

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427639

Luminaire Tested: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427639  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

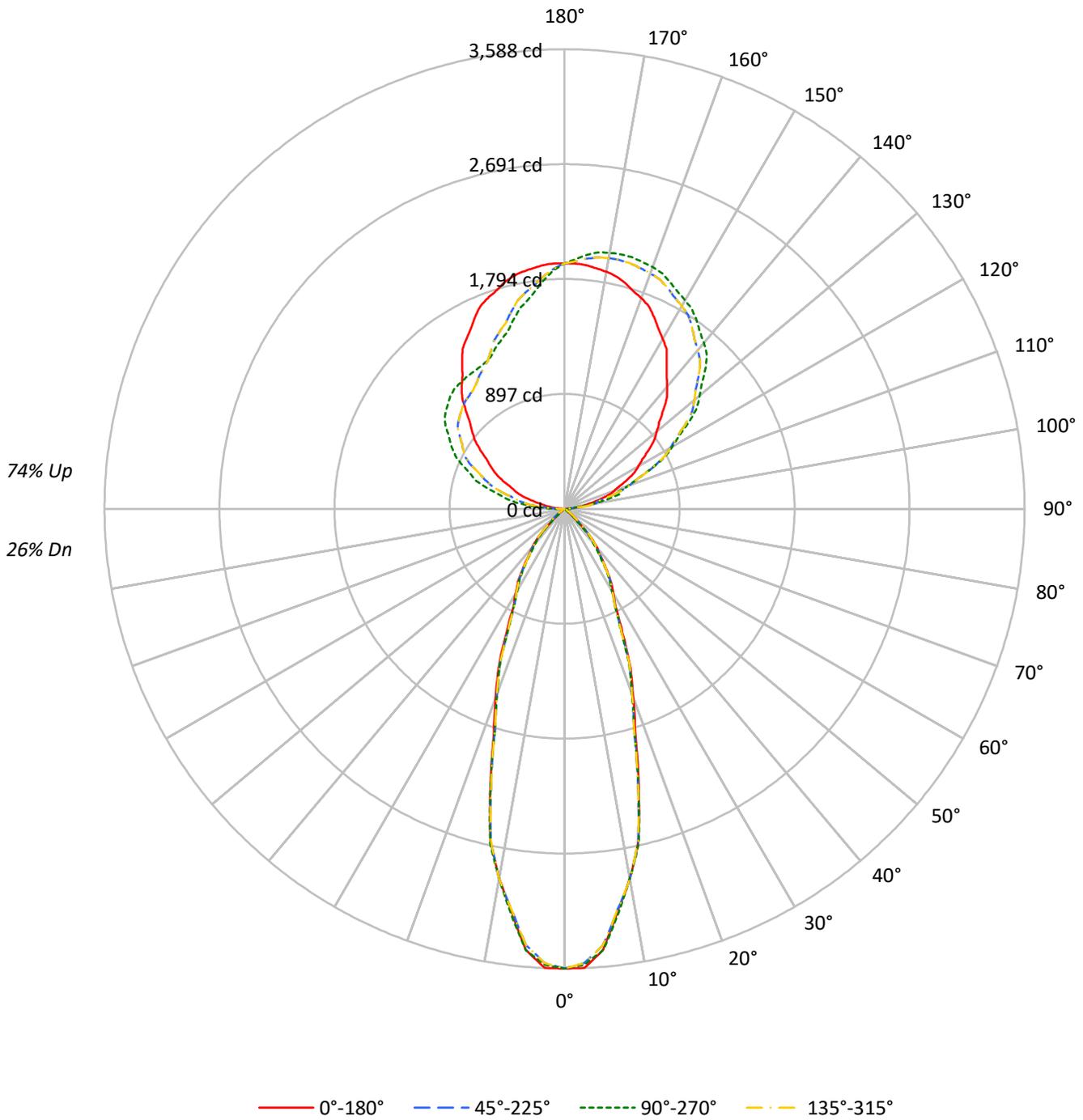
Lumens per Lamp: N/A  
Luminaire Lumens: 7540.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 73.2  
Input Voltage (V): 120  
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: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1427639

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1   | 94  | 90  | 87  | 84  | 84 | 81 | 78 | 75 | 63 | 61 | 60 | 47 | 46 | 45 | 32 | 31 | 31 | 24 |
| 2   | 86  | 80  | 75  | 71  | 77 | 72 | 68 | 64 | 57 | 54 | 52 | 43 | 41 | 40 | 30 | 29 | 28 | 23 |
| 3   | 80  | 72  | 66  | 61  | 71 | 65 | 60 | 56 | 52 | 48 | 45 | 39 | 37 | 36 | 28 | 27 | 26 | 21 |
| 4   | 74  | 65  | 58  | 53  | 66 | 59 | 53 | 49 | 47 | 43 | 40 | 36 | 34 | 32 | 26 | 25 | 24 | 20 |
| 5   | 69  | 59  | 52  | 47  | 61 | 53 | 47 | 43 | 43 | 39 | 36 | 34 | 31 | 29 | 25 | 23 | 22 | 19 |
| 6   | 64  | 53  | 46  | 41  | 57 | 49 | 43 | 38 | 40 | 35 | 32 | 31 | 29 | 26 | 23 | 22 | 21 | 18 |
| 7   | 59  | 49  | 42  | 37  | 54 | 45 | 39 | 35 | 37 | 32 | 29 | 29 | 26 | 24 | 22 | 20 | 19 | 17 |
| 8   | 56  | 45  | 38  | 34  | 50 | 41 | 35 | 31 | 34 | 30 | 27 | 27 | 24 | 22 | 21 | 19 | 18 | 16 |
| 9   | 52  | 41  | 35  | 31  | 47 | 38 | 32 | 29 | 32 | 27 | 25 | 25 | 23 | 21 | 20 | 18 | 17 | 15 |
| 10  | 49  | 38  | 32  | 28  | 44 | 35 | 30 | 26 | 29 | 25 | 23 | 24 | 21 | 19 | 19 | 17 | 16 | 14 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 57938 | 57938 | 57938 | 57938 |
| 5°  | 56001 | 56032 | 56001 | 56032 |
| 10° | 48061 | 48061 | 48061 | 48061 |
| 15° | 37303 | 37218 | 37303 | 37218 |
| 20° | 26922 | 26345 | 26922 | 26345 |
| 25° | 19090 | 18363 | 19090 | 18363 |
| 30° | 14202 | 13708 | 14202 | 13708 |
| 35° | 11051 | 10541 | 11051 | 10541 |
| 40° | 8178  | 7470  | 8178  | 7470  |
| 45° | 4178  | 3366  | 4178  | 3366  |
| 50° | 909   | 666   | 909   | 666   |
| 55° | 256   | 200   | 256   | 200   |
| 60° | 42    | 19    | 42    | 19    |
| 65° | 0     | 0     | 0     | 0     |
| 70° | 0     | 0     | 0     | 0     |
| 75° | 0     | 0     | 0     | 0     |
| 80° | 0     | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 260°  
 Vertical Angle: 87.5°  
 Luminance: 6441 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 310.3  | 4.1       |
| 10°-20°   | 611.8  | 8.1       |
| 20°-30°   | 493.5  | 6.5       |
| 30°-40°   | 342.8  | 4.5       |
| 40°-50°   | 158.4  | 2.1       |
| 50°-60°   | 22.2   | 0.3       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 10.2   | 0.1       |
| 90°-100°  | 152.4  | 2.0       |
| 100°-110° | 444.5  | 5.9       |
| 110°-120° | 725.4  | 9.6       |
| 120°-130° | 920.5  | 12.2      |
| 130°-140° | 985.0  | 13.1      |
| 140°-150° | 919.8  | 12.2      |
| 150°-160° | 756.8  | 10.0      |
| 160°-170° | 507.6  | 6.7       |
| 170°-180° | 180.2  | 2.4       |
| 0°-30°    | 1415.6 | 18.8      |
| 0°-40°    | 1758.4 | 23.3      |
| 0°-60°    | 1939.0 | 25.7      |
| 0°-90°    | 1949.9 | 25.9      |
| 90°-120°  | 1322.4 | 17.5      |
| 90°-150°  | 4147.7 | 55.0      |
| 90°-180°  | 5592.0 | 74.2      |
| 0°-180°   | 7540.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3588 | 3588 | 3588 | 3588 | 3588 |      |
| 5°   | 3455 | 3457 | 3455 | 3457 | 3455 | 311  |
| 15°  | 2232 | 2227 | 2232 | 2227 | 2232 | 614  |
| 25°  | 1072 | 1031 | 1072 | 1031 | 1072 | 502  |
| 35°  | 561  | 535  | 561  | 535  | 561  | 351  |
| 45°  | 183  | 147  | 183  | 147  | 183  | 148  |
| 55°  | 9    | 7    | 9    | 7    | 9    | 11   |
| 65°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 75°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 85°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 90°  | 6    | 43   | 6    | 83   | 6    | 5    |
| 95°  | 60   | 44   | 60   | 261  | 60   | 72   |
| 105° | 282  | 453  | 282  | 623  | 282  | 300  |
| 115° | 542  | 751  | 542  | 925  | 542  | 534  |
| 125° | 801  | 1190 | 801  | 1134 | 801  | 717  |
| 135° | 1089 | 1557 | 1089 | 1256 | 1089 | 842  |
| 145° | 1391 | 1795 | 1391 | 1283 | 1391 | 870  |
| 155° | 1652 | 1950 | 1652 | 1331 | 1652 | 759  |
| 165° | 1826 | 2033 | 1826 | 1532 | 1826 | 514  |
| 175° | 1910 | 1991 | 1910 | 1797 | 1910 | 181  |
| 180° | 1915 | 1915 | 1915 | 1915 | 1915 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 |
| 2.5°   | 3586.4 | 3580.4 | 3574.5 | 3562.6 | 3548.8 | 3548.3 | 3560.9 | 3569.4 | 3565.5 | 3561.6 | 3565.5 |
| 5°     | 3455.3 | 3446.9 | 3438.6 | 3428.5 | 3417.9 | 3421.9 | 3440.6 | 3454.9 | 3456.1 | 3457.2 | 3456.1 |
| 7.5°   | 3165.8 | 3168.5 | 3171.2 | 3164.3 | 3154.2 | 3159.5 | 3180.2 | 3195.1 | 3192.9 | 3190.6 | 3192.9 |
| 10°    | 2931.5 | 2933.5 | 2935.5 | 2935.1 | 2934.0 | 2936.8 | 2943.7 | 2947.0 | 2939.2 | 2931.5 | 2939.2 |
| 12.5°  | 2659.8 | 2667.8 | 2675.8 | 2666.6 | 2651.7 | 2649.4 | 2659.7 | 2668.3 | 2671.6 | 2674.8 | 2671.6 |
| 15°    | 2231.7 | 2244.7 | 2257.6 | 2239.3 | 2210.5 | 2203.1 | 2216.9 | 2227.1 | 2226.8 | 2226.6 | 2226.8 |
| 17.5°  | 1830.3 | 1828.9 | 1827.6 | 1816.3 | 1801.6 | 1795.6 | 1798.2 | 1799.9 | 1799.1 | 1798.2 | 1799.1 |
| 20°    | 1566.9 | 1564.9 | 1562.9 | 1553.1 | 1540.8 | 1533.6 | 1531.6 | 1530.4 | 1531.9 | 1533.3 | 1531.9 |
| 22.5°  | 1341.4 | 1338.0 | 1334.6 | 1330.5 | 1326.2 | 1321.5 | 1316.5 | 1313.3 | 1315.2 | 1317.1 | 1315.2 |
| 25°    | 1071.6 | 1060.6 | 1049.7 | 1041.0 | 1032.9 | 1032.3 | 1039.2 | 1042.9 | 1036.9 | 1030.8 | 1036.9 |
| 27.5°  | 860.1  | 859.9  | 859.8  | 854.6  | 847.7  | 844.7  | 845.4  | 846.3  | 847.4  | 848.6  | 847.4  |
| 30°    | 761.8  | 759.8  | 757.8  | 752.3  | 745.7  | 742.5  | 742.8  | 742.2  | 738.7  | 735.3  | 738.7  |
| 32.5°  | 674.4  | 675.8  | 677.2  | 671.4  | 663.2  | 658.3  | 656.8  | 654.8  | 651.3  | 647.9  | 651.3  |
| 35°    | 560.7  | 560.7  | 560.7  | 555.9  | 549.6  | 544.3  | 540.0  | 536.5  | 535.7  | 534.8  | 535.7  |
| 37.5°  | 455.3  | 454.8  | 454.2  | 450.7  | 446.3  | 441.0  | 434.9  | 429.7  | 427.5  | 425.3  | 427.5  |
| 40°    | 388.0  | 386.6  | 385.1  | 382.6  | 379.8  | 374.6  | 367.1  | 360.7  | 357.5  | 354.4  | 357.5  |
| 42.5°  | 311.4  | 315.3  | 319.1  | 318.0  | 315.1  | 309.9  | 302.4  | 295.6  | 290.9  | 286.1  | 290.9  |
| 45°    | 183.0  | 199.1  | 215.2  | 221.0  | 223.3  | 220.1  | 211.5  | 198.6  | 173.0  | 147.4  | 173.0  |
| 47.5°  | 78.6   | 96.3   | 114.0  | 128.9  | 142.8  | 138.4  | 115.7  | 93.4   | 72.1   | 50.8   | 72.1   |
| 50°    | 36.2   | 50.0   | 63.8   | 82.3   | 102.5  | 98.3   | 69.8   | 46.1   | 36.3   | 26.5   | 36.3   |
| 52.5°  | 21.2   | 28.1   | 35.0   | 52.3   | 73.1   | 71.3   | 46.7   | 27.0   | 21.9   | 16.7   | 21.9   |
| 55°    | 9.1    | 11.4   | 13.7   | 23.1   | 34.8   | 34.3   | 21.3   | 11.1   | 9.1    | 7.1    | 9.1    |
| 57.5°  | 3.4    | 4.6    | 5.9    | 9.3    | 13.4   | 13.1   | 8.5    | 4.8    | 3.8    | 2.7    | 3.8    |
| 60°    | 1.3    | 1.9    | 2.4    | 4.1    | 6.1    | 6.0    | 3.7    | 1.8    | 1.2    | 0.6    | 1.2    |
| 62.5°  | 0.3    | 0.6    | 0.9    | 1.9    | 2.9    | 2.9    | 1.8    | 0.8    | 0.5    | 0.1    | 0.5    |
| 65°    | 0.0    | 0.0    | 0.0    | 0.2    | 0.5    | 0.5    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 1.2    | 2.7    | 4.6    | 6.2    | 7.4    | 7.7    | 7.7    | 8.1    | 8.5    | 8.5    | 8.5    |
| 90°    | 5.8    | 13.5   | 23.2   | 31.0   | 36.8   | 38.7   | 38.7   | 40.6   | 42.6   | 42.6   | 42.6   |
| 92.5°  | 21.3   | 33.7   | 34.0   | 34.0   | 41.4   | 44.9   | 48.0   | 48.4   | 50.3   | 50.3   | 50.3   |
| 95°    | 60.0   | 65.8   | 98.7   | 96.7   | 65.8   | 52.2   | 44.5   | 44.5   | 44.5   | 44.5   | 44.5   |
| 97.5°  | 114.5  | 123.0  | 128.5  | 172.2  | 181.9  | 175.7  | 143.2  | 120.3  | 107.6  | 101.8  | 107.6  |
| 100°   | 162.5  | 166.4  | 178.0  | 179.9  | 228.3  | 274.7  | 251.5  | 222.5  | 212.8  | 207.0  | 212.8  |
| 102.5° | 210.5  | 212.8  | 230.6  | 238.7  | 250.0  | 276.3  | 356.7  | 347.8  | 341.3  | 340.1  | 341.3  |
| 105°   | 282.5  | 284.4  | 317.3  | 332.8  | 340.5  | 340.5  | 338.6  | 377.3  | 439.2  | 452.7  | 439.2  |
| 107.5° | 359.5  | 368.4  | 407.0  | 448.4  | 457.3  | 459.7  | 449.6  | 443.8  | 441.5  | 443.0  | 441.5  |
| 110°   | 412.1  | 425.6  | 472.1  | 524.3  | 537.8  | 541.7  | 537.8  | 532.0  | 528.2  | 528.2  | 528.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 463.2  | 482.9  | 535.5  | 595.5  | 618.3  | 629.9  | 621.4  | 617.2  | 613.3  | 616.4  | 613.3  |
| 115°   | 541.7  | 570.7  | 640.4  | 702.3  | 748.7  | 754.5  | 752.6  | 752.6  | 750.6  | 750.6  | 750.6  |
| 117.5° | 614.4  | 660.9  | 739.0  | 811.0  | 864.8  | 880.3  | 888.0  | 885.7  | 883.4  | 887.2  | 883.4  |
| 120°   | 665.5  | 719.7  | 808.7  | 889.9  | 942.2  | 965.4  | 973.1  | 969.3  | 973.1  | 969.3  | 973.1  |
| 122.5° | 719.7  | 786.2  | 873.7  | 958.0  | 1019.6 | 1045.9 | 1055.2 | 1055.9 | 1056.7 | 1054.4 | 1056.7 |
| 125°   | 800.9  | 882.2  | 984.7  | 1071.8 | 1135.6 | 1166.6 | 1174.3 | 1176.3 | 1180.1 | 1189.8 | 1180.1 |
| 127.5° | 883.0  | 975.1  | 1087.7 | 1171.6 | 1237.0 | 1274.5 | 1286.5 | 1290.8 | 1298.9 | 1303.2 | 1298.9 |
| 130°   | 940.2  | 1044.7 | 1158.8 | 1238.2 | 1302.0 | 1342.6 | 1363.9 | 1369.7 | 1379.4 | 1377.5 | 1379.4 |
| 132.5° | 1000.6 | 1109.7 | 1225.4 | 1307.8 | 1367.0 | 1410.7 | 1428.9 | 1445.6 | 1449.0 | 1451.8 | 1449.0 |
| 135°   | 1089.2 | 1207.2 | 1323.3 | 1404.5 | 1460.7 | 1503.2 | 1526.4 | 1541.9 | 1551.6 | 1557.4 | 1551.6 |
| 137.5° | 1182.5 | 1307.0 | 1418.5 | 1490.8 | 1547.3 | 1584.1 | 1610.4 | 1626.6 | 1636.7 | 1641.3 | 1636.7 |
| 140°   | 1245.9 | 1365.9 | 1474.2 | 1549.6 | 1599.9 | 1636.7 | 1659.9 | 1679.3 | 1690.9 | 1690.9 | 1690.9 |
| 142.5° | 1306.3 | 1424.7 | 1529.9 | 1605.4 | 1649.5 | 1683.1 | 1707.9 | 1722.6 | 1735.8 | 1735.8 | 1735.8 |
| 145°   | 1391.0 | 1509.0 | 1605.8 | 1681.2 | 1718.0 | 1748.9 | 1776.0 | 1787.6 | 1795.3 | 1795.3 | 1795.3 |
| 147.5° | 1479.6 | 1584.1 | 1672.3 | 1744.7 | 1775.6 | 1812.0 | 1833.3 | 1842.6 | 1852.2 | 1848.0 | 1852.2 |
| 150°   | 1532.2 | 1629.0 | 1714.1 | 1781.8 | 1812.8 | 1847.6 | 1868.9 | 1876.6 | 1886.3 | 1880.5 | 1886.3 |
| 152.5° | 1583.3 | 1675.4 | 1752.8 | 1815.9 | 1842.2 | 1877.0 | 1901.4 | 1909.1 | 1915.7 | 1911.4 | 1915.7 |
| 155°   | 1652.2 | 1733.4 | 1805.0 | 1863.1 | 1886.3 | 1919.2 | 1942.4 | 1952.1 | 1959.8 | 1950.1 | 1959.8 |
| 157.5° | 1713.7 | 1783.7 | 1846.0 | 1899.4 | 1924.2 | 1952.4 | 1974.1 | 1986.1 | 1993.8 | 1989.6 | 1993.8 |
| 160°   | 1750.8 | 1814.7 | 1870.8 | 1921.1 | 1944.3 | 1969.5 | 1992.7 | 2006.2 | 2014.0 | 2008.2 | 2014.0 |
| 162.5° | 1781.8 | 1839.5 | 1892.5 | 1938.1 | 1958.2 | 1980.3 | 2008.2 | 2020.2 | 2027.9 | 2020.5 | 2027.9 |
| 165°   | 1826.3 | 1872.7 | 1919.2 | 1957.9 | 1975.3 | 1992.7 | 2021.7 | 2035.2 | 2041.0 | 2033.3 | 2041.0 |
| 167.5° | 1860.0 | 1895.6 | 1933.1 | 1966.4 | 1979.1 | 1996.2 | 2025.2 | 2036.4 | 2043.8 | 2034.1 | 2043.8 |
| 170°   | 1878.5 | 1909.5 | 1942.4 | 1969.5 | 1979.1 | 1994.6 | 2023.6 | 2033.3 | 2039.1 | 2029.4 | 2039.1 |
| 172.5° | 1894.0 | 1917.2 | 1943.9 | 1967.9 | 1972.9 | 1985.3 | 2012.8 | 2022.5 | 2026.7 | 2018.6 | 2026.7 |
| 175°   | 1909.5 | 1923.0 | 1942.4 | 1957.9 | 1955.9 | 1963.7 | 1986.9 | 1994.6 | 2002.4 | 1990.7 | 2002.4 |
| 177.5° | 1916.8 | 1923.0 | 1929.2 | 1938.5 | 1932.3 | 1932.3 | 1949.3 | 1954.0 | 1955.5 | 1949.3 | 1955.5 |
| 180°   | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   | 190°   | 200°   | 210°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 |
| 2.5°   | 3569.4 | 3560.9 | 3548.3 | 3548.8 | 3562.6 | 3574.5 | 3580.4 | 3586.4 | 3580.4 | 3574.5 | 3562.6 |
| 5°     | 3454.9 | 3440.6 | 3421.9 | 3417.9 | 3428.5 | 3438.6 | 3446.9 | 3455.3 | 3446.9 | 3438.6 | 3428.5 |
| 7.5°   | 3195.1 | 3180.2 | 3159.5 | 3154.2 | 3164.3 | 3171.2 | 3168.5 | 3165.8 | 3168.5 | 3171.2 | 3164.3 |
| 10°    | 2947.0 | 2943.7 | 2936.8 | 2934.0 | 2935.1 | 2935.5 | 2933.5 | 2931.5 | 2933.5 | 2935.5 | 2935.1 |
| 12.5°  | 2668.3 | 2659.7 | 2649.4 | 2651.7 | 2666.6 | 2675.8 | 2667.8 | 2659.8 | 2667.8 | 2675.8 | 2666.6 |
| 15°    | 2227.1 | 2216.9 | 2203.1 | 2210.5 | 2239.3 | 2257.6 | 2244.7 | 2231.7 | 2244.7 | 2257.6 | 2239.3 |
| 17.5°  | 1799.9 | 1798.2 | 1795.6 | 1801.6 | 1816.3 | 1827.6 | 1828.9 | 1830.3 | 1828.9 | 1827.6 | 1816.3 |
| 20°    | 1530.4 | 1531.6 | 1533.6 | 1540.8 | 1553.1 | 1562.9 | 1564.9 | 1566.9 | 1564.9 | 1562.9 | 1553.1 |
| 22.5°  | 1313.3 | 1316.5 | 1321.5 | 1326.2 | 1330.5 | 1334.6 | 1338.0 | 1341.4 | 1338.0 | 1334.6 | 1330.5 |
| 25°    | 1042.9 | 1039.2 | 1032.3 | 1032.9 | 1041.0 | 1049.7 | 1060.6 | 1071.6 | 1060.6 | 1049.7 | 1041.0 |
| 27.5°  | 846.3  | 845.4  | 844.7  | 847.7  | 854.6  | 859.8  | 859.9  | 860.1  | 859.9  | 859.8  | 854.6  |
| 30°    | 742.2  | 742.8  | 742.5  | 745.7  | 752.3  | 757.8  | 759.8  | 761.8  | 759.8  | 757.8  | 752.3  |
| 32.5°  | 654.8  | 656.8  | 658.3  | 663.2  | 671.4  | 677.2  | 675.8  | 674.4  | 675.8  | 677.2  | 671.4  |
| 35°    | 536.5  | 540.0  | 544.3  | 549.6  | 555.9  | 560.7  | 560.7  | 560.7  | 560.7  | 560.7  | 555.9  |
| 37.5°  | 429.7  | 434.9  | 441.0  | 446.3  | 450.7  | 454.2  | 454.8  | 455.3  | 454.8  | 454.2  | 450.7  |
| 40°    | 360.7  | 367.1  | 374.6  | 379.8  | 382.6  | 385.1  | 386.6  | 388.0  | 386.6  | 385.1  | 382.6  |
| 42.5°  | 295.6  | 302.4  | 309.9  | 315.1  | 318.0  | 319.1  | 315.3  | 311.4  | 315.3  | 319.1  | 318.0  |
| 45°    | 198.6  | 211.5  | 220.1  | 223.3  | 221.0  | 215.2  | 199.1  | 183.0  | 199.1  | 215.2  | 221.0  |
| 47.5°  | 93.4   | 115.7  | 138.4  | 142.8  | 128.9  | 114.0  | 96.3   | 78.6   | 96.3   | 114.0  | 128.9  |
| 50°    | 46.1   | 69.8   | 98.3   | 102.5  | 82.3   | 63.8   | 50.0   | 36.2   | 50.0   | 63.8   | 82.3   |
| 52.5°  | 27.0   | 46.7   | 71.3   | 73.1   | 52.3   | 35.0   | 28.1   | 21.2   | 28.1   | 35.0   | 52.3   |
| 55°    | 11.1   | 21.3   | 34.3   | 34.8   | 23.1   | 13.7   | 11.4   | 9.1    | 11.4   | 13.7   | 23.1   |
| 57.5°  | 4.8    | 8.5    | 13.1   | 13.4   | 9.3    | 5.9    | 4.6    | 3.4    | 4.6    | 5.9    | 9.3    |
| 60°    | 1.8    | 3.7    | 6.0    | 6.1    | 4.1    | 2.4    | 1.9    | 1.3    | 1.9    | 2.4    | 4.1    |
| 62.5°  | 0.8    | 1.8    | 2.9    | 2.9    | 1.9    | 0.9    | 0.6    | 0.3    | 0.6    | 0.9    | 1.9    |
| 65°    | 0.0    | 0.2    | 0.5    | 0.5    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    |
| 67.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 8.1    | 7.7    | 7.7    | 7.4    | 6.2    | 4.6    | 2.7    | 1.2    | 2.7    | 4.3    | 7.0    |
| 90°    | 40.6   | 38.7   | 38.7   | 36.8   | 31.0   | 23.2   | 13.5   | 5.8    | 13.5   | 21.3   | 34.8   |
| 92.5°  | 48.4   | 48.0   | 44.9   | 41.4   | 34.0   | 34.0   | 33.7   | 21.3   | 36.8   | 52.2   | 75.1   |
| 95°    | 44.5   | 44.5   | 52.2   | 65.8   | 96.7   | 98.7   | 65.8   | 60.0   | 85.1   | 119.9  | 150.9  |
| 97.5°  | 120.3  | 143.2  | 175.7  | 181.9  | 172.2  | 128.5  | 123.0  | 114.5  | 155.9  | 190.4  | 240.3  |
| 100°   | 222.5  | 251.5  | 274.7  | 228.3  | 179.9  | 178.0  | 166.4  | 162.5  | 207.0  | 239.9  | 288.3  |
| 102.5° | 347.8  | 356.7  | 276.3  | 250.0  | 238.7  | 230.6  | 212.8  | 210.5  | 255.0  | 300.3  | 340.9  |
| 105°   | 377.3  | 338.6  | 340.5  | 340.5  | 332.8  | 317.3  | 284.4  | 282.5  | 332.8  | 385.0  | 435.3  |
| 107.5° | 443.8  | 449.6  | 459.7  | 457.3  | 448.4  | 407.0  | 368.4  | 359.5  | 404.7  | 467.4  | 522.7  |
| 110°   | 532.0  | 537.8  | 541.7  | 537.8  | 524.3  | 472.1  | 425.6  | 412.1  | 452.7  | 518.5  | 578.5  |



TEST NUMBER: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   | 190°   | 200°   | 210°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 617.2  | 621.4  | 629.9  | 618.3  | 595.5  | 535.5  | 482.9  | 463.2  | 503.8  | 571.1  | 632.6  |
| 115°   | 752.6  | 752.6  | 754.5  | 748.7  | 702.3  | 640.4  | 570.7  | 541.7  | 576.5  | 638.4  | 706.1  |
| 117.5° | 885.7  | 888.0  | 880.3  | 864.8  | 811.0  | 739.0  | 660.9  | 614.4  | 641.9  | 707.3  | 777.0  |
| 120°   | 969.3  | 973.1  | 965.4  | 942.2  | 889.9  | 808.7  | 719.7  | 665.5  | 686.8  | 750.6  | 820.3  |
| 122.5° | 1055.9 | 1055.2 | 1045.9 | 1019.6 | 958.0  | 873.7  | 786.2  | 719.7  | 728.6  | 787.8  | 855.9  |
| 125°   | 1176.3 | 1174.3 | 1166.6 | 1135.6 | 1071.8 | 984.7  | 882.2  | 800.9  | 789.3  | 839.6  | 909.3  |
| 127.5° | 1290.8 | 1286.5 | 1274.5 | 1237.0 | 1171.6 | 1087.7 | 975.1  | 883.0  | 857.0  | 888.8  | 952.6  |
| 130°   | 1369.7 | 1363.9 | 1342.6 | 1302.0 | 1238.2 | 1158.8 | 1044.7 | 940.2  | 903.5  | 922.8  | 978.9  |
| 132.5° | 1445.6 | 1428.9 | 1410.7 | 1367.0 | 1307.8 | 1225.4 | 1109.7 | 1000.6 | 949.9  | 958.4  | 1002.1 |
| 135°   | 1541.9 | 1526.4 | 1503.2 | 1460.7 | 1404.5 | 1323.3 | 1207.2 | 1089.2 | 1019.6 | 1011.8 | 1037.0 |
| 137.5° | 1626.6 | 1610.4 | 1584.1 | 1547.3 | 1490.8 | 1418.5 | 1307.0 | 1182.5 | 1094.6 | 1068.7 | 1078.4 |
| 140°   | 1679.3 | 1659.9 | 1636.7 | 1599.9 | 1549.6 | 1474.2 | 1365.9 | 1245.9 | 1147.2 | 1110.5 | 1104.7 |
| 142.5° | 1722.6 | 1707.9 | 1683.1 | 1649.5 | 1605.4 | 1529.9 | 1424.7 | 1306.3 | 1201.4 | 1153.8 | 1140.3 |
| 145°   | 1787.6 | 1776.0 | 1748.9 | 1718.0 | 1681.2 | 1605.8 | 1509.0 | 1391.0 | 1286.5 | 1224.6 | 1195.6 |
| 147.5° | 1842.6 | 1833.3 | 1812.0 | 1775.6 | 1744.7 | 1672.3 | 1584.1 | 1479.6 | 1372.4 | 1295.8 | 1258.3 |
| 150°   | 1876.6 | 1868.9 | 1847.6 | 1812.8 | 1781.8 | 1714.1 | 1629.0 | 1532.2 | 1429.7 | 1348.4 | 1300.1 |
| 152.5° | 1909.1 | 1901.4 | 1877.0 | 1842.2 | 1815.9 | 1752.8 | 1675.4 | 1583.3 | 1479.2 | 1398.0 | 1348.1 |
| 155°   | 1952.1 | 1942.4 | 1919.2 | 1886.3 | 1863.1 | 1805.0 | 1733.4 | 1652.2 | 1563.2 | 1478.1 | 1422.0 |
| 157.5° | 1986.1 | 1974.1 | 1952.4 | 1924.2 | 1899.4 | 1846.0 | 1783.7 | 1713.7 | 1635.9 | 1554.7 | 1497.4 |
| 160°   | 2006.2 | 1992.7 | 1969.5 | 1944.3 | 1921.1 | 1870.8 | 1814.7 | 1750.8 | 1679.3 | 1605.8 | 1543.8 |
| 162.5° | 2020.2 | 2008.2 | 1980.3 | 1958.2 | 1938.1 | 1892.5 | 1839.5 | 1781.8 | 1718.0 | 1653.7 | 1596.5 |
| 165°   | 2035.2 | 2021.7 | 1992.7 | 1975.3 | 1957.9 | 1919.2 | 1872.7 | 1826.3 | 1772.1 | 1719.9 | 1673.5 |
| 167.5° | 2036.4 | 2025.2 | 1996.2 | 1979.1 | 1966.4 | 1933.1 | 1895.6 | 1860.0 | 1817.8 | 1776.8 | 1738.1 |
| 170°   | 2033.3 | 2023.6 | 1994.6 | 1979.1 | 1969.5 | 1942.4 | 1909.5 | 1878.5 | 1845.6 | 1810.8 | 1779.9 |
| 172.5° | 2022.5 | 2012.8 | 1985.3 | 1972.9 | 1967.9 | 1943.9 | 1917.2 | 1894.0 | 1865.8 | 1840.2 | 1815.5 |
| 175°   | 1994.6 | 1986.9 | 1963.7 | 1955.9 | 1957.9 | 1942.4 | 1923.0 | 1909.5 | 1892.1 | 1876.6 | 1863.1 |
| 177.5° | 1954.0 | 1949.3 | 1932.3 | 1932.3 | 1938.5 | 1929.2 | 1923.0 | 1916.8 | 1909.1 | 1904.5 | 1899.8 |
| 180°   | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 |



TEST NUMBER: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 230°   | 240°   | 250°   | 260°   | 270°   | 280°   | 290°   | 300°   | 310°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 | 3588.5 |
| 2.5°   | 3548.8 | 3548.3 | 3560.9 | 3569.4 | 3565.5 | 3561.6 | 3565.5 | 3569.4 | 3560.9 | 3548.3 | 3548.8 |
| 5°     | 3417.9 | 3421.9 | 3440.6 | 3454.9 | 3456.1 | 3457.2 | 3456.1 | 3454.9 | 3440.6 | 3421.9 | 3417.9 |
| 7.5°   | 3154.2 | 3159.5 | 3180.2 | 3195.1 | 3192.9 | 3190.6 | 3192.9 | 3195.1 | 3180.2 | 3159.5 | 3154.2 |
| 10°    | 2934.0 | 2936.8 | 2943.7 | 2947.0 | 2939.2 | 2931.5 | 2939.2 | 2947.0 | 2943.7 | 2936.8 | 2934.0 |
| 12.5°  | 2651.7 | 2649.4 | 2659.7 | 2668.3 | 2671.6 | 2674.8 | 2671.6 | 2668.3 | 2659.7 | 2649.4 | 2651.7 |
| 15°    | 2210.5 | 2203.1 | 2216.9 | 2227.1 | 2226.8 | 2226.6 | 2226.8 | 2227.1 | 2216.9 | 2203.1 | 2210.5 |
| 17.5°  | 1801.6 | 1795.6 | 1798.2 | 1799.9 | 1799.1 | 1798.2 | 1799.1 | 1799.9 | 1798.2 | 1795.6 | 1801.6 |
| 20°    | 1540.8 | 1533.6 | 1531.6 | 1530.4 | 1531.9 | 1533.3 | 1531.9 | 1530.4 | 1531.6 | 1533.6 | 1540.8 |
| 22.5°  | 1326.2 | 1321.5 | 1316.5 | 1313.3 | 1315.2 | 1317.1 | 1315.2 | 1313.3 | 1316.5 | 1321.5 | 1326.2 |
| 25°    | 1032.9 | 1032.3 | 1039.2 | 1042.9 | 1036.9 | 1030.8 | 1036.9 | 1042.9 | 1039.2 | 1032.3 | 1032.9 |
| 27.5°  | 847.7  | 844.7  | 845.4  | 846.3  | 847.4  | 848.6  | 847.4  | 846.3  | 845.4  | 844.7  | 847.7  |
| 30°    | 745.7  | 742.5  | 742.8  | 742.2  | 738.7  | 735.3  | 738.7  | 742.2  | 742.8  | 742.5  | 745.7  |
| 32.5°  | 663.2  | 658.3  | 656.8  | 654.8  | 651.3  | 647.9  | 651.3  | 654.8  | 656.8  | 658.3  | 663.2  |
| 35°    | 549.6  | 544.3  | 540.0  | 536.5  | 535.7  | 534.8  | 535.7  | 536.5  | 540.0  | 544.3  | 549.6  |
| 37.5°  | 446.3  | 441.0  | 434.9  | 429.7  | 427.5  | 425.3  | 427.5  | 429.7  | 434.9  | 441.0  | 446.3  |
| 40°    | 379.8  | 374.6  | 367.1  | 360.7  | 357.5  | 354.4  | 357.5  | 360.7  | 367.1  | 374.6  | 379.8  |
| 42.5°  | 315.1  | 309.9  | 302.4  | 295.6  | 290.9  | 286.1  | 290.9  | 295.6  | 302.4  | 309.9  | 315.1  |
| 45°    | 223.3  | 220.1  | 211.5  | 198.6  | 173.0  | 147.4  | 173.0  | 198.6  | 211.5  | 220.1  | 223.3  |
| 47.5°  | 142.8  | 138.4  | 115.7  | 93.4   | 72.1   | 50.8   | 72.1   | 93.4   | 115.7  | 138.4  | 142.8  |
| 50°    | 102.5  | 98.3   | 69.8   | 46.1   | 36.3   | 26.5   | 36.3   | 46.1   | 69.8   | 98.3   | 102.5  |
| 52.5°  | 73.1   | 71.3   | 46.7   | 27.0   | 21.9   | 16.7   | 21.9   | 27.0   | 46.7   | 71.3   | 73.1   |
| 55°    | 34.8   | 34.3   | 21.3   | 11.1   | 9.1    | 7.1    | 9.1    | 11.1   | 21.3   | 34.3   | 34.8   |
| 57.5°  | 13.4   | 13.1   | 8.5    | 4.8    | 3.8    | 2.7    | 3.8    | 4.8    | 8.5    | 13.1   | 13.4   |
| 60°    | 6.1    | 6.0    | 3.7    | 1.8    | 1.2    | 0.6    | 1.2    | 1.8    | 3.7    | 6.0    | 6.1    |
| 62.5°  | 2.9    | 2.9    | 1.8    | 0.8    | 0.5    | 0.1    | 0.5    | 0.8    | 1.8    | 2.9    | 2.9    |
| 65°    | 0.5    | 0.5    | 0.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2    | 0.5    | 0.5    |
| 67.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 8.9    | 11.6   | 14.3   | 15.9   | 17.4   | 16.6   | 17.4   | 15.9   | 14.3   | 11.6   | 8.9    |
| 90°    | 44.5   | 58.0   | 71.6   | 79.3   | 87.1   | 83.2   | 87.1   | 79.3   | 71.6   | 58.0   | 44.5   |
| 92.5°  | 89.4   | 112.2  | 128.8  | 142.8  | 149.0  | 148.2  | 149.0  | 142.8  | 128.8  | 112.2  | 89.4   |
| 95°    | 179.9  | 207.0  | 234.1  | 253.4  | 265.0  | 261.2  | 265.0  | 253.4  | 234.1  | 207.0  | 179.9  |
| 97.5°  | 277.4  | 313.8  | 344.0  | 362.2  | 373.8  | 381.5  | 373.8  | 362.2  | 344.0  | 313.8  | 277.4  |
| 100°   | 342.4  | 377.3  | 412.1  | 433.4  | 452.7  | 460.4  | 452.7  | 433.4  | 412.1  | 377.3  | 342.4  |
| 102.5° | 395.1  | 440.7  | 478.6  | 501.5  | 517.7  | 525.4  | 517.7  | 501.5  | 478.6  | 440.7  | 395.1  |
| 105°   | 481.7  | 530.1  | 570.7  | 599.7  | 617.2  | 623.0  | 617.2  | 599.7  | 570.7  | 530.1  | 481.7  |
| 107.5° | 568.4  | 618.3  | 655.8  | 688.0  | 709.2  | 721.6  | 709.2  | 688.0  | 655.8  | 618.3  | 568.4  |
| 110°   | 636.5  | 677.1  | 717.8  | 746.8  | 768.1  | 775.8  | 768.1  | 746.8  | 717.8  | 677.1  | 636.5  |



TEST NUMBER: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 230°   | 240°   | 250°   | 260°   | 270°   | 280°   | 290°   | 300°   | 310°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 693.8  | 739.0  | 779.7  | 808.7  | 833.1  | 843.9  | 833.1  | 808.7  | 779.7  | 739.0  | 693.8  |
| 115°   | 773.9  | 833.8  | 870.6  | 897.7  | 915.1  | 924.8  | 915.1  | 897.7  | 870.6  | 833.8  | 773.9  |
| 117.5° | 840.4  | 903.1  | 943.3  | 964.2  | 972.4  | 979.3  | 972.4  | 964.2  | 943.3  | 903.1  | 840.4  |
| 120°   | 882.2  | 940.2  | 986.7  | 1013.8 | 1023.4 | 1027.3 | 1023.4 | 1013.8 | 986.7  | 940.2  | 882.2  |
| 122.5° | 920.9  | 975.8  | 1020.7 | 1054.0 | 1069.9 | 1073.7 | 1069.9 | 1054.0 | 1020.7 | 975.8  | 920.9  |
| 125°   | 975.1  | 1027.3 | 1073.7 | 1106.6 | 1124.0 | 1133.7 | 1124.0 | 1106.6 | 1073.7 | 1027.3 | 975.1  |
| 127.5° | 1022.3 | 1078.8 | 1121.3 | 1151.1 | 1168.1 | 1175.9 | 1168.1 | 1151.1 | 1121.3 | 1078.8 | 1022.3 |
| 130°   | 1048.6 | 1106.6 | 1149.2 | 1182.1 | 1197.5 | 1205.3 | 1197.5 | 1182.1 | 1149.2 | 1106.6 | 1048.6 |
| 132.5° | 1068.7 | 1129.8 | 1173.9 | 1203.7 | 1220.8 | 1228.5 | 1220.8 | 1203.7 | 1173.9 | 1129.8 | 1068.7 |
| 135°   | 1093.1 | 1156.9 | 1203.3 | 1232.4 | 1247.8 | 1255.6 | 1247.8 | 1232.4 | 1203.3 | 1156.9 | 1093.1 |
| 137.5° | 1114.4 | 1172.4 | 1220.8 | 1251.3 | 1265.3 | 1270.3 | 1265.3 | 1251.3 | 1220.8 | 1172.4 | 1114.4 |
| 140°   | 1129.8 | 1180.1 | 1228.5 | 1257.5 | 1273.0 | 1274.9 | 1273.0 | 1257.5 | 1228.5 | 1180.1 | 1129.8 |
| 142.5° | 1150.0 | 1189.4 | 1231.6 | 1260.6 | 1276.1 | 1279.6 | 1276.1 | 1260.6 | 1231.6 | 1189.4 | 1150.0 |
| 145°   | 1185.9 | 1209.2 | 1238.2 | 1265.3 | 1278.8 | 1282.7 | 1278.8 | 1265.3 | 1238.2 | 1209.2 | 1185.9 |
| 147.5° | 1231.2 | 1238.6 | 1253.6 | 1271.4 | 1284.6 | 1287.3 | 1284.6 | 1271.4 | 1253.6 | 1238.6 | 1231.2 |
| 150°   | 1265.3 | 1263.3 | 1269.1 | 1280.7 | 1292.3 | 1290.4 | 1292.3 | 1280.7 | 1269.1 | 1263.3 | 1265.3 |
| 152.5° | 1303.9 | 1292.7 | 1292.3 | 1297.8 | 1303.2 | 1302.8 | 1303.2 | 1297.8 | 1292.3 | 1292.7 | 1303.9 |
| 155°   | 1369.7 | 1348.4 | 1336.8 | 1333.0 | 1333.0 | 1331.0 | 1333.0 | 1333.0 | 1336.8 | 1348.4 | 1369.7 |
| 157.5° | 1442.1 | 1412.3 | 1394.9 | 1385.6 | 1382.9 | 1378.6 | 1382.9 | 1385.6 | 1394.9 | 1412.3 | 1442.1 |
| 160°   | 1491.6 | 1458.7 | 1441.3 | 1425.8 | 1420.0 | 1414.2 | 1420.0 | 1425.8 | 1441.3 | 1458.7 | 1491.6 |
| 162.5° | 1538.0 | 1506.7 | 1487.7 | 1473.8 | 1468.0 | 1459.1 | 1468.0 | 1473.8 | 1487.7 | 1506.7 | 1538.0 |
| 165°   | 1613.5 | 1580.6 | 1559.3 | 1547.7 | 1540.0 | 1532.2 | 1540.0 | 1547.7 | 1559.3 | 1580.6 | 1613.5 |
| 167.5° | 1688.9 | 1653.0 | 1639.0 | 1625.9 | 1618.5 | 1604.6 | 1618.5 | 1625.9 | 1639.0 | 1653.0 | 1688.9 |
| 170°   | 1735.4 | 1702.5 | 1694.7 | 1683.1 | 1669.6 | 1654.1 | 1669.6 | 1683.1 | 1694.7 | 1702.5 | 1735.4 |
| 172.5° | 1775.6 | 1753.6 | 1745.8 | 1734.2 | 1730.0 | 1717.6 | 1730.0 | 1734.2 | 1745.8 | 1753.6 | 1775.6 |
| 175°   | 1834.0 | 1816.6 | 1816.6 | 1814.7 | 1808.9 | 1797.3 | 1808.9 | 1814.7 | 1816.6 | 1816.6 | 1834.0 |
| 177.5° | 1882.8 | 1873.5 | 1879.7 | 1879.7 | 1878.1 | 1867.3 | 1878.1 | 1879.7 | 1879.7 | 1873.5 | 1882.8 |
| 180°   | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 | 1915.3 |



TEST NUMBER: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 3588.5 | 3588.5 | 3588.5 | 3588.5 |
| 2.5°   | 3562.6 | 3574.5 | 3580.4 | 3586.4 |
| 5°     | 3428.5 | 3438.6 | 3446.9 | 3455.3 |
| 7.5°   | 3164.3 | 3171.2 | 3168.5 | 3165.8 |
| 10°    | 2935.1 | 2935.5 | 2933.5 | 2931.5 |
| 12.5°  | 2666.6 | 2675.8 | 2667.8 | 2659.8 |
| 15°    | 2239.3 | 2257.6 | 2244.7 | 2231.7 |
| 17.5°  | 1816.3 | 1827.6 | 1828.9 | 1830.3 |
| 20°    | 1553.1 | 1562.9 | 1564.9 | 1566.9 |
| 22.5°  | 1330.5 | 1334.6 | 1338.0 | 1341.4 |
| 25°    | 1041.0 | 1049.7 | 1060.6 | 1071.6 |
| 27.5°  | 854.6  | 859.8  | 859.9  | 860.1  |
| 30°    | 752.3  | 757.8  | 759.8  | 761.8  |
| 32.5°  | 671.4  | 677.2  | 675.8  | 674.4  |
| 35°    | 555.9  | 560.7  | 560.7  | 560.7  |
| 37.5°  | 450.7  | 454.2  | 454.8  | 455.3  |
| 40°    | 382.6  | 385.1  | 386.6  | 388.0  |
| 42.5°  | 318.0  | 319.1  | 315.3  | 311.4  |
| 45°    | 221.0  | 215.2  | 199.1  | 183.0  |
| 47.5°  | 128.9  | 114.0  | 96.3   | 78.6   |
| 50°    | 82.3   | 63.8   | 50.0   | 36.2   |
| 52.5°  | 52.3   | 35.0   | 28.1   | 21.2   |
| 55°    | 23.1   | 13.7   | 11.4   | 9.1    |
| 57.5°  | 9.3    | 5.9    | 4.6    | 3.4    |
| 60°    | 4.1    | 2.4    | 1.9    | 1.3    |
| 62.5°  | 1.9    | 0.9    | 0.6    | 0.3    |
| 65°    | 0.2    | 0.0    | 0.0    | 0.0    |
| 67.5°  | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 7.0    | 4.3    | 2.7    | 1.2    |
| 90°    | 34.8   | 21.3   | 13.5   | 5.8    |
| 92.5°  | 75.1   | 52.2   | 36.8   | 21.3   |
| 95°    | 150.9  | 119.9  | 85.1   | 60.0   |
| 97.5°  | 240.3  | 190.4  | 155.9  | 114.5  |
| 100°   | 288.3  | 239.9  | 207.0  | 162.5  |
| 102.5° | 340.9  | 300.3  | 255.0  | 210.5  |
| 105°   | 435.3  | 385.0  | 332.8  | 282.5  |
| 107.5° | 522.7  | 467.4  | 404.7  | 359.5  |
| 110°   | 578.5  | 518.5  | 452.7  | 412.1  |



TEST NUMBER: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 632.6  | 571.1  | 503.8  | 463.2  |
| 115°   | 706.1  | 638.4  | 576.5  | 541.7  |
| 117.5° | 777.0  | 707.3  | 641.9  | 614.4  |
| 120°   | 820.3  | 750.6  | 686.8  | 665.5  |
| 122.5° | 855.9  | 787.8  | 728.6  | 719.7  |
| 125°   | 909.3  | 839.6  | 789.3  | 800.9  |
| 127.5° | 952.6  | 888.8  | 857.0  | 883.0  |
| 130°   | 978.9  | 922.8  | 903.5  | 940.2  |
| 132.5° | 1002.1 | 958.4  | 949.9  | 1000.6 |
| 135°   | 1037.0 | 1011.8 | 1019.6 | 1089.2 |
| 137.5° | 1078.4 | 1068.7 | 1094.6 | 1182.5 |
| 140°   | 1104.7 | 1110.5 | 1147.2 | 1245.9 |
| 142.5° | 1140.3 | 1153.8 | 1201.4 | 1306.3 |
| 145°   | 1195.6 | 1224.6 | 1286.5 | 1391.0 |
| 147.5° | 1258.3 | 1295.8 | 1372.4 | 1479.6 |
| 150°   | 1300.1 | 1348.4 | 1429.7 | 1532.2 |
| 152.5° | 1348.1 | 1398.0 | 1479.2 | 1583.3 |
| 155°   | 1422.0 | 1478.1 | 1563.2 | 1652.2 |
| 157.5° | 1497.4 | 1554.7 | 1635.9 | 1713.7 |
| 160°   | 1543.8 | 1605.8 | 1679.3 | 1750.8 |
| 162.5° | 1596.5 | 1653.7 | 1718.0 | 1781.8 |
| 165°   | 1673.5 | 1719.9 | 1772.1 | 1826.3 |
| 167.5° | 1738.1 | 1776.8 | 1817.8 | 1860.0 |
| 170°   | 1779.9 | 1810.8 | 1845.6 | 1878.5 |
| 172.5° | 1815.5 | 1840.2 | 1865.8 | 1894.0 |
| 175°   | 1863.1 | 1876.6 | 1892.1 | 1909.5 |
| 177.5° | 1899.8 | 1904.5 | 1909.1 | 1916.8 |
| 180°   | 1915.3 | 1915.3 | 1915.3 | 1915.3 |



TEST NUMBER: P1427639

CATALOG NUMBER: SQ2W-BBN-K-150U-050D-L930-UNV-STD-W-WM-4

**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 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H              | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H             | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |