

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: P1029192

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1029192  
REPORT IS A COMBINATION OF REPORTS P985130 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K  
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

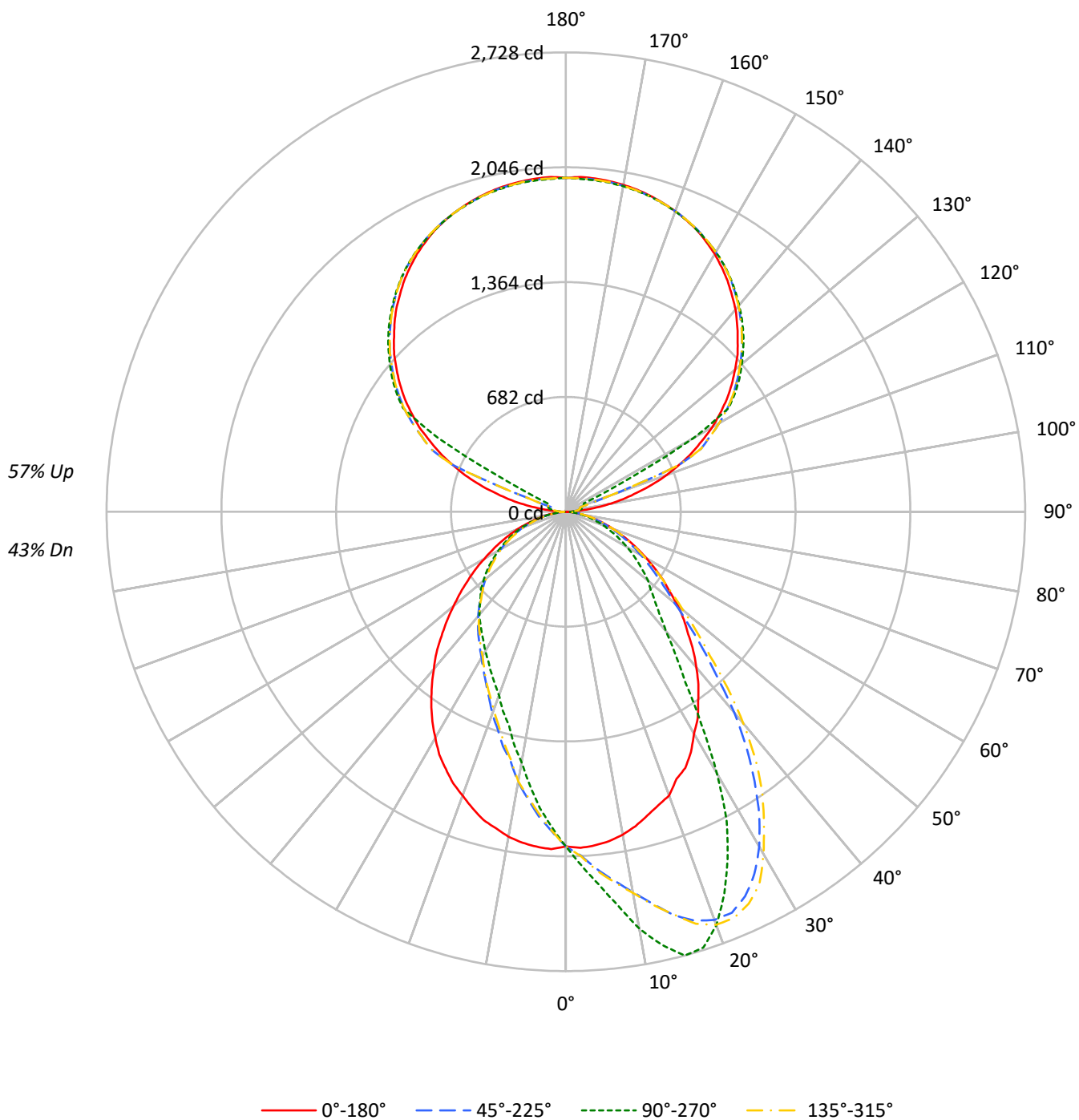
Lumens per Lamp: N/A  
Luminaire Lumens: 10201.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 113.5  
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: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |    |    |
| 1   | 97  | 93  | 89  | 85  | 88 | 85 | 82 | 79 | 70 | 68 | 66 | 57 | 55 | 54 | 45 | 44 | 43 | 37 |    |    |
| 2   | 88  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 62 | 58 | 55 | 50 | 48 | 46 | 40 | 38 | 37 | 32 |    |    |
| 3   | 81  | 72  | 65  | 59  | 74 | 66 | 60 | 55 | 55 | 51 | 47 | 45 | 42 | 39 | 36 | 33 | 32 | 27 |    |    |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 49 | 44 | 40 | 40 | 37 | 34 | 32 | 30 | 28 | 24 |    |    |
| 5   | 68  | 57  | 49  | 43  | 62 | 53 | 46 | 41 | 44 | 39 | 35 | 36 | 33 | 30 | 29 | 26 | 24 | 21 |    |    |
| 6   | 63  | 51  | 43  | 38  | 57 | 47 | 40 | 35 | 40 | 35 | 31 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |    |    |
| 7   | 58  | 46  | 39  | 33  | 53 | 43 | 36 | 31 | 36 | 31 | 27 | 30 | 26 | 23 | 24 | 22 | 19 | 17 |    |    |
| 8   | 54  | 42  | 35  | 29  | 49 | 39 | 32 | 28 | 33 | 28 | 24 | 28 | 24 | 21 | 22 | 20 | 17 | 15 |    |    |
| 9   | 50  | 39  | 31  | 26  | 46 | 36 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 21 | 18 | 16 | 14 |    |    |
| 10  | 47  | 35  | 28  | 24  | 43 | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 19 | 17 | 15 | 13 |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 31453 | 31453 | 31453 | 31453 |
| 5°  | 31529 | 33537 | 31650 | 26682 |
| 10° | 31163 | 36611 | 31358 | 21997 |
| 15° | 30407 | 38616 | 30830 | 18529 |
| 20° | 29933 | 36257 | 29933 | 16106 |
| 25° | 28978 | 31149 | 29111 | 14402 |
| 30° | 27409 | 24486 | 27932 | 13045 |
| 35° | 26018 | 16932 | 26453 | 11936 |
| 40° | 24420 | 12783 | 24698 | 11051 |
| 45° | 22449 | 10505 | 22816 | 10096 |
| 50° | 20745 | 9220  | 20781 | 9242  |
| 55° | 18802 | 7857  | 18924 | 8315  |
| 60° | 16732 | 6563  | 16963 | 7257  |
| 65° | 14877 | 5338  | 15148 | 6198  |
| 70° | 13031 | 4187  | 13360 | 4999  |
| 75° | 10936 | 3039  | 11361 | 3625  |
| 80° | 8535  | 1926  | 9141  | 2151  |
| 85° | 5608  | 969   | 6046  | 717   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32514 cd/sqm

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 189.3   | 1.9       |
| 10°-20°   | 550.9   | 5.4       |
| 20°-30°   | 799.5   | 7.8       |
| 30°-40°   | 842.8   | 8.3       |
| 40°-50°   | 745.8   | 7.3       |
| 50°-60°   | 595.5   | 5.8       |
| 60°-70°   | 404.5   | 4.0       |
| 70°-80°   | 207.0   | 2.0       |
| 80°-90°   | 52.4    | 0.5       |
| 90°-100°  | 65.4    | 0.6       |
| 100°-110° | 243.8   | 2.4       |
| 110°-120° | 646.5   | 6.3       |
| 120°-130° | 1072.2  | 10.5      |
| 130°-140° | 1138.9  | 11.2      |
| 140°-150° | 1058.5  | 10.4      |
| 150°-160° | 851.0   | 8.3       |
| 160°-170° | 548.4   | 5.4       |
| 170°-180° | 188.7   | 1.9       |
| 0°-30°    | 1539.6  | 15.1      |
| 0°-40°    | 2382.4  | 23.4      |
| 0°-60°    | 3723.7  | 36.5      |
| 0°-90°    | 4387.5  | 43.0      |
| 90°-120°  | 955.6   | 9.4       |
| 90°-150°  | 4225.4  | 41.4      |
| 90°-180°  | 5813.0  | 57.0      |
| 0°-180°   | 10201.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1987 | 1987 | 1987 | 1987 | 1987 |      |
| 5°   | 1989 | 2219 | 1996 | 1766 | 1989 | 189  |
| 15°  | 1868 | 2728 | 1894 | 1309 | 1868 | 528  |
| 25°  | 1678 | 2273 | 1686 | 1051 | 1678 | 767  |
| 35°  | 1370 | 1237 | 1393 | 872  | 1370 | 857  |
| 45°  | 1028 | 745  | 1045 | 716  | 1028 | 797  |
| 55°  | 706  | 524  | 710  | 554  | 706  | 630  |
| 65°  | 418  | 322  | 426  | 374  | 418  | 416  |
| 75°  | 196  | 159  | 203  | 189  | 196  | 210  |
| 85°  | 40   | 41   | 43   | 30   | 40   | 46   |
| 90°  | 1    | 39   | 1    | 39   | 1    | 8    |
| 95°  | 93   | 62   | 93   | 62   | 93   | 110  |
| 105° | 436  | 109  | 436  | 109  | 436  | 466  |
| 115° | 825  | 118  | 825  | 118  | 825  | 812  |
| 125° | 1167 | 1227 | 1167 | 1227 | 1167 | 1040 |
| 135° | 1444 | 1491 | 1444 | 1491 | 1444 | 1115 |
| 145° | 1674 | 1700 | 1674 | 1700 | 1674 | 1047 |
| 155° | 1844 | 1845 | 1844 | 1845 | 1844 | 850  |
| 165° | 1943 | 1938 | 1943 | 1938 | 1943 | 549  |
| 175° | 1987 | 1976 | 1987 | 1976 | 1987 | 189  |
| 180° | 1983 | 1983 | 1983 | 1983 | 1983 |      |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1997.7 | 2002.3 | 2009.9 | 2011.5 | 2026.7 | 2039.0 | 2052.7 | 2052.7 | 2057.3 | 2055.8 | 2043.5 |
| 5°     | 1988.6 | 2002.3 | 2022.2 | 2039.0 | 2066.5 | 2078.7 | 2097.0 | 2110.7 | 2123.0 | 2132.1 | 2130.6 |
| 7.5°   | 1973.3 | 1997.7 | 2026.7 | 2058.8 | 2095.5 | 2116.9 | 2142.8 | 2167.3 | 2184.1 | 2199.3 | 2210.0 |
| 10°    | 1947.3 | 1988.6 | 2028.3 | 2071.0 | 2118.4 | 2147.4 | 2177.9 | 2210.0 | 2236.0 | 2265.0 | 2292.5 |
| 12.5°  | 1912.2 | 1971.8 | 2020.6 | 2077.1 | 2135.2 | 2167.3 | 2216.1 | 2240.6 | 2291.0 | 2364.3 | 2384.1 |
| 15°    | 1867.9 | 1948.9 | 1994.7 | 2066.5 | 2142.8 | 2168.8 | 2236.0 | 2275.7 | 2379.6 | 2425.4 | 2480.4 |
| 17.5°  | 1826.7 | 1916.8 | 1977.9 | 2060.3 | 2135.2 | 2185.6 | 2251.3 | 2332.2 | 2419.3 | 2484.9 | 2546.0 |
| 20°    | 1793.1 | 1880.1 | 1953.4 | 2045.1 | 2139.8 | 2203.9 | 2272.6 | 2370.4 | 2465.1 | 2532.3 | 2579.6 |
| 22.5°  | 1716.7 | 1828.2 | 1913.7 | 2016.1 | 2130.6 | 2219.2 | 2284.9 | 2391.8 | 2494.1 | 2535.3 | 2576.6 |
| 25°    | 1678.5 | 1774.7 | 1874.0 | 1990.1 | 2124.5 | 2229.9 | 2286.4 | 2405.5 | 2495.6 | 2510.9 | 2520.1 |
| 27.5°  | 1608.3 | 1716.7 | 1832.8 | 1965.7 | 2123.0 | 2211.5 | 2283.3 | 2391.8 | 2463.6 | 2452.9 | 2425.4 |
| 30°    | 1521.2 | 1654.1 | 1782.4 | 1925.9 | 2101.6 | 2197.8 | 2265.0 | 2364.3 | 2400.9 | 2346.0 | 2297.1 |
| 32.5°  | 1457.1 | 1582.3 | 1724.3 | 1890.8 | 2077.1 | 2168.8 | 2234.5 | 2312.4 | 2320.0 | 2220.7 | 2138.2 |
| 35°    | 1370.0 | 1509.0 | 1669.4 | 1845.0 | 2035.9 | 2118.4 | 2179.5 | 2226.8 | 2190.2 | 2051.2 | 1953.4 |
| 37.5°  | 1292.1 | 1429.6 | 1600.6 | 1779.3 | 1979.4 | 2060.3 | 2109.2 | 2116.9 | 2026.7 | 1904.6 | 1761.0 |
| 40°    | 1206.6 | 1348.6 | 1527.3 | 1715.2 | 1916.8 | 1987.0 | 2017.6 | 1994.7 | 1864.8 | 1722.8 | 1556.3 |
| 42.5°  | 1121.0 | 1261.6 | 1454.0 | 1646.4 | 1837.4 | 1896.9 | 1909.1 | 1846.5 | 1687.7 | 1521.2 | 1328.8 |
| 45°    | 1027.9 | 1174.5 | 1366.9 | 1560.9 | 1745.7 | 1779.3 | 1780.8 | 1690.7 | 1502.9 | 1328.8 | 1150.1 |
| 47.5°  | 951.5  | 1087.4 | 1278.4 | 1472.3 | 1628.1 | 1651.0 | 1641.9 | 1538.0 | 1333.3 | 1137.8 | 982.1  |
| 50°    | 867.5  | 997.3  | 1186.7 | 1377.6 | 1510.5 | 1516.6 | 1493.7 | 1345.6 | 1145.5 | 966.8  | 843.1  |
| 52.5°  | 777.4  | 908.8  | 1082.9 | 1266.1 | 1385.3 | 1376.1 | 1331.8 | 1173.0 | 985.1  | 837.0  | 742.3  |
| 55°    | 705.6  | 821.7  | 985.1  | 1163.8 | 1247.8 | 1221.8 | 1173.0 | 1011.1 | 862.9  | 737.7  | 655.2  |
| 57.5°  | 626.2  | 728.5  | 888.9  | 1044.7 | 1093.6 | 1069.1 | 1020.2 | 869.0  | 731.6  | 636.9  | 581.9  |
| 60°    | 551.4  | 644.5  | 785.0  | 914.9  | 953.0  | 927.1  | 870.6  | 734.6  | 635.4  | 555.9  | 514.7  |
| 62.5°  | 482.6  | 563.6  | 681.2  | 800.3  | 815.6  | 789.6  | 740.7  | 630.8  | 545.3  | 482.6  | 452.1  |
| 65°    | 418.5  | 494.8  | 589.5  | 679.7  | 693.4  | 665.9  | 615.5  | 536.1  | 464.3  | 424.6  | 395.6  |
| 67.5°  | 355.9  | 417.0  | 501.0  | 566.6  | 574.3  | 548.3  | 507.1  | 442.9  | 398.6  | 355.9  | 334.5  |
| 70°    | 300.9  | 346.7  | 412.4  | 465.8  | 468.9  | 444.4  | 423.1  | 365.0  | 331.4  | 300.9  | 284.1  |
| 72.5°  | 247.4  | 279.5  | 329.9  | 369.6  | 371.1  | 355.9  | 336.0  | 299.4  | 270.3  | 249.0  | 232.2  |
| 75°    | 195.5  | 223.0  | 253.5  | 288.7  | 287.1  | 274.9  | 259.6  | 236.7  | 212.3  | 198.6  | 190.9  |
| 77.5°  | 149.7  | 166.5  | 190.9  | 213.8  | 213.8  | 207.7  | 198.6  | 181.8  | 166.5  | 152.7  | 145.1  |
| 80°    | 106.9  | 117.6  | 137.5  | 145.1  | 148.1  | 146.6  | 139.0  | 126.8  | 120.7  | 110.0  | 106.9  |
| 82.5°  | 68.7   | 76.4   | 85.5   | 93.2   | 97.7   | 94.7   | 93.2   | 87.1   | 77.9   | 74.8   | 71.8   |
| 85°    | 39.7   | 42.8   | 47.3   | 51.9   | 53.5   | 51.9   | 55.0   | 50.4   | 45.8   | 45.8   | 44.3   |
| 87.5°  | 16.8   | 18.3   | 21.4   | 21.4   | 22.9   | 22.9   | 21.4   | 22.9   | 22.9   | 21.4   | 19.9   |
| 90°    | 1.4    | 4.9    | 8.4    | 11.9   | 15.4   | 17.2   | 18.5   | 21.0   | 23.6   | 26.1   | 28.7   |
| 92.5°  | 35.9   | 34.6   | 33.3   | 32.0   | 30.7   | 30.1   | 30.6   | 31.5   | 32.5   | 33.4   | 34.4   |
| 95°    | 93.3   | 82.8   | 72.2   | 61.7   | 51.2   | 45.9   | 47.0   | 49.3   | 51.5   | 53.8   | 56.0   |
| 97.5°  | 167.9  | 141.7  | 115.6  | 89.4   | 63.3   | 50.2   | 52.8   | 57.9   | 63.0   | 68.1   | 73.2   |
| 100°   | 254.0  | 210.3  | 166.6  | 122.9  | 79.2   | 57.4   | 60.1   | 65.5   | 71.0   | 76.4   | 81.8   |
| 102.5° | 348.7  | 348.1  | 347.4  | 346.8  | 346.1  | 345.8  | 316.8  | 258.8  | 200.7  | 142.7  | 84.7   |
| 105°   | 436.2  | 445.8  | 455.4  | 464.9  | 474.5  | 479.3  | 435.8  | 348.7  | 261.6  | 174.6  | 87.5   |
| 107.5° | 538.1  | 546.1  | 554.1  | 562.0  | 570.0  | 574.0  | 520.3  | 412.8  | 305.3  | 197.9  | 90.4   |
| 110°   | 635.7  | 642.4  | 649.1  | 655.8  | 662.5  | 665.8  | 619.7  | 527.6  | 435.4  | 343.3  | 251.1  |



TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 727.5  | 733.2  | 739.0  | 744.7  | 750.4  | 753.3  | 750.6  | 745.2  | 739.7  | 734.3  | 728.9  |
| 115°   | 825.1  | 830.5  | 835.9  | 841.4  | 846.8  | 849.5  | 853.5  | 861.4  | 869.4  | 877.3  | 885.3  |
| 117.5° | 909.7  | 916.1  | 922.5  | 928.8  | 935.2  | 938.4  | 941.1  | 946.5  | 952.0  | 957.4  | 962.8  |
| 120°   | 1004.4 | 1009.2 | 1014.0 | 1018.7 | 1023.5 | 1025.9 | 1028.8 | 1034.5 | 1040.3 | 1046.0 | 1051.8 |
| 122.5° | 1084.8 | 1089.9 | 1095.0 | 1100.1 | 1105.2 | 1107.7 | 1110.9 | 1117.3 | 1123.6 | 1130.0 | 1136.4 |
| 125°   | 1166.6 | 1170.7 | 1174.9 | 1179.0 | 1183.1 | 1185.2 | 1188.2 | 1194.3 | 1200.4 | 1206.4 | 1212.5 |
| 127.5° | 1241.2 | 1245.7 | 1250.1 | 1254.6 | 1259.1 | 1261.3 | 1263.7 | 1268.5 | 1273.2 | 1278.0 | 1282.8 |
| 130°   | 1311.5 | 1316.6 | 1321.7 | 1326.8 | 1331.9 | 1334.4 | 1336.2 | 1339.7 | 1343.2 | 1346.7 | 1350.2 |
| 132.5° | 1383.2 | 1387.4 | 1391.5 | 1395.7 | 1399.8 | 1401.9 | 1403.7 | 1407.2 | 1410.7 | 1414.2 | 1417.7 |
| 135°   | 1443.5 | 1448.6 | 1453.7 | 1458.8 | 1463.9 | 1466.5 | 1467.9 | 1470.8 | 1473.7 | 1476.5 | 1479.4 |
| 137.5° | 1506.6 | 1510.4 | 1514.3 | 1518.1 | 1522.0 | 1523.9 | 1525.5 | 1528.7 | 1531.8 | 1535.0 | 1538.2 |
| 140°   | 1568.3 | 1570.9 | 1573.4 | 1576.0 | 1578.5 | 1579.8 | 1581.6 | 1585.1 | 1588.6 | 1592.1 | 1595.6 |
| 142.5° | 1620.0 | 1622.2 | 1624.4 | 1626.7 | 1628.9 | 1630.0 | 1632.1 | 1636.2 | 1640.4 | 1644.5 | 1648.7 |
| 145°   | 1674.5 | 1674.2 | 1673.9 | 1673.6 | 1673.3 | 1673.1 | 1675.8 | 1681.2 | 1686.7 | 1692.1 | 1697.5 |
| 147.5° | 1721.9 | 1720.9 | 1720.0 | 1719.0 | 1718.1 | 1717.6 | 1720.3 | 1725.7 | 1731.2 | 1736.6 | 1742.0 |
| 150°   | 1767.8 | 1765.6 | 1763.3 | 1761.1 | 1758.8 | 1757.7 | 1760.3 | 1765.4 | 1770.5 | 1775.6 | 1780.7 |
| 152.5° | 1806.5 | 1803.9 | 1801.4 | 1798.8 | 1796.3 | 1795.0 | 1797.4 | 1802.2 | 1807.0 | 1811.8 | 1816.6 |
| 155°   | 1843.8 | 1840.9 | 1838.1 | 1835.2 | 1832.3 | 1830.9 | 1832.8 | 1836.6 | 1840.5 | 1844.3 | 1848.1 |
| 157.5° | 1874.0 | 1871.4 | 1868.9 | 1866.3 | 1863.8 | 1862.5 | 1863.9 | 1866.8 | 1869.7 | 1872.5 | 1875.4 |
| 160°   | 1899.8 | 1897.9 | 1896.0 | 1894.1 | 1892.2 | 1891.2 | 1892.2 | 1894.1 | 1896.0 | 1897.9 | 1899.8 |
| 162.5° | 1922.8 | 1920.9 | 1918.9 | 1917.0 | 1915.1 | 1914.1 | 1914.9 | 1916.5 | 1918.1 | 1919.7 | 1921.3 |
| 165°   | 1942.8 | 1940.9 | 1939.0 | 1937.1 | 1935.2 | 1934.2 | 1934.7 | 1935.6 | 1936.6 | 1937.5 | 1938.5 |
| 167.5° | 1958.6 | 1956.7 | 1954.8 | 1952.9 | 1951.0 | 1950.0 | 1950.5 | 1951.4 | 1952.4 | 1953.3 | 1954.3 |
| 170°   | 1971.5 | 1969.6 | 1967.7 | 1965.8 | 1963.9 | 1962.9 | 1963.2 | 1963.9 | 1964.5 | 1965.2 | 1965.8 |
| 172.5° | 1980.1 | 1978.2 | 1976.3 | 1974.4 | 1972.5 | 1971.5 | 1971.8 | 1972.5 | 1973.1 | 1973.8 | 1974.4 |
| 175°   | 1987.3 | 1985.1 | 1982.9 | 1980.6 | 1978.4 | 1977.3 | 1977.6 | 1978.2 | 1978.9 | 1979.5 | 1980.1 |
| 177.5° | 1990.2 | 1988.0 | 1985.7 | 1983.5 | 1981.2 | 1980.1 | 1980.3 | 1980.6 | 1980.9 | 1981.3 | 1981.6 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2064.9 | 2066.5 | 2069.5 | 2084.8 | 2092.4 | 2093.9 | 2087.8 | 2101.6 | 2106.2 | 2101.6 | 2098.5 |
| 5°     | 2162.7 | 2171.8 | 2190.2 | 2210.0 | 2208.5 | 2210.0 | 2219.2 | 2228.3 | 2231.4 | 2219.2 | 2223.8 |
| 7.5°   | 2248.2 | 2266.5 | 2286.4 | 2316.9 | 2316.9 | 2332.2 | 2338.3 | 2346.0 | 2364.3 | 2355.1 | 2352.1 |
| 10°    | 2346.0 | 2370.4 | 2407.0 | 2455.9 | 2457.4 | 2472.7 | 2488.0 | 2512.4 | 2520.1 | 2514.0 | 2517.0 |
| 12.5°  | 2468.1 | 2515.5 | 2518.5 | 2572.0 | 2596.4 | 2599.5 | 2623.9 | 2619.3 | 2634.6 | 2634.6 | 2660.6 |
| 15°    | 2521.6 | 2594.9 | 2636.1 | 2688.1 | 2703.3 | 2685.0 | 2704.9 | 2726.3 | 2727.8 | 2727.8 | 2726.3 |
| 17.5°  | 2617.8 | 2646.8 | 2688.1 | 2715.6 | 2721.7 | 2721.7 | 2723.2 | 2732.4 | 2726.3 | 2714.0 | 2723.2 |
| 20°    | 2637.7 | 2649.9 | 2665.2 | 2662.1 | 2665.2 | 2649.9 | 2634.6 | 2619.3 | 2620.9 | 2613.2 | 2636.1 |
| 22.5°  | 2601.0 | 2598.0 | 2562.8 | 2539.9 | 2539.9 | 2509.4 | 2480.4 | 2466.6 | 2452.9 | 2457.4 | 2465.1 |
| 25°    | 2509.4 | 2462.0 | 2419.3 | 2385.7 | 2378.0 | 2329.2 | 2289.4 | 2277.2 | 2254.3 | 2272.6 | 2275.7 |
| 27.5°  | 2362.8 | 2309.3 | 2240.6 | 2211.5 | 2171.8 | 2152.0 | 2124.5 | 2087.8 | 2040.5 | 2068.0 | 2063.4 |
| 30°    | 2205.4 | 2126.0 | 2069.5 | 1999.3 | 1936.6 | 1932.0 | 1880.1 | 1819.0 | 1794.6 | 1794.6 | 1808.3 |
| 32.5°  | 2029.8 | 1924.4 | 1841.9 | 1742.7 | 1681.6 | 1655.6 | 1593.0 | 1531.9 | 1545.6 | 1499.8 | 1516.6 |
| 35°    | 1825.1 | 1686.2 | 1582.3 | 1486.1 | 1440.3 | 1409.7 | 1328.8 | 1295.2 | 1258.5 | 1237.1 | 1276.8 |
| 37.5°  | 1629.6 | 1469.3 | 1336.4 | 1231.0 | 1214.2 | 1159.2 | 1104.2 | 1082.9 | 1061.5 | 1070.6 | 1069.1 |
| 40°    | 1391.4 | 1249.3 | 1130.2 | 1047.7 | 1018.7 | 992.8  | 956.1  | 930.1  | 916.4  | 924.0  | 925.6  |
| 42.5°  | 1176.0 | 1056.9 | 968.3  | 910.3  | 885.8  | 867.5  | 849.2  | 827.8  | 823.2  | 823.2  | 829.3  |
| 45°    | 1009.6 | 911.8  | 852.2  | 804.9  | 791.1  | 777.4  | 763.7  | 754.5  | 751.4  | 745.3  | 749.9  |
| 47.5°  | 876.7  | 798.8  | 762.1  | 727.0  | 711.7  | 708.7  | 696.5  | 691.9  | 685.8  | 684.2  | 685.8  |
| 50°    | 765.2  | 716.3  | 682.7  | 662.9  | 652.2  | 647.6  | 641.5  | 632.3  | 629.3  | 636.9  | 633.8  |
| 52.5°  | 687.3  | 641.5  | 623.1  | 603.3  | 597.2  | 591.1  | 581.9  | 583.4  | 581.9  | 578.9  | 578.9  |
| 55°    | 609.4  | 580.4  | 562.1  | 546.8  | 545.3  | 539.1  | 531.5  | 528.4  | 526.9  | 523.9  | 528.4  |
| 57.5°  | 546.8  | 523.9  | 507.1  | 493.3  | 487.2  | 487.2  | 479.6  | 473.5  | 473.5  | 471.9  | 473.5  |
| 60°    | 484.2  | 461.2  | 450.6  | 436.8  | 432.2  | 430.7  | 426.1  | 423.1  | 418.5  | 418.5  | 418.5  |
| 62.5°  | 426.1  | 407.8  | 395.6  | 383.4  | 384.9  | 377.2  | 371.1  | 368.1  | 368.1  | 369.6  | 369.6  |
| 65°    | 371.1  | 358.9  | 343.6  | 333.0  | 329.9  | 328.4  | 325.3  | 323.8  | 319.2  | 322.3  | 322.3  |
| 67.5°  | 320.7  | 303.9  | 294.8  | 290.2  | 285.6  | 284.1  | 281.0  | 278.0  | 276.4  | 274.9  | 278.0  |
| 70°    | 270.3  | 256.6  | 249.0  | 245.9  | 241.3  | 239.8  | 238.3  | 233.7  | 235.2  | 236.7  | 238.3  |
| 72.5°  | 224.5  | 212.3  | 210.8  | 201.6  | 201.6  | 201.6  | 195.5  | 198.6  | 197.0  | 194.0  | 197.0  |
| 75°    | 177.2  | 171.1  | 168.0  | 163.4  | 164.9  | 163.4  | 161.9  | 157.3  | 157.3  | 158.8  | 160.4  |
| 77.5°  | 140.5  | 134.4  | 132.9  | 128.3  | 125.2  | 128.3  | 125.2  | 123.7  | 123.7  | 125.2  | 125.2  |
| 80°    | 103.9  | 100.8  | 96.2   | 96.2   | 96.2   | 94.7   | 94.7   | 94.7   | 93.2   | 91.6   | 93.2   |
| 82.5°  | 68.7   | 68.7   | 67.2   | 65.7   | 67.2   | 64.1   | 65.7   | 65.7   | 65.7   | 65.7   | 65.7   |
| 85°    | 44.3   | 42.8   | 42.8   | 41.2   | 41.2   | 41.2   | 42.8   | 39.7   | 39.7   | 41.2   | 41.2   |
| 87.5°  | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 19.9   | 19.9   |
| 90°    | 30.3   | 31.9   | 33.5   | 35.1   | 35.9   | 36.2   | 36.8   | 37.5   | 38.1   | 38.7   | 38.1   |
| 92.5°  | 35.0   | 35.7   | 36.3   | 37.0   | 37.3   | 37.5   | 37.8   | 38.1   | 38.4   | 38.7   | 38.4   |
| 95°    | 57.6   | 59.2   | 60.7   | 62.3   | 63.1   | 62.9   | 62.6   | 62.3   | 62.0   | 61.7   | 62.0   |
| 97.5°  | 74.2   | 75.1   | 76.1   | 77.0   | 77.5   | 77.7   | 78.0   | 78.3   | 78.6   | 78.9   | 78.6   |
| 100°   | 84.4   | 86.9   | 89.5   | 92.0   | 93.3   | 93.6   | 94.2   | 94.9   | 95.5   | 96.1   | 95.5   |
| 102.5° | 88.2   | 91.7   | 95.2   | 98.7   | 100.4  | 100.9  | 101.8  | 102.8  | 103.7  | 104.7  | 103.7  |
| 105°   | 91.0   | 94.5   | 98.0   | 101.5  | 103.3  | 103.9  | 105.2  | 106.5  | 107.8  | 109.1  | 107.8  |
| 107.5° | 93.9   | 97.4   | 100.9  | 104.4  | 106.2  | 106.8  | 108.1  | 109.4  | 110.6  | 111.9  | 110.6  |
| 110°   | 219.2  | 187.3  | 155.4  | 123.5  | 107.6  | 108.2  | 109.5  | 110.8  | 112.1  | 113.4  | 112.1  |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 591.5  | 454.1  | 316.6  | 179.2  | 110.5  | 111.0  | 111.9  | 112.9  | 113.8  | 114.8  | 113.8  |
| 115°   | 737.7  | 590.1  | 442.4  | 294.8  | 221.0  | 209.5  | 186.6  | 163.6  | 140.7  | 117.7  | 140.7  |
| 117.5° | 917.2  | 871.6  | 826.0  | 780.4  | 757.6  | 715.8  | 632.3  | 548.8  | 465.2  | 381.7  | 465.2  |
| 120°   | 1055.6 | 1059.4 | 1063.3 | 1067.1 | 1069.0 | 1047.5 | 1004.4 | 961.4  | 918.3  | 875.3  | 918.3  |
| 122.5° | 1138.3 | 1140.2 | 1142.1 | 1144.0 | 1145.0 | 1145.2 | 1145.5 | 1145.8 | 1146.2 | 1146.5 | 1146.2 |
| 125°   | 1214.7 | 1216.9 | 1219.2 | 1221.4 | 1222.5 | 1223.0 | 1223.9 | 1224.9 | 1225.8 | 1226.8 | 1225.8 |
| 127.5° | 1286.0 | 1289.2 | 1292.3 | 1295.5 | 1297.1 | 1297.3 | 1297.6 | 1297.9 | 1298.3 | 1298.6 | 1298.3 |
| 130°   | 1353.7 | 1357.2 | 1360.7 | 1364.2 | 1366.0 | 1365.8 | 1365.5 | 1365.2 | 1364.9 | 1364.6 | 1364.9 |
| 132.5° | 1420.6 | 1423.4 | 1426.3 | 1429.2 | 1430.6 | 1430.4 | 1430.1 | 1429.8 | 1429.4 | 1429.1 | 1429.4 |
| 135°   | 1482.6 | 1485.8 | 1488.9 | 1492.1 | 1493.7 | 1493.4 | 1492.7 | 1492.1 | 1491.4 | 1490.8 | 1491.4 |
| 137.5° | 1541.4 | 1544.6 | 1547.8 | 1551.0 | 1552.6 | 1552.1 | 1551.1 | 1550.2 | 1549.2 | 1548.2 | 1549.2 |
| 140°   | 1598.5 | 1601.3 | 1604.2 | 1607.1 | 1608.5 | 1607.7 | 1606.1 | 1604.5 | 1602.9 | 1601.3 | 1602.9 |
| 142.5° | 1651.3 | 1653.8 | 1656.4 | 1658.9 | 1660.2 | 1659.4 | 1657.8 | 1656.2 | 1654.6 | 1653.0 | 1654.6 |
| 145°   | 1699.7 | 1701.9 | 1704.2 | 1706.4 | 1707.5 | 1706.7 | 1705.1 | 1703.5 | 1701.9 | 1700.3 | 1701.9 |
| 147.5° | 1743.6 | 1745.2 | 1746.7 | 1748.3 | 1749.1 | 1748.5 | 1747.2 | 1745.9 | 1744.7 | 1743.4 | 1744.7 |
| 150°   | 1782.6 | 1784.5 | 1786.4 | 1788.3 | 1789.3 | 1788.5 | 1786.9 | 1785.3 | 1783.7 | 1782.1 | 1783.7 |
| 152.5° | 1818.5 | 1820.4 | 1822.3 | 1824.2 | 1825.2 | 1824.1 | 1821.8 | 1819.6 | 1817.3 | 1815.1 | 1817.3 |
| 155°   | 1850.0 | 1851.9 | 1853.8 | 1855.7 | 1856.7 | 1855.4 | 1852.9 | 1850.4 | 1847.8 | 1845.3 | 1847.8 |
| 157.5° | 1877.6 | 1879.8 | 1882.1 | 1884.3 | 1885.4 | 1884.1 | 1881.6 | 1879.1 | 1876.5 | 1874.0 | 1876.5 |
| 160°   | 1901.7 | 1903.6 | 1905.5 | 1907.4 | 1908.4 | 1907.3 | 1905.1 | 1902.8 | 1900.6 | 1898.4 | 1900.6 |
| 162.5° | 1923.5 | 1925.8 | 1928.0 | 1930.3 | 1931.4 | 1930.0 | 1927.1 | 1924.2 | 1921.3 | 1918.4 | 1921.3 |
| 165°   | 1940.7 | 1943.0 | 1945.2 | 1947.5 | 1948.6 | 1947.5 | 1945.2 | 1943.0 | 1940.7 | 1938.5 | 1940.7 |
| 167.5° | 1956.5 | 1958.8 | 1961.0 | 1963.3 | 1964.4 | 1963.0 | 1960.1 | 1957.2 | 1954.3 | 1951.4 | 1954.3 |
| 170°   | 1968.0 | 1970.2 | 1972.5 | 1974.7 | 1975.8 | 1974.4 | 1971.5 | 1968.6 | 1965.8 | 1962.9 | 1965.8 |
| 172.5° | 1976.6 | 1978.9 | 1981.1 | 1983.4 | 1984.5 | 1983.1 | 1980.2 | 1977.3 | 1974.4 | 1971.5 | 1974.4 |
| 175°   | 1982.3 | 1984.6 | 1986.8 | 1989.1 | 1990.2 | 1988.6 | 1985.4 | 1982.2 | 1979.0 | 1975.8 | 1979.0 |
| 177.5° | 1983.8 | 1986.0 | 1988.3 | 1990.5 | 1991.6 | 1990.2 | 1987.3 | 1984.4 | 1981.6 | 1978.7 | 1981.6 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2106.2 | 2095.5 | 2086.3 | 2087.8 | 2095.5 | 2089.4 | 2074.1 | 2054.2 | 2046.6 | 2037.4 | 2046.6 |
| 5°     | 2232.9 | 2223.8 | 2205.4 | 2207.0 | 2202.4 | 2196.3 | 2171.8 | 2141.3 | 2141.3 | 2116.9 | 2113.8 |
| 7.5°   | 2358.2 | 2344.4 | 2332.2 | 2329.2 | 2312.4 | 2300.1 | 2278.7 | 2236.0 | 2219.2 | 2190.2 | 2173.4 |
| 10°    | 2498.7 | 2488.0 | 2474.2 | 2457.4 | 2448.3 | 2426.9 | 2391.8 | 2329.2 | 2298.6 | 2258.9 | 2229.9 |
| 12.5°  | 2640.7 | 2639.2 | 2608.6 | 2575.0 | 2573.5 | 2539.9 | 2515.5 | 2431.5 | 2390.2 | 2336.8 | 2268.1 |
| 15°    | 2730.8 | 2723.2 | 2706.4 | 2689.6 | 2694.2 | 2657.5 | 2602.5 | 2503.3 | 2475.8 | 2411.6 | 2338.3 |
| 17.5°  | 2729.3 | 2729.3 | 2724.7 | 2721.7 | 2717.1 | 2706.4 | 2675.9 | 2610.2 | 2565.9 | 2484.9 | 2416.2 |
| 20°    | 2642.2 | 2662.1 | 2666.7 | 2665.2 | 2680.4 | 2688.1 | 2686.5 | 2645.3 | 2610.2 | 2538.4 | 2468.1 |
| 22.5°  | 2468.1 | 2514.0 | 2533.8 | 2546.0 | 2578.1 | 2594.9 | 2634.6 | 2619.3 | 2610.2 | 2556.7 | 2497.2 |
| 25°    | 2306.2 | 2321.5 | 2381.1 | 2384.1 | 2428.4 | 2469.7 | 2509.4 | 2535.3 | 2568.9 | 2549.1 | 2498.7 |
| 27.5°  | 2097.0 | 2132.1 | 2174.9 | 2207.0 | 2216.1 | 2300.1 | 2365.8 | 2414.7 | 2491.0 | 2497.2 | 2480.4 |
| 30°    | 1860.3 | 1877.1 | 1947.3 | 1990.1 | 2039.0 | 2100.1 | 2194.7 | 2278.7 | 2347.5 | 2410.1 | 2431.5 |
| 32.5°  | 1571.6 | 1640.3 | 1681.6 | 1733.5 | 1776.3 | 1884.7 | 2000.8 | 2109.2 | 2188.6 | 2294.0 | 2339.8 |
| 35°    | 1307.4 | 1360.8 | 1431.1 | 1452.5 | 1530.4 | 1622.0 | 1773.2 | 1912.2 | 2032.9 | 2139.8 | 2232.9 |
| 37.5°  | 1089.0 | 1131.7 | 1206.6 | 1240.2 | 1286.0 | 1403.6 | 1530.4 | 1703.0 | 1848.0 | 1979.4 | 2095.5 |
| 40°    | 939.3  | 971.4  | 1027.9 | 1038.6 | 1076.8 | 1183.7 | 1286.0 | 1447.9 | 1640.3 | 1817.5 | 1944.3 |
| 42.5°  | 837.0  | 852.2  | 890.4  | 904.2  | 928.6  | 1000.4 | 1092.0 | 1244.8 | 1423.5 | 1606.7 | 1785.4 |
| 45°    | 763.7  | 774.3  | 797.3  | 809.5  | 840.0  | 872.1  | 946.9  | 1069.1 | 1209.6 | 1394.4 | 1586.9 |
| 47.5°  | 698.0  | 711.7  | 720.9  | 728.5  | 745.3  | 780.5  | 829.3  | 919.4  | 1053.8 | 1223.4 | 1409.7 |
| 50°    | 643.0  | 647.6  | 664.4  | 665.9  | 676.6  | 699.5  | 745.3  | 800.3  | 907.2  | 1044.7 | 1224.9 |
| 52.5°  | 588.0  | 592.6  | 603.3  | 614.0  | 618.6  | 636.9  | 667.4  | 713.3  | 792.7  | 901.1  | 1061.5 |
| 55°    | 533.0  | 539.1  | 549.8  | 557.5  | 562.1  | 577.3  | 595.7  | 639.9  | 702.6  | 778.9  | 910.3  |
| 57.5°  | 478.0  | 491.8  | 494.8  | 499.4  | 507.1  | 523.9  | 540.7  | 566.6  | 615.5  | 685.8  | 782.0  |
| 60°    | 426.1  | 430.7  | 441.4  | 446.0  | 453.6  | 462.8  | 484.2  | 504.0  | 539.1  | 594.1  | 681.2  |
| 62.5°  | 372.7  | 383.4  | 387.9  | 392.5  | 398.6  | 409.3  | 423.1  | 444.4  | 475.0  | 519.3  | 588.0  |
| 65°    | 326.8  | 328.4  | 337.5  | 343.6  | 349.8  | 357.4  | 371.1  | 391.0  | 409.3  | 450.6  | 501.0  |
| 67.5°  | 282.6  | 285.6  | 288.7  | 294.8  | 302.4  | 310.0  | 322.3  | 333.0  | 355.9  | 383.4  | 423.1  |
| 70°    | 239.8  | 239.8  | 247.4  | 252.0  | 250.5  | 259.6  | 268.8  | 281.0  | 297.8  | 323.8  | 355.9  |
| 72.5°  | 201.6  | 200.1  | 206.2  | 207.7  | 210.8  | 216.9  | 223.0  | 235.2  | 244.4  | 264.2  | 288.7  |
| 75°    | 160.4  | 163.4  | 166.5  | 166.5  | 171.1  | 175.6  | 181.8  | 187.9  | 198.6  | 210.8  | 229.1  |
| 77.5°  | 126.8  | 126.8  | 129.8  | 131.3  | 135.9  | 134.4  | 140.5  | 146.6  | 154.3  | 164.9  | 178.7  |
| 80°    | 93.2   | 96.2   | 96.2   | 96.2   | 97.7   | 99.3   | 105.4  | 110.0  | 114.5  | 122.2  | 128.3  |
| 82.5°  | 65.7   | 65.7   | 68.7   | 68.7   | 68.7   | 71.8   | 71.8   | 73.3   | 76.4   | 80.9   | 85.5   |
| 85°    | 41.2   | 41.2   | 41.2   | 42.8   | 41.2   | 42.8   | 45.8   | 44.3   | 45.8   | 48.9   | 48.9   |
| 87.5°  | 19.9   | 19.9   | 19.9   | 19.9   | 19.9   | 21.4   | 19.9   | 21.4   | 22.9   | 22.9   | 22.9   |
| 90°    | 37.5   | 36.8   | 36.2   | 35.9   | 35.1   | 33.5   | 31.9   | 30.3   | 28.7   | 26.1   | 23.6   |
| 92.5°  | 38.1   | 37.8   | 37.5   | 37.3   | 37.0   | 36.3   | 35.7   | 35.0   | 34.4   | 33.4   | 32.5   |
| 95°    | 62.3   | 62.6   | 62.9   | 63.1   | 62.3   | 60.7   | 59.2   | 57.6   | 56.0   | 53.8   | 51.5   |
| 97.5°  | 78.3   | 78.0   | 77.7   | 77.5   | 77.0   | 76.1   | 75.1   | 74.2   | 73.2   | 68.1   | 63.0   |
| 100°   | 94.9   | 94.2   | 93.6   | 93.3   | 92.0   | 89.5   | 86.9   | 84.4   | 81.8   | 76.4   | 71.0   |
| 102.5° | 102.8  | 101.8  | 100.9  | 100.4  | 98.7   | 95.2   | 91.7   | 88.2   | 84.7   | 142.7  | 200.7  |
| 105°   | 106.5  | 105.2  | 103.9  | 103.3  | 101.5  | 98.0   | 94.5   | 91.0   | 87.5   | 174.6  | 261.6  |
| 107.5° | 109.4  | 108.1  | 106.8  | 106.2  | 104.4  | 100.9  | 97.4   | 93.9   | 90.4   | 197.9  | 305.3  |
| 110°   | 110.8  | 109.5  | 108.2  | 107.6  | 123.5  | 155.4  | 187.3  | 219.2  | 251.1  | 343.3  | 435.4  |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 112.9  | 111.9  | 111.0  | 110.5  | 179.2  | 316.6  | 454.1  | 591.5  | 728.9  | 734.3  | 739.7  |
| 115°   | 163.6  | 186.6  | 209.5  | 221.0  | 294.8  | 442.4  | 590.1  | 737.7  | 885.3  | 877.3  | 869.4  |
| 117.5° | 548.8  | 632.3  | 715.8  | 757.6  | 780.4  | 826.0  | 871.6  | 917.2  | 962.8  | 957.4  | 952.0  |
| 120°   | 961.4  | 1004.4 | 1047.5 | 1069.0 | 1067.1 | 1063.3 | 1059.4 | 1055.6 | 1051.8 | 1046.0 | 1040.3 |
| 122.5° | 1145.8 | 1145.5 | 1145.2 | 1145.0 | 1144.0 | 1142.1 | 1140.2 | 1138.3 | 1136.4 | 1130.0 | 1123.6 |
| 125°   | 1224.9 | 1223.9 | 1223.0 | 1222.5 | 1221.4 | 1219.2 | 1216.9 | 1214.7 | 1212.5 | 1206.4 | 1200.4 |
| 127.5° | 1297.9 | 1297.6 | 1297.3 | 1297.1 | 1295.5 | 1292.3 | 1289.2 | 1286.0 | 1282.8 | 1278.0 | 1273.2 |
| 130°   | 1365.2 | 1365.5 | 1365.8 | 1366.0 | 1364.2 | 1360.7 | 1357.2 | 1353.7 | 1350.2 | 1346.7 | 1343.2 |
| 132.5° | 1429.8 | 1430.1 | 1430.4 | 1430.6 | 1429.2 | 1426.3 | 1423.4 | 1420.6 | 1417.7 | 1414.2 | 1410.7 |
| 135°   | 1492.1 | 1492.7 | 1493.4 | 1493.7 | 1492.1 | 1488.9 | 1485.8 | 1482.6 | 1479.4 | 1476.5 | 1473.7 |
| 137.5° | 1550.2 | 1551.1 | 1552.1 | 1552.6 | 1551.0 | 1547.8 | 1544.6 | 1541.4 | 1538.2 | 1535.0 | 1531.8 |
| 140°   | 1604.5 | 1606.1 | 1607.7 | 1608.5 | 1607.1 | 1604.2 | 1601.3 | 1598.5 | 1595.6 | 1592.1 | 1588.6 |
| 142.5° | 1656.2 | 1657.8 | 1659.4 | 1660.2 | 1658.9 | 1656.4 | 1653.8 | 1651.3 | 1648.7 | 1644.5 | 1640.4 |
| 145°   | 1703.5 | 1705.1 | 1706.7 | 1707.5 | 1706.4 | 1704.2 | 1701.9 | 1699.7 | 1697.5 | 1692.1 | 1686.7 |
| 147.5° | 1745.9 | 1747.2 | 1748.5 | 1749.1 | 1748.3 | 1746.7 | 1745.2 | 1743.6 | 1742.0 | 1736.6 | 1731.2 |
| 150°   | 1785.3 | 1786.9 | 1788.5 | 1789.3 | 1788.3 | 1786.4 | 1784.5 | 1782.6 | 1780.7 | 1775.6 | 1770.5 |
| 152.5° | 1819.6 | 1821.8 | 1824.1 | 1825.2 | 1824.2 | 1822.3 | 1820.4 | 1818.5 | 1816.6 | 1811.8 | 1807.0 |
| 155°   | 1850.4 | 1852.9 | 1855.4 | 1856.7 | 1855.7 | 1853.8 | 1851.9 | 1850.0 | 1848.1 | 1844.3 | 1840.5 |
| 157.5° | 1879.1 | 1881.6 | 1884.1 | 1885.4 | 1884.3 | 1882.1 | 1879.8 | 1877.6 | 1875.4 | 1872.5 | 1869.7 |
| 160°   | 1902.8 | 1905.1 | 1907.3 | 1908.4 | 1907.4 | 1905.5 | 1903.6 | 1901.7 | 1899.8 | 1897.9 | 1896.0 |
| 162.5° | 1924.2 | 1927.1 | 1930.0 | 1931.4 | 1930.3 | 1928.0 | 1925.8 | 1923.5 | 1921.3 | 1919.7 | 1918.1 |
| 165°   | 1943.0 | 1945.2 | 1947.5 | 1948.6 | 1947.5 | 1945.2 | 1943.0 | 1940.7 | 1938.5 | 1937.5 | 1936.6 |
| 167.5° | 1957.2 | 1960.1 | 1963.0 | 1964.4 | 1963.3 | 1961.0 | 1958.8 | 1956.5 | 1954.3 | 1953.3 | 1952.4 |
| 170°   | 1968.6 | 1971.5 | 1974.4 | 1975.8 | 1974.7 | 1972.5 | 1970.2 | 1968.0 | 1965.8 | 1965.2 | 1964.5 |
| 172.5° | 1977.3 | 1980.2 | 1983.1 | 1984.5 | 1983.4 | 1981.1 | 1978.9 | 1976.6 | 1974.4 | 1973.8 | 1973.1 |
| 175°   | 1982.2 | 1985.4 | 1988.6 | 1990.2 | 1989.1 | 1986.8 | 1984.6 | 1982.3 | 1980.1 | 1979.5 | 1978.9 |
| 177.5° | 1984.4 | 1987.3 | 1990.2 | 1991.6 | 1990.5 | 1988.3 | 1986.0 | 1983.8 | 1981.6 | 1981.3 | 1980.9 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 2039.0 | 2031.3 | 2026.7 | 2029.8 | 2020.6 | 1997.7 | 1997.7 | 2005.4 | 1996.2 | 1987.0 | 1973.3 |
| 5°     | 2095.5 | 2080.2 | 2071.0 | 2069.5 | 2048.1 | 2011.5 | 2003.8 | 1996.2 | 1976.3 | 1955.0 | 1932.0 |
| 7.5°   | 2150.5 | 2123.0 | 2107.7 | 2097.0 | 2066.5 | 2019.1 | 1999.3 | 1982.5 | 1950.4 | 1918.3 | 1889.3 |
| 10°    | 2196.3 | 2156.6 | 2138.2 | 2121.4 | 2081.7 | 2022.2 | 1990.1 | 1959.5 | 1918.3 | 1877.1 | 1840.4 |
| 12.5°  | 2232.9 | 2187.1 | 2164.2 | 2139.8 | 2090.9 | 2013.0 | 1973.3 | 1924.4 | 1883.2 | 1828.2 | 1791.5 |
| 15°    | 2294.0 | 2199.3 | 2177.9 | 2155.0 | 2104.6 | 1997.7 | 1948.9 | 1893.9 | 1837.4 | 1764.0 | 1724.3 |
| 17.5°  | 2342.9 | 2216.1 | 2214.6 | 2165.7 | 2100.1 | 1991.6 | 1916.8 | 1845.0 | 1783.9 | 1710.6 | 1648.0 |
| 20°    | 2371.9 | 2242.1 | 2217.7 | 2167.3 | 2084.8 | 1950.4 | 1872.5 | 1793.1 | 1727.4 | 1638.8 | 1576.2 |
| 22.5°  | 2396.4 | 2278.7 | 2214.6 | 2153.5 | 2052.7 | 1936.6 | 1822.1 | 1747.2 | 1657.1 | 1560.9 | 1501.3 |
| 25°    | 2405.5 | 2286.4 | 2219.2 | 2148.9 | 2029.8 | 1896.9 | 1767.1 | 1686.2 | 1585.3 | 1498.3 | 1417.3 |
| 27.5°  | 2407.0 | 2284.9 | 2202.4 | 2129.1 | 1997.7 | 1845.0 | 1712.1 | 1626.6 | 1515.1 | 1414.3 | 1333.3 |
| 30°    | 2391.8 | 2268.1 | 2193.2 | 2113.8 | 1967.2 | 1797.6 | 1644.9 | 1550.2 | 1431.1 | 1330.3 | 1246.3 |
| 32.5°  | 2346.0 | 2234.5 | 2173.4 | 2086.3 | 1927.5 | 1732.0 | 1580.8 | 1475.4 | 1350.1 | 1250.9 | 1169.9 |
| 35°    | 2269.6 | 2193.2 | 2126.0 | 2045.1 | 1875.5 | 1670.9 | 1516.6 | 1392.9 | 1266.1 | 1171.4 | 1095.1 |
| 37.5°  | 2174.9 | 2133.7 | 2071.0 | 1991.6 | 1816.0 | 1615.9 | 1444.8 | 1307.4 | 1180.6 | 1089.0 | 1014.1 |
| 40°    | 2046.6 | 2057.3 | 1996.2 | 1924.4 | 1745.7 | 1541.1 | 1351.7 | 1220.3 | 1101.2 | 1015.7 | 942.4  |
| 42.5°  | 1907.6 | 1951.9 | 1916.8 | 1848.0 | 1667.8 | 1458.6 | 1282.9 | 1137.8 | 1021.8 | 933.2  | 872.1  |
| 45°    | 1757.9 | 1834.3 | 1812.9 | 1762.5 | 1586.9 | 1371.5 | 1185.2 | 1044.7 | 942.4  | 856.8  | 803.4  |
| 47.5°  | 1594.5 | 1703.0 | 1703.0 | 1666.3 | 1496.8 | 1284.5 | 1101.2 | 957.6  | 856.8  | 795.7  | 743.8  |
| 50°    | 1428.0 | 1550.2 | 1570.1 | 1545.6 | 1396.0 | 1185.2 | 998.9  | 869.0  | 782.0  | 722.4  | 684.2  |
| 52.5°  | 1253.9 | 1396.0 | 1432.6 | 1420.4 | 1289.1 | 1090.5 | 914.9  | 788.1  | 708.7  | 656.7  | 623.1  |
| 55°    | 1087.4 | 1252.4 | 1292.1 | 1296.7 | 1174.5 | 986.6  | 821.7  | 710.2  | 633.8  | 598.7  | 569.7  |
| 57.5°  | 930.1  | 1089.0 | 1133.3 | 1140.9 | 1058.4 | 892.0  | 734.6  | 636.9  | 568.2  | 539.1  | 516.2  |
| 60°    | 795.7  | 928.6  | 986.6  | 1003.4 | 931.7  | 782.0  | 653.7  | 559.0  | 507.1  | 479.6  | 458.2  |
| 62.5°  | 685.8  | 792.7  | 853.8  | 858.3  | 826.3  | 685.8  | 569.7  | 490.3  | 446.0  | 421.5  | 410.8  |
| 65°    | 578.9  | 675.1  | 711.7  | 730.1  | 704.1  | 594.1  | 491.8  | 426.1  | 391.0  | 369.6  | 358.9  |
| 67.5°  | 493.3  | 554.4  | 585.0  | 609.4  | 583.4  | 501.0  | 418.5  | 365.0  | 339.1  | 317.7  | 311.6  |
| 70°    | 404.7  | 455.1  | 478.0  | 502.5  | 479.6  | 417.0  | 357.4  | 308.5  | 285.6  | 268.8  | 261.2  |
| 72.5°  | 323.8  | 363.5  | 384.9  | 400.2  | 386.4  | 334.5  | 285.6  | 252.0  | 235.2  | 223.0  | 218.4  |
| 75°    | 256.6  | 284.1  | 296.3  | 307.0  | 300.9  | 261.2  | 230.6  | 203.1  | 187.9  | 177.2  | 174.1  |
| 77.5°  | 195.5  | 215.4  | 229.1  | 232.2  | 224.5  | 198.6  | 172.6  | 155.8  | 143.6  | 137.5  | 134.4  |
| 80°    | 139.0  | 151.2  | 158.8  | 163.4  | 155.8  | 145.1  | 126.8  | 114.5  | 103.9  | 96.2   | 94.7   |
| 82.5°  | 93.2   | 99.3   | 105.4  | 103.9  | 100.8  | 91.6   | 80.9   | 74.8   | 70.3   | 64.1   | 64.1   |
| 85°    | 53.5   | 55.0   | 58.0   | 59.6   | 58.0   | 51.9   | 45.8   | 42.8   | 39.7   | 35.1   | 35.1   |
| 87.5°  | 22.9   | 24.4   | 24.4   | 26.0   | 22.9   | 22.9   | 19.9   | 16.8   | 16.8   | 15.3   | 13.7   |
| 90°    | 21.0   | 18.5   | 17.2   | 15.4   | 11.9   | 8.4    | 4.9    | 1.4    | 4.9    | 8.4    | 11.9   |
| 92.5°  | 31.5   | 30.6   | 30.1   | 30.7   | 32.0   | 33.3   | 34.6   | 35.9   | 34.6   | 33.3   | 32.0   |
| 95°    | 49.3   | 47.0   | 45.9   | 51.2   | 61.7   | 72.2   | 82.8   | 93.3   | 82.8   | 72.2   | 61.7   |
| 97.5°  | 57.9   | 52.8   | 50.2   | 63.3   | 89.4   | 115.6  | 141.7  | 167.9  | 141.7  | 115.6  | 89.4   |
| 100°   | 65.5   | 60.1   | 57.4   | 79.2   | 122.9  | 166.6  | 210.3  | 254.0  | 210.3  | 166.6  | 122.9  |
| 102.5° | 258.8  | 316.8  | 345.8  | 346.1  | 346.8  | 347.4  | 348.1  | 348.7  | 348.1  | 347.4  | 346.8  |
| 105°   | 348.7  | 435.8  | 479.3  | 474.5  | 464.9  | 455.4  | 445.8  | 436.2  | 445.8  | 455.4  | 464.9  |
| 107.5° | 412.8  | 520.3  | 574.0  | 570.0  | 562.0  | 554.1  | 546.1  | 538.1  | 546.1  | 554.1  | 562.0  |
| 110°   | 527.6  | 619.7  | 665.8  | 662.5  | 655.8  | 649.1  | 642.4  | 635.7  | 642.4  | 649.1  | 655.8  |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 745.2  | 750.6  | 753.3  | 750.4  | 744.7  | 739.0  | 733.2  | 727.5  | 733.2  | 739.0  | 744.7  |
| 115°   | 861.4  | 853.5  | 849.5  | 846.8  | 841.4  | 835.9  | 830.5  | 825.1  | 830.5  | 835.9  | 841.4  |
| 117.5° | 946.5  | 941.1  | 938.4  | 935.2  | 928.8  | 922.5  | 916.1  | 909.7  | 916.1  | 922.5  | 928.8  |
| 120°   | 1034.5 | 1028.8 | 1025.9 | 1023.5 | 1018.7 | 1014.0 | 1009.2 | 1004.4 | 1009.2 | 1014.0 | 1018.7 |
| 122.5° | 1117.3 | 1110.9 | 1107.7 | 1105.2 | 1100.1 | 1095.0 | 1089.9 | 1084.8 | 1089.9 | 1095.0 | 1100.1 |
| 125°   | 1194.3 | 1188.2 | 1185.2 | 1183.1 | 1179.0 | 1174.9 | 1170.7 | 1166.6 | 1170.7 | 1174.9 | 1179.0 |
| 127.5° | 1268.5 | 1263.7 | 1261.3 | 1259.1 | 1254.6 | 1250.1 | 1245.7 | 1241.2 | 1245.7 | 1250.1 | 1254.6 |
| 130°   | 1339.7 | 1336.2 | 1334.4 | 1331.9 | 1326.8 | 1321.7 | 1316.6 | 1311.5 | 1316.6 | 1321.7 | 1326.8 |
| 132.5° | 1407.2 | 1403.7 | 1401.9 | 1399.8 | 1395.7 | 1391.5 | 1387.4 | 1383.2 | 1387.4 | 1391.5 | 1395.7 |
| 135°   | 1470.8 | 1467.9 | 1466.5 | 1463.9 | 1458.8 | 1453.7 | 1448.6 | 1443.5 | 1448.6 | 1453.7 | 1458.8 |
| 137.5° | 1528.7 | 1525.5 | 1523.9 | 1522.0 | 1518.1 | 1514.3 | 1510.4 | 1506.6 | 1510.4 | 1514.3 | 1518.1 |
| 140°   | 1585.1 | 1581.6 | 1579.8 | 1578.5 | 1576.0 | 1573.4 | 1570.9 | 1568.3 | 1570.9 | 1573.4 | 1576.0 |
| 142.5° | 1636.2 | 1632.1 | 1630.0 | 1628.9 | 1626.7 | 1624.4 | 1622.2 | 1620.0 | 1622.2 | 1624.4 | 1626.7 |
| 145°   | 1681.2 | 1675.8 | 1673.1 | 1673.3 | 1673.6 | 1673.9 | 1674.2 | 1674.5 | 1674.2 | 1673.9 | 1673.6 |
| 147.5° | 1725.7 | 1720.3 | 1717.6 | 1718.1 | 1719.0 | 1720.0 | 1720.9 | 1721.9 | 1720.9 | 1720.0 | 1719.0 |
| 150°   | 1765.4 | 1760.3 | 1757.7 | 1758.8 | 1761.1 | 1763.3 | 1765.6 | 1767.8 | 1765.6 | 1763.3 | 1761.1 |
| 152.5° | 1802.2 | 1797.4 | 1795.0 | 1796.3 | 1798.8 | 1801.4 | 1803.9 | 1806.5 | 1803.9 | 1801.4 | 1798.8 |
| 155°   | 1836.6 | 1832.8 | 1830.9 | 1832.3 | 1835.2 | 1838.1 | 1840.9 | 1843.8 | 1840.9 | 1838.1 | 1835.2 |
| 157.5° | 1866.8 | 1863.9 | 1862.5 | 1863.8 | 1866.3 | 1868.9 | 1871.4 | 1874.0 | 1871.4 | 1868.9 | 1866.3 |
| 160°   | 1894.1 | 1892.2 | 1891.2 | 1892.2 | 1894.1 | 1896.0 | 1897.9 | 1899.8 | 1897.9 | 1896.0 | 1894.1 |
| 162.5° | 1916.5 | 1914.9 | 1914.1 | 1915.1 | 1917.0 | 1918.9 | 1920.9 | 1922.8 | 1920.9 | 1918.9 | 1917.0 |
| 165°   | 1935.6 | 1934.7 | 1934.2 | 1935.2 | 1937.1 | 1939.0 | 1940.9 | 1942.8 | 1940.9 | 1939.0 | 1937.1 |
| 167.5° | 1951.4 | 1950.5 | 1950.0 | 1951.0 | 1952.9 | 1954.8 | 1956.7 | 1958.6 | 1956.7 | 1954.8 | 1952.9 |
| 170°   | 1963.9 | 1963.2 | 1962.9 | 1963.9 | 1965.8 | 1967.7 | 1969.6 | 1971.5 | 1969.6 | 1967.7 | 1965.8 |
| 172.5° | 1972.5 | 1971.8 | 1971.5 | 1972.5 | 1974.4 | 1976.3 | 1978.2 | 1980.1 | 1978.2 | 1976.3 | 1974.4 |
| 175°   | 1978.2 | 1977.6 | 1977.3 | 1978.4 | 1980.6 | 1982.9 | 1985.1 | 1987.3 | 1985.1 | 1982.9 | 1980.6 |
| 177.5° | 1980.6 | 1980.3 | 1980.1 | 1981.2 | 1983.5 | 1985.7 | 1988.0 | 1990.2 | 1988.0 | 1985.7 | 1983.5 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1965.7 | 1973.3 | 1971.8 | 1956.5 | 1939.7 | 1925.9 | 1900.0 | 1903.0 | 1893.9 | 1895.4 | 1904.6 |
| 5°     | 1916.8 | 1916.8 | 1910.7 | 1889.3 | 1861.8 | 1846.5 | 1817.5 | 1809.9 | 1791.5 | 1790.0 | 1788.5 |
| 7.5°   | 1864.8 | 1857.2 | 1849.6 | 1819.0 | 1785.4 | 1761.0 | 1721.3 | 1712.1 | 1693.8 | 1681.6 | 1675.5 |
| 10°    | 1803.8 | 1793.1 | 1777.8 | 1742.7 | 1701.4 | 1670.9 | 1629.6 | 1617.4 | 1582.3 | 1567.0 | 1557.9 |
| 12.5°  | 1736.6 | 1730.4 | 1706.0 | 1677.0 | 1609.8 | 1576.2 | 1516.6 | 1528.8 | 1493.7 | 1463.2 | 1458.6 |
| 15°    | 1669.4 | 1646.4 | 1632.7 | 1585.3 | 1504.4 | 1489.1 | 1441.8 | 1417.3 | 1385.3 | 1360.8 | 1360.8 |
| 17.5°  | 1603.7 | 1568.5 | 1538.0 | 1487.6 | 1428.0 | 1385.3 | 1350.1 | 1337.9 | 1298.2 | 1273.8 | 1269.2 |
| 20°    | 1516.6 | 1476.9 | 1469.3 | 1397.5 | 1356.3 | 1308.9 | 1275.3 | 1244.8 | 1215.7 | 1205.0 | 1197.4 |
| 22.5°  | 1434.1 | 1388.3 | 1376.1 | 1315.0 | 1273.8 | 1226.4 | 1192.8 | 1171.4 | 1150.1 | 1142.4 | 1128.7 |
| 25°    | 1345.6 | 1318.1 | 1299.7 | 1234.1 | 1188.2 | 1144.0 | 1121.0 | 1105.8 | 1085.9 | 1084.4 | 1075.2 |
| 27.5°  | 1260.0 | 1234.1 | 1215.7 | 1153.1 | 1119.5 | 1078.3 | 1060.0 | 1043.2 | 1032.5 | 1027.9 | 1023.3 |
| 30°    | 1186.7 | 1157.7 | 1136.3 | 1090.5 | 1049.3 | 1015.7 | 1000.4 | 989.7  | 983.6  | 976.0  | 974.4  |
| 32.5°  | 1105.8 | 1089.0 | 1060.0 | 1024.8 | 992.8  | 960.7  | 951.5  | 943.9  | 934.7  | 931.7  | 930.1  |
| 35°    | 1037.0 | 1014.1 | 995.8  | 956.1  | 942.4  | 914.9  | 904.2  | 898.1  | 885.8  | 882.8  | 879.7  |
| 37.5°  | 969.8  | 948.5  | 928.6  | 904.2  | 878.2  | 862.9  | 856.8  | 847.7  | 841.5  | 843.1  | 840.0  |
| 40°    | 902.6  | 885.8  | 870.6  | 844.6  | 829.3  | 821.7  | 809.5  | 800.3  | 797.3  | 798.8  | 797.3  |
| 42.5°  | 837.0  | 821.7  | 812.5  | 792.7  | 777.4  | 769.8  | 762.1  | 753.0  | 757.5  | 757.5  | 762.1  |
| 45°    | 777.4  | 763.7  | 757.5  | 742.3  | 733.1  | 720.9  | 713.3  | 711.7  | 717.8  | 716.3  | 716.3  |
| 47.5°  | 716.3  | 711.7  | 704.1  | 690.3  | 678.1  | 670.5  | 669.0  | 669.0  | 675.1  | 678.1  | 676.6  |
| 50°    | 669.0  | 659.8  | 650.6  | 639.9  | 630.8  | 627.7  | 623.1  | 626.2  | 632.3  | 632.3  | 635.4  |
| 52.5°  | 609.4  | 603.3  | 600.2  | 591.1  | 585.0  | 585.0  | 585.0  | 586.5  | 591.1  | 595.7  | 594.1  |
| 55°    | 557.5  | 552.9  | 549.8  | 545.3  | 537.6  | 539.1  | 537.6  | 540.7  | 545.3  | 549.8  | 552.9  |
| 57.5°  | 502.5  | 501.0  | 497.9  | 490.3  | 490.3  | 488.7  | 493.3  | 494.8  | 502.5  | 505.5  | 510.1  |
| 60°    | 453.6  | 449.0  | 449.0  | 442.9  | 442.9  | 442.9  | 447.5  | 452.1  | 458.2  | 459.7  | 462.8  |
| 62.5°  | 401.7  | 401.7  | 400.2  | 395.6  | 395.6  | 400.2  | 401.7  | 407.8  | 410.8  | 410.8  | 415.4  |
| 65°    | 352.8  | 351.3  | 349.8  | 351.3  | 352.8  | 352.8  | 357.4  | 360.4  | 363.5  | 365.0  | 366.6  |
| 67.5°  | 303.9  | 302.4  | 305.5  | 303.9  | 307.0  | 313.1  | 311.6  | 316.2  | 320.7  | 320.7  | 322.3  |
| 70°    | 258.1  | 261.2  | 259.6  | 262.7  | 261.2  | 264.2  | 268.8  | 270.3  | 270.3  | 271.9  | 276.4  |
| 72.5°  | 215.4  | 215.4  | 215.4  | 213.8  | 215.4  | 218.4  | 221.5  | 223.0  | 226.0  | 227.6  | 232.2  |
| 75°    | 174.1  | 174.1  | 171.1  | 174.1  | 174.1  | 177.2  | 180.2  | 180.2  | 180.2  | 183.3  | 187.9  |
| 77.5°  | 131.3  | 132.9  | 131.3  | 134.4  | 134.4  | 135.9  | 139.0  | 137.5  | 140.5  | 142.0  | 143.6  |
| 80°    | 96.2   | 94.7   | 94.7   | 94.7   | 96.2   | 96.2   | 99.3   | 100.8  | 100.8  | 105.4  | 102.3  |
| 82.5°  | 61.1   | 62.6   | 61.1   | 62.6   | 62.6   | 64.1   | 62.6   | 64.1   | 65.7   | 68.7   | 67.2   |
| 85°    | 35.1   | 33.6   | 33.6   | 35.1   | 33.6   | 33.6   | 35.1   | 33.6   | 35.1   | 33.6   | 35.1   |
| 87.5°  | 13.7   | 12.2   | 12.2   | 12.2   | 12.2   | 10.7   | 10.7   | 9.2    | 9.2    | 9.2    | 7.6    |
| 90°    | 15.4   | 17.2   | 18.5   | 21.0   | 23.6   | 26.1   | 28.7   | 30.3   | 31.9   | 33.5   | 35.1   |
| 92.5°  | 30.7   | 30.1   | 30.6   | 31.5   | 32.5   | 33.4   | 34.4   | 35.0   | 35.7   | 36.3   | 37.0   |
| 95°    | 51.2   | 45.9   | 47.0   | 49.3   | 51.5   | 53.8   | 56.0   | 57.6   | 59.2   | 60.7   | 62.3   |
| 97.5°  | 63.3   | 50.2   | 52.8   | 57.9   | 63.0   | 68.1   | 73.2   | 74.2   | 75.1   | 76.1   | 77.0   |
| 100°   | 79.2   | 57.4   | 60.1   | 65.5   | 71.0   | 76.4   | 81.8   | 84.4   | 86.9   | 89.5   | 92.0   |
| 102.5° | 346.1  | 345.8  | 316.8  | 258.8  | 200.7  | 142.7  | 84.7   | 88.2   | 91.7   | 95.2   | 98.7   |
| 105°   | 474.5  | 479.3  | 435.8  | 348.7  | 261.6  | 174.6  | 87.5   | 91.0   | 94.5   | 98.0   | 101.5  |
| 107.5° | 570.0  | 574.0  | 520.3  | 412.8  | 305.3  | 197.9  | 90.4   | 93.9   | 97.4   | 100.9  | 104.4  |
| 110°   | 662.5  | 665.8  | 619.7  | 527.6  | 435.4  | 343.3  | 251.1  | 219.2  | 187.3  | 155.4  | 123.5  |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 750.4  | 753.3  | 750.6  | 745.2  | 739.7  | 734.3  | 728.9  | 591.5  | 454.1  | 316.6  | 179.2  |
| 115°   | 846.8  | 849.5  | 853.5  | 861.4  | 869.4  | 877.3  | 885.3  | 737.7  | 590.1  | 442.4  | 294.8  |
| 117.5° | 935.2  | 938.4  | 941.1  | 946.5  | 952.0  | 957.4  | 962.8  | 917.2  | 871.6  | 826.0  | 780.4  |
| 120°   | 1023.5 | 1025.9 | 1028.8 | 1034.5 | 1040.3 | 1046.0 | 1051.8 | 1055.6 | 1059.4 | 1063.3 | 1067.1 |
| 122.5° | 1105.2 | 1107.7 | 1110.9 | 1117.3 | 1123.6 | 1130.0 | 1136.4 | 1138.3 | 1140.2 | 1142.1 | 1144.0 |
| 125°   | 1183.1 | 1185.2 | 1188.2 | 1194.3 | 1200.4 | 1206.4 | 1212.5 | 1214.7 | 1216.9 | 1219.2 | 1221.4 |
| 127.5° | 1259.1 | 1261.3 | 1263.7 | 1268.5 | 1273.2 | 1278.0 | 1282.8 | 1286.0 | 1289.2 | 1292.3 | 1295.5 |
| 130°   | 1331.9 | 1334.4 | 1336.2 | 1339.7 | 1343.2 | 1346.7 | 1350.2 | 1353.7 | 1357.2 | 1360.7 | 1364.2 |
| 132.5° | 1399.8 | 1401.9 | 1403.7 | 1407.2 | 1410.7 | 1414.2 | 1417.7 | 1420.6 | 1423.4 | 1426.3 | 1429.2 |
| 135°   | 1463.9 | 1466.5 | 1467.9 | 1470.8 | 1473.7 | 1476.5 | 1479.4 | 1482.6 | 1485.8 | 1488.9 | 1492.1 |
| 137.5° | 1522.0 | 1523.9 | 1525.5 | 1528.7 | 1531.8 | 1535.0 | 1538.2 | 1541.4 | 1544.6 | 1547.8 | 1551.0 |
| 140°   | 1578.5 | 1579.8 | 1581.6 | 1585.1 | 1588.6 | 1592.1 | 1595.6 | 1598.5 | 1601.3 | 1604.2 | 1607.1 |
| 142.5° | 1628.9 | 1630.0 | 1632.1 | 1636.2 | 1640.4 | 1644.5 | 1648.7 | 1651.3 | 1653.8 | 1656.4 | 1658.9 |
| 145°   | 1673.3 | 1673.1 | 1675.8 | 1681.2 | 1686.7 | 1692.1 | 1697.5 | 1699.7 | 1701.9 | 1704.2 | 1706.4 |
| 147.5° | 1718.1 | 1717.6 | 1720.3 | 1725.7 | 1731.2 | 1736.6 | 1742.0 | 1743.6 | 1745.2 | 1746.7 | 1748.3 |
| 150°   | 1758.8 | 1757.7 | 1760.3 | 1765.4 | 1770.5 | 1775.6 | 1780.7 | 1782.6 | 1784.5 | 1786.4 | 1788.3 |
| 152.5° | 1796.3 | 1795.0 | 1797.4 | 1802.2 | 1807.0 | 1811.8 | 1816.6 | 1818.5 | 1820.4 | 1822.3 | 1824.2 |
| 155°   | 1832.3 | 1830.9 | 1832.8 | 1836.6 | 1840.5 | 1844.3 | 1848.1 | 1850.0 | 1851.9 | 1853.8 | 1855.7 |
| 157.5° | 1863.8 | 1862.5 | 1863.9 | 1866.8 | 1869.7 | 1872.5 | 1875.4 | 1877.6 | 1879.8 | 1882.1 | 1884.3 |
| 160°   | 1892.2 | 1891.2 | 1892.2 | 1894.1 | 1896.0 | 1897.9 | 1899.8 | 1901.7 | 1903.6 | 1905.5 | 1907.4 |
| 162.5° | 1915.1 | 1914.1 | 1914.9 | 1916.5 | 1918.1 | 1919.7 | 1921.3 | 1923.5 | 1925.8 | 1928.0 | 1930.3 |
| 165°   | 1935.2 | 1934.2 | 1934.7 | 1935.6 | 1936.6 | 1937.5 | 1938.5 | 1940.7 | 1943.0 | 1945.2 | 1947.5 |
| 167.5° | 1951.0 | 1950.0 | 1950.5 | 1951.4 | 1952.4 | 1953.3 | 1954.3 | 1956.5 | 1958.8 | 1961.0 | 1963.3 |
| 170°   | 1963.9 | 1962.9 | 1963.2 | 1963.9 | 1964.5 | 1965.2 | 1965.8 | 1968.0 | 1970.2 | 1972.5 | 1974.7 |
| 172.5° | 1972.5 | 1971.5 | 1971.8 | 1972.5 | 1973.1 | 1973.8 | 1974.4 | 1976.6 | 1978.9 | 1981.1 | 1983.4 |
| 175°   | 1978.4 | 1977.3 | 1977.6 | 1978.2 | 1978.9 | 1979.5 | 1980.1 | 1982.3 | 1984.6 | 1986.8 | 1989.1 |
| 177.5° | 1981.2 | 1980.1 | 1980.3 | 1980.6 | 1980.9 | 1981.3 | 1981.6 | 1983.8 | 1986.0 | 1988.3 | 1990.5 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1893.9 | 1898.4 | 1887.8 | 1884.7 | 1887.8 | 1877.1 | 1880.1 | 1883.2 | 1883.2 | 1887.8 | 1890.8 |
| 5°     | 1783.9 | 1777.8 | 1767.1 | 1764.0 | 1761.0 | 1765.6 | 1762.5 | 1767.1 | 1768.6 | 1779.3 | 1780.8 |
| 7.5°   | 1675.5 | 1666.3 | 1657.1 | 1648.0 | 1644.9 | 1637.3 | 1644.9 | 1644.9 | 1655.6 | 1652.6 | 1660.2 |
| 10°    | 1547.2 | 1545.6 | 1533.4 | 1528.8 | 1522.7 | 1510.5 | 1527.3 | 1522.7 | 1530.4 | 1544.1 | 1547.2 |
| 12.5°  | 1452.5 | 1435.7 | 1443.3 | 1421.9 | 1429.6 | 1417.3 | 1418.9 | 1418.9 | 1431.1 | 1432.6 | 1429.6 |
| 15°    | 1362.4 | 1348.6 | 1328.8 | 1319.6 | 1315.0 | 1308.9 | 1328.8 | 1330.3 | 1321.1 | 1342.5 | 1334.9 |
| 17.5°  | 1270.7 | 1270.7 | 1252.4 | 1247.8 | 1235.6 | 1241.7 | 1238.7 | 1240.2 | 1237.1 | 1252.4 | 1260.0 |
| 20°    | 1191.3 | 1183.7 | 1177.6 | 1179.1 | 1163.8 | 1160.8 | 1157.7 | 1160.8 | 1171.4 | 1182.1 | 1185.2 |
| 22.5°  | 1127.2 | 1122.6 | 1107.3 | 1110.4 | 1098.1 | 1102.7 | 1099.7 | 1107.3 | 1108.8 | 1108.8 | 1119.5 |
| 25°    | 1066.1 | 1060.0 | 1061.5 | 1055.4 | 1050.8 | 1050.8 | 1046.2 | 1050.8 | 1056.9 | 1060.0 | 1061.5 |
| 27.5°  | 1020.2 | 1015.7 | 1008.0 | 1003.4 | 1006.5 | 998.9  | 1005.0 | 1009.6 | 1009.6 | 1006.5 | 1009.6 |
| 30°    | 965.3  | 968.3  | 968.3  | 953.0  | 959.2  | 956.1  | 960.7  | 963.7  | 963.7  | 965.3  | 962.2  |
| 32.5°  | 928.6  | 919.4  | 917.9  | 916.4  | 916.4  | 910.3  | 910.3  | 914.9  | 916.4  | 917.9  | 922.5  |
| 35°    | 879.7  | 879.7  | 872.1  | 876.7  | 870.6  | 872.1  | 870.6  | 872.1  | 875.1  | 870.6  | 875.1  |
| 37.5°  | 835.4  | 837.0  | 833.9  | 837.0  | 838.5  | 835.4  | 832.4  | 838.5  | 835.4  | 835.4  | 832.4  |
| 40°    | 797.3  | 795.7  | 797.3  | 797.3  | 797.3  | 798.8  | 795.7  | 795.7  | 795.7  | 792.7  | 789.6  |
| 42.5°  | 765.2  | 756.0  | 759.1  | 760.6  | 756.0  | 756.0  | 757.5  | 756.0  | 760.6  | 751.4  | 751.4  |
| 45°    | 719.4  | 716.3  | 717.8  | 717.8  | 720.9  | 716.3  | 719.4  | 720.9  | 716.3  | 714.8  | 711.7  |
| 47.5°  | 678.1  | 681.2  | 678.1  | 681.2  | 681.2  | 684.2  | 678.1  | 679.7  | 681.2  | 675.1  | 670.5  |
| 50°    | 636.9  | 636.9  | 641.5  | 639.9  | 641.5  | 638.4  | 638.4  | 636.9  | 638.4  | 635.4  | 630.8  |
| 52.5°  | 598.7  | 594.1  | 601.8  | 600.2  | 598.7  | 597.2  | 595.7  | 597.2  | 594.1  | 591.1  | 591.1  |
| 55°    | 551.4  | 551.4  | 555.9  | 557.5  | 557.5  | 554.4  | 551.4  | 552.9  | 551.4  | 549.8  | 548.3  |
| 57.5°  | 513.2  | 507.1  | 510.1  | 511.6  | 511.6  | 507.1  | 510.1  | 507.1  | 507.1  | 508.6  | 504.0  |
| 60°    | 464.3  | 464.3  | 461.2  | 465.8  | 465.8  | 462.8  | 462.8  | 464.3  | 461.2  | 459.7  | 458.2  |
| 62.5°  | 412.4  | 413.9  | 418.5  | 420.0  | 421.5  | 418.5  | 415.4  | 417.0  | 417.0  | 412.4  | 413.9  |
| 65°    | 368.1  | 371.1  | 377.2  | 375.7  | 372.7  | 374.2  | 371.1  | 372.7  | 368.1  | 369.6  | 365.0  |
| 67.5°  | 325.3  | 323.8  | 325.3  | 325.3  | 328.4  | 326.8  | 323.8  | 323.8  | 322.3  | 326.8  | 322.3  |
| 70°    | 279.5  | 279.5  | 279.5  | 279.5  | 281.0  | 282.6  | 279.5  | 276.4  | 278.0  | 274.9  | 273.4  |
| 72.5°  | 232.2  | 233.7  | 232.2  | 235.2  | 230.6  | 233.7  | 233.7  | 232.2  | 230.6  | 230.6  | 230.6  |
| 75°    | 187.9  | 190.9  | 186.3  | 187.9  | 186.3  | 189.4  | 187.9  | 187.9  | 184.8  | 183.3  | 184.8  |
| 77.5°  | 143.6  | 145.1  | 142.0  | 143.6  | 142.0  | 143.6  | 143.6  | 142.0  | 142.0  | 142.0  | 142.0  |
| 80°    | 102.3  | 103.9  | 102.3  | 100.8  | 99.3   | 102.3  | 99.3   | 100.8  | 102.3  | 100.8  | 103.9  |
| 82.5°  | 65.7   | 65.7   | 64.1   | 65.7   | 62.6   | 62.6   | 64.1   | 64.1   | 62.6   | 65.7   | 62.6   |
| 85°    | 32.1   | 32.1   | 35.1   | 32.1   | 30.5   | 30.5   | 30.5   | 32.1   | 30.5   | 33.6   | 32.1   |
| 87.5°  | 7.6    | 6.1    | 7.6    | 7.6    | 6.1    | 6.1    | 7.6    | 6.1    | 7.6    | 9.2    | 6.1    |
| 90°    | 35.9   | 36.2   | 36.8   | 37.5   | 38.1   | 38.7   | 38.1   | 37.5   | 36.8   | 36.2   | 35.9   |
| 92.5°  | 37.3   | 37.5   | 37.8   | 38.1   | 38.4   | 38.7   | 38.4   | 38.1   | 37.8   | 37.5   | 37.3   |
| 95°    | 63.1   | 62.9   | 62.6   | 62.3   | 62.0   | 61.7   | 62.0   | 62.3   | 62.6   | 62.9   | 63.1   |
| 97.5°  | 77.5   | 77.7   | 78.0   | 78.3   | 78.6   | 78.9   | 78.6   | 78.3   | 78.0   | 77.7   | 77.5   |
| 100°   | 93.3   | 93.6   | 94.2   | 94.9   | 95.5   | 96.1   | 95.5   | 94.9   | 94.2   | 93.6   | 93.3   |
| 102.5° | 100.4  | 100.9  | 101.8  | 102.8  | 103.7  | 104.7  | 103.7  | 102.8  | 101.8  | 100.9  | 100.4  |
| 105°   | 103.3  | 103.9  | 105.2  | 106.5  | 107.8  | 109.1  | 107.8  | 106.5  | 105.2  | 103.9  | 103.3  |
| 107.5° | 106.2  | 106.8  | 108.1  | 109.4  | 110.6  | 111.9  | 110.6  | 109.4  | 108.1  | 106.8  | 106.2  |
| 110°   | 107.6  | 108.2  | 109.5  | 110.8  | 112.1  | 113.4  | 112.1  | 110.8  | 109.5  | 108.2  | 107.6  |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 110.5  | 111.0  | 111.9  | 112.9  | 113.8  | 114.8  | 113.8  | 112.9  | 111.9  | 111.0  | 110.5  |
| 115°   | 221.0  | 209.5  | 186.6  | 163.6  | 140.7  | 117.7  | 140.7  | 163.6  | 186.6  | 209.5  | 221.0  |
| 117.5° | 757.6  | 715.8  | 632.3  | 548.8  | 465.2  | 381.7  | 465.2  | 548.8  | 632.3  | 715.8  | 757.6  |
| 120°   | 1069.0 | 1047.5 | 1004.4 | 961.4  | 918.3  | 875.3  | 918.3  | 961.4  | 1004.4 | 1047.5 | 1069.0 |
| 122.5° | 1145.0 | 1145.2 | 1145.5 | 1145.8 | 1146.2 | 1146.5 | 1146.2 | 1145.8 | 1145.5 | 1145.2 | 1145.0 |
| 125°   | 1222.5 | 1223.0 | 1223.9 | 1224.9 | 1225.8 | 1226.8 | 1225.8 | 1224.9 | 1223.9 | 1223.0 | 1222.5 |
| 127.5° | 1297.1 | 1297.3 | 1297.6 | 1297.9 | 1298.3 | 1298.6 | 1298.3 | 1297.9 | 1297.6 | 1297.3 | 1297.1 |
| 130°   | 1366.0 | 1365.8 | 1365.5 | 1365.2 | 1364.9 | 1364.6 | 1364.9 | 1365.2 | 1365.5 | 1365.8 | 1366.0 |
| 132.5° | 1430.6 | 1430.4 | 1430.1 | 1429.8 | 1429.4 | 1429.1 | 1429.4 | 1429.8 | 1430.1 | 1430.4 | 1430.6 |
| 135°   | 1493.7 | 1493.4 | 1492.7 | 1492.1 | 1491.4 | 1490.8 | 1491.4 | 1492.1 | 1492.7 | 1493.4 | 1493.7 |
| 137.5° | 1552.6 | 1552.1 | 1551.1 | 1550.2 | 1549.2 | 1548.2 | 1549.2 | 1550.2 | 1551.1 | 1552.1 | 1552.6 |
| 140°   | 1608.5 | 1607.7 | 1606.1 | 1604.5 | 1602.9 | 1601.3 | 1602.9 | 1604.5 | 1606.1 | 1607.7 | 1608.5 |
| 142.5° | 1660.2 | 1659.4 | 1657.8 | 1656.2 | 1654.6 | 1653.0 | 1654.6 | 1656.2 | 1657.8 | 1659.4 | 1660.2 |
| 145°   | 1707.5 | 1706.7 | 1705.1 | 1703.5 | 1701.9 | 1700.3 | 1701.9 | 1703.5 | 1705.1 | 1706.7 | 1707.5 |
| 147.5° | 1749.1 | 1748.5 | 1747.2 | 1745.9 | 1744.7 | 1743.4 | 1744.7 | 1745.9 | 1747.2 | 1748.5 | 1749.1 |
| 150°   | 1789.3 | 1788.5 | 1786.9 | 1785.3 | 1783.7 | 1782.1 | 1783.7 | 1785.3 | 1786.9 | 1788.5 | 1789.3 |
| 152.5° | 1825.2 | 1824.1 | 1821.8 | 1819.6 | 1817.3 | 1815.1 | 1817.3 | 1819.6 | 1821.8 | 1824.1 | 1825.2 |
| 155°   | 1856.7 | 1855.4 | 1852.9 | 1850.4 | 1847.8 | 1845.3 | 1847.8 | 1850.4 | 1852.9 | 1855.4 | 1856.7 |
| 157.5° | 1885.4 | 1884.1 | 1881.6 | 1879.1 | 1876.5 | 1874.0 | 1876.5 | 1879.1 | 1881.6 | 1884.1 | 1885.4 |
| 160°   | 1908.4 | 1907.3 | 1905.1 | 1902.8 | 1900.6 | 1898.4 | 1900.6 | 1902.8 | 1905.1 | 1907.3 | 1908.4 |
| 162.5° | 1931.4 | 1930.0 | 1927.1 | 1924.2 | 1921.3 | 1918.4 | 1921.3 | 1924.2 | 1927.1 | 1930.0 | 1931.4 |
| 165°   | 1948.6 | 1947.5 | 1945.2 | 1943.0 | 1940.7 | 1938.5 | 1940.7 | 1943.0 | 1945.2 | 1947.5 | 1948.6 |
| 167.5° | 1964.4 | 1963.0 | 1960.1 | 1957.2 | 1954.3 | 1951.4 | 1954.3 | 1957.2 | 1960.1 | 1963.0 | 1964.4 |
| 170°   | 1975.8 | 1974.4 | 1971.5 | 1968.6 | 1965.8 | 1962.9 | 1965.8 | 1968.6 | 1971.5 | 1974.4 | 1975.8 |
| 172.5° | 1984.5 | 1983.1 | 1980.2 | 1977.3 | 1974.4 | 1971.5 | 1974.4 | 1977.3 | 1980.2 | 1983.1 | 1984.5 |
| 175°   | 1990.2 | 1988.6 | 1985.4 | 1982.2 | 1979.0 | 1975.8 | 1979.0 | 1982.2 | 1985.4 | 1988.6 | 1990.2 |
| 177.5° | 1991.6 | 1990.2 | 1987.3 | 1984.4 | 1981.6 | 1978.7 | 1981.6 | 1984.4 | 1987.3 | 1990.2 | 1991.6 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1886.2 | 1898.4 | 1893.9 | 1877.1 | 1896.9 | 1896.9 | 1910.7 | 1910.7 | 1927.5 | 1933.6 | 1942.7 |
| 5°     | 1779.3 | 1788.5 | 1796.1 | 1788.5 | 1802.2 | 1823.6 | 1835.8 | 1846.5 | 1869.4 | 1878.6 | 1892.3 |
| 7.5°   | 1664.8 | 1681.6 | 1689.2 | 1689.2 | 1712.1 | 1736.6 | 1761.0 | 1776.3 | 1808.3 | 1820.6 | 1834.3 |
| 10°    | 1553.3 | 1573.1 | 1588.4 | 1586.9 | 1625.1 | 1640.3 | 1670.9 | 1706.0 | 1738.1 | 1756.4 | 1776.3 |
| 12.5°  | 1435.7 | 1446.4 | 1467.7 | 1498.3 | 1507.5 | 1534.9 | 1570.1 | 1614.4 | 1672.4 | 1689.2 | 1718.2 |
| 15°    | 1337.9 | 1366.9 | 1383.7 | 1397.5 | 1418.9 | 1444.8 | 1483.0 | 1525.8 | 1583.8 | 1620.5 | 1651.0 |
| 17.5°  | 1255.5 | 1293.6 | 1304.3 | 1301.3 | 1328.8 | 1368.5 | 1412.8 | 1444.8 | 1496.8 | 1541.1 | 1570.1 |
| 20°    | 1188.2 | 1203.5 | 1221.8 | 1229.5 | 1250.9 | 1293.6 | 1336.4 | 1373.1 | 1415.8 | 1450.9 | 1484.5 |
| 22.5°  | 1121.0 | 1133.3 | 1148.5 | 1162.3 | 1179.1 | 1203.5 | 1244.8 | 1290.6 | 1331.8 | 1365.4 | 1403.6 |
| 25°    | 1066.1 | 1073.7 | 1087.4 | 1098.1 | 1116.5 | 1133.3 | 1162.3 | 1212.7 | 1261.6 | 1281.4 | 1315.0 |
| 27.5°  | 1012.6 | 1018.7 | 1027.9 | 1040.1 | 1049.3 | 1066.1 | 1092.0 | 1133.3 | 1183.7 | 1203.5 | 1249.3 |
| 30°    | 965.3  | 969.8  | 979.0  | 985.1  | 989.7  | 1009.6 | 1029.4 | 1061.5 | 1099.7 | 1127.2 | 1160.8 |
| 32.5°  | 921.0  | 925.6  | 934.7  | 936.2  | 942.4  | 953.0  | 971.4  | 1000.4 | 1034.0 | 1056.9 | 1085.9 |
| 35°    | 872.1  | 875.1  | 884.3  | 887.4  | 892.0  | 901.1  | 914.9  | 936.2  | 966.8  | 983.6  | 1009.6 |
| 37.5°  | 833.9  | 832.4  | 838.5  | 843.1  | 849.2  | 853.8  | 858.3  | 879.7  | 902.6  | 917.9  | 937.8  |
| 40°    | 792.7  | 789.6  | 791.1  | 797.3  | 800.3  | 806.4  | 806.4  | 827.8  | 843.1  | 855.3  | 870.6  |
| 42.5°  | 751.4  | 749.9  | 746.9  | 749.9  | 753.0  | 754.5  | 756.0  | 771.3  | 786.6  | 797.3  | 814.1  |
| 45°    | 710.2  | 708.7  | 705.6  | 707.1  | 707.1  | 710.2  | 714.8  | 720.9  | 731.6  | 740.7  | 749.9  |
| 47.5°  | 672.0  | 669.0  | 664.4  | 662.9  | 665.9  | 665.9  | 665.9  | 672.0  | 682.7  | 685.8  | 694.9  |
| 50°    | 632.3  | 627.7  | 621.6  | 618.6  | 618.6  | 617.0  | 620.1  | 621.6  | 630.8  | 633.8  | 641.5  |
| 52.5°  | 589.5  | 586.5  | 580.4  | 574.3  | 575.8  | 572.7  | 574.3  | 575.8  | 578.9  | 583.4  | 588.0  |
| 55°    | 546.8  | 540.7  | 536.1  | 534.6  | 530.0  | 530.0  | 525.4  | 531.5  | 530.0  | 531.5  | 537.6  |
| 57.5°  | 505.5  | 499.4  | 491.8  | 488.7  | 484.2  | 482.6  | 479.6  | 478.0  | 479.6  | 484.2  | 488.7  |
| 60°    | 456.7  | 453.6  | 449.0  | 444.4  | 441.4  | 436.8  | 433.8  | 433.8  | 432.2  | 432.2  | 433.8  |
| 62.5°  | 409.3  | 407.8  | 401.7  | 400.2  | 397.1  | 394.0  | 389.5  | 386.4  | 386.4  | 389.5  | 391.0  |
| 65°    | 363.5  | 362.0  | 357.4  | 355.9  | 348.2  | 345.2  | 343.6  | 342.1  | 339.1  | 339.1  | 339.1  |
| 67.5°  | 320.7  | 316.2  | 316.2  | 308.5  | 302.4  | 299.4  | 296.3  | 294.8  | 294.8  | 294.8  | 296.3  |
| 70°    | 273.4  | 273.4  | 268.8  | 264.2  | 258.1  | 259.6  | 255.1  | 250.5  | 250.5  | 247.4  | 249.0  |
| 72.5°  | 227.6  | 226.0  | 221.5  | 219.9  | 215.4  | 210.8  | 207.7  | 210.8  | 206.2  | 204.7  | 206.2  |
| 75°    | 183.3  | 181.8  | 178.7  | 175.6  | 177.2  | 172.6  | 168.0  | 166.5  | 166.5  | 163.4  | 163.4  |
| 77.5°  | 140.5  | 143.6  | 137.5  | 135.9  | 132.9  | 129.8  | 128.3  | 126.8  | 126.8  | 126.8  | 129.8  |
| 80°    | 97.7   | 99.3   | 99.3   | 96.2   | 97.7   | 93.2   | 93.2   | 93.2   | 88.6   | 90.1   | 91.6   |
| 82.5°  | 62.6   | 62.6   | 61.1   | 62.6   | 61.1   | 61.1   | 59.6   | 59.6   | 58.0   | 58.0   | 59.6   |
| 85°    | 35.1   | 33.6   | 32.1   | 35.1   | 33.6   | 33.6   | 32.1   | 32.1   | 32.1   | 32.1   | 32.1   |
| 87.5°  | 7.6    | 9.2    | 9.2    | 9.2    | 9.2    | 10.7   | 10.7   | 10.7   | 12.2   | 12.2   | 12.2   |
| 90°    | 35.1   | 33.5   | 31.9   | 30.3   | 28.7   | 26.1   | 23.6   | 21.0   | 18.5   | 17.2   | 15.4   |
| 92.5°  | 37.0   | 36.3   | 35.7   | 35.0   | 34.4   | 33.4   | 32.5   | 31.5   | 30.6   | 30.1   | 30.7   |
| 95°    | 62.3   | 60.7   | 59.2   | 57.6   | 56.0   | 53.8   | 51.5   | 49.3   | 47.0   | 45.9   | 51.2   |
| 97.5°  | 77.0   | 76.1   | 75.1   | 74.2   | 73.2   | 68.1   | 63.0   | 57.9   | 52.8   | 50.2   | 63.3   |
| 100°   | 92.0   | 89.5   | 86.9   | 84.4   | 81.8   | 76.4   | 71.0   | 65.5   | 60.1   | 57.4   | 79.2   |
| 102.5° | 98.7   | 95.2   | 91.7   | 88.2   | 84.7   | 142.7  | 200.7  | 258.8  | 316.8  | 345.8  | 346.1  |
| 105°   | 101.5  | 98.0   | 94.5   | 91.0   | 87.5   | 174.6  | 261.6  | 348.7  | 435.8  | 479.3  | 474.5  |
| 107.5° | 104.4  | 100.9  | 97.4   | 93.9   | 90.4   | 197.9  | 305.3  | 412.8  | 520.3  | 574.0  | 570.0  |
| 110°   | 123.5  | 155.4  | 187.3  | 219.2  | 251.1  | 343.3  | 435.4  | 527.6  | 619.7  | 665.8  | 662.5  |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 179.2  | 316.6  | 454.1  | 591.5  | 728.9  | 734.3  | 739.7  | 745.2  | 750.6  | 753.3  | 750.4  |
| 115°   | 294.8  | 442.4  | 590.1  | 737.7  | 885.3  | 877.3  | 869.4  | 861.4  | 853.5  | 849.5  | 846.8  |
| 117.5° | 780.4  | 826.0  | 871.6  | 917.2  | 962.8  | 957.4  | 952.0  | 946.5  | 941.1  | 938.4  | 935.2  |
| 120°   | 1067.1 | 1063.3 | 1059.4 | 1055.6 | 1051.8 | 1046.0 | 1040.3 | 1034.5 | 1028.8 | 1025.9 | 1023.5 |
| 122.5° | 1144.0 | 1142.1 | 1140.2 | 1138.3 | 1136.4 | 1130.0 | 1123.6 | 1117.3 | 1110.9 | 1107.7 | 1105.2 |
| 125°   | 1221.4 | 1219.2 | 1216.9 | 1214.7 | 1212.5 | 1206.4 | 1200.4 | 1194.3 | 1188.2 | 1185.2 | 1183.1 |
| 127.5° | 1295.5 | 1292.3 | 1289.2 | 1286.0 | 1282.8 | 1278.0 | 1273.2 | 1268.5 | 1263.7 | 1261.3 | 1259.1 |
| 130°   | 1364.2 | 1360.7 | 1357.2 | 1353.7 | 1350.2 | 1346.7 | 1343.2 | 1339.7 | 1336.2 | 1334.4 | 1331.9 |
| 132.5° | 1429.2 | 1426.3 | 1423.4 | 1420.6 | 1417.7 | 1414.2 | 1410.7 | 1407.2 | 1403.7 | 1401.9 | 1399.8 |
| 135°   | 1492.1 | 1488.9 | 1485.8 | 1482.6 | 1479.4 | 1476.5 | 1473.7 | 1470.8 | 1467.9 | 1466.5 | 1463.9 |
| 137.5° | 1551.0 | 1547.8 | 1544.6 | 1541.4 | 1538.2 | 1535.0 | 1531.8 | 1528.7 | 1525.5 | 1523.9 | 1522.0 |
| 140°   | 1607.1 | 1604.2 | 1601.3 | 1598.5 | 1595.6 | 1592.1 | 1588.6 | 1585.1 | 1581.6 | 1579.8 | 1578.5 |
| 142.5° | 1658.9 | 1656.4 | 1653.8 | 1651.3 | 1648.7 | 1644.5 | 1640.4 | 1636.2 | 1632.1 | 1630.0 | 1628.9 |
| 145°   | 1706.4 | 1704.2 | 1701.9 | 1699.7 | 1697.5 | 1692.1 | 1686.7 | 1681.2 | 1675.8 | 1673.1 | 1673.3 |
| 147.5° | 1748.3 | 1746.7 | 1745.2 | 1743.6 | 1742.0 | 1736.6 | 1731.2 | 1725.7 | 1720.3 | 1717.6 | 1718.1 |
| 150°   | 1788.3 | 1786.4 | 1784.5 | 1782.6 | 1780.7 | 1775.6 | 1770.5 | 1765.4 | 1760.3 | 1757.7 | 1758.8 |
| 152.5° | 1824.2 | 1822.3 | 1820.4 | 1818.5 | 1816.6 | 1811.8 | 1807.0 | 1802.2 | 1797.4 | 1795.0 | 1796.3 |
| 155°   | 1855.7 | 1853.8 | 1851.9 | 1850.0 | 1848.1 | 1844.3 | 1840.5 | 1836.6 | 1832.8 | 1830.9 | 1832.3 |
| 157.5° | 1884.3 | 1882.1 | 1879.8 | 1877.6 | 1875.4 | 1872.5 | 1869.7 | 1866.8 | 1863.9 | 1862.5 | 1863.8 |
| 160°   | 1907.4 | 1905.5 | 1903.6 | 1901.7 | 1899.8 | 1897.9 | 1896.0 | 1894.1 | 1892.2 | 1891.2 | 1892.2 |
| 162.5° | 1930.3 | 1928.0 | 1925.8 | 1923.5 | 1921.3 | 1919.7 | 1918.1 | 1916.5 | 1914.9 | 1914.1 | 1915.1 |
| 165°   | 1947.5 | 1945.2 | 1943.0 | 1940.7 | 1938.5 | 1937.5 | 1936.6 | 1935.6 | 1934.7 | 1934.2 | 1935.2 |
| 167.5° | 1963.3 | 1961.0 | 1958.8 | 1956.5 | 1954.3 | 1953.3 | 1952.4 | 1951.4 | 1950.5 | 1950.0 | 1951.0 |
| 170°   | 1974.7 | 1972.5 | 1970.2 | 1968.0 | 1965.8 | 1965.2 | 1964.5 | 1963.9 | 1963.2 | 1962.9 | 1963.9 |
| 172.5° | 1983.4 | 1981.1 | 1978.9 | 1976.6 | 1974.4 | 1973.8 | 1973.1 | 1972.5 | 1971.8 | 1971.5 | 1972.5 |
| 175°   | 1989.1 | 1986.8 | 1984.6 | 1982.3 | 1980.1 | 1979.5 | 1978.9 | 1978.2 | 1977.6 | 1977.3 | 1978.4 |
| 177.5° | 1990.5 | 1988.3 | 1986.0 | 1983.8 | 1981.6 | 1981.3 | 1980.9 | 1980.6 | 1980.3 | 1980.1 | 1981.2 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1987.0 | 1987.0 | 1987.0 | 1987.0 |
| 2.5°   | 1950.4 | 1950.4 | 1973.3 | 1997.7 |
| 5°     | 1907.6 | 1918.3 | 1955.0 | 1988.6 |
| 7.5°   | 1866.4 | 1884.7 | 1930.5 | 1973.3 |
| 10°    | 1816.0 | 1840.4 | 1896.9 | 1947.3 |
| 12.5°  | 1767.1 | 1790.0 | 1855.7 | 1912.2 |
| 15°    | 1698.4 | 1727.4 | 1797.6 | 1867.9 |
| 17.5°  | 1629.6 | 1658.7 | 1744.2 | 1826.7 |
| 20°    | 1548.7 | 1586.9 | 1683.1 | 1793.1 |
| 22.5°  | 1473.9 | 1521.2 | 1628.1 | 1716.7 |
| 25°    | 1391.4 | 1464.7 | 1564.0 | 1678.5 |
| 27.5°  | 1318.1 | 1391.4 | 1492.2 | 1608.3 |
| 30°    | 1235.6 | 1310.4 | 1414.3 | 1521.2 |
| 32.5°  | 1156.2 | 1224.9 | 1325.7 | 1457.1 |
| 35°    | 1073.7 | 1139.4 | 1237.1 | 1370.0 |
| 37.5°  | 998.9  | 1063.0 | 1169.9 | 1292.1 |
| 40°    | 925.6  | 992.8  | 1084.4 | 1206.6 |
| 42.5°  | 856.8  | 916.4  | 998.9  | 1121.0 |
| 45°    | 794.2  | 837.0  | 913.3  | 1027.9 |
| 47.5°  | 728.5  | 766.7  | 837.0  | 951.5  |
| 50°    | 667.4  | 699.5  | 760.6  | 867.5  |
| 52.5°  | 607.9  | 635.4  | 691.9  | 777.4  |
| 55°    | 554.4  | 580.4  | 621.6  | 705.6  |
| 57.5°  | 499.4  | 519.3  | 559.0  | 626.2  |
| 60°    | 446.0  | 464.3  | 496.4  | 551.4  |
| 62.5°  | 392.5  | 407.8  | 438.3  | 482.6  |
| 65°    | 345.2  | 357.4  | 380.3  | 418.5  |
| 67.5°  | 299.4  | 307.0  | 325.3  | 355.9  |
| 70°    | 255.1  | 261.2  | 276.4  | 300.9  |
| 72.5°  | 207.7  | 213.8  | 230.6  | 247.4  |
| 75°    | 168.0  | 169.5  | 181.8  | 195.5  |
| 77.5°  | 131.3  | 129.8  | 139.0  | 149.7  |
| 80°    | 90.1   | 94.7   | 102.3  | 106.9  |
| 82.5°  | 61.1   | 62.6   | 65.7   | 68.7   |
| 85°    | 33.6   | 35.1   | 35.1   | 39.7   |
| 87.5°  | 13.7   | 15.3   | 15.3   | 16.8   |
| 90°    | 11.9   | 8.4    | 4.9    | 1.4    |
| 92.5°  | 32.0   | 33.3   | 34.6   | 35.9   |
| 95°    | 61.7   | 72.2   | 82.8   | 93.3   |
| 97.5°  | 89.4   | 115.6  | 141.7  | 167.9  |
| 100°   | 122.9  | 166.6  | 210.3  | 254.0  |
| 102.5° | 346.8  | 347.4  | 348.1  | 348.7  |
| 105°   | 464.9  | 455.4  | 445.8  | 436.2  |
| 107.5° | 562.0  | 554.1  | 546.1  | 538.1  |
| 110°   | 655.8  | 649.1  | 642.4  | 635.7  |



TEST NUMBER: P1029192

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 744.7  | 739.0  | 733.2  | 727.5  |
| 115°   | 841.4  | 835.9  | 830.5  | 825.1  |
| 117.5° | 928.8  | 922.5  | 916.1  | 909.7  |
| 120°   | 1018.7 | 1014.0 | 1009.2 | 1004.4 |
| 122.5° | 1100.1 | 1095.0 | 1089.9 | 1084.8 |
| 125°   | 1179.0 | 1174.9 | 1170.7 | 1166.6 |
| 127.5° | 1254.6 | 1250.1 | 1245.7 | 1241.2 |
| 130°   | 1326.8 | 1321.7 | 1316.6 | 1311.5 |
| 132.5° | 1395.7 | 1391.5 | 1387.4 | 1383.2 |
| 135°   | 1458.8 | 1453.7 | 1448.6 | 1443.5 |
| 137.5° | 1518.1 | 1514.3 | 1510.4 | 1506.6 |
| 140°   | 1576.0 | 1573.4 | 1570.9 | 1568.3 |
| 142.5° | 1626.7 | 1624.4 | 1622.2 | 1620.0 |
| 145°   | 1673.6 | 1673.9 | 1674.2 | 1674.5 |
| 147.5° | 1719.0 | 1720.0 | 1720.9 | 1721.9 |
| 150°   | 1761.1 | 1763.3 | 1765.6 | 1767.8 |
| 152.5° | 1798.8 | 1801.4 | 1803.9 | 1806.5 |
| 155°   | 1835.2 | 1838.1 | 1840.9 | 1843.8 |
| 157.5° | 1866.3 | 1868.9 | 1871.4 | 1874.0 |
| 160°   | 1894.1 | 1896.0 | 1897.9 | 1899.8 |
| 162.5° | 1917.0 | 1918.9 | 1920.9 | 1922.8 |
| 165°   | 1937.1 | 1939.0 | 1940.9 | 1942.8 |
| 167.5° | 1952.9 | 1954.8 | 1956.7 | 1958.6 |
| 170°   | 1965.8 | 1967.7 | 1969.6 | 1971.5 |
| 172.5° | 1974.4 | 1976.3 | 1978.2 | 1980.1 |
| 175°   | 1980.6 | 1982.9 | 1985.1 | 1987.3 |
| 177.5° | 1983.5 | 1985.7 | 1988.0 | 1990.2 |
| 180°   | 1983.0 | 1983.0 | 1983.0 | 1983.0 |

(END OF REPORT)