

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: NEO-RAY

Report Number: P997768

Luminaire Tested: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K  
Description: Define 2 Regressed Direct Recessed with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}  
Light Source: -  
Ballast/Driver: -

**Summary**

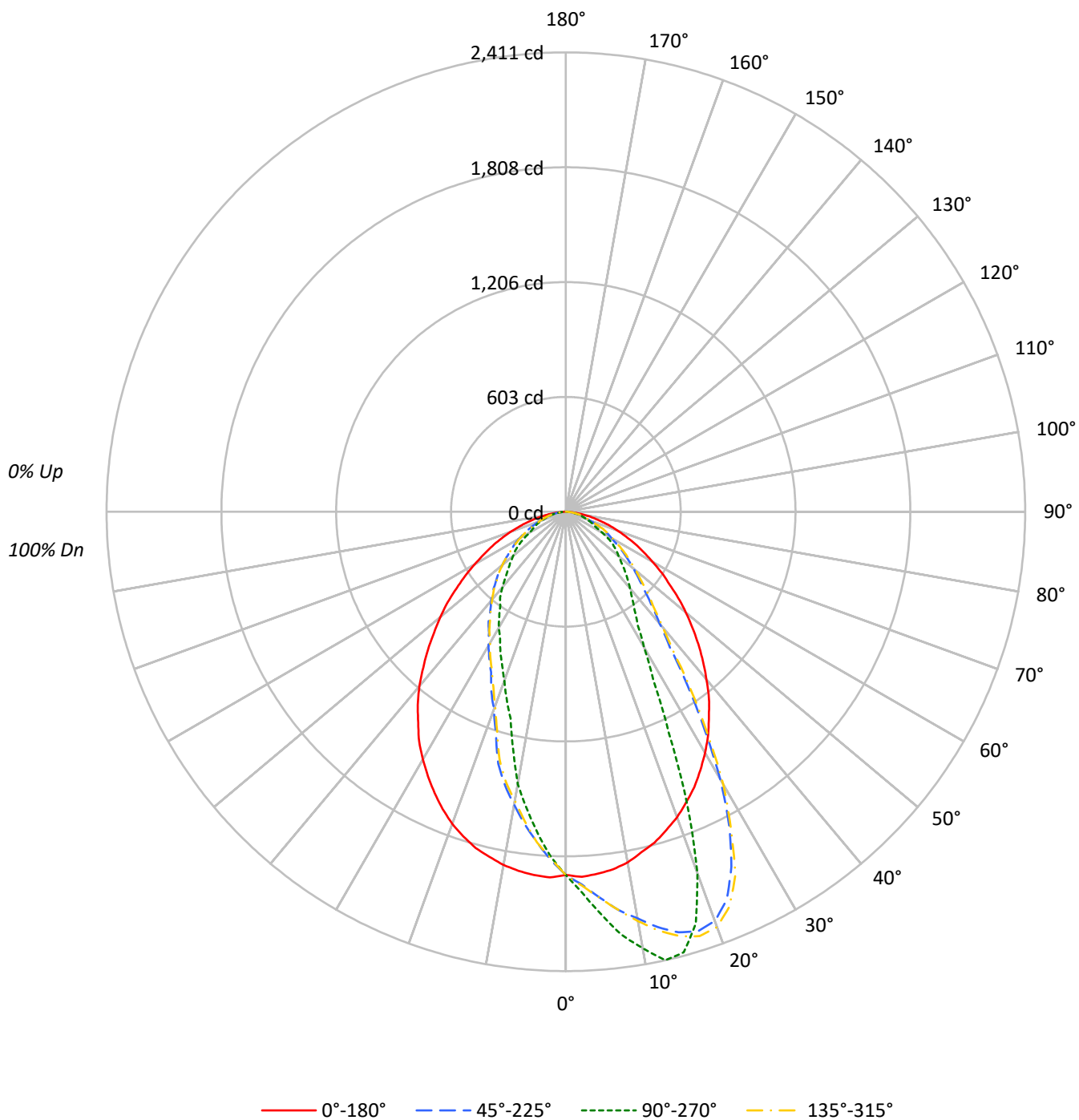
Lumens per Lamp: N/A  
Luminaire Lumens: 3294.0 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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: P997768

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### Luminous Intensity Polar Plot



TEST NUMBER: P997768

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |
| 1   | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    |
| 4   | 87  | 77  | 69  | 63  | 85  | 76  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 59  |    |    |    |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |    |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 39  |    |    |    |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 35  |    |    |    |
| 10  | 59  | 47  | 39  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 34  | 44  | 38  | 34  | 44  | 38  | 34  | 33  |    |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 30172 | 30172 | 30172 | 30172 |
| 5°  | 30308 | 33697 | 30415 | 26920 |
| 10° | 30041 | 37387 | 30255 | 23335 |
| 15° | 29457 | 39226 | 29957 | 18385 |
| 20° | 28740 | 34005 | 29365 | 15909 |
| 25° | 27854 | 22302 | 28457 | 14205 |
| 30° | 26704 | 15012 | 27432 | 12857 |
| 35° | 25289 | 12159 | 26109 | 11594 |
| 40° | 23703 | 10811 | 24716 | 10729 |
| 45° | 22003 | 9785  | 22921 | 9577  |
| 50° | 20257 | 8905  | 21203 | 8873  |
| 55° | 18314 | 8370  | 19302 | 8263  |
| 60° | 16605 | 7003  | 17488 | 6921  |
| 65° | 15035 | 5903  | 15926 | 6697  |
| 70° | 13301 | 5457  | 14347 | 6313  |
| 75° | 11504 | 5107  | 12556 | 5835  |
| 80° | 9535  | 4713  | 10264 | 5196  |
| 85° | 7465  | 4323  | 8173  | 4577  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 33122 cd/sqm

TEST NUMBER: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.8  | 5.5       |
| 10°-20°   | 504.7  | 15.3      |
| 20°-30°   | 649.5  | 19.7      |
| 30°-40°   | 616.2  | 18.7      |
| 40°-50°   | 528.1  | 16.0      |
| 50°-60°   | 402.2  | 12.2      |
| 60°-70°   | 253.6  | 7.7       |
| 70°-80°   | 126.5  | 3.8       |
| 80°-90°   | 32.5   | 1.0       |
| 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°    | 1334.9 | 40.5      |
| 0°-40°    | 1951.1 | 59.2      |
| 0°-60°    | 2881.3 | 87.5      |
| 0°-90°    | 3294.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3294.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1906 | 1906 | 1906 | 1906 | 1906 |      |
| 5°  | 1907 | 2121 | 1914 | 1694 | 1907 | 181  |
| 15° | 1798 | 2394 | 1828 | 1122 | 1798 | 506  |
| 25° | 1595 | 1277 | 1629 | 813  | 1595 | 732  |
| 35° | 1309 | 629  | 1351 | 600  | 1309 | 819  |
| 45° | 983  | 437  | 1024 | 428  | 983  | 759  |
| 55° | 664  | 303  | 699  | 299  | 664  | 598  |
| 65° | 401  | 158  | 425  | 179  | 401  | 398  |
| 75° | 188  | 84   | 205  | 95   | 188  | 204  |
| 85° | 41   | 24   | 45   | 25   | 41   | 49   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1918.0 | 1926.0 | 1930.0 | 1935.3 | 1947.2 | 1955.1 | 1967.0 | 1969.7 | 1968.4 | 1973.7 | 1959.1 |
| 5°    | 1907.4 | 1924.7 | 1940.6 | 1953.8 | 1975.0 | 1988.2 | 2002.8 | 2020.0 | 2024.0 | 2043.9 | 2032.0 |
| 7.5°  | 1892.9 | 1918.0 | 1940.6 | 1967.0 | 1998.8 | 2016.1 | 2038.6 | 2065.1 | 2077.0 | 2100.8 | 2107.5 |
| 10°   | 1869.0 | 1904.8 | 1943.2 | 1971.0 | 2014.7 | 2045.2 | 2066.4 | 2108.8 | 2136.6 | 2172.4 | 2167.1 |
| 12.5° | 1830.6 | 1877.0 | 1928.6 | 1975.0 | 2032.0 | 2051.8 | 2091.6 | 2135.3 | 2171.0 | 2204.2 | 2233.3 |
| 15°   | 1797.5 | 1850.5 | 1907.4 | 1964.4 | 2029.3 | 2066.4 | 2106.1 | 2163.1 | 2201.5 | 2259.8 | 2285.0 |
| 17.5° | 1752.5 | 1820.0 | 1887.6 | 1951.1 | 2028.0 | 2070.4 | 2119.4 | 2175.0 | 2232.0 | 2287.6 | 2307.5 |
| 20°   | 1706.1 | 1779.0 | 1851.8 | 1937.9 | 2025.3 | 2066.4 | 2116.7 | 2185.6 | 2241.2 | 2285.0 | 2285.0 |
| 22.5° | 1650.5 | 1739.2 | 1822.7 | 1904.8 | 2000.2 | 2059.8 | 2111.4 | 2192.2 | 2232.0 | 2241.2 | 2205.5 |
| 25°   | 1594.8 | 1683.6 | 1775.0 | 1877.0 | 1985.6 | 2038.6 | 2096.9 | 2172.4 | 2185.6 | 2148.5 | 2055.8 |
| 27.5° | 1528.6 | 1627.9 | 1731.3 | 1841.2 | 1955.1 | 2021.4 | 2074.3 | 2124.7 | 2099.5 | 2000.2 | 1855.8 |
| 30°   | 1461.0 | 1568.3 | 1684.9 | 1789.5 | 1927.3 | 1988.2 | 2033.3 | 2047.8 | 1968.4 | 1806.8 | 1620.0 |
| 32.5° | 1390.8 | 1495.5 | 1618.7 | 1744.5 | 1883.6 | 1941.9 | 1971.0 | 1932.6 | 1786.9 | 1582.9 | 1355.1 |
| 35°   | 1308.7 | 1426.6 | 1555.1 | 1686.2 | 1824.0 | 1867.7 | 1884.9 | 1790.9 | 1604.1 | 1340.5 | 1114.0 |
| 37.5° | 1234.5 | 1352.4 | 1490.2 | 1624.0 | 1757.8 | 1781.6 | 1764.4 | 1617.3 | 1380.2 | 1119.3 | 898.1  |
| 40°   | 1147.1 | 1272.9 | 1408.1 | 1557.7 | 1667.7 | 1674.3 | 1631.9 | 1441.2 | 1147.1 | 902.1  | 765.6  |
| 42.5° | 1066.3 | 1193.5 | 1328.6 | 1480.9 | 1564.4 | 1541.8 | 1484.9 | 1234.5 | 957.7  | 777.5  | 667.6  |
| 45°   | 982.9  | 1103.4 | 1249.1 | 1384.2 | 1443.8 | 1390.8 | 1304.7 | 1038.5 | 804.0  | 668.9  | 584.2  |
| 47.5° | 902.1  | 1014.7 | 1159.0 | 1288.8 | 1299.4 | 1239.8 | 1137.8 | 870.3  | 696.7  | 588.1  | 519.2  |
| 50°   | 822.6  | 935.2  | 1070.3 | 1177.6 | 1167.0 | 1084.9 | 969.6  | 756.4  | 605.3  | 519.2  | 462.3  |
| 52.5° | 743.1  | 845.1  | 976.2  | 1061.0 | 1016.0 | 936.5  | 822.6  | 641.1  | 528.5  | 453.0  | 409.3  |
| 55°   | 663.6  | 759.0  | 871.6  | 941.8  | 870.3  | 778.9  | 698.1  | 549.7  | 458.3  | 397.4  | 364.3  |
| 57.5° | 597.4  | 672.9  | 776.2  | 818.6  | 732.5  | 661.0  | 590.8  | 472.9  | 397.4  | 353.7  | 315.3  |
| 60°   | 524.5  | 593.4  | 678.2  | 703.4  | 614.6  | 556.3  | 496.7  | 400.0  | 340.4  | 302.0  | 276.8  |
| 62.5° | 462.3  | 519.2  | 584.2  | 584.2  | 506.0  | 462.3  | 417.3  | 335.1  | 286.1  | 255.6  | 243.7  |
| 65°   | 401.4  | 442.4  | 488.8  | 483.5  | 417.3  | 378.8  | 343.1  | 276.8  | 239.8  | 218.6  | 206.6  |
| 67.5° | 341.7  | 373.5  | 404.0  | 385.5  | 337.8  | 304.7  | 271.5  | 223.9  | 198.7  | 184.1  | 168.2  |
| 70°   | 287.4  | 312.6  | 328.5  | 311.3  | 263.6  | 235.8  | 211.9  | 180.1  | 160.3  | 141.7  | 132.5  |
| 72.5° | 241.1  | 251.7  | 257.0  | 235.8  | 196.0  | 180.1  | 162.9  | 140.4  | 123.2  | 113.9  | 111.3  |
| 75°   | 188.1  | 197.4  | 193.4  | 177.5  | 144.4  | 132.5  | 119.2  | 103.3  | 99.3   | 94.0   | 91.4   |
| 77.5° | 147.0  | 147.0  | 140.4  | 125.8  | 103.3  | 94.0   | 88.7   | 80.8   | 76.8   | 75.5   | 72.9   |
| 80°   | 104.6  | 103.3  | 99.3   | 83.5   | 70.2   | 64.9   | 64.9   | 59.6   | 58.3   | 55.6   | 55.6   |
| 82.5° | 68.9   | 68.9   | 63.6   | 50.3   | 46.4   | 45.0   | 43.7   | 41.1   | 41.1   | 39.7   | 39.7   |
| 85°   | 41.1   | 38.4   | 31.8   | 27.8   | 26.5   | 26.5   | 25.2   | 23.8   | 25.2   | 23.8   | 23.8   |
| 87.5° | 18.5   | 14.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1973.7 | 1976.3 | 1980.3 | 1998.8 | 2001.5 | 2006.8 | 2004.1 | 2004.1 | 2005.5 | 2002.8 | 2004.1 |
| 5°    | 2058.4 | 2062.4 | 2082.3 | 2104.8 | 2110.1 | 2104.8 | 2111.4 | 2120.7 | 2120.7 | 2120.7 | 2118.1 |
| 7.5°  | 2137.9 | 2152.5 | 2175.0 | 2208.1 | 2214.7 | 2221.4 | 2233.3 | 2225.3 | 2228.0 | 2239.9 | 2235.9 |
| 10°   | 2214.7 | 2235.9 | 2261.1 | 2288.9 | 2303.5 | 2312.8 | 2318.1 | 2330.0 | 2357.8 | 2326.0 | 2337.9 |
| 12.5° | 2287.6 | 2318.1 | 2344.6 | 2375.0 | 2385.6 | 2397.5 | 2401.5 | 2412.1 | 2412.1 | 2410.8 | 2420.1 |
| 15°   | 2335.3 | 2363.1 | 2386.9 | 2406.8 | 2409.5 | 2406.8 | 2404.2 | 2405.5 | 2409.5 | 2393.6 | 2402.8 |
| 17.5° | 2345.9 | 2348.5 | 2356.5 | 2348.5 | 2349.9 | 2322.0 | 2306.1 | 2302.2 | 2265.1 | 2266.4 | 2296.9 |
| 20°   | 2294.2 | 2249.2 | 2237.3 | 2193.6 | 2167.1 | 2095.5 | 2092.9 | 2073.0 | 1994.9 | 2018.7 | 2013.4 |
| 22.5° | 2152.5 | 2075.7 | 1973.7 | 1923.3 | 1898.2 | 1822.7 | 1764.4 | 1723.3 | 1695.5 | 1667.7 | 1655.8 |
| 25°   | 1965.7 | 1841.2 | 1696.8 | 1597.5 | 1582.9 | 1512.7 | 1405.4 | 1355.1 | 1295.5 | 1276.9 | 1308.7 |
| 27.5° | 1724.6 | 1563.0 | 1400.1 | 1247.8 | 1220.0 | 1156.4 | 1102.1 | 1066.3 | 997.4  | 993.5  | 996.1  |
| 30°   | 1397.5 | 1234.5 | 1098.1 | 998.8  | 929.9  | 900.7  | 865.0  | 838.5  | 810.7  | 821.3  | 823.9  |
| 32.5° | 1148.4 | 993.5  | 866.3  | 813.3  | 781.5  | 763.0  | 732.5  | 715.3  | 703.4  | 699.4  | 698.1  |
| 35°   | 912.7  | 809.3  | 752.4  | 700.7  | 682.2  | 668.9  | 646.4  | 638.5  | 627.9  | 629.2  | 629.2  |
| 37.5° | 781.5  | 695.4  | 653.0  | 626.5  | 609.3  | 602.7  | 588.1  | 580.2  | 573.6  | 570.9  | 574.9  |
| 40°   | 674.2  | 614.6  | 588.1  | 564.3  | 549.7  | 547.1  | 539.1  | 529.8  | 521.9  | 523.2  | 527.2  |
| 42.5° | 596.1  | 561.6  | 529.8  | 511.3  | 500.7  | 496.7  | 490.1  | 483.5  | 483.5  | 479.5  | 478.2  |
| 45°   | 533.8  | 506.0  | 479.5  | 462.3  | 455.7  | 450.4  | 442.4  | 441.1  | 435.8  | 437.1  | 438.4  |
| 47.5° | 478.2  | 455.7  | 435.8  | 418.6  | 412.0  | 410.6  | 402.7  | 397.4  | 397.4  | 396.1  | 394.7  |
| 50°   | 427.8  | 405.3  | 388.1  | 378.8  | 369.6  | 366.9  | 365.6  | 364.3  | 361.6  | 361.6  | 362.9  |
| 52.5° | 386.8  | 364.3  | 351.0  | 343.1  | 337.8  | 335.1  | 335.1  | 333.8  | 333.8  | 333.8  | 332.5  |
| 55°   | 341.7  | 323.2  | 312.6  | 310.0  | 307.3  | 306.0  | 304.7  | 302.0  | 300.7  | 303.3  | 300.7  |
| 57.5° | 299.4  | 292.7  | 283.5  | 280.8  | 274.2  | 274.2  | 270.2  | 267.6  | 264.9  | 267.6  | 267.6  |
| 60°   | 266.2  | 257.0  | 251.7  | 243.7  | 238.4  | 233.1  | 226.5  | 225.2  | 222.5  | 221.2  | 219.9  |
| 62.5° | 231.8  | 223.9  | 210.6  | 198.7  | 190.7  | 185.4  | 182.8  | 181.5  | 181.5  | 180.1  | 180.1  |
| 65°   | 193.4  | 174.8  | 168.2  | 164.3  | 162.9  | 161.6  | 159.0  | 157.6  | 159.0  | 157.6  | 159.0  |
| 67.5° | 151.0  | 148.4  | 144.4  | 141.7  | 140.4  | 139.1  | 139.1  | 137.8  | 137.8  | 137.8  | 137.8  |
| 70°   | 131.1  | 124.5  | 123.2  | 120.5  | 120.5  | 119.2  | 119.2  | 119.2  | 119.2  | 117.9  | 120.5  |
| 72.5° | 108.6  | 104.6  | 103.3  | 102.0  | 102.0  | 102.0  | 100.7  | 100.7  | 100.7  | 99.3   | 100.7  |
| 75°   | 88.7   | 87.4   | 84.8   | 84.8   | 83.5   | 84.8   | 83.5   | 83.5   | 82.1   | 83.5   | 83.5   |
| 77.5° | 71.5   | 70.2   | 68.9   | 68.9   | 67.6   | 67.6   | 67.6   | 67.6   | 67.6   | 67.6   | 68.9   |
| 80°   | 54.3   | 53.0   | 51.7   | 53.0   | 51.7   | 53.0   | 51.7   | 51.7   | 53.0   | 51.7   | 51.7   |
| 82.5° | 39.7   | 38.4   | 38.4   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   |
| 85°   | 23.8   | 22.5   | 22.5   | 23.8   | 22.5   | 23.8   | 22.5   | 22.5   | 22.5   | 23.8   | 23.8   |
| 87.5° | 10.6   | 11.9   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 11.9   |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 2009.4 | 2000.2 | 1997.5 | 2000.2 | 1997.5 | 1998.8 | 1989.6 | 1955.1 | 1964.4 | 1949.8 | 1957.8 |
| 5°    | 2123.3 | 2115.4 | 2098.2 | 2095.5 | 2092.9 | 2090.2 | 2077.0 | 2046.5 | 2034.6 | 2014.7 | 2013.4 |
| 7.5°  | 2232.0 | 2232.0 | 2218.7 | 2209.4 | 2197.5 | 2188.3 | 2171.0 | 2126.0 | 2107.5 | 2083.6 | 2070.4 |
| 10°   | 2339.3 | 2304.8 | 2319.4 | 2310.1 | 2281.0 | 2275.7 | 2243.9 | 2217.4 | 2181.6 | 2157.8 | 2136.6 |
| 12.5° | 2416.1 | 2405.5 | 2392.2 | 2384.3 | 2376.3 | 2359.1 | 2337.9 | 2270.4 | 2251.8 | 2204.2 | 2180.3 |
| 15°   | 2413.4 | 2406.8 | 2410.8 | 2410.8 | 2408.1 | 2404.2 | 2386.9 | 2337.9 | 2306.1 | 2259.8 | 2218.7 |
| 17.5° | 2283.6 | 2300.8 | 2318.1 | 2330.0 | 2356.5 | 2368.4 | 2384.3 | 2355.2 | 2335.3 | 2295.5 | 2251.8 |
| 20°   | 2057.1 | 2099.5 | 2149.8 | 2160.4 | 2184.3 | 2254.5 | 2286.3 | 2311.4 | 2319.4 | 2306.1 | 2270.4 |
| 22.5° | 1741.9 | 1777.6 | 1899.5 | 1896.8 | 1931.3 | 2014.7 | 2107.5 | 2183.0 | 2242.6 | 2275.7 | 2262.4 |
| 25°   | 1364.3 | 1414.7 | 1479.6 | 1528.6 | 1641.2 | 1765.7 | 1880.9 | 2001.5 | 2104.8 | 2196.2 | 2218.7 |
| 27.5° | 1031.9 | 1098.1 | 1149.8 | 1214.7 | 1271.6 | 1418.7 | 1567.0 | 1755.1 | 1875.6 | 2049.2 | 2139.2 |
| 30°   | 834.5  | 865.0  | 916.6  | 947.1  | 974.9  | 1087.5 | 1255.7 | 1441.2 | 1653.1 | 1853.1 | 2008.1 |
| 32.5° | 712.6  | 733.8  | 772.2  | 785.5  | 814.6  | 890.1  | 996.1  | 1165.7 | 1384.2 | 1626.6 | 1830.6 |
| 35°   | 639.8  | 662.3  | 670.3  | 682.2  | 706.0  | 753.7  | 826.6  | 949.7  | 1147.1 | 1384.2 | 1627.9 |
| 37.5° | 577.5  | 589.5  | 612.0  | 619.9  | 627.9  | 663.6  | 712.6  | 798.7  | 929.9  | 1124.6 | 1394.8 |
| 40°   | 533.8  | 540.4  | 552.4  | 559.0  | 564.3  | 589.5  | 633.2  | 691.4  | 788.1  | 936.5  | 1185.5 |
| 42.5° | 487.5  | 495.4  | 503.4  | 511.3  | 517.9  | 537.8  | 564.3  | 619.9  | 684.8  | 797.4  | 977.6  |
| 45°   | 442.4  | 447.7  | 457.0  | 462.3  | 471.6  | 487.5  | 511.3  | 549.7  | 608.0  | 679.5  | 825.2  |
| 47.5° | 401.4  | 408.0  | 412.0  | 418.6  | 425.2  | 442.4  | 464.9  | 490.1  | 537.8  | 608.0  | 714.0  |
| 50°   | 364.3  | 372.2  | 377.5  | 378.8  | 384.1  | 400.0  | 418.6  | 446.4  | 476.9  | 531.2  | 623.9  |
| 52.5° | 337.8  | 339.1  | 343.1  | 348.4  | 347.0  | 356.3  | 373.5  | 394.7  | 426.5  | 470.2  | 537.8  |
| 55°   | 307.3  | 311.3  | 313.9  | 315.3  | 315.3  | 323.2  | 332.5  | 352.3  | 377.5  | 413.3  | 470.2  |
| 57.5° | 268.9  | 272.9  | 280.8  | 283.5  | 287.4  | 291.4  | 295.4  | 308.6  | 329.8  | 364.3  | 410.6  |
| 60°   | 229.2  | 231.8  | 239.8  | 245.1  | 247.7  | 258.3  | 263.6  | 274.2  | 286.1  | 311.3  | 355.0  |
| 62.5° | 184.1  | 186.8  | 190.7  | 196.0  | 201.3  | 217.2  | 230.5  | 241.1  | 250.4  | 267.6  | 303.3  |
| 65°   | 160.3  | 161.6  | 164.3  | 165.6  | 166.9  | 173.5  | 185.4  | 200.0  | 217.2  | 230.5  | 251.7  |
| 67.5° | 139.1  | 140.4  | 141.7  | 144.4  | 145.7  | 147.0  | 152.3  | 156.3  | 173.5  | 192.1  | 208.0  |
| 70°   | 119.2  | 121.9  | 123.2  | 123.2  | 124.5  | 127.2  | 129.8  | 135.1  | 140.4  | 149.7  | 169.6  |
| 72.5° | 100.7  | 102.0  | 104.6  | 104.6  | 104.6  | 107.3  | 109.9  | 112.6  | 115.2  | 120.5  | 128.5  |
| 75°   | 83.5   | 86.1   | 86.1   | 86.1   | 87.4   | 87.4   | 90.1   | 92.7   | 95.4   | 99.3   | 102.0  |
| 77.5° | 68.9   | 68.9   | 68.9   | 68.9   | 70.2   | 70.2   | 71.5   | 74.2   | 75.5   | 76.8   | 79.5   |
| 80°   | 51.7   | 53.0   | 53.0   | 53.0   | 54.3   | 54.3   | 54.3   | 57.0   | 58.3   | 58.3   | 60.9   |
| 82.5° | 38.4   | 38.4   | 38.4   | 39.7   | 38.4   | 39.7   | 39.7   | 41.1   | 39.7   | 41.1   | 42.4   |
| 85°   | 23.8   | 23.8   | 23.8   | 25.2   | 25.2   | 25.2   | 25.2   | 25.2   | 25.2   | 25.2   | 26.5   |
| 87.5° | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 13.2   | 11.9   | 11.9   |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1945.9 | 1939.2 | 1939.2 | 1935.3 | 1935.3 | 1914.1 | 1914.1 | 1920.7 | 1912.7 | 1903.5 | 1890.2 |
| 5°    | 1996.2 | 1981.6 | 1977.6 | 1972.3 | 1955.1 | 1928.6 | 1918.0 | 1914.1 | 1898.2 | 1878.3 | 1855.8 |
| 7.5°  | 2043.9 | 2020.0 | 2008.1 | 1996.2 | 1973.7 | 1936.6 | 1915.4 | 1900.8 | 1877.0 | 1846.5 | 1817.4 |
| 10°   | 2090.2 | 2059.8 | 2029.3 | 2014.7 | 1982.9 | 1936.6 | 1906.1 | 1882.3 | 1847.8 | 1806.8 | 1765.7 |
| 12.5° | 2132.6 | 2069.0 | 2063.7 | 2034.6 | 1988.2 | 1935.3 | 1888.9 | 1854.5 | 1810.7 | 1763.1 | 1715.4 |
| 15°   | 2169.7 | 2104.8 | 2073.0 | 2046.5 | 1985.6 | 1919.4 | 1870.3 | 1828.0 | 1769.7 | 1715.4 | 1657.1 |
| 17.5° | 2188.3 | 2118.1 | 2096.9 | 2053.1 | 1990.9 | 1904.8 | 1838.6 | 1786.9 | 1723.3 | 1658.4 | 1592.2 |
| 20°   | 2206.8 | 2124.7 | 2090.2 | 2059.8 | 1975.0 | 1877.0 | 1802.8 | 1743.2 | 1673.0 | 1596.2 | 1523.3 |
| 22.5° | 2216.1 | 2124.7 | 2083.6 | 2041.2 | 1959.1 | 1846.5 | 1759.1 | 1688.9 | 1606.8 | 1528.6 | 1441.2 |
| 25°   | 2200.2 | 2116.7 | 2067.7 | 2024.0 | 1931.3 | 1809.4 | 1708.7 | 1629.3 | 1541.8 | 1453.1 | 1364.3 |
| 27.5° | 2160.4 | 2098.2 | 2041.2 | 1996.2 | 1892.9 | 1761.7 | 1655.8 | 1565.7 | 1475.6 | 1376.3 | 1286.2 |
| 30°   | 2086.3 | 2058.4 | 2013.4 | 1963.1 | 1850.5 | 1719.3 | 1593.5 | 1500.8 | 1401.4 | 1302.1 | 1208.0 |
| 32.5° | 1971.0 | 1994.9 | 1965.7 | 1922.0 | 1800.1 | 1661.1 | 1527.3 | 1433.2 | 1324.6 | 1217.3 | 1131.2 |
| 35°   | 1830.6 | 1915.4 | 1899.5 | 1869.0 | 1747.2 | 1598.8 | 1465.0 | 1351.1 | 1242.5 | 1133.9 | 1047.8 |
| 37.5° | 1677.0 | 1805.4 | 1818.7 | 1800.1 | 1686.2 | 1535.2 | 1388.2 | 1276.9 | 1165.7 | 1055.7 | 968.3  |
| 40°   | 1466.3 | 1663.7 | 1706.1 | 1714.0 | 1622.6 | 1458.4 | 1304.7 | 1196.1 | 1086.2 | 978.9  | 872.9  |
| 42.5° | 1272.9 | 1522.0 | 1575.0 | 1608.1 | 1541.8 | 1382.9 | 1227.9 | 1107.4 | 998.8  | 902.1  | 796.1  |
| 45°   | 1091.5 | 1351.1 | 1437.2 | 1479.6 | 1450.4 | 1296.8 | 1136.5 | 1023.9 | 924.6  | 835.8  | 733.8  |
| 47.5° | 904.7  | 1165.7 | 1286.2 | 1353.8 | 1353.8 | 1209.4 | 1049.1 | 937.8  | 842.5  | 766.9  | 676.9  |
| 50°   | 780.2  | 997.4  | 1121.9 | 1210.7 | 1234.5 | 1120.6 | 969.6  | 861.0  | 770.9  | 688.8  | 619.9  |
| 52.5° | 665.0  | 859.7  | 963.0  | 1055.7 | 1124.6 | 1025.2 | 880.9  | 782.8  | 694.1  | 617.3  | 563.0  |
| 55°   | 574.9  | 720.6  | 814.6  | 916.6  | 993.5  | 928.6  | 794.8  | 699.4  | 622.6  | 559.0  | 512.6  |
| 57.5° | 488.8  | 615.9  | 692.8  | 782.8  | 865.0  | 816.0  | 708.7  | 626.5  | 559.0  | 503.4  | 462.3  |
| 60°   | 415.9  | 519.2  | 578.9  | 649.1  | 751.1  | 716.6  | 627.9  | 552.4  | 498.1  | 447.7  | 413.3  |
| 62.5° | 353.7  | 435.8  | 486.1  | 536.5  | 629.2  | 613.3  | 544.4  | 486.1  | 439.8  | 397.4  | 368.2  |
| 65°   | 290.1  | 357.6  | 397.4  | 441.1  | 515.3  | 521.9  | 466.3  | 425.2  | 382.8  | 345.7  | 319.2  |
| 67.5° | 234.5  | 287.4  | 323.2  | 360.3  | 419.9  | 438.4  | 400.0  | 365.6  | 329.8  | 299.4  | 275.5  |
| 70°   | 189.4  | 226.5  | 253.0  | 282.1  | 331.2  | 353.7  | 333.8  | 310.0  | 280.8  | 255.6  | 234.5  |
| 72.5° | 149.7  | 173.5  | 189.4  | 211.9  | 251.7  | 274.2  | 272.9  | 251.7  | 230.5  | 213.3  | 196.0  |
| 75°   | 109.9  | 128.5  | 141.7  | 156.3  | 188.1  | 209.3  | 214.6  | 205.3  | 184.1  | 170.9  | 157.6  |
| 77.5° | 83.5   | 94.0   | 100.7  | 111.3  | 133.8  | 152.3  | 160.3  | 157.6  | 143.1  | 132.5  | 123.2  |
| 80°   | 63.6   | 66.2   | 68.9   | 72.9   | 91.4   | 108.6  | 113.9  | 112.6  | 104.6  | 100.7  | 90.1   |
| 82.5° | 45.0   | 46.4   | 47.7   | 49.0   | 55.6   | 70.2   | 75.5   | 78.2   | 71.5   | 67.6   | 58.3   |
| 85°   | 26.5   | 27.8   | 27.8   | 30.5   | 31.8   | 35.8   | 45.0   | 45.0   | 43.7   | 38.4   | 37.1   |
| 87.5° | 13.2   | 13.2   | 11.9   | 11.9   | 13.2   | 14.6   | 17.2   | 19.9   | 17.2   | 15.9   | 14.6   |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1884.9 | 1886.2 | 1890.2 | 1878.3 | 1859.8 | 1851.8 | 1828.0 | 1824.0 | 1820.0 | 1820.0 | 1824.0 |
| 5°    | 1842.5 | 1837.2 | 1838.6 | 1816.0 | 1789.5 | 1773.7 | 1740.5 | 1745.8 | 1728.6 | 1718.0 | 1720.7 |
| 7.5°  | 1796.2 | 1781.6 | 1780.3 | 1751.1 | 1718.0 | 1688.9 | 1654.4 | 1646.5 | 1630.6 | 1612.0 | 1604.1 |
| 10°   | 1737.9 | 1727.3 | 1707.4 | 1674.3 | 1631.9 | 1608.1 | 1561.7 | 1533.9 | 1529.9 | 1502.1 | 1491.5 |
| 12.5° | 1678.3 | 1659.7 | 1639.9 | 1593.5 | 1545.8 | 1507.4 | 1473.0 | 1442.5 | 1421.3 | 1397.5 | 1381.6 |
| 15°   | 1609.4 | 1586.9 | 1564.4 | 1515.4 | 1459.7 | 1421.3 | 1369.6 | 1324.6 | 1262.4 | 1213.3 | 1185.5 |
| 17.5° | 1533.9 | 1508.7 | 1478.3 | 1424.0 | 1369.6 | 1316.7 | 1221.3 | 1168.3 | 1124.6 | 1095.5 | 1078.2 |
| 20°   | 1455.7 | 1427.9 | 1397.5 | 1343.2 | 1249.1 | 1156.4 | 1103.4 | 1062.3 | 1035.8 | 1006.7 | 985.5  |
| 22.5° | 1373.6 | 1344.5 | 1311.4 | 1226.6 | 1127.2 | 1062.3 | 1021.3 | 982.9  | 944.4  | 928.6  | 918.0  |
| 25°   | 1296.8 | 1270.3 | 1227.9 | 1112.7 | 1034.5 | 974.9  | 928.6  | 903.4  | 883.5  | 862.3  | 842.5  |
| 27.5° | 1217.3 | 1168.3 | 1108.7 | 1012.0 | 963.0  | 902.1  | 868.9  | 850.4  | 816.0  | 801.4  | 792.1  |
| 30°   | 1121.9 | 1067.6 | 1010.7 | 941.8  | 884.8  | 842.5  | 812.0  | 781.5  | 761.7  | 747.1  | 731.2  |
| 32.5° | 1025.2 | 973.6  | 937.8  | 866.3  | 823.9  | 780.2  | 751.1  | 732.5  | 703.4  | 694.1  | 687.5  |
| 35°   | 941.8  | 898.1  | 866.3  | 808.0  | 768.3  | 728.5  | 707.3  | 679.5  | 661.0  | 643.8  | 633.2  |
| 37.5° | 859.7  | 835.8  | 802.7  | 753.7  | 711.3  | 679.5  | 650.4  | 641.1  | 615.9  | 606.7  | 596.1  |
| 40°   | 802.7  | 766.9  | 739.1  | 696.7  | 661.0  | 626.5  | 608.0  | 586.8  | 569.6  | 555.0  | 551.0  |
| 42.5° | 733.8  | 707.3  | 691.4  | 645.1  | 608.0  | 588.1  | 565.6  | 541.8  | 528.5  | 516.6  | 502.0  |
| 45°   | 682.2  | 658.3  | 635.8  | 598.7  | 565.6  | 540.4  | 520.6  | 504.7  | 482.2  | 476.9  | 454.3  |
| 47.5° | 627.9  | 604.0  | 586.8  | 549.7  | 519.2  | 495.4  | 480.8  | 459.6  | 441.1  | 429.2  | 418.6  |
| 50°   | 573.6  | 553.7  | 537.8  | 506.0  | 479.5  | 454.3  | 434.5  | 413.3  | 405.3  | 385.5  | 378.8  |
| 52.5° | 521.9  | 508.7  | 491.4  | 461.0  | 434.5  | 413.3  | 392.1  | 374.9  | 362.9  | 352.3  | 344.4  |
| 55°   | 478.2  | 457.0  | 449.0  | 415.9  | 393.4  | 370.9  | 352.3  | 341.7  | 327.2  | 320.6  | 313.9  |
| 57.5° | 429.2  | 417.3  | 404.0  | 378.8  | 353.7  | 332.5  | 319.2  | 303.3  | 295.4  | 287.4  | 282.1  |
| 60°   | 386.8  | 369.6  | 359.0  | 337.8  | 315.3  | 295.4  | 283.5  | 271.5  | 260.9  | 254.3  | 243.7  |
| 62.5° | 337.8  | 324.5  | 317.9  | 295.4  | 276.8  | 258.3  | 247.7  | 235.8  | 227.8  | 215.9  | 202.7  |
| 65°   | 295.4  | 284.8  | 276.8  | 258.3  | 241.1  | 223.9  | 213.3  | 198.7  | 188.1  | 181.5  | 180.1  |
| 67.5° | 258.3  | 250.4  | 238.4  | 221.2  | 204.0  | 190.7  | 178.8  | 166.9  | 165.6  | 162.9  | 162.9  |
| 70°   | 217.2  | 209.3  | 202.7  | 184.1  | 169.6  | 155.0  | 152.3  | 148.4  | 144.4  | 143.1  | 140.4  |
| 72.5° | 181.5  | 174.8  | 166.9  | 151.0  | 136.4  | 132.5  | 129.8  | 127.2  | 123.2  | 121.9  | 120.5  |
| 75°   | 147.0  | 137.8  | 132.5  | 117.9  | 113.9  | 111.3  | 108.6  | 104.6  | 102.0  | 100.7  | 98.0   |
| 77.5° | 112.6  | 103.3  | 103.3  | 95.4   | 92.7   | 88.7   | 86.1   | 83.5   | 82.1   | 79.5   | 79.5   |
| 80°   | 79.5   | 79.5   | 76.8   | 72.9   | 68.9   | 67.6   | 63.6   | 62.3   | 60.9   | 62.3   | 59.6   |
| 82.5° | 58.3   | 53.0   | 53.0   | 50.3   | 47.7   | 46.4   | 43.7   | 43.7   | 42.4   | 42.4   | 42.4   |
| 85°   | 33.1   | 33.1   | 31.8   | 29.1   | 27.8   | 27.8   | 26.5   | 26.5   | 25.2   | 25.2   | 23.8   |
| 87.5° | 13.2   | 11.9   | 13.2   | 11.9   | 11.9   | 10.6   | 10.6   | 10.6   | 9.3    | 10.6   | 9.3    |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1824.0 | 1821.3 | 1813.4 | 1816.0 | 1812.1 | 1812.1 | 1809.4 | 1809.4 | 1809.4 | 1816.0 | 1812.1 |
| 5°    | 1724.6 | 1715.4 | 1706.1 | 1702.1 | 1698.1 | 1694.2 | 1694.2 | 1692.9 | 1704.8 | 1702.1 | 1712.7 |
| 7.5°  | 1601.5 | 1598.8 | 1580.3 | 1580.3 | 1573.6 | 1571.0 | 1577.6 | 1578.9 | 1580.3 | 1582.9 | 1589.5 |
| 10°   | 1491.5 | 1484.9 | 1458.4 | 1461.0 | 1457.1 | 1451.8 | 1455.7 | 1453.1 | 1462.4 | 1465.0 | 1462.4 |
| 12.5° | 1361.7 | 1349.8 | 1320.6 | 1306.1 | 1290.2 | 1278.2 | 1292.8 | 1282.2 | 1319.3 | 1329.9 | 1359.0 |
| 15°   | 1189.5 | 1167.0 | 1147.1 | 1147.1 | 1132.5 | 1121.9 | 1128.6 | 1140.5 | 1148.4 | 1160.4 | 1165.7 |
| 17.5° | 1074.3 | 1065.0 | 1049.1 | 1039.8 | 1035.8 | 1031.9 | 1031.9 | 1037.2 | 1054.4 | 1053.1 | 1063.7 |
| 20°   | 976.2  | 970.9  | 963.0  | 951.1  | 947.1  | 944.4  | 944.4  | 944.4  | 956.4  | 967.0  | 973.6  |
| 22.5° | 908.7  | 904.7  | 899.4  | 883.5  | 875.6  | 872.9  | 879.5  | 883.5  | 892.8  | 900.7  | 907.4  |
| 25°   | 841.1  | 831.9  | 822.6  | 817.3  | 813.3  | 813.3  | 816.0  | 817.3  | 821.3  | 825.2  | 833.2  |
| 27.5° | 785.5  | 778.9  | 765.6  | 751.1  | 751.1  | 747.1  | 749.7  | 752.4  | 761.7  | 774.9  | 781.5  |
| 30°   | 723.2  | 721.9  | 716.6  | 711.3  | 706.0  | 703.4  | 708.7  | 712.6  | 714.0  | 720.6  | 720.6  |
| 32.5° | 678.2  | 668.9  | 659.7  | 654.4  | 651.7  | 650.4  | 651.7  | 657.0  | 657.0  | 665.0  | 674.2  |
| 35°   | 633.2  | 627.9  | 618.6  | 609.3  | 606.7  | 600.0  | 605.3  | 610.6  | 619.9  | 623.9  | 627.9  |
| 37.5° | 584.2  | 577.5  | 573.6  | 570.9  | 565.6  | 566.9  | 563.0  | 570.9  | 578.9  | 577.5  | 580.2  |
| 40°   | 547.1  | 535.1  | 523.2  | 521.9  | 520.6  | 519.2  | 519.2  | 520.6  | 525.9  | 531.2  | 539.1  |
| 42.5° | 499.4  | 495.4  | 484.8  | 474.2  | 471.6  | 468.9  | 466.3  | 471.6  | 482.2  | 491.4  | 495.4  |
| 45°   | 450.4  | 445.1  | 442.4  | 434.5  | 429.2  | 427.8  | 425.2  | 431.8  | 441.1  | 445.1  | 447.7  |
| 47.5° | 405.3  | 404.0  | 396.1  | 397.4  | 393.4  | 394.7  | 393.4  | 397.4  | 397.4  | 401.4  | 404.0  |
| 50°   | 374.9  | 370.9  | 366.9  | 364.3  | 360.3  | 360.3  | 359.0  | 360.3  | 365.6  | 370.9  | 369.6  |
| 52.5° | 344.4  | 337.8  | 336.5  | 335.1  | 332.5  | 335.1  | 331.2  | 332.5  | 337.8  | 340.4  | 339.1  |
| 55°   | 308.6  | 307.3  | 304.7  | 302.0  | 300.7  | 299.4  | 299.4  | 299.4  | 304.7  | 308.6  | 310.0  |
| 57.5° | 280.8  | 274.2  | 268.9  | 268.9  | 263.6  | 262.3  | 264.9  | 266.2  | 270.2  | 272.9  | 275.5  |
| 60°   | 242.4  | 239.8  | 231.8  | 227.8  | 219.9  | 218.6  | 218.6  | 223.9  | 230.5  | 239.8  | 242.4  |
| 62.5° | 201.3  | 197.4  | 196.0  | 196.0  | 196.0  | 196.0  | 196.0  | 196.0  | 196.0  | 197.4  | 197.4  |
| 65°   | 178.8  | 180.1  | 178.8  | 177.5  | 178.8  | 178.8  | 177.5  | 177.5  | 177.5  | 178.8  | 180.1  |
| 67.5° | 160.3  | 159.0  | 160.3  | 159.0  | 157.6  | 157.6  | 156.3  | 157.6  | 159.0  | 160.3  | 160.3  |
| 70°   | 139.1  | 139.1  | 137.8  | 139.1  | 137.8  | 136.4  | 135.1  | 135.1  | 137.8  | 139.1  | 139.1  |
| 72.5° | 119.2  | 119.2  | 117.9  | 117.9  | 115.2  | 115.2  | 116.6  | 115.2  | 115.2  | 119.2  | 119.2  |
| 75°   | 99.3   | 98.0   | 96.7   | 96.7   | 95.4   | 95.4   | 95.4   | 94.0   | 96.7   | 96.7   | 98.0   |
| 77.5° | 78.2   | 78.2   | 78.2   | 76.8   | 76.8   | 75.5   | 75.5   | 76.8   | 76.8   | 76.8   | 78.2   |
| 80°   | 59.6   | 59.6   | 59.6   | 58.3   | 57.0   | 57.0   | 57.0   | 57.0   | 57.0   | 58.3   | 57.0   |
| 82.5° | 41.1   | 41.1   | 41.1   | 41.1   | 41.1   | 39.7   | 39.7   | 39.7   | 41.1   | 41.1   | 39.7   |
| 85°   | 25.2   | 23.8   | 25.2   | 25.2   | 23.8   | 25.2   | 23.8   | 23.8   | 22.5   | 22.5   | 23.8   |
| 87.5° | 10.6   | 9.3    | 7.9    | 7.9    | 9.3    | 7.9    | 7.9    | 7.9    | 9.3    | 7.9    | 7.9    |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1816.0 | 1822.7 | 1820.0 | 1805.4 | 1820.0 | 1824.0 | 1831.9 | 1839.9 | 1845.2 | 1853.1 | 1859.8 |
| 5°    | 1702.1 | 1715.4 | 1723.3 | 1715.4 | 1741.9 | 1745.8 | 1764.4 | 1775.0 | 1790.9 | 1804.1 | 1814.7 |
| 7.5°  | 1594.8 | 1605.4 | 1621.3 | 1624.0 | 1639.9 | 1658.4 | 1684.9 | 1711.4 | 1736.6 | 1749.8 | 1761.7 |
| 10°   | 1479.6 | 1498.1 | 1522.0 | 1516.7 | 1540.5 | 1569.7 | 1597.5 | 1639.9 | 1661.1 | 1684.9 | 1706.1 |
| 12.5° | 1364.3 | 1376.3 | 1408.1 | 1418.7 | 1453.1 | 1475.6 | 1514.0 | 1540.5 | 1593.5 | 1621.3 | 1639.9 |
| 15°   | 1163.0 | 1212.0 | 1251.8 | 1299.4 | 1344.5 | 1386.9 | 1421.3 | 1469.0 | 1515.4 | 1536.5 | 1567.0 |
| 17.5° | 1071.6 | 1094.1 | 1118.0 | 1141.8 | 1200.1 | 1275.6 | 1336.5 | 1388.2 | 1427.9 | 1455.7 | 1491.5 |
| 20°   | 976.2  | 998.8  | 1025.2 | 1047.8 | 1083.5 | 1137.8 | 1213.3 | 1302.1 | 1349.8 | 1378.9 | 1413.4 |
| 22.5° | 908.7  | 929.9  | 947.1  | 967.0  | 994.8  | 1034.5 | 1091.5 | 1201.4 | 1265.0 | 1300.8 | 1331.2 |
| 25°   | 835.8  | 862.3  | 880.9  | 895.4  | 918.0  | 961.7  | 1008.0 | 1070.3 | 1184.2 | 1212.0 | 1254.4 |
| 27.5° | 785.5  | 793.4  | 814.6  | 837.2  | 859.7  | 883.5  | 931.2  | 984.2  | 1061.0 | 1121.9 | 1173.6 |
| 30°   | 725.9  | 745.8  | 765.6  | 774.9  | 794.8  | 829.2  | 858.3  | 915.3  | 974.9  | 1022.6 | 1084.9 |
| 32.5° | 680.8  | 692.8  | 706.0  | 728.5  | 747.1  | 770.9  | 800.1  | 847.8  | 898.1  | 928.6  | 976.2  |
| 35°   | 630.5  | 638.5  | 666.3  | 675.6  | 694.1  | 717.9  | 747.1  | 784.2  | 838.5  | 862.3  | 896.8  |
| 37.5° | 582.8  | 601.4  | 609.3  | 630.5  | 647.7  | 671.6  | 692.8  | 735.2  | 770.9  | 798.7  | 830.5  |
| 40°   | 545.7  | 553.7  | 568.3  | 586.8  | 601.4  | 619.9  | 646.4  | 676.9  | 715.3  | 737.8  | 765.6  |
| 42.5° | 500.7  | 507.3  | 525.9  | 536.5  | 560.3  | 577.5  | 593.4  | 630.5  | 665.0  | 682.2  | 710.0  |
| 45°   | 451.7  | 467.6  | 479.5  | 500.7  | 513.9  | 535.1  | 555.0  | 581.5  | 613.3  | 633.2  | 649.1  |
| 47.5° | 409.3  | 425.2  | 437.1  | 457.0  | 478.2  | 487.5  | 508.7  | 536.5  | 565.6  | 581.5  | 604.0  |
| 50°   | 374.9  | 380.2  | 402.7  | 412.0  | 434.5  | 453.0  | 467.6  | 491.4  | 523.2  | 532.5  | 551.0  |
| 52.5° | 341.7  | 345.7  | 360.3  | 372.2  | 392.1  | 408.0  | 426.5  | 449.0  | 475.5  | 490.1  | 504.7  |
| 55°   | 312.6  | 315.3  | 321.9  | 335.1  | 348.4  | 368.2  | 385.5  | 406.7  | 429.2  | 445.1  | 458.3  |
| 57.5° | 279.5  | 284.8  | 290.1  | 298.0  | 311.3  | 329.8  | 348.4  | 368.2  | 386.8  | 397.4  | 414.6  |
| 60°   | 241.1  | 249.0  | 258.3  | 267.6  | 276.8  | 290.1  | 311.3  | 329.8  | 347.0  | 356.3  | 369.6  |
| 62.5° | 200.0  | 215.9  | 223.9  | 234.5  | 242.4  | 254.3  | 270.2  | 291.4  | 303.3  | 315.3  | 325.9  |
| 65°   | 180.1  | 181.5  | 182.8  | 193.4  | 208.0  | 219.9  | 234.5  | 250.4  | 268.9  | 276.8  | 284.8  |
| 67.5° | 160.3  | 161.6  | 164.3  | 165.6  | 170.9  | 184.1  | 200.0  | 217.2  | 231.8  | 237.1  | 245.1  |
| 70°   | 140.4  | 140.4  | 145.7  | 147.0  | 148.4  | 149.7  | 162.9  | 180.1  | 193.4  | 200.0  | 209.3  |
| 72.5° | 119.2  | 120.5  | 123.2  | 124.5  | 127.2  | 129.8  | 133.8  | 143.1  | 159.0  | 165.6  | 176.2  |
| 75°   | 98.0   | 99.3   | 100.7  | 102.0  | 106.0  | 107.3  | 111.3  | 116.6  | 123.2  | 131.1  | 137.8  |
| 77.5° | 78.2   | 78.2   | 79.5   | 82.1   | 84.8   | 86.1   | 90.1   | 92.7   | 95.4   | 99.3   | 104.6  |
| 80°   | 58.3   | 59.6   | 59.6   | 62.3   | 62.3   | 63.6   | 64.9   | 68.9   | 71.5   | 74.2   | 76.8   |
| 82.5° | 39.7   | 42.4   | 42.4   | 42.4   | 43.7   | 45.0   | 46.4   | 46.4   | 49.0   | 50.3   | 54.3   |
| 85°   | 23.8   | 25.2   | 25.2   | 25.2   | 23.8   | 26.5   | 26.5   | 27.8   | 27.8   | 27.8   | 29.1   |
| 87.5° | 9.3    | 7.9    | 9.3    | 9.3    | 9.3    | 10.6   | 9.3    | 9.3    | 10.6   | 11.9   | 11.9   |
| 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: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1906.1 | 1906.1 | 1906.1 | 1906.1 |
| 2.5°  | 1871.7 | 1867.7 | 1891.5 | 1918.0 |
| 5°    | 1833.3 | 1839.9 | 1870.3 | 1907.4 |
| 7.5°  | 1793.5 | 1808.1 | 1843.9 | 1892.9 |
| 10°   | 1737.9 | 1764.4 | 1818.7 | 1869.0 |
| 12.5° | 1683.6 | 1719.3 | 1771.0 | 1830.6 |
| 15°   | 1622.6 | 1662.4 | 1726.0 | 1797.5 |
| 17.5° | 1555.1 | 1600.1 | 1674.3 | 1752.5 |
| 20°   | 1483.6 | 1543.2 | 1621.3 | 1706.1 |
| 22.5° | 1404.1 | 1475.6 | 1556.4 | 1650.5 |
| 25°   | 1327.3 | 1405.4 | 1486.2 | 1594.8 |
| 27.5° | 1251.8 | 1328.6 | 1418.7 | 1528.6 |
| 30°   | 1176.3 | 1246.5 | 1343.2 | 1461.0 |
| 32.5° | 1095.5 | 1168.3 | 1270.3 | 1390.8 |
| 35°   | 1021.3 | 1094.1 | 1189.5 | 1308.7 |
| 37.5° | 941.8  | 1019.9 | 1111.3 | 1234.5 |
| 40°   | 849.1  | 940.5  | 1029.2 | 1147.1 |
| 42.5° | 772.2  | 868.9  | 955.0  | 1066.3 |
| 45°   | 711.3  | 802.7  | 874.2  | 982.9  |
| 47.5° | 654.4  | 728.5  | 801.4  | 902.1  |
| 50°   | 600.0  | 657.0  | 732.5  | 822.6  |
| 52.5° | 544.4  | 593.4  | 658.3  | 743.1  |
| 55°   | 494.1  | 540.4  | 598.7  | 663.6  |
| 57.5° | 447.7  | 480.8  | 539.1  | 597.4  |
| 60°   | 396.1  | 430.5  | 475.5  | 524.5  |
| 62.5° | 352.3  | 378.8  | 421.2  | 462.3  |
| 65°   | 306.0  | 331.2  | 362.9  | 401.4  |
| 67.5° | 263.6  | 286.1  | 311.3  | 341.7  |
| 70°   | 225.2  | 242.4  | 260.9  | 287.4  |
| 72.5° | 184.1  | 202.7  | 219.9  | 241.1  |
| 75°   | 151.0  | 159.0  | 173.5  | 188.1  |
| 77.5° | 116.6  | 127.2  | 135.1  | 147.0  |
| 80°   | 83.5   | 92.7   | 95.4   | 104.6  |
| 82.5° | 55.6   | 60.9   | 66.2   | 68.9   |
| 85°   | 31.8   | 34.4   | 39.7   | 41.1   |
| 87.5° | 11.9   | 13.2   | 15.9   | 18.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P997768

CATALOG NUMBER: SA2XXRDP-B865DB2750-4F0-XX-W2A-A\_3500K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 22.87            | 24.32 | 23.24 | 24.64 | 24.95 | 17.29          | 18.74 | 17.65 | 19.05 | 19.37 |
|                 | 3H   | 24.20            | 25.50 | 24.58 | 25.83 | 26.19 | 18.42          | 19.71 | 18.79 | 20.04 | 20.41 |
|                 | 4H   | 24.63            | 25.84 | 25.03 | 26.19 | 26.57 | 18.88          | 20.09 | 19.28 | 20.44 | 20.82 |
|                 | 6H   | 24.90            | 26.02 | 25.32 | 26.39 | 26.78 | 19.25          | 20.37 | 19.67 | 20.74 | 21.13 |
|                 | 8H   | 24.97            | 26.04 | 25.40 | 26.43 | 26.83 | 19.38          | 20.44 | 19.80 | 20.83 | 21.24 |
|                 | 12H  | 25.01            | 26.03 | 25.44 | 26.42 | 26.85 | 19.46          | 20.48 | 19.89 | 20.86 | 21.29 |
| 4H              | 2H   | 22.85            | 24.07 | 23.25 | 24.42 | 24.80 | 17.97          | 19.19 | 18.37 | 19.54 | 19.92 |
|                 | 3H   | 24.29            | 25.30 | 24.71 | 25.70 | 26.10 | 19.26          | 20.27 | 19.67 | 20.67 | 21.07 |
|                 | 4H   | 24.80            | 25.70 | 25.23 | 26.12 | 26.56 | 19.82          | 20.72 | 20.25 | 21.14 | 21.58 |
|                 | 6H   | 25.18            | 25.96 | 25.63 | 26.40 | 26.87 | 20.30          | 21.09 | 20.76 | 21.53 | 21.99 |
|                 | 8H   | 25.29            | 26.02 | 25.75 | 26.46 | 26.93 | 20.47          | 21.20 | 20.93 | 21.64 | 22.11 |
|                 | 12H  | 25.36            | 26.01 | 25.84 | 26.49 | 26.97 | 20.59          | 21.24 | 21.07 | 21.72 | 22.19 |
| 8H              | 4H   | 24.79            | 25.52 | 25.25 | 25.96 | 26.43 | 20.14          | 20.87 | 20.60 | 21.32 | 21.78 |
|                 | 6H   | 25.21            | 25.81 | 25.70 | 26.30 | 26.78 | 20.72          | 21.33 | 21.22 | 21.82 | 22.30 |
|                 | 8H   | 25.35            | 25.89 | 25.87 | 26.40 | 26.89 | 20.95          | 21.49 | 21.47 | 22.01 | 22.49 |
|                 | 12H  | 25.46            | 25.94 | 25.98 | 26.43 | 27.00 | 21.14          | 21.62 | 21.65 | 22.11 | 22.68 |
| 12H             | 4H   | 24.76            | 25.42 | 25.25 | 25.90 | 26.37 | 20.17          | 20.83 | 20.66 | 21.31 | 21.78 |
|                 | 6H   | 25.18            | 25.72 | 25.70 | 26.23 | 26.72 | 20.78          | 21.32 | 21.30 | 21.84 | 22.33 |
|                 | 8H   | 25.36            | 25.83 | 25.87 | 26.33 | 26.89 | 21.07          | 21.54 | 21.58 | 22.04 | 22.60 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

14 of 14