5°   | 1018.5 | 1015.7 | 1018.5 | 1016.7 | 1017.6 | 1014.8 | 1006.3 | 1003.5 | 1006.3 | 1009.1 | 1009.1 |
| 5°     | 1030.8 | 1028.8 | 1030.8 | 1030.8 | 1029.8 | 1027.9 | 1018.5 | 1016.7 | 1018.5 | 1019.5 | 1017.6 |
| 7.5°   | 1034.5 | 1031.7 | 1034.5 | 1032.6 | 1032.6 | 1030.8 | 1021.3 | 1019.5 | 1020.4 | 1023.2 | 1020.4 |
| 10°    | 1034.5 | 1031.7 | 1034.5 | 1033.6 | 1032.6 | 1030.8 | 1021.3 | 1017.6 | 1017.6 | 1020.4 | 1017.6 |
| 12.5°  | 1029.8 | 1027.9 | 1029.8 | 1027.9 | 1027.9 | 1026.0 | 1016.7 | 1012.8 | 1013.9 | 1014.8 | 1011.0 |
| 15°    | 1022.3 | 1019.5 | 1022.3 | 1020.4 | 1021.3 | 1018.5 | 1008.2 | 1004.4 | 1004.4 | 1006.3 | 999.8  |
| 17.5°  | 1011.0 | 1007.2 | 1011.0 | 1010.0 | 1009.1 | 1007.2 | 997.8  | 994.1  | 993.1  | 994.1  | 989.4  |
| 20°    | 997.8  | 995.0  | 997.8  | 996.9  | 996.9  | 993.1  | 983.8  | 979.0  | 979.0  | 979.0  | 974.3  |
| 22.5°  | 977.2  | 974.3  | 977.2  | 979.0  | 979.0  | 978.1  | 969.7  | 963.0  | 961.2  | 961.2  | 955.6  |
| 25°    | 953.7  | 950.9  | 953.7  | 953.7  | 952.8  | 953.7  | 950.9  | 947.1  | 944.3  | 941.5  | 935.9  |
| 27.5°  | 931.1  | 929.2  | 931.1  | 929.2  | 931.1  | 928.3  | 927.4  | 926.4  | 922.7  | 919.9  | 912.3  |
| 30°    | 908.6  | 906.7  | 908.6  | 906.7  | 904.9  | 902.9  | 898.2  | 896.4  | 900.1  | 898.2  | 886.0  |
| 32.5°  | 880.4  | 878.5  | 880.4  | 880.4  | 878.5  | 878.5  | 871.0  | 868.2  | 869.1  | 874.8  | 863.5  |
| 35°    | 851.2  | 848.4  | 851.2  | 850.3  | 851.2  | 848.4  | 843.8  | 842.8  | 839.0  | 845.6  | 837.1  |
| 37.5°  | 817.4  | 814.6  | 817.4  | 817.4  | 817.4  | 819.3  | 815.6  | 812.8  | 807.1  | 815.6  | 808.9  |
| 40°    | 782.7  | 779.0  | 782.7  | 781.8  | 782.7  | 784.6  | 782.7  | 780.8  | 775.1  | 781.8  | 776.1  |
| 42.5°  | 743.2  | 742.2  | 743.2  | 744.1  | 744.1  | 747.9  | 750.7  | 747.0  | 745.1  | 740.4  | 744.1  |
| 45°    | 701.0  | 699.0  | 701.0  | 702.8  | 703.8  | 705.6  | 714.0  | 714.0  | 711.2  | 703.8  | 709.4  |
| 47.5°  | 655.9  | 651.1  | 655.9  | 661.5  | 661.5  | 664.3  | 672.8  | 679.3  | 674.6  | 665.2  | 668.1  |
| 50°    | 607.9  | 608.9  | 607.9  | 611.7  | 611.7  | 622.0  | 628.6  | 635.1  | 639.9  | 628.6  | 615.4  |
| 52.5°  | 561.0  | 560.0  | 561.0  | 563.8  | 567.5  | 572.2  | 583.5  | 590.1  | 597.6  | 591.0  | 570.3  |
| 55°    | 514.0  | 515.8  | 514.0  | 514.9  | 516.8  | 519.6  | 536.5  | 543.1  | 557.1  | 548.7  | 527.1  |
| 57.5°  | 467.0  | 464.2  | 467.0  | 468.9  | 469.8  | 472.6  | 486.7  | 498.9  | 507.3  | 508.3  | 482.0  |
| 60°    | 412.5  | 408.7  | 412.5  | 421.0  | 422.8  | 424.7  | 437.9  | 449.2  | 456.6  | 459.4  | 432.3  |
| 62.5°  | 364.5  | 358.0  | 364.5  | 370.2  | 374.0  | 378.6  | 388.1  | 405.0  | 411.5  | 412.5  | 374.0  |
| 65°    | 313.8  | 311.0  | 313.8  | 325.1  | 326.1  | 331.7  | 342.0  | 354.3  | 368.3  | 366.4  | 311.0  |
| 67.5°  | 267.8  | 267.8  | 267.8  | 275.3  | 280.9  | 283.7  | 296.9  | 302.5  | 320.4  | 322.3  | 259.4  |
| 70°    | 225.5  | 224.5  | 225.5  | 231.2  | 234.9  | 241.4  | 253.7  | 260.3  | 274.3  | 279.1  | 210.4  |
| 72.5°  | 185.1  | 184.2  | 185.1  | 189.8  | 193.5  | 199.2  | 209.5  | 217.1  | 229.3  | 234.9  | 163.5  |
| 75°    | 149.4  | 147.5  | 149.4  | 153.2  | 152.2  | 159.7  | 168.2  | 175.7  | 187.0  | 190.7  | 121.2  |
| 77.5°  | 114.6  | 114.6  | 114.6  | 118.4  | 118.4  | 125.9  | 129.6  | 139.1  | 145.6  | 151.3  | 89.3   |
| 80°    | 85.5   | 84.5   | 85.5   | 86.5   | 86.5   | 90.2   | 96.8   | 103.4  | 109.0  | 109.0  | 61.1   |
| 82.5°  | 60.1   | 58.3   | 60.1   | 60.1   | 60.1   | 62.0   | 65.8   | 67.6   | 71.5   | 74.3   | 38.5   |
| 85°    | 37.5   | 37.5   | 37.5   | 38.5   | 37.5   | 39.5   | 40.4   | 42.3   | 42.3   | 40.4   | 23.4   |
| 87.5°  | 24.5   | 23.4   | 24.5   | 23.4   | 23.4   | 22.5   | 22.5   | 22.5   | 21.6   | 20.6   | 13.2   |
| 90°    | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 14.6   | 19.5   | 21.9   | 18.9   | 12.7   | 8.1    |
| 92.5°  | 43.9   | 35.2   | 43.9   | 52.7   | 54.8   | 77.7   | 108.3  | 123.6  | 108.5  | 78.4   | 55.8   |
| 95°    | 153.2  | 126.7  | 153.2  | 179.6  | 186.2  | 244.6  | 322.4  | 361.3  | 305.1  | 192.8  | 108.5  |
| 97.5°  | 367.1  | 316.8  | 367.1  | 417.3  | 429.9  | 466.8  | 516.0  | 540.6  | 447.0  | 259.7  | 119.3  |
| 100°   | 528.9  | 469.0  | 528.9  | 588.9  | 603.8  | 601.1  | 597.5  | 595.7  | 491.8  | 284.0  | 128.2  |
| 102.5° | 688.1  | 636.7  | 688.1  | 739.4  | 752.2  | 705.3  | 642.6  | 611.3  | 505.9  | 295.2  | 137.2  |
| 105°   | 891.0  | 863.4  | 891.0  | 918.6  | 925.5  | 820.1  | 679.8  | 609.5  | 507.5  | 303.5  | 150.5  |
| 107.5° | 1023.9 | 1030.6 | 1023.9 | 1017.2 | 1015.5 | 868.6  | 672.8  | 574.9  | 484.9  | 305.0  | 170.1  |
| 110°   | 1074.6 | 1103.3 | 1074.6 | 1045.9 | 1038.7 | 874.5  | 655.5  | 546.0  | 464.9  | 302.7  | 181.0  |





TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 1079.1 | 1123.2 | 1079.1 | 1035.0 | 1023.9 | 855.9 | 631.9 | 519.8 | 447.5 | 302.8 | 194.4  |
| 115°   | 1050.5 | 1111.7 | 1050.5 | 989.3  | 974.0  | 812.1 | 596.3 | 488.3 | 427.4 | 305.6 | 214.3  |
| 117.5° | 989.9  | 1057.8 | 989.9  | 922.0  | 905.0  | 758.9 | 564.0 | 466.6 | 414.9 | 311.3 | 233.6  |
| 120°   | 940.9  | 1006.9 | 940.9  | 875.0  | 858.4  | 725.0 | 547.0 | 457.9 | 410.6 | 315.9 | 244.9  |
| 122.5° | 893.4  | 958.4  | 893.4  | 828.3  | 812.0  | 691.8 | 531.4 | 451.3 | 408.3 | 322.5 | 258.2  |
| 125°   | 825.4  | 885.3  | 825.4  | 765.4  | 750.5  | 648.4 | 512.2 | 444.1 | 406.6 | 331.5 | 275.2  |
| 127.5° | 764.3  | 814.9  | 764.3  | 713.7  | 701.1  | 613.4 | 496.5 | 438.0 | 405.5 | 340.4 | 291.7  |
| 130°   | 728.3  | 775.0  | 728.3  | 681.6  | 670.0  | 591.9 | 487.7 | 435.7 | 406.1 | 347.0 | 302.6  |
| 132.5° | 695.6  | 737.5  | 695.6  | 653.8  | 643.3  | 573.5 | 480.4 | 433.7 | 406.6 | 352.3 | 311.6  |
| 135°   | 650.9  | 687.0  | 650.9  | 614.9  | 605.8  | 547.3 | 469.3 | 430.3 | 406.2 | 358.1 | 321.9  |
| 137.5° | 615.0  | 644.6  | 615.0  | 585.4  | 578.1  | 528.6 | 462.6 | 429.6 | 408.6 | 366.7 | 335.2  |
| 140°   | 590.3  | 617.9  | 590.3  | 562.7  | 555.8  | 513.1 | 456.2 | 427.7 | 409.1 | 372.0 | 344.2  |
| 142.5° | 569.9  | 593.7  | 569.9  | 546.2  | 540.2  | 502.7 | 452.7 | 427.7 | 410.6 | 376.4 | 350.8  |
| 145°   | 539.4  | 557.3  | 539.4  | 521.4  | 516.9  | 486.1 | 445.2 | 424.8 | 410.6 | 382.3 | 361.0  |
| 147.5° | 515.8  | 530.7  | 515.8  | 501.0  | 497.3  | 473.1 | 440.8 | 424.8 | 413.4 | 390.7 | 373.7  |
| 150°   | 501.1  | 513.1  | 501.1  | 488.9  | 486.0  | 465.6 | 438.4 | 424.8 | 414.9 | 395.2 | 380.3  |
| 152.5° | 488.4  | 497.5  | 488.4  | 479.2  | 477.0  | 459.6 | 436.4 | 424.8 | 415.8 | 398.0 | 384.6  |
| 155°   | 473.9  | 479.9  | 473.9  | 467.8  | 466.3  | 452.5 | 434.0 | 424.8 | 418.0 | 404.3 | 394.1  |
| 157.5° | 462.4  | 466.6  | 462.4  | 458.1  | 457.1  | 446.4 | 432.0 | 424.8 | 420.1 | 410.7 | 403.7  |
| 160°   | 455.5  | 457.9  | 455.5  | 453.1  | 452.5  | 443.3 | 430.9 | 424.8 | 421.0 | 413.6 | 408.0  |
| 162.5° | 451.0  | 453.4  | 451.0  | 448.7  | 448.1  | 440.4 | 430.0 | 424.8 | 422.1 | 416.7 | 412.6  |
| 165°   | 444.6  | 447.0  | 444.6  | 442.2  | 441.5  | 435.9 | 428.5 | 424.8 | 423.6 | 421.1 | 419.3  |
| 167.5° | 439.9  | 440.9  | 439.9  | 438.9  | 438.6  | 435.0 | 430.1 | 427.7 | 426.7 | 424.6 | 423.0  |
| 170°   | 438.6  | 438.6  | 438.6  | 438.6  | 438.6  | 435.0 | 430.1 | 427.7 | 427.6 | 427.5 | 427.4  |
| 172.5° | 435.2  | 434.3  | 435.2  | 436.1  | 436.3  | 433.4 | 429.5 | 427.7 | 427.7 | 427.7 | 427.7  |
| 175°   | 433.1  | 433.1  | 433.1  | 433.1  | 433.1  | 431.3 | 428.9 | 427.7 | 428.2 | 429.5 | 430.3  |
| 177.5° | 431.3  | 430.3  | 431.3  | 432.3  | 432.5  | 431.1 | 429.2 | 428.2 | 428.7 | 429.6 | 430.3  |
| 180°   | 430.3  | 430.3  | 430.3  | 430.3  | 430.3  | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3  |



TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°   | 170°   | 180°   | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|--------|--------|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 993.1  | 993.1  | 993.1  | 993.1 | 993.1 | 993.1  | 993.1 | 993.1 | 993.1 | 993.1 | 993.1 |
| 2.5°   | 1007.2 | 1001.6 | 1001.6 | 992.2 | 988.5 | 985.7  | 980.9 | 966.9 | 963.0 | 959.3 | 964.9 |
| 5°     | 1015.7 | 1005.4 | 997.8  | 980.9 | 966.9 | 961.2  | 943.3 | 909.5 | 886.9 | 870.0 | 860.7 |
| 7.5°   | 1017.6 | 1004.4 | 990.3  | 964.0 | 930.2 | 915.1  | 860.7 | 798.7 | 781.8 | 766.7 | 757.3 |
| 10°    | 1015.7 | 1000.7 | 980.9  | 941.5 | 861.6 | 835.3  | 780.8 | 740.4 | 730.0 | 727.2 | 730.0 |
| 12.5°  | 1009.1 | 995.0  | 967.8  | 902.0 | 790.2 | 772.3  | 740.4 | 716.9 | 715.0 | 719.7 | 745.1 |
| 15°    | 997.8  | 984.7  | 952.8  | 849.4 | 750.7 | 737.6  | 715.0 | 706.6 | 716.9 | 749.8 | 825.9 |
| 17.5°  | 986.6  | 971.5  | 932.0  | 797.7 | 720.7 | 711.2  | 695.3 | 712.2 | 770.5 | 814.6 | 839.9 |
| 20°    | 971.5  | 953.7  | 908.6  | 760.1 | 699.0 | 690.6  | 683.0 | 759.2 | 803.3 | 819.3 | 833.4 |
| 22.5°  | 953.7  | 934.8  | 876.7  | 733.8 | 676.5 | 670.0  | 674.6 | 785.5 | 803.3 | 814.6 | 826.9 |
| 25°    | 930.2  | 914.2  | 839.0  | 713.1 | 658.7 | 651.1  | 669.0 | 782.7 | 793.0 | 795.9 | 820.2 |
| 27.5°  | 908.6  | 887.9  | 799.6  | 694.3 | 637.1 | 634.2  | 673.7 | 770.5 | 778.0 | 780.8 | 807.1 |
| 30°    | 882.3  | 851.2  | 755.4  | 674.6 | 614.5 | 613.5  | 674.6 | 755.4 | 753.6 | 761.0 | 787.4 |
| 32.5°  | 855.0  | 796.8  | 705.6  | 650.2 | 592.9 | 592.0  | 668.1 | 732.9 | 731.0 | 741.3 | 761.0 |
| 35°    | 829.7  | 754.5  | 638.0  | 622.0 | 565.6 | 566.6  | 652.0 | 706.6 | 707.5 | 716.9 | 729.1 |
| 37.5°  | 803.3  | 717.9  | 563.8  | 591.0 | 539.3 | 539.3  | 630.4 | 682.1 | 680.2 | 683.0 | 700.0 |
| 40°    | 772.3  | 660.5  | 498.0  | 550.6 | 514.9 | 512.1  | 604.1 | 655.9 | 649.2 | 648.3 | 671.8 |
| 42.5°  | 739.4  | 597.6  | 449.2  | 497.1 | 486.7 | 483.0  | 572.2 | 623.9 | 611.7 | 614.5 | 644.6 |
| 45°    | 703.8  | 580.7  | 411.5  | 420.0 | 457.6 | 454.8  | 537.4 | 587.2 | 578.8 | 586.3 | 617.3 |
| 47.5°  | 668.1  | 546.9  | 399.3  | 348.6 | 426.6 | 425.6  | 498.9 | 551.5 | 546.9 | 554.3 | 587.2 |
| 50°    | 619.1  | 509.2  | 398.4  | 298.8 | 391.8 | 395.5  | 452.9 | 516.8 | 516.8 | 523.3 | 558.2 |
| 52.5°  | 556.2  | 463.2  | 361.7  | 270.6 | 351.4 | 362.7  | 412.5 | 486.7 | 488.6 | 495.2 | 526.1 |
| 55°    | 498.9  | 415.3  | 335.4  | 249.0 | 303.5 | 327.9  | 373.0 | 455.7 | 459.4 | 466.1 | 494.2 |
| 57.5°  | 446.3  | 345.8  | 329.8  | 223.6 | 259.4 | 282.8  | 338.3 | 425.6 | 427.5 | 433.2 | 460.4 |
| 60°    | 389.9  | 249.9  | 302.5  | 196.3 | 220.8 | 238.6  | 306.3 | 389.9 | 396.5 | 400.2 | 423.8 |
| 62.5°  | 326.1  | 181.4  | 274.3  | 177.6 | 202.0 | 205.8  | 280.0 | 356.1 | 364.5 | 367.3 | 381.4 |
| 65°    | 232.1  | 152.2  | 233.0  | 161.6 | 182.3 | 183.3  | 251.8 | 321.3 | 328.9 | 333.5 | 343.9 |
| 67.5°  | 156.9  | 124.0  | 177.6  | 146.5 | 167.3 | 168.2  | 224.5 | 280.9 | 291.3 | 295.1 | 301.6 |
| 70°    | 109.0  | 82.7   | 131.5  | 130.6 | 150.4 | 152.2  | 195.4 | 244.3 | 253.7 | 256.5 | 260.3 |
| 72.5°  | 79.9   | 66.7   | 109.0  | 117.4 | 132.4 | 134.4  | 165.4 | 203.0 | 212.4 | 215.2 | 217.1 |
| 75°    | 61.1   | 70.4   | 88.4   | 102.5 | 112.7 | 113.7  | 135.3 | 165.4 | 171.9 | 173.8 | 174.8 |
| 77.5°  | 48.8   | 65.8   | 64.8   | 82.7  | 92.1  | 90.2   | 106.2 | 127.8 | 133.4 | 133.4 | 133.4 |
| 80°    | 36.6   | 51.7   | 48.8   | 59.2  | 67.6  | 65.8   | 76.1  | 91.2  | 93.0  | 94.9  | 94.0  |
| 82.5°  | 27.3   | 32.9   | 32.9   | 37.5  | 45.1  | 43.2   | 50.7  | 59.2  | 59.2  | 59.2  | 61.1  |
| 85°    | 16.9   | 18.8   | 15.0   | 19.7  | 25.4  | 24.5   | 28.2  | 31.9  | 32.9  | 32.9  | 31.0  |
| 87.5°  | 10.4   | 8.5    | 4.7    | 7.5   | 11.3  | 11.3   | 13.2  | 14.1  | 13.2  | 13.2  | 13.2  |
| 90°    | 7.6    | 5.2    | 2.9    | 5.2   | 7.6   | 8.1    | 12.7  | 18.9  | 21.9  | 19.5  | 14.6  |
| 92.5°  | 50.8   | 31.2   | 11.6   | 31.2  | 50.8  | 55.8   | 78.4  | 108.5 | 123.6 | 108.3 | 77.7  |
| 95°    | 99.6   | 63.6   | 27.7   | 63.6  | 99.6  | 108.5  | 192.8 | 305.1 | 361.3 | 322.4 | 244.6 |
| 97.5°  | 111.3  | 79.7   | 47.9   | 79.7  | 111.3 | 119.3  | 259.7 | 447.0 | 540.6 | 516.0 | 466.8 |
| 100°   | 121.0  | 92.3   | 63.5   | 92.3  | 121.0 | 128.2  | 284.0 | 491.8 | 595.7 | 597.5 | 601.1 |
| 102.5° | 130.5  | 103.7  | 76.8   | 103.7 | 130.5 | 137.2  | 295.2 | 505.9 | 611.3 | 642.6 | 705.3 |
| 105°   | 144.8  | 122.1  | 99.4   | 122.1 | 144.8 | 150.5  | 303.5 | 507.5 | 609.5 | 679.8 | 820.1 |
| 107.5° | 164.8  | 143.6  | 122.4  | 143.6 | 164.8 | 170.1  | 305.0 | 484.9 | 574.9 | 672.8 | 868.6 |
| 110°   | 176.2  | 157.1  | 138.0  | 157.1 | 176.2 | 181.0  | 302.7 | 464.9 | 546.0 | 655.5 | 874.5 |



TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 189.8 | 171.6 | 153.4 | 171.6 | 189.8 | 194.4  | 302.8 | 447.5 | 519.8 | 631.9 | 855.9 |
| 115°   | 210.1 | 193.2 | 176.4 | 193.2 | 210.1 | 214.3  | 305.6 | 427.4 | 488.3 | 596.3 | 812.1 |
| 117.5° | 229.8 | 214.5 | 199.2 | 214.5 | 229.8 | 233.6  | 311.3 | 414.9 | 466.6 | 564.0 | 758.9 |
| 120°   | 241.3 | 226.9 | 212.5 | 226.9 | 241.3 | 244.9  | 315.9 | 410.6 | 457.9 | 547.0 | 725.0 |
| 122.5° | 254.5 | 240.0 | 225.6 | 240.0 | 254.5 | 258.2  | 322.5 | 408.3 | 451.3 | 531.4 | 691.8 |
| 125°   | 271.9 | 258.6 | 245.5 | 258.6 | 271.9 | 275.2  | 331.5 | 406.6 | 444.1 | 512.2 | 648.4 |
| 127.5° | 288.3 | 275.0 | 261.6 | 275.0 | 288.3 | 291.7  | 340.4 | 405.5 | 438.0 | 496.5 | 613.4 |
| 130°   | 299.1 | 284.7 | 270.3 | 284.7 | 299.1 | 302.6  | 347.0 | 406.1 | 435.7 | 487.7 | 591.9 |
| 132.5° | 308.0 | 293.6 | 279.3 | 293.6 | 308.0 | 311.6  | 352.3 | 406.6 | 433.7 | 480.4 | 573.5 |
| 135°   | 318.7 | 305.6 | 292.5 | 305.6 | 318.7 | 321.9  | 358.1 | 406.2 | 430.3 | 469.3 | 547.3 |
| 137.5° | 331.9 | 319.1 | 306.1 | 319.1 | 331.9 | 335.2  | 366.7 | 408.6 | 429.6 | 462.6 | 528.6 |
| 140°   | 341.2 | 329.3 | 317.4 | 329.3 | 341.2 | 344.2  | 372.0 | 409.1 | 427.7 | 456.2 | 513.1 |
| 142.5° | 348.0 | 337.0 | 326.0 | 337.0 | 348.0 | 350.8  | 376.4 | 410.6 | 427.7 | 452.7 | 502.7 |
| 145°   | 358.6 | 348.9 | 339.3 | 348.9 | 358.6 | 361.0  | 382.3 | 410.6 | 424.8 | 445.2 | 486.1 |
| 147.5° | 371.4 | 361.9 | 352.6 | 361.9 | 371.4 | 373.7  | 390.7 | 413.4 | 424.8 | 440.8 | 473.1 |
| 150°   | 378.2 | 369.8 | 361.3 | 369.8 | 378.2 | 380.3  | 395.2 | 414.9 | 424.8 | 438.4 | 465.6 |
| 152.5° | 383.0 | 376.6 | 370.1 | 376.6 | 383.0 | 384.6  | 398.0 | 415.8 | 424.8 | 436.4 | 459.6 |
| 155°   | 392.9 | 388.3 | 383.5 | 388.3 | 392.9 | 394.1  | 404.3 | 418.0 | 424.8 | 434.0 | 452.5 |
| 157.5° | 402.6 | 397.9 | 393.3 | 397.9 | 402.6 | 403.7  | 410.7 | 420.1 | 424.8 | 432.0 | 446.4 |
| 160°   | 407.0 | 403.5 | 399.9 | 403.5 | 407.0 | 408.0  | 413.6 | 421.0 | 424.8 | 430.9 | 443.3 |
| 162.5° | 412.0 | 409.3 | 406.6 | 409.3 | 412.0 | 412.6  | 416.7 | 422.1 | 424.8 | 430.0 | 440.4 |
| 165°   | 418.6 | 416.2 | 413.8 | 416.2 | 418.6 | 419.3  | 421.1 | 423.6 | 424.8 | 428.5 | 435.9 |
| 167.5° | 422.7 | 421.5 | 420.4 | 421.5 | 422.7 | 423.0  | 424.6 | 426.7 | 427.7 | 430.1 | 435.0 |
| 170°   | 427.1 | 425.9 | 424.8 | 425.9 | 427.1 | 427.4  | 427.5 | 427.6 | 427.7 | 430.1 | 435.0 |
| 172.5° | 427.6 | 427.4 | 427.1 | 427.4 | 427.6 | 427.7  | 427.7 | 427.7 | 427.7 | 429.5 | 433.4 |
| 175°   | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3  | 429.5 | 428.2 | 427.7 | 428.9 | 431.3 |
| 177.5° | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3  | 429.6 | 428.7 | 428.2 | 429.2 | 431.1 |
| 180°   | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 | 430.3  | 430.3 | 430.3 | 430.3 | 430.3 | 430.3 |



TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°     | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1  | 993.1 | 993.1 | 993.1 | 993.1 |
| 2.5°   | 958.4  | 955.6  | 959.3  | 948.9  | 959.3  | 955.6  | 958.4  | 964.9 | 959.3 | 963.0 | 966.9 |
| 5°     | 841.0  | 836.2  | 821.2  | 808.9  | 821.2  | 836.2  | 841.0  | 860.7 | 870.0 | 886.9 | 909.5 |
| 7.5°   | 751.7  | 747.9  | 744.1  | 736.6  | 744.1  | 747.9  | 751.7  | 757.3 | 766.7 | 781.8 | 798.7 |
| 10°    | 732.0  | 732.9  | 738.5  | 737.6  | 738.5  | 732.9  | 732.0  | 730.0 | 727.2 | 730.0 | 740.4 |
| 12.5°  | 782.7  | 791.1  | 822.1  | 820.2  | 822.1  | 791.1  | 782.7  | 745.1 | 719.7 | 715.0 | 716.9 |
| 15°    | 841.0  | 843.8  | 850.3  | 851.2  | 850.3  | 843.8  | 841.0  | 825.9 | 749.8 | 716.9 | 706.6 |
| 17.5°  | 846.6  | 847.5  | 852.2  | 852.2  | 852.2  | 847.5  | 846.6  | 839.9 | 814.6 | 770.5 | 712.2 |
| 20°    | 841.9  | 843.8  | 853.1  | 855.0  | 853.1  | 843.8  | 841.9  | 833.4 | 819.3 | 803.3 | 759.2 |
| 22.5°  | 839.9  | 843.8  | 851.2  | 850.3  | 851.2  | 843.8  | 839.9  | 826.9 | 814.6 | 803.3 | 785.5 |
| 25°    | 830.6  | 830.6  | 831.5  | 832.5  | 831.5  | 830.6  | 830.6  | 820.2 | 795.9 | 793.0 | 782.7 |
| 27.5°  | 810.9  | 812.8  | 818.4  | 817.4  | 818.4  | 812.8  | 810.9  | 807.1 | 780.8 | 778.0 | 770.5 |
| 30°    | 793.0  | 791.1  | 786.4  | 782.7  | 786.4  | 791.1  | 793.0  | 787.4 | 761.0 | 753.6 | 755.4 |
| 32.5°  | 763.0  | 758.2  | 753.6  | 750.7  | 753.6  | 758.2  | 763.0  | 761.0 | 741.3 | 731.0 | 732.9 |
| 35°    | 727.2  | 728.1  | 727.2  | 724.4  | 727.2  | 728.1  | 727.2  | 729.1 | 716.9 | 707.5 | 706.6 |
| 37.5°  | 701.9  | 703.8  | 702.8  | 699.0  | 702.8  | 703.8  | 701.9  | 700.0 | 683.0 | 680.2 | 682.1 |
| 40°    | 675.6  | 676.5  | 675.6  | 672.8  | 675.6  | 676.5  | 675.6  | 671.8 | 648.3 | 649.2 | 655.9 |
| 42.5°  | 650.2  | 649.2  | 646.4  | 644.6  | 646.4  | 649.2  | 650.2  | 644.6 | 614.5 | 611.7 | 623.9 |
| 45°    | 621.1  | 622.0  | 616.3  | 613.5  | 616.3  | 622.0  | 621.1  | 617.3 | 586.3 | 578.8 | 587.2 |
| 47.5°  | 592.0  | 592.0  | 587.2  | 584.4  | 587.2  | 592.0  | 592.0  | 587.2 | 554.3 | 546.9 | 551.5 |
| 50°    | 561.0  | 560.0  | 553.4  | 552.5  | 553.4  | 560.0  | 561.0  | 558.2 | 523.3 | 516.8 | 516.8 |
| 52.5°  | 525.2  | 525.2  | 526.1  | 528.1  | 526.1  | 525.2  | 525.2  | 526.1 | 495.2 | 488.6 | 486.7 |
| 55°    | 494.2  | 495.2  | 501.7  | 503.6  | 501.7  | 495.2  | 494.2  | 494.2 | 466.1 | 459.4 | 455.7 |
| 57.5°  | 462.2  | 462.2  | 467.0  | 467.0  | 467.0  | 462.2  | 462.2  | 460.4 | 433.2 | 427.5 | 425.6 |
| 60°    | 425.6  | 427.5  | 431.2  | 430.3  | 431.2  | 427.5  | 425.6  | 423.8 | 400.2 | 396.5 | 389.9 |
| 62.5°  | 387.1  | 389.0  | 389.9  | 388.1  | 389.9  | 389.0  | 387.1  | 381.4 | 367.3 | 364.5 | 356.1 |
| 65°    | 346.7  | 348.6  | 349.5  | 347.6  | 349.5  | 348.6  | 346.7  | 343.9 | 333.5 | 328.9 | 321.3 |
| 67.5°  | 305.3  | 304.4  | 303.5  | 307.3  | 303.5  | 304.4  | 305.3  | 301.6 | 295.1 | 291.3 | 280.9 |
| 70°    | 263.1  | 263.1  | 262.2  | 264.0  | 262.2  | 263.1  | 263.1  | 260.3 | 256.5 | 253.7 | 244.3 |
| 72.5°  | 218.0  | 217.1  | 220.8  | 218.0  | 220.8  | 217.1  | 218.0  | 217.1 | 215.2 | 212.4 | 203.0 |
| 75°    | 173.8  | 175.7  | 173.8  | 176.6  | 173.8  | 175.7  | 173.8  | 174.8 | 173.8 | 171.9 | 165.4 |
| 77.5°  | 132.4  | 134.4  | 132.4  | 132.4  | 132.4  | 134.4  | 132.4  | 133.4 | 133.4 | 133.4 | 127.8 |
| 80°    | 94.0   | 93.0   | 93.0   | 92.1   | 93.0   | 93.0   | 94.0   | 94.0  | 94.9  | 93.0  | 91.2  |
| 82.5°  | 60.1   | 59.2   | 59.2   | 61.1   | 59.2   | 59.2   | 60.1   | 61.1  | 59.2  | 59.2  | 59.2  |
| 85°    | 32.9   | 33.8   | 31.9   | 31.9   | 31.9   | 33.8   | 32.9   | 31.0  | 32.9  | 32.9  | 31.9  |
| 87.5°  | 12.2   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 12.2   | 13.2  | 13.2  | 13.2  | 14.1  |
| 90°    | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 14.6  | 19.5  | 21.9  | 18.9  |
| 92.5°  | 54.8   | 52.7   | 43.9   | 35.2   | 43.9   | 52.7   | 54.8   | 77.7  | 108.3 | 123.6 | 108.5 |
| 95°    | 186.2  | 179.6  | 153.2  | 126.7  | 153.2  | 179.6  | 186.2  | 244.6 | 322.4 | 361.3 | 305.1 |
| 97.5°  | 429.9  | 417.3  | 367.1  | 316.8  | 367.1  | 417.3  | 429.9  | 466.8 | 516.0 | 540.6 | 447.0 |
| 100°   | 603.8  | 588.9  | 528.9  | 469.0  | 528.9  | 588.9  | 603.8  | 601.1 | 597.5 | 595.7 | 491.8 |
| 102.5° | 752.2  | 739.4  | 688.1  | 636.7  | 688.1  | 739.4  | 752.2  | 705.3 | 642.6 | 611.3 | 505.9 |
| 105°   | 925.5  | 918.6  | 891.0  | 863.4  | 891.0  | 918.6  | 925.5  | 820.1 | 679.8 | 609.5 | 507.5 |
| 107.5° | 1015.5 | 1017.2 | 1023.9 | 1030.6 | 1023.9 | 1017.2 | 1015.5 | 868.6 | 672.8 | 574.9 | 484.9 |
| 110°   | 1038.7 | 1045.9 | 1074.6 | 1103.3 | 1074.6 | 1045.9 | 1038.7 | 874.5 | 655.5 | 546.0 | 464.9 |



TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 260°   | 270°   | 280°   | 290°   | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 1023.9 | 1035.0 | 1079.1 | 1123.2 | 1079.1 | 1035.0 | 1023.9 | 855.9 | 631.9 | 519.8 | 447.5 |
| 115°   | 974.0  | 989.3  | 1050.5 | 1111.7 | 1050.5 | 989.3  | 974.0  | 812.1 | 596.3 | 488.3 | 427.4 |
| 117.5° | 905.0  | 922.0  | 989.9  | 1057.8 | 989.9  | 922.0  | 905.0  | 758.9 | 564.0 | 466.6 | 414.9 |
| 120°   | 858.4  | 875.0  | 940.9  | 1006.9 | 940.9  | 875.0  | 858.4  | 725.0 | 547.0 | 457.9 | 410.6 |
| 122.5° | 812.0  | 828.3  | 893.4  | 958.4  | 893.4  | 828.3  | 812.0  | 691.8 | 531.4 | 451.3 | 408.3 |
| 125°   | 750.5  | 765.4  | 825.4  | 885.3  | 825.4  | 765.4  | 750.5  | 648.4 | 512.2 | 444.1 | 406.6 |
| 127.5° | 701.1  | 713.7  | 764.3  | 814.9  | 764.3  | 713.7  | 701.1  | 613.4 | 496.5 | 438.0 | 405.5 |
| 130°   | 670.0  | 681.6  | 728.3  | 775.0  | 728.3  | 681.6  | 670.0  | 591.9 | 487.7 | 435.7 | 406.1 |
| 132.5° | 643.3  | 653.8  | 695.6  | 737.5  | 695.6  | 653.8  | 643.3  | 573.5 | 480.4 | 433.7 | 406.6 |
| 135°   | 605.8  | 614.9  | 650.9  | 687.0  | 650.9  | 614.9  | 605.8  | 547.3 | 469.3 | 430.3 | 406.2 |
| 137.5° | 578.1  | 585.4  | 615.0  | 644.6  | 615.0  | 585.4  | 578.1  | 528.6 | 462.6 | 429.6 | 408.6 |
| 140°   | 555.8  | 562.7  | 590.3  | 617.9  | 590.3  | 562.7  | 555.8  | 513.1 | 456.2 | 427.7 | 409.1 |
| 142.5° | 540.2  | 546.2  | 569.9  | 593.7  | 569.9  | 546.2  | 540.2  | 502.7 | 452.7 | 427.7 | 410.6 |
| 145°   | 516.9  | 521.4  | 539.4  | 557.3  | 539.4  | 521.4  | 516.9  | 486.1 | 445.2 | 424.8 | 410.6 |
| 147.5° | 497.3  | 501.0  | 515.8  | 530.7  | 515.8  | 501.0  | 497.3  | 473.1 | 440.8 | 424.8 | 413.4 |
| 150°   | 486.0  | 488.9  | 501.1  | 513.1  | 501.1  | 488.9  | 486.0  | 465.6 | 438.4 | 424.8 | 414.9 |
| 152.5° | 477.0  | 479.2  | 488.4  | 497.5  | 488.4  | 479.2  | 477.0  | 459.6 | 436.4 | 424.8 | 415.8 |
| 155°   | 466.3  | 467.8  | 473.9  | 479.9  | 473.9  | 467.8  | 466.3  | 452.5 | 434.0 | 424.8 | 418.0 |
| 157.5° | 457.1  | 458.1  | 462.4  | 466.6  | 462.4  | 458.1  | 457.1  | 446.4 | 432.0 | 424.8 | 420.1 |
| 160°   | 452.5  | 453.1  | 455.5  | 457.9  | 455.5  | 453.1  | 452.5  | 443.3 | 430.9 | 424.8 | 421.0 |
| 162.5° | 448.1  | 448.7  | 451.0  | 453.4  | 451.0  | 448.7  | 448.1  | 440.4 | 430.0 | 424.8 | 422.1 |
| 165°   | 441.5  | 442.2  | 444.6  | 447.0  | 444.6  | 442.2  | 441.5  | 435.9 | 428.5 | 424.8 | 423.6 |
| 167.5° | 438.6  | 438.9  | 439.9  | 440.9  | 439.9  | 438.9  | 438.6  | 435.0 | 430.1 | 427.7 | 426.7 |
| 170°   | 438.6  | 438.6  | 438.6  | 438.6  | 438.6  | 438.6  | 438.6  | 435.0 | 430.1 | 427.7 | 427.6 |
| 172.5° | 436.3  | 436.1  | 435.2  | 434.3  | 435.2  | 436.1  | 436.3  | 433.4 | 429.5 | 427.7 | 427.7 |
| 175°   | 433.1  | 433.1  | 433.1  | 433.1  | 433.1  | 433.1  | 433.1  | 431.3 | 428.9 | 427.7 | 428.2 |
| 177.5° | 432.5  | 432.3  | 431.3  | 430.3  | 431.3  | 432.3  | 432.5  | 431.1 | 429.2 | 428.2 | 428.7 |
| 180°   | 430.3  | 430.3  | 430.3  | 430.3  | 430.3  | 430.3  | 430.3  | 430.3 | 430.3 | 430.3 | 430.3 |



TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°   |
|--------|-------|--------|-------|-------|--------|
| 0°     | 993.1 | 993.1  | 993.1 | 993.1 | 993.1  |
| 2.5°   | 980.9 | 985.7  | 988.5 | 992.2 | 1001.6 |
| 5°     | 943.3 | 961.2  | 966.9 | 980.9 | 997.8  |
| 7.5°   | 860.7 | 915.1  | 930.2 | 964.0 | 990.3  |
| 10°    | 780.8 | 835.3  | 861.6 | 941.5 | 980.9  |
| 12.5°  | 740.4 | 772.3  | 790.2 | 902.0 | 967.8  |
| 15°    | 715.0 | 737.6  | 750.7 | 849.4 | 952.8  |
| 17.5°  | 695.3 | 711.2  | 720.7 | 797.7 | 932.0  |
| 20°    | 683.0 | 690.6  | 699.0 | 760.1 | 908.6  |
| 22.5°  | 674.6 | 670.0  | 676.5 | 733.8 | 876.7  |
| 25°    | 669.0 | 651.1  | 658.7 | 713.1 | 839.0  |
| 27.5°  | 673.7 | 634.2  | 637.1 | 694.3 | 799.6  |
| 30°    | 674.6 | 613.5  | 614.5 | 674.6 | 755.4  |
| 32.5°  | 668.1 | 592.0  | 592.9 | 650.2 | 705.6  |
| 35°    | 652.0 | 566.6  | 565.6 | 622.0 | 638.0  |
| 37.5°  | 630.4 | 539.3  | 539.3 | 591.0 | 563.8  |
| 40°    | 604.1 | 512.1  | 514.9 | 550.6 | 498.0  |
| 42.5°  | 572.2 | 483.0  | 486.7 | 497.1 | 449.2  |
| 45°    | 537.4 | 454.8  | 457.6 | 420.0 | 411.5  |
| 47.5°  | 498.9 | 425.6  | 426.6 | 348.6 | 399.3  |
| 50°    | 452.9 | 395.5  | 391.8 | 298.8 | 398.4  |
| 52.5°  | 412.5 | 362.7  | 351.4 | 270.6 | 361.7  |
| 55°    | 373.0 | 327.9  | 303.5 | 249.0 | 335.4  |
| 57.5°  | 338.3 | 282.8  | 259.4 | 223.6 | 329.8  |
| 60°    | 306.3 | 238.6  | 220.8 | 196.3 | 302.5  |
| 62.5°  | 280.0 | 205.8  | 202.0 | 177.6 | 274.3  |
| 65°    | 251.8 | 183.3  | 182.3 | 161.6 | 233.0  |
| 67.5°  | 224.5 | 168.2  | 167.3 | 146.5 | 177.6  |
| 70°    | 195.4 | 152.2  | 150.4 | 130.6 | 131.5  |
| 72.5°  | 165.4 | 134.4  | 132.4 | 117.4 | 109.0  |
| 75°    | 135.3 | 113.7  | 112.7 | 102.5 | 88.4   |
| 77.5°  | 106.2 | 90.2   | 92.1  | 82.7  | 64.8   |
| 80°    | 76.1  | 65.8   | 67.6  | 59.2  | 48.8   |
| 82.5°  | 50.7  | 43.2   | 45.1  | 37.5  | 32.9   |
| 85°    | 28.2  | 24.5   | 25.4  | 19.7  | 15.0   |
| 87.5°  | 13.2  | 11.3   | 11.3  | 7.5   | 4.7    |
| 90°    | 12.7  | 8.1    | 7.6   | 5.2   | 2.9    |
| 92.5°  | 78.4  | 55.8   | 50.8  | 31.2  | 11.6   |
| 95°    | 192.8 | 108.5  | 99.6  | 63.6  | 27.7   |
| 97.5°  | 259.7 | 119.3  | 111.3 | 79.7  | 47.9   |
| 100°   | 284.0 | 128.2  | 121.0 | 92.3  | 63.5   |
| 102.5° | 295.2 | 137.2  | 130.5 | 103.7 | 76.8   |
| 105°   | 303.5 | 150.5  | 144.8 | 122.1 | 99.4   |
| 107.5° | 305.0 | 170.1  | 164.8 | 143.6 | 122.4  |
| 110°   | 302.7 | 181.0  | 176.2 | 157.1 | 138.0  |



TEST NUMBER: P934291

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 302.8 | 194.4  | 189.8 | 171.6 | 153.4 |
| 115°   | 305.6 | 214.3  | 210.1 | 193.2 | 176.4 |
| 117.5° | 311.3 | 233.6  | 229.8 | 214.5 | 199.2 |
| 120°   | 315.9 | 244.9  | 241.3 | 226.9 | 212.5 |
| 122.5° | 322.5 | 258.2  | 254.5 | 240.0 | 225.6 |
| 125°   | 331.5 | 275.2  | 271.9 | 258.6 | 245.5 |
| 127.5° | 340.4 | 291.7  | 288.3 | 275.0 | 261.6 |
| 130°   | 347.0 | 302.6  | 299.1 | 284.7 | 270.3 |
| 132.5° | 352.3 | 311.6  | 308.0 | 293.6 | 279.3 |
| 135°   | 358.1 | 321.9  | 318.7 | 305.6 | 292.5 |
| 137.5° | 366.7 | 335.2  | 331.9 | 319.1 | 306.1 |
| 140°   | 372.0 | 344.2  | 341.2 | 329.3 | 317.4 |
| 142.5° | 376.4 | 350.8  | 348.0 | 337.0 | 326.0 |
| 145°   | 382.3 | 361.0  | 358.6 | 348.9 | 339.3 |
| 147.5° | 390.7 | 373.7  | 371.4 | 361.9 | 352.6 |
| 150°   | 395.2 | 380.3  | 378.2 | 369.8 | 361.3 |
| 152.5° | 398.0 | 384.6  | 383.0 | 376.6 | 370.1 |
| 155°   | 404.3 | 394.1  | 392.9 | 388.3 | 383.5 |
| 157.5° | 410.7 | 403.7  | 402.6 | 397.9 | 393.3 |
| 160°   | 413.6 | 408.0  | 407.0 | 403.5 | 399.9 |
| 162.5° | 416.7 | 412.6  | 412.0 | 409.3 | 406.6 |
| 165°   | 421.1 | 419.3  | 418.6 | 416.2 | 413.8 |
| 167.5° | 424.6 | 423.0  | 422.7 | 421.5 | 420.4 |
| 170°   | 427.5 | 427.4  | 427.1 | 425.9 | 424.8 |
| 172.5° | 427.7 | 427.7  | 427.6 | 427.4 | 427.1 |
| 175°   | 429.5 | 430.3  | 430.3 | 430.3 | 430.3 |
| 177.5° | 429.6 | 430.3  | 430.3 | 430.3 | 430.3 |
| 180°   | 430.3 | 430.3  | 430.3 | 430.3 | 430.3 |



TEST NUMBER: P934291  
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-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 | 10.92            | 11.77 | 11.90 | 12.76 | 14.06 | 13.75          | 14.59 | 14.72 | 15.58 | 16.88 |
|                 | 3H   | 11.40            | 12.16 | 12.38 | 13.15 | 14.47 | 15.09          | 15.85 | 16.08 | 16.84 | 18.16 |
|                 | 4H   | 11.59            | 12.31 | 12.59 | 13.31 | 14.64 | 15.53          | 16.25 | 16.53 | 17.25 | 18.58 |
|                 | 6H   | 11.71            | 12.37 | 12.72 | 13.37 | 14.71 | 15.82          | 16.47 | 16.82 | 17.48 | 18.82 |
|                 | 8H   | 11.71            | 12.34 | 12.72 | 13.36 | 14.70 | 15.89          | 16.52 | 16.90 | 17.54 | 18.88 |
|                 | 12H  | 11.68            | 12.28 | 12.70 | 13.29 | 14.65 | 15.93          | 16.52 | 16.95 | 17.54 | 18.90 |
| 4H              | 2H   | 11.95            | 12.67 | 12.96 | 13.67 | 15.00 | 14.16          | 14.87 | 15.16 | 15.87 | 17.20 |
|                 | 3H   | 12.98            | 13.58 | 13.99 | 14.60 | 15.95 | 15.66          | 16.25 | 16.67 | 17.28 | 18.63 |
|                 | 4H   | 13.25            | 13.80 | 14.28 | 14.82 | 16.19 | 16.18          | 16.73 | 17.21 | 17.75 | 19.12 |
|                 | 6H   | 13.38            | 13.85 | 14.41 | 14.89 | 16.25 | 16.55          | 17.02 | 17.58 | 18.06 | 19.42 |
|                 | 8H   | 13.38            | 13.82 | 14.42 | 14.86 | 16.24 | 16.65          | 17.09 | 17.69 | 18.13 | 19.51 |
|                 | 12H  | 13.35            | 13.75 | 14.40 | 14.80 | 16.18 | 16.71          | 17.10 | 17.76 | 18.16 | 19.54 |
| 8H              | 4H   | 13.71            | 14.14 | 14.74 | 15.18 | 16.56 | 16.31          | 16.75 | 17.34 | 17.78 | 19.16 |
|                 | 6H   | 13.97            | 14.33 | 15.02 | 15.41 | 16.78 | 16.74          | 17.10 | 17.80 | 18.18 | 19.56 |
|                 | 8H   | 14.01            | 14.33 | 15.07 | 15.39 | 16.79 | 16.89          | 17.21 | 17.96 | 18.28 | 19.67 |
|                 | 12H  | 13.99            | 14.27 | 15.06 | 15.33 | 16.77 | 16.99          | 17.27 | 18.06 | 18.33 | 19.76 |
| 12H             | 4H   | 13.71            | 14.11 | 14.76 | 15.16 | 16.54 | 16.27          | 16.67 | 17.32 | 17.72 | 19.10 |
|                 | 6H   | 14.03            | 14.35 | 15.09 | 15.41 | 16.80 | 16.74          | 17.06 | 17.80 | 18.12 | 19.52 |
|                 | 8H   | 14.09            | 14.37 | 15.16 | 15.43 | 16.87 | 16.90          | 17.18 | 17.97 | 18.24 | 19.67 |