

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: P1427983

Luminaire Tested: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427983  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

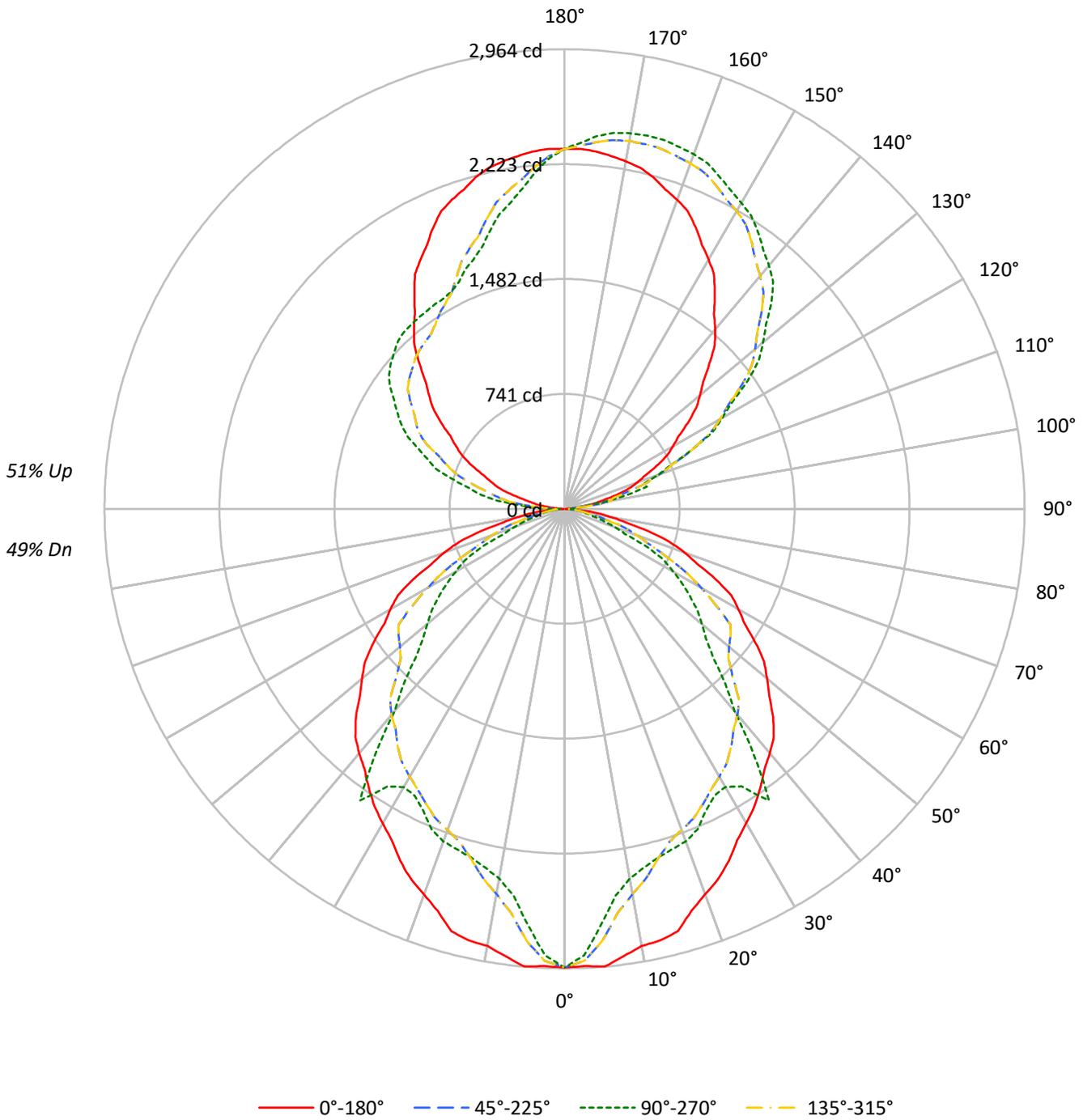
Lumens per Lamp: N/A  
Luminaire Lumens: 13326.2 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 104.3  
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: P1427983

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1427983

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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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 55 | 55 | 55 | 49 |
| 1   | 98  | 94  | 90  | 86  | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 57 | 49 | 48 | 47 | 42 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 70 | 66 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 35 |
| 3   | 81  | 72  | 65  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 47 | 44 | 41 | 39 | 36 | 34 | 30 |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 35 | 32 | 29 | 26 |
| 5   | 68  | 57  | 49  | 43  | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 30 | 31 | 28 | 26 | 22 |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | 20 |
| 7   | 58  | 46  | 38  | 33  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 | 16 |
| 9   | 50  | 38  | 31  | 26  | 46 | 36 | 29 | 24 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 47759 | 47759 | 47759 | 47759 |
| 5°  | 48033 | 43654 | 48033 | 43654 |
| 10° | 46928 | 39683 | 46928 | 39683 |
| 15° | 47138 | 38906 | 47138 | 38906 |
| 20° | 45456 | 39219 | 45456 | 39219 |
| 25° | 44624 | 38307 | 44624 | 38307 |
| 30° | 43657 | 38620 | 43657 | 38620 |
| 35° | 43325 | 45266 | 43325 | 45266 |
| 40° | 43363 | 35889 | 43363 | 35889 |
| 45° | 43379 | 30912 | 43379 | 30912 |
| 50° | 42771 | 28984 | 42771 | 28984 |
| 55° | 42226 | 27808 | 42226 | 27808 |
| 60° | 41807 | 26085 | 41807 | 26085 |
| 65° | 41073 | 22689 | 41073 | 22689 |
| 70° | 38794 | 16211 | 38794 | 16211 |
| 75° | 34591 | 12289 | 34591 | 12289 |
| 80° | 28265 | 11511 | 28265 | 11511 |
| 85° | 17728 | 7818  | 17728 | 7818  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 43379 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 260.3   | 2.0       |
| 10°-20°   | 684.6   | 5.1       |
| 20°-30°   | 1003.8  | 7.5       |
| 30°-40°   | 1215.4  | 9.1       |
| 40°-50°   | 1195.2  | 9.0       |
| 50°-60°   | 1039.6  | 7.8       |
| 60°-70°   | 723.0   | 5.4       |
| 70°-80°   | 342.9   | 2.6       |
| 80°-90°   | 85.2    | 0.6       |
| 90°-100°  | 184.7   | 1.4       |
| 100°-110° | 538.6   | 4.0       |
| 110°-120° | 879.0   | 6.6       |
| 120°-130° | 1115.4  | 8.4       |
| 130°-140° | 1193.5  | 9.0       |
| 140°-150° | 1114.5  | 8.4       |
| 150°-160° | 917.1   | 6.9       |
| 160°-170° | 615.0   | 4.6       |
| 170°-180° | 218.4   | 1.6       |
| 0°-30°    | 1948.7  | 14.6      |
| 0°-40°    | 3164.1  | 23.7      |
| 0°-60°    | 5398.9  | 40.5      |
| 0°-90°    | 6550.1  | 49.2      |
| 90°-120°  | 1602.3  | 12.0      |
| 90°-150°  | 5025.7  | 37.7      |
| 90°-180°  | 6776.0  | 50.8      |
| 0°-180°   | 13326.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2958 | 2958 | 2958 | 2958 | 2958 |      |
| 5°   | 2964 | 2694 | 2964 | 2694 | 2964 | 279  |
| 15°  | 2820 | 2328 | 2820 | 2328 | 2820 | 786  |
| 25°  | 2505 | 2150 | 2505 | 2150 | 2505 | 1152 |
| 35°  | 2198 | 2297 | 2198 | 2297 | 2198 | 1377 |
| 45°  | 1900 | 1354 | 1900 | 1354 | 1900 | 1460 |
| 55°  | 1500 | 988  | 1500 | 988  | 1500 | 1340 |
| 65°  | 1075 | 594  | 1075 | 594  | 1075 | 1056 |
| 75°  | 554  | 197  | 554  | 197  | 554  | 588  |
| 85°  | 96   | 42   | 96   | 42   | 96   | 128  |
| 90°  | 7    | 52   | 7    | 101  | 7    | 8    |
| 95°  | 73   | 54   | 73   | 316  | 73   | 88   |
| 105° | 342  | 548  | 342  | 755  | 342  | 364  |
| 115° | 656  | 910  | 656  | 1120 | 656  | 647  |
| 125° | 970  | 1442 | 970  | 1374 | 970  | 868  |
| 135° | 1320 | 1887 | 1320 | 1521 | 1320 | 1020 |
| 145° | 1686 | 2175 | 1686 | 1554 | 1686 | 1055 |
| 155° | 2002 | 2363 | 2002 | 1613 | 2002 | 920  |
| 165° | 2213 | 2464 | 2213 | 1857 | 2213 | 623  |
| 175° | 2314 | 2412 | 2314 | 2178 | 2314 | 220  |
| 180° | 2321 | 2321 | 2321 | 2321 | 2321 |      |



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CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 |
| 2.5°   | 2951.3 | 2965.3 | 2979.3 | 2959.5 | 2928.5 | 2907.0 | 2895.0 | 2885.5 | 2883.5 | 2881.5 | 2883.5 |
| 5°     | 2963.7 | 2962.4 | 2961.2 | 2902.7 | 2825.1 | 2767.0 | 2728.2 | 2698.5 | 2696.0 | 2693.5 | 2696.0 |
| 7.5°   | 2909.6 | 2870.9 | 2832.1 | 2753.5 | 2661.7 | 2594.4 | 2551.6 | 2519.0 | 2517.0 | 2515.0 | 2517.0 |
| 10°    | 2862.4 | 2803.6 | 2744.8 | 2656.0 | 2557.1 | 2488.3 | 2449.6 | 2420.5 | 2420.5 | 2420.5 | 2420.5 |
| 12.5°  | 2851.1 | 2758.3 | 2665.5 | 2568.1 | 2469.3 | 2405.5 | 2376.8 | 2356.7 | 2362.7 | 2368.7 | 2362.7 |
| 15°    | 2820.1 | 2680.0 | 2539.9 | 2441.1 | 2356.1 | 2309.8 | 2302.3 | 2300.1 | 2313.8 | 2327.6 | 2313.8 |
| 17.5°  | 2717.7 | 2566.8 | 2416.0 | 2329.1 | 2263.6 | 2238.8 | 2254.8 | 2270.8 | 2286.8 | 2302.8 | 2286.8 |
| 20°    | 2645.6 | 2496.8 | 2347.9 | 2267.6 | 2210.0 | 2196.3 | 2226.3 | 2252.5 | 2267.6 | 2282.6 | 2267.6 |
| 22.5°  | 2584.8 | 2434.0 | 2283.1 | 2212.0 | 2167.5 | 2161.7 | 2194.8 | 2221.5 | 2229.5 | 2237.5 | 2229.5 |
| 25°    | 2504.9 | 2334.8 | 2164.7 | 2112.8 | 2100.2 | 2108.4 | 2137.2 | 2157.8 | 2154.0 | 2150.3 | 2154.0 |
| 27.5°  | 2409.2 | 2231.6 | 2054.0 | 2020.6 | 2035.4 | 2051.5 | 2069.0 | 2082.7 | 2085.0 | 2087.2 | 2085.0 |
| 30°    | 2341.7 | 2164.0 | 1986.4 | 1959.8 | 1983.6 | 2004.2 | 2021.8 | 2039.0 | 2055.2 | 2071.5 | 2055.2 |
| 32.5°  | 2276.4 | 2092.7 | 1909.1 | 1890.0 | 1925.8 | 1964.5 | 2006.0 | 2046.5 | 2083.7 | 2121.0 | 2083.7 |
| 35°    | 2198.1 | 2006.7 | 1815.4 | 1800.3 | 1844.1 | 1900.4 | 1969.2 | 2051.5 | 2174.1 | 2296.6 | 2174.1 |
| 37.5°  | 2115.9 | 1910.8 | 1705.7 | 1698.8 | 1758.1 | 1817.4 | 1876.7 | 1930.9 | 1970.0 | 2009.0 | 1970.0 |
| 40°    | 2057.4 | 1842.3 | 1627.1 | 1626.8 | 1698.1 | 1771.9 | 1848.2 | 1882.9 | 1792.8 | 1702.8 | 1792.8 |
| 42.5°  | 1994.4 | 1779.2 | 1564.1 | 1557.7 | 1621.0 | 1702.3 | 1801.7 | 1838.1 | 1686.0 | 1533.9 | 1686.0 |
| 45°    | 1899.8 | 1675.9 | 1452.0 | 1443.8 | 1507.6 | 1552.7 | 1578.9 | 1571.4 | 1462.6 | 1353.8 | 1462.6 |
| 47.5°  | 1788.3 | 1574.9 | 1361.5 | 1359.8 | 1428.6 | 1433.6 | 1374.8 | 1320.1 | 1277.5 | 1235.0 | 1277.5 |
| 50°    | 1702.8 | 1501.4 | 1300.0 | 1308.7 | 1387.6 | 1380.0 | 1286.2 | 1209.0 | 1181.5 | 1153.9 | 1181.5 |
| 52.5°  | 1619.5 | 1428.1 | 1236.7 | 1260.0 | 1354.8 | 1339.8 | 1214.9 | 1116.7 | 1098.2 | 1079.6 | 1098.2 |
| 55°    | 1500.1 | 1316.3 | 1132.4 | 1184.9 | 1316.3 | 1296.2 | 1124.9 | 995.4  | 991.6  | 987.9  | 991.6  |
| 57.5°  | 1373.5 | 1199.6 | 1025.7 | 1062.2 | 1168.8 | 1147.8 | 999.2  | 889.3  | 895.8  | 902.3  | 895.8  |
| 60°    | 1294.7 | 1125.8 | 956.9  | 961.6  | 1024.2 | 1004.2 | 901.6  | 822.8  | 815.3  | 807.8  | 815.3  |
| 62.5°  | 1211.4 | 1050.5 | 889.6  | 866.3  | 888.8  | 865.3  | 795.8  | 741.7  | 734.2  | 726.7  | 734.2  |
| 65°    | 1075.1 | 928.8  | 782.4  | 738.3  | 728.3  | 694.6  | 637.0  | 593.9  | 593.9  | 593.9  | 593.9  |
| 67.5°  | 925.4  | 797.8  | 670.2  | 620.9  | 597.6  | 564.1  | 520.3  | 480.0  | 449.9  | 419.9  | 449.9  |
| 70°    | 821.8  | 709.3  | 596.7  | 545.1  | 513.8  | 473.8  | 425.0  | 383.4  | 363.4  | 343.4  | 363.4  |
| 72.5°  | 711.5  | 614.9  | 518.4  | 465.5  | 427.2  | 388.2  | 348.4  | 312.8  | 289.8  | 266.8  | 289.8  |
| 75°    | 554.5  | 476.9  | 399.3  | 348.1  | 305.5  | 266.1  | 229.9  | 202.0  | 199.5  | 197.0  | 199.5  |
| 77.5°  | 400.8  | 344.2  | 287.7  | 246.2  | 209.6  | 182.3  | 164.0  | 150.4  | 150.6  | 150.9  | 150.6  |
| 80°    | 304.0  | 261.4  | 218.9  | 180.1  | 142.6  | 123.2  | 122.0  | 121.3  | 122.6  | 123.8  | 122.6  |
| 82.5°  | 213.9  | 182.4  | 150.9  | 126.1  | 103.6  | 93.2   | 94.9   | 96.3   | 96.6   | 96.8   | 96.6   |
| 85°    | 95.7   | 80.7   | 65.7   | 60.0   | 57.5   | 53.8   | 48.8   | 44.7   | 43.5   | 42.2   | 43.5   |
| 87.5°  | 21.7   | 22.5   | 23.9   | 23.3   | 21.7   | 20.6   | 20.6   | 21.1   | 21.6   | 21.6   | 21.6   |
| 90°    | 7.0    | 16.4   | 28.1   | 37.5   | 44.5   | 46.9   | 46.9   | 49.2   | 51.6   | 51.6   | 51.6   |
| 92.5°  | 25.8   | 40.8   | 41.3   | 41.3   | 50.2   | 54.4   | 58.1   | 58.6   | 60.9   | 60.9   | 60.9   |
| 95°    | 72.7   | 79.7   | 119.6  | 117.2  | 79.7   | 63.3   | 53.9   | 53.9   | 53.9   | 53.9   | 53.9   |
| 97.5°  | 138.8  | 149.1  | 155.7  | 208.6  | 220.4  | 212.9  | 173.5  | 145.8  | 130.3  | 123.3  | 130.3  |
| 100°   | 196.9  | 201.6  | 215.7  | 218.0  | 276.6  | 332.9  | 304.7  | 269.6  | 257.9  | 250.8  | 257.9  |
| 102.5° | 255.0  | 257.9  | 279.4  | 289.3  | 302.9  | 334.7  | 432.3  | 421.5  | 413.5  | 412.1  | 413.5  |
| 105°   | 342.3  | 344.6  | 384.4  | 403.2  | 412.6  | 412.6  | 410.2  | 457.1  | 532.1  | 548.5  | 532.1  |
| 107.5° | 435.5  | 446.3  | 493.2  | 543.4  | 554.2  | 557.0  | 544.8  | 537.8  | 534.9  | 536.8  | 534.9  |
| 110°   | 499.3  | 515.7  | 572.0  | 635.3  | 651.7  | 656.4  | 651.7  | 644.7  | 640.0  | 640.0  | 640.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 561.2  | 585.1  | 648.9  | 721.5  | 749.2  | 763.3  | 753.0  | 747.8  | 743.1  | 746.9  | 743.1  |
| 115°   | 656.4  | 691.5  | 775.9  | 850.9  | 907.2  | 914.2  | 911.9  | 911.9  | 909.5  | 909.5  | 909.5  |
| 117.5° | 744.5  | 800.8  | 895.5  | 982.7  | 1047.9 | 1066.6 | 1076.0 | 1073.2 | 1070.4 | 1075.0 | 1070.4 |
| 120°   | 806.4  | 872.0  | 979.9  | 1078.3 | 1141.6 | 1169.7 | 1179.1 | 1174.4 | 1179.1 | 1174.4 | 1179.1 |
| 122.5° | 872.0  | 952.7  | 1058.6 | 1160.8 | 1235.4 | 1267.3 | 1278.5 | 1279.5 | 1280.4 | 1277.6 | 1280.4 |
| 125°   | 970.5  | 1068.9 | 1193.2 | 1298.7 | 1376.0 | 1413.5 | 1422.9 | 1425.3 | 1430.0 | 1441.7 | 1430.0 |
| 127.5° | 1069.9 | 1181.5 | 1317.9 | 1419.6 | 1498.9 | 1544.3 | 1558.9 | 1564.0 | 1573.9 | 1579.0 | 1573.9 |
| 130°   | 1139.3 | 1265.9 | 1404.2 | 1500.3 | 1577.6 | 1626.9 | 1652.7 | 1659.7 | 1671.4 | 1669.1 | 1671.4 |
| 132.5° | 1212.4 | 1344.6 | 1484.8 | 1584.7 | 1656.4 | 1709.4 | 1731.4 | 1751.6 | 1755.8 | 1759.1 | 1755.8 |
| 135°   | 1319.8 | 1462.8 | 1603.4 | 1701.9 | 1769.9 | 1821.4 | 1849.6 | 1868.3 | 1880.0 | 1887.1 | 1880.0 |
| 137.5° | 1432.8 | 1583.7 | 1718.8 | 1806.4 | 1874.9 | 1919.4 | 1951.3 | 1971.0 | 1983.2 | 1988.8 | 1983.2 |
| 140°   | 1509.7 | 1655.0 | 1786.3 | 1877.7 | 1938.6 | 1983.2 | 2011.3 | 2034.8 | 2048.8 | 2048.8 | 2048.8 |
| 142.5° | 1582.8 | 1726.3 | 1853.8 | 1945.2 | 1998.7 | 2039.4 | 2069.4 | 2087.3 | 2103.2 | 2103.2 | 2103.2 |
| 145°   | 1685.5 | 1828.5 | 1945.7 | 2037.1 | 2081.6 | 2119.1 | 2152.0 | 2166.0 | 2175.4 | 2175.4 | 2175.4 |
| 147.5° | 1792.8 | 1919.4 | 2026.3 | 2114.0 | 2151.5 | 2195.6 | 2221.3 | 2232.6 | 2244.3 | 2239.2 | 2244.3 |
| 150°   | 1856.6 | 1973.8 | 2076.9 | 2159.0 | 2196.5 | 2238.7 | 2264.5 | 2273.9 | 2285.6 | 2278.5 | 2285.6 |
| 152.5° | 1918.5 | 2030.1 | 2123.8 | 2200.3 | 2232.1 | 2274.3 | 2303.9 | 2313.2 | 2321.2 | 2316.1 | 2321.2 |
| 155°   | 2001.9 | 2100.4 | 2187.1 | 2257.5 | 2285.6 | 2325.4 | 2353.6 | 2365.3 | 2374.7 | 2362.9 | 2374.7 |
| 157.5° | 2076.5 | 2161.3 | 2236.8 | 2301.5 | 2331.5 | 2365.8 | 2392.0 | 2406.5 | 2415.9 | 2410.8 | 2415.9 |
| 160°   | 2121.5 | 2198.8 | 2266.8 | 2327.8 | 2355.9 | 2386.4 | 2414.5 | 2430.9 | 2440.3 | 2433.3 | 2440.3 |
| 162.5° | 2159.0 | 2228.9 | 2293.1 | 2348.4 | 2372.8 | 2399.5 | 2433.3 | 2447.8 | 2457.2 | 2448.3 | 2457.2 |
| 165°   | 2212.9 | 2269.2 | 2325.4 | 2372.3 | 2393.4 | 2414.5 | 2449.7 | 2466.1 | 2473.1 | 2463.7 | 2473.1 |
| 167.5° | 2253.7 | 2296.8 | 2342.3 | 2382.6 | 2398.1 | 2418.7 | 2453.9 | 2467.5 | 2476.4 | 2464.7 | 2476.4 |
| 170°   | 2276.2 | 2313.7 | 2353.6 | 2386.4 | 2398.1 | 2416.9 | 2452.0 | 2463.7 | 2470.8 | 2459.1 | 2470.8 |
| 172.5° | 2295.0 | 2323.1 | 2355.4 | 2384.5 | 2390.6 | 2405.6 | 2438.9 | 2450.6 | 2455.8 | 2445.9 | 2455.8 |
| 175°   | 2313.7 | 2330.1 | 2353.6 | 2372.3 | 2370.0 | 2379.3 | 2407.5 | 2416.9 | 2426.2 | 2412.2 | 2426.2 |
| 177.5° | 2322.6 | 2330.1 | 2337.6 | 2348.9 | 2341.4 | 2341.4 | 2362.0 | 2367.6 | 2369.5 | 2362.0 | 2369.5 |
| 180°   | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 |



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CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   | 190°   | 200°   | 210°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 |
| 2.5°   | 2885.5 | 2895.0 | 2907.0 | 2928.5 | 2959.5 | 2979.3 | 2965.3 | 2951.3 | 2965.3 | 2979.3 | 2959.5 |
| 5°     | 2698.5 | 2728.2 | 2767.0 | 2825.1 | 2902.7 | 2961.2 | 2962.4 | 2963.7 | 2962.4 | 2961.2 | 2902.7 |
| 7.5°   | 2519.0 | 2551.6 | 2594.4 | 2661.7 | 2753.5 | 2832.1 | 2870.9 | 2909.6 | 2870.9 | 2832.1 | 2753.5 |
| 10°    | 2420.5 | 2449.6 | 2488.3 | 2557.1 | 2656.0 | 2744.8 | 2803.6 | 2862.4 | 2803.6 | 2744.8 | 2656.0 |
| 12.5°  | 2356.7 | 2376.8 | 2405.5 | 2469.3 | 2568.1 | 2665.5 | 2758.3 | 2851.1 | 2758.3 | 2665.5 | 2568.1 |
| 15°    | 2300.1 | 2302.3 | 2309.8 | 2356.1 | 2441.1 | 2539.9 | 2680.0 | 2820.1 | 2680.0 | 2539.9 | 2441.1 |
| 17.5°  | 2270.8 | 2254.8 | 2238.8 | 2263.6 | 2329.1 | 2416.0 | 2566.8 | 2717.7 | 2566.8 | 2416.0 | 2329.1 |
| 20°    | 2252.5 | 2226.3 | 2196.3 | 2210.0 | 2267.6 | 2347.9 | 2496.8 | 2645.6 | 2496.8 | 2347.9 | 2267.6 |
| 22.5°  | 2221.5 | 2194.8 | 2161.7 | 2167.5 | 2212.0 | 2283.1 | 2434.0 | 2584.8 | 2434.0 | 2283.1 | 2212.0 |
| 25°    | 2157.8 | 2137.2 | 2108.4 | 2100.2 | 2112.8 | 2164.7 | 2334.8 | 2504.9 | 2334.8 | 2164.7 | 2112.8 |
| 27.5°  | 2082.7 | 2069.0 | 2051.5 | 2035.4 | 2020.6 | 2054.0 | 2231.6 | 2409.2 | 2231.6 | 2054.0 | 2020.6 |
| 30°    | 2039.0 | 2021.8 | 2004.2 | 1983.6 | 1959.8 | 1986.4 | 2164.0 | 2341.7 | 2164.0 | 1986.4 | 1959.8 |
| 32.5°  | 2046.5 | 2006.0 | 1964.5 | 1925.8 | 1890.0 | 1909.1 | 2092.7 | 2276.4 | 2092.7 | 1909.1 | 1890.0 |
| 35°    | 2051.5 | 1969.2 | 1900.4 | 1844.1 | 1800.3 | 1815.4 | 2006.7 | 2198.1 | 2006.7 | 1815.4 | 1800.3 |
| 37.5°  | 1930.9 | 1876.7 | 1817.4 | 1758.1 | 1698.8 | 1705.7 | 1910.8 | 2115.9 | 1910.8 | 1705.7 | 1698.8 |
| 40°    | 1882.9 | 1848.2 | 1771.9 | 1698.1 | 1626.8 | 1627.1 | 1842.3 | 2057.4 | 1842.3 | 1627.1 | 1626.8 |
| 42.5°  | 1838.1 | 1801.7 | 1702.3 | 1621.0 | 1557.7 | 1564.1 | 1779.2 | 1994.4 | 1779.2 | 1564.1 | 1557.7 |
| 45°    | 1571.4 | 1578.9 | 1552.7 | 1507.6 | 1443.8 | 1452.0 | 1675.9 | 1899.8 | 1675.9 | 1452.0 | 1443.8 |
| 47.5°  | 1320.1 | 1374.8 | 1433.6 | 1428.6 | 1359.8 | 1361.5 | 1574.9 | 1788.3 | 1574.9 | 1361.5 | 1359.8 |
| 50°    | 1209.0 | 1286.2 | 1380.0 | 1387.6 | 1308.7 | 1300.0 | 1501.4 | 1702.8 | 1501.4 | 1300.0 | 1308.7 |
| 52.5°  | 1116.7 | 1214.9 | 1339.8 | 1354.8 | 1260.0 | 1236.7 | 1428.1 | 1619.5 | 1428.1 | 1236.7 | 1260.0 |
| 55°    | 995.4  | 1124.9 | 1296.2 | 1316.3 | 1184.9 | 1132.4 | 1316.3 | 1500.1 | 1316.3 | 1132.4 | 1184.9 |
| 57.5°  | 889.3  | 999.2  | 1147.8 | 1168.8 | 1062.2 | 1025.7 | 1199.6 | 1373.5 | 1199.6 | 1025.7 | 1062.2 |
| 60°    | 822.8  | 901.6  | 1004.2 | 1024.2 | 961.6  | 956.9  | 1125.8 | 1294.7 | 1125.8 | 956.9  | 961.6  |
| 62.5°  | 741.7  | 795.8  | 865.3  | 888.8  | 866.3  | 889.6  | 1050.5 | 1211.4 | 1050.5 | 889.6  | 866.3  |
| 65°    | 593.9  | 637.0  | 694.6  | 728.3  | 738.3  | 782.4  | 928.8  | 1075.1 | 928.8  | 782.4  | 738.3  |
| 67.5°  | 480.0  | 520.3  | 564.1  | 597.6  | 620.9  | 670.2  | 797.8  | 925.4  | 797.8  | 670.2  | 620.9  |
| 70°    | 383.4  | 425.0  | 473.8  | 513.8  | 545.1  | 596.7  | 709.3  | 821.8  | 709.3  | 596.7  | 545.1  |
| 72.5°  | 312.8  | 348.4  | 388.2  | 427.2  | 465.5  | 518.4  | 614.9  | 711.5  | 614.9  | 518.4  | 465.5  |
| 75°    | 202.0  | 229.9  | 266.1  | 305.5  | 348.1  | 399.3  | 476.9  | 554.5  | 476.9  | 399.3  | 348.1  |
| 77.5°  | 150.4  | 164.0  | 182.3  | 209.6  | 246.2  | 287.7  | 344.2  | 400.8  | 344.2  | 287.7  | 246.2  |
| 80°    | 121.3  | 122.0  | 123.2  | 142.6  | 180.1  | 218.9  | 261.4  | 304.0  | 261.4  | 218.9  | 180.1  |
| 82.5°  | 96.3   | 94.9   | 93.2   | 103.6  | 126.1  | 150.9  | 182.4  | 213.9  | 182.4  | 150.9  | 126.1  |
| 85°    | 44.7   | 48.8   | 53.8   | 57.5   | 60.0   | 65.7   | 80.7   | 95.7   | 80.7   | 65.7   | 60.0   |
| 87.5°  | 21.1   | 20.6   | 20.6   | 21.7   | 23.3   | 23.9   | 22.5   | 21.7   | 22.5   | 23.4   | 24.2   |
| 90°    | 49.2   | 46.9   | 46.9   | 44.5   | 37.5   | 28.1   | 16.4   | 7.0    | 16.4   | 25.8   | 42.2   |
| 92.5°  | 58.6   | 58.1   | 54.4   | 50.2   | 41.3   | 41.3   | 40.8   | 25.8   | 44.5   | 63.3   | 91.0   |
| 95°    | 53.9   | 53.9   | 63.3   | 79.7   | 117.2  | 119.6  | 79.7   | 72.7   | 103.1  | 145.3  | 182.8  |
| 97.5°  | 145.8  | 173.5  | 212.9  | 220.4  | 208.6  | 155.7  | 149.1  | 138.8  | 188.9  | 230.7  | 291.1  |
| 100°   | 269.6  | 304.7  | 332.9  | 276.6  | 218.0  | 215.7  | 201.6  | 196.9  | 250.8  | 290.7  | 349.3  |
| 102.5° | 421.5  | 432.3  | 334.7  | 302.9  | 289.3  | 279.4  | 257.9  | 255.0  | 309.0  | 363.8  | 413.0  |
| 105°   | 457.1  | 410.2  | 412.6  | 412.6  | 403.2  | 384.4  | 344.6  | 342.3  | 403.2  | 466.5  | 527.4  |
| 107.5° | 537.8  | 544.8  | 557.0  | 554.2  | 543.4  | 493.2  | 446.3  | 435.5  | 490.4  | 566.4  | 633.4  |
| 110°   | 644.7  | 651.7  | 656.4  | 651.7  | 635.3  | 572.0  | 515.7  | 499.3  | 548.5  | 628.2  | 700.9  |



TEST NUMBER: P1427983

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   | 190°   | 200°   | 210°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 747.8  | 753.0  | 763.3  | 749.2  | 721.5  | 648.9  | 585.1  | 561.2  | 610.4  | 692.0  | 766.5  |
| 115°   | 911.9  | 911.9  | 914.2  | 907.2  | 850.9  | 775.9  | 691.5  | 656.4  | 698.6  | 773.6  | 855.6  |
| 117.5° | 1073.2 | 1076.0 | 1066.6 | 1047.9 | 982.7  | 895.5  | 800.8  | 744.5  | 777.8  | 857.0  | 941.4  |
| 120°   | 1174.4 | 1179.1 | 1169.7 | 1141.6 | 1078.3 | 979.9  | 872.0  | 806.4  | 832.2  | 909.5  | 993.9  |
| 122.5° | 1279.5 | 1278.5 | 1267.3 | 1235.4 | 1160.8 | 1058.6 | 952.7  | 872.0  | 882.8  | 954.6  | 1037.1 |
| 125°   | 1425.3 | 1422.9 | 1413.5 | 1376.0 | 1298.7 | 1193.2 | 1068.9 | 970.5  | 956.4  | 1017.4 | 1101.8 |
| 127.5° | 1564.0 | 1558.9 | 1544.3 | 1498.9 | 1419.6 | 1317.9 | 1181.5 | 1069.9 | 1038.5 | 1076.9 | 1154.3 |
| 130°   | 1659.7 | 1652.7 | 1626.9 | 1577.6 | 1500.3 | 1404.2 | 1265.9 | 1139.3 | 1094.7 | 1118.2 | 1186.2 |
| 132.5° | 1751.6 | 1731.4 | 1709.4 | 1656.4 | 1584.7 | 1484.8 | 1344.6 | 1212.4 | 1151.0 | 1161.3 | 1214.3 |
| 135°   | 1868.3 | 1849.6 | 1821.4 | 1769.9 | 1701.9 | 1603.4 | 1462.8 | 1319.8 | 1235.4 | 1226.0 | 1256.5 |
| 137.5° | 1971.0 | 1951.3 | 1919.4 | 1874.9 | 1806.4 | 1718.8 | 1583.7 | 1432.8 | 1326.3 | 1294.9 | 1306.6 |
| 140°   | 2034.8 | 2011.3 | 1983.2 | 1938.6 | 1877.7 | 1786.3 | 1655.0 | 1509.7 | 1390.1 | 1345.6 | 1338.5 |
| 142.5° | 2087.3 | 2069.4 | 2039.4 | 1998.7 | 1945.2 | 1853.8 | 1726.3 | 1582.8 | 1455.7 | 1398.1 | 1381.7 |
| 145°   | 2166.0 | 2152.0 | 2119.1 | 2081.6 | 2037.1 | 1945.7 | 1828.5 | 1685.5 | 1558.9 | 1483.9 | 1448.7 |
| 147.5° | 2232.6 | 2221.3 | 2195.6 | 2151.5 | 2114.0 | 2026.3 | 1919.4 | 1792.8 | 1663.0 | 1570.1 | 1524.7 |
| 150°   | 2273.9 | 2264.5 | 2238.7 | 2196.5 | 2159.0 | 2076.9 | 1973.8 | 1856.6 | 1732.4 | 1633.9 | 1575.3 |
| 152.5° | 2313.2 | 2303.9 | 2274.3 | 2232.1 | 2200.3 | 2123.8 | 2030.1 | 1918.5 | 1792.4 | 1693.9 | 1633.4 |
| 155°   | 2365.3 | 2353.6 | 2325.4 | 2285.6 | 2257.5 | 2187.1 | 2100.4 | 2001.9 | 1894.1 | 1791.0 | 1723.0 |
| 157.5° | 2406.5 | 2392.0 | 2365.8 | 2331.5 | 2301.5 | 2236.8 | 2161.3 | 2076.5 | 1982.2 | 1883.8 | 1814.4 |
| 160°   | 2430.9 | 2414.5 | 2386.4 | 2355.9 | 2327.8 | 2266.8 | 2198.8 | 2121.5 | 2034.8 | 1945.7 | 1870.7 |
| 162.5° | 2447.8 | 2433.3 | 2399.5 | 2372.8 | 2348.4 | 2293.1 | 2228.9 | 2159.0 | 2081.6 | 2003.8 | 1934.4 |
| 165°   | 2466.1 | 2449.7 | 2414.5 | 2393.4 | 2372.3 | 2325.4 | 2269.2 | 2212.9 | 2147.3 | 2084.0 | 2027.7 |
| 167.5° | 2467.5 | 2453.9 | 2418.7 | 2398.1 | 2382.6 | 2342.3 | 2296.8 | 2253.7 | 2202.6 | 2152.9 | 2106.0 |
| 170°   | 2463.7 | 2452.0 | 2416.9 | 2398.1 | 2386.4 | 2353.6 | 2313.7 | 2276.2 | 2236.4 | 2194.2 | 2156.7 |
| 172.5° | 2450.6 | 2438.9 | 2405.6 | 2390.6 | 2384.5 | 2355.4 | 2323.1 | 2295.0 | 2260.7 | 2229.8 | 2199.8 |
| 175°   | 2416.9 | 2407.5 | 2379.3 | 2370.0 | 2372.3 | 2353.6 | 2330.1 | 2313.7 | 2292.6 | 2273.9 | 2257.5 |
| 177.5° | 2367.6 | 2362.0 | 2341.4 | 2341.4 | 2348.9 | 2337.6 | 2330.1 | 2322.6 | 2313.2 | 2307.6 | 2302.0 |
| 180°   | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 |



TEST NUMBER: P1427983

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 230°   | 240°   | 250°   | 260°   | 270°   | 280°   | 290°   | 300°   | 310°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 | 2958.0 |
| 2.5°   | 2928.5 | 2907.0 | 2895.0 | 2885.5 | 2883.5 | 2881.5 | 2883.5 | 2885.5 | 2895.0 | 2907.0 | 2928.5 |
| 5°     | 2825.1 | 2767.0 | 2728.2 | 2698.5 | 2696.0 | 2693.5 | 2696.0 | 2698.5 | 2728.2 | 2767.0 | 2825.1 |
| 7.5°   | 2661.7 | 2594.4 | 2551.6 | 2519.0 | 2517.0 | 2515.0 | 2517.0 | 2519.0 | 2551.6 | 2594.4 | 2661.7 |
| 10°    | 2557.1 | 2488.3 | 2449.6 | 2420.5 | 2420.5 | 2420.5 | 2420.5 | 2420.5 | 2449.6 | 2488.3 | 2557.1 |
| 12.5°  | 2469.3 | 2405.5 | 2376.8 | 2356.7 | 2362.7 | 2368.7 | 2362.7 | 2356.7 | 2376.8 | 2405.5 | 2469.3 |
| 15°    | 2356.1 | 2309.8 | 2302.3 | 2300.1 | 2313.8 | 2327.6 | 2313.8 | 2300.1 | 2302.3 | 2309.8 | 2356.1 |
| 17.5°  | 2263.6 | 2238.8 | 2254.8 | 2270.8 | 2286.8 | 2302.8 | 2286.8 | 2270.8 | 2254.8 | 2238.8 | 2263.6 |
| 20°    | 2210.0 | 2196.3 | 2226.3 | 2252.5 | 2267.6 | 2282.6 | 2267.6 | 2252.5 | 2226.3 | 2196.3 | 2210.0 |
| 22.5°  | 2167.5 | 2161.7 | 2194.8 | 2221.5 | 2229.5 | 2237.5 | 2229.5 | 2221.5 | 2194.8 | 2161.7 | 2167.5 |
| 25°    | 2100.2 | 2108.4 | 2137.2 | 2157.8 | 2154.0 | 2150.3 | 2154.0 | 2157.8 | 2137.2 | 2108.4 | 2100.2 |
| 27.5°  | 2035.4 | 2051.5 | 2069.0 | 2082.7 | 2085.0 | 2087.2 | 2085.0 | 2082.7 | 2069.0 | 2051.5 | 2035.4 |
| 30°    | 1983.6 | 2004.2 | 2021.8 | 2039.0 | 2055.2 | 2071.5 | 2055.2 | 2039.0 | 2021.8 | 2004.2 | 1983.6 |
| 32.5°  | 1925.8 | 1964.5 | 2006.0 | 2046.5 | 2083.7 | 2121.0 | 2083.7 | 2046.5 | 2006.0 | 1964.5 | 1925.8 |
| 35°    | 1844.1 | 1900.4 | 1969.2 | 2051.5 | 2174.1 | 2296.6 | 2174.1 | 2051.5 | 1969.2 | 1900.4 | 1844.1 |
| 37.5°  | 1758.1 | 1817.4 | 1876.7 | 1930.9 | 1970.0 | 2009.0 | 1970.0 | 1930.9 | 1876.7 | 1817.4 | 1758.1 |
| 40°    | 1698.1 | 1771.9 | 1848.2 | 1882.9 | 1792.8 | 1702.8 | 1792.8 | 1882.9 | 1848.2 | 1771.9 | 1698.1 |
| 42.5°  | 1621.0 | 1702.3 | 1801.7 | 1838.1 | 1686.0 | 1533.9 | 1686.0 | 1838.1 | 1801.7 | 1702.3 | 1621.0 |
| 45°    | 1507.6 | 1552.7 | 1578.9 | 1571.4 | 1462.6 | 1353.8 | 1462.6 | 1571.4 | 1578.9 | 1552.7 | 1507.6 |
| 47.5°  | 1428.6 | 1433.6 | 1374.8 | 1320.1 | 1277.5 | 1235.0 | 1277.5 | 1320.1 | 1374.8 | 1433.6 | 1428.6 |
| 50°    | 1387.6 | 1380.0 | 1286.2 | 1209.0 | 1181.5 | 1153.9 | 1181.5 | 1209.0 | 1286.2 | 1380.0 | 1387.6 |
| 52.5°  | 1354.8 | 1339.8 | 1214.9 | 1116.7 | 1098.2 | 1079.6 | 1098.2 | 1116.7 | 1214.9 | 1339.8 | 1354.8 |
| 55°    | 1316.3 | 1296.2 | 1124.9 | 995.4  | 991.6  | 987.9  | 991.6  | 995.4  | 1124.9 | 1296.2 | 1316.3 |
| 57.5°  | 1168.8 | 1147.8 | 999.2  | 889.3  | 895.8  | 902.3  | 895.8  | 889.3  | 999.2  | 1147.8 | 1168.8 |
| 60°    | 1024.2 | 1004.2 | 901.6  | 822.8  | 815.3  | 807.8  | 815.3  | 822.8  | 901.6  | 1004.2 | 1024.2 |
| 62.5°  | 888.8  | 865.3  | 795.8  | 741.7  | 734.2  | 726.7  | 734.2  | 741.7  | 795.8  | 865.3  | 888.8  |
| 65°    | 728.3  | 694.6  | 637.0  | 593.9  | 593.9  | 593.9  | 593.9  | 637.0  | 694.6  | 728.3  | 728.3  |
| 67.5°  | 597.6  | 564.1  | 520.3  | 480.0  | 449.9  | 419.9  | 449.9  | 520.3  | 564.1  | 597.6  | 597.6  |
| 70°    | 513.8  | 473.8  | 425.0  | 383.4  | 363.4  | 343.4  | 363.4  | 425.0  | 473.8  | 513.8  | 513.8  |
| 72.5°  | 427.2  | 388.2  | 348.4  | 312.8  | 289.8  | 266.8  | 289.8  | 348.4  | 388.2  | 427.2  | 427.2  |
| 75°    | 305.5  | 266.1  | 229.9  | 202.0  | 199.5  | 197.0  | 199.5  | 229.9  | 266.1  | 305.5  | 305.5  |
| 77.5°  | 209.6  | 182.3  | 164.0  | 150.4  | 150.6  | 150.9  | 150.6  | 164.0  | 182.3  | 209.6  | 209.6  |
| 80°    | 142.6  | 123.2  | 122.0  | 121.3  | 122.6  | 123.8  | 122.6  | 121.3  | 122.0  | 123.2  | 142.6  |
| 82.5°  | 103.6  | 93.2   | 94.9   | 96.3   | 96.6   | 96.8   | 96.6   | 94.9   | 93.2   | 103.6  | 103.6  |
| 85°    | 57.5   | 53.8   | 48.8   | 44.7   | 43.5   | 42.2   | 43.5   | 44.7   | 48.8   | 53.8   | 57.5   |
| 87.5°  | 23.5   | 25.3   | 28.6   | 30.5   | 32.4   | 31.4   | 32.4   | 28.6   | 25.3   | 23.5   | 23.5   |
| 90°    | 53.9   | 70.3   | 86.7   | 96.1   | 105.5  | 100.8  | 105.5  | 86.7   | 70.3   | 53.9   | 53.9   |
| 92.5°  | 108.3  | 136.0  | 156.1  | 173.0  | 180.5  | 179.6  | 180.5  | 156.1  | 136.0  | 108.3  | 108.3  |
| 95°    | 218.0  | 250.8  | 283.6  | 307.1  | 321.2  | 316.5  | 321.2  | 283.6  | 250.8  | 218.0  | 218.0  |
| 97.5°  | 336.2  | 380.2  | 416.8  | 438.8  | 452.9  | 462.3  | 452.9  | 416.8  | 380.2  | 336.2  | 336.2  |
| 100°   | 414.9  | 457.1  | 499.3  | 525.1  | 548.5  | 557.9  | 548.5  | 499.3  | 457.1  | 414.9  | 414.9  |
| 102.5° | 478.7  | 534.0  | 580.0  | 607.6  | 627.3  | 636.7  | 627.3  | 580.0  | 534.0  | 478.7  | 478.7  |
| 105°   | 583.7  | 642.3  | 691.5  | 726.7  | 747.8  | 754.8  | 747.8  | 691.5  | 642.3  | 583.7  | 583.7  |
| 107.5° | 688.7  | 749.2  | 794.7  | 833.6  | 859.4  | 874.4  | 859.4  | 794.7  | 749.2  | 688.7  | 688.7  |
| 110°   | 771.2  | 820.5  | 869.7  | 904.9  | 930.6  | 940.0  | 930.6  | 869.7  | 820.5  | 771.2  | 771.2  |



TEST NUMBER: P1427983

CATALOG NUMBER: SQ2W-PH1-K-150U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 230°   | 240°   | 250°   | 260°   | 270°   | 280°   | 290°   | 300°   | 310°   | 320°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 840.6  | 895.5  | 944.7  | 979.9  | 1009.4 | 1022.5 | 1009.4 | 979.9  | 944.7  | 895.5  | 840.6  |
| 115°   | 937.7  | 1010.3 | 1054.9 | 1087.7 | 1108.8 | 1120.5 | 1108.8 | 1087.7 | 1054.9 | 1010.3 | 937.7  |
| 117.5° | 1018.3 | 1094.3 | 1143.0 | 1168.3 | 1178.2 | 1186.6 | 1178.2 | 1168.3 | 1143.0 | 1094.3 | 1018.3 |
| 120°   | 1068.9 | 1139.3 | 1195.5 | 1228.4 | 1240.1 | 1244.8 | 1240.1 | 1228.4 | 1195.5 | 1139.3 | 1068.9 |
| 122.5° | 1115.8 | 1182.4 | 1236.8 | 1277.1 | 1296.3 | 1301.0 | 1296.3 | 1277.1 | 1236.8 | 1182.4 | 1115.8 |
| 125°   | 1181.5 | 1244.8 | 1301.0 | 1340.9 | 1362.0 | 1373.7 | 1362.0 | 1340.9 | 1301.0 | 1244.8 | 1181.5 |
| 127.5° | 1238.7 | 1307.1 | 1358.7 | 1394.8 | 1415.4 | 1424.8 | 1415.4 | 1394.8 | 1358.7 | 1307.1 | 1238.7 |
| 130°   | 1270.5 | 1340.9 | 1392.4 | 1432.3 | 1451.1 | 1460.4 | 1451.1 | 1432.3 | 1392.4 | 1340.9 | 1270.5 |
| 132.5° | 1294.9 | 1369.0 | 1422.5 | 1458.6 | 1479.2 | 1488.6 | 1479.2 | 1458.6 | 1422.5 | 1369.0 | 1294.9 |
| 135°   | 1324.5 | 1401.8 | 1458.1 | 1493.2 | 1512.0 | 1521.4 | 1512.0 | 1493.2 | 1458.1 | 1401.8 | 1324.5 |
| 137.5° | 1350.3 | 1420.6 | 1479.2 | 1516.2 | 1533.1 | 1539.2 | 1533.1 | 1516.2 | 1479.2 | 1420.6 | 1350.3 |
| 140°   | 1369.0 | 1430.0 | 1488.6 | 1523.7 | 1542.5 | 1544.8 | 1542.5 | 1523.7 | 1488.6 | 1430.0 | 1369.0 |
| 142.5° | 1393.4 | 1441.2 | 1492.3 | 1527.5 | 1546.2 | 1550.4 | 1546.2 | 1527.5 | 1492.3 | 1441.2 | 1393.4 |
| 145°   | 1437.0 | 1465.1 | 1500.3 | 1533.1 | 1549.5 | 1554.2 | 1549.5 | 1533.1 | 1500.3 | 1465.1 | 1437.0 |
| 147.5° | 1491.8 | 1500.7 | 1519.0 | 1540.6 | 1556.5 | 1559.8 | 1556.5 | 1540.6 | 1519.0 | 1500.7 | 1491.8 |
| 150°   | 1533.1 | 1530.8 | 1537.8 | 1551.9 | 1565.9 | 1563.6 | 1565.9 | 1551.9 | 1537.8 | 1530.8 | 1533.1 |
| 152.5° | 1580.0 | 1566.4 | 1565.9 | 1572.5 | 1579.0 | 1578.6 | 1579.0 | 1572.5 | 1565.9 | 1566.4 | 1580.0 |
| 155°   | 1659.7 | 1633.9 | 1619.8 | 1615.1 | 1615.1 | 1612.8 | 1615.1 | 1615.1 | 1619.8 | 1633.9 | 1659.7 |
| 157.5° | 1747.4 | 1711.3 | 1690.2 | 1678.9 | 1675.6 | 1670.5 | 1675.6 | 1678.9 | 1690.2 | 1711.3 | 1747.4 |
| 160°   | 1807.4 | 1767.5 | 1746.4 | 1727.7 | 1720.6 | 1713.6 | 1720.6 | 1727.7 | 1746.4 | 1767.5 | 1807.4 |
| 162.5° | 1863.6 | 1825.7 | 1802.7 | 1785.8 | 1778.8 | 1768.0 | 1778.8 | 1785.8 | 1802.7 | 1825.7 | 1863.6 |
| 165°   | 1955.1 | 1915.2 | 1889.4 | 1875.3 | 1866.0 | 1856.6 | 1866.0 | 1875.3 | 1889.4 | 1915.2 | 1955.1 |
| 167.5° | 2046.5 | 2002.9 | 1986.0 | 1970.1 | 1961.1 | 1944.3 | 1961.1 | 1970.1 | 1986.0 | 2002.9 | 2046.5 |
| 170°   | 2102.7 | 2062.9 | 2053.5 | 2039.4 | 2023.0 | 2004.3 | 2023.0 | 2039.4 | 2053.5 | 2062.9 | 2102.7 |
| 172.5° | 2151.5 | 2124.8 | 2115.4 | 2101.3 | 2096.2 | 2081.2 | 2096.2 | 2101.3 | 2115.4 | 2124.8 | 2151.5 |
| 175°   | 2222.3 | 2201.2 | 2201.2 | 2198.8 | 2191.8 | 2177.7 | 2191.8 | 2198.8 | 2201.2 | 2201.2 | 2222.3 |
| 177.5° | 2281.4 | 2270.1 | 2277.6 | 2277.6 | 2275.7 | 2262.6 | 2275.7 | 2277.6 | 2277.6 | 2270.1 | 2281.4 |
| 180°   | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 | 2320.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 2958.0 | 2958.0 | 2958.0 | 2958.0 |
| 2.5°   | 2959.5 | 2979.3 | 2965.3 | 2951.3 |
| 5°     | 2902.7 | 2961.2 | 2962.4 | 2963.7 |
| 7.5°   | 2753.5 | 2832.1 | 2870.9 | 2909.6 |
| 10°    | 2656.0 | 2744.8 | 2803.6 | 2862.4 |
| 12.5°  | 2568.1 | 2665.5 | 2758.3 | 2851.1 |
| 15°    | 2441.1 | 2539.9 | 2680.0 | 2820.1 |
| 17.5°  | 2329.1 | 2416.0 | 2566.8 | 2717.7 |
| 20°    | 2267.6 | 2347.9 | 2496.8 | 2645.6 |
| 22.5°  | 2212.0 | 2283.1 | 2434.0 | 2584.8 |
| 25°    | 2112.8 | 2164.7 | 2334.8 | 2504.9 |
| 27.5°  | 2020.6 | 2054.0 | 2231.6 | 2409.2 |
| 30°    | 1959.8 | 1986.4 | 2164.0 | 2341.7 |
| 32.5°  | 1890.0 | 1909.1 | 2092.7 | 2276.4 |
| 35°    | 1800.3 | 1815.4 | 2006.7 | 2198.1 |
| 37.5°  | 1698.8 | 1705.7 | 1910.8 | 2115.9 |
| 40°    | 1626.8 | 1627.1 | 1842.3 | 2057.4 |
| 42.5°  | 1557.7 | 1564.1 | 1779.2 | 1994.4 |
| 45°    | 1443.8 | 1452.0 | 1675.9 | 1899.8 |
| 47.5°  | 1359.8 | 1361.5 | 1574.9 | 1788.3 |
| 50°    | 1308.7 | 1300.0 | 1501.4 | 1702.8 |
| 52.5°  | 1260.0 | 1236.7 | 1428.1 | 1619.5 |
| 55°    | 1184.9 | 1132.4 | 1316.3 | 1500.1 |
| 57.5°  | 1062.2 | 1025.7 | 1199.6 | 1373.5 |
| 60°    | 961.6  | 956.9  | 1125.8 | 1294.7 |
| 62.5°  | 866.3  | 889.6  | 1050.5 | 1211.4 |
| 65°    | 738.3  | 782.4  | 928.8  | 1075.1 |
| 67.5°  | 620.9  | 670.2  | 797.8  | 925.4  |
| 70°    | 545.1  | 596.7  | 709.3  | 821.8  |
| 72.5°  | 465.5  | 518.4  | 614.9  | 711.5  |
| 75°    | 348.1  | 399.3  | 476.9  | 554.5  |
| 77.5°  | 246.2  | 287.7  | 344.2  | 400.8  |
| 80°    | 180.1  | 218.9  | 261.4  | 304.0  |
| 82.5°  | 126.1  | 150.9  | 182.4  | 213.9  |
| 85°    | 60.0   | 65.7   | 80.7   | 95.7   |
| 87.5°  | 24.2   | 23.4   | 22.5   | 21.7   |
| 90°    | 42.2   | 25.8   | 16.4   | 7.0    |
| 92.5°  | 91.0   | 63.3   | 44.5   | 25.8   |
| 95°    | 182.8  | 145.3  | 103.1  | 72.7   |
| 97.5°  | 291.1  | 230.7  | 188.9  | 138.8  |
| 100°   | 349.3  | 290.7  | 250.8  | 196.9  |
| 102.5° | 413.0  | 363.8  | 309.0  | 255.0  |
| 105°   | 527.4  | 466.5  | 403.2  | 342.3  |
| 107.5° | 633.4  | 566.4  | 490.4  | 435.5  |
| 110°   | 700.9  | 628.2  | 548.5  | 499.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 340°   | 350°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 766.5  | 692.0  | 610.4  | 561.2  |
| 115°   | 855.6  | 773.6  | 698.6  | 656.4  |
| 117.5° | 941.4  | 857.0  | 777.8  | 744.5  |
| 120°   | 993.9  | 909.5  | 832.2  | 806.4  |
| 122.5° | 1037.1 | 954.6  | 882.8  | 872.0  |
| 125°   | 1101.8 | 1017.4 | 956.4  | 970.5  |
| 127.5° | 1154.3 | 1076.9 | 1038.5 | 1069.9 |
| 130°   | 1186.2 | 1118.2 | 1094.7 | 1139.3 |
| 132.5° | 1214.3 | 1161.3 | 1151.0 | 1212.4 |
| 135°   | 1256.5 | 1226.0 | 1235.4 | 1319.8 |
| 137.5° | 1306.6 | 1294.9 | 1326.3 | 1432.8 |
| 140°   | 1338.5 | 1345.6 | 1390.1 | 1509.7 |
| 142.5° | 1381.7 | 1398.1 | 1455.7 | 1582.8 |
| 145°   | 1448.7 | 1483.9 | 1558.9 | 1685.5 |
| 147.5° | 1524.7 | 1570.1 | 1663.0 | 1792.8 |
| 150°   | 1575.3 | 1633.9 | 1732.4 | 1856.6 |
| 152.5° | 1633.4 | 1693.9 | 1792.4 | 1918.5 |
| 155°   | 1723.0 | 1791.0 | 1894.1 | 2001.9 |
| 157.5° | 1814.4 | 1883.8 | 1982.2 | 2076.5 |
| 160°   | 1870.7 | 1945.7 | 2034.8 | 2121.5 |
| 162.5° | 1934.4 | 2003.8 | 2081.6 | 2159.0 |
| 165°   | 2027.7 | 2084.0 | 2147.3 | 2212.9 |
| 167.5° | 2106.0 | 2152.9 | 2202.6 | 2253.7 |
| 170°   | 2156.7 | 2194.2 | 2236.4 | 2276.2 |
| 172.5° | 2199.8 | 2229.8 | 2260.7 | 2295.0 |
| 175°   | 2257.5 | 2273.9 | 2292.6 | 2313.7 |
| 177.5° | 2302.0 | 2307.6 | 2313.2 | 2322.6 |
| 180°   | 2320.7 | 2320.7 | 2320.7 | 2320.7 |



TEST NUMBER: P1427983  
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**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 | 20.23            | 21.08 | 21.19 | 22.05 | 23.34 | 19.06          | 19.90 | 20.02 | 20.88 | 22.17 |
|                 | 3H   | 22.40            | 23.16 | 23.38 | 24.15 | 25.45 | 20.11          | 20.86 | 21.08 | 21.85 | 23.16 |
|                 | 4H   | 23.21            | 23.93 | 24.21 | 24.92 | 26.24 | 20.35          | 21.07 | 21.34 | 22.06 | 23.37 |
|                 | 6H   | 23.68            | 24.34 | 24.68 | 25.34 | 26.66 | 20.49          | 21.15 | 21.49 | 22.15 | 23.47 |
|                 | 8H   | 23.83            | 24.46 | 24.84 | 25.47 | 26.80 | 20.55          | 21.18 | 21.56 | 22.19 | 23.51 |
|                 | 12H  | 23.89            | 24.49 | 24.90 | 25.50 | 26.84 | 20.56          | 21.16 | 21.57 | 22.16 | 23.51 |
| 4H              | 2H   | 20.66            | 21.38 | 21.66 | 22.37 | 23.69 | 19.74          | 20.46 | 20.74 | 21.45 | 22.76 |
|                 | 3H   | 22.91            | 23.51 | 23.92 | 24.53 | 25.86 | 20.97          | 21.56 | 21.97 | 22.59 | 23.91 |
|                 | 4H   | 23.78            | 24.33 | 24.80 | 25.34 | 26.70 | 21.26          | 21.80 | 22.27 | 22.82 | 24.17 |
|                 | 6H   | 24.34            | 24.81 | 25.37 | 25.85 | 27.20 | 21.46          | 21.92 | 22.48 | 22.96 | 24.31 |
|                 | 8H   | 24.55            | 24.98 | 25.57 | 26.01 | 27.38 | 21.55          | 21.98 | 22.57 | 23.01 | 24.38 |
|                 | 12H  | 24.63            | 25.02 | 25.67 | 26.07 | 27.44 | 21.57          | 21.96 | 22.61 | 23.01 | 24.38 |
| 8H              | 4H   | 23.81            | 24.24 | 24.83 | 25.27 | 26.64 | 21.49          | 21.92 | 22.51 | 22.95 | 24.32 |
|                 | 6H   | 24.43            | 24.80 | 25.48 | 25.87 | 27.23 | 21.75          | 22.11 | 22.80 | 23.19 | 24.55 |
|                 | 8H   | 24.70            | 25.01 | 25.76 | 26.07 | 27.45 | 21.90          | 22.22 | 22.96 | 23.27 | 24.65 |
|                 | 12H  | 24.83            | 25.11 | 25.89 | 26.16 | 27.58 | 21.96          | 22.24 | 23.03 | 23.29 | 24.72 |
| 12H             | 4H   | 23.76            | 24.15 | 24.80 | 25.20 | 26.57 | 21.48          | 21.88 | 22.53 | 22.92 | 24.29 |
|                 | 6H   | 24.41            | 24.73 | 25.47 | 25.79 | 27.17 | 21.79          | 22.11 | 22.85 | 23.16 | 24.54 |
|                 | 8H   | 24.68            | 24.96 | 25.74 | 26.01 | 27.44 | 21.95          | 22.23 | 23.01 | 23.28 | 24.70 |