

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: P934284

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P934284  
REPORT IS A COMBINATION OF REPORTS P933690 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-W2A-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

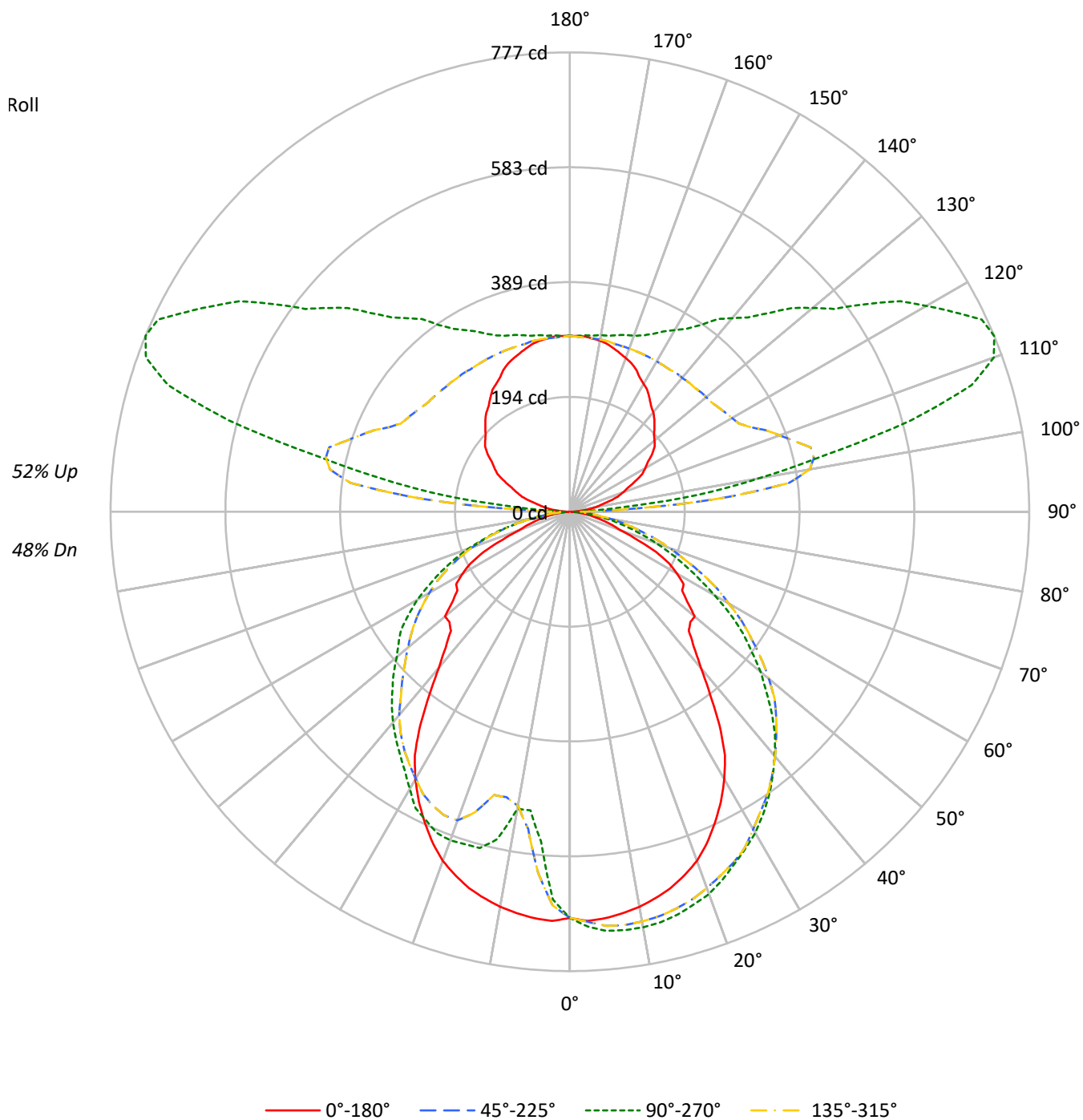
Lumens per Lamp: N/A  
Luminaire Lumens: 3711.3 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

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

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

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6374 | 6374 | 6374 | 6374 |
| 5°  | 6414 | 6434 | 6414 | 5059 |
| 10° | 6365 | 6338 | 6365 | 4532 |
| 15° | 6288 | 6201 | 6288 | 5178 |
| 20° | 6149 | 6038 | 6149 | 5189 |
| 25° | 5873 | 5801 | 5873 | 5079 |
| 30° | 5519 | 5604 | 5519 | 4838 |
| 35° | 4913 | 5354 | 4913 | 4572 |
| 40° | 4086 | 5062 | 4086 | 4371 |
| 45° | 3644 | 4718 | 3644 | 4140 |
| 50° | 3863 | 4308 | 3863 | 3909 |
| 55° | 3624 | 3868 | 3624 | 3777 |
| 60° | 3723 | 3285 | 3723 | 3459 |
| 65° | 3357 | 2715 | 3357 | 3034 |
| 70° | 2310 | 2164 | 2310 | 2545 |
| 75° | 2000 | 1599 | 2000 | 1916 |
| 80° | 1582 | 1058 | 1582 | 1152 |
| 85° | 861  | 560  | 861  | 476  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5596 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.0   | 1.7       |
| 10°-20°   | 176.0  | 4.7       |
| 20°-30°   | 272.1  | 7.3       |
| 30°-40°   | 324.9  | 8.8       |
| 40°-50°   | 326.8  | 8.8       |
| 50°-60°   | 284.3  | 7.7       |
| 60°-70°   | 201.6  | 5.4       |
| 70°-80°   | 106.7  | 2.9       |
| 80°-90°   | 27.7   | 0.7       |
| 90°-100°  | 145.0  | 3.9       |
| 100°-110° | 381.4  | 10.3      |
| 110°-120° | 395.4  | 10.7      |
| 120°-130° | 317.2  | 8.5       |
| 130°-140° | 248.9  | 6.7       |
| 140°-150° | 191.0  | 5.1       |
| 150°-160° | 137.6  | 3.7       |
| 160°-170° | 84.2   | 2.3       |
| 170°-180° | 28.4   | 0.8       |
| 0°-30°    | 510.2  | 13.7      |
| 0°-40°    | 835.1  | 22.5      |
| 0°-60°    | 1446.2 | 39.0      |
| 0°-90°    | 1782.2 | 48.0      |
| 90°-120°  | 921.8  | 24.8      |
| 90°-150°  | 1678.9 | 45.2      |
| 90°-180°  | 1929.0 | 52.0      |
| 0°-180°   | 3711.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 687 | 687 | 687  | 687  | 687  |      |
| 5°   | 690 | 712 | 690  | 560  | 690  | 65   |
| 15°  | 659 | 705 | 659  | 589  | 659  | 185  |
| 25°  | 580 | 658 | 580  | 576  | 580  | 266  |
| 35°  | 441 | 587 | 441  | 501  | 441  | 273  |
| 45°  | 285 | 484 | 285  | 424  | 285  | 228  |
| 55°  | 232 | 357 | 232  | 348  | 232  | 213  |
| 65°  | 161 | 215 | 161  | 240  | 161  | 154  |
| 75°  | 61  | 102 | 61   | 122  | 61   | 64   |
| 85°  | 10  | 26  | 10   | 22   | 10   | 14   |
| 90°  | 2   | 8   | 2    | 8    | 2    | 2    |
| 95°  | 19  | 88  | 19   | 88   | 19   | 21   |
| 105° | 69  | 597 | 69   | 597  | 69   | 73   |
| 115° | 122 | 769 | 122  | 769  | 122  | 120  |
| 125° | 170 | 612 | 170  | 612  | 170  | 151  |
| 135° | 202 | 475 | 202  | 475  | 202  | 157  |
| 145° | 235 | 386 | 235  | 386  | 235  | 147  |
| 155° | 265 | 332 | 265  | 332  | 265  | 122  |
| 165° | 286 | 309 | 286  | 309  | 286  | 81   |
| 175° | 298 | 300 | 298  | 300  | 298  | 28   |
| 180° | 298 | 298 | 298  | 298  | 298  |      |

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CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 |
| 2.5°   | 692.7 | 692.7 | 696.6 | 698.0 | 698.0 | 696.0 | 694.1 | 696.0 | 701.8 | 703.8 | 703.1 |
| 5°     | 690.1 | 695.4 | 702.5 | 703.8 | 705.1 | 704.5 | 703.1 | 704.5 | 711.0 | 712.2 | 712.9 |
| 7.5°   | 685.0 | 694.7 | 703.8 | 705.7 | 707.7 | 705.7 | 705.1 | 706.4 | 712.9 | 714.2 | 714.2 |
| 10°    | 678.5 | 692.1 | 702.5 | 703.8 | 705.7 | 703.8 | 703.8 | 706.4 | 712.9 | 714.2 | 714.8 |
| 12.5°  | 669.4 | 688.2 | 698.0 | 699.2 | 701.8 | 701.2 | 700.6 | 703.1 | 709.7 | 711.0 | 711.0 |
| 15°    | 658.9 | 681.0 | 690.1 | 691.5 | 696.0 | 694.7 | 694.7 | 697.3 | 704.5 | 706.4 | 705.7 |
| 17.5°  | 644.7 | 672.0 | 682.4 | 684.3 | 687.6 | 686.9 | 687.6 | 690.1 | 696.6 | 698.0 | 698.6 |
| 20°    | 628.4 | 659.6 | 672.0 | 673.9 | 677.1 | 677.1 | 677.1 | 680.4 | 686.9 | 689.5 | 689.5 |
| 22.5°  | 606.3 | 646.6 | 659.6 | 661.0 | 664.8 | 664.8 | 666.1 | 670.6 | 676.5 | 677.1 | 677.1 |
| 25°    | 580.3 | 632.3 | 643.3 | 647.3 | 651.2 | 653.1 | 655.0 | 657.7 | 659.6 | 658.9 | 659.6 |
| 27.5°  | 553.0 | 614.2 | 628.4 | 631.0 | 636.2 | 638.2 | 640.8 | 641.4 | 642.1 | 644.0 | 642.7 |
| 30°    | 522.5 | 588.8 | 610.2 | 612.8 | 621.2 | 622.6 | 620.0 | 621.2 | 624.5 | 625.8 | 627.1 |
| 32.5°  | 488.1 | 551.1 | 591.4 | 597.2 | 605.0 | 601.2 | 600.5 | 602.4 | 607.7 | 607.7 | 608.9 |
| 35°    | 441.3 | 521.8 | 573.8 | 579.1 | 584.9 | 580.3 | 583.0 | 583.5 | 586.8 | 588.8 | 588.1 |
| 37.5°  | 389.9 | 496.5 | 555.6 | 559.5 | 564.1 | 558.2 | 562.1 | 564.1 | 566.7 | 565.4 | 565.4 |
| 40°    | 344.4 | 456.9 | 534.2 | 536.8 | 540.7 | 536.1 | 540.0 | 541.4 | 542.6 | 541.4 | 540.7 |
| 42.5°  | 310.7 | 413.3 | 511.4 | 514.7 | 512.1 | 515.3 | 516.7 | 519.3 | 517.3 | 514.7 | 514.7 |
| 45°    | 284.6 | 401.7 | 486.7 | 490.6 | 486.7 | 492.0 | 493.9 | 493.9 | 488.1 | 486.7 | 486.1 |
| 47.5°  | 276.2 | 378.2 | 462.0 | 462.0 | 460.1 | 466.6 | 469.9 | 465.3 | 459.5 | 457.5 | 457.5 |
| 50°    | 275.6 | 352.2 | 428.3 | 425.7 | 434.8 | 442.5 | 439.3 | 434.8 | 430.2 | 423.1 | 423.1 |
| 52.5°  | 250.2 | 320.4 | 384.7 | 394.5 | 408.7 | 413.3 | 408.1 | 403.6 | 395.7 | 392.5 | 389.9 |
| 55°    | 232.0 | 287.2 | 345.1 | 364.5 | 379.6 | 385.4 | 375.6 | 371.0 | 359.4 | 357.5 | 356.1 |
| 57.5°  | 228.1 | 239.1 | 308.7 | 333.3 | 351.6 | 351.0 | 345.1 | 336.6 | 326.8 | 324.9 | 324.3 |
| 60°    | 209.3 | 172.9 | 269.7 | 298.9 | 317.7 | 315.8 | 310.7 | 302.8 | 293.7 | 292.4 | 291.2 |
| 62.5°  | 189.7 | 125.4 | 225.5 | 258.6 | 285.3 | 284.6 | 280.1 | 268.4 | 261.9 | 258.6 | 256.0 |
| 65°    | 161.1 | 105.2 | 160.6 | 215.1 | 253.5 | 254.8 | 245.0 | 236.5 | 229.4 | 225.5 | 224.8 |
| 67.5°  | 122.9 | 85.8  | 108.5 | 179.4 | 222.9 | 221.6 | 209.3 | 205.3 | 196.2 | 194.3 | 190.4 |
| 70°    | 91.0  | 57.2  | 75.4  | 145.5 | 193.0 | 189.7 | 180.0 | 175.5 | 167.1 | 162.5 | 159.9 |
| 72.5°  | 75.4  | 46.1  | 55.2  | 113.1 | 162.5 | 158.5 | 150.1 | 145.0 | 137.8 | 133.9 | 131.3 |
| 75°    | 61.0  | 48.7  | 42.2  | 83.8  | 131.9 | 129.4 | 121.5 | 116.3 | 110.5 | 105.2 | 105.9 |
| 77.5°  | 44.9  | 45.4  | 33.8  | 61.7  | 104.7 | 100.8 | 96.2  | 89.7  | 87.1  | 81.9  | 81.9  |
| 80°    | 33.8  | 35.8  | 25.4  | 42.2  | 75.4  | 75.4  | 71.5  | 67.0  | 62.4  | 59.8  | 59.8  |
| 82.5°  | 22.8  | 22.8  | 18.8  | 26.6  | 51.4  | 49.4  | 46.8  | 45.4  | 42.9  | 41.6  | 41.6  |
| 85°    | 10.4  | 13.0  | 11.7  | 16.3  | 27.9  | 29.3  | 29.3  | 27.9  | 27.3  | 26.0  | 26.6  |
| 87.5°  | 3.3   | 5.8   | 7.2   | 9.1   | 14.3  | 14.9  | 15.6  | 15.6  | 15.6  | 16.3  | 16.3  |
| 90°    | 2.0   | 3.6   | 5.2   | 5.6   | 8.8   | 13.1  | 15.2  | 13.5  | 10.1  | 7.6   | 7.6   |
| 92.5°  | 7.9   | 21.5  | 35.2  | 38.6  | 54.2  | 75.0  | 85.5  | 74.9  | 53.8  | 38.0  | 36.4  |
| 95°    | 19.2  | 44.0  | 68.9  | 75.1  | 133.3 | 211.0 | 249.8 | 222.9 | 169.1 | 128.8 | 124.2 |
| 97.5°  | 33.1  | 55.0  | 76.9  | 82.5  | 179.6 | 309.1 | 373.8 | 356.9 | 322.9 | 297.4 | 288.7 |
| 100°   | 43.9  | 63.8  | 83.7  | 88.7  | 196.4 | 340.1 | 412.0 | 413.3 | 415.8 | 417.6 | 407.3 |
| 102.5° | 53.1  | 71.7  | 90.2  | 94.9  | 204.2 | 349.9 | 422.8 | 444.5 | 487.8 | 520.3 | 511.3 |
| 105°   | 68.7  | 84.4  | 100.1 | 104.1 | 209.9 | 351.1 | 421.6 | 470.2 | 567.3 | 640.1 | 635.4 |
| 107.5° | 84.7  | 99.3  | 114.0 | 117.6 | 211.0 | 335.5 | 397.7 | 465.4 | 600.9 | 702.4 | 703.6 |
| 110°   | 95.4  | 108.6 | 121.9 | 125.2 | 209.4 | 321.6 | 377.7 | 453.4 | 604.8 | 718.4 | 723.4 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 106.0 | 118.6 | 131.2 | 134.4 | 209.4 | 309.5 | 359.5 | 437.0 | 592.0 | 708.2 | 715.9 |
| 115°   | 122.0 | 133.6 | 145.3 | 148.2 | 211.3 | 295.5 | 337.7 | 412.3 | 561.6 | 673.6 | 684.2 |
| 117.5° | 137.8 | 148.4 | 158.9 | 161.5 | 215.3 | 286.9 | 322.8 | 390.1 | 524.8 | 625.9 | 637.6 |
| 120°   | 147.0 | 157.0 | 166.9 | 169.4 | 218.5 | 284.0 | 316.8 | 378.3 | 501.5 | 593.8 | 605.2 |
| 122.5° | 156.0 | 166.1 | 176.1 | 178.6 | 223.1 | 282.5 | 312.1 | 367.5 | 478.5 | 561.6 | 572.9 |
| 125°   | 169.8 | 178.9 | 188.0 | 190.3 | 229.3 | 281.2 | 307.2 | 354.3 | 448.5 | 519.1 | 529.5 |
| 127.5° | 180.9 | 190.2 | 199.4 | 201.7 | 235.5 | 280.5 | 303.0 | 343.4 | 424.2 | 484.9 | 493.6 |
| 130°   | 186.9 | 196.9 | 206.8 | 209.3 | 240.0 | 280.9 | 301.4 | 337.4 | 409.4 | 463.4 | 471.4 |
| 132.5° | 193.1 | 203.1 | 213.0 | 215.5 | 243.7 | 281.2 | 300.0 | 332.2 | 396.6 | 445.0 | 452.2 |
| 135°   | 202.3 | 211.3 | 220.4 | 222.7 | 247.7 | 280.9 | 297.6 | 324.5 | 378.5 | 419.0 | 425.2 |
| 137.5° | 211.7 | 220.6 | 229.7 | 231.9 | 253.7 | 282.7 | 297.2 | 320.0 | 365.6 | 399.8 | 404.9 |
| 140°   | 219.5 | 227.7 | 236.0 | 238.1 | 257.3 | 282.9 | 295.7 | 315.5 | 354.9 | 384.5 | 389.2 |
| 142.5° | 225.5 | 233.1 | 240.7 | 242.6 | 260.4 | 283.9 | 295.7 | 313.1 | 347.7 | 373.6 | 377.7 |
| 145°   | 234.7 | 241.3 | 248.0 | 249.6 | 264.3 | 284.0 | 293.8 | 307.9 | 336.2 | 357.5 | 360.6 |
| 147.5° | 243.9 | 250.4 | 256.8 | 258.4 | 270.3 | 286.0 | 293.8 | 304.9 | 327.2 | 343.9 | 346.5 |
| 150°   | 249.8 | 255.6 | 261.5 | 263.0 | 273.3 | 286.9 | 293.8 | 303.2 | 322.0 | 336.1 | 338.3 |
| 152.5° | 256.0 | 260.5 | 264.9 | 266.0 | 275.3 | 287.6 | 293.8 | 301.8 | 317.9 | 329.9 | 331.5 |
| 155°   | 265.2 | 268.5 | 271.8 | 272.6 | 279.7 | 289.1 | 293.8 | 300.2 | 313.0 | 322.6 | 323.6 |
| 157.5° | 272.0 | 275.2 | 278.4 | 279.2 | 284.0 | 290.5 | 293.8 | 298.7 | 308.7 | 316.2 | 317.0 |
| 160°   | 276.6 | 279.1 | 281.6 | 282.2 | 286.0 | 291.2 | 293.8 | 298.1 | 306.6 | 313.0 | 313.4 |
| 162.5° | 281.2 | 283.0 | 284.9 | 285.4 | 288.2 | 292.0 | 293.8 | 297.4 | 304.6 | 310.0 | 310.4 |
| 165°   | 286.2 | 287.9 | 289.6 | 290.0 | 291.3 | 292.9 | 293.8 | 296.3 | 301.5 | 305.3 | 305.7 |
| 167.5° | 290.8 | 291.6 | 292.3 | 292.5 | 293.6 | 295.1 | 295.7 | 297.5 | 300.9 | 303.4 | 303.6 |
| 170°   | 293.8 | 294.6 | 295.4 | 295.5 | 295.6 | 295.7 | 295.7 | 297.5 | 300.9 | 303.4 | 303.4 |
| 172.5° | 295.4 | 295.5 | 295.7 | 295.7 | 295.7 | 295.7 | 295.7 | 297.1 | 299.7 | 301.7 | 301.6 |
| 175°   | 297.6 | 297.6 | 297.6 | 297.6 | 297.0 | 296.1 | 295.7 | 296.6 | 298.4 | 299.6 | 299.6 |
| 177.5° | 297.6 | 297.6 | 297.6 | 297.6 | 297.1 | 296.5 | 296.2 | 296.9 | 298.3 | 299.2 | 299.0 |
| 180°   | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 |

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CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°     | 686.9 | 686.9 | 686.9 | 686.9 | 686.9  | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9  |
| 2.5°   | 704.5 | 702.5 | 704.5 | 703.1 | 703.8  | 701.8 | 696.0 | 694.1 | 696.0 | 698.0 | 698.0  |
| 5°     | 712.9 | 711.6 | 712.9 | 712.9 | 712.2  | 711.0 | 704.5 | 703.1 | 704.5 | 705.1 | 703.8  |
| 7.5°   | 715.5 | 713.6 | 715.5 | 714.2 | 714.2  | 712.9 | 706.4 | 705.1 | 705.7 | 707.7 | 705.7  |
| 10°    | 715.5 | 713.6 | 715.5 | 714.8 | 714.2  | 712.9 | 706.4 | 703.8 | 703.8 | 705.7 | 703.8  |
| 12.5°  | 712.2 | 711.0 | 712.2 | 711.0 | 711.0  | 709.7 | 703.1 | 700.6 | 701.2 | 701.8 | 699.2  |
| 15°    | 707.1 | 705.1 | 707.1 | 705.7 | 706.4  | 704.5 | 697.3 | 694.7 | 694.7 | 696.0 | 691.5  |
| 17.5°  | 699.2 | 696.6 | 699.2 | 698.6 | 698.0  | 696.6 | 690.1 | 687.6 | 686.9 | 687.6 | 684.3  |
| 20°    | 690.1 | 688.2 | 690.1 | 689.5 | 689.5  | 686.9 | 680.4 | 677.1 | 677.1 | 677.1 | 673.9  |
| 22.5°  | 675.9 | 673.9 | 675.9 | 677.1 | 677.1  | 676.5 | 670.6 | 666.1 | 664.8 | 664.8 | 661.0  |
| 25°    | 659.6 | 657.7 | 659.6 | 659.6 | 658.9  | 659.6 | 657.7 | 655.0 | 653.1 | 651.2 | 647.3  |
| 27.5°  | 644.0 | 642.7 | 644.0 | 642.7 | 644.0  | 642.1 | 641.4 | 640.8 | 638.2 | 636.2 | 631.0  |
| 30°    | 628.4 | 627.1 | 628.4 | 627.1 | 625.8  | 624.5 | 621.2 | 620.0 | 622.6 | 621.2 | 612.8  |
| 32.5°  | 608.9 | 607.7 | 608.9 | 608.9 | 607.7  | 607.7 | 602.4 | 600.5 | 601.2 | 605.0 | 597.2  |
| 35°    | 588.8 | 586.8 | 588.8 | 588.1 | 588.8  | 586.8 | 583.5 | 583.0 | 580.3 | 584.9 | 579.1  |
| 37.5°  | 565.4 | 563.5 | 565.4 | 565.4 | 565.4  | 566.7 | 564.1 | 562.1 | 558.2 | 564.1 | 559.5  |
| 40°    | 541.4 | 538.8 | 541.4 | 540.7 | 541.4  | 542.6 | 541.4 | 540.0 | 536.1 | 540.7 | 536.8  |
| 42.5°  | 514.1 | 513.4 | 514.1 | 514.7 | 514.7  | 517.3 | 519.3 | 516.7 | 515.3 | 512.1 | 514.7  |
| 45°    | 484.8 | 483.5 | 484.8 | 486.1 | 486.7  | 488.1 | 493.9 | 493.9 | 492.0 | 486.7 | 490.6  |
| 47.5°  | 453.6 | 450.4 | 453.6 | 457.5 | 457.5  | 459.5 | 465.3 | 469.9 | 466.6 | 460.1 | 462.0  |
| 50°    | 420.4 | 421.1 | 420.4 | 423.1 | 423.1  | 430.2 | 434.8 | 439.3 | 442.5 | 434.8 | 425.7  |
| 52.5°  | 388.0 | 387.3 | 388.0 | 389.9 | 392.5  | 395.7 | 403.6 | 408.1 | 413.3 | 408.7 | 394.5  |
| 55°    | 355.4 | 356.8 | 355.4 | 356.1 | 357.5  | 359.4 | 371.0 | 375.6 | 385.4 | 379.6 | 364.5  |
| 57.5°  | 323.0 | 321.0 | 323.0 | 324.3 | 324.9  | 326.8 | 336.6 | 345.1 | 351.0 | 351.6 | 333.3  |
| 60°    | 285.3 | 282.7 | 285.3 | 291.2 | 292.4  | 293.7 | 302.8 | 310.7 | 315.8 | 317.7 | 298.9  |
| 62.5°  | 252.1 | 247.6 | 252.1 | 256.0 | 258.6  | 261.9 | 268.4 | 280.1 | 284.6 | 285.3 | 258.6  |
| 65°    | 217.1 | 215.1 | 217.1 | 224.8 | 225.5  | 229.4 | 236.5 | 245.0 | 254.8 | 253.5 | 215.1  |
| 67.5°  | 185.2 | 185.2 | 185.2 | 190.4 | 194.3  | 196.2 | 205.3 | 209.3 | 221.6 | 222.9 | 179.4  |
| 70°    | 156.0 | 155.3 | 156.0 | 159.9 | 162.5  | 167.1 | 175.5 | 180.0 | 189.7 | 193.0 | 145.5  |
| 72.5°  | 128.0 | 127.3 | 128.0 | 131.3 | 133.9  | 137.8 | 145.0 | 150.1 | 158.5 | 162.5 | 113.1  |
| 75°    | 103.3 | 102.0 | 103.3 | 105.9 | 105.2  | 110.5 | 116.3 | 121.5 | 129.4 | 131.9 | 83.8   |
| 77.5°  | 79.3  | 79.3  | 79.3  | 81.9  | 81.9   | 87.1  | 89.7  | 96.2  | 100.8 | 104.7 | 61.7   |
| 80°    | 59.1  | 58.5  | 59.1  | 59.8  | 59.8   | 62.4  | 67.0  | 71.5  | 75.4  | 75.4  | 42.2   |
| 82.5°  | 41.6  | 40.3  | 41.6  | 41.6  | 41.6   | 42.9  | 45.4  | 46.8  | 49.4  | 51.4  | 26.6   |
| 85°    | 26.0  | 26.0  | 26.0  | 26.6  | 26.0   | 27.3  | 27.9  | 29.3  | 29.3  | 27.9  | 16.3   |
| 87.5°  | 16.9  | 16.3  | 16.9  | 16.3  | 16.3   | 15.6  | 15.6  | 15.6  | 14.9  | 14.3  | 9.1    |
| 90°    | 7.6   | 7.6   | 7.6   | 7.6   | 7.6    | 10.1  | 13.5  | 15.2  | 13.1  | 8.8   | 5.6    |
| 92.5°  | 30.4  | 24.3  | 30.4  | 36.4  | 38.0   | 53.8  | 74.9  | 85.5  | 75.0  | 54.2  | 38.6   |
| 95°    | 105.9 | 87.7  | 105.9 | 124.2 | 128.8  | 169.1 | 222.9 | 249.8 | 211.0 | 133.3 | 75.1   |
| 97.5°  | 253.9 | 219.1 | 253.9 | 288.7 | 297.4  | 322.9 | 356.9 | 373.8 | 309.1 | 179.6 | 82.5   |
| 100°   | 365.8 | 324.3 | 365.8 | 407.3 | 417.6  | 415.8 | 413.3 | 412.0 | 340.1 | 196.4 | 88.7   |
| 102.5° | 475.9 | 440.4 | 475.9 | 511.3 | 520.3  | 487.8 | 444.5 | 422.8 | 349.9 | 204.2 | 94.9   |
| 105°   | 616.3 | 597.2 | 616.3 | 635.4 | 640.1  | 567.3 | 470.2 | 421.6 | 351.1 | 209.9 | 104.1  |
| 107.5° | 708.1 | 712.8 | 708.1 | 703.6 | 702.4  | 600.9 | 465.4 | 397.7 | 335.5 | 211.0 | 117.6  |
| 110°   | 743.2 | 763.1 | 743.2 | 723.4 | 718.4  | 604.8 | 453.4 | 377.7 | 321.6 | 209.4 | 125.2  |



TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 112.5° | 746.4 | 776.9 | 746.4 | 715.9 | 708.2  | 592.0 | 437.0 | 359.5 | 309.5 | 209.4 | 134.4  |
| 115°   | 726.6 | 768.9 | 726.6 | 684.2 | 673.6  | 561.6 | 412.3 | 337.7 | 295.5 | 211.3 | 148.2  |
| 117.5° | 684.6 | 731.6 | 684.6 | 637.6 | 625.9  | 524.8 | 390.1 | 322.8 | 286.9 | 215.3 | 161.5  |
| 120°   | 650.8 | 696.4 | 650.8 | 605.2 | 593.8  | 501.5 | 378.3 | 316.8 | 284.0 | 218.5 | 169.4  |
| 122.5° | 617.9 | 662.9 | 617.9 | 572.9 | 561.6  | 478.5 | 367.5 | 312.1 | 282.5 | 223.1 | 178.6  |
| 125°   | 570.8 | 612.3 | 570.8 | 529.5 | 519.1  | 448.5 | 354.3 | 307.2 | 281.2 | 229.3 | 190.3  |
| 127.5° | 528.6 | 563.6 | 528.6 | 493.6 | 484.9  | 424.2 | 343.4 | 303.0 | 280.5 | 235.5 | 201.7  |
| 130°   | 503.8 | 536.1 | 503.8 | 471.4 | 463.4  | 409.4 | 337.4 | 301.4 | 280.9 | 240.0 | 209.3  |
| 132.5° | 481.1 | 510.1 | 481.1 | 452.2 | 445.0  | 396.6 | 332.2 | 300.0 | 281.2 | 243.7 | 215.5  |
| 135°   | 450.2 | 475.1 | 450.2 | 425.2 | 419.0  | 378.5 | 324.5 | 297.6 | 280.9 | 247.7 | 222.7  |
| 137.5° | 425.3 | 445.7 | 425.3 | 404.9 | 399.8  | 365.6 | 320.0 | 297.2 | 282.7 | 253.7 | 231.9  |
| 140°   | 408.3 | 427.4 | 408.3 | 389.2 | 384.5  | 354.9 | 315.5 | 295.7 | 282.9 | 257.3 | 238.1  |
| 142.5° | 394.2 | 410.7 | 394.2 | 377.7 | 373.6  | 347.7 | 313.1 | 295.7 | 283.9 | 260.4 | 242.6  |
| 145°   | 373.1 | 385.5 | 373.1 | 360.6 | 357.5  | 336.2 | 307.9 | 293.8 | 284.0 | 264.3 | 249.6  |
| 147.5° | 356.8 | 367.1 | 356.8 | 346.5 | 343.9  | 327.2 | 304.9 | 293.8 | 286.0 | 270.3 | 258.4  |
| 150°   | 346.6 | 354.9 | 346.6 | 338.3 | 336.1  | 322.0 | 303.2 | 293.8 | 286.9 | 273.3 | 263.0  |
| 152.5° | 337.8 | 344.1 | 337.8 | 331.5 | 329.9  | 317.9 | 301.8 | 293.8 | 287.6 | 275.3 | 266.0  |
| 155°   | 327.8 | 332.0 | 327.8 | 323.6 | 322.6  | 313.0 | 300.2 | 293.8 | 289.1 | 279.7 | 272.6  |
| 157.5° | 319.9 | 322.8 | 319.9 | 317.0 | 316.2  | 308.7 | 298.7 | 293.8 | 290.5 | 284.0 | 279.2  |
| 160°   | 315.1 | 316.8 | 315.1 | 313.4 | 313.0  | 306.6 | 298.1 | 293.8 | 291.2 | 286.0 | 282.2  |
| 162.5° | 312.0 | 313.6 | 312.0 | 310.4 | 310.0  | 304.6 | 297.4 | 293.8 | 292.0 | 288.2 | 285.4  |
| 165°   | 307.5 | 309.2 | 307.5 | 305.7 | 305.3  | 301.5 | 296.3 | 293.8 | 292.9 | 291.3 | 290.0  |
| 167.5° | 304.3 | 304.9 | 304.3 | 303.6 | 303.4  | 300.9 | 297.5 | 295.7 | 295.1 | 293.6 | 292.5  |
| 170°   | 303.4 | 303.4 | 303.4 | 303.4 | 303.4  | 300.9 | 297.5 | 295.7 | 295.7 | 295.6 | 295.5  |
| 172.5° | 301.0 | 300.4 | 301.0 | 301.6 | 301.7  | 299.7 | 297.1 | 295.7 | 295.7 | 295.7 | 295.7  |
| 175°   | 299.6 | 299.6 | 299.6 | 299.6 | 299.6  | 298.4 | 296.6 | 295.7 | 296.1 | 297.0 | 297.6  |
| 177.5° | 298.4 | 297.6 | 298.4 | 299.0 | 299.2  | 298.3 | 296.9 | 296.2 | 296.5 | 297.1 | 297.6  |
| 180°   | 297.6 | 297.6 | 297.6 | 297.6 | 297.6  | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6  |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°     | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9  | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 |
| 2.5°   | 696.6 | 692.7 | 692.7 | 686.2 | 683.6 | 681.7  | 678.5 | 668.7 | 666.1 | 663.5 | 667.4 |
| 5°     | 702.5 | 695.4 | 690.1 | 678.5 | 668.7 | 664.8  | 652.4 | 629.1 | 613.5 | 601.7 | 595.3 |
| 7.5°   | 703.8 | 694.7 | 685.0 | 666.8 | 643.3 | 633.0  | 595.3 | 552.4 | 540.7 | 530.3 | 523.7 |
| 10°    | 702.5 | 692.1 | 678.5 | 651.2 | 595.9 | 577.7  | 540.0 | 512.1 | 504.9 | 503.0 | 504.9 |
| 12.5°  | 698.0 | 688.2 | 669.4 | 623.8 | 546.5 | 534.2  | 512.1 | 495.8 | 494.6 | 497.8 | 515.3 |
| 15°    | 690.1 | 681.0 | 658.9 | 587.5 | 519.3 | 510.2  | 494.6 | 488.7 | 495.8 | 518.6 | 571.2 |
| 17.5°  | 682.4 | 672.0 | 644.7 | 551.7 | 498.5 | 492.0  | 480.9 | 492.6 | 532.9 | 563.5 | 581.0 |
| 20°    | 672.0 | 659.6 | 628.4 | 525.8 | 483.5 | 477.6  | 472.5 | 525.1 | 555.6 | 566.7 | 576.5 |
| 22.5°  | 659.6 | 646.6 | 606.3 | 507.6 | 467.9 | 463.4  | 466.6 | 543.3 | 555.6 | 563.5 | 571.9 |
| 25°    | 643.3 | 632.3 | 580.3 | 493.2 | 455.5 | 450.4  | 462.7 | 541.4 | 548.5 | 550.4 | 567.3 |
| 27.5°  | 628.4 | 614.2 | 553.0 | 480.2 | 440.6 | 438.7  | 466.0 | 532.9 | 538.1 | 540.0 | 558.2 |
| 30°    | 610.2 | 588.8 | 522.5 | 466.6 | 425.0 | 424.3  | 466.6 | 522.5 | 521.2 | 526.4 | 544.6 |
| 32.5°  | 591.4 | 551.1 | 488.1 | 449.7 | 410.1 | 409.4  | 462.0 | 506.9 | 505.6 | 512.7 | 526.4 |
| 35°    | 573.8 | 521.8 | 441.3 | 430.2 | 391.2 | 391.9  | 451.0 | 488.7 | 489.3 | 495.8 | 504.3 |
| 37.5°  | 555.6 | 496.5 | 389.9 | 408.7 | 373.1 | 373.1  | 436.0 | 471.8 | 470.5 | 472.5 | 484.1 |
| 40°    | 534.2 | 456.9 | 344.4 | 380.8 | 356.1 | 354.2  | 417.8 | 453.6 | 449.0 | 448.5 | 464.6 |
| 42.5°  | 511.4 | 413.3 | 310.7 | 343.8 | 336.6 | 334.0  | 395.7 | 431.5 | 423.1 | 425.0 | 445.8 |
| 45°    | 486.7 | 401.7 | 284.6 | 290.5 | 316.5 | 314.5  | 371.7 | 406.2 | 400.3 | 405.5 | 426.9 |
| 47.5°  | 462.0 | 378.2 | 276.2 | 241.1 | 295.1 | 294.4  | 345.1 | 381.5 | 378.2 | 383.4 | 406.2 |
| 50°    | 428.3 | 352.2 | 275.6 | 206.7 | 271.0 | 273.5  | 313.3 | 357.5 | 357.5 | 362.0 | 386.0 |
| 52.5°  | 384.7 | 320.4 | 250.2 | 187.1 | 243.0 | 250.9  | 285.3 | 336.6 | 337.9 | 342.4 | 364.0 |
| 55°    | 345.1 | 287.2 | 232.0 | 172.2 | 209.9 | 226.8  | 257.9 | 315.2 | 317.7 | 322.3 | 341.9 |
| 57.5°  | 308.7 | 239.1 | 228.1 | 154.7 | 179.4 | 195.6  | 233.9 | 294.4 | 295.6 | 299.6 | 318.4 |
| 60°    | 269.7 | 172.9 | 209.3 | 135.9 | 152.7 | 165.0  | 211.8 | 269.7 | 274.2 | 276.8 | 293.1 |
| 62.5°  | 225.5 | 125.4 | 189.7 | 122.9 | 139.7 | 142.3  | 193.7 | 246.3 | 252.1 | 254.1 | 263.9 |
| 65°    | 160.6 | 105.2 | 161.1 | 111.8 | 126.1 | 126.7  | 174.1 | 222.3 | 227.4 | 230.7 | 237.9 |
| 67.5°  | 108.5 | 85.8  | 122.9 | 101.4 | 115.7 | 116.3  | 155.3 | 194.3 | 201.5 | 204.1 | 208.6 |
| 70°    | 75.4  | 57.2  | 91.0  | 90.3  | 104.0 | 105.2  | 135.2 | 169.0 | 175.5 | 177.4 | 180.0 |
| 72.5°  | 55.2  | 46.1  | 75.4  | 81.2  | 91.7  | 92.9   | 114.3 | 140.4 | 146.9 | 148.8 | 150.1 |
| 75°    | 42.2  | 48.7  | 61.0  | 70.8  | 78.0  | 78.6   | 93.6  | 114.3 | 118.9 | 120.3 | 120.8 |
| 77.5°  | 33.8  | 45.4  | 44.9  | 57.2  | 63.7  | 62.4   | 73.5  | 88.4  | 92.2  | 92.2  | 92.2  |
| 80°    | 25.4  | 35.8  | 33.8  | 41.0  | 46.8  | 45.4   | 52.6  | 63.1  | 64.3  | 65.6  | 65.0  |
| 82.5°  | 18.8  | 22.8  | 22.8  | 26.0  | 31.2  | 29.9   | 35.1  | 41.0  | 41.0  | 41.0  | 42.2  |
| 85°    | 11.7  | 13.0  | 10.4  | 13.7  | 17.5  | 16.9   | 19.5  | 22.1  | 22.8  | 22.8  | 21.4  |
| 87.5°  | 7.2   | 5.8   | 3.3   | 5.2   | 7.8   | 7.8    | 9.1   | 9.8   | 9.1   | 9.1   | 9.1   |
| 90°    | 5.2   | 3.6   | 2.0   | 3.6   | 5.2   | 5.6    | 8.8   | 13.1  | 15.2  | 13.5  | 10.1  |
| 92.5°  | 35.2  | 21.5  | 7.9   | 21.5  | 35.2  | 38.6   | 54.2  | 75.0  | 85.5  | 74.9  | 53.8  |
| 95°    | 68.9  | 44.0  | 19.2  | 44.0  | 68.9  | 75.1   | 133.3 | 211.0 | 249.8 | 222.9 | 169.1 |
| 97.5°  | 76.9  | 55.0  | 33.1  | 55.0  | 76.9  | 82.5   | 179.6 | 309.1 | 373.8 | 356.9 | 322.9 |
| 100°   | 83.7  | 63.8  | 43.9  | 63.8  | 83.7  | 88.7   | 196.4 | 340.1 | 412.0 | 413.3 | 415.8 |
| 102.5° | 90.2  | 71.7  | 53.1  | 71.7  | 90.2  | 94.9   | 204.2 | 349.9 | 422.8 | 444.5 | 487.8 |
| 105°   | 100.1 | 84.4  | 68.7  | 84.4  | 100.1 | 104.1  | 209.9 | 351.1 | 421.6 | 470.2 | 567.3 |
| 107.5° | 114.0 | 99.3  | 84.7  | 99.3  | 114.0 | 117.6  | 211.0 | 335.5 | 397.7 | 465.4 | 600.9 |
| 110°   | 121.9 | 108.6 | 95.4  | 108.6 | 121.9 | 125.2  | 209.4 | 321.6 | 377.7 | 453.4 | 604.8 |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 160°  | 170°  | 180°  | 190°  | 200°  | 202.5° | 210°  | 220°  | 225°  | 230°  | 240°  |
|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 112.5° | 131.2 | 118.6 | 106.0 | 118.6 | 131.2 | 134.4  | 209.4 | 309.5 | 359.5 | 437.0 | 592.0 |
| 115°   | 145.3 | 133.6 | 122.0 | 133.6 | 145.3 | 148.2  | 211.3 | 295.5 | 337.7 | 412.3 | 561.6 |
| 117.5° | 158.9 | 148.4 | 137.8 | 148.4 | 158.9 | 161.5  | 215.3 | 286.9 | 322.8 | 390.1 | 524.8 |
| 120°   | 166.9 | 157.0 | 147.0 | 157.0 | 166.9 | 169.4  | 218.5 | 284.0 | 316.8 | 378.3 | 501.5 |
| 122.5° | 176.1 | 166.1 | 156.0 | 166.1 | 176.1 | 178.6  | 223.1 | 282.5 | 312.1 | 367.5 | 478.5 |
| 125°   | 188.0 | 178.9 | 169.8 | 178.9 | 188.0 | 190.3  | 229.3 | 281.2 | 307.2 | 354.3 | 448.5 |
| 127.5° | 199.4 | 190.2 | 180.9 | 190.2 | 199.4 | 201.7  | 235.5 | 280.5 | 303.0 | 343.4 | 424.2 |
| 130°   | 206.8 | 196.9 | 186.9 | 196.9 | 206.8 | 209.3  | 240.0 | 280.9 | 301.4 | 337.4 | 409.4 |
| 132.5° | 213.0 | 203.1 | 193.1 | 203.1 | 213.0 | 215.5  | 243.7 | 281.2 | 300.0 | 332.2 | 396.6 |
| 135°   | 220.4 | 211.3 | 202.3 | 211.3 | 220.4 | 222.7  | 247.7 | 280.9 | 297.6 | 324.5 | 378.5 |
| 137.5° | 229.7 | 220.6 | 211.7 | 220.6 | 229.7 | 231.9  | 253.7 | 282.7 | 297.2 | 320.0 | 365.6 |
| 140°   | 236.0 | 227.7 | 219.5 | 227.7 | 236.0 | 238.1  | 257.3 | 282.9 | 295.7 | 315.5 | 354.9 |
| 142.5° | 240.7 | 233.1 | 225.5 | 233.1 | 240.7 | 242.6  | 260.4 | 283.9 | 295.7 | 313.1 | 347.7 |
| 145°   | 248.0 | 241.3 | 234.7 | 241.3 | 248.0 | 249.6  | 264.3 | 284.0 | 293.8 | 307.9 | 336.2 |
| 147.5° | 256.8 | 250.4 | 243.9 | 250.4 | 256.8 | 258.4  | 270.3 | 286.0 | 293.8 | 304.9 | 327.2 |
| 150°   | 261.5 | 255.6 | 249.8 | 255.6 | 261.5 | 263.0  | 273.3 | 286.9 | 293.8 | 303.2 | 322.0 |
| 152.5° | 264.9 | 260.5 | 256.0 | 260.5 | 264.9 | 266.0  | 275.3 | 287.6 | 293.8 | 301.8 | 317.9 |
| 155°   | 271.8 | 268.5 | 265.2 | 268.5 | 271.8 | 272.6  | 279.7 | 289.1 | 293.8 | 300.2 | 313.0 |
| 157.5° | 278.4 | 275.2 | 272.0 | 275.2 | 278.4 | 279.2  | 284.0 | 290.5 | 293.8 | 298.7 | 308.7 |
| 160°   | 281.6 | 279.1 | 276.6 | 279.1 | 281.6 | 282.2  | 286.0 | 291.2 | 293.8 | 298.1 | 306.6 |
| 162.5° | 284.9 | 283.0 | 281.2 | 283.0 | 284.9 | 285.4  | 288.2 | 292.0 | 293.8 | 297.4 | 304.6 |
| 165°   | 289.6 | 287.9 | 286.2 | 287.9 | 289.6 | 290.0  | 291.3 | 292.9 | 293.8 | 296.3 | 301.5 |
| 167.5° | 292.3 | 291.6 | 290.8 | 291.6 | 292.3 | 292.5  | 293.6 | 295.1 | 295.7 | 297.5 | 300.9 |
| 170°   | 295.4 | 294.6 | 293.8 | 294.6 | 295.4 | 295.5  | 295.6 | 295.7 | 295.7 | 297.5 | 300.9 |
| 172.5° | 295.7 | 295.5 | 295.4 | 295.5 | 295.7 | 295.7  | 295.7 | 295.7 | 295.7 | 297.1 | 299.7 |
| 175°   | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6  | 297.0 | 296.1 | 295.7 | 296.6 | 298.4 |
| 177.5° | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6  | 297.1 | 296.5 | 296.2 | 296.9 | 298.3 |
| 180°   | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6  | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°  | 270°  | 280°  | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 0°     | 686.9  | 686.9 | 686.9 | 686.9 | 686.9 | 686.9 | 686.9  | 686.9 | 686.9 | 686.9 | 686.9 |
| 2.5°   | 662.9  | 661.0 | 663.5 | 656.4 | 663.5 | 661.0 | 662.9  | 667.4 | 663.5 | 666.1 | 668.7 |
| 5°     | 581.6  | 578.4 | 568.0 | 559.5 | 568.0 | 578.4 | 581.6  | 595.3 | 601.7 | 613.5 | 629.1 |
| 7.5°   | 519.9  | 517.3 | 514.7 | 509.5 | 514.7 | 517.3 | 519.9  | 523.7 | 530.3 | 540.7 | 552.4 |
| 10°    | 506.2  | 506.9 | 510.8 | 510.2 | 510.8 | 506.9 | 506.2  | 504.9 | 503.0 | 504.9 | 512.1 |
| 12.5°  | 541.4  | 547.2 | 568.6 | 567.3 | 568.6 | 547.2 | 541.4  | 515.3 | 497.8 | 494.6 | 495.8 |
| 15°    | 581.6  | 583.5 | 588.1 | 588.8 | 588.1 | 583.5 | 581.6  | 571.2 | 518.6 | 495.8 | 488.7 |
| 17.5°  | 585.6  | 586.1 | 589.4 | 589.4 | 589.4 | 586.1 | 585.6  | 581.0 | 563.5 | 532.9 | 492.6 |
| 20°    | 582.3  | 583.5 | 590.1 | 591.4 | 590.1 | 583.5 | 582.3  | 576.5 | 566.7 | 555.6 | 525.1 |
| 22.5°  | 581.0  | 583.5 | 588.8 | 588.1 | 588.8 | 583.5 | 581.0  | 571.9 | 563.5 | 555.6 | 543.3 |
| 25°    | 574.5  | 574.5 | 575.1 | 575.8 | 575.1 | 574.5 | 574.5  | 567.3 | 550.4 | 548.5 | 541.4 |
| 27.5°  | 560.9  | 562.1 | 566.0 | 565.4 | 566.0 | 562.1 | 560.9  | 558.2 | 540.0 | 538.1 | 532.9 |
| 30°    | 548.5  | 547.2 | 543.9 | 541.4 | 543.9 | 547.2 | 548.5  | 544.6 | 526.4 | 521.2 | 522.5 |
| 32.5°  | 527.7  | 524.4 | 521.2 | 519.3 | 521.2 | 524.4 | 527.7  | 526.4 | 512.7 | 505.6 | 506.9 |
| 35°    | 503.0  | 503.7 | 503.0 | 501.1 | 503.0 | 503.7 | 503.0  | 504.3 | 495.8 | 489.3 | 488.7 |
| 37.5°  | 485.5  | 486.7 | 486.1 | 483.5 | 486.1 | 486.7 | 485.5  | 484.1 | 472.5 | 470.5 | 471.8 |
| 40°    | 467.3  | 467.9 | 467.3 | 465.3 | 467.3 | 467.9 | 467.3  | 464.6 | 448.5 | 449.0 | 453.6 |
| 42.5°  | 449.7  | 449.0 | 447.1 | 445.8 | 447.1 | 449.0 | 449.7  | 445.8 | 425.0 | 423.1 | 431.5 |
| 45°    | 429.6  | 430.2 | 426.3 | 424.3 | 426.3 | 430.2 | 429.6  | 426.9 | 405.5 | 400.3 | 406.2 |
| 47.5°  | 409.4  | 409.4 | 406.2 | 404.2 | 406.2 | 409.4 | 409.4  | 406.2 | 383.4 | 378.2 | 381.5 |
| 50°    | 388.0  | 387.3 | 382.8 | 382.1 | 382.8 | 387.3 | 388.0  | 386.0 | 362.0 | 357.5 | 357.5 |
| 52.5°  | 363.3  | 363.3 | 364.0 | 365.2 | 364.0 | 363.3 | 363.3  | 364.0 | 342.4 | 337.9 | 336.6 |
| 55°    | 341.9  | 342.4 | 347.0 | 348.4 | 347.0 | 342.4 | 341.9  | 341.9 | 322.3 | 317.7 | 315.2 |
| 57.5°  | 319.8  | 319.8 | 323.0 | 323.0 | 323.0 | 319.8 | 319.8  | 318.4 | 299.6 | 295.6 | 294.4 |
| 60°    | 294.4  | 295.6 | 298.3 | 297.7 | 298.3 | 295.6 | 294.4  | 293.1 | 276.8 | 274.2 | 269.7 |
| 62.5°  | 267.7  | 269.1 | 269.7 | 268.4 | 269.7 | 269.1 | 267.7  | 263.9 | 254.1 | 252.1 | 246.3 |
| 65°    | 239.8  | 241.1 | 241.8 | 240.4 | 241.8 | 241.1 | 239.8  | 237.9 | 230.7 | 227.4 | 222.3 |
| 67.5°  | 211.2  | 210.6 | 209.9 | 212.5 | 209.9 | 210.6 | 211.2  | 208.6 | 204.1 | 201.5 | 194.3 |
| 70°    | 182.0  | 182.0 | 181.3 | 182.7 | 181.3 | 182.0 | 182.0  | 180.0 | 177.4 | 175.5 | 169.0 |
| 72.5°  | 150.8  | 150.1 | 152.7 | 150.8 | 152.7 | 150.1 | 150.8  | 150.1 | 148.8 | 146.9 | 140.4 |
| 75°    | 120.3  | 121.5 | 120.3 | 122.2 | 120.3 | 121.5 | 120.3  | 120.8 | 120.3 | 118.9 | 114.3 |
| 77.5°  | 91.7   | 92.9  | 91.7  | 91.7  | 91.7  | 92.9  | 91.7   | 92.2  | 92.2  | 92.2  | 88.4  |
| 80°    | 65.0   | 64.3  | 64.3  | 63.7  | 64.3  | 64.3  | 65.0   | 65.0  | 65.6  | 64.3  | 63.1  |
| 82.5°  | 41.6   | 41.0  | 41.0  | 42.2  | 41.0  | 41.0  | 41.6   | 42.2  | 41.0  | 41.0  | 41.0  |
| 85°    | 22.8   | 23.4  | 22.1  | 22.1  | 22.1  | 23.4  | 22.8   | 21.4  | 22.8  | 22.8  | 22.1  |
| 87.5°  | 8.4    | 7.8   | 7.8   | 7.8   | 7.8   | 7.8   | 8.4    | 9.1   | 9.1   | 9.1   | 9.8   |
| 90°    | 7.6    | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   | 7.6    | 10.1  | 13.5  | 15.2  | 13.1  |
| 92.5°  | 38.0   | 36.4  | 30.4  | 24.3  | 30.4  | 36.4  | 38.0   | 53.8  | 74.9  | 85.5  | 75.0  |
| 95°    | 128.8  | 124.2 | 105.9 | 87.7  | 105.9 | 124.2 | 128.8  | 169.1 | 222.9 | 249.8 | 211.0 |
| 97.5°  | 297.4  | 288.7 | 253.9 | 219.1 | 253.9 | 288.7 | 297.4  | 322.9 | 356.9 | 373.8 | 309.1 |
| 100°   | 417.6  | 407.3 | 365.8 | 324.3 | 365.8 | 407.3 | 417.6  | 415.8 | 413.3 | 412.0 | 340.1 |
| 102.5° | 520.3  | 511.3 | 475.9 | 440.4 | 475.9 | 511.3 | 520.3  | 487.8 | 444.5 | 422.8 | 349.9 |
| 105°   | 640.1  | 635.4 | 616.3 | 597.2 | 616.3 | 635.4 | 640.1  | 567.3 | 470.2 | 421.6 | 351.1 |
| 107.5° | 702.4  | 703.6 | 708.1 | 712.8 | 708.1 | 703.6 | 702.4  | 600.9 | 465.4 | 397.7 | 335.5 |
| 110°   | 718.4  | 723.4 | 743.2 | 763.1 | 743.2 | 723.4 | 718.4  | 604.8 | 453.4 | 377.7 | 321.6 |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 260°  | 270°  | 280°  | 290°  | 292.5° | 300°  | 310°  | 315°  | 320°  |
|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 112.5° | 708.2  | 715.9 | 746.4 | 776.9 | 746.4 | 715.9 | 708.2  | 592.0 | 437.0 | 359.5 | 309.5 |
| 115°   | 673.6  | 684.2 | 726.6 | 768.9 | 726.6 | 684.2 | 673.6  | 561.6 | 412.3 | 337.7 | 295.5 |
| 117.5° | 625.9  | 637.6 | 684.6 | 731.6 | 684.6 | 637.6 | 625.9  | 524.8 | 390.1 | 322.8 | 286.9 |
| 120°   | 593.8  | 605.2 | 650.8 | 696.4 | 650.8 | 605.2 | 593.8  | 501.5 | 378.3 | 316.8 | 284.0 |
| 122.5° | 561.6  | 572.9 | 617.9 | 662.9 | 617.9 | 572.9 | 561.6  | 478.5 | 367.5 | 312.1 | 282.5 |
| 125°   | 519.1  | 529.5 | 570.8 | 612.3 | 570.8 | 529.5 | 519.1  | 448.5 | 354.3 | 307.2 | 281.2 |
| 127.5° | 484.9  | 493.6 | 528.6 | 563.6 | 528.6 | 493.6 | 484.9  | 424.2 | 343.4 | 303.0 | 280.5 |
| 130°   | 463.4  | 471.4 | 503.8 | 536.1 | 503.8 | 471.4 | 463.4  | 409.4 | 337.4 | 301.4 | 280.9 |
| 132.5° | 445.0  | 452.2 | 481.1 | 510.1 | 481.1 | 452.2 | 445.0  | 396.6 | 332.2 | 300.0 | 281.2 |
| 135°   | 419.0  | 425.2 | 450.2 | 475.1 | 450.2 | 425.2 | 419.0  | 378.5 | 324.5 | 297.6 | 280.9 |
| 137.5° | 399.8  | 404.9 | 425.3 | 445.7 | 425.3 | 404.9 | 399.8  | 365.6 | 320.0 | 297.2 | 282.7 |
| 140°   | 384.5  | 389.2 | 408.3 | 427.4 | 408.3 | 389.2 | 384.5  | 354.9 | 315.5 | 295.7 | 282.9 |
| 142.5° | 373.6  | 377.7 | 394.2 | 410.7 | 394.2 | 377.7 | 373.6  | 347.7 | 313.1 | 295.7 | 283.9 |
| 145°   | 357.5  | 360.6 | 373.1 | 385.5 | 373.1 | 360.6 | 357.5  | 336.2 | 307.9 | 293.8 | 284.0 |
| 147.5° | 343.9  | 346.5 | 356.8 | 367.1 | 356.8 | 346.5 | 343.9  | 327.2 | 304.9 | 293.8 | 286.0 |
| 150°   | 336.1  | 338.3 | 346.6 | 354.9 | 346.6 | 338.3 | 336.1  | 322.0 | 303.2 | 293.8 | 286.9 |
| 152.5° | 329.9  | 331.5 | 337.8 | 344.1 | 337.8 | 331.5 | 329.9  | 317.9 | 301.8 | 293.8 | 287.6 |
| 155°   | 322.6  | 323.6 | 327.8 | 332.0 | 327.8 | 323.6 | 322.6  | 313.0 | 300.2 | 293.8 | 289.1 |
| 157.5° | 316.2  | 317.0 | 319.9 | 322.8 | 319.9 | 317.0 | 316.2  | 308.7 | 298.7 | 293.8 | 290.5 |
| 160°   | 313.0  | 313.4 | 315.1 | 316.8 | 315.1 | 313.4 | 313.0  | 306.6 | 298.1 | 293.8 | 291.2 |
| 162.5° | 310.0  | 310.4 | 312.0 | 313.6 | 312.0 | 310.4 | 310.0  | 304.6 | 297.4 | 293.8 | 292.0 |
| 165°   | 305.3  | 305.7 | 307.5 | 309.2 | 307.5 | 305.7 | 305.3  | 301.5 | 296.3 | 293.8 | 292.9 |
| 167.5° | 303.4  | 303.6 | 304.3 | 304.9 | 304.3 | 303.6 | 303.4  | 300.9 | 297.5 | 295.7 | 295.1 |
| 170°   | 303.4  | 303.4 | 303.4 | 303.4 | 303.4 | 303.4 | 303.4  | 300.9 | 297.5 | 295.7 | 295.7 |
| 172.5° | 301.7  | 301.6 | 301.0 | 300.4 | 301.0 | 301.6 | 301.7  | 299.7 | 297.1 | 295.7 | 295.7 |
| 175°   | 299.6  | 299.6 | 299.6 | 299.6 | 299.6 | 299.6 | 299.6  | 298.4 | 296.6 | 295.7 | 296.1 |
| 177.5° | 299.2  | 299.0 | 298.4 | 297.6 | 298.4 | 299.0 | 299.2  | 298.3 | 296.9 | 296.2 | 296.5 |
| 180°   | 297.6  | 297.6 | 297.6 | 297.6 | 297.6 | 297.6 | 297.6  | 297.6 | 297.6 | 297.6 | 297.6 |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 0°     | 686.9 | 686.9  | 686.9 | 686.9 | 686.9 |
| 2.5°   | 678.5 | 681.7  | 683.6 | 686.2 | 692.7 |
| 5°     | 652.4 | 664.8  | 668.7 | 678.5 | 690.1 |
| 7.5°   | 595.3 | 633.0  | 643.3 | 666.8 | 685.0 |
| 10°    | 540.0 | 577.7  | 595.9 | 651.2 | 678.5 |
| 12.5°  | 512.1 | 534.2  | 546.5 | 623.8 | 669.4 |
| 15°    | 494.6 | 510.2  | 519.3 | 587.5 | 658.9 |
| 17.5°  | 480.9 | 492.0  | 498.5 | 551.7 | 644.7 |
| 20°    | 472.5 | 477.6  | 483.5 | 525.8 | 628.4 |
| 22.5°  | 466.6 | 463.4  | 467.9 | 507.6 | 606.3 |
| 25°    | 462.7 | 450.4  | 455.5 | 493.2 | 580.3 |
| 27.5°  | 466.0 | 438.7  | 440.6 | 480.2 | 553.0 |
| 30°    | 466.6 | 424.3  | 425.0 | 466.6 | 522.5 |
| 32.5°  | 462.0 | 409.4  | 410.1 | 449.7 | 488.1 |
| 35°    | 451.0 | 391.9  | 391.2 | 430.2 | 441.3 |
| 37.5°  | 436.0 | 373.1  | 373.1 | 408.7 | 389.9 |
| 40°    | 417.8 | 354.2  | 356.1 | 380.8 | 344.4 |
| 42.5°  | 395.7 | 334.0  | 336.6 | 343.8 | 310.7 |
| 45°    | 371.7 | 314.5  | 316.5 | 290.5 | 284.6 |
| 47.5°  | 345.1 | 294.4  | 295.1 | 241.1 | 276.2 |
| 50°    | 313.3 | 273.5  | 271.0 | 206.7 | 275.6 |
| 52.5°  | 285.3 | 250.9  | 243.0 | 187.1 | 250.2 |
| 55°    | 257.9 | 226.8  | 209.9 | 172.2 | 232.0 |
| 57.5°  | 233.9 | 195.6  | 179.4 | 154.7 | 228.1 |
| 60°    | 211.8 | 165.0  | 152.7 | 135.9 | 209.3 |
| 62.5°  | 193.7 | 142.3  | 139.7 | 122.9 | 189.7 |
| 65°    | 174.1 | 126.7  | 126.1 | 111.8 | 161.1 |
| 67.5°  | 155.3 | 116.3  | 115.7 | 101.4 | 122.9 |
| 70°    | 135.2 | 105.2  | 104.0 | 90.3  | 91.0  |
| 72.5°  | 114.3 | 92.9   | 91.7  | 81.2  | 75.4  |
| 75°    | 93.6  | 78.6   | 78.0  | 70.8  | 61.0  |
| 77.5°  | 73.5  | 62.4   | 63.7  | 57.2  | 44.9  |
| 80°    | 52.6  | 45.4   | 46.8  | 41.0  | 33.8  |
| 82.5°  | 35.1  | 29.9   | 31.2  | 26.0  | 22.8  |
| 85°    | 19.5  | 16.9   | 17.5  | 13.7  | 10.4  |
| 87.5°  | 9.1   | 7.8    | 7.8   | 5.2   | 3.3   |
| 90°    | 8.8   | 5.6    | 5.2   | 3.6   | 2.0   |
| 92.5°  | 54.2  | 38.6   | 35.2  | 21.5  | 7.9   |
| 95°    | 133.3 | 75.1   | 68.9  | 44.0  | 19.2  |
| 97.5°  | 179.6 | 82.5   | 76.9  | 55.0  | 33.1  |
| 100°   | 196.4 | 88.7   | 83.7  | 63.8  | 43.9  |
| 102.5° | 204.2 | 94.9   | 90.2  | 71.7  | 53.1  |
| 105°   | 209.9 | 104.1  | 100.1 | 84.4  | 68.7  |
| 107.5° | 211.0 | 117.6  | 114.0 | 99.3  | 84.7  |
| 110°   | 209.4 | 125.2  | 121.9 | 108.6 | 95.4  |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 330°  | 337.5° | 340°  | 350°  | 360°  |
|--------|-------|--------|-------|-------|-------|
| 112.5° | 209.4 | 134.4  | 131.2 | 118.6 | 106.0 |
| 115°   | 211.3 | 148.2  | 145.3 | 133.6 | 122.0 |
| 117.5° | 215.3 | 161.5  | 158.9 | 148.4 | 137.8 |
| 120°   | 218.5 | 169.4  | 166.9 | 157.0 | 147.0 |
| 122.5° | 223.1 | 178.6  | 176.1 | 166.1 | 156.0 |
| 125°   | 229.3 | 190.3  | 188.0 | 178.9 | 169.8 |
| 127.5° | 235.5 | 201.7  | 199.4 | 190.2 | 180.9 |
| 130°   | 240.0 | 209.3  | 206.8 | 196.9 | 186.9 |
| 132.5° | 243.7 | 215.5  | 213.0 | 203.1 | 193.1 |
| 135°   | 247.7 | 222.7  | 220.4 | 211.3 | 202.3 |
| 137.5° | 253.7 | 231.9  | 229.7 | 220.6 | 211.7 |
| 140°   | 257.3 | 238.1  | 236.0 | 227.7 | 219.5 |
| 142.5° | 260.4 | 242.6  | 240.7 | 233.1 | 225.5 |
| 145°   | 264.3 | 249.6  | 248.0 | 241.3 | 234.7 |
| 147.5° | 270.3 | 258.4  | 256.8 | 250.4 | 243.9 |
| 150°   | 273.3 | 263.0  | 261.5 | 255.6 | 249.8 |
| 152.5° | 275.3 | 266.0  | 264.9 | 260.5 | 256.0 |
| 155°   | 279.7 | 272.6  | 271.8 | 268.5 | 265.2 |
| 157.5° | 284.0 | 279.2  | 278.4 | 275.2 | 272.0 |
| 160°   | 286.0 | 282.2  | 281.6 | 279.1 | 276.6 |
| 162.5° | 288.2 | 285.4  | 284.9 | 283.0 | 281.2 |
| 165°   | 291.3 | 290.0  | 289.6 | 287.9 | 286.2 |
| 167.5° | 293.6 | 292.5  | 292.3 | 291.6 | 290.8 |
| 170°   | 295.6 | 295.5  | 295.4 | 294.6 | 293.8 |
| 172.5° | 295.7 | 295.7  | 295.7 | 295.5 | 295.4 |
| 175°   | 297.0 | 297.6  | 297.6 | 297.6 | 297.6 |
| 177.5° | 297.1 | 297.6  | 297.6 | 297.6 | 297.6 |
| 180°   | 297.6 | 297.6  | 297.6 | 297.6 | 297.6 |

TEST NUMBER: P934284

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-3500K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 11.04            | 11.89 | 12.02 | 12.87 | 14.17 | 13.84          | 14.68 | 14.81 | 15.67 | 16.97 |
|                 | 3H   | 11.52            | 12.27 | 12.50 | 13.27 | 14.59 | 15.17          | 15.93 | 16.16 | 16.93 | 18.25 |
|                 | 4H   | 11.71            | 12.42 | 12.71 | 13.43 | 14.75 | 15.61          | 16.33 | 16.61 | 17.33 | 18.66 |
|                 | 6H   | 11.83            | 12.49 | 12.84 | 13.49 | 14.83 | 15.89          | 16.55 | 16.90 | 17.55 | 18.89 |
|                 | 8H   | 11.83            | 12.46 | 12.84 | 13.48 | 14.82 | 15.96          | 16.58 | 16.97 | 17.61 | 18.94 |
|                 | 12H  | 11.80            | 12.40 | 12.82 | 13.41 | 14.77 | 15.99          | 16.59 | 17.01 | 17.60 | 18.97 |
| 4H              | 2H   | 12.07            | 12.78 | 13.07 | 13.78 | 15.11 | 14.25          | 14.96 | 15.25 | 15.97 | 17.29 |
|                 | 3H   | 13.09            | 13.69 | 14.10 | 14.72 | 16.06 | 15.74          | 16.34 | 16.76 | 17.37 | 18.71 |
|                 | 4H   | 13.37            | 13.91 | 14.39 | 14.93 | 16.30 | 16.26          | 16.81 | 17.29 | 17.83 | 19.20 |
|                 | 6H   | 13.49            | 13.96 | 14.52 | 15.00 | 16.37 | 16.62          | 17.09 | 17.65 | 18.13 | 19.50 |
|                 | 8H   | 13.50            | 13.93 | 14.53 | 14.97 | 16.35 | 16.72          | 17.16 | 17.76 | 18.20 | 19.58 |
|                 | 12H  | 13.46            | 13.86 | 14.51 | 14.91 | 16.29 | 16.77          | 17.17 | 17.82 | 18.22 | 19.60 |
| 8H              | 4H   | 13.81            | 14.25 | 14.85 | 15.29 | 16.67 | 16.39          | 16.83 | 17.42 | 17.86 | 19.24 |
|                 | 6H   | 14.07            | 14.44 | 15.13 | 15.52 | 16.89 | 16.82          | 17.18 | 17.87 | 18.26 | 19.63 |
|                 | 8H   | 14.12            | 14.44 | 15.18 | 15.50 | 16.89 | 16.96          | 17.28 | 18.03 | 18.35 | 19.74 |
|                 | 12H  | 14.10            | 14.38 | 15.17 | 15.44 | 16.88 | 17.05          | 17.33 | 18.12 | 18.39 | 19.83 |
| 12H             | 4H   | 13.82            | 14.21 | 14.87 | 15.27 | 16.65 | 16.35          | 16.75 | 17.40 | 17.80 | 19.18 |
|                 | 6H   | 14.13            | 14.45 | 15.20 | 15.52 | 16.91 | 16.81          | 17.13 | 17.88 | 18.20 | 19.59 |
|                 | 8H   | 14.20            | 14.48 | 15.27 | 15.54 | 16.97 | 16.97          | 17.25 | 18.04 | 18.31 | 19.74 |

END OF REPORT