

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: P572077

Luminaire Tested: 22ID-80-L835-SWR

Issue Date: 10/5/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P572077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22ID-80-L835-SWR  
Description: 8000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED SWEEP LENS AND 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7904.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.2 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

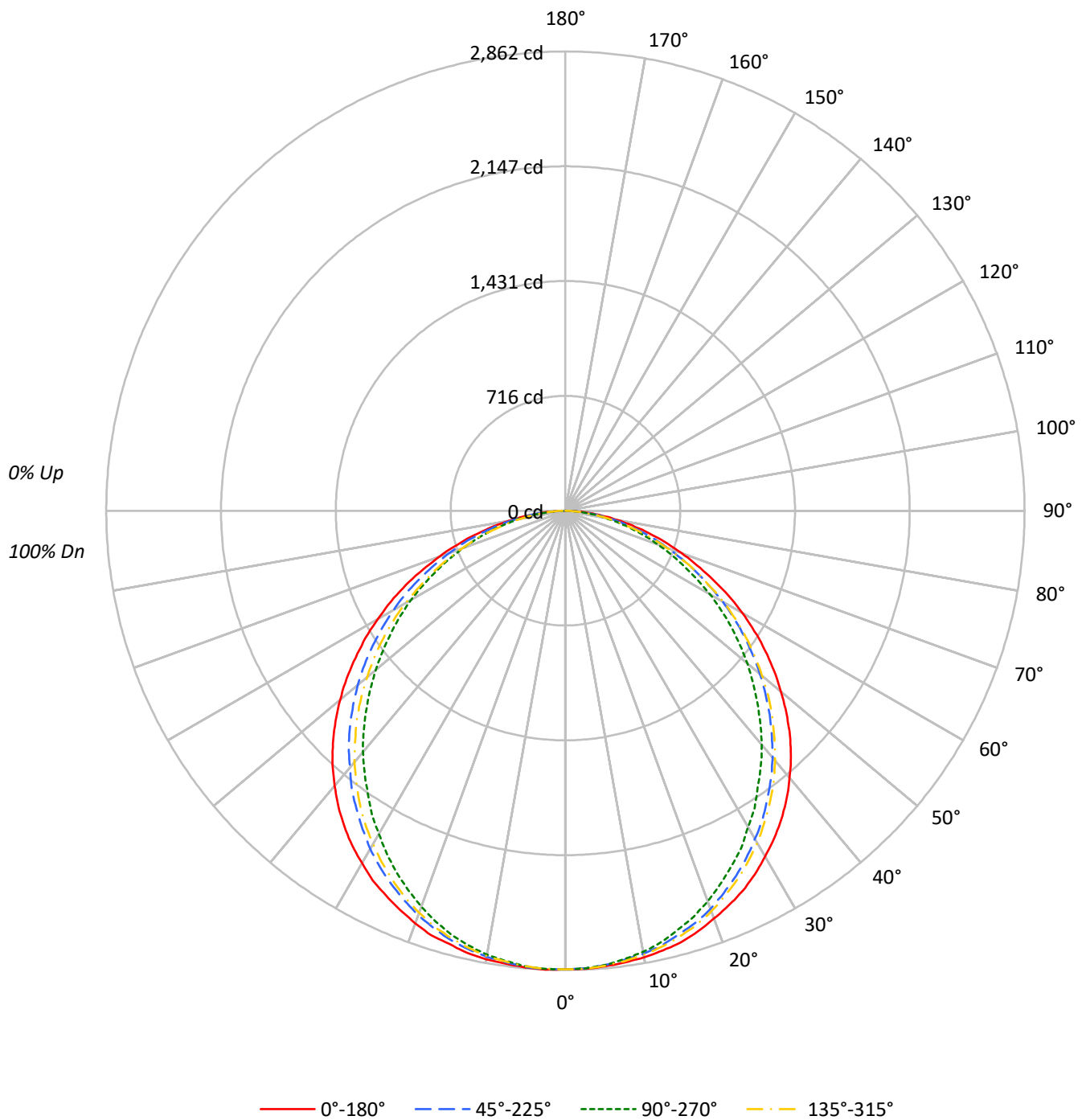
Input Watts (W): 70.8  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P572077

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### Luminous Intensity Polar Plot



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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  | 94  | 91  | 89  | 90  | 88  | 86  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 67  | 62  | 70  | 65  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 65  | 58  | 53  | 62  | 57  | 53  |
| 5   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 47  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 51  | 46  |
| 6   | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 40  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 49  | 42  | 36  | 48  | 41  | 36  | 47  | 41  | 36  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 43  | 37  | 32  |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 7691 | 7691 | 7691 | 7691 |
| 5°  | 7699 | 7678 | 7720 | 7699 |
| 10° | 7724 | 7627 | 7756 | 7681 |
| 15° | 7754 | 7536 | 7787 | 7623 |
| 20° | 7746 | 7420 | 7836 | 7521 |
| 25° | 7763 | 7262 | 7856 | 7390 |
| 30° | 7734 | 7075 | 7880 | 7222 |
| 35° | 7712 | 6874 | 7893 | 7054 |
| 40° | 7640 | 6688 | 7861 | 6895 |
| 45° | 7530 | 6439 | 7799 | 6678 |
| 50° | 7346 | 6196 | 7675 | 6459 |
| 55° | 7128 | 5912 | 7496 | 6225 |
| 60° | 6846 | 5599 | 7268 | 5979 |
| 65° | 6450 | 5200 | 6999 | 5624 |
| 70° | 6054 | 4818 | 6579 | 5312 |
| 75° | 5592 | 4368 | 6123 | 4939 |
| 80° | 5049 | 3832 | 5415 | 4441 |
| 85° | 4122 | 3152 | 4242 | 3758 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 7799 cd/sqm

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.7  | 3.4       |
| 10°-20°   | 776.7  | 9.8       |
| 20°-30°   | 1172.4 | 14.8      |
| 30°-40°   | 1399.8 | 17.7      |
| 40°-50°   | 1428.3 | 18.1      |
| 50°-60°   | 1259.6 | 15.9      |
| 60°-70°   | 930.9  | 11.8      |
| 70°-80°   | 524.9  | 6.6       |
| 80°-90°   | 140.6  | 1.8       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2219.8 | 28.1      |
| 0°-40°    | 3619.7 | 45.8      |
| 0°-60°    | 6307.7 | 79.8      |
| 0°-90°    | 7904.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7904.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2858 | 2858 | 2858 | 2858 | 2858 |      |
| 5°  | 2850 | 2842 | 2858 | 2850 | 2850 | 271  |
| 15° | 2783 | 2705 | 2795 | 2736 | 2783 | 785  |
| 25° | 2615 | 2446 | 2646 | 2489 | 2615 | 1204 |
| 35° | 2348 | 2092 | 2403 | 2147 | 2348 | 1467 |
| 45° | 1979 | 1692 | 2049 | 1755 | 1979 | 1524 |
| 55° | 1519 | 1260 | 1598 | 1327 | 1519 | 1358 |
| 65° | 1013 | 817  | 1099 | 883  | 1013 | 1006 |
| 75° | 538  | 420  | 589  | 475  | 538  | 571  |
| 85° | 134  | 102  | 137  | 122  | 134  | 156  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2854.1 | 2850.1 | 2850.1 | 2854.1 | 2854.1 | 2850.1 | 2854.1 |
| 5°    | 2850.1 | 2850.1 | 2850.1 | 2846.2 | 2842.3 | 2842.3 | 2842.3 | 2842.3 | 2838.4 | 2842.3 | 2842.3 |
| 7.5°  | 2838.4 | 2838.4 | 2838.4 | 2834.4 | 2830.5 | 2830.5 | 2830.5 | 2826.6 | 2822.7 | 2826.6 | 2822.7 |
| 10°   | 2826.6 | 2822.7 | 2822.7 | 2822.7 | 2814.8 | 2810.9 | 2810.9 | 2810.9 | 2806.9 | 2806.9 | 2803.0 |
| 12.5° | 2806.9 | 2803.0 | 2803.0 | 2799.1 | 2795.2 | 2791.2 | 2787.3 | 2783.4 | 2779.5 | 2775.5 | 2775.5 |
| 15°   | 2783.4 | 2783.4 | 2775.5 | 2771.6 | 2763.8 | 2759.8 | 2755.9 | 2752.0 | 2744.1 | 2740.2 | 2732.4 |
| 17.5° | 2748.1 | 2748.1 | 2740.2 | 2736.3 | 2728.4 | 2720.6 | 2720.6 | 2712.7 | 2704.9 | 2697.0 | 2693.1 |
| 20°   | 2704.9 | 2708.8 | 2704.9 | 2697.0 | 2685.2 | 2681.3 | 2677.4 | 2669.5 | 2657.8 | 2649.9 | 2642.1 |
| 22.5° | 2661.7 | 2665.6 | 2657.8 | 2646.0 | 2638.1 | 2634.2 | 2626.4 | 2614.6 | 2602.8 | 2591.0 | 2579.3 |
| 25°   | 2614.6 | 2610.7 | 2602.8 | 2595.0 | 2583.2 | 2579.3 | 2571.4 | 2559.6 | 2540.0 | 2528.2 | 2512.5 |
| 27.5° | 2555.7 | 2555.7 | 2543.9 | 2536.1 | 2516.4 | 2516.4 | 2504.7 | 2489.0 | 2473.3 | 2453.6 | 2441.8 |
| 30°   | 2489.0 | 2489.0 | 2481.1 | 2469.3 | 2449.7 | 2445.8 | 2434.0 | 2422.2 | 2398.7 | 2379.0 | 2363.3 |
| 32.5° | 2422.2 | 2418.3 | 2410.4 | 2398.7 | 2379.0 | 2371.2 | 2359.4 | 2343.7 | 2324.1 | 2296.6 | 2284.8 |
| 35°   | 2347.6 | 2343.7 | 2331.9 | 2316.2 | 2300.5 | 2292.7 | 2280.9 | 2261.3 | 2241.6 | 2214.2 | 2194.5 |
| 37.5° | 2265.2 | 2261.3 | 2249.5 | 2233.8 | 2214.2 | 2206.3 | 2194.5 | 2174.9 | 2147.4 | 2127.8 | 2104.2 |
| 40°   | 2174.9 | 2171.0 | 2163.1 | 2147.4 | 2127.8 | 2119.9 | 2104.2 | 2084.6 | 2053.2 | 2029.6 | 2010.0 |
| 42.5° | 2080.7 | 2076.7 | 2065.0 | 2045.3 | 2029.6 | 2021.8 | 2006.1 | 1986.5 | 1959.0 | 1931.5 | 1904.0 |
| 45°   | 1978.6 | 1974.7 | 1962.9 | 1939.3 | 1927.6 | 1915.8 | 1900.1 | 1880.5 | 1856.9 | 1833.3 | 1801.9 |
| 47.5° | 1868.7 | 1864.8 | 1856.9 | 1837.3 | 1813.7 | 1809.8 | 1794.1 | 1774.5 | 1747.0 | 1715.6 | 1692.0 |
| 50°   | 1754.8 | 1754.8 | 1743.1 | 1727.4 | 1711.6 | 1699.9 | 1684.2 | 1664.5 | 1629.2 | 1609.6 | 1582.1 |
| 52.5° | 1641.0 | 1637.1 | 1629.2 | 1609.6 | 1597.8 | 1586.0 | 1566.4 | 1554.6 | 1519.3 | 1503.6 | 1472.2 |
| 55°   | 1519.3 | 1515.4 | 1499.7 | 1487.9 | 1480.0 | 1468.2 | 1452.5 | 1429.0 | 1409.4 | 1385.8 | 1358.3 |
| 57.5° | 1397.6 | 1393.7 | 1381.9 | 1374.0 | 1358.3 | 1346.5 | 1330.8 | 1315.1 | 1287.7 | 1272.0 | 1244.5 |
| 60°   | 1272.0 | 1272.0 | 1264.1 | 1252.3 | 1236.6 | 1224.8 | 1213.1 | 1197.4 | 1173.8 | 1150.3 | 1130.6 |
| 62.5° | 1146.3 | 1146.3 | 1134.6 | 1122.8 | 1114.9 | 1103.1 | 1095.3 | 1075.7 | 1056.0 | 1040.3 | 1008.9 |
| 65°   | 1012.9 | 1012.9 | 997.2  | 993.2  | 985.4  | 977.5  | 965.7  | 946.1  | 934.3  | 906.9  | 895.1  |
| 67.5° | 887.2  | 891.2  | 879.4  | 879.4  | 867.6  | 859.8  | 848.0  | 832.3  | 820.5  | 796.9  | 785.2  |
| 70°   | 769.5  | 773.4  | 765.5  | 761.6  | 749.8  | 742.0  | 734.1  | 722.3  | 706.6  | 698.8  | 679.2  |
| 72.5° | 651.7  | 655.6  | 647.8  | 647.8  | 636.0  | 632.1  | 624.2  | 616.4  | 600.6  | 592.8  | 573.2  |
| 75°   | 537.8  | 533.9  | 533.9  | 537.8  | 526.1  | 522.1  | 518.2  | 502.5  | 494.7  | 486.8  | 471.1  |
| 77.5° | 427.9  | 427.9  | 431.8  | 427.9  | 420.1  | 416.1  | 408.3  | 396.5  | 392.6  | 388.7  | 373.0  |
| 80°   | 325.8  | 329.8  | 329.8  | 325.8  | 318.0  | 314.1  | 310.1  | 298.4  | 294.4  | 294.4  | 282.7  |
| 82.5° | 227.7  | 227.7  | 223.8  | 227.7  | 219.8  | 215.9  | 219.8  | 208.1  | 204.1  | 204.1  | 196.3  |
| 85°   | 133.5  | 129.6  | 129.6  | 133.5  | 129.6  | 129.6  | 129.6  | 121.7  | 121.7  | 121.7  | 113.8  |
| 87.5° | 51.0   | 51.0   | 55.0   | 55.0   | 51.0   | 51.0   | 51.0   | 51.0   | 47.1   | 47.1   | 43.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2854.1 | 2850.1 | 2854.1 | 2854.1 | 2858.0 | 2854.1 | 2858.0 |
| 5°    | 2842.3 | 2842.3 | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2842.3 | 2842.3 |
| 7.5°  | 2822.7 | 2822.7 | 2818.7 | 2818.7 | 2818.7 | 2818.7 | 2814.8 | 2814.8 | 2818.7 | 2818.7 | 2818.7 |
| 10°   | 2799.1 | 2795.2 | 2791.2 | 2791.2 | 2791.2 | 2791.2 | 2787.3 | 2791.2 | 2791.2 | 2791.2 | 2791.2 |
| 12.5° | 2763.8 | 2763.8 | 2759.8 | 2755.9 | 2755.9 | 2755.9 | 2752.0 | 2755.9 | 2755.9 | 2755.9 | 2755.9 |
| 15°   | 2728.4 | 2724.5 | 2720.6 | 2712.7 | 2712.7 | 2708.8 | 2704.9 | 2708.8 | 2704.9 | 2704.9 | 2708.8 |
| 17.5° | 2677.4 | 2677.4 | 2669.5 | 2665.6 | 2661.7 | 2657.8 | 2653.8 | 2653.8 | 2653.8 | 2653.8 | 2661.7 |
| 20°   | 2626.4 | 2622.4 | 2614.6 | 2598.9 | 2602.8 | 2598.9 | 2591.0 | 2595.0 | 2595.0 | 2591.0 | 2591.0 |
| 22.5° | 2571.4 | 2555.7 | 2547.8 | 2532.1 | 2536.1 | 2528.2 | 2524.3 | 2528.2 | 2524.3 | 2520.4 | 2528.2 |
| 25°   | 2496.8 | 2489.0 | 2469.3 | 2469.3 | 2461.5 | 2457.6 | 2457.6 | 2453.6 | 2449.7 | 2445.8 | 2453.6 |
| 27.5° | 2430.1 | 2414.4 | 2402.6 | 2386.9 | 2379.0 | 2379.0 | 2375.1 | 2371.2 | 2363.3 | 2371.2 | 2371.2 |
| 30°   | 2347.6 | 2331.9 | 2312.3 | 2304.4 | 2296.6 | 2296.6 | 2288.7 | 2284.8 | 2277.0 | 2277.0 | 2288.7 |
| 32.5° | 2269.1 | 2245.6 | 2225.9 | 2214.2 | 2210.2 | 2206.3 | 2202.4 | 2186.7 | 2190.6 | 2194.5 | 2198.4 |
| 35°   | 2174.9 | 2155.3 | 2139.6 | 2127.8 | 2116.0 | 2112.1 | 2108.2 | 2096.4 | 2096.4 | 2092.5 | 2104.2 |
| 37.5° | 2084.6 | 2061.0 | 2049.3 | 2029.6 | 2021.8 | 2013.9 | 2010.0 | 2002.2 | 1998.2 | 2002.2 | 2006.1 |
| 40°   | 1986.5 | 1966.8 | 1947.2 | 1927.6 | 1919.7 | 1915.8 | 1904.0 | 1904.0 | 1896.2 | 1904.0 | 1904.0 |
| 42.5° | 1884.4 | 1864.8 | 1841.2 | 1825.5 | 1817.6 | 1809.8 | 1801.9 | 1798.0 | 1798.0 | 1798.0 | 1801.9 |
| 45°   | 1782.3 | 1758.8 | 1735.2 | 1719.5 | 1711.6 | 1707.7 | 1695.9 | 1692.0 | 1684.2 | 1692.0 | 1695.9 |
| 47.5° | 1672.4 | 1652.8 | 1629.2 | 1617.4 | 1605.7 | 1601.7 | 1589.9 | 1582.1 | 1578.2 | 1586.0 | 1586.0 |
| 50°   | 1562.5 | 1542.8 | 1523.2 | 1507.5 | 1495.7 | 1491.8 | 1480.0 | 1480.0 | 1472.2 | 1480.0 | 1480.0 |
| 52.5° | 1452.5 | 1432.9 | 1413.3 | 1393.7 | 1385.8 | 1381.9 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 |
| 55°   | 1342.6 | 1315.1 | 1303.4 | 1283.7 | 1275.9 | 1272.0 | 1268.0 | 1256.3 | 1260.2 | 1260.2 | 1260.2 |
| 57.5° | 1228.8 | 1209.1 | 1185.6 | 1177.7 | 1166.0 | 1162.0 | 1162.0 | 1146.3 | 1142.4 | 1150.3 | 1150.3 |
| 60°   | 1114.9 | 1099.2 | 1075.7 | 1063.9 | 1056.0 | 1056.0 | 1044.3 | 1028.6 | 1024.6 | 1040.3 | 1040.3 |
| 62.5° | 997.2  | 973.6  | 961.8  | 950.0  | 942.2  | 938.3  | 934.3  | 922.6  | 926.5  | 922.6  | 922.6  |
| 65°   | 887.2  | 863.7  | 855.8  | 844.0  | 836.2  | 832.3  | 828.3  | 820.5  | 812.6  | 816.6  | 816.6  |
| 67.5° | 777.3  | 757.7  | 745.9  | 738.1  | 730.2  | 730.2  | 722.3  | 714.5  | 718.4  | 714.5  | 714.5  |
| 70°   | 671.3  | 655.6  | 639.9  | 636.0  | 628.1  | 628.1  | 624.2  | 620.3  | 616.4  | 612.4  | 612.4  |
| 72.5° | 569.2  | 553.5  | 541.8  | 533.9  | 530.0  | 530.0  | 526.1  | 514.3  | 518.2  | 514.3  | 514.3  |
| 75°   | 463.2  | 451.5  | 447.5  | 439.7  | 435.8  | 435.8  | 431.8  | 424.0  | 427.9  | 420.1  | 412.2  |
| 77.5° | 369.0  | 357.2  | 353.3  | 349.4  | 353.3  | 349.4  | 337.6  | 341.5  | 337.6  | 329.8  | 329.8  |
| 80°   | 282.7  | 270.9  | 270.9  | 263.0  | 259.1  | 259.1  | 255.2  | 255.2  | 251.3  | 247.3  | 247.3  |
| 82.5° | 192.4  | 188.4  | 184.5  | 180.6  | 176.7  | 184.5  | 176.7  | 172.7  | 172.7  | 172.7  | 168.8  |
| 85°   | 109.9  | 109.9  | 106.0  | 106.0  | 102.1  | 106.0  | 102.1  | 98.1   | 102.1  | 102.1  | 94.2   |
| 87.5° | 43.2   | 47.1   | 39.3   | 39.3   | 39.3   | 39.3   | 35.3   | 39.3   | 39.3   | 39.3   | 35.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2858.0 | 2854.1 | 2854.1 | 2854.1 | 2854.1 | 2850.1 | 2854.1 | 2854.1 | 2858.0 | 2854.1 | 2854.1 |
| 5°    | 2842.3 | 2838.4 | 2842.3 | 2838.4 | 2838.4 | 2842.3 | 2842.3 | 2846.2 | 2846.2 | 2850.1 | 2850.1 |
| 7.5°  | 2818.7 | 2818.7 | 2818.7 | 2818.7 | 2818.7 | 2822.7 | 2822.7 | 2826.6 | 2830.5 | 2830.5 | 2834.4 |
| 10°   | 2791.2 | 2791.2 | 2795.2 | 2791.2 | 2795.2 | 2799.1 | 2803.0 | 2806.9 | 2810.9 | 2814.8 | 2814.8 |
| 12.5° | 2755.9 | 2755.9 | 2755.9 | 2763.8 | 2763.8 | 2767.7 | 2771.6 | 2779.5 | 2783.4 | 2791.2 | 2791.2 |
| 15°   | 2708.8 | 2708.8 | 2716.7 | 2716.7 | 2720.6 | 2728.4 | 2736.3 | 2740.2 | 2748.1 | 2755.9 | 2759.8 |
| 17.5° | 2657.8 | 2657.8 | 2665.6 | 2665.6 | 2669.5 | 2681.3 | 2689.2 | 2693.1 | 2708.8 | 2716.7 | 2724.5 |
| 20°   | 2598.9 | 2598.9 | 2610.7 | 2606.7 | 2614.6 | 2626.4 | 2634.2 | 2646.0 | 2657.8 | 2669.5 | 2677.4 |
| 22.5° | 2528.2 | 2532.1 | 2543.9 | 2543.9 | 2547.8 | 2563.5 | 2575.3 | 2587.1 | 2598.9 | 2614.6 | 2626.4 |
| 25°   | 2453.6 | 2457.6 | 2469.3 | 2473.3 | 2477.2 | 2492.9 | 2508.6 | 2516.4 | 2536.1 | 2555.7 | 2563.5 |
| 27.5° | 2371.2 | 2379.0 | 2386.9 | 2390.8 | 2398.7 | 2418.3 | 2434.0 | 2449.7 | 2465.4 | 2485.0 | 2500.7 |
| 30°   | 2288.7 | 2296.6 | 2304.4 | 2308.4 | 2316.2 | 2335.9 | 2351.6 | 2371.2 | 2390.8 | 2410.4 | 2426.1 |
| 32.5° | 2194.5 | 2206.3 | 2214.2 | 2222.0 | 2225.9 | 2249.5 | 2269.1 | 2288.7 | 2308.4 | 2331.9 | 2351.6 |
| 35°   | 2104.2 | 2116.0 | 2123.9 | 2127.8 | 2135.6 | 2159.2 | 2174.9 | 2194.5 | 2222.0 | 2245.6 | 2265.2 |
| 37.5° | 2006.1 | 2013.9 | 2029.6 | 2029.6 | 2037.5 | 2065.0 | 2084.6 | 2104.2 | 2131.7 | 2155.3 | 2178.8 |
| 40°   | 1907.9 | 1911.9 | 1927.6 | 1931.5 | 1939.3 | 1966.8 | 1986.5 | 2013.9 | 2033.6 | 2061.0 | 2084.6 |
| 42.5° | 1801.9 | 1813.7 | 1829.4 | 1837.3 | 1845.1 | 1860.8 | 1876.5 | 1907.9 | 1927.6 | 1959.0 | 1982.5 |
| 45°   | 1695.9 | 1707.7 | 1715.6 | 1719.5 | 1739.1 | 1754.8 | 1770.5 | 1801.9 | 1825.5 | 1853.0 | 1880.5 |
| 47.5° | 1589.9 | 1597.8 | 1609.6 | 1625.3 | 1633.1 | 1648.8 | 1660.6 | 1692.0 | 1715.6 | 1747.0 | 1770.5 |
| 50°   | 1480.0 | 1491.8 | 1499.7 | 1503.6 | 1519.3 | 1538.9 | 1554.6 | 1582.1 | 1601.7 | 1633.1 | 1660.6 |
| 52.5° | 1370.1 | 1385.8 | 1385.8 | 1401.5 | 1409.4 | 1417.2 | 1440.8 | 1468.2 | 1487.9 | 1515.4 | 1542.8 |
| 55°   | 1264.1 | 1272.0 | 1283.7 | 1287.7 | 1299.4 | 1307.3 | 1323.0 | 1350.5 | 1374.0 | 1401.5 | 1429.0 |
| 57.5° | 1146.3 | 1154.2 | 1162.0 | 1177.7 | 1185.6 | 1201.3 | 1217.0 | 1236.6 | 1256.3 | 1283.7 | 1303.4 |
| 60°   | 1032.5 | 1044.3 | 1052.1 | 1063.9 | 1063.9 | 1083.5 | 1103.1 | 1122.8 | 1138.5 | 1166.0 | 1185.6 |
| 62.5° | 930.4  | 930.4  | 930.4  | 946.1  | 942.2  | 957.9  | 973.6  | 997.2  | 1012.9 | 1048.2 | 1071.7 |
| 65°   | 820.5  | 824.4  | 824.4  | 836.2  | 832.3  | 848.0  | 859.8  | 883.3  | 899.0  | 918.6  | 942.2  |
| 67.5° | 714.5  | 714.5  | 718.4  | 730.2  | 726.3  | 738.1  | 757.7  | 769.5  | 781.2  | 804.8  | 824.4  |
| 70°   | 604.6  | 608.5  | 612.4  | 624.2  | 620.3  | 636.0  | 647.8  | 655.6  | 671.3  | 687.0  | 702.7  |
| 72.5° | 510.4  | 510.4  | 522.1  | 522.1  | 518.2  | 530.0  | 541.8  | 549.6  | 557.5  | 577.1  | 596.7  |
| 75°   | 420.1  | 416.1  | 424.0  | 424.0  | 420.1  | 424.0  | 431.8  | 443.6  | 451.5  | 467.2  | 482.9  |
| 77.5° | 329.8  | 325.8  | 333.7  | 333.7  | 333.7  | 329.8  | 341.5  | 345.5  | 349.4  | 357.2  | 373.0  |
| 80°   | 243.4  | 239.5  | 247.3  | 247.3  | 239.5  | 243.4  | 251.3  | 255.2  | 255.2  | 263.0  | 274.8  |
| 82.5° | 168.8  | 164.9  | 168.8  | 168.8  | 168.8  | 168.8  | 172.7  | 168.8  | 172.7  | 172.7  | 184.5  |
| 85°   | 102.1  | 98.1   | 102.1  | 98.1   | 98.1   | 94.2   | 102.1  | 98.1   | 98.1   | 102.1  | 102.1  |
| 87.5° | 35.3   | 35.3   | 39.3   | 39.3   | 35.3   | 39.3   | 35.3   | 35.3   | 35.3   | 39.3   | 35.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2861.9 | 2861.9 | 2858.0 | 2861.9 | 2858.0 |
| 5°    | 2850.1 | 2850.1 | 2854.1 | 2854.1 | 2854.1 | 2854.1 | 2854.1 | 2858.0 | 2858.0 | 2858.0 | 2854.1 |
| 7.5°  | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2842.3 | 2846.2 | 2846.2 | 2846.2 | 2850.1 | 2846.2 | 2846.2 |
| 10°   | 2818.7 | 2826.6 | 2826.6 | 2830.5 | 2830.5 | 2834.4 | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2838.4 |
| 12.5° | 2799.1 | 2803.0 | 2806.9 | 2810.9 | 2814.8 | 2814.8 | 2822.7 | 2822.7 | 2822.7 | 2822.7 | 2818.7 |
| 15°   | 2767.7 | 2775.5 | 2779.5 | 2783.4 | 2791.2 | 2791.2 | 2799.1 | 2795.2 | 2803.0 | 2799.1 | 2795.2 |
| 17.5° | 2732.4 | 2740.2 | 2748.1 | 2748.1 | 2759.8 | 2763.8 | 2771.6 | 2775.5 | 2775.5 | 2771.6 | 2763.8 |
| 20°   | 2689.2 | 2701.0 | 2704.9 | 2712.7 | 2720.6 | 2728.4 | 2732.4 | 2736.3 | 2740.2 | 2736.3 | 2732.4 |
| 22.5° | 2638.1 | 2653.8 | 2657.8 | 2665.6 | 2677.4 | 2685.2 | 2689.2 | 2693.1 | 2697.0 | 2697.0 | 2689.2 |
| 25°   | 2583.2 | 2602.8 | 2602.8 | 2614.6 | 2626.4 | 2638.1 | 2646.0 | 2646.0 | 2653.8 | 2646.0 | 2646.0 |
| 27.5° | 2516.4 | 2540.0 | 2551.8 | 2555.7 | 2571.4 | 2583.2 | 2591.0 | 2598.9 | 2598.9 | 2591.0 | 2591.0 |
| 30°   | 2449.7 | 2473.3 | 2485.0 | 2489.0 | 2508.6 | 2520.4 | 2528.2 | 2536.1 | 2536.1 | 2536.1 | 2528.2 |
| 32.5° | 2375.1 | 2402.6 | 2414.4 | 2418.3 | 2441.8 | 2453.6 | 2465.4 | 2473.3 | 2473.3 | 2469.3 | 2457.6 |
| 35°   | 2296.6 | 2316.2 | 2335.9 | 2343.7 | 2363.3 | 2375.1 | 2394.7 | 2402.6 | 2398.7 | 2398.7 | 2386.9 |
| 37.5° | 2206.3 | 2237.7 | 2249.5 | 2257.3 | 2280.9 | 2296.6 | 2316.2 | 2324.1 | 2324.1 | 2320.1 | 2312.3 |
| 40°   | 2112.1 | 2147.4 | 2159.2 | 2171.0 | 2194.5 | 2214.2 | 2225.9 | 2237.7 | 2237.7 | 2237.7 | 2229.9 |
| 42.5° | 2017.9 | 2045.3 | 2061.0 | 2072.8 | 2100.3 | 2112.1 | 2131.7 | 2147.4 | 2147.4 | 2143.5 | 2131.7 |
| 45°   | 1911.9 | 1943.3 | 1959.0 | 1970.8 | 1998.2 | 2021.8 | 2033.6 | 2049.3 | 2045.3 | 2045.3 | 2029.6 |
| 47.5° | 1805.9 | 1837.3 | 1853.0 | 1864.8 | 1892.2 | 1919.7 | 1927.6 | 1943.3 | 1943.3 | 1943.3 | 1927.6 |
| 50°   | 1695.9 | 1727.4 | 1739.1 | 1750.9 | 1782.3 | 1798.0 | 1817.6 | 1833.3 | 1833.3 | 1837.3 | 1821.6 |
| 52.5° | 1582.1 | 1605.7 | 1625.3 | 1633.1 | 1664.5 | 1684.2 | 1699.9 | 1719.5 | 1719.5 | 1711.6 | 1711.6 |
| 55°   | 1460.4 | 1487.9 | 1507.5 | 1515.4 | 1538.9 | 1570.3 | 1582.1 | 1597.8 | 1597.8 | 1597.8 | 1589.9 |
| 57.5° | 1338.7 | 1370.1 | 1385.8 | 1393.7 | 1421.1 | 1444.7 | 1460.4 | 1476.1 | 1480.0 | 1480.0 | 1464.3 |
| 60°   | 1213.1 | 1244.5 | 1260.2 | 1268.0 | 1299.4 | 1319.1 | 1334.8 | 1350.5 | 1354.4 | 1358.3 | 1342.6 |
| 62.5° | 1095.3 | 1122.8 | 1138.5 | 1146.3 | 1169.9 | 1185.6 | 1205.2 | 1224.8 | 1228.8 | 1228.8 | 1220.9 |
| 65°   | 965.7  | 993.2  | 1005.0 | 1012.9 | 1032.5 | 1060.0 | 1083.5 | 1099.2 | 1103.1 | 1099.2 | 1099.2 |
| 67.5° | 844.0  | 867.6  | 883.3  | 887.2  | 906.9  | 934.3  | 946.1  | 961.8  | 965.7  | 965.7  | 961.8  |
| 70°   | 722.3  | 749.8  | 761.6  | 769.5  | 785.2  | 808.7  | 820.5  | 836.2  | 840.1  | 844.0  | 836.2  |
| 72.5° | 608.5  | 628.1  | 639.9  | 647.8  | 667.4  | 687.0  | 694.9  | 710.6  | 718.4  | 718.4  | 710.6  |
| 75°   | 494.7  | 514.3  | 522.1  | 530.0  | 545.7  | 565.3  | 573.2  | 588.9  | 596.7  | 592.8  | 592.8  |
| 77.5° | 384.7  | 400.4  | 408.3  | 412.2  | 424.0  | 447.5  | 451.5  | 467.2  | 467.2  | 471.1  | 471.1  |
| 80°   | 282.7  | 294.4  | 302.3  | 306.2  | 314.1  | 329.8  | 337.6  | 349.4  | 357.2  | 353.3  | 353.3  |
| 82.5° | 188.4  | 196.3  | 204.1  | 212.0  | 212.0  | 227.7  | 227.7  | 239.5  | 239.5  | 247.3  | 243.4  |
| 85°   | 106.0  | 109.9  | 113.8  | 117.8  | 117.8  | 129.6  | 129.6  | 137.4  | 145.3  | 137.4  | 137.4  |
| 87.5° | 35.3   | 39.3   | 39.3   | 43.2   | 39.3   | 47.1   | 43.2   | 51.0   | 55.0   | 55.0   | 51.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 5°    | 2854.1 | 2854.1 | 2850.1 | 2854.1 | 2854.1 | 2854.1 | 2854.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 |
| 7.5°  | 2846.2 | 2842.3 | 2842.3 | 2842.3 | 2838.4 | 2838.4 | 2838.4 | 2838.4 | 2834.4 | 2834.4 | 2834.4 |
| 10°   | 2834.4 | 2830.5 | 2830.5 | 2830.5 | 2826.6 | 2826.6 | 2822.7 | 2818.7 | 2818.7 | 2814.8 | 2810.9 |
| 12.5° | 2818.7 | 2814.8 | 2810.9 | 2810.9 | 2806.9 | 2803.0 | 2799.1 | 2795.2 | 2791.2 | 2783.4 | 2783.4 |
| 15°   | 2791.2 | 2791.2 | 2787.3 | 2783.4 | 2775.5 | 2775.5 | 2767.7 | 2763.8 | 2755.9 | 2748.1 | 2748.1 |
| 17.5° | 2763.8 | 2759.8 | 2755.9 | 2748.1 | 2740.2 | 2736.3 | 2728.4 | 2720.6 | 2712.7 | 2704.9 | 2701.0 |
| 20°   | 2728.4 | 2716.7 | 2720.6 | 2708.8 | 2701.0 | 2693.1 | 2681.3 | 2673.5 | 2661.7 | 2653.8 | 2646.0 |
| 22.5° | 2681.3 | 2677.4 | 2673.5 | 2661.7 | 2649.9 | 2646.0 | 2626.4 | 2614.6 | 2602.8 | 2591.0 | 2583.2 |
| 25°   | 2630.3 | 2626.4 | 2622.4 | 2610.7 | 2595.0 | 2587.1 | 2567.5 | 2555.7 | 2536.1 | 2528.2 | 2520.4 |
| 27.5° | 2571.4 | 2571.4 | 2563.5 | 2547.8 | 2536.1 | 2516.4 | 2504.7 | 2481.1 | 2465.4 | 2453.6 | 2445.8 |
| 30°   | 2508.6 | 2508.6 | 2500.7 | 2481.1 | 2465.4 | 2445.8 | 2434.0 | 2410.4 | 2390.8 | 2379.0 | 2363.3 |
| 32.5° | 2445.8 | 2441.8 | 2434.0 | 2414.4 | 2394.7 | 2375.1 | 2351.6 | 2331.9 | 2308.4 | 2296.6 | 2280.9 |
| 35°   | 2371.2 | 2367.3 | 2359.4 | 2335.9 | 2320.1 | 2296.6 | 2269.1 | 2245.6 | 2222.0 | 2210.2 | 2186.7 |
| 37.5° | 2292.7 | 2284.8 | 2277.0 | 2249.5 | 2229.9 | 2206.3 | 2186.7 | 2155.3 | 2131.7 | 2116.0 | 2104.2 |
| 40°   | 2206.3 | 2202.4 | 2190.6 | 2167.0 | 2139.6 | 2116.0 | 2088.5 | 2065.0 | 2041.4 | 2021.8 | 2006.1 |
| 42.5° | 2119.9 | 2104.2 | 2096.4 | 2072.8 | 2053.2 | 2017.9 | 1998.2 | 1966.8 | 1943.3 | 1927.6 | 1904.0 |
| 45°   | 2021.8 | 2010.0 | 1998.2 | 1974.7 | 1947.2 | 1919.7 | 1900.1 | 1864.8 | 1841.2 | 1821.6 | 1801.9 |
| 47.5° | 1911.9 | 1907.9 | 1896.2 | 1868.7 | 1845.1 | 1817.6 | 1794.1 | 1758.8 | 1735.2 | 1719.5 | 1699.9 |
| 50°   | 1801.9 | 1798.0 | 1790.2 | 1762.7 | 1731.3 | 1707.7 | 1688.1 | 1652.8 | 1629.2 | 1605.7 | 1593.9 |
| 52.5° | 1699.9 | 1684.2 | 1676.3 | 1652.8 | 1621.4 | 1593.9 | 1578.2 | 1542.8 | 1519.3 | 1495.7 | 1480.0 |
| 55°   | 1582.1 | 1570.3 | 1562.5 | 1542.8 | 1515.4 | 1480.0 | 1464.3 | 1432.9 | 1413.3 | 1397.6 | 1374.0 |
| 57.5° | 1464.3 | 1448.6 | 1440.8 | 1417.2 | 1397.6 | 1370.1 | 1350.5 | 1319.1 | 1299.4 | 1283.7 | 1268.0 |
| 60°   | 1330.8 | 1330.8 | 1323.0 | 1299.4 | 1279.8 | 1252.3 | 1236.6 | 1205.2 | 1185.6 | 1173.8 | 1154.2 |
| 62.5° | 1220.9 | 1205.2 | 1201.3 | 1173.8 | 1162.0 | 1134.6 | 1122.8 | 1095.3 | 1083.5 | 1063.9 | 1044.3 |
| 65°   | 1083.5 | 1083.5 | 1079.6 | 1063.9 | 1048.2 | 1012.9 | 997.2  | 973.6  | 961.8  | 946.1  | 930.4  |
| 67.5° | 961.8  | 950.0  | 950.0  | 934.3  | 914.7  | 895.1  | 883.3  | 859.8  | 851.9  | 832.3  | 820.5  |
| 70°   | 840.1  | 828.3  | 828.3  | 808.7  | 796.9  | 777.3  | 769.5  | 749.8  | 734.1  | 726.3  | 714.5  |
| 72.5° | 718.4  | 710.6  | 706.6  | 690.9  | 683.1  | 663.5  | 659.5  | 639.9  | 624.2  | 620.3  | 608.5  |
| 75°   | 596.7  | 588.9  | 577.1  | 581.0  | 565.3  | 549.6  | 545.7  | 533.9  | 526.1  | 514.3  | 502.5  |
| 77.5° | 475.0  | 467.2  | 467.2  | 459.3  | 451.5  | 439.7  | 435.8  | 427.9  | 416.1  | 408.3  | 400.4  |
| 80°   | 361.2  | 353.3  | 353.3  | 349.4  | 337.6  | 329.8  | 329.8  | 318.0  | 318.0  | 310.1  | 306.2  |
| 82.5° | 247.3  | 243.4  | 239.5  | 243.4  | 235.5  | 227.7  | 231.6  | 227.7  | 223.8  | 215.9  | 212.0  |
| 85°   | 145.3  | 141.3  | 137.4  | 145.3  | 137.4  | 141.3  | 137.4  | 133.5  | 133.5  | 129.6  | 125.6  |
| 87.5° | 55.0   | 55.0   | 51.0   | 55.0   | 55.0   | 58.9   | 55.0   | 55.0   | 55.0   | 55.0   | 55.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 5°    | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2846.2 | 2850.1 |
| 7.5°  | 2834.4 | 2830.5 | 2834.4 | 2830.5 | 2830.5 | 2830.5 | 2830.5 | 2830.5 | 2830.5 | 2830.5 | 2830.5 |
| 10°   | 2810.9 | 2810.9 | 2810.9 | 2810.9 | 2810.9 | 2810.9 | 2810.9 | 2810.9 | 2810.9 | 2806.9 | 2806.9 |
| 12.5° | 2783.4 | 2783.4 | 2779.5 | 2779.5 | 2779.5 | 2775.5 | 2775.5 | 2779.5 | 2779.5 | 2775.5 | 2779.5 |
| 15°   | 2744.1 | 2748.1 | 2740.2 | 2736.3 | 2736.3 | 2736.3 | 2736.3 | 2736.3 | 2736.3 | 2736.3 | 2740.2 |
| 17.5° | 2701.0 | 2697.0 | 2693.1 | 2693.1 | 2689.2 | 2685.2 | 2685.2 | 2689.2 | 2689.2 | 2693.1 | 2693.1 |
| 20°   | 2646.0 | 2646.0 | 2638.1 | 2634.2 | 2630.3 | 2626.4 | 2626.4 | 2630.3 | 2630.3 | 2630.3 | 2638.1 |
| 22.5° | 2583.2 | 2579.3 | 2571.4 | 2567.5 | 2567.5 | 2559.6 | 2563.5 | 2567.5 | 2567.5 | 2567.5 | 2571.4 |
| 25°   | 2512.5 | 2508.6 | 2504.7 | 2500.7 | 2492.9 | 2489.0 | 2489.0 | 2496.8 | 2496.8 | 2504.7 | 2508.6 |
| 27.5° | 2437.9 | 2434.0 | 2426.1 | 2418.3 | 2414.4 | 2410.4 | 2410.4 | 2418.3 | 2418.3 | 2426.1 | 2430.1 |
| 30°   | 2359.4 | 2355.5 | 2343.7 | 2339.8 | 2328.0 | 2324.1 | 2328.0 | 2335.9 | 2339.8 | 2343.7 | 2347.6 |
| 32.5° | 2277.0 | 2269.1 | 2257.3 | 2253.4 | 2241.6 | 2245.6 | 2237.7 | 2249.5 | 2253.4 | 2257.3 | 2261.3 |
| 35°   | 2186.7 | 2178.8 | 2167.0 | 2155.3 | 2151.3 | 2147.4 | 2147.4 | 2155.3 | 2155.3 | 2167.0 | 2171.0 |
| 37.5° | 2088.5 | 2084.6 | 2072.8 | 2065.0 | 2057.1 | 2057.1 | 2049.3 | 2061.0 | 2065.0 | 2072.8 | 2072.8 |
| 40°   | 1998.2 | 1994.3 | 1974.7 | 1966.8 | 1959.0 | 1962.9 | 1951.1 | 1962.9 | 1966.8 | 1974.7 | 1978.6 |
| 42.5° | 1892.2 | 1888.3 | 1872.6 | 1864.8 | 1856.9 | 1860.8 | 1849.1 | 1860.8 | 1856.9 | 1868.7 | 1872.6 |
| 45°   | 1790.2 | 1786.2 | 1774.5 | 1758.8 | 1750.9 | 1754.8 | 1754.8 | 1754.8 | 1750.9 | 1762.7 | 1766.6 |
| 47.5° | 1688.1 | 1680.2 | 1668.5 | 1652.8 | 1644.9 | 1648.8 | 1648.8 | 1648.8 | 1644.9 | 1660.6 | 1660.6 |
| 50°   | 1582.1 | 1574.2 | 1562.5 | 1546.8 | 1542.8 | 1542.8 | 1542.8 | 1542.8 | 1542.8 | 1550.7 | 1554.6 |
| 52.5° | 1472.2 | 1468.2 | 1456.5 | 1440.8 | 1432.9 | 1432.9 | 1432.9 | 1425.1 | 1432.9 | 1436.8 | 1440.8 |
| 55°   | 1362.3 | 1358.3 | 1338.7 | 1330.8 | 1323.0 | 1326.9 | 1323.0 | 1319.1 | 1319.1 | 1326.9 | 1330.8 |
| 57.5° | 1252.3 | 1248.4 | 1236.6 | 1232.7 | 1213.1 | 1217.0 | 1213.1 | 1213.1 | 1217.0 | 1217.0 | 1220.9 |
| 60°   | 1142.4 | 1138.5 | 1126.7 | 1122.8 | 1107.1 | 1111.0 | 1095.3 | 1103.1 | 1107.1 | 1107.1 | 1107.1 |
| 62.5° | 1024.6 | 1024.6 | 1005.0 | 997.2  | 989.3  | 993.2  | 981.5  | 981.5  | 981.5  | 989.3  | 989.3  |
| 65°   | 918.6  | 914.7  | 899.0  | 891.2  | 883.3  | 883.3  | 875.5  | 875.5  | 871.5  | 879.4  | 879.4  |
| 67.5° | 808.7  | 808.7  | 793.0  | 785.2  | 777.3  | 781.2  | 769.5  | 769.5  | 773.4  | 773.4  | 773.4  |
| 70°   | 702.7  | 702.7  | 690.9  | 687.0  | 675.2  | 675.2  | 663.5  | 667.4  | 667.4  | 667.4  | 667.4  |
| 72.5° | 600.6  | 600.6  | 588.9  | 584.9  | 573.2  | 573.2  | 561.4  | 565.3  | 565.3  | 561.4  | 561.4  |
| 75°   | 498.6  | 502.5  | 482.9  | 478.9  | 471.1  | 475.0  | 467.2  | 463.2  | 467.2  | 459.3  | 459.3  |
| 77.5° | 396.5  | 396.5  | 392.6  | 388.7  | 376.9  | 376.9  | 373.0  | 365.1  | 369.0  | 361.2  | 361.2  |
| 80°   | 298.4  | 302.3  | 290.5  | 294.4  | 282.7  | 286.6  | 282.7  | 274.8  | 274.8  | 270.9  | 267.0  |
| 82.5° | 208.1  | 208.1  | 204.1  | 208.1  | 204.1  | 200.2  | 196.3  | 192.4  | 192.4  | 184.5  | 184.5  |
| 85°   | 125.6  | 129.6  | 121.7  | 125.6  | 125.6  | 121.7  | 113.8  | 113.8  | 113.8  | 109.9  | 109.9  |
| 87.5° | 51.0   | 58.9   | 55.0   | 55.0   | 55.0   | 55.0   | 51.0   | 55.0   | 51.0   | 47.1   | 47.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2854.1 | 2858.0 | 2858.0 | 2858.0 | 2858.0 | 2854.1 | 2854.1 | 2854.1 | 2854.1 | 2854.1 | 2858.0 |
| 5°    | 2846.2 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 | 2850.1 |
| 7.5°  | 2830.5 | 2830.5 | 2834.4 | 2834.4 | 2834.4 | 2834.4 | 2838.4 | 2834.4 | 2838.4 | 2834.4 | 2838.4 |
| 10°   | 2806.9 | 2810.9 | 2814.8 | 2814.8 | 2818.7 | 2814.8 | 2818.7 | 2818.7 | 2822.7 | 2822.7 | 2822.7 |
| 12.5° | 2779.5 | 2783.4 | 2783.4 | 2791.2 | 2791.2 | 2791.2 | 2795.2 | 2795.2 | 2799.1 | 2803.0 | 2803.0 |
| 15°   | 2740.2 | 2744.1 | 2748.1 | 2748.1 | 2755.9 | 2763.8 | 2763.8 | 2767.7 | 2771.6 | 2775.5 | 2775.5 |
| 17.5° | 2693.1 | 2697.0 | 2701.0 | 2708.8 | 2716.7 | 2724.5 | 2728.4 | 2728.4 | 2736.3 | 2740.2 | 2740.2 |
| 20°   | 2638.1 | 2646.0 | 2653.8 | 2661.7 | 2665.6 | 2677.4 | 2681.3 | 2685.2 | 2693.1 | 2701.0 | 2701.0 |
| 22.5° | 2579.3 | 2583.2 | 2595.0 | 2602.8 | 2610.7 | 2622.4 | 2626.4 | 2638.1 | 2646.0 | 2649.9 | 2653.8 |
| 25°   | 2508.6 | 2516.4 | 2528.2 | 2536.1 | 2543.9 | 2559.6 | 2571.4 | 2579.3 | 2591.0 | 2598.9 | 2598.9 |
| 27.5° | 2430.1 | 2441.8 | 2453.6 | 2461.5 | 2473.3 | 2492.9 | 2504.7 | 2512.5 | 2528.2 | 2536.1 | 2540.0 |
| 30°   | 2351.6 | 2359.4 | 2375.1 | 2386.9 | 2398.7 | 2418.3 | 2434.0 | 2445.8 | 2461.5 | 2469.3 | 2473.3 |
| 32.5° | 2265.2 | 2277.0 | 2292.7 | 2304.4 | 2320.1 | 2339.8 | 2355.5 | 2367.3 | 2390.8 | 2394.7 | 2398.7 |
| 35°   | 2174.9 | 2186.7 | 2198.4 | 2218.1 | 2233.8 | 2253.4 | 2273.0 | 2288.7 | 2300.5 | 2316.2 | 2320.1 |
| 37.5° | 2080.7 | 2092.5 | 2108.2 | 2123.9 | 2139.6 | 2163.1 | 2182.7 | 2194.5 | 2214.2 | 2225.9 | 2233.8 |
| 40°   | 1982.5 | 1994.3 | 2013.9 | 2033.6 | 2045.3 | 2068.9 | 2088.5 | 2104.2 | 2131.7 | 2139.6 | 2139.6 |
| 42.5° | 1876.5 | 1892.2 | 1904.0 | 1927.6 | 1939.3 | 1966.8 | 1986.5 | 2010.0 | 2025.7 | 2037.5 | 2041.4 |
| 45°   | 1774.5 | 1786.2 | 1809.8 | 1825.5 | 1837.3 | 1864.8 | 1884.4 | 1904.0 | 1923.6 | 1931.5 | 1939.3 |
| 47.5° | 1664.5 | 1680.2 | 1699.9 | 1707.7 | 1727.4 | 1754.8 | 1774.5 | 1794.1 | 1817.6 | 1825.5 | 1829.4 |
| 50°   | 1558.5 | 1570.3 | 1582.1 | 1597.8 | 1613.5 | 1641.0 | 1664.5 | 1684.2 | 1703.8 | 1711.6 | 1715.6 |
| 52.5° | 1448.6 | 1460.4 | 1472.2 | 1491.8 | 1499.7 | 1527.1 | 1538.9 | 1558.5 | 1586.0 | 1593.9 | 1597.8 |
| 55°   | 1334.8 | 1350.5 | 1366.2 | 1378.0 | 1385.8 | 1409.4 | 1425.1 | 1448.6 | 1464.3 | 1472.2 | 1480.0 |
| 57.5° | 1220.9 | 1232.7 | 1248.4 | 1264.1 | 1268.0 | 1291.6 | 1311.2 | 1323.0 | 1342.6 | 1350.5 | 1358.3 |
| 60°   | 1111.0 | 1122.8 | 1134.6 | 1138.5 | 1150.3 | 1173.8 | 1193.4 | 1201.3 | 1220.9 | 1228.8 | 1232.7 |
| 62.5° | 993.2  | 997.2  | 1012.9 | 1024.6 | 1024.6 | 1056.0 | 1067.8 | 1083.5 | 1099.2 | 1103.1 | 1111.0 |
| 65°   | 883.3  | 891.2  | 891.2  | 899.0  | 910.8  | 930.4  | 938.3  | 957.9  | 969.7  | 973.6  | 977.5  |
| 67.5° | 773.4  | 781.2  | 789.1  | 796.9  | 796.9  | 816.6  | 820.5  | 836.2  | 848.0  | 851.9  | 855.8  |
| 70°   | 667.4  | 667.4  | 679.2  | 687.0  | 683.1  | 698.8  | 706.6  | 714.5  | 730.2  | 734.1  | 738.1  |
| 72.5° | 565.3  | 561.4  | 569.2  | 577.1  | 584.9  | 588.9  | 596.7  | 600.6  | 612.4  | 620.3  | 624.2  |
| 75°   | 463.2  | 467.2  | 467.2  | 471.1  | 467.2  | 471.1  | 482.9  | 494.7  | 502.5  | 506.4  | 514.3  |
| 77.5° | 361.2  | 365.1  | 365.1  | 369.0  | 373.0  | 373.0  | 376.9  | 392.6  | 400.4  | 404.4  | 400.4  |
| 80°   | 267.0  | 270.9  | 270.9  | 274.8  | 278.7  | 282.7  | 282.7  | 290.5  | 302.3  | 306.2  | 306.2  |
| 82.5° | 188.4  | 188.4  | 188.4  | 188.4  | 192.4  | 192.4  | 196.3  | 204.1  | 212.0  | 212.0  | 219.8  |
| 85°   | 113.8  | 113.8  | 109.9  | 113.8  | 109.9  | 113.8  | 117.8  | 125.6  | 129.6  | 129.6  | 133.5  |
| 87.5° | 51.0   | 47.1   | 51.0   | 51.0   | 47.1   | 47.1   | 47.1   | 51.0   | 51.0   | 55.0   | 55.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 2.5°  | 2858.0 | 2858.0 | 2858.0 | 2858.0 |
| 5°    | 2850.1 | 2850.1 | 2850.1 | 2850.1 |
| 7.5°  | 2838.4 | 2838.4 | 2838.4 | 2838.4 |
| 10°   | 2822.7 | 2826.6 | 2826.6 | 2826.6 |
| 12.5° | 2803.0 | 2803.0 | 2806.9 | 2806.9 |
| 15°   | 2779.5 | 2779.5 | 2779.5 | 2783.4 |
| 17.5° | 2744.1 | 2748.1 | 2748.1 | 2748.1 |
| 20°   | 2704.9 | 2708.8 | 2708.8 | 2704.9 |
| 22.5° | 2653.8 | 2657.8 | 2661.7 | 2661.7 |
| 25°   | 2602.8 | 2610.7 | 2614.6 | 2614.6 |
| 27.5° | 2543.9 | 2551.8 | 2555.7 | 2555.7 |
| 30°   | 2481.1 | 2489.0 | 2489.0 | 2489.0 |
| 32.5° | 2406.5 | 2418.3 | 2422.2 | 2422.2 |
| 35°   | 2328.0 | 2343.7 | 2347.6 | 2347.6 |
| 37.5° | 2245.6 | 2253.4 | 2265.2 | 2265.2 |
| 40°   | 2155.3 | 2163.1 | 2174.9 | 2174.9 |
| 42.5° | 2057.1 | 2072.8 | 2072.8 | 2080.7 |
| 45°   | 1951.1 | 1966.8 | 1970.8 | 1978.6 |
| 47.5° | 1845.1 | 1860.8 | 1864.8 | 1868.7 |
| 50°   | 1731.3 | 1743.1 | 1754.8 | 1754.8 |
| 52.5° | 1617.4 | 1625.3 | 1633.1 | 1641.0 |
| 55°   | 1495.7 | 1507.5 | 1511.4 | 1519.3 |
| 57.5° | 1370.1 | 1385.8 | 1389.7 | 1397.6 |
| 60°   | 1248.4 | 1260.2 | 1268.0 | 1272.0 |
| 62.5° | 1126.7 | 1134.6 | 1138.5 | 1146.3 |
| 65°   | 993.2  | 1005.0 | 1005.0 | 1012.9 |
| 67.5° | 871.5  | 879.4  | 883.3  | 887.2  |
| 70°   | 742.0  | 757.7  | 761.6  | 769.5  |
| 72.5° | 628.1  | 643.8  | 643.8  | 651.7  |
| 75°   | 526.1  | 530.0  | 530.0  | 537.8  |
| 77.5° | 416.1  | 420.1  | 424.0  | 427.9  |
| 80°   | 314.1  | 318.0  | 318.0  | 325.8  |
| 82.5° | 223.8  | 223.8  | 223.8  | 227.7  |
| 85°   | 137.4  | 133.5  | 129.6  | 133.5  |
| 87.5° | 55.0   | 55.0   | 58.9   | 51.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P572077

CATALOG NUMBER: 22ID-80-L835-SWR

**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 | 19.00            | 20.63 | 19.37 | 20.94 | 21.26 | 17.88          | 19.51 | 18.25 | 19.83 | 20.14 |
|                 | 3H   | 20.75            | 22.22 | 21.13 | 22.55 | 22.91 | 19.50          | 20.97 | 19.88 | 21.30 | 21.66 |
|                 | 4H   | 21.41            | 22.80 | 21.81 | 23.14 | 23.52 | 20.09          | 21.48 | 20.49 | 21.83 | 22.20 |
|                 | 6H   | 21.90            | 23.19 | 22.31 | 23.55 | 23.94 | 20.53          | 21.81 | 20.94 | 22.18 | 22.57 |
|                 | 8H   | 22.06            | 23.29 | 22.49 | 23.68 | 24.07 | 20.66          | 21.89 | 21.09 | 22.28 | 22.67 |
|                 | 12H  | 22.16            | 23.33 | 22.59 | 23.72 | 24.14 | 20.74          | 21.92 | 21.17 | 22.30 | 22.73 |
| 4H              | 2H   | 19.48            | 20.87 | 19.88 | 21.22 | 21.59 | 18.58          | 19.97 | 18.98 | 20.32 | 20.69 |
|                 | 3H   | 21.46            | 22.62 | 21.87 | 23.02 | 23.42 | 20.41          | 21.57 | 20.82 | 21.97 | 22.37 |
|                 | 4H   | 22.26            | 23.31 | 22.69 | 23.72 | 24.15 | 21.12          | 22.16 | 21.55 | 22.58 | 23.01 |
|                 | 6H   | 22.89            | 23.80 | 23.34 | 24.25 | 24.70 | 21.66          | 22.58 | 22.11 | 23.02 | 23.47 |
|                 | 8H   | 23.10            | 23.96 | 23.56 | 24.40 | 24.87 | 21.83          | 22.69 | 22.29 | 23.13 | 23.60 |
|                 | 12H  | 23.25            | 24.02 | 23.73 | 24.49 | 24.96 | 21.95          | 22.72 | 22.43 | 23.19 | 23.66 |
| 8H              | 4H   | 22.49            | 23.35 | 22.95 | 23.79 | 24.26 | 21.46          | 22.32 | 21.92 | 22.76 | 23.23 |
|                 | 6H   | 23.23            | 23.95 | 23.73 | 24.44 | 24.91 | 22.12          | 22.83 | 22.61 | 23.32 | 23.79 |
|                 | 8H   | 23.52            | 24.16 | 24.03 | 24.67 | 25.15 | 22.35          | 22.99 | 22.86 | 23.50 | 23.98 |
|                 | 12H  | 23.74            | 24.31 | 24.25 | 24.80 | 25.36 | 22.53          | 23.09 | 23.03 | 23.58 | 24.15 |
| 12H             | 4H   | 22.51            | 23.28 | 22.99 | 23.76 | 24.23 | 21.51          | 22.28 | 21.99 | 22.75 | 23.22 |
|                 | 6H   | 23.27            | 23.91 | 23.78 | 24.42 | 24.90 | 22.18          | 22.82 | 22.69 | 23.33 | 23.81 |
|                 | 8H   | 23.61            | 24.17 | 24.11 | 24.66 | 25.22 | 22.47          | 23.04 | 22.98 | 23.53 | 24.09 |

END OF REPORT