

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: P1010820

Luminaire Tested: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1010820  
REPORT IS A COMBINATION OF REPORTS P992926 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K  
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

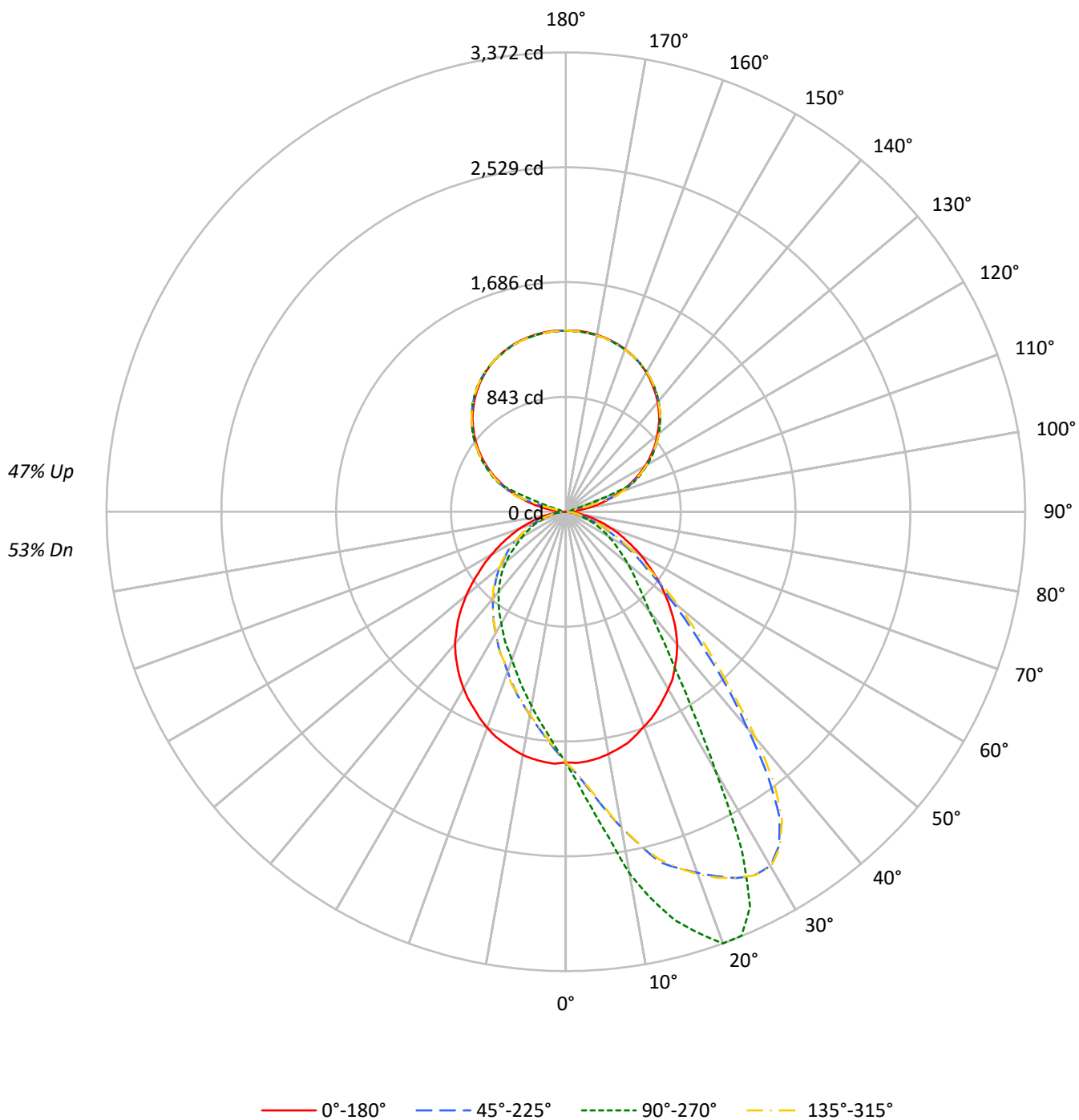
Lumens per Lamp: N/A  
Luminaire Lumens: 8639.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 89.8  
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: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1010820

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 | 53 | 53 |
| 1   | 99  | 95  | 91  | 88  | 92  | 88  | 85  | 82  | 76 | 73 | 71 | 64 | 62 | 61 | 53 | 52 | 51 | 46 | 46 | 46 |
| 2   | 91  | 84  | 78  | 73  | 84  | 78  | 73  | 68  | 67 | 63 | 60 | 57 | 54 | 52 | 47 | 46 | 44 | 40 | 40 | 40 |
| 3   | 83  | 74  | 67  | 61  | 77  | 69  | 63  | 58  | 60 | 55 | 51 | 51 | 47 | 44 | 43 | 40 | 38 | 34 | 34 | 34 |
| 4   | 76  | 66  | 58  | 53  | 71  | 62  | 55  | 50  | 53 | 48 | 44 | 46 | 42 | 39 | 38 | 36 | 33 | 30 | 30 | 30 |
| 5   | 70  | 59  | 51  | 45  | 65  | 55  | 48  | 43  | 48 | 43 | 38 | 41 | 37 | 34 | 35 | 32 | 29 | 26 | 26 | 26 |
| 6   | 65  | 53  | 45  | 40  | 60  | 50  | 43  | 38  | 43 | 38 | 34 | 37 | 33 | 30 | 32 | 29 | 26 | 23 | 23 | 23 |
| 7   | 60  | 48  | 40  | 35  | 56  | 45  | 38  | 33  | 40 | 34 | 30 | 34 | 30 | 27 | 29 | 26 | 23 | 21 | 21 | 21 |
| 8   | 56  | 44  | 36  | 31  | 52  | 41  | 34  | 30  | 36 | 31 | 27 | 31 | 27 | 24 | 27 | 24 | 21 | 19 | 19 | 19 |
| 9   | 52  | 40  | 33  | 28  | 48  | 38  | 31  | 27  | 33 | 28 | 24 | 29 | 25 | 22 | 25 | 22 | 19 | 17 | 17 | 17 |
| 10  | 49  | 37  | 30  | 25  | 45  | 35  | 28  | 24  | 31 | 25 | 22 | 27 | 23 | 20 | 23 | 20 | 18 | 16 | 16 | 16 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 19807 | 19807 | 19807 | 19807 |
| 5°  | 19822 | 22812 | 19873 | 16924 |
| 10° | 19647 | 27538 | 19732 | 14782 |
| 15° | 19445 | 31253 | 19445 | 13034 |
| 20° | 19045 | 33712 | 19153 | 11563 |
| 25° | 18754 | 32028 | 18718 | 10550 |
| 30° | 18415 | 22191 | 18376 | 9560  |
| 35° | 18006 | 14248 | 17925 | 8814  |
| 40° | 17498 | 10061 | 17411 | 8071  |
| 45° | 16613 | 8052  | 16589 | 7349  |
| 50° | 15525 | 6735  | 15474 | 6503  |
| 55° | 14302 | 5551  | 14187 | 5513  |
| 60° | 13101 | 4588  | 12971 | 4689  |
| 65° | 11693 | 3671  | 11768 | 3974  |
| 70° | 10392 | 2550  | 10672 | 3213  |
| 75° | 8810  | 1892  | 9168  | 2471  |
| 80° | 7014  | 1255  | 7611  | 1853  |
| 85° | 4995  | 594   | 5446  | 1153  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 26443 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.7  | 2.1       |
| 10°-20°   | 565.7  | 6.5       |
| 20°-30°   | 890.9  | 10.3      |
| 30°-40°   | 926.4  | 10.7      |
| 40°-50°   | 792.6  | 9.2       |
| 50°-60°   | 604.3  | 7.0       |
| 60°-70°   | 387.1  | 4.5       |
| 70°-80°   | 185.5  | 2.1       |
| 80°-90°   | 51.4   | 0.6       |
| 90°-100°  | 46.9   | 0.5       |
| 100°-110° | 226.7  | 2.6       |
| 110°-120° | 555.6  | 6.4       |
| 120°-130° | 705.4  | 8.2       |
| 130°-140° | 753.5  | 8.7       |
| 140°-150° | 704.6  | 8.2       |
| 150°-160° | 568.4  | 6.6       |
| 160°-170° | 366.8  | 4.2       |
| 170°-180° | 126.4  | 1.5       |
| 0°-30°    | 1637.3 | 19.0      |
| 0°-40°    | 2563.8 | 29.7      |
| 0°-60°    | 3960.6 | 45.8      |
| 0°-90°    | 4584.7 | 53.1      |
| 90°-120°  | 829.3  | 9.6       |
| 90°-150°  | 2992.8 | 34.6      |
| 90°-180°  | 4054.0 | 46.9      |
| 0°-180°   | 8639.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1840 | 1840 | 1840 | 1840 | 1840 |      |
| 5°   | 1838 | 2185 | 1843 | 1621 | 1838 | 174  |
| 15°  | 1757 | 3105 | 1757 | 1295 | 1757 | 494  |
| 25°  | 1598 | 3200 | 1594 | 1054 | 1598 | 736  |
| 35°  | 1394 | 1388 | 1388 | 859  | 1394 | 873  |
| 45°  | 1119 | 740  | 1117 | 676  | 1119 | 861  |
| 55°  | 789  | 465  | 783  | 462  | 789  | 707  |
| 65°  | 484  | 268  | 487  | 290  | 484  | 483  |
| 75°  | 232  | 113  | 241  | 148  | 232  | 250  |
| 85°  | 52   | 27   | 57   | 52   | 52   | 58   |
| 90°  | 1    | 30   | 1    | 30   | 1    | 6    |
| 95°  | 60   | 38   | 60   | 38   | 60   | 72   |
| 105° | 294  | 44   | 294  | 44   | 294  | 312  |
| 115° | 552  | 581  | 552  | 581  | 552  | 545  |
| 125° | 779  | 794  | 779  | 794  | 779  | 696  |
| 135° | 969  | 979  | 969  | 979  | 969  | 746  |
| 145° | 1118 | 1129 | 1118 | 1129 | 1118 | 700  |
| 155° | 1232 | 1230 | 1232 | 1230 | 1232 | 568  |
| 165° | 1299 | 1296 | 1299 | 1296 | 1299 | 367  |
| 175° | 1330 | 1325 | 1330 | 1325 | 1330 | 127  |
| 180° | 1330 | 1330 | 1330 | 1330 | 1330 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1844.8 | 1857.4 | 1866.9 | 1873.2 | 1889.0 | 1898.4 | 1906.3 | 1920.5 | 1920.5 | 1923.6 | 1929.9 |
| 5°     | 1838.5 | 1865.3 | 1884.2 | 1909.4 | 1942.5 | 1958.3 | 1980.3 | 1999.2 | 2026.0 | 2040.2 | 2054.4 |
| 7.5°   | 1824.4 | 1862.2 | 1901.6 | 1939.4 | 1988.2 | 2019.7 | 2041.8 | 2090.6 | 2125.3 | 2167.8 | 2200.9 |
| 10°    | 1805.5 | 1857.4 | 1907.9 | 1966.2 | 2032.3 | 2079.6 | 2112.7 | 2177.3 | 2243.4 | 2303.3 | 2353.7 |
| 12.5°  | 1781.8 | 1844.8 | 1917.3 | 1988.2 | 2081.2 | 2128.4 | 2182.0 | 2262.3 | 2356.9 | 2432.5 | 2500.2 |
| 15°    | 1756.6 | 1829.1 | 1911.0 | 1997.7 | 2114.2 | 2180.4 | 2257.6 | 2355.3 | 2460.8 | 2569.6 | 2662.5 |
| 17.5°  | 1717.2 | 1808.6 | 1900.0 | 2026.0 | 2163.1 | 2202.5 | 2268.6 | 2402.6 | 2533.3 | 2631.0 | 2744.4 |
| 20°    | 1677.8 | 1780.3 | 1895.3 | 2008.7 | 2156.8 | 2248.2 | 2309.6 | 2451.4 | 2591.6 | 2709.8 | 2818.5 |
| 22.5°  | 1641.6 | 1748.7 | 1868.5 | 2011.8 | 2150.5 | 2241.9 | 2319.1 | 2467.1 | 2629.4 | 2761.8 | 2895.7 |
| 25°    | 1597.5 | 1714.1 | 1846.4 | 1981.9 | 2150.5 | 2219.8 | 2304.9 | 2476.6 | 2648.3 | 2801.1 | 2966.6 |
| 27.5°  | 1550.2 | 1668.4 | 1799.2 | 1937.8 | 2092.2 | 2194.6 | 2278.1 | 2462.4 | 2672.0 | 2835.8 | 3005.9 |
| 30°    | 1503.0 | 1624.3 | 1750.3 | 1874.8 | 2048.1 | 2145.8 | 2241.9 | 2445.1 | 2684.6 | 2872.0 | 3002.8 |
| 32.5°  | 1457.3 | 1559.7 | 1684.2 | 1805.5 | 1977.2 | 2084.3 | 2193.0 | 2427.8 | 2689.3 | 2846.8 | 2909.8 |
| 35°    | 1394.3 | 1501.4 | 1602.2 | 1731.4 | 1904.7 | 2010.3 | 2137.9 | 2426.2 | 2668.8 | 2766.5 | 2735.0 |
| 37.5°  | 1336.0 | 1425.8 | 1521.9 | 1636.9 | 1814.9 | 1952.0 | 2084.3 | 2385.2 | 2601.1 | 2607.4 | 2429.3 |
| 40°    | 1271.4 | 1345.4 | 1425.8 | 1547.1 | 1739.3 | 1874.8 | 2018.1 | 2322.2 | 2478.2 | 2385.2 | 2071.7 |
| 42.5°  | 1197.3 | 1263.5 | 1326.5 | 1444.7 | 1654.2 | 1805.5 | 1959.9 | 2243.4 | 2300.1 | 2085.9 | 1759.8 |
| 45°    | 1118.6 | 1172.1 | 1230.4 | 1354.9 | 1564.4 | 1714.1 | 1868.5 | 2122.1 | 2063.8 | 1761.3 | 1451.0 |
| 47.5°  | 1036.6 | 1082.3 | 1139.0 | 1252.5 | 1468.3 | 1621.1 | 1767.6 | 1948.8 | 1800.7 | 1476.2 | 1216.2 |
| 50°    | 954.7  | 991.0  | 1046.1 | 1162.7 | 1370.6 | 1509.3 | 1644.8 | 1762.9 | 1555.0 | 1266.7 | 1005.1 |
| 52.5°  | 874.4  | 902.7  | 959.4  | 1058.7 | 1260.4 | 1392.7 | 1490.4 | 1536.1 | 1324.9 | 1046.1 | 872.8  |
| 55°    | 789.3  | 820.8  | 858.6  | 959.4  | 1159.5 | 1257.2 | 1321.8 | 1320.2 | 1102.8 | 887.0  | 721.6  |
| 57.5°  | 707.4  | 735.7  | 768.8  | 869.6  | 1031.9 | 1098.1 | 1153.2 | 1126.4 | 920.1  | 726.3  | 619.1  |
| 60°    | 634.9  | 650.7  | 686.9  | 772.0  | 894.9  | 951.6  | 983.1  | 937.4  | 751.5  | 612.8  | 512.0  |
| 62.5°  | 556.1  | 571.9  | 601.8  | 682.2  | 757.8  | 787.7  | 814.5  | 756.2  | 620.7  | 499.4  | 438.0  |
| 65°    | 483.7  | 504.1  | 523.0  | 587.6  | 628.6  | 664.8  | 661.7  | 612.8  | 485.2  | 406.5  | 356.1  |
| 67.5°  | 420.6  | 428.5  | 444.3  | 483.7  | 502.6  | 529.3  | 530.9  | 475.8  | 390.7  | 330.8  | 300.9  |
| 70°    | 352.9  | 360.8  | 371.8  | 390.7  | 403.3  | 409.6  | 406.5  | 357.6  | 294.6  | 258.4  | 231.6  |
| 72.5°  | 294.6  | 293.0  | 300.9  | 300.9  | 313.5  | 311.9  | 302.5  | 264.7  | 223.7  | 193.8  | 178.0  |
| 75°    | 231.6  | 233.2  | 234.7  | 231.6  | 226.9  | 220.6  | 212.7  | 184.3  | 157.5  | 143.4  | 129.2  |
| 77.5°  | 181.2  | 178.0  | 179.6  | 168.6  | 162.3  | 156.0  | 144.9  | 130.8  | 108.7  | 105.6  | 99.3   |
| 80°    | 129.2  | 127.6  | 126.0  | 121.3  | 107.1  | 100.8  | 93.0   | 85.1   | 80.3   | 77.2   | 75.6   |
| 82.5°  | 86.6   | 86.6   | 83.5   | 74.0   | 66.2   | 61.4   | 59.9   | 56.7   | 52.0   | 52.0   | 50.4   |
| 85°    | 52.0   | 50.4   | 47.3   | 37.8   | 33.1   | 33.1   | 33.1   | 33.1   | 29.9   | 29.9   | 28.4   |
| 87.5°  | 20.5   | 18.9   | 14.2   | 14.2   | 12.6   | 12.6   | 12.6   | 11.0   | 11.0   | 9.5    | 9.5    |
| 90°    | 1.0    | 3.2    | 5.4    | 7.6    | 9.8    | 10.9   | 12.3   | 15.2   | 18.0   | 20.9   | 23.7   |
| 92.5°  | 22.7   | 21.4   | 20.1   | 18.8   | 17.5   | 16.8   | 17.8   | 19.8   | 21.7   | 23.7   | 25.7   |
| 95°    | 60.3   | 51.3   | 42.3   | 33.3   | 24.3   | 19.8   | 21.0   | 23.4   | 25.8   | 28.2   | 30.6   |
| 97.5°  | 109.7  | 103.5  | 97.4   | 91.2   | 85.1   | 82.0   | 76.4   | 65.2   | 54.0   | 42.8   | 31.6   |
| 100°   | 167.0  | 171.4  | 175.8  | 180.1  | 184.5  | 186.7  | 169.6  | 135.3  | 101.1  | 66.8   | 32.6   |
| 102.5° | 232.2  | 235.0  | 237.9  | 240.7  | 243.6  | 245.0  | 225.9  | 187.7  | 149.5  | 111.3  | 73.1   |
| 105°   | 294.4  | 296.8  | 299.2  | 301.7  | 304.1  | 305.3  | 295.4  | 275.7  | 255.9  | 236.2  | 216.4  |
| 107.5° | 360.6  | 362.6  | 364.6  | 366.5  | 368.5  | 369.5  | 371.1  | 374.4  | 377.7  | 381.0  | 384.3  |
| 110°   | 426.8  | 428.6  | 430.3  | 432.1  | 433.8  | 434.7  | 435.9  | 438.3  | 440.8  | 443.2  | 445.6  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.1  | 491.6  | 493.2  | 494.7  | 496.2  | 497.0  | 498.2  | 500.6  | 503.1  | 505.5  | 507.9  |
| 115°   | 552.3  | 553.6  | 554.9  | 556.2  | 557.5  | 558.2  | 559.2  | 561.2  | 563.1  | 565.1  | 567.1  |
| 117.5° | 613.6  | 615.1  | 616.7  | 618.2  | 619.7  | 620.5  | 621.0  | 622.1  | 623.2  | 624.3  | 625.4  |
| 120°   | 669.9  | 671.9  | 673.9  | 675.8  | 677.8  | 678.8  | 679.1  | 679.8  | 680.5  | 681.1  | 681.8  |
| 122.5° | 727.2  | 728.7  | 730.3  | 731.8  | 733.3  | 734.1  | 734.5  | 735.4  | 736.3  | 737.2  | 738.1  |
| 125°   | 778.6  | 780.4  | 782.1  | 783.9  | 785.6  | 786.5  | 786.9  | 787.8  | 788.7  | 789.5  | 790.4  |
| 127.5° | 830.0  | 831.8  | 833.5  | 835.3  | 837.0  | 837.9  | 838.4  | 839.5  | 840.6  | 841.7  | 842.8  |
| 130°   | 877.4  | 879.2  | 880.9  | 882.7  | 884.4  | 885.3  | 885.7  | 886.6  | 887.5  | 888.3  | 889.2  |
| 132.5° | 922.8  | 924.6  | 926.3  | 928.1  | 929.8  | 930.7  | 931.0  | 931.7  | 932.4  | 933.0  | 933.7  |
| 135°   | 969.3  | 970.6  | 971.9  | 973.2  | 974.5  | 975.2  | 975.6  | 976.5  | 977.4  | 978.3  | 979.2  |
| 137.5° | 1008.8 | 1010.6 | 1012.3 | 1014.1 | 1015.8 | 1016.7 | 1016.9 | 1017.4 | 1017.8 | 1018.3 | 1018.7 |
| 140°   | 1048.3 | 1049.6 | 1050.9 | 1052.2 | 1053.5 | 1054.2 | 1054.5 | 1055.2 | 1055.9 | 1056.5 | 1057.2 |
| 142.5° | 1084.9 | 1086.2 | 1087.5 | 1088.8 | 1090.1 | 1090.8 | 1091.1 | 1091.8 | 1092.5 | 1093.1 | 1093.8 |
| 145°   | 1118.5 | 1120.0 | 1121.6 | 1123.1 | 1124.6 | 1125.4 | 1125.6 | 1126.1 | 1126.5 | 1127.0 | 1127.4 |
| 147.5° | 1151.1 | 1152.2 | 1153.3 | 1154.4 | 1155.5 | 1156.0 | 1156.2 | 1156.7 | 1157.1 | 1157.6 | 1158.0 |
| 150°   | 1180.7 | 1181.4 | 1182.0 | 1182.7 | 1183.4 | 1183.7 | 1183.9 | 1184.4 | 1184.8 | 1185.3 | 1185.7 |
| 152.5° | 1207.4 | 1207.6 | 1207.8 | 1208.1 | 1208.3 | 1208.4 | 1208.5 | 1208.7 | 1209.0 | 1209.2 | 1209.4 |
| 155°   | 1232.1 | 1231.7 | 1231.2 | 1230.8 | 1230.3 | 1230.1 | 1230.2 | 1230.4 | 1230.7 | 1230.9 | 1231.1 |
| 157.5° | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.8 | 1251.6 | 1251.3 | 1251.1 | 1250.9 |
| 160°   | 1269.6 | 1269.4 | 1269.2 | 1269.0 | 1268.8 | 1268.7 | 1268.6 | 1268.4 | 1268.1 | 1267.9 | 1267.7 |
| 162.5° | 1286.4 | 1285.8 | 1285.1 | 1284.5 | 1283.8 | 1283.5 | 1283.4 | 1283.2 | 1282.9 | 1282.7 | 1282.5 |
| 165°   | 1299.3 | 1298.6 | 1298.0 | 1297.3 | 1296.6 | 1296.3 | 1296.2 | 1296.0 | 1295.7 | 1295.5 | 1295.3 |
| 167.5° | 1310.1 | 1309.2 | 1308.4 | 1307.5 | 1306.6 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.2 |
| 170°   | 1319.0 | 1318.1 | 1317.3 | 1316.4 | 1315.5 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.1 |
| 172.5° | 1325.0 | 1323.9 | 1322.8 | 1321.7 | 1320.6 | 1320.0 | 1320.1 | 1320.3 | 1320.6 | 1320.8 | 1321.0 |
| 175°   | 1329.9 | 1328.8 | 1327.7 | 1326.6 | 1325.5 | 1325.0 | 1325.1 | 1325.3 | 1325.6 | 1325.8 | 1326.0 |
| 177.5° | 1331.9 | 1330.8 | 1329.7 | 1328.6 | 1327.5 | 1326.9 | 1327.0 | 1327.2 | 1327.5 | 1327.7 | 1327.9 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

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CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1942.5 | 1942.5 | 1956.7 | 1970.9 | 1963.0 | 1967.7 | 1985.1 | 1978.8 | 1991.4 | 1989.8 | 1994.5 |
| 5°     | 2089.0 | 2106.4 | 2120.5 | 2150.5 | 2155.2 | 2150.5 | 2180.4 | 2188.3 | 2202.5 | 2185.1 | 2193.0 |
| 7.5°   | 2254.5 | 2290.7 | 2325.4 | 2369.5 | 2383.6 | 2386.8 | 2402.6 | 2424.6 | 2443.5 | 2408.9 | 2426.2 |
| 10°    | 2415.2 | 2470.3 | 2541.2 | 2580.6 | 2615.2 | 2627.8 | 2640.4 | 2654.6 | 2676.7 | 2697.2 | 2681.4 |
| 12.5°  | 2588.5 | 2668.8 | 2736.5 | 2807.4 | 2850.0 | 2845.3 | 2881.5 | 2890.9 | 2908.3 | 2913.0 | 2919.3 |
| 15°    | 2730.2 | 2843.7 | 2886.2 | 2991.8 | 3001.2 | 3032.7 | 3073.7 | 3109.9 | 3114.7 | 3105.2 | 3105.2 |
| 17.5°  | 2865.7 | 2963.4 | 3039.0 | 3124.1 | 3141.4 | 3168.2 | 3220.2 | 3237.5 | 3243.8 | 3242.3 | 3242.3 |
| 20°    | 2976.0 | 3040.6 | 3168.2 | 3239.1 | 3267.5 | 3302.1 | 3338.4 | 3360.4 | 3365.2 | 3371.5 | 3362.0 |
| 22.5°  | 3048.5 | 3146.2 | 3250.1 | 3308.4 | 3332.1 | 3344.7 | 3368.3 | 3374.6 | 3366.7 | 3368.3 | 3369.9 |
| 25°    | 3105.2 | 3201.3 | 3264.3 | 3280.1 | 3278.5 | 3262.7 | 3245.4 | 3215.5 | 3212.3 | 3199.7 | 3174.5 |
| 27.5°  | 3121.0 | 3157.2 | 3149.3 | 3084.7 | 3020.1 | 3013.8 | 2909.8 | 2853.1 | 2788.5 | 2798.0 | 2761.8 |
| 30°    | 3035.9 | 2988.6 | 2876.8 | 2712.9 | 2645.2 | 2534.9 | 2418.3 | 2297.0 | 2249.7 | 2197.7 | 2293.8 |
| 32.5°  | 2827.9 | 2659.4 | 2460.8 | 2248.2 | 2134.7 | 2037.1 | 1912.6 | 1824.4 | 1774.0 | 1731.4 | 1813.3 |
| 35°    | 2514.4 | 2251.3 | 1988.2 | 1786.6 | 1693.6 | 1605.4 | 1488.8 | 1444.7 | 1381.7 | 1388.0 | 1395.8 |
| 37.5°  | 2111.1 | 1821.2 | 1622.7 | 1424.2 | 1362.8 | 1326.5 | 1241.5 | 1173.7 | 1151.7 | 1145.3 | 1145.3 |
| 40°    | 1733.0 | 1495.1 | 1318.6 | 1162.7 | 1115.4 | 1085.5 | 1017.7 | 986.2  | 962.6  | 956.3  | 964.2  |
| 42.5°  | 1433.7 | 1230.4 | 1093.4 | 989.4  | 956.3  | 918.5  | 890.1  | 850.7  | 846.0  | 835.0  | 849.2  |
| 45°    | 1203.6 | 1027.2 | 924.8  | 849.2  | 820.8  | 806.6  | 775.1  | 751.5  | 742.0  | 740.5  | 751.5  |
| 47.5°  | 1020.9 | 883.8  | 794.0  | 746.8  | 724.7  | 710.5  | 683.7  | 674.3  | 664.8  | 668.0  | 663.3  |
| 50°    | 857.0  | 754.6  | 696.3  | 653.8  | 639.6  | 625.5  | 608.1  | 598.7  | 593.9  | 593.9  | 592.4  |
| 52.5°  | 735.7  | 650.7  | 612.8  | 573.5  | 567.2  | 559.3  | 540.4  | 534.1  | 526.2  | 524.6  | 530.9  |
| 55°    | 630.2  | 571.9  | 534.1  | 510.4  | 504.1  | 488.4  | 480.5  | 472.6  | 467.9  | 464.8  | 466.3  |
| 57.5°  | 538.8  | 494.7  | 469.5  | 449.0  | 438.0  | 431.7  | 417.5  | 415.9  | 412.8  | 412.8  | 411.2  |
| 60°    | 463.2  | 431.7  | 401.7  | 389.1  | 381.3  | 373.4  | 371.8  | 362.4  | 357.6  | 360.8  | 359.2  |
| 62.5°  | 392.3  | 367.1  | 349.7  | 335.6  | 330.8  | 324.5  | 319.8  | 316.7  | 311.9  | 313.5  | 313.5  |
| 65°    | 327.7  | 307.2  | 294.6  | 282.0  | 280.4  | 274.1  | 272.6  | 269.4  | 269.4  | 267.8  | 271.0  |
| 67.5°  | 269.4  | 255.2  | 244.2  | 236.3  | 231.6  | 233.2  | 226.9  | 222.1  | 222.1  | 220.6  | 225.3  |
| 70°    | 214.3  | 206.4  | 195.4  | 185.9  | 179.6  | 179.6  | 171.7  | 170.1  | 170.1  | 170.1  | 168.6  |
| 72.5°  | 165.4  | 151.2  | 146.5  | 143.4  | 143.4  | 143.4  | 140.2  | 140.2  | 138.6  | 140.2  | 138.6  |
| 75°    | 122.9  | 121.3  | 118.2  | 116.6  | 116.6  | 115.0  | 113.4  | 113.4  | 113.4  | 113.4  | 113.4  |
| 77.5°  | 96.1   | 96.1   | 93.0   | 91.4   | 91.4   | 91.4   | 89.8   | 89.8   | 88.2   | 88.2   | 88.2   |
| 80°    | 70.9   | 70.9   | 67.7   | 67.7   | 67.7   | 66.2   | 66.2   | 66.2   | 67.7   | 66.2   | 66.2   |
| 82.5°  | 48.8   | 48.8   | 47.3   | 48.8   | 47.3   | 45.7   | 45.7   | 45.7   | 44.1   | 45.7   | 45.7   |
| 85°    | 28.4   | 28.4   | 26.8   | 25.2   | 26.8   | 26.8   | 25.2   | 26.8   | 25.2   | 26.8   | 25.2   |
| 87.5°  | 11.0   | 9.5    | 9.5    | 9.5    | 7.9    | 9.5    | 7.9    | 7.9    | 9.5    | 7.9    | 9.5    |
| 90°    | 24.6   | 25.5   | 26.4   | 27.3   | 27.7   | 27.9   | 28.3   | 28.8   | 29.2   | 29.6   | 29.2   |
| 92.5°  | 27.2   | 28.8   | 30.3   | 31.8   | 32.6   | 32.7   | 32.9   | 33.2   | 33.4   | 33.6   | 33.4   |
| 95°    | 32.1   | 33.7   | 35.2   | 36.7   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   |
| 97.5°  | 33.4   | 35.1   | 36.9   | 38.6   | 39.5   | 39.6   | 39.8   | 40.1   | 40.3   | 40.5   | 40.3   |
| 100°   | 34.4   | 36.1   | 37.9   | 39.6   | 40.5   | 40.6   | 40.8   | 41.1   | 41.3   | 41.5   | 41.3   |
| 102.5° | 65.9   | 58.6   | 51.4   | 44.1   | 40.5   | 40.7   | 41.2   | 41.6   | 42.1   | 42.5   | 42.1   |
| 105°   | 177.5  | 138.7  | 99.8   | 60.9   | 41.5   | 41.7   | 42.2   | 42.6   | 43.1   | 43.5   | 43.1   |
| 107.5° | 350.5  | 316.7  | 282.9  | 249.1  | 232.2  | 217.8  | 189.1  | 160.3  | 131.6  | 102.8  | 131.6  |
| 110°   | 438.4  | 431.1  | 423.9  | 416.6  | 413.0  | 397.3  | 365.9  | 334.5  | 303.1  | 271.7  | 303.1  |

TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 509.9  | 511.8  | 513.8  | 515.7  | 516.7  | 516.5  | 516.1  | 515.6  | 515.2  | 514.8  | 515.2  |
| 115°   | 569.3  | 571.5  | 573.7  | 575.9  | 577.0  | 577.4  | 578.3  | 579.2  | 580.1  | 581.0  | 580.1  |
| 117.5° | 627.2  | 628.9  | 630.7  | 632.4  | 633.3  | 633.4  | 633.6  | 633.9  | 634.1  | 634.3  | 634.1  |
| 120°   | 683.6  | 685.3  | 687.1  | 688.8  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  |
| 122.5° | 739.2  | 740.3  | 741.4  | 742.5  | 743.0  | 743.1  | 743.3  | 743.6  | 743.8  | 744.0  | 743.8  |
| 125°   | 790.8  | 791.3  | 791.7  | 792.2  | 792.4  | 792.6  | 793.1  | 793.5  | 794.0  | 794.4  | 794.0  |
| 127.5° | 843.5  | 844.1  | 844.8  | 845.5  | 845.8  | 845.6  | 845.1  | 844.7  | 844.2  | 843.8  | 844.2  |
| 130°   | 890.1  | 891.0  | 891.9  | 892.8  | 893.2  | 893.0  | 892.5  | 892.1  | 891.6  | 891.2  | 891.6  |
| 132.5° | 934.6  | 935.5  | 936.4  | 937.3  | 937.7  | 937.4  | 936.7  | 936.0  | 935.4  | 934.7  | 935.4  |
| 135°   | 979.8  | 980.5  | 981.1  | 981.8  | 982.1  | 981.8  | 981.1  | 980.5  | 979.8  | 979.2  | 979.8  |
| 137.5° | 1019.8 | 1020.9 | 1022.0 | 1023.1 | 1023.6 | 1023.4 | 1022.9 | 1022.5 | 1022.0 | 1021.6 | 1022.0 |
| 140°   | 1058.1 | 1059.0 | 1059.9 | 1060.8 | 1061.2 | 1061.0 | 1060.5 | 1060.1 | 1059.6 | 1059.2 | 1059.6 |
| 142.5° | 1094.4 | 1095.1 | 1095.7 | 1096.4 | 1096.7 | 1096.4 | 1095.7 | 1095.1 | 1094.4 | 1093.8 | 1094.4 |
| 145°   | 1127.8 | 1128.2 | 1128.7 | 1129.1 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 |
| 147.5° | 1158.4 | 1158.9 | 1159.3 | 1159.8 | 1160.0 | 1159.4 | 1158.3 | 1157.2 | 1156.1 | 1155.0 | 1156.1 |
| 150°   | 1186.1 | 1186.5 | 1187.0 | 1187.4 | 1187.6 | 1187.3 | 1186.6 | 1186.0 | 1185.3 | 1184.7 | 1185.3 |
| 152.5° | 1210.3 | 1211.1 | 1212.0 | 1212.9 | 1213.3 | 1212.8 | 1211.7 | 1210.6 | 1209.5 | 1208.4 | 1209.5 |
| 155°   | 1232.2 | 1233.3 | 1234.4 | 1235.5 | 1236.0 | 1235.3 | 1234.0 | 1232.7 | 1231.4 | 1230.1 | 1231.4 |
| 157.5° | 1252.2 | 1253.5 | 1254.8 | 1256.1 | 1256.8 | 1255.9 | 1254.2 | 1252.4 | 1250.7 | 1248.9 | 1250.7 |
| 160°   | 1269.0 | 1270.3 | 1271.6 | 1272.9 | 1273.6 | 1272.8 | 1271.3 | 1269.8 | 1268.2 | 1266.7 | 1268.2 |
| 162.5° | 1284.0 | 1285.6 | 1287.1 | 1288.6 | 1289.4 | 1288.7 | 1287.4 | 1286.1 | 1284.8 | 1283.5 | 1284.8 |
| 165°   | 1297.1 | 1298.8 | 1300.6 | 1302.3 | 1303.2 | 1302.4 | 1300.9 | 1299.4 | 1297.8 | 1296.3 | 1297.8 |
| 167.5° | 1308.0 | 1309.7 | 1311.5 | 1313.2 | 1314.1 | 1313.2 | 1311.5 | 1309.7 | 1308.0 | 1306.2 | 1308.0 |
| 170°   | 1316.9 | 1318.6 | 1320.4 | 1322.1 | 1323.0 | 1322.1 | 1320.4 | 1318.6 | 1316.9 | 1315.1 | 1316.9 |
| 172.5° | 1322.8 | 1324.5 | 1326.3 | 1328.0 | 1328.9 | 1327.9 | 1325.9 | 1324.0 | 1322.0 | 1320.0 | 1322.0 |
| 175°   | 1327.5 | 1329.1 | 1330.6 | 1332.1 | 1332.9 | 1332.0 | 1330.3 | 1328.5 | 1326.8 | 1325.0 | 1326.8 |
| 177.5° | 1329.7 | 1331.4 | 1333.2 | 1334.9 | 1335.8 | 1334.7 | 1332.5 | 1330.4 | 1328.2 | 1326.0 | 1328.2 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

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CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1986.6 | 1977.2 | 1970.9 | 1966.2 | 1961.4 | 1975.6 | 1956.7 | 1936.2 | 1922.0 | 1912.6 | 1909.4 |
| 5°     | 2194.6 | 2174.1 | 2156.8 | 2142.6 | 2145.8 | 2145.8 | 2112.7 | 2076.4 | 2044.9 | 2027.6 | 2008.7 |
| 7.5°   | 2435.6 | 2413.6 | 2378.9 | 2371.0 | 2364.7 | 2325.4 | 2292.3 | 2226.1 | 2186.7 | 2147.3 | 2112.7 |
| 10°    | 2675.1 | 2646.7 | 2613.7 | 2602.6 | 2586.9 | 2538.0 | 2487.6 | 2402.6 | 2353.7 | 2281.2 | 2235.6 |
| 12.5°  | 2898.8 | 2864.2 | 2831.1 | 2823.2 | 2799.6 | 2757.0 | 2670.4 | 2582.2 | 2498.7 | 2421.5 | 2341.1 |
| 15°    | 3086.3 | 3076.8 | 3026.4 | 2994.9 | 2942.9 | 2884.6 | 2865.7 | 2746.0 | 2640.4 | 2560.1 | 2415.2 |
| 17.5°  | 3243.8 | 3199.7 | 3152.5 | 3132.0 | 3111.5 | 3043.8 | 2976.0 | 2853.1 | 2739.7 | 2621.5 | 2528.6 |
| 20°    | 3369.9 | 3321.0 | 3288.0 | 3258.0 | 3248.6 | 3171.4 | 3064.2 | 2955.5 | 2831.1 | 2698.7 | 2577.4 |
| 22.5°  | 3376.2 | 3369.9 | 3347.8 | 3330.5 | 3311.6 | 3261.2 | 3176.1 | 3040.6 | 2908.3 | 2763.3 | 2604.2 |
| 25°    | 3245.4 | 3236.0 | 3299.0 | 3283.2 | 3295.8 | 3276.9 | 3231.2 | 3117.8 | 2963.4 | 2793.3 | 2632.6 |
| 27.5°  | 2851.6 | 2947.7 | 3046.9 | 3081.6 | 3105.2 | 3172.9 | 3195.0 | 3132.0 | 3007.5 | 2826.3 | 2646.7 |
| 30°    | 2315.9 | 2443.5 | 2604.2 | 2690.9 | 2757.0 | 2883.1 | 3046.9 | 3067.4 | 3009.1 | 2864.2 | 2643.6 |
| 32.5°  | 1818.1 | 1934.6 | 2063.8 | 2166.2 | 2254.5 | 2512.8 | 2733.4 | 2892.5 | 2920.9 | 2845.3 | 2651.5 |
| 35°    | 1465.2 | 1515.6 | 1638.5 | 1736.1 | 1855.9 | 2076.4 | 2336.4 | 2593.2 | 2766.5 | 2775.9 | 2627.8 |
| 37.5°  | 1208.4 | 1235.1 | 1342.3 | 1397.4 | 1468.3 | 1662.1 | 1904.7 | 2240.3 | 2509.7 | 2637.3 | 2561.7 |
| 40°    | 1000.4 | 1061.8 | 1123.3 | 1154.8 | 1205.2 | 1339.1 | 1572.3 | 1835.4 | 2169.4 | 2405.7 | 2459.3 |
| 42.5°  | 868.1  | 894.9  | 934.2  | 978.4  | 1009.9 | 1126.4 | 1282.4 | 1523.5 | 1824.4 | 2153.6 | 2301.7 |
| 45°    | 765.7  | 775.1  | 816.1  | 844.4  | 877.5  | 959.4  | 1069.7 | 1271.4 | 1536.1 | 1860.6 | 2112.7 |
| 47.5°  | 680.6  | 699.5  | 721.6  | 738.9  | 760.9  | 824.0  | 918.5  | 1065.0 | 1298.2 | 1588.0 | 1859.0 |
| 50°    | 605.0  | 616.0  | 644.4  | 652.2  | 668.0  | 712.1  | 784.6  | 896.4  | 1088.6 | 1320.2 | 1600.7 |
| 52.5°  | 534.1  | 554.6  | 565.6  | 576.6  | 590.8  | 627.0  | 674.3  | 765.7  | 910.6  | 1128.0 | 1365.9 |
| 55°    | 478.9  | 485.2  | 501.0  | 510.4  | 521.5  | 546.7  | 587.6  | 655.4  | 768.8  | 942.1  | 1167.4 |
| 57.5°  | 425.4  | 425.4  | 441.1  | 449.0  | 460.0  | 478.9  | 515.2  | 567.2  | 649.1  | 778.3  | 984.7  |
| 60°    | 368.7  | 370.2  | 382.8  | 392.3  | 395.4  | 414.3  | 444.3  | 485.2  | 548.3  | 642.8  | 811.4  |
| 62.5°  | 318.2  | 326.1  | 332.4  | 335.6  | 346.6  | 357.6  | 382.8  | 411.2  | 455.3  | 538.8  | 658.5  |
| 65°    | 275.7  | 277.3  | 282.0  | 285.2  | 289.9  | 302.5  | 321.4  | 340.3  | 378.1  | 439.5  | 537.2  |
| 67.5°  | 226.9  | 233.2  | 239.5  | 239.5  | 244.2  | 250.5  | 269.4  | 285.2  | 313.5  | 349.7  | 415.9  |
| 70°    | 170.1  | 173.3  | 182.8  | 187.5  | 193.8  | 204.8  | 214.3  | 223.7  | 245.8  | 272.6  | 323.0  |
| 72.5°  | 141.8  | 141.8  | 144.9  | 146.5  | 146.5  | 154.4  | 168.6  | 178.0  | 189.1  | 208.0  | 242.6  |
| 75°    | 113.4  | 113.4  | 118.2  | 116.6  | 119.7  | 122.9  | 124.5  | 130.8  | 137.1  | 151.2  | 171.7  |
| 77.5°  | 89.8   | 91.4   | 91.4   | 93.0   | 93.0   | 94.5   | 96.1   | 99.3   | 102.4  | 110.3  | 119.7  |
| 80°    | 66.2   | 67.7   | 67.7   | 69.3   | 69.3   | 70.9   | 72.5   | 74.0   | 77.2   | 80.3   | 85.1   |
| 82.5°  | 45.7   | 47.3   | 47.3   | 48.8   | 47.3   | 48.8   | 50.4   | 50.4   | 52.0   | 55.1   | 56.7   |
| 85°    | 26.8   | 26.8   | 28.4   | 26.8   | 26.8   | 26.8   | 28.4   | 28.4   | 29.9   | 34.7   | 34.7   |
| 87.5°  | 7.9    | 9.5    | 7.9    | 9.5    | 9.5    | 9.5    | 9.5    | 11.0   | 11.0   | 12.6   | 14.2   |
| 90°    | 28.8   | 28.3   | 27.9   | 27.7   | 27.3   | 26.4   | 25.5   | 24.6   | 23.7   | 20.9   | 18.0   |
| 92.5°  | 33.2   | 32.9   | 32.7   | 32.6   | 31.8   | 30.3   | 28.8   | 27.2   | 25.7   | 23.7   | 21.7   |
| 95°    | 37.5   | 37.5   | 37.5   | 37.5   | 36.7   | 35.2   | 33.7   | 32.1   | 30.6   | 28.2   | 25.8   |
| 97.5°  | 40.1   | 39.8   | 39.6   | 39.5   | 38.6   | 36.9   | 35.1   | 33.4   | 31.6   | 42.8   | 54.0   |
| 100°   | 41.1   | 40.8   | 40.6   | 40.5   | 39.6   | 37.9   | 36.1   | 34.4   | 32.6   | 66.8   | 101.1  |
| 102.5° | 41.6   | 41.2   | 40.7   | 40.5   | 44.1   | 51.4   | 58.6   | 65.9   | 73.1   | 111.3  | 149.5  |
| 105°   | 42.6   | 42.2   | 41.7   | 41.5   | 60.9   | 99.8   | 138.7  | 177.5  | 216.4  | 236.2  | 255.9  |
| 107.5° | 160.3  | 189.1  | 217.8  | 232.2  | 249.1  | 282.9  | 316.7  | 350.5  | 384.3  | 381.0  | 377.7  |
| 110°   | 334.5  | 365.9  | 397.3  | 413.0  | 416.6  | 423.9  | 431.1  | 438.4  | 445.6  | 443.2  | 440.8  |

TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 515.6  | 516.1  | 516.5  | 516.7  | 515.7  | 513.8  | 511.8  | 509.9  | 507.9  | 505.5  | 503.1  |
| 115°   | 579.2  | 578.3  | 577.4  | 577.0  | 575.9  | 573.7  | 571.5  | 569.3  | 567.1  | 565.1  | 563.1  |
| 117.5° | 633.9  | 633.6  | 633.4  | 633.3  | 632.4  | 630.7  | 628.9  | 627.2  | 625.4  | 624.3  | 623.2  |
| 120°   | 689.7  | 689.7  | 689.7  | 689.7  | 688.8  | 687.1  | 685.3  | 683.6  | 681.8  | 681.1  | 680.5  |
| 122.5° | 743.6  | 743.3  | 743.1  | 743.0  | 742.5  | 741.4  | 740.3  | 739.2  | 738.1  | 737.2  | 736.3  |
| 125°   | 793.5  | 793.1  | 792.6  | 792.4  | 792.2  | 791.7  | 791.3  | 790.8  | 790.4  | 789.5  | 788.7  |
| 127.5° | 844.7  | 845.1  | 845.6  | 845.8  | 845.5  | 844.8  | 844.1  | 843.5  | 842.8  | 841.7  | 840.6  |
| 130°   | 892.1  | 892.5  | 893.0  | 893.2  | 892.8  | 891.9  | 891.0  | 890.1  | 889.2  | 888.3  | 887.5  |
| 132.5° | 936.0  | 936.7  | 937.4  | 937.7  | 937.3  | 936.4  | 935.5  | 934.6  | 933.7  | 933.0  | 932.4  |
| 135°   | 980.5  | 981.1  | 981.8  | 982.1  | 981.8  | 981.1  | 980.5  | 979.8  | 979.2  | 978.3  | 977.4  |
| 137.5° | 1022.5 | 1022.9 | 1023.4 | 1023.6 | 1023.1 | 1022.0 | 1020.9 | 1019.8 | 1018.7 | 1018.3 | 1017.8 |
| 140°   | 1060.1 | 1060.5 | 1061.0 | 1061.2 | 1060.8 | 1059.9 | 1059.0 | 1058.1 | 1057.2 | 1056.5 | 1055.9 |
| 142.5° | 1095.1 | 1095.7 | 1096.4 | 1096.7 | 1096.4 | 1095.7 | 1095.1 | 1094.4 | 1093.8 | 1093.1 | 1092.5 |
| 145°   | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.1 | 1128.7 | 1128.2 | 1127.8 | 1127.4 | 1127.0 | 1126.5 |
| 147.5° | 1157.2 | 1158.3 | 1159.4 | 1160.0 | 1159.8 | 1159.3 | 1158.9 | 1158.4 | 1158.0 | 1157.6 | 1157.1 |
| 150°   | 1186.0 | 1186.6 | 1187.3 | 1187.6 | 1187.4 | 1187.0 | 1186.5 | 1186.1 | 1185.7 | 1185.3 | 1184.8 |
| 152.5° | 1210.6 | 1211.7 | 1212.8 | 1213.3 | 1212.9 | 1212.0 | 1211.1 | 1210.3 | 1209.4 | 1209.2 | 1209.0 |
| 155°   | 1232.7 | 1234.0 | 1235.3 | 1236.0 | 1235.5 | 1234.4 | 1233.3 | 1232.2 | 1231.1 | 1230.9 | 1230.7 |
| 157.5° | 1252.4 | 1254.2 | 1255.9 | 1256.8 | 1256.1 | 1254.8 | 1253.5 | 1252.2 | 1250.9 | 1251.1 | 1251.3 |
| 160°   | 1269.8 | 1271.3 | 1272.8 | 1273.6 | 1272.9 | 1271.6 | 1270.3 | 1269.0 | 1267.7 | 1267.9 | 1268.1 |
| 162.5° | 1286.1 | 1287.4 | 1288.7 | 1289.4 | 1288.6 | 1287.1 | 1285.6 | 1284.0 | 1282.5 | 1282.7 | 1282.9 |
| 165°   | 1299.4 | 1300.9 | 1302.4 | 1303.2 | 1302.3 | 1300.6 | 1298.8 | 1297.1 | 1295.3 | 1295.5 | 1295.7 |
| 167.5° | 1309.7 | 1311.5 | 1313.2 | 1314.1 | 1313.2 | 1311.5 | 1309.7 | 1308.0 | 1306.2 | 1306.2 | 1306.2 |
| 170°   | 1318.6 | 1320.4 | 1322.1 | 1323.0 | 1322.1 | 1320.4 | 1318.6 | 1316.9 | 1315.1 | 1315.1 | 1315.1 |
| 172.5° | 1324.0 | 1325.9 | 1327.9 | 1328.9 | 1328.0 | 1326.3 | 1324.5 | 1322.8 | 1321.0 | 1320.8 | 1320.6 |
| 175°   | 1328.5 | 1330.3 | 1332.0 | 1332.9 | 1332.1 | 1330.6 | 1329.1 | 1327.5 | 1326.0 | 1325.8 | 1325.6 |
| 177.5° | 1330.4 | 1332.5 | 1334.7 | 1335.8 | 1334.9 | 1333.2 | 1331.4 | 1329.7 | 1327.9 | 1327.7 | 1327.5 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1904.7 | 1896.8 | 1889.0 | 1889.0 | 1871.6 | 1855.9 | 1848.0 | 1851.1 | 1841.7 | 1829.1 | 1816.5 |
| 5°     | 1988.2 | 1956.7 | 1950.4 | 1933.1 | 1909.4 | 1876.4 | 1859.0 | 1843.3 | 1824.4 | 1799.2 | 1775.5 |
| 7.5°   | 2065.4 | 2024.4 | 2002.4 | 1985.1 | 1939.4 | 1893.7 | 1855.9 | 1830.7 | 1797.6 | 1759.8 | 1731.4 |
| 10°    | 2166.2 | 2090.6 | 2067.0 | 2027.6 | 1963.0 | 1898.4 | 1854.3 | 1813.3 | 1767.6 | 1723.5 | 1685.7 |
| 12.5°  | 2246.6 | 2159.9 | 2115.8 | 2076.4 | 1992.9 | 1911.0 | 1837.0 | 1786.6 | 1731.4 | 1682.6 | 1633.7 |
| 15°    | 2338.0 | 2240.3 | 2163.1 | 2115.8 | 2010.3 | 1911.0 | 1827.5 | 1756.6 | 1695.2 | 1635.3 | 1592.8 |
| 17.5°  | 2382.1 | 2259.2 | 2224.5 | 2156.8 | 2004.0 | 1904.7 | 1802.3 | 1726.7 | 1652.6 | 1583.3 | 1532.9 |
| 20°    | 2451.4 | 2308.0 | 2221.4 | 2175.7 | 2040.2 | 1893.7 | 1774.0 | 1687.3 | 1610.1 | 1536.1 | 1482.5 |
| 22.5°  | 2456.1 | 2300.1 | 2243.4 | 2156.8 | 1989.8 | 1860.6 | 1748.7 | 1643.2 | 1553.4 | 1484.1 | 1428.9 |
| 25°    | 2445.1 | 2286.0 | 2207.2 | 2137.9 | 1999.2 | 1841.7 | 1698.3 | 1594.4 | 1506.1 | 1425.8 | 1361.2 |
| 27.5°  | 2440.4 | 2245.0 | 2171.0 | 2101.6 | 1945.7 | 1786.6 | 1668.4 | 1550.2 | 1449.4 | 1378.5 | 1312.3 |
| 30°    | 2434.1 | 2200.9 | 2111.1 | 2030.7 | 1887.4 | 1744.0 | 1602.2 | 1499.8 | 1403.7 | 1313.9 | 1247.8 |
| 32.5°  | 2393.1 | 2141.0 | 2049.7 | 1964.6 | 1810.2 | 1666.8 | 1555.0 | 1446.3 | 1342.3 | 1258.8 | 1198.9 |
| 35°    | 2380.5 | 2085.9 | 1966.2 | 1874.8 | 1723.5 | 1595.9 | 1477.8 | 1388.0 | 1290.3 | 1206.8 | 1135.9 |
| 37.5°  | 2344.3 | 2029.2 | 1900.0 | 1783.4 | 1625.9 | 1504.6 | 1417.9 | 1328.1 | 1233.6 | 1143.8 | 1087.1 |
| 40°    | 2281.2 | 1963.0 | 1816.5 | 1696.8 | 1534.5 | 1411.6 | 1331.3 | 1265.1 | 1172.1 | 1091.8 | 1022.5 |
| 42.5°  | 2188.3 | 1895.3 | 1737.7 | 1611.7 | 1432.1 | 1317.1 | 1250.9 | 1187.9 | 1109.1 | 1025.6 | 968.9  |
| 45°    | 2081.2 | 1805.5 | 1658.9 | 1518.7 | 1336.0 | 1224.1 | 1154.8 | 1117.0 | 1044.5 | 973.6  | 907.5  |
| 47.5°  | 1934.6 | 1712.5 | 1567.6 | 1422.6 | 1236.7 | 1128.0 | 1072.9 | 1035.1 | 984.7  | 907.5  | 853.9  |
| 50°    | 1750.3 | 1592.8 | 1455.7 | 1326.5 | 1139.0 | 1035.1 | 979.9  | 951.6  | 909.0  | 853.9  | 801.9  |
| 52.5°  | 1545.5 | 1454.1 | 1340.7 | 1221.0 | 1039.8 | 942.1  | 891.7  | 869.6  | 838.1  | 786.1  | 742.0  |
| 55°    | 1339.1 | 1299.7 | 1222.5 | 1104.4 | 935.8  | 855.5  | 811.4  | 783.0  | 759.4  | 721.6  | 683.7  |
| 57.5°  | 1154.8 | 1135.9 | 1082.3 | 991.0  | 849.2  | 765.7  | 727.9  | 709.0  | 690.0  | 661.7  | 623.9  |
| 60°    | 964.2  | 984.7  | 929.5  | 883.8  | 754.6  | 682.2  | 649.1  | 628.6  | 619.1  | 593.9  | 570.3  |
| 62.5°  | 798.8  | 817.7  | 786.1  | 751.5  | 660.1  | 595.5  | 575.0  | 556.1  | 549.8  | 527.8  | 504.1  |
| 65°    | 649.1  | 672.7  | 649.1  | 630.2  | 575.0  | 521.5  | 496.3  | 486.8  | 480.5  | 466.3  | 447.4  |
| 67.5°  | 516.7  | 540.4  | 529.3  | 505.7  | 488.4  | 444.3  | 430.1  | 420.6  | 417.5  | 406.5  | 390.7  |
| 70°    | 389.1  | 422.2  | 425.4  | 411.2  | 395.4  | 375.0  | 365.5  | 362.4  | 354.5  | 345.0  | 335.6  |
| 72.5°  | 280.4  | 318.2  | 319.8  | 319.8  | 310.4  | 310.4  | 300.9  | 296.2  | 296.2  | 286.7  | 275.7  |
| 75°    | 206.4  | 231.6  | 234.7  | 237.9  | 242.6  | 247.3  | 241.0  | 241.0  | 239.5  | 230.0  | 225.3  |
| 77.5°  | 137.1  | 159.1  | 167.0  | 178.0  | 184.3  | 184.3  | 187.5  | 190.6  | 187.5  | 182.8  | 179.6  |
| 80°    | 88.2   | 104.0  | 113.4  | 119.7  | 129.2  | 133.9  | 138.6  | 140.2  | 137.1  | 135.5  | 130.8  |
| 82.5°  | 58.3   | 63.0   | 67.7   | 75.6   | 86.6   | 94.5   | 94.5   | 93.0   | 96.1   | 94.5   | 93.0   |
| 85°    | 33.1   | 36.2   | 37.8   | 39.4   | 45.7   | 53.6   | 55.1   | 56.7   | 59.9   | 56.7   | 53.6   |
| 87.5°  | 12.6   | 14.2   | 14.2   | 14.2   | 17.3   | 18.9   | 23.6   | 29.9   | 28.4   | 25.2   | 25.2   |
| 90°    | 15.2   | 12.3   | 10.9   | 9.8    | 7.6    | 5.4    | 3.2    | 1.0    | 3.2    | 5.4    | 7.6    |
| 92.5°  | 19.8   | 17.8   | 16.8   | 17.5   | 18.8   | 20.1   | 21.4   | 22.7   | 21.4   | 20.1   | 18.8   |
| 95°    | 23.4   | 21.0   | 19.8   | 24.3   | 33.3   | 42.3   | 51.3   | 60.3   | 51.3   | 42.3   | 33.3   |
| 97.5°  | 65.2   | 76.4   | 82.0   | 85.1   | 91.2   | 97.4   | 103.5  | 109.7  | 103.5  | 97.4   | 91.2   |
| 100°   | 135.3  | 169.6  | 186.7  | 184.5  | 180.1  | 175.8  | 171.4  | 167.0  | 171.4  | 175.8  | 180.1  |
| 102.5° | 187.7  | 225.9  | 245.0  | 243.6  | 240.7  | 237.9  | 235.0  | 232.2  | 235.0  | 237.9  | 240.7  |
| 105°   | 275.7  | 295.4  | 305.3  | 304.1  | 301.7  | 299.2  | 296.8  | 294.4  | 296.8  | 299.2  | 301.7  |
| 107.5° | 374.4  | 371.1  | 369.5  | 368.5  | 366.5  | 364.6  | 362.6  | 360.6  | 362.6  | 364.6  | 366.5  |
| 110°   | 438.3  | 435.9  | 434.7  | 433.8  | 432.1  | 430.3  | 428.6  | 426.8  | 428.6  | 430.3  | 432.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 500.6  | 498.2  | 497.0  | 496.2  | 494.7  | 493.2  | 491.6  | 490.1  | 491.6  | 493.2  | 494.7  |
| 115°   | 561.2  | 559.2  | 558.2  | 557.5  | 556.2  | 554.9  | 553.6  | 552.3  | 553.6  | 554.9  | 556.2  |
| 117.5° | 622.1  | 621.0  | 620.5  | 619.7  | 618.2  | 616.7  | 615.1  | 613.6  | 615.1  | 616.7  | 618.2  |
| 120°   | 679.8  | 679.1  | 678.8  | 677.8  | 675.8  | 673.9  | 671.9  | 669.9  | 671.9  | 673.9  | 675.8  |
| 122.5° | 735.4  | 734.5  | 734.1  | 733.3  | 731.8  | 730.3  | 728.7  | 727.2  | 728.7  | 730.3  | 731.8  |
| 125°   | 787.8  | 786.9  | 786.5  | 785.6  | 783.9  | 782.1  | 780.4  | 778.6  | 780.4  | 782.1  | 783.9  |
| 127.5° | 839.5  | 838.4  | 837.9  | 837.0  | 835.3  | 833.5  | 831.8  | 830.0  | 831.8  | 833.5  | 835.3  |
| 130°   | 886.6  | 885.7  | 885.3  | 884.4  | 882.7  | 880.9  | 879.2  | 877.4  | 879.2  | 880.9  | 882.7  |
| 132.5° | 931.7  | 931.0  | 930.7  | 929.8  | 928.1  | 926.3  | 924.6  | 922.8  | 924.6  | 926.3  | 928.1  |
| 135°   | 976.5  | 975.6  | 975.2  | 974.5  | 973.2  | 971.9  | 970.6  | 969.3  | 970.6  | 971.9  | 973.2  |
| 137.5° | 1017.4 | 1016.9 | 1016.7 | 1015.8 | 1014.1 | 1012.3 | 1010.6 | 1008.8 | 1010.6 | 1012.3 | 1014.1 |
| 140°   | 1055.2 | 1054.5 | 1054.2 | 1053.5 | 1052.2 | 1050.9 | 1049.6 | 1048.3 | 1049.6 | 1050.9 | 1052.2 |
| 142.5° | 1091.8 | 1091.1 | 1090.8 | 1090.1 | 1088.8 | 1087.5 | 1086.2 | 1084.9 | 1086.2 | 1087.5 | 1088.8 |
| 145°   | 1126.1 | 1125.6 | 1125.4 | 1124.6 | 1123.1 | 1121.6 | 1120.0 | 1118.5 | 1120.0 | 1121.6 | 1123.1 |
| 147.5° | 1156.7 | 1156.2 | 1156.0 | 1155.5 | 1154.4 | 1153.3 | 1152.2 | 1151.1 | 1152.2 | 1153.3 | 1154.4 |
| 150°   | 1184.4 | 1183.9 | 1183.7 | 1183.4 | 1182.7 | 1182.0 | 1181.4 | 1180.7 | 1181.4 | 1182.0 | 1182.7 |
| 152.5° | 1208.7 | 1208.5 | 1208.4 | 1208.3 | 1208.1 | 1207.8 | 1207.6 | 1207.4 | 1207.6 | 1207.8 | 1208.1 |
| 155°   | 1230.4 | 1230.2 | 1230.1 | 1230.3 | 1230.8 | 1231.2 | 1231.7 | 1232.1 | 1231.7 | 1231.2 | 1230.8 |
| 157.5° | 1251.6 | 1251.8 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 | 1251.9 |
| 160°   | 1268.4 | 1268.6 | 1268.7 | 1268.8 | 1269.0 | 1269.2 | 1269.4 | 1269.6 | 1269.4 | 1269.2 | 1269.0 |
| 162.5° | 1283.2 | 1283.4 | 1283.5 | 1283.8 | 1284.5 | 1285.1 | 1285.8 | 1286.4 | 1285.8 | 1285.1 | 1284.5 |
| 165°   | 1296.0 | 1296.2 | 1296.3 | 1296.6 | 1297.3 | 1298.0 | 1298.6 | 1299.3 | 1298.6 | 1298.0 | 1297.3 |
| 167.5° | 1306.2 | 1306.2 | 1306.2 | 1306.6 | 1307.5 | 1308.4 | 1309.2 | 1310.1 | 1309.2 | 1308.4 | 1307.5 |
| 170°   | 1315.1 | 1315.1 | 1315.1 | 1315.5 | 1316.4 | 1317.3 | 1318.1 | 1319.0 | 1318.1 | 1317.3 | 1316.4 |
| 172.5° | 1320.3 | 1320.1 | 1320.0 | 1320.6 | 1321.7 | 1322.8 | 1323.9 | 1325.0 | 1323.9 | 1322.8 | 1321.7 |
| 175°   | 1325.3 | 1325.1 | 1325.0 | 1325.5 | 1326.6 | 1327.7 | 1328.8 | 1329.9 | 1328.8 | 1327.7 | 1326.6 |
| 177.5° | 1327.2 | 1327.0 | 1326.9 | 1327.5 | 1328.6 | 1329.7 | 1330.8 | 1331.9 | 1330.8 | 1329.7 | 1328.6 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

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**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1816.5 | 1808.6 | 1805.5 | 1797.6 | 1778.7 | 1766.1 | 1751.9 | 1742.4 | 1744.0 | 1736.1 | 1740.9 |
| 5°     | 1759.8 | 1758.2 | 1747.2 | 1731.4 | 1704.6 | 1690.5 | 1665.2 | 1652.6 | 1646.3 | 1647.9 | 1638.5 |
| 7.5°   | 1712.5 | 1698.3 | 1690.5 | 1665.2 | 1640.0 | 1610.1 | 1589.6 | 1578.6 | 1569.1 | 1559.7 | 1553.4 |
| 10°    | 1658.9 | 1646.3 | 1633.7 | 1607.0 | 1572.3 | 1543.9 | 1515.6 | 1504.6 | 1490.4 | 1484.1 | 1479.3 |
| 12.5°  | 1602.2 | 1594.4 | 1578.6 | 1547.1 | 1507.7 | 1480.9 | 1447.8 | 1441.5 | 1422.6 | 1410.0 | 1406.9 |
| 15°    | 1550.2 | 1545.5 | 1517.2 | 1480.9 | 1441.5 | 1414.7 | 1386.4 | 1367.5 | 1336.0 | 1342.3 | 1331.3 |
| 17.5°  | 1495.1 | 1474.6 | 1457.3 | 1408.4 | 1389.5 | 1348.6 | 1315.5 | 1306.0 | 1284.0 | 1269.8 | 1255.6 |
| 20°    | 1433.7 | 1421.1 | 1399.0 | 1367.5 | 1321.8 | 1274.5 | 1249.3 | 1233.6 | 1221.0 | 1198.9 | 1192.6 |
| 22.5°  | 1375.4 | 1359.6 | 1340.7 | 1299.7 | 1260.4 | 1221.0 | 1186.3 | 1172.1 | 1156.4 | 1140.6 | 1131.2 |
| 25°    | 1329.7 | 1306.0 | 1285.6 | 1235.1 | 1195.8 | 1162.7 | 1140.6 | 1117.0 | 1094.9 | 1085.5 | 1082.3 |
| 27.5°  | 1258.8 | 1244.6 | 1224.1 | 1176.9 | 1140.6 | 1104.4 | 1083.9 | 1068.2 | 1044.5 | 1033.5 | 1024.0 |
| 30°    | 1213.1 | 1184.7 | 1161.1 | 1123.3 | 1087.1 | 1047.7 | 1028.8 | 1009.9 | 995.7  | 981.5  | 970.5  |
| 32.5°  | 1151.7 | 1129.6 | 1110.7 | 1072.9 | 1036.6 | 1000.4 | 979.9  | 951.6  | 943.7  | 932.7  | 920.1  |
| 35°    | 1091.8 | 1077.6 | 1057.1 | 1016.2 | 976.8  | 951.6  | 929.5  | 902.7  | 893.3  | 885.4  | 874.4  |
| 37.5°  | 1035.1 | 1014.6 | 1000.4 | 961.0  | 926.4  | 896.4  | 879.1  | 857.0  | 850.7  | 841.3  | 833.4  |
| 40°    | 986.2  | 965.7  | 951.6  | 912.2  | 875.9  | 844.4  | 833.4  | 811.4  | 801.9  | 790.9  | 786.1  |
| 42.5°  | 931.1  | 913.8  | 894.9  | 866.5  | 828.7  | 797.2  | 775.1  | 762.5  | 749.9  | 745.2  | 735.7  |
| 45°    | 872.8  | 857.0  | 842.9  | 811.4  | 772.0  | 749.9  | 731.0  | 713.7  | 704.2  | 696.3  | 690.0  |
| 47.5°  | 822.4  | 808.2  | 789.3  | 754.6  | 723.1  | 702.6  | 683.7  | 666.4  | 657.0  | 647.5  | 639.6  |
| 50°    | 764.1  | 756.2  | 735.7  | 702.6  | 672.7  | 649.1  | 631.8  | 616.0  | 609.7  | 598.7  | 586.1  |
| 52.5°  | 712.1  | 697.9  | 680.6  | 653.8  | 627.0  | 598.7  | 575.0  | 565.6  | 554.6  | 548.3  | 537.2  |
| 55°    | 650.7  | 641.2  | 622.3  | 598.7  | 570.3  | 546.7  | 529.3  | 516.7  | 502.6  | 496.3  | 482.1  |
| 57.5°  | 598.7  | 581.3  | 571.9  | 542.0  | 515.2  | 491.5  | 478.9  | 466.3  | 450.6  | 441.1  | 434.8  |
| 60°    | 542.0  | 526.2  | 512.0  | 486.8  | 467.9  | 442.7  | 423.8  | 412.8  | 401.7  | 389.1  | 382.8  |
| 62.5°  | 486.8  | 474.2  | 456.9  | 436.4  | 412.8  | 392.3  | 378.1  | 362.4  | 356.1  | 343.4  | 338.7  |
| 65°    | 426.9  | 417.5  | 403.3  | 379.7  | 360.8  | 343.4  | 329.3  | 316.7  | 310.4  | 305.6  | 302.5  |
| 67.5°  | 373.4  | 360.8  | 351.3  | 330.8  | 310.4  | 296.2  | 288.3  | 280.4  | 272.6  | 267.8  | 263.1  |
| 70°    | 318.2  | 308.8  | 299.3  | 280.4  | 266.3  | 253.6  | 247.3  | 241.0  | 236.3  | 231.6  | 226.9  |
| 72.5°  | 261.5  | 256.8  | 247.3  | 234.7  | 223.7  | 214.3  | 209.5  | 201.7  | 196.9  | 189.1  | 185.9  |
| 75°    | 215.8  | 208.0  | 203.2  | 192.2  | 182.8  | 174.9  | 168.6  | 159.1  | 152.8  | 149.7  | 148.1  |
| 77.5°  | 170.1  | 167.0  | 160.7  | 151.2  | 146.5  | 138.6  | 129.2  | 126.0  | 122.9  | 122.9  | 121.3  |
| 80°    | 127.6  | 122.9  | 118.2  | 110.3  | 105.6  | 99.3   | 99.3   | 99.3   | 97.7   | 99.3   | 97.7   |
| 82.5°  | 86.6   | 83.5   | 80.3   | 75.6   | 74.0   | 74.0   | 75.6   | 75.6   | 75.6   | 75.6   | 75.6   |
| 85°    | 50.4   | 50.4   | 50.4   | 52.0   | 50.4   | 50.4   | 52.0   | 53.6   | 52.0   | 52.0   | 50.4   |
| 87.5°  | 23.6   | 23.6   | 25.2   | 25.2   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 26.8   | 28.4   |
| 90°    | 9.8    | 10.9   | 12.3   | 15.2   | 18.0   | 20.9   | 23.7   | 24.6   | 25.5   | 26.4   | 27.3   |
| 92.5°  | 17.5   | 16.8   | 17.8   | 19.8   | 21.7   | 23.7   | 25.7   | 27.2   | 28.8   | 30.3   | 31.8   |
| 95°    | 24.3   | 19.8   | 21.0   | 23.4   | 25.8   | 28.2   | 30.6   | 32.1   | 33.7   | 35.2   | 36.7   |
| 97.5°  | 85.1   | 82.0   | 76.4   | 65.2   | 54.0   | 42.8   | 31.6   | 33.4   | 35.1   | 36.9   | 38.6   |
| 100°   | 184.5  | 186.7  | 169.6  | 135.3  | 101.1  | 66.8   | 32.6   | 34.4   | 36.1   | 37.9   | 39.6   |
| 102.5° | 243.6  | 245.0  | 225.9  | 187.7  | 149.5  | 111.3  | 73.1   | 65.9   | 58.6   | 51.4   | 44.1   |
| 105°   | 304.1  | 305.3  | 295.4  | 275.7  | 255.9  | 236.2  | 216.4  | 177.5  | 138.7  | 99.8   | 60.9   |
| 107.5° | 368.5  | 369.5  | 371.1  | 374.4  | 377.7  | 381.0  | 384.3  | 350.5  | 316.7  | 282.9  | 249.1  |
| 110°   | 433.8  | 434.7  | 435.9  | 438.3  | 440.8  | 443.2  | 445.6  | 438.4  | 431.1  | 423.9  | 416.6  |

TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 496.2  | 497.0  | 498.2  | 500.6  | 503.1  | 505.5  | 507.9  | 509.9  | 511.8  | 513.8  | 515.7  |
| 115°   | 557.5  | 558.2  | 559.2  | 561.2  | 563.1  | 565.1  | 567.1  | 569.3  | 571.5  | 573.7  | 575.9  |
| 117.5° | 619.7  | 620.5  | 621.0  | 622.1  | 623.2  | 624.3  | 625.4  | 627.2  | 628.9  | 630.7  | 632.4  |
| 120°   | 677.8  | 678.8  | 679.1  | 679.8  | 680.5  | 681.1  | 681.8  | 683.6  | 685.3  | 687.1  | 688.8  |
| 122.5° | 733.3  | 734.1  | 734.5  | 735.4  | 736.3  | 737.2  | 738.1  | 739.2  | 740.3  | 741.4  | 742.5  |
| 125°   | 785.6  | 786.5  | 786.9  | 787.8  | 788.7  | 789.5  | 790.4  | 790.8  | 791.3  | 791.7  | 792.2  |
| 127.5° | 837.0  | 837.9  | 838.4  | 839.5  | 840.6  | 841.7  | 842.8  | 843.5  | 844.1  | 844.8  | 845.5  |
| 130°   | 884.4  | 885.3  | 885.7  | 886.6  | 887.5  | 888.3  | 889.2  | 890.1  | 891.0  | 891.9  | 892.8  |
| 132.5° | 929.8  | 930.7  | 931.0  | 931.7  | 932.4  | 933.0  | 933.7  | 934.6  | 935.5  | 936.4  | 937.3  |
| 135°   | 974.5  | 975.2  | 975.6  | 976.5  | 977.4  | 978.3  | 979.2  | 979.8  | 980.5  | 981.1  | 981.8  |
| 137.5° | 1015.8 | 1016.7 | 1016.9 | 1017.4 | 1017.8 | 1018.3 | 1018.7 | 1019.8 | 1020.9 | 1022.0 | 1023.1 |
| 140°   | 1053.5 | 1054.2 | 1054.5 | 1055.2 | 1055.9 | 1056.5 | 1057.2 | 1058.1 | 1059.0 | 1059.9 | 1060.8 |
| 142.5° | 1090.1 | 1090.8 | 1091.1 | 1091.8 | 1092.5 | 1093.1 | 1093.8 | 1094.4 | 1095.1 | 1095.7 | 1096.4 |
| 145°   | 1124.6 | 1125.4 | 1125.6 | 1126.1 | 1126.5 | 1127.0 | 1127.4 | 1127.8 | 1128.2 | 1128.7 | 1129.1 |
| 147.5° | 1155.5 | 1156.0 | 1156.2 | 1156.7 | 1157.1 | 1157.6 | 1158.0 | 1158.4 | 1158.9 | 1159.3 | 1159.8 |
| 150°   | 1183.4 | 1183.7 | 1183.9 | 1184.4 | 1184.8 | 1185.3 | 1185.7 | 1186.1 | 1186.5 | 1187.0 | 1187.4 |
| 152.5° | 1208.3 | 1208.4 | 1208.5 | 1208.7 | 1209.0 | 1209.2 | 1209.4 | 1210.3 | 1211.1 | 1212.0 | 1212.9 |
| 155°   | 1230.3 | 1230.1 | 1230.2 | 1230.4 | 1230.7 | 1230.9 | 1231.1 | 1232.2 | 1233.3 | 1234.4 | 1235.5 |
| 157.5° | 1251.9 | 1251.9 | 1251.8 | 1251.6 | 1251.3 | 1251.1 | 1250.9 | 1252.2 | 1253.5 | 1254.8 | 1256.1 |
| 160°   | 1268.8 | 1268.7 | 1268.6 | 1268.4 | 1268.1 | 1267.9 | 1267.7 | 1269.0 | 1270.3 | 1271.6 | 1272.9 |
| 162.5° | 1283.8 | 1283.5 | 1283.4 | 1283.2 | 1282.9 | 1282.7 | 1282.5 | 1284.0 | 1285.6 | 1287.1 | 1288.6 |
| 165°   | 1296.6 | 1296.3 | 1296.2 | 1296.0 | 1295.7 | 1295.5 | 1295.3 | 1297.1 | 1298.8 | 1300.6 | 1302.3 |
| 167.5° | 1306.6 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1308.0 | 1309.7 | 1311.5 | 1313.2 |
| 170°   | 1315.5 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1316.9 | 1318.6 | 1320.4 | 1322.1 |
| 172.5° | 1320.6 | 1320.0 | 1320.1 | 1320.3 | 1320.6 | 1320.8 | 1321.0 | 1322.8 | 1324.5 | 1326.3 | 1328.0 |
| 175°   | 1325.5 | 1325.0 | 1325.1 | 1325.3 | 1325.6 | 1325.8 | 1326.0 | 1327.5 | 1329.1 | 1330.6 | 1332.1 |
| 177.5° | 1327.5 | 1326.9 | 1327.0 | 1327.2 | 1327.5 | 1327.7 | 1327.9 | 1329.7 | 1331.4 | 1333.2 | 1334.9 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1739.3 | 1740.9 | 1736.1 | 1726.7 | 1725.1 | 1728.3 | 1737.7 | 1734.6 | 1726.7 | 1740.9 | 1728.3 |
| 5°     | 1643.2 | 1635.3 | 1632.2 | 1635.3 | 1625.9 | 1621.1 | 1630.6 | 1625.9 | 1630.6 | 1632.2 | 1636.9 |
| 7.5°   | 1550.2 | 1551.8 | 1542.4 | 1543.9 | 1531.3 | 1534.5 | 1534.5 | 1534.5 | 1539.2 | 1542.4 | 1548.7 |
| 10°    | 1469.9 | 1473.0 | 1462.0 | 1463.6 | 1454.1 | 1447.8 | 1452.6 | 1462.0 | 1462.0 | 1462.0 | 1465.2 |
| 12.5°  | 1405.3 | 1391.1 | 1383.2 | 1381.7 | 1370.6 | 1367.5 | 1376.9 | 1380.1 | 1388.0 | 1388.0 | 1392.7 |
| 15°    | 1324.9 | 1321.8 | 1315.5 | 1315.5 | 1288.7 | 1295.0 | 1298.2 | 1309.2 | 1324.9 | 1312.3 | 1315.5 |
| 17.5°  | 1252.5 | 1244.6 | 1236.7 | 1233.6 | 1230.4 | 1221.0 | 1233.6 | 1232.0 | 1241.5 | 1243.0 | 1247.8 |
| 20°    | 1187.9 | 1181.6 | 1165.8 | 1167.4 | 1170.6 | 1156.4 | 1164.3 | 1164.3 | 1173.7 | 1183.2 | 1194.2 |
| 22.5°  | 1124.9 | 1118.6 | 1110.7 | 1113.8 | 1104.4 | 1101.2 | 1101.2 | 1109.1 | 1120.1 | 1128.0 | 1126.4 |
| 25°    | 1076.0 | 1065.0 | 1060.3 | 1055.5 | 1050.8 | 1054.0 | 1049.2 | 1057.1 | 1065.0 | 1069.7 | 1065.0 |
| 27.5°  | 1020.9 | 1016.2 | 1006.7 | 1002.0 | 994.1  | 997.3  | 1000.4 | 1006.7 | 1011.4 | 1011.4 | 1016.2 |
| 30°    | 967.3  | 961.0  | 957.9  | 953.1  | 953.1  | 946.8  | 948.4  | 954.7  | 959.4  | 964.2  | 970.5  |
| 32.5°  | 915.3  | 910.6  | 905.9  | 905.9  | 902.7  | 901.2  | 899.6  | 909.0  | 909.0  | 918.5  | 918.5  |
| 35°    | 872.8  | 864.9  | 864.9  | 857.0  | 860.2  | 858.6  | 855.5  | 861.8  | 863.3  | 869.6  | 868.1  |
| 37.5°  | 825.5  | 825.5  | 822.4  | 814.5  | 808.2  | 809.8  | 817.7  | 817.7  | 822.4  | 820.8  | 825.5  |
| 40°    | 778.3  | 775.1  | 775.1  | 770.4  | 768.8  | 767.2  | 768.8  | 770.4  | 778.3  | 776.7  | 778.3  |
| 42.5°  | 731.0  | 732.6  | 724.7  | 724.7  | 724.7  | 720.0  | 721.6  | 723.1  | 726.3  | 729.4  | 734.2  |
| 45°    | 685.3  | 682.2  | 680.6  | 677.4  | 674.3  | 675.9  | 674.3  | 680.6  | 679.0  | 682.2  | 686.9  |
| 47.5°  | 636.5  | 631.8  | 630.2  | 623.9  | 623.9  | 627.0  | 625.5  | 630.2  | 631.8  | 636.5  | 633.3  |
| 50°    | 589.2  | 582.9  | 578.2  | 579.8  | 570.3  | 573.5  | 573.5  | 578.2  | 582.9  | 584.5  | 587.6  |
| 52.5°  | 534.1  | 532.5  | 530.9  | 523.0  | 521.5  | 519.9  | 521.5  | 523.0  | 529.3  | 534.1  | 535.7  |
| 55°    | 480.5  | 478.9  | 469.5  | 466.3  | 461.6  | 461.6  | 464.8  | 466.3  | 477.4  | 478.9  | 485.2  |
| 57.5°  | 431.7  | 426.9  | 415.9  | 414.3  | 414.3  | 414.3  | 409.6  | 415.9  | 419.1  | 426.9  | 426.9  |
| 60°    | 378.1  | 378.1  | 368.7  | 368.7  | 370.2  | 368.7  | 368.7  | 370.2  | 370.2  | 376.5  | 379.7  |
| 62.5°  | 335.6  | 334.0  | 334.0  | 330.8  | 329.3  | 330.8  | 329.3  | 329.3  | 330.8  | 335.6  | 340.3  |
| 65°    | 297.8  | 296.2  | 294.6  | 293.0  | 289.9  | 289.9  | 291.5  | 294.6  | 294.6  | 297.8  | 299.3  |
| 67.5°  | 261.5  | 261.5  | 258.4  | 258.4  | 256.8  | 255.2  | 256.8  | 255.2  | 261.5  | 261.5  | 263.1  |
| 70°    | 225.3  | 223.7  | 219.0  | 217.4  | 212.7  | 214.3  | 214.3  | 219.0  | 220.6  | 223.7  | 226.9  |
| 72.5°  | 181.2  | 181.2  | 178.0  | 174.9  | 176.4  | 173.3  | 173.3  | 174.9  | 174.9  | 179.6  | 181.2  |
| 75°    | 149.7  | 146.5  | 144.9  | 146.5  | 144.9  | 148.1  | 144.9  | 144.9  | 148.1  | 148.1  | 148.1  |
| 77.5°  | 122.9  | 122.9  | 121.3  | 121.3  | 122.9  | 121.3  | 122.9  | 122.9  | 122.9  | 121.3  | 122.9  |
| 80°    | 100.8  | 99.3   | 99.3   | 99.3   | 97.7   | 97.7   | 97.7   | 97.7   | 97.7   | 97.7   | 97.7   |
| 82.5°  | 75.6   | 75.6   | 74.0   | 75.6   | 75.6   | 74.0   | 75.6   | 74.0   | 74.0   | 75.6   | 75.6   |
| 85°    | 50.4   | 53.6   | 50.4   | 50.4   | 52.0   | 52.0   | 53.6   | 52.0   | 53.6   | 50.4   | 52.0   |
| 87.5°  | 26.8   | 28.4   | 28.4   | 26.8   | 26.8   | 28.4   | 28.4   | 28.4   | 29.9   | 26.8   | 28.4   |
| 90°    | 27.7   | 27.9   | 28.3   | 28.8   | 29.2   | 29.6   | 29.2   | 28.8   | 28.3   | 27.9   | 27.7   |
| 92.5°  | 32.6   | 32.7   | 32.9   | 33.2   | 33.4   | 33.6   | 33.4   | 33.2   | 32.9   | 32.7   | 32.6   |
| 95°    | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   | 37.5   |
| 97.5°  | 39.5   | 39.6   | 39.8   | 40.1   | 40.3   | 40.5   | 40.3   | 40.1   | 39.8   | 39.6   | 39.5   |
| 100°   | 40.5   | 40.6   | 40.8   | 41.1   | 41.3   | 41.5   | 41.3   | 41.1   | 40.8   | 40.6   | 40.5   |
| 102.5° | 40.5   | 40.7   | 41.2   | 41.6   | 42.1   | 42.5   | 42.1   | 41.6   | 41.2   | 40.7   | 40.5   |
| 105°   | 41.5   | 41.7   | 42.2   | 42.6   | 43.1   | 43.5   | 43.1   | 42.6   | 42.2   | 41.7   | 41.5   |
| 107.5° | 232.2  | 217.8  | 189.1  | 160.3  | 131.6  | 102.8  | 131.6  | 160.3  | 189.1  | 217.8  | 232.2  |
| 110°   | 413.0  | 397.3  | 365.9  | 334.5  | 303.1  | 271.7  | 303.1  | 334.5  | 365.9  | 397.3  | 413.0  |

TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 516.7  | 516.5  | 516.1  | 515.6  | 515.2  | 514.8  | 515.2  | 515.6  | 516.1  | 516.5  | 516.7  |
| 115°   | 577.0  | 577.4  | 578.3  | 579.2  | 580.1  | 581.0  | 580.1  | 579.2  | 578.3  | 577.4  | 577.0  |
| 117.5° | 633.3  | 633.4  | 633.6  | 633.9  | 634.1  | 634.3  | 634.1  | 633.9  | 633.6  | 633.4  | 633.3  |
| 120°   | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  | 689.7  |
| 122.5° | 743.0  | 743.1  | 743.3  | 743.6  | 743.8  | 744.0  | 743.8  | 743.6  | 743.3  | 743.1  | 743.0  |
| 125°   | 792.4  | 792.6  | 793.1  | 793.5  | 794.0  | 794.4  | 794.0  | 793.5  | 793.1  | 792.6  | 792.4  |
| 127.5° | 845.8  | 845.6  | 845.1  | 844.7  | 844.2  | 843.8  | 844.2  | 844.7  | 845.1  | 845.6  | 845.8  |
| 130°   | 893.2  | 893.0  | 892.5  | 892.1  | 891.6  | 891.2  | 891.6  | 892.1  | 892.5  | 893.0  | 893.2  |
| 132.5° | 937.7  | 937.4  | 936.7  | 936.0  | 935.4  | 934.7  | 935.4  | 936.0  | 936.7  | 937.4  | 937.7  |
| 135°   | 982.1  | 981.8  | 981.1  | 980.5  | 979.8  | 979.2  | 979.8  | 980.5  | 981.1  | 981.8  | 982.1  |
| 137.5° | 1023.6 | 1023.4 | 1022.9 | 1022.5 | 1022.0 | 1021.6 | 1022.0 | 1022.5 | 1022.9 | 1023.4 | 1023.6 |
| 140°   | 1061.2 | 1061.0 | 1060.5 | 1060.1 | 1059.6 | 1059.2 | 1059.6 | 1060.1 | 1060.5 | 1061.0 | 1061.2 |
| 142.5° | 1096.7 | 1096.4 | 1095.7 | 1095.1 | 1094.4 | 1093.8 | 1094.4 | 1095.1 | 1095.7 | 1096.4 | 1096.7 |
| 145°   | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 | 1129.3 |
| 147.5° | 1160.0 | 1159.4 | 1158.3 | 1157.2 | 1156.1 | 1155.0 | 1156.1 | 1157.2 | 1158.3 | 1159.4 | 1160.0 |
| 150°   | 1187.6 | 1187.3 | 1186.6 | 1186.0 | 1185.3 | 1184.7 | 1185.3 | 1186.0 | 1186.6 | 1187.3 | 1187.6 |
| 152.5° | 1213.3 | 1212.8 | 1211.7 | 1210.6 | 1209.5 | 1208.4 | 1209.5 | 1210.6 | 1211.7 | 1212.8 | 1213.3 |
| 155°   | 1236.0 | 1235.3 | 1234.0 | 1232.7 | 1231.4 | 1230.1 | 1231.4 | 1232.7 | 1234.0 | 1235.3 | 1236.0 |
| 157.5° | 1256.8 | 1255.9 | 1254.2 | 1252.4 | 1250.7 | 1248.9 | 1250.7 | 1252.4 | 1254.2 | 1255.9 | 1256.8 |
| 160°   | 1273.6 | 1272.8 | 1271.3 | 1269.8 | 1268.2 | 1266.7 | 1268.2 | 1269.8 | 1271.3 | 1272.8 | 1273.6 |
| 162.5° | 1289.4 | 1288.7 | 1287.4 | 1286.1 | 1284.8 | 1283.5 | 1284.8 | 1286.1 | 1287.4 | 1288.7 | 1289.4 |
| 165°   | 1303.2 | 1302.4 | 1300.9 | 1299.4 | 1297.8 | 1296.3 | 1297.8 | 1299.4 | 1300.9 | 1302.4 | 1303.2 |
| 167.5° | 1314.1 | 1313.2 | 1311.5 | 1309.7 | 1308.0 | 1306.2 | 1308.0 | 1309.7 | 1311.5 | 1313.2 | 1314.1 |
| 170°   | 1323.0 | 1322.1 | 1320.4 | 1318.6 | 1316.9 | 1315.1 | 1316.9 | 1318.6 | 1320.4 | 1322.1 | 1323.0 |
| 172.5° | 1328.9 | 1327.9 | 1325.9 | 1324.0 | 1322.0 | 1320.0 | 1322.0 | 1324.0 | 1325.9 | 1327.9 | 1328.9 |
| 175°   | 1332.9 | 1332.0 | 1330.3 | 1328.5 | 1326.8 | 1325.0 | 1326.8 | 1328.5 | 1330.3 | 1332.0 | 1332.9 |
| 177.5° | 1335.8 | 1334.7 | 1332.5 | 1330.4 | 1328.2 | 1326.0 | 1328.2 | 1330.4 | 1332.5 | 1334.7 | 1335.8 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1740.9 | 1747.2 | 1740.9 | 1728.3 | 1740.9 | 1748.7 | 1756.6 | 1769.2 | 1775.5 | 1775.5 | 1785.0 |
| 5°     | 1641.6 | 1654.2 | 1649.5 | 1646.3 | 1658.9 | 1666.8 | 1679.4 | 1695.2 | 1712.5 | 1723.5 | 1736.1 |
| 7.5°   | 1553.4 | 1561.3 | 1569.1 | 1569.1 | 1581.7 | 1599.1 | 1618.0 | 1636.9 | 1658.9 | 1674.7 | 1684.2 |
| 10°    | 1476.2 | 1482.5 | 1487.2 | 1493.5 | 1512.4 | 1531.3 | 1556.5 | 1580.2 | 1599.1 | 1616.4 | 1632.2 |
| 12.5°  | 1402.1 | 1411.6 | 1422.6 | 1427.4 | 1441.5 | 1465.2 | 1488.8 | 1517.2 | 1547.1 | 1564.4 | 1580.2 |
| 15°    | 1331.3 | 1336.0 | 1348.6 | 1362.8 | 1375.4 | 1400.6 | 1430.5 | 1460.4 | 1485.6 | 1512.4 | 1526.6 |
| 17.5°  | 1258.8 | 1260.4 | 1293.4 | 1285.6 | 1326.5 | 1350.2 | 1365.9 | 1394.3 | 1435.2 | 1457.3 | 1479.3 |
| 20°    | 1187.9 | 1203.6 | 1217.8 | 1225.7 | 1247.8 | 1274.5 | 1320.2 | 1342.3 | 1375.4 | 1395.8 | 1414.7 |
| 22.5°  | 1132.7 | 1156.4 | 1156.4 | 1175.3 | 1186.3 | 1211.5 | 1244.6 | 1287.1 | 1323.4 | 1337.6 | 1364.3 |
| 25°    | 1083.9 | 1094.9 | 1113.8 | 1120.1 | 1140.6 | 1162.7 | 1184.7 | 1230.4 | 1269.8 | 1288.7 | 1307.6 |
| 27.5°  | 1020.9 | 1035.1 | 1060.3 | 1060.3 | 1087.1 | 1110.7 | 1137.5 | 1167.4 | 1206.8 | 1233.6 | 1254.1 |
| 30°    | 972.0  | 986.2  | 997.3  | 1014.6 | 1025.6 | 1047.7 | 1094.9 | 1117.0 | 1151.7 | 1175.3 | 1200.5 |
| 32.5°  | 926.4  | 937.4  | 946.8  | 965.7  | 978.4  | 1003.6 | 1028.8 | 1068.2 | 1098.1 | 1120.1 | 1146.9 |
| 35°    | 875.9  | 887.0  | 899.6  | 913.8  | 932.7  | 956.3  | 979.9  | 1013.0 | 1042.9 | 1063.4 | 1085.5 |
| 37.5°  | 828.7  | 836.6  | 855.5  | 864.9  | 880.7  | 902.7  | 932.7  | 967.3  | 994.1  | 1009.9 | 1031.9 |
| 40°    | 783.0  | 789.3  | 803.5  | 820.8  | 831.8  | 849.2  | 880.7  | 910.6  | 943.7  | 962.6  | 979.9  |
| 42.5°  | 734.2  | 742.0  | 754.6  | 772.0  | 789.3  | 808.2  | 825.5  | 860.2  | 890.1  | 905.9  | 924.8  |
| 45°    | 691.6  | 696.3  | 705.8  | 723.1  | 740.5  | 754.6  | 781.4  | 812.9  | 841.3  | 853.9  | 874.4  |
| 47.5°  | 641.2  | 645.9  | 660.1  | 668.0  | 686.9  | 705.8  | 732.6  | 764.1  | 789.3  | 801.9  | 820.8  |
| 50°    | 589.2  | 593.9  | 603.4  | 620.7  | 633.3  | 653.8  | 677.4  | 704.2  | 735.7  | 753.1  | 764.1  |
| 52.5°  | 538.8  | 548.3  | 556.1  | 570.3  | 586.1  | 606.5  | 628.6  | 653.8  | 680.6  | 697.9  | 710.5  |
| 55°    | 488.4  | 496.3  | 505.7  | 513.6  | 532.5  | 551.4  | 576.6  | 600.2  | 623.9  | 639.6  | 653.8  |
| 57.5°  | 431.7  | 442.7  | 452.2  | 467.9  | 482.1  | 497.8  | 526.2  | 545.1  | 573.5  | 584.5  | 597.1  |
| 60°    | 382.8  | 393.9  | 401.7  | 414.3  | 426.9  | 447.4  | 466.3  | 490.0  | 513.6  | 527.8  | 543.5  |
| 62.5°  | 341.9  | 346.6  | 351.3  | 363.9  | 376.5  | 395.4  | 414.3  | 438.0  | 463.2  | 471.1  | 483.7  |
| 65°    | 300.9  | 305.6  | 313.5  | 324.5  | 334.0  | 345.0  | 365.5  | 384.4  | 408.0  | 420.6  | 425.4  |
| 67.5°  | 266.3  | 271.0  | 272.6  | 280.4  | 288.3  | 300.9  | 311.9  | 330.8  | 352.9  | 360.8  | 370.2  |
| 70°    | 226.9  | 234.7  | 236.3  | 242.6  | 245.8  | 253.6  | 266.3  | 280.4  | 297.8  | 311.9  | 319.8  |
| 72.5°  | 181.2  | 192.2  | 195.4  | 204.8  | 209.5  | 217.4  | 226.9  | 237.9  | 248.9  | 255.2  | 261.5  |
| 75°    | 148.1  | 151.2  | 152.8  | 160.7  | 168.6  | 179.6  | 184.3  | 190.6  | 200.1  | 208.0  | 214.3  |
| 77.5°  | 122.9  | 124.5  | 126.0  | 126.0  | 127.6  | 133.9  | 143.4  | 151.2  | 157.5  | 160.7  | 165.4  |
| 80°    | 99.3   | 97.7   | 97.7   | 99.3   | 99.3   | 99.3   | 102.4  | 113.4  | 116.6  | 124.5  | 122.9  |
| 82.5°  | 77.2   | 74.0   | 75.6   | 74.0   | 74.0   | 74.0   | 74.0   | 75.6   | 75.6   | 80.3   | 83.5   |
| 85°    | 50.4   | 52.0   | 50.4   | 50.4   | 48.8   | 50.4   | 48.8   | 48.8   | 47.3   | 47.3   | 45.7   |
| 87.5°  | 26.8   | 28.4   | 26.8   | 26.8   | 25.2   | 26.8   | 25.2   | 25.2   | 23.6   | 23.6   | 20.5   |
| 90°    | 27.3   | 26.4   | 25.5   | 24.6   | 23.7   | 20.9   | 18.0   | 15.2   | 12.3   | 10.9   | 9.8    |
| 92.5°  | 31.8   | 30.3   | 28.8   | 27.2   | 25.7   | 23.7   | 21.7   | 19.8   | 17.8   | 16.8   | 17.5   |
| 95°    | 36.7   | 35.2   | 33.7   | 32.1   | 30.6   | 28.2   | 25.8   | 23.4   | 21.0   | 19.8   | 24.3   |
| 97.5°  | 38.6   | 36.9   | 35.1   | 33.4   | 31.6   | 42.8   | 54.0   | 65.2   | 76.4   | 82.0   | 85.1   |
| 100°   | 39.6   | 37.9   | 36.1   | 34.4   | 32.6   | 66.8   | 101.1  | 135.3  | 169.6  | 186.7  | 184.5  |
| 102.5° | 44.1   | 51.4   | 58.6   | 65.9   | 73.1   | 111.3  | 149.5  | 187.7  | 225.9  | 245.0  | 243.6  |
| 105°   | 60.9   | 99.8   | 138.7  | 177.5  | 216.4  | 236.2  | 255.9  | 275.7  | 295.4  | 305.3  | 304.1  |
| 107.5° | 249.1  | 282.9  | 316.7  | 350.5  | 384.3  | 381.0  | 377.7  | 374.4  | 371.1  | 369.5  | 368.5  |
| 110°   | 416.6  | 423.9  | 431.1  | 438.4  | 445.6  | 443.2  | 440.8  | 438.3  | 435.9  | 434.7  | 433.8  |

TEST NUMBER: P1010820

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**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 515.7  | 513.8  | 511.8  | 509.9  | 507.9  | 505.5  | 503.1  | 500.6  | 498.2  | 497.0  | 496.2  |
| 115°   | 575.9  | 573.7  | 571.5  | 569.3  | 567.1  | 565.1  | 563.1  | 561.2  | 559.2  | 558.2  | 557.5  |
| 117.5° | 632.4  | 630.7  | 628.9  | 627.2  | 625.4  | 624.3  | 623.2  | 622.1  | 621.0  | 620.5  | 619.7  |
| 120°   | 688.8  | 687.1  | 685.3  | 683.6  | 681.8  | 681.1  | 680.5  | 679.8  | 679.1  | 678.8  | 677.8  |
| 122.5° | 742.5  | 741.4  | 740.3  | 739.2  | 738.1  | 737.2  | 736.3  | 735.4  | 734.5  | 734.1  | 733.3  |
| 125°   | 792.2  | 791.7  | 791.3  | 790.8  | 790.4  | 789.5  | 788.7  | 787.8  | 786.9  | 786.5  | 785.6  |
| 127.5° | 845.5  | 844.8  | 844.1  | 843.5  | 842.8  | 841.7  | 840.6  | 839.5  | 838.4  | 837.9  | 837.0  |
| 130°   | 892.8  | 891.9  | 891.0  | 890.1  | 889.2  | 888.3  | 887.5  | 886.6  | 885.7  | 885.3  | 884.4  |
| 132.5° | 937.3  | 936.4  | 935.5  | 934.6  | 933.7  | 933.0  | 932.4  | 931.7  | 931.0  | 930.7  | 929.8  |
| 135°   | 981.8  | 981.1  | 980.5  | 979.8  | 979.2  | 978.3  | 977.4  | 976.5  | 975.6  | 975.2  | 974.5  |
| 137.5° | 1023.1 | 1022.0 | 1020.9 | 1019.8 | 1018.7 | 1018.3 | 1017.8 | 1017.4 | 1016.9 | 1016.7 | 1015.8 |
| 140°   | 1060.8 | 1059.9 | 1059.0 | 1058.1 | 1057.2 | 1056.5 | 1055.9 | 1055.2 | 1054.5 | 1054.2 | 1053.5 |
| 142.5° | 1096.4 | 1095.7 | 1095.1 | 1094.4 | 1093.8 | 1093.1 | 1092.5 | 1091.8 | 1091.1 | 1090.8 | 1090.1 |
| 145°   | 1129.1 | 1128.7 | 1128.2 | 1127.8 | 1127.4 | 1127.0 | 1126.5 | 1126.1 | 1125.6 | 1125.4 | 1124.6 |
| 147.5° | 1159.8 | 1159.3 | 1158.9 | 1158.4 | 1158.0 | 1157.6 | 1157.1 | 1156.7 | 1156.2 | 1156.0 | 1155.5 |
| 150°   | 1187.4 | 1187.0 | 1186.5 | 1186.1 | 1185.7 | 1185.3 | 1184.8 | 1184.4 | 1183.9 | 1183.7 | 1183.4 |
| 152.5° | 1212.9 | 1212.0 | 1211.1 | 1210.3 | 1209.4 | 1209.2 | 1209.0 | 1208.7 | 1208.5 | 1208.4 | 1208.3 |
| 155°   | 1235.5 | 1234.4 | 1233.3 | 1232.2 | 1231.1 | 1230.9 | 1230.7 | 1230.4 | 1230.2 | 1230.1 | 1230.3 |
| 157.5° | 1256.1 | 1254.8 | 1253.5 | 1252.2 | 1250.9 | 1251.1 | 1251.3 | 1251.6 | 1251.8 | 1251.9 | 1251.9 |
| 160°   | 1272.9 | 1271.6 | 1270.3 | 1269.0 | 1267.7 | 1267.9 | 1268.1 | 1268.4 | 1268.6 | 1268.7 | 1268.8 |
| 162.5° | 1288.6 | 1287.1 | 1285.6 | 1284.0 | 1282.5 | 1282.7 | 1282.9 | 1283.2 | 1283.4 | 1283.5 | 1283.8 |
| 165°   | 1302.3 | 1300.6 | 1298.8 | 1297.1 | 1295.3 | 1295.5 | 1295.7 | 1296.0 | 1296.2 | 1296.3 | 1296.6 |
| 167.5° | 1313.2 | 1311.5 | 1309.7 | 1308.0 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.2 | 1306.6 |
| 170°   | 1322.1 | 1320.4 | 1318.6 | 1316.9 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.1 | 1315.5 |
| 172.5° | 1328.0 | 1326.3 | 1324.5 | 1322.8 | 1321.0 | 1320.8 | 1320.6 | 1320.3 | 1320.1 | 1320.0 | 1320.6 |
| 175°   | 1332.1 | 1330.6 | 1329.1 | 1327.5 | 1326.0 | 1325.8 | 1325.6 | 1325.3 | 1325.1 | 1325.0 | 1325.5 |
| 177.5° | 1334.9 | 1333.2 | 1331.4 | 1329.7 | 1327.9 | 1327.7 | 1327.5 | 1327.2 | 1327.0 | 1326.9 | 1327.5 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

TEST NUMBER: P1010820

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**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5°   | 1792.9 | 1803.9 | 1825.9 | 1844.8 |
| 5°     | 1755.0 | 1772.4 | 1805.5 | 1838.5 |
| 7.5°   | 1709.4 | 1736.1 | 1778.7 | 1824.4 |
| 10°    | 1665.2 | 1699.9 | 1751.9 | 1805.5 |
| 12.5°  | 1621.1 | 1657.4 | 1712.5 | 1781.8 |
| 15°    | 1569.1 | 1607.0 | 1673.1 | 1756.6 |
| 17.5°  | 1523.5 | 1573.9 | 1633.7 | 1717.2 |
| 20°    | 1474.6 | 1512.4 | 1589.6 | 1677.8 |
| 22.5°  | 1413.2 | 1476.2 | 1548.7 | 1641.6 |
| 25°    | 1364.3 | 1419.5 | 1491.9 | 1597.5 |
| 27.5°  | 1304.5 | 1369.1 | 1457.3 | 1550.2 |
| 30°    | 1255.6 | 1309.2 | 1391.1 | 1503.0 |
| 32.5°  | 1198.9 | 1261.9 | 1347.0 | 1457.3 |
| 35°    | 1148.5 | 1202.1 | 1282.4 | 1394.3 |
| 37.5°  | 1088.6 | 1146.9 | 1236.7 | 1336.0 |
| 40°    | 1036.6 | 1093.4 | 1178.4 | 1271.4 |
| 42.5°  | 973.6  | 1033.5 | 1118.6 | 1197.3 |
| 45°    | 923.2  | 978.4  | 1046.1 | 1118.6 |
| 47.5°  | 861.8  | 920.1  | 986.2  | 1036.6 |
| 50°    | 806.6  | 860.2  | 912.2  | 954.7  |
| 52.5°  | 746.8  | 795.6  | 842.9  | 874.4  |
| 55°    | 691.6  | 729.4  | 767.2  | 789.3  |
| 57.5°  | 627.0  | 663.3  | 694.8  | 707.4  |
| 60°    | 570.3  | 600.2  | 620.7  | 634.9  |
| 62.5°  | 510.4  | 532.5  | 548.3  | 556.1  |
| 65°    | 452.2  | 467.9  | 475.8  | 483.7  |
| 67.5°  | 392.3  | 406.5  | 411.2  | 420.6  |
| 70°    | 329.3  | 345.0  | 348.2  | 352.9  |
| 72.5°  | 282.0  | 282.0  | 288.3  | 294.6  |
| 75°    | 225.3  | 228.4  | 231.6  | 231.6  |
| 77.5°  | 176.4  | 176.4  | 179.6  | 181.2  |
| 80°    | 129.2  | 130.8  | 130.8  | 129.2  |
| 82.5°  | 88.2   | 91.4   | 88.2   | 86.6   |
| 85°    | 48.8   | 55.1   | 52.0   | 52.0   |
| 87.5°  | 20.5   | 20.5   | 23.6   | 20.5   |
| 90°    | 7.6    | 5.4    | 3.2    | 1.0    |
| 92.5°  | 18.8   | 20.1   | 21.4   | 22.7   |
| 95°    | 33.3   | 42.3   | 51.3   | 60.3   |
| 97.5°  | 91.2   | 97.4   | 103.5  | 109.7  |
| 100°   | 180.1  | 175.8  | 171.4  | 167.0  |
| 102.5° | 240.7  | 237.9  | 235.0  | 232.2  |
| 105°   | 301.7  | 299.2  | 296.8  | 294.4  |
| 107.5° | 366.5  | 364.6  | 362.6  | 360.6  |
| 110°   | 432.1  | 430.3  | 428.6  | 426.8  |



TEST NUMBER: P1010820

CATALOG NUMBER: S123RDIP-B1165D1025UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 112.5° | 494.7  | 493.2  | 491.6  | 490.1  |
| 115°   | 556.2  | 554.9  | 553.6  | 552.3  |
| 117.5° | 618.2  | 616.7  | 615.1  | 613.6  |
| 120°   | 675.8  | 673.9  | 671.9  | 669.9  |
| 122.5° | 731.8  | 730.3  | 728.7  | 727.2  |
| 125°   | 783.9  | 782.1  | 780.4  | 778.6  |
| 127.5° | 835.3  | 833.5  | 831.8  | 830.0  |
| 130°   | 882.7  | 880.9  | 879.2  | 877.4  |
| 132.5° | 928.1  | 926.3  | 924.6  | 922.8  |
| 135°   | 973.2  | 971.9  | 970.6  | 969.3  |
| 137.5° | 1014.1 | 1012.3 | 1010.6 | 1008.8 |
| 140°   | 1052.2 | 1050.9 | 1049.6 | 1048.3 |
| 142.5° | 1088.8 | 1087.5 | 1086.2 | 1084.9 |
| 145°   | 1123.1 | 1121.6 | 1120.0 | 1118.5 |
| 147.5° | 1154.4 | 1153.3 | 1152.2 | 1151.1 |
| 150°   | 1182.7 | 1182.0 | 1181.4 | 1180.7 |
| 152.5° | 1208.1 | 1207.8 | 1207.6 | 1207.4 |
| 155°   | 1230.8 | 1231.2 | 1231.7 | 1232.1 |
| 157.5° | 1251.9 | 1251.9 | 1251.9 | 1251.9 |
| 160°   | 1269.0 | 1269.2 | 1269.4 | 1269.6 |
| 162.5° | 1284.5 | 1285.1 | 1285.8 | 1286.4 |
| 165°   | 1297.3 | 1298.0 | 1298.6 | 1299.3 |
| 167.5° | 1307.5 | 1308.4 | 1309.2 | 1310.1 |
| 170°   | 1316.4 | 1317.3 | 1318.1 | 1319.0 |
| 172.5° | 1321.7 | 1322.8 | 1323.9 | 1325.0 |
| 175°   | 1326.6 | 1327.7 | 1328.8 | 1329.9 |
| 177.5° | 1328.6 | 1329.7 | 1330.8 | 1331.9 |
| 180°   | 1329.9 | 1329.9 | 1329.9 | 1329.9 |

(END OF REPORT)