

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: P999950

Luminaire Tested: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P999950  
REPORT IS A COMBINATION OF REPORTS P988507 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K  
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}  
{m-EER=0.951}  
Light Source: -  
Ballast/Driver: -

**Summary**

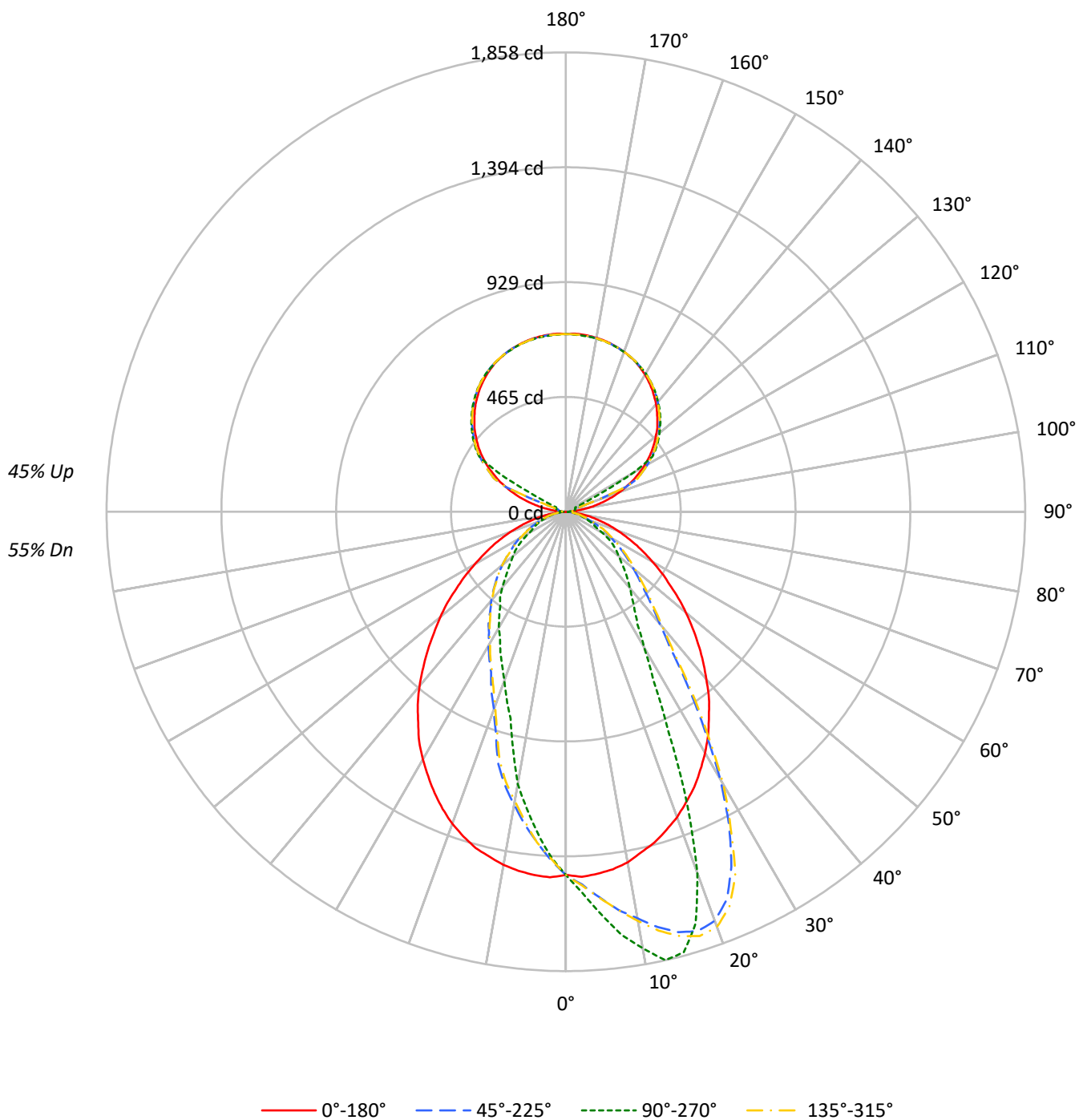
Lumens per Lamp: N/A  
Luminaire Lumens: 4646.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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

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### Luminous Intensity Polar Plot



TEST NUMBER: P999950

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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 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 73 | 73 | 73 | 60 | 60 | 60 |
| 1   | 100 | 96  | 92  | 89  | 92  | 89  | 86  | 83  | 77 | 74 | 72 | 65 | 64 | 62 | 55 | 54 | 53 |
| 2   | 91  | 85  | 79  | 74  | 85  | 79  | 74  | 70  | 68 | 65 | 61 | 58 | 56 | 53 | 49 | 47 | 46 |
| 3   | 84  | 75  | 68  | 63  | 78  | 70  | 64  | 59  | 61 | 56 | 53 | 52 | 49 | 46 | 44 | 42 | 40 |
| 4   | 77  | 67  | 60  | 54  | 72  | 63  | 56  | 51  | 55 | 50 | 46 | 47 | 44 | 41 | 40 | 38 | 35 |
| 5   | 72  | 60  | 53  | 47  | 66  | 57  | 50  | 45  | 50 | 44 | 40 | 43 | 39 | 36 | 37 | 34 | 31 |
| 6   | 66  | 55  | 47  | 41  | 62  | 51  | 45  | 40  | 45 | 40 | 36 | 39 | 35 | 32 | 34 | 31 | 28 |
| 7   | 62  | 50  | 42  | 37  | 57  | 47  | 40  | 35  | 41 | 36 | 32 | 36 | 32 | 29 | 31 | 28 | 26 |
| 8   | 57  | 46  | 38  | 33  | 53  | 43  | 36  | 32  | 38 | 33 | 29 | 33 | 29 | 26 | 29 | 26 | 23 |
| 9   | 54  | 42  | 35  | 30  | 50  | 40  | 33  | 29  | 35 | 30 | 26 | 31 | 27 | 24 | 27 | 24 | 21 |
| 10  | 50  | 39  | 32  | 27  | 47  | 37  | 30  | 26  | 33 | 27 | 24 | 29 | 25 | 22 | 25 | 22 | 20 |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 23247 | 23247 | 23247 | 23247 |
| 5°  | 23302 | 24693 | 23383 | 19726 |
| 10° | 23046 | 26100 | 23209 | 16290 |
| 15° | 22546 | 26107 | 22927 | 12237 |
| 20° | 21943 | 21581 | 22421 | 10097 |
| 25° | 21215 | 13485 | 21672 | 8588  |
| 30° | 20283 | 8634  | 20834 | 7394  |
| 35° | 19151 | 6635  | 19770 | 6327  |
| 40° | 17887 | 5577  | 18652 | 5535  |
| 45° | 16539 | 4747  | 17230 | 4647  |
| 50° | 15156 | 4033  | 15864 | 4019  |
| 55° | 13624 | 3505  | 14360 | 3460  |
| 60° | 12265 | 2672  | 12915 | 2641  |
| 65° | 10992 | 2012  | 11646 | 2282  |
| 70° | 9593  | 1606  | 10342 | 1859  |
| 75° | 8106  | 1231  | 8850  | 1407  |
| 80° | 6435  | 837   | 6930  | 923   |
| 85° | 4464  | 433   | 4902  | 456   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 21267 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.3  | 3.0       |
| 10°-20°   | 388.8  | 8.4       |
| 20°-30°   | 500.4  | 10.8      |
| 30°-40°   | 474.7  | 10.2      |
| 40°-50°   | 406.9  | 8.8       |
| 50°-60°   | 309.9  | 6.7       |
| 60°-70°   | 195.4  | 4.2       |
| 70°-80°   | 97.5   | 2.1       |
| 80°-90°   | 26.3   | 0.6       |
| 90°-100°  | 23.7   | 0.5       |
| 100°-110° | 88.3   | 1.9       |
| 110°-120° | 234.3  | 5.0       |
| 120°-130° | 388.6  | 8.4       |
| 130°-140° | 412.7  | 8.9       |
| 140°-150° | 383.6  | 8.3       |
| 150°-160° | 308.4  | 6.6       |
| 160°-170° | 198.7  | 4.3       |
| 170°-180° | 68.4   | 1.5       |
| 0°-30°    | 1028.6 | 22.1      |
| 0°-40°    | 1503.3 | 32.4      |
| 0°-60°    | 2220.0 | 47.8      |
| 0°-90°    | 2539.3 | 54.7      |
| 90°-120°  | 346.3  | 7.5       |
| 90°-150°  | 1531.2 | 33.0      |
| 90°-180°  | 2107.0 | 45.4      |
| 0°-180°   | 4646.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1469 | 1469 | 1469 | 1469 | 1469 |      |
| 5°   | 1470 | 1634 | 1475 | 1305 | 1470 | 139  |
| 15°  | 1385 | 1844 | 1408 | 864  | 1385 | 390  |
| 25°  | 1229 | 984  | 1255 | 627  | 1229 | 564  |
| 35°  | 1008 | 485  | 1041 | 462  | 1008 | 631  |
| 45°  | 757  | 337  | 789  | 330  | 757  | 585  |
| 55°  | 511  | 234  | 539  | 231  | 511  | 461  |
| 65°  | 309  | 122  | 328  | 138  | 309  | 307  |
| 75°  | 145  | 64   | 158  | 74   | 145  | 157  |
| 85°  | 32   | 18   | 35   | 19   | 32   | 36   |
| 90°  | 0    | 14   | 0    | 14   | 0    | 4    |
| 95°  | 34   | 22   | 34   | 22   | 34   | 40   |
| 105° | 158  | 40   | 158  | 40   | 158  | 169  |
| 115° | 299  | 43   | 299  | 43   | 299  | 294  |
| 125° | 423  | 445  | 423  | 445  | 423  | 377  |
| 135° | 523  | 540  | 523  | 540  | 523  | 404  |
| 145° | 607  | 616  | 607  | 616  | 607  | 380  |
| 155° | 668  | 669  | 668  | 669  | 668  | 308  |
| 165° | 704  | 702  | 704  | 702  | 704  | 199  |
| 175° | 720  | 716  | 720  | 716  | 720  | 69   |
| 180° | 719  | 719  | 719  | 719  | 719  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1477.8 | 1484.0 | 1487.0 | 1491.1 | 1500.3 | 1506.4 | 1515.6 | 1517.6 | 1516.6 | 1520.7 | 1509.5 |
| 5°     | 1469.7 | 1482.9 | 1495.2 | 1505.4 | 1521.7 | 1531.9 | 1543.1 | 1556.4 | 1559.5 | 1574.8 | 1565.6 |
| 7.5°   | 1458.4 | 1477.8 | 1495.2 | 1515.6 | 1540.1 | 1553.4 | 1570.7 | 1591.1 | 1600.3 | 1618.7 | 1623.8 |
| 10°    | 1440.1 | 1467.6 | 1497.2 | 1518.7 | 1552.3 | 1575.8 | 1592.1 | 1624.8 | 1646.2 | 1673.8 | 1669.7 |
| 12.5°  | 1410.5 | 1446.2 | 1486.0 | 1521.7 | 1565.6 | 1580.9 | 1611.5 | 1645.2 | 1672.8 | 1698.3 | 1720.7 |
| 15°    | 1385.0 | 1425.8 | 1469.7 | 1513.6 | 1563.6 | 1592.1 | 1622.8 | 1666.6 | 1696.2 | 1741.1 | 1760.5 |
| 17.5°  | 1350.3 | 1402.3 | 1454.4 | 1503.3 | 1562.5 | 1595.2 | 1633.0 | 1675.8 | 1719.7 | 1762.6 | 1777.9 |
| 20°    | 1314.5 | 1370.7 | 1426.8 | 1493.1 | 1560.5 | 1592.1 | 1630.9 | 1684.0 | 1726.9 | 1760.5 | 1760.5 |
| 22.5°  | 1271.7 | 1340.0 | 1404.3 | 1467.6 | 1541.1 | 1587.0 | 1626.8 | 1689.1 | 1719.7 | 1726.9 | 1699.3 |
| 25°    | 1228.8 | 1297.2 | 1367.6 | 1446.2 | 1529.9 | 1570.7 | 1615.6 | 1673.8 | 1684.0 | 1655.4 | 1584.0 |
| 27.5°  | 1177.8 | 1254.3 | 1333.9 | 1418.6 | 1506.4 | 1557.4 | 1598.3 | 1637.0 | 1617.7 | 1541.1 | 1429.9 |
| 30°    | 1125.7 | 1208.4 | 1298.2 | 1378.8 | 1485.0 | 1531.9 | 1566.6 | 1577.8 | 1516.6 | 1392.1 | 1248.2 |
| 32.5°  | 1071.6 | 1152.3 | 1247.2 | 1344.1 | 1451.3 | 1496.2 | 1518.7 | 1489.1 | 1376.8 | 1219.6 | 1044.1 |
| 35°    | 1008.4 | 1099.2 | 1198.2 | 1299.2 | 1405.4 | 1439.0 | 1452.3 | 1379.9 | 1235.9 | 1032.8 | 858.3  |
| 37.5°  | 951.2  | 1042.0 | 1148.2 | 1251.3 | 1354.3 | 1372.7 | 1359.4 | 1246.2 | 1063.5 | 862.4  | 692.0  |
| 40°    | 883.8  | 980.8  | 1084.9 | 1200.2 | 1284.9 | 1290.0 | 1257.4 | 1110.4 | 883.8  | 695.0  | 589.9  |
| 42.5°  | 821.6  | 919.6  | 1023.7 | 1141.0 | 1205.3 | 1188.0 | 1144.1 | 951.2  | 737.9  | 599.1  | 514.4  |
| 45°    | 757.3  | 850.2  | 962.4  | 1066.5 | 1112.5 | 1071.6 | 1005.3 | 800.2  | 619.5  | 515.4  | 450.1  |
| 47.5°  | 695.0  | 781.8  | 893.0  | 993.0  | 1001.2 | 955.3  | 876.7  | 670.5  | 536.8  | 453.1  | 400.1  |
| 50°    | 633.8  | 720.5  | 824.6  | 907.3  | 899.1  | 835.9  | 747.1  | 582.8  | 466.4  | 400.1  | 356.2  |
| 52.5°  | 572.6  | 651.1  | 752.2  | 817.5  | 782.8  | 721.6  | 633.8  | 494.0  | 407.2  | 349.0  | 315.4  |
| 55°    | 511.3  | 584.8  | 671.6  | 725.6  | 670.5  | 600.1  | 537.9  | 423.5  | 353.1  | 306.2  | 280.7  |
| 57.5°  | 460.3  | 518.5  | 598.1  | 630.7  | 564.4  | 509.3  | 455.2  | 364.4  | 306.2  | 272.5  | 242.9  |
| 60°    | 404.2  | 457.2  | 522.5  | 541.9  | 473.6  | 428.7  | 382.7  | 308.2  | 262.3  | 232.7  | 213.3  |
| 62.5°  | 356.2  | 400.1  | 450.1  | 450.1  | 389.9  | 356.2  | 321.5  | 258.2  | 220.4  | 197.0  | 187.8  |
| 65°    | 309.2  | 340.9  | 376.6  | 372.5  | 321.5  | 291.9  | 264.3  | 213.3  | 184.7  | 168.4  | 159.2  |
| 67.5°  | 263.3  | 287.8  | 311.3  | 297.0  | 260.3  | 234.7  | 209.2  | 172.5  | 153.1  | 141.9  | 129.6  |
| 70°    | 221.5  | 240.9  | 253.1  | 239.8  | 203.1  | 181.7  | 163.3  | 138.8  | 123.5  | 109.2  | 102.1  |
| 72.5°  | 185.7  | 193.9  | 198.0  | 181.7  | 151.0  | 138.8  | 125.5  | 108.2  | 94.9   | 87.8   | 85.7   |
| 75°    | 144.9  | 152.1  | 149.0  | 136.8  | 111.2  | 102.1  | 91.9   | 79.6   | 76.5   | 72.5   | 70.4   |
| 77.5°  | 113.3  | 113.3  | 108.2  | 97.0   | 79.6   | 72.5   | 68.4   | 62.3   | 59.2   | 58.2   | 56.1   |
| 80°    | 80.6   | 79.6   | 76.5   | 64.3   | 54.1   | 50.0   | 50.0   | 45.9   | 44.9   | 42.9   | 42.9   |
| 82.5°  | 53.1   | 53.1   | 49.0   | 38.8   | 35.7   | 34.7   | 33.7   | 31.6   | 31.6   | 30.6   | 30.6   |
| 85°    | 31.6   | 29.6   | 24.5   | 21.4   | 20.4   | 20.4   | 19.4   | 18.4   | 19.4   | 18.4   | 18.4   |
| 87.5°  | 14.3   | 11.2   | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    |
| 90°    | 0.5    | 1.8    | 3.0    | 4.3    | 5.6    | 6.2    | 6.7    | 7.6    | 8.5    | 9.5    | 10.4   |
| 92.5°  | 13.0   | 12.5   | 12.1   | 11.6   | 11.1   | 10.9   | 11.1   | 11.4   | 11.8   | 12.1   | 12.5   |
| 95°    | 33.8   | 30.0   | 26.2   | 22.3   | 18.5   | 16.6   | 17.0   | 17.8   | 18.7   | 19.5   | 20.3   |
| 97.5°  | 60.8   | 51.3   | 41.9   | 32.4   | 22.9   | 18.2   | 19.1   | 21.0   | 22.8   | 24.7   | 26.5   |
| 100°   | 92.0   | 76.2   | 60.4   | 44.5   | 28.7   | 20.8   | 21.8   | 23.7   | 25.7   | 27.6   | 29.6   |
| 102.5° | 126.4  | 126.2  | 125.9  | 125.7  | 125.4  | 125.3  | 114.8  | 93.8   | 72.7   | 51.7   | 30.7   |
| 105°   | 158.1  | 161.6  | 165.0  | 168.5  | 172.0  | 173.7  | 157.9  | 126.4  | 94.8   | 63.3   | 31.7   |
| 107.5° | 195.0  | 197.9  | 200.8  | 203.7  | 206.6  | 208.0  | 188.5  | 149.6  | 110.7  | 71.7   | 32.8   |
| 110°   | 230.4  | 232.8  | 235.2  | 237.7  | 240.1  | 241.3  | 224.6  | 191.2  | 157.8  | 124.4  | 91.0   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 263.6 | 265.7 | 267.8 | 269.9 | 272.0 | 273.0 | 272.0 | 270.1 | 268.1 | 266.2 | 264.2 |
| 115°   | 299.0 | 301.0 | 302.9 | 304.9 | 306.8 | 307.8 | 309.2 | 312.1 | 315.0 | 317.9 | 320.8 |
| 117.5° | 329.7 | 332.0 | 334.3 | 336.6 | 338.9 | 340.1 | 341.1 | 343.0 | 345.0 | 346.9 | 348.9 |
| 120°   | 364.0 | 365.7 | 367.5 | 369.2 | 370.9 | 371.8 | 372.8 | 374.9 | 377.0 | 379.0 | 381.1 |
| 122.5° | 393.1 | 394.9 | 396.8 | 398.6 | 400.5 | 401.4 | 402.6 | 404.9 | 407.2 | 409.5 | 411.8 |
| 125°   | 422.7 | 424.2 | 425.7 | 427.2 | 428.7 | 429.5 | 430.6 | 432.8 | 435.0 | 437.2 | 439.4 |
| 127.5° | 449.8 | 451.4 | 453.0 | 454.7 | 456.3 | 457.1 | 458.0 | 459.7 | 461.4 | 463.2 | 464.9 |
| 130°   | 475.3 | 477.1 | 479.0 | 480.8 | 482.7 | 483.6 | 484.2 | 485.5 | 486.8 | 488.0 | 489.3 |
| 132.5° | 501.3 | 502.8 | 504.3 | 505.8 | 507.3 | 508.0 | 508.6 | 509.9 | 511.2 | 512.4 | 513.7 |
| 135°   | 523.1 | 524.9 | 526.8 | 528.6 | 530.5 | 531.4 | 531.9 | 533.0 | 534.0 | 535.1 | 536.1 |
| 137.5° | 546.0 | 547.4 | 548.8 | 550.1 | 551.5 | 552.2 | 552.8 | 553.9 | 555.1 | 556.2 | 557.4 |
| 140°   | 568.3 | 569.2 | 570.2 | 571.1 | 572.0 | 572.5 | 573.1 | 574.4 | 575.7 | 576.9 | 578.2 |
| 142.5° | 587.1 | 587.9 | 588.7 | 589.5 | 590.3 | 590.7 | 591.5 | 593.0 | 594.5 | 596.0 | 597.5 |
| 145°   | 606.8 | 606.7 | 606.6 | 606.5 | 606.4 | 606.3 | 607.3 | 609.2 | 611.2 | 613.1 | 615.1 |
| 147.5° | 624.0 | 623.6 | 623.3 | 622.9 | 622.6 | 622.4 | 623.4 | 625.4 | 627.3 | 629.3 | 631.3 |
| 150°   | 640.6 | 639.8 | 639.0 | 638.2 | 637.4 | 637.0 | 637.9 | 639.8 | 641.6 | 643.5 | 645.3 |
| 152.5° | 654.7 | 653.8 | 652.8 | 651.9 | 651.0 | 650.5 | 651.4 | 653.1 | 654.8 | 656.6 | 658.3 |
| 155°   | 668.2 | 667.2 | 666.1 | 665.1 | 664.0 | 663.5 | 664.2 | 665.6 | 666.9 | 668.3 | 669.7 |
| 157.5° | 679.1 | 678.2 | 677.2 | 676.3 | 675.4 | 674.9 | 675.4 | 676.5 | 677.5 | 678.6 | 679.6 |
| 160°   | 688.5 | 687.8 | 687.1 | 686.4 | 685.7 | 685.3 | 685.7 | 686.4 | 687.1 | 687.8 | 688.5 |
| 162.5° | 696.8 | 696.1 | 695.4 | 694.7 | 694.0 | 693.7 | 694.0 | 694.6 | 695.1 | 695.7 | 696.3 |
| 165°   | 704.1 | 703.4 | 702.7 | 702.0 | 701.3 | 700.9 | 701.1 | 701.4 | 701.8 | 702.1 | 702.5 |
| 167.5° | 709.8 | 709.1 | 708.4 | 707.7 | 707.0 | 706.7 | 706.9 | 707.2 | 707.5 | 707.9 | 708.2 |
| 170°   | 714.5 | 713.8 | 713.1 | 712.4 | 711.7 | 711.3 | 711.4 | 711.7 | 711.9 | 712.2 | 712.4 |
| 172.5° | 717.6 | 716.9 | 716.2 | 715.5 | 714.8 | 714.5 | 714.6 | 714.8 | 715.1 | 715.3 | 715.5 |
| 175°   | 720.2 | 719.4 | 718.6 | 717.7 | 716.9 | 716.5 | 716.6 | 716.9 | 717.1 | 717.4 | 717.6 |
| 177.5° | 721.2 | 720.4 | 719.6 | 718.8 | 718.0 | 717.6 | 717.7 | 717.8 | 717.9 | 718.0 | 718.1 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1520.7 | 1522.7 | 1525.8 | 1540.1 | 1542.1 | 1546.2 | 1544.2 | 1544.2 | 1545.2 | 1543.1 | 1544.2 |
| 5°     | 1586.0 | 1589.1 | 1604.4 | 1621.7 | 1625.8 | 1621.7 | 1626.8 | 1634.0 | 1634.0 | 1634.0 | 1631.9 |
| 7.5°   | 1647.2 | 1658.5 | 1675.8 | 1701.3 | 1706.4 | 1711.5 | 1720.7 | 1714.6 | 1716.7 | 1725.8 | 1722.8 |
| 10°    | 1706.4 | 1722.8 | 1742.2 | 1763.6 | 1774.8 | 1782.0 | 1786.1 | 1795.2 | 1816.7 | 1792.2 | 1801.4 |
| 12.5°  | 1762.6 | 1786.1 | 1806.5 | 1829.9 | 1838.1 | 1847.3 | 1850.3 | 1858.5 | 1858.5 | 1857.5 | 1864.6 |
| 15°    | 1799.3 | 1820.8 | 1839.1 | 1854.4 | 1856.5 | 1854.4 | 1852.4 | 1853.4 | 1856.5 | 1844.2 | 1851.4 |
| 17.5°  | 1807.5 | 1809.5 | 1815.6 | 1809.5 | 1810.5 | 1789.1 | 1776.9 | 1773.8 | 1745.2 | 1746.2 | 1769.7 |
| 20°    | 1767.7 | 1733.0 | 1723.8 | 1690.1 | 1669.7 | 1614.6 | 1612.5 | 1597.2 | 1537.0 | 1555.4 | 1551.3 |
| 22.5°  | 1658.5 | 1599.3 | 1520.7 | 1481.9 | 1462.5 | 1404.3 | 1359.4 | 1327.8 | 1306.4 | 1284.9 | 1275.8 |
| 25°    | 1514.6 | 1418.6 | 1307.4 | 1230.8 | 1219.6 | 1165.5 | 1082.9 | 1044.1 | 998.1  | 983.9  | 1008.4 |
| 27.5°  | 1328.8 | 1204.3 | 1078.8 | 961.4  | 940.0  | 891.0  | 849.1  | 821.6  | 768.5  | 765.5  | 767.5  |
| 30°    | 1076.7 | 951.2  | 846.1  | 769.5  | 716.5  | 694.0  | 666.5  | 646.0  | 624.6  | 632.8  | 634.8  |
| 32.5°  | 884.9  | 765.5  | 667.5  | 626.6  | 602.2  | 587.9  | 564.4  | 551.1  | 541.9  | 538.9  | 537.9  |
| 35°    | 703.2  | 623.6  | 579.7  | 539.9  | 525.6  | 515.4  | 498.1  | 491.9  | 483.8  | 484.8  | 484.8  |
| 37.5°  | 602.2  | 535.8  | 503.2  | 482.7  | 469.5  | 464.4  | 453.1  | 447.0  | 441.9  | 439.9  | 442.9  |
| 40°    | 519.5  | 473.6  | 453.1  | 434.8  | 423.5  | 421.5  | 415.4  | 408.2  | 402.1  | 403.1  | 406.2  |
| 42.5°  | 459.3  | 432.7  | 408.2  | 394.0  | 385.8  | 382.7  | 377.6  | 372.5  | 372.5  | 369.5  | 368.4  |
| 45°    | 411.3  | 389.9  | 369.5  | 356.2  | 351.1  | 347.0  | 340.9  | 339.9  | 335.8  | 336.8  | 337.8  |
| 47.5°  | 368.4  | 351.1  | 335.8  | 322.5  | 317.4  | 316.4  | 310.3  | 306.2  | 306.2  | 305.2  | 304.1  |
| 50°    | 329.7  | 312.3  | 299.0  | 291.9  | 284.7  | 282.7  | 281.7  | 280.7  | 278.6  | 278.6  | 279.6  |
| 52.5°  | 298.0  | 280.7  | 270.5  | 264.3  | 260.3  | 258.2  | 258.2  | 257.2  | 257.2  | 257.2  | 256.2  |
| 55°    | 263.3  | 249.0  | 240.9  | 238.8  | 236.8  | 235.8  | 234.7  | 232.7  | 231.7  | 233.7  | 231.7  |
| 57.5°  | 230.7  | 225.6  | 218.4  | 216.4  | 211.3  | 211.3  | 208.2  | 206.2  | 204.1  | 206.2  | 206.2  |
| 60°    | 205.1  | 198.0  | 193.9  | 187.8  | 183.7  | 179.6  | 174.5  | 173.5  | 171.5  | 170.4  | 169.4  |
| 62.5°  | 178.6  | 172.5  | 162.3  | 153.1  | 147.0  | 142.9  | 140.8  | 139.8  | 139.8  | 138.8  | 138.8  |
| 65°    | 149.0  | 134.7  | 129.6  | 126.6  | 125.5  | 124.5  | 122.5  | 121.5  | 122.5  | 121.5  | 122.5  |
| 67.5°  | 116.3  | 114.3  | 111.2  | 109.2  | 108.2  | 107.2  | 107.2  | 106.1  | 106.1  | 106.1  | 106.1  |
| 70°    | 101.0  | 95.9   | 94.9   | 92.9   | 92.9   | 91.9   | 91.9   | 91.9   | 91.9   | 90.8   | 92.9   |
| 72.5°  | 83.7   | 80.6   | 79.6   | 78.6   | 78.6   | 78.6   | 77.6   | 77.6   | 77.6   | 76.5   | 77.6   |
| 75°    | 68.4   | 67.4   | 65.3   | 65.3   | 64.3   | 65.3   | 64.3   | 64.3   | 63.3   | 64.3   | 64.3   |
| 77.5°  | 55.1   | 54.1   | 53.1   | 53.1   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   | 53.1   |
| 80°    | 41.8   | 40.8   | 39.8   | 40.8   | 39.8   | 40.8   | 39.8   | 39.8   | 40.8   | 39.8   | 39.8   |
| 82.5°  | 30.6   | 29.6   | 29.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   | 28.6   |
| 85°    | 18.4   | 17.4   | 17.4   | 18.4   | 17.4   | 18.4   | 17.4   | 17.4   | 17.4   | 18.4   | 18.4   |
| 87.5°  | 8.2    | 9.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 9.2    |
| 90°    | 11.0   | 11.6   | 12.1   | 12.7   | 13.0   | 13.1   | 13.3   | 13.6   | 13.8   | 14.0   | 13.8   |
| 92.5°  | 12.7   | 12.9   | 13.2   | 13.4   | 13.5   | 13.6   | 13.7   | 13.8   | 13.9   | 14.0   | 13.9   |
| 95°    | 20.9   | 21.5   | 22.0   | 22.6   | 22.9   | 22.8   | 22.7   | 22.6   | 22.5   | 22.4   | 22.5   |
| 97.5°  | 26.9   | 27.2   | 27.6   | 27.9   | 28.1   | 28.2   | 28.3   | 28.4   | 28.5   | 28.6   | 28.5   |
| 100°   | 30.5   | 31.5   | 32.4   | 33.3   | 33.8   | 33.9   | 34.1   | 34.4   | 34.6   | 34.8   | 34.6   |
| 102.5° | 32.0   | 33.2   | 34.5   | 35.8   | 36.4   | 36.6   | 36.9   | 37.3   | 37.6   | 38.0   | 37.6   |
| 105°   | 33.0   | 34.2   | 35.5   | 36.8   | 37.4   | 37.6   | 38.1   | 38.6   | 39.0   | 39.5   | 39.0   |
| 107.5° | 34.1   | 35.3   | 36.6   | 37.9   | 38.5   | 38.7   | 39.2   | 39.7   | 40.1   | 40.6   | 40.1   |
| 110°   | 79.4   | 67.9   | 56.3   | 44.8   | 39.0   | 39.2   | 39.7   | 40.2   | 40.6   | 41.1   | 40.6   |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.4 | 164.6 | 114.7 | 64.9  | 40.0  | 40.2  | 40.5  | 40.9  | 41.2  | 41.6  | 41.2  |
| 115°   | 267.3 | 213.8 | 160.3 | 106.8 | 80.1  | 75.9  | 67.6  | 59.3  | 50.9  | 42.6  | 50.9  |
| 117.5° | 332.4 | 315.9 | 299.4 | 282.9 | 274.6 | 259.5 | 229.2 | 198.9 | 168.6 | 138.3 | 168.6 |
| 120°   | 382.5 | 383.9 | 385.3 | 386.7 | 387.4 | 379.6 | 364.0 | 348.4 | 332.8 | 317.2 | 332.8 |
| 122.5° | 412.5 | 413.2 | 413.9 | 414.6 | 414.9 | 415.0 | 415.1 | 415.2 | 415.4 | 415.5 | 415.4 |
| 125°   | 440.2 | 441.0 | 441.8 | 442.6 | 443.0 | 443.2 | 443.5 | 443.9 | 444.2 | 444.6 | 444.2 |
| 127.5° | 466.1 | 467.2 | 468.4 | 469.5 | 470.1 | 470.2 | 470.3 | 470.4 | 470.5 | 470.6 | 470.5 |
| 130°   | 490.6 | 491.8 | 493.1 | 494.4 | 495.0 | 494.9 | 494.8 | 494.7 | 494.6 | 494.5 | 494.6 |
| 132.5° | 514.7 | 515.8 | 516.8 | 517.9 | 518.4 | 518.3 | 518.2 | 518.1 | 518.0 | 517.9 | 518.0 |
| 135°   | 537.3 | 538.4 | 539.6 | 540.7 | 541.3 | 541.2 | 541.0 | 540.7 | 540.5 | 540.3 | 540.5 |
| 137.5° | 558.6 | 559.7 | 560.9 | 562.0 | 562.6 | 562.4 | 562.1 | 561.8 | 561.4 | 561.1 | 561.4 |
| 140°   | 579.2 | 580.3 | 581.3 | 582.4 | 582.9 | 582.6 | 582.0 | 581.5 | 580.9 | 580.3 | 580.9 |
| 142.5° | 598.4 | 599.3 | 600.2 | 601.1 | 601.6 | 601.3 | 600.7 | 600.2 | 599.6 | 599.0 | 599.6 |
| 145°   | 615.9 | 616.7 | 617.6 | 618.4 | 618.8 | 618.5 | 617.9 | 617.4 | 616.8 | 616.2 | 616.8 |
| 147.5° | 631.9 | 632.5 | 633.0 | 633.6 | 633.9 | 633.7 | 633.2 | 632.7 | 632.3 | 631.8 | 632.3 |
| 150°   | 646.0 | 646.7 | 647.4 | 648.1 | 648.4 | 648.1 | 647.5 | 647.0 | 646.4 | 645.8 | 646.4 |
| 152.5° | 659.0 | 659.7 | 660.4 | 661.1 | 661.4 | 661.0 | 660.2 | 659.4 | 658.6 | 657.8 | 658.6 |
| 155°   | 670.4 | 671.1 | 671.8 | 672.5 | 672.9 | 672.4 | 671.5 | 670.6 | 669.6 | 668.7 | 669.6 |
| 157.5° | 680.4 | 681.2 | 682.1 | 682.9 | 683.3 | 682.8 | 681.9 | 681.0 | 680.0 | 679.1 | 680.0 |
| 160°   | 689.2 | 689.9 | 690.6 | 691.3 | 691.6 | 691.2 | 690.4 | 689.5 | 688.7 | 687.9 | 688.7 |
| 162.5° | 697.1 | 697.9 | 698.7 | 699.5 | 699.9 | 699.4 | 698.3 | 697.3 | 696.2 | 695.2 | 696.2 |
| 165°   | 703.3 | 704.1 | 704.9 | 705.7 | 706.1 | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 703.3 |
| 167.5° | 709.0 | 709.8 | 710.7 | 711.5 | 711.9 | 711.4 | 710.3 | 709.3 | 708.2 | 707.2 | 708.2 |
| 170°   | 713.2 | 714.0 | 714.8 | 715.6 | 716.0 | 715.5 | 714.4 | 713.4 | 712.3 | 711.3 | 712.3 |
| 172.5° | 716.3 | 717.1 | 717.9 | 718.7 | 719.1 | 718.6 | 717.6 | 716.5 | 715.5 | 714.5 | 715.5 |
| 175°   | 718.4 | 719.2 | 720.0 | 720.8 | 721.2 | 720.6 | 719.5 | 718.3 | 717.2 | 716.0 | 717.2 |
| 177.5° | 718.9 | 719.7 | 720.5 | 721.3 | 721.7 | 721.2 | 720.2 | 719.1 | 718.1 | 717.1 | 718.1 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1548.3 | 1541.1 | 1539.1 | 1541.1 | 1539.1 | 1540.1 | 1532.9 | 1506.4 | 1513.6 | 1502.3 | 1508.4 |
| 5°     | 1636.0 | 1629.9 | 1616.6 | 1614.6 | 1612.5 | 1610.5 | 1600.3 | 1576.8 | 1567.6 | 1552.3 | 1551.3 |
| 7.5°   | 1719.7 | 1719.7 | 1709.5 | 1702.4 | 1693.2 | 1686.0 | 1672.8 | 1638.1 | 1623.8 | 1605.4 | 1595.2 |
| 10°    | 1802.4 | 1775.8 | 1787.1 | 1779.9 | 1757.5 | 1753.4 | 1728.9 | 1708.5 | 1680.9 | 1662.6 | 1646.2 |
| 12.5°  | 1861.6 | 1853.4 | 1843.2 | 1837.1 | 1831.0 | 1817.7 | 1801.4 | 1749.3 | 1735.0 | 1698.3 | 1679.9 |
| 15°    | 1859.5 | 1854.4 | 1857.5 | 1857.5 | 1855.5 | 1852.4 | 1839.1 | 1801.4 | 1776.9 | 1741.1 | 1709.5 |
| 17.5°  | 1759.5 | 1772.8 | 1786.1 | 1795.2 | 1815.6 | 1824.8 | 1837.1 | 1814.6 | 1799.3 | 1768.7 | 1735.0 |
| 20°    | 1585.0 | 1617.7 | 1656.4 | 1664.6 | 1683.0 | 1737.1 | 1761.6 | 1780.9 | 1787.1 | 1776.9 | 1749.3 |
| 22.5°  | 1342.1 | 1369.6 | 1463.5 | 1461.5 | 1488.0 | 1552.3 | 1623.8 | 1682.0 | 1727.9 | 1753.4 | 1743.2 |
| 25°    | 1051.2 | 1090.0 | 1140.0 | 1177.8 | 1264.5 | 1360.5 | 1449.3 | 1542.1 | 1621.7 | 1692.2 | 1709.5 |
| 27.5°  | 795.0  | 846.1  | 885.9  | 935.9  | 979.8  | 1093.1 | 1207.4 | 1352.3 | 1445.2 | 1578.9 | 1648.3 |
| 30°    | 643.0  | 666.5  | 706.3  | 729.7  | 751.2  | 837.9  | 967.5  | 1110.4 | 1273.7 | 1427.8 | 1547.2 |
| 32.5°  | 549.1  | 565.4  | 595.0  | 605.2  | 627.7  | 685.8  | 767.5  | 898.1  | 1066.5 | 1253.3 | 1410.5 |
| 35°    | 493.0  | 510.3  | 516.4  | 525.6  | 544.0  | 580.7  | 636.9  | 731.8  | 883.8  | 1066.5 | 1254.3 |
| 37.5°  | 445.0  | 454.2  | 471.5  | 477.6  | 483.8  | 511.3  | 549.1  | 615.4  | 716.5  | 866.5  | 1074.7 |
| 40°    | 411.3  | 416.4  | 425.6  | 430.7  | 434.8  | 454.2  | 487.8  | 532.8  | 607.3  | 721.6  | 913.4  |
| 42.5°  | 375.6  | 381.7  | 387.8  | 394.0  | 399.1  | 414.4  | 434.8  | 477.6  | 527.7  | 614.4  | 753.2  |
| 45°    | 340.9  | 345.0  | 352.1  | 356.2  | 363.3  | 375.6  | 394.0  | 423.5  | 468.5  | 523.6  | 635.8  |
| 47.5°  | 309.2  | 314.3  | 317.4  | 322.5  | 327.6  | 340.9  | 358.2  | 377.6  | 414.4  | 468.5  | 550.1  |
| 50°    | 280.7  | 286.8  | 290.9  | 291.9  | 296.0  | 308.2  | 322.5  | 343.9  | 367.4  | 409.3  | 480.7  |
| 52.5°  | 260.3  | 261.3  | 264.3  | 268.4  | 267.4  | 274.5  | 287.8  | 304.1  | 328.6  | 362.3  | 414.4  |
| 55°    | 236.8  | 239.8  | 241.9  | 242.9  | 242.9  | 249.0  | 256.2  | 271.5  | 290.9  | 318.4  | 362.3  |
| 57.5°  | 207.2  | 210.2  | 216.4  | 218.4  | 221.5  | 224.5  | 227.6  | 237.8  | 254.1  | 280.7  | 316.4  |
| 60°    | 176.6  | 178.6  | 184.7  | 188.8  | 190.9  | 199.0  | 203.1  | 211.3  | 220.4  | 239.8  | 273.5  |
| 62.5°  | 141.9  | 143.9  | 147.0  | 151.0  | 155.1  | 167.4  | 177.6  | 185.7  | 192.9  | 206.2  | 233.7  |
| 65°    | 123.5  | 124.5  | 126.6  | 127.6  | 128.6  | 133.7  | 142.9  | 154.1  | 167.4  | 177.6  | 193.9  |
| 67.5°  | 107.2  | 108.2  | 109.2  | 111.2  | 112.3  | 113.3  | 117.4  | 120.4  | 133.7  | 148.0  | 160.2  |
| 70°    | 91.9   | 93.9   | 94.9   | 94.9   | 95.9   | 98.0   | 100.0  | 104.1  | 108.2  | 115.3  | 130.6  |
| 72.5°  | 77.6   | 78.6   | 80.6   | 80.6   | 80.6   | 82.7   | 84.7   | 86.8   | 88.8   | 92.9   | 99.0   |
| 75°    | 64.3   | 66.3   | 66.3   | 66.3   | 67.4   | 67.4   | 69.4   | 71.4   | 73.5   | 76.5   | 78.6   |
| 77.5°  | 53.1   | 53.1   | 53.1   | 53.1   | 54.1   | 54.1   | 55.1   | 57.2   | 58.2   | 59.2   | 61.2   |
| 80°    | 39.8   | 40.8   | 40.8   | 40.8   | 41.8   | 41.8   | 41.8   | 43.9   | 44.9   | 44.9   | 46.9   |
| 82.5°  | 29.6   | 29.6   | 29.6   | 30.6   | 29.6   | 30.6   | 30.6   | 31.6   | 30.6   | 31.6   | 32.7   |
| 85°    | 18.4   | 18.4   | 18.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 20.4   |
| 87.5°  | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 10.2   | 9.2    | 9.2    |
| 90°    | 13.6   | 13.3   | 13.1   | 13.0   | 12.7   | 12.1   | 11.6   | 11.0   | 10.4   | 9.5    | 8.5    |
| 92.5°  | 13.8   | 13.7   | 13.6   | 13.5   | 13.4   | 13.2   | 12.9   | 12.7   | 12.5   | 12.1   | 11.8   |
| 95°    | 22.6   | 22.7   | 22.8   | 22.9   | 22.6   | 22.0   | 21.5   | 20.9   | 20.3   | 19.5   | 18.7   |
| 97.5°  | 28.4   | 28.3   | 28.2   | 28.1   | 27.9   | 27.6   | 27.2   | 26.9   | 26.5   | 24.7   | 22.8   |
| 100°   | 34.4   | 34.1   | 33.9   | 33.8   | 33.3   | 32.4   | 31.5   | 30.5   | 29.6   | 27.6   | 25.7   |
| 102.5° | 37.3   | 36.9   | 36.6   | 36.4   | 35.8   | 34.5   | 33.2   | 32.0   | 30.7   | 51.7   | 72.7   |
| 105°   | 38.6   | 38.1   | 37.6   | 37.4   | 36.8   | 35.5   | 34.2   | 33.0   | 31.7   | 63.3   | 94.8   |
| 107.5° | 39.7   | 39.2   | 38.7   | 38.5   | 37.9   | 36.6   | 35.3   | 34.1   | 32.8   | 71.7   | 110.7  |
| 110°   | 40.2   | 39.7   | 39.2   | 39.0   | 44.8   | 56.3   | 67.9   | 79.4   | 91.0   | 124.4  | 157.8  |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 40.9  | 40.5  | 40.2  | 40.0   | 64.9  | 114.7 | 164.6 | 214.4 | 264.2 | 266.2 | 268.1 |
| 115°   | 59.3  | 67.6  | 75.9  | 80.1   | 106.8 | 160.3 | 213.8 | 267.3 | 320.8 | 317.9 | 315.0 |
| 117.5° | 198.9 | 229.2 | 259.5 | 274.6  | 282.9 | 299.4 | 315.9 | 332.4 | 348.9 | 346.9 | 345.0 |
| 120°   | 348.4 | 364.0 | 379.6 | 387.4  | 386.7 | 385.3 | 383.9 | 382.5 | 381.1 | 379.0 | 377.0 |
| 122.5° | 415.2 | 415.1 | 415.0 | 414.9  | 414.6 | 413.9 | 413.2 | 412.5 | 411.8 | 409.5 | 407.2 |
| 125°   | 443.9 | 443.5 | 443.2 | 443.0  | 442.6 | 441.8 | 441.0 | 440.2 | 439.4 | 437.2 | 435.0 |
| 127.5° | 470.4 | 470.3 | 470.2 | 470.1  | 469.5 | 468.4 | 467.2 | 466.1 | 464.9 | 463.2 | 461.4 |
| 130°   | 494.7 | 494.8 | 494.9 | 495.0  | 494.4 | 493.1 | 491.8 | 490.6 | 489.3 | 488.0 | 486.8 |
| 132.5° | 518.1 | 518.2 | 518.3 | 518.4  | 517.9 | 516.8 | 515.8 | 514.7 | 513.7 | 512.4 | 511.2 |
| 135°   | 540.7 | 541.0 | 541.2 | 541.3  | 540.7 | 539.6 | 538.4 | 537.3 | 536.1 | 535.1 | 534.0 |
| 137.5° | 561.8 | 562.1 | 562.4 | 562.6  | 562.0 | 560.9 | 559.7 | 558.6 | 557.4 | 556.2 | 555.1 |
| 140°   | 581.5 | 582.0 | 582.6 | 582.9  | 582.4 | 581.3 | 580.3 | 579.2 | 578.2 | 576.9 | 575.7 |
| 142.5° | 600.2 | 600.7 | 601.3 | 601.6  | 601.1 | 600.2 | 599.3 | 598.4 | 597.5 | 596.0 | 594.5 |
| 145°   | 617.4 | 617.9 | 618.5 | 618.8  | 618.4 | 617.6 | 616.7 | 615.9 | 615.1 | 613.1 | 611.2 |
| 147.5° | 632.7 | 633.2 | 633.7 | 633.9  | 633.6 | 633.0 | 632.5 | 631.9 | 631.3 | 629.3 | 627.3 |
| 150°   | 647.0 | 647.5 | 648.1 | 648.4  | 648.1 | 647.4 | 646.7 | 646.0 | 645.3 | 643.5 | 641.6 |
| 152.5° | 659.4 | 660.2 | 661.0 | 661.4  | 661.1 | 660.4 | 659.7 | 659.0 | 658.3 | 656.6 | 654.8 |
| 155°   | 670.6 | 671.5 | 672.4 | 672.9  | 672.5 | 671.8 | 671.1 | 670.4 | 669.7 | 668.3 | 666.9 |
| 157.5° | 681.0 | 681.9 | 682.8 | 683.3  | 682.9 | 682.1 | 681.2 | 680.4 | 679.6 | 678.6 | 677.5 |
| 160°   | 689.5 | 690.4 | 691.2 | 691.6  | 691.3 | 690.6 | 689.9 | 689.2 | 688.5 | 687.8 | 687.1 |
| 162.5° | 697.3 | 698.3 | 699.4 | 699.9  | 699.5 | 698.7 | 697.9 | 697.1 | 696.3 | 695.7 | 695.1 |
| 165°   | 704.1 | 704.9 | 705.7 | 706.1  | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 702.1 | 701.8 |
| 167.5° | 709.3 | 710.3 | 711.4 | 711.9  | 711.5 | 710.7 | 709.8 | 709.0 | 708.2 | 707.9 | 707.5 |
| 170°   | 713.4 | 714.4 | 715.5 | 716.0  | 715.6 | 714.8 | 714.0 | 713.2 | 712.4 | 712.2 | 711.9 |
| 172.5° | 716.5 | 717.6 | 718.6 | 719.1  | 718.7 | 717.9 | 717.1 | 716.3 | 715.5 | 715.3 | 715.1 |
| 175°   | 718.3 | 719.5 | 720.6 | 721.2  | 720.8 | 720.0 | 719.2 | 718.4 | 717.6 | 717.4 | 717.1 |
| 177.5° | 719.1 | 720.2 | 721.2 | 721.7  | 721.3 | 720.5 | 719.7 | 718.9 | 718.1 | 718.0 | 717.9 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1499.3 | 1494.2 | 1494.2 | 1491.1 | 1491.1 | 1474.8 | 1474.8 | 1479.9 | 1473.7 | 1466.6 | 1456.4 |
| 5°     | 1538.0 | 1526.8 | 1523.8 | 1519.7 | 1506.4 | 1486.0 | 1477.8 | 1474.8 | 1462.5 | 1447.2 | 1429.9 |
| 7.5°   | 1574.8 | 1556.4 | 1547.2 | 1538.0 | 1520.7 | 1492.1 | 1475.8 | 1464.6 | 1446.2 | 1422.7 | 1400.3 |
| 10°    | 1610.5 | 1587.0 | 1563.6 | 1552.3 | 1527.8 | 1492.1 | 1468.6 | 1450.3 | 1423.7 | 1392.1 | 1360.5 |
| 12.5°  | 1643.2 | 1594.2 | 1590.1 | 1567.6 | 1531.9 | 1491.1 | 1455.4 | 1428.8 | 1395.2 | 1358.4 | 1321.7 |
| 15°    | 1671.7 | 1621.7 | 1597.2 | 1576.8 | 1529.9 | 1478.9 | 1441.1 | 1408.4 | 1363.5 | 1321.7 | 1276.8 |
| 17.5°  | 1686.0 | 1631.9 | 1615.6 | 1581.9 | 1534.0 | 1467.6 | 1416.6 | 1376.8 | 1327.8 | 1277.8 | 1226.8 |
| 20°    | 1700.3 | 1637.0 | 1610.5 | 1587.0 | 1521.7 | 1446.2 | 1389.0 | 1343.1 | 1289.0 | 1229.8 | 1173.7 |
| 22.5°  | 1707.5 | 1637.0 | 1605.4 | 1572.7 | 1509.5 | 1422.7 | 1355.4 | 1301.3 | 1238.0 | 1177.8 | 1110.4 |
| 25°    | 1695.2 | 1630.9 | 1593.2 | 1559.5 | 1488.0 | 1394.1 | 1316.6 | 1255.3 | 1188.0 | 1119.6 | 1051.2 |
| 27.5°  | 1664.6 | 1616.6 | 1572.7 | 1538.0 | 1458.4 | 1357.4 | 1275.8 | 1206.4 | 1136.9 | 1060.4 | 991.0  |
| 30°    | 1607.4 | 1586.0 | 1551.3 | 1512.5 | 1425.8 | 1324.7 | 1227.8 | 1156.3 | 1079.8 | 1003.3 | 930.8  |
| 32.5°  | 1518.7 | 1537.0 | 1514.6 | 1480.9 | 1387.0 | 1279.8 | 1176.8 | 1104.3 | 1020.6 | 937.9  | 871.6  |
| 35°    | 1410.5 | 1475.8 | 1463.5 | 1440.1 | 1346.2 | 1231.9 | 1128.8 | 1041.0 | 957.3  | 873.6  | 807.3  |
| 37.5°  | 1292.1 | 1391.1 | 1401.3 | 1387.0 | 1299.2 | 1182.9 | 1069.6 | 983.9  | 898.1  | 813.4  | 746.1  |
| 40°    | 1129.8 | 1281.9 | 1314.5 | 1320.7 | 1250.2 | 1123.7 | 1005.3 | 921.6  | 836.9  | 754.2  | 672.6  |
| 42.5°  | 980.8  | 1172.7 | 1213.5 | 1239.0 | 1188.0 | 1065.5 | 946.1  | 853.2  | 769.5  | 695.0  | 613.4  |
| 45°    | 841.0  | 1041.0 | 1107.4 | 1140.0 | 1117.6 | 999.2  | 875.7  | 788.9  | 712.4  | 644.0  | 565.4  |
| 47.5°  | 697.1  | 898.1  | 991.0  | 1043.1 | 1043.1 | 931.8  | 808.3  | 722.6  | 649.1  | 590.9  | 521.5  |
| 50°    | 601.1  | 768.5  | 864.4  | 932.8  | 951.2  | 863.4  | 747.1  | 663.4  | 594.0  | 530.7  | 477.6  |
| 52.5°  | 512.3  | 662.4  | 742.0  | 813.4  | 866.5  | 789.9  | 678.7  | 603.2  | 534.8  | 475.6  | 433.8  |
| 55°    | 442.9  | 555.2  | 627.7  | 706.3  | 765.5  | 715.4  | 612.4  | 538.9  | 479.7  | 430.7  | 395.0  |
| 57.5°  | 376.6  | 474.6  | 533.8  | 603.2  | 666.5  | 628.7  | 546.0  | 482.7  | 430.7  | 387.8  | 356.2  |
| 60°    | 320.5  | 400.1  | 446.0  | 500.1  | 578.7  | 552.1  | 483.8  | 425.6  | 383.7  | 345.0  | 318.4  |
| 62.5°  | 272.5  | 335.8  | 374.6  | 413.3  | 484.8  | 472.5  | 419.5  | 374.6  | 338.8  | 306.2  | 283.7  |
| 65°    | 223.5  | 275.6  | 306.2  | 339.9  | 397.0  | 402.1  | 359.3  | 327.6  | 295.0  | 266.4  | 246.0  |
| 67.5°  | 180.6  | 221.5  | 249.0  | 277.6  | 323.5  | 337.8  | 308.2  | 281.7  | 254.1  | 230.7  | 212.3  |
| 70°    | 145.9  | 174.5  | 194.9  | 217.4  | 255.2  | 272.5  | 257.2  | 238.8  | 216.4  | 197.0  | 180.6  |
| 72.5°  | 115.3  | 133.7  | 145.9  | 163.3  | 193.9  | 211.3  | 210.2  | 193.9  | 177.6  | 164.3  | 151.0  |
| 75°    | 84.7   | 99.0   | 109.2  | 120.4  | 144.9  | 161.3  | 165.3  | 158.2  | 141.9  | 131.7  | 121.5  |
| 77.5°  | 64.3   | 72.5   | 77.6   | 85.7   | 103.1  | 117.4  | 123.5  | 121.5  | 110.2  | 102.1  | 94.9   |
| 80°    | 49.0   | 51.0   | 53.1   | 56.1   | 70.4   | 83.7   | 87.8   | 86.8   | 80.6   | 77.6   | 69.4   |
| 82.5°  | 34.7   | 35.7   | 36.7   | 37.8   | 42.9   | 54.1   | 58.2   | 60.2   | 55.1   | 52.1   | 44.9   |
| 85°    | 20.4   | 21.4   | 21.4   | 23.5   | 24.5   | 27.6   | 34.7   | 34.7   | 33.7   | 29.6   | 28.6   |
| 87.5°  | 10.2   | 10.2   | 9.2    | 9.2    | 10.2   | 11.2   | 13.3   | 15.3   | 13.3   | 12.2   | 11.2   |
| 90°    | 7.6    | 6.7    | 6.2    | 5.6    | 4.3    | 3.0    | 1.8    | 0.5    | 1.8    | 3.0    | 4.3    |
| 92.5°  | 11.4   | 11.1   | 10.9   | 11.1   | 11.6   | 12.1   | 12.5   | 13.0   | 12.5   | 12.1   | 11.6   |
| 95°    | 17.8   | 17.0   | 16.6   | 18.5   | 22.3   | 26.2   | 30.0   | 33.8   | 30.0   | 26.2   | 22.3   |
| 97.5°  | 21.0   | 19.1   | 18.2   | 22.9   | 32.4   | 41.9   | 51.3   | 60.8   | 51.3   | 41.9   | 32.4   |
| 100°   | 23.7   | 21.8   | 20.8   | 28.7   | 44.5   | 60.4   | 76.2   | 92.0   | 76.2   | 60.4   | 44.5   |
| 102.5° | 93.8   | 114.8  | 125.3  | 125.4  | 125.7  | 125.9  | 126.2  | 126.4  | 126.2  | 125.9  | 125.7  |
| 105°   | 126.4  | 157.9  | 173.7  | 172.0  | 168.5  | 165.0  | 161.6  | 158.1  | 161.6  | 165.0  | 168.5  |
| 107.5° | 149.6  | 188.5  | 208.0  | 206.6  | 203.7  | 200.8  | 197.9  | 195.0  | 197.9  | 200.8  | 203.7  |
| 110°   | 191.2  | 224.6  | 241.3  | 240.1  | 237.7  | 235.2  | 232.8  | 230.4  | 232.8  | 235.2  | 237.7  |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 270.1 | 272.0 | 273.0  | 272.0 | 269.9 | 267.8 | 265.7 | 263.6 | 265.7 | 267.8 | 269.9 |
| 115°   | 312.1 | 309.2 | 307.8  | 306.8 | 304.9 | 302.9 | 301.0 | 299.0 | 301.0 | 302.9 | 304.9 |
| 117.5° | 343.0 | 341.1 | 340.1  | 338.9 | 336.6 | 334.3 | 332.0 | 329.7 | 332.0 | 334.3 | 336.6 |
| 120°   | 374.9 | 372.8 | 371.8  | 370.9 | 369.2 | 367.5 | 365.7 | 364.0 | 365.7 | 367.5 | 369.2 |
| 122.5° | 404.9 | 402.6 | 401.4  | 400.5 | 398.6 | 396.8 | 394.9 | 393.1 | 394.9 | 396.8 | 398.6 |
| 125°   | 432.8 | 430.6 | 429.5  | 428.7 | 427.2 | 425.7 | 424.2 | 422.7 | 424.2 | 425.7 | 427.2 |
| 127.5° | 459.7 | 458.0 | 457.1  | 456.3 | 454.7 | 453.0 | 451.4 | 449.8 | 451.4 | 453.0 | 454.7 |
| 130°   | 485.5 | 484.2 | 483.6  | 482.7 | 480.8 | 479.0 | 477.1 | 475.3 | 477.1 | 479.0 | 480.8 |
| 132.5° | 509.9 | 508.6 | 508.0  | 507.3 | 505.8 | 504.3 | 502.8 | 501.3 | 502.8 | 504.3 | 505.8 |
| 135°   | 533.0 | 531.9 | 531.4  | 530.5 | 528.6 | 526.8 | 524.9 | 523.1 | 524.9 | 526.8 | 528.6 |
| 137.5° | 553.9 | 552.8 | 552.2  | 551.5 | 550.1 | 548.8 | 547.4 | 546.0 | 547.4 | 548.8 | 550.1 |
| 140°   | 574.4 | 573.1 | 572.5  | 572.0 | 571.1 | 570.2 | 569.2 | 568.3 | 569.2 | 570.2 | 571.1 |
| 142.5° | 593.0 | 591.5 | 590.7  | 590.3 | 589.5 | 588.7 | 587.9 | 587.1 | 587.9 | 588.7 | 589.5 |
| 145°   | 609.2 | 607.3 | 606.3  | 606.4 | 606.5 | 606.6 | 606.7 | 606.8 | 606.7 | 606.6 | 606.5 |
| 147.5° | 625.4 | 623.4 | 622.4  | 622.6 | 622.9 | 623.3 | 623.6 | 624.0 | 623.6 | 623.3 | 622.9 |
| 150°   | 639.8 | 637.9 | 637.0  | 637.4 | 638.2 | 639.0 | 639.8 | 640.6 | 639.8 | 639.0 | 638.2 |
| 152.5° | 653.1 | 651.4 | 650.5  | 651.0 | 651.9 | 652.8 | 653.8 | 654.7 | 653.8 | 652.8 | 651.9 |
| 155°   | 665.6 | 664.2 | 663.5  | 664.0 | 665.1 | 666.1 | 667.2 | 668.2 | 667.2 | 666.1 | 665.1 |
| 157.5° | 676.5 | 675.4 | 674.9  | 675.4 | 676.3 | 677.2 | 678.2 | 679.1 | 678.2 | 677.2 | 676.3 |
| 160°   | 686.4 | 685.7 | 685.3  | 685.7 | 686.4 | 687.1 | 687.8 | 688.5 | 687.8 | 687.1 | 686.4 |
| 162.5° | 694.6 | 694.0 | 693.7  | 694.0 | 694.7 | 695.4 | 696.1 | 696.8 | 696.1 | 695.4 | 694.7 |
| 165°   | 701.4 | 701.1 | 700.9  | 701.3 | 702.0 | 702.7 | 703.4 | 704.1 | 703.4 | 702.7 | 702.0 |
| 167.5° | 707.2 | 706.9 | 706.7  | 707.0 | 707.7 | 708.4 | 709.1 | 709.8 | 709.1 | 708.4 | 707.7 |
| 170°   | 711.7 | 711.4 | 711.3  | 711.7 | 712.4 | 713.1 | 713.8 | 714.5 | 713.8 | 713.1 | 712.4 |
| 172.5° | 714.8 | 714.6 | 714.5  | 714.8 | 715.5 | 716.2 | 716.9 | 717.6 | 716.9 | 716.2 | 715.5 |
| 175°   | 716.9 | 716.6 | 716.5  | 716.9 | 717.7 | 718.6 | 719.4 | 720.2 | 719.4 | 718.6 | 717.7 |
| 177.5° | 717.8 | 717.7 | 717.6  | 718.0 | 718.8 | 719.6 | 720.4 | 721.2 | 720.4 | 719.6 | 718.8 |
| 180°   | 718.6 | 718.6 | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1452.3 | 1453.3 | 1456.4 | 1447.2 | 1432.9 | 1426.8 | 1408.4 | 1405.4 | 1402.3 | 1402.3 | 1405.4 |
| 5°     | 1419.7 | 1415.6 | 1416.6 | 1399.2 | 1378.8 | 1366.6 | 1341.1 | 1345.2 | 1331.9 | 1323.7 | 1325.8 |
| 7.5°   | 1383.9 | 1372.7 | 1371.7 | 1349.2 | 1323.7 | 1301.3 | 1274.7 | 1268.6 | 1256.4 | 1242.1 | 1235.9 |
| 10°    | 1339.0 | 1330.9 | 1315.6 | 1290.0 | 1257.4 | 1239.0 | 1203.3 | 1181.9 | 1178.8 | 1157.4 | 1149.2 |
| 12.5°  | 1293.1 | 1278.8 | 1263.5 | 1227.8 | 1191.0 | 1161.4 | 1134.9 | 1111.4 | 1095.1 | 1076.7 | 1064.5 |
| 15°    | 1240.0 | 1222.7 | 1205.3 | 1167.6 | 1124.7 | 1095.1 | 1055.3 | 1020.6 | 972.6  | 934.9  | 913.4  |
| 17.5°  | 1181.9 | 1162.5 | 1139.0 | 1097.1 | 1055.3 | 1014.5 | 941.0  | 900.2  | 866.5  | 844.0  | 830.8  |
| 20°    | 1121.6 | 1100.2 | 1076.7 | 1034.9 | 962.4  | 891.0  | 850.2  | 818.5  | 798.1  | 775.7  | 759.3  |
| 22.5°  | 1058.4 | 1035.9 | 1010.4 | 945.1  | 868.5  | 818.5  | 786.9  | 757.3  | 727.7  | 715.4  | 707.3  |
| 25°    | 999.2  | 978.8  | 946.1  | 857.3  | 797.1  | 751.2  | 715.4  | 696.0  | 680.7  | 664.4  | 649.1  |
| 27.5°  | 937.9  | 900.2  | 854.2  | 779.7  | 742.0  | 695.0  | 669.5  | 655.2  | 628.7  | 617.5  | 610.3  |
| 30°    | 864.4  | 822.6  | 778.7  | 725.6  | 681.8  | 649.1  | 625.6  | 602.2  | 586.8  | 575.6  | 563.4  |
| 32.5°  | 789.9  | 750.1  | 722.6  | 667.5  | 634.8  | 601.1  | 578.7  | 564.4  | 541.9  | 534.8  | 529.7  |
| 35°    | 725.6  | 692.0  | 667.5  | 622.6  | 591.9  | 561.3  | 545.0  | 523.6  | 509.3  | 496.0  | 487.8  |
| 37.5°  | 662.4  | 644.0  | 618.5  | 580.7  | 548.1  | 523.6  | 501.1  | 494.0  | 474.6  | 467.4  | 459.3  |
| 40°    | 618.5  | 590.9  | 569.5  | 536.8  | 509.3  | 482.7  | 468.5  | 452.1  | 438.9  | 427.6  | 424.6  |
| 42.5°  | 565.4  | 545.0  | 532.8  | 497.0  | 468.5  | 453.1  | 435.8  | 417.4  | 407.2  | 398.0  | 386.8  |
| 45°    | 525.6  | 507.2  | 489.9  | 461.3  | 435.8  | 416.4  | 401.1  | 388.8  | 371.5  | 367.4  | 350.1  |
| 47.5°  | 483.8  | 465.4  | 452.1  | 423.5  | 400.1  | 381.7  | 370.5  | 354.1  | 339.9  | 330.7  | 322.5  |
| 50°    | 441.9  | 426.6  | 414.4  | 389.9  | 369.5  | 350.1  | 334.8  | 318.4  | 312.3  | 297.0  | 291.9  |
| 52.5°  | 402.1  | 391.9  | 378.6  | 355.2  | 334.8  | 318.4  | 302.1  | 288.8  | 279.6  | 271.5  | 265.4  |
| 55°    | 368.4  | 352.1  | 346.0  | 320.5  | 303.1  | 285.8  | 271.5  | 263.3  | 252.1  | 247.0  | 241.9  |
| 57.5°  | 330.7  | 321.5  | 311.3  | 291.9  | 272.5  | 256.2  | 246.0  | 233.7  | 227.6  | 221.5  | 217.4  |
| 60°    | 298.0  | 284.7  | 276.6  | 260.3  | 242.9  | 227.6  | 218.4  | 209.2  | 201.1  | 196.0  | 187.8  |
| 62.5°  | 260.3  | 250.0  | 244.9  | 227.6  | 213.3  | 199.0  | 190.9  | 181.7  | 175.5  | 166.4  | 156.2  |
| 65°    | 227.6  | 219.4  | 213.3  | 199.0  | 185.7  | 172.5  | 164.3  | 153.1  | 144.9  | 139.8  | 138.8  |
| 67.5°  | 199.0  | 192.9  | 183.7  | 170.4  | 157.2  | 147.0  | 137.8  | 128.6  | 127.6  | 125.5  | 125.5  |
| 70°    | 167.4  | 161.3  | 156.2  | 141.9  | 130.6  | 119.4  | 117.4  | 114.3  | 111.2  | 110.2  | 108.2  |
| 72.5°  | 139.8  | 134.7  | 128.6  | 116.3  | 105.1  | 102.1  | 100.0  | 98.0   | 94.9   | 93.9   | 92.9   |
| 75°    | 113.3  | 106.1  | 102.1  | 90.8   | 87.8   | 85.7   | 83.7   | 80.6   | 78.6   | 77.6   | 75.5   |
| 77.5°  | 86.8   | 79.6   | 79.6   | 73.5   | 71.4   | 68.4   | 66.3   | 64.3   | 63.3   | 61.2   | 61.2   |
| 80°    | 61.2   | 61.2   | 59.2   | 56.1   | 53.1   | 52.1   | 49.0   | 48.0   | 46.9   | 48.0   | 45.9   |
| 82.5°  | 44.9   | 40.8   | 40.8   | 38.8   | 36.7   | 35.7   | 33.7   | 33.7   | 32.7   | 32.7   | 32.7   |
| 85°    | 25.5   | 25.5   | 24.5   | 22.5   | 21.4   | 21.4   | 20.4   | 20.4   | 19.4   | 19.4   | 18.4   |
| 87.5°  | 10.2   | 9.2    | 10.2   | 9.2    | 9.2    | 8.2    | 8.2    | 8.2    | 7.1    | 8.2    | 7.1    |
| 90°    | 5.6    | 6.2    | 6.7    | 7.6    | 8.5    | 9.5    | 10.4   | 11.0   | 11.6   | 12.1   | 12.7   |
| 92.5°  | 11.1   | 10.9   | 11.1   | 11.4   | 11.8   | 12.1   | 12.5   | 12.7   | 12.9   | 13.2   | 13.4   |
| 95°    | 18.5   | 16.6   | 17.0   | 17.8   | 18.7   | 19.5   | 20.3   | 20.9   | 21.5   | 22.0   | 22.6   |
| 97.5°  | 22.9   | 18.2   | 19.1   | 21.0   | 22.8   | 24.7   | 26.5   | 26.9   | 27.2   | 27.6   | 27.9   |
| 100°   | 28.7   | 20.8   | 21.8   | 23.7   | 25.7   | 27.6   | 29.6   | 30.5   | 31.5   | 32.4   | 33.3   |
| 102.5° | 125.4  | 125.3  | 114.8  | 93.8   | 72.7   | 51.7   | 30.7   | 32.0   | 33.2   | 34.5   | 35.8   |
| 105°   | 172.0  | 173.7  | 157.9  | 126.4  | 94.8   | 63.3   | 31.7   | 33.0   | 34.2   | 35.5   | 36.8   |
| 107.5° | 206.6  | 208.0  | 188.5  | 149.6  | 110.7  | 71.7   | 32.8   | 34.1   | 35.3   | 36.6   | 37.9   |
| 110°   | 240.1  | 241.3  | 224.6  | 191.2  | 157.8  | 124.4  | 91.0   | 79.4   | 67.9   | 56.3   | 44.8   |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 272.0 | 273.0  | 272.0 | 270.1 | 268.1 | 266.2 | 264.2 | 214.4 | 164.6 | 114.7 | 64.9  |
| 115°   | 306.8 | 307.8  | 309.2 | 312.1 | 315.0 | 317.9 | 320.8 | 267.3 | 213.8 | 160.3 | 106.8 |
| 117.5° | 338.9 | 340.1  | 341.1 | 343.0 | 345.0 | 346.9 | 348.9 | 332.4 | 315.9 | 299.4 | 282.9 |
| 120°   | 370.9 | 371.8  | 372.8 | 374.9 | 377.0 | 379.0 | 381.1 | 382.5 | 383.9 | 385.3 | 386.7 |
| 122.5° | 400.5 | 401.4  | 402.6 | 404.9 | 407.2 | 409.5 | 411.8 | 412.5 | 413.2 | 413.9 | 414.6 |
| 125°   | 428.7 | 429.5  | 430.6 | 432.8 | 435.0 | 437.2 | 439.4 | 440.2 | 441.0 | 441.8 | 442.6 |
| 127.5° | 456.3 | 457.1  | 458.0 | 459.7 | 461.4 | 463.2 | 464.9 | 466.1 | 467.2 | 468.4 | 469.5 |
| 130°   | 482.7 | 483.6  | 484.2 | 485.5 | 486.8 | 488.0 | 489.3 | 490.6 | 491.8 | 493.1 | 494.4 |
| 132.5° | 507.3 | 508.0  | 508.6 | 509.9 | 511.2 | 512.4 | 513.7 | 514.7 | 515.8 | 516.8 | 517.9 |
| 135°   | 530.5 | 531.4  | 531.9 | 533.0 | 534.0 | 535.1 | 536.1 | 537.3 | 538.4 | 539.6 | 540.7 |
| 137.5° | 551.5 | 552.2  | 552.8 | 553.9 | 555.1 | 556.2 | 557.4 | 558.6 | 559.7 | 560.9 | 562.0 |
| 140°   | 572.0 | 572.5  | 573.1 | 574.4 | 575.7 | 576.9 | 578.2 | 579.2 | 580.3 | 581.3 | 582.4 |
| 142.5° | 590.3 | 590.7  | 591.5 | 593.0 | 594.5 | 596.0 | 597.5 | 598.4 | 599.3 | 600.2 | 601.1 |
| 145°   | 606.4 | 606.3  | 607.3 | 609.2 | 611.2 | 613.1 | 615.1 | 615.9 | 616.7 | 617.6 | 618.4 |
| 147.5° | 622.6 | 622.4  | 623.4 | 625.4 | 627.3 | 629.3 | 631.3 | 631.9 | 632.5 | 633.0 | 633.6 |
| 150°   | 637.4 | 637.0  | 637.9 | 639.8 | 641.6 | 643.5 | 645.3 | 646.0 | 646.7 | 647.4 | 648.1 |
| 152.5° | 651.0 | 650.5  | 651.4 | 653.1 | 654.8 | 656.6 | 658.3 | 659.0 | 659.7 | 660.4 | 661.1 |
| 155°   | 664.0 | 663.5  | 664.2 | 665.6 | 666.9 | 668.3 | 669.7 | 670.4 | 671.1 | 671.8 | 672.5 |
| 157.5° | 675.4 | 674.9  | 675.4 | 676.5 | 677.5 | 678.6 | 679.6 | 680.4 | 681.2 | 682.1 | 682.9 |
| 160°   | 685.7 | 685.3  | 685.7 | 686.4 | 687.1 | 687.8 | 688.5 | 689.2 | 689.9 | 690.6 | 691.3 |
| 162.5° | 694.0 | 693.7  | 694.0 | 694.6 | 695.1 | 695.7 | 696.3 | 697.1 | 697.9 | 698.7 | 699.5 |
| 165°   | 701.3 | 700.9  | 701.1 | 701.4 | 701.8 | 702.1 | 702.5 | 703.3 | 704.1 | 704.9 | 705.7 |
| 167.5° | 707.0 | 706.7  | 706.9 | 707.2 | 707.5 | 707.9 | 708.2 | 709.0 | 709.8 | 710.7 | 711.5 |
| 170°   | 711.7 | 711.3  | 711.4 | 711.7 | 711.9 | 712.2 | 712.4 | 713.2 | 714.0 | 714.8 | 715.6 |
| 172.5° | 714.8 | 714.5  | 714.6 | 714.8 | 715.1 | 715.3 | 715.5 | 716.3 | 717.1 | 717.9 | 718.7 |
| 175°   | 716.9 | 716.5  | 716.6 | 716.9 | 717.1 | 717.4 | 717.6 | 718.4 | 719.2 | 720.0 | 720.8 |
| 177.5° | 718.0 | 717.6  | 717.7 | 717.8 | 717.9 | 718.0 | 718.1 | 718.9 | 719.7 | 720.5 | 721.3 |
| 180°   | 718.6 | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1405.4 | 1403.3 | 1397.2 | 1399.2 | 1396.2 | 1396.2 | 1394.1 | 1394.1 | 1394.1 | 1399.2 | 1396.2 |
| 5°     | 1328.8 | 1321.7 | 1314.5 | 1311.5 | 1308.4 | 1305.3 | 1305.3 | 1304.3 | 1313.5 | 1311.5 | 1319.6 |
| 7.5°   | 1233.9 | 1231.9 | 1217.6 | 1217.6 | 1212.5 | 1210.4 | 1215.5 | 1216.6 | 1217.6 | 1219.6 | 1224.7 |
| 10°    | 1149.2 | 1144.1 | 1123.7 | 1125.7 | 1122.7 | 1118.6 | 1121.6 | 1119.6 | 1126.7 | 1128.8 | 1126.7 |
| 12.5°  | 1049.2 | 1040.0 | 1017.5 | 1006.3 | 994.1  | 984.9  | 996.1  | 987.9  | 1016.5 | 1024.7 | 1047.1 |
| 15°    | 916.5  | 899.1  | 883.8  | 883.8  | 872.6  | 864.4  | 869.6  | 878.7  | 884.9  | 894.0  | 898.1  |
| 17.5°  | 827.7  | 820.6  | 808.3  | 801.2  | 798.1  | 795.0  | 795.0  | 799.1  | 812.4  | 811.4  | 819.5  |
| 20°    | 752.2  | 748.1  | 742.0  | 732.8  | 729.7  | 727.7  | 727.7  | 727.7  | 736.9  | 745.0  | 750.1  |
| 22.5°  | 700.1  | 697.1  | 693.0  | 680.7  | 674.6  | 672.6  | 677.7  | 680.7  | 687.9  | 694.0  | 699.1  |
| 25°    | 648.1  | 640.9  | 633.8  | 629.7  | 626.6  | 626.6  | 628.7  | 629.7  | 632.8  | 635.8  | 642.0  |
| 27.5°  | 605.2  | 600.1  | 589.9  | 578.7  | 578.7  | 575.6  | 577.7  | 579.7  | 586.8  | 597.1  | 602.2  |
| 30°    | 557.2  | 556.2  | 552.1  | 548.1  | 544.0  | 541.9  | 546.0  | 549.1  | 550.1  | 555.2  | 555.2  |
| 32.5°  | 522.5  | 515.4  | 508.3  | 504.2  | 502.1  | 501.1  | 502.1  | 506.2  | 506.2  | 512.3  | 519.5  |
| 35°    | 487.8  | 483.8  | 476.6  | 469.5  | 467.4  | 462.3  | 466.4  | 470.5  | 477.6  | 480.7  | 483.8  |
| 37.5°  | 450.1  | 445.0  | 441.9  | 439.9  | 435.8  | 436.8  | 433.8  | 439.9  | 446.0  | 445.0  | 447.0  |
| 40°    | 421.5  | 412.3  | 403.1  | 402.1  | 401.1  | 400.1  | 400.1  | 401.1  | 405.2  | 409.3  | 415.4  |
| 42.5°  | 384.8  | 381.7  | 373.5  | 365.4  | 363.3  | 361.3  | 359.3  | 363.3  | 371.5  | 378.6  | 381.7  |
| 45°    | 347.0  | 342.9  | 340.9  | 334.8  | 330.7  | 329.7  | 327.6  | 332.7  | 339.9  | 342.9  | 345.0  |
| 47.5°  | 312.3  | 311.3  | 305.2  | 306.2  | 303.1  | 304.1  | 303.1  | 306.2  | 306.2  | 309.2  | 311.3  |
| 50°    | 288.8  | 285.8  | 282.7  | 280.7  | 277.6  | 277.6  | 276.6  | 277.6  | 281.7  | 285.8  | 284.7  |
| 52.5°  | 265.4  | 260.3  | 259.2  | 258.2  | 256.2  | 258.2  | 255.2  | 256.2  | 260.3  | 262.3  | 261.3  |
| 55°    | 237.8  | 236.8  | 234.7  | 232.7  | 231.7  | 230.7  | 230.7  | 230.7  | 234.7  | 237.8  | 238.8  |
| 57.5°  | 216.4  | 211.3  | 207.2  | 207.2  | 203.1  | 202.1  | 204.1  | 205.1  | 208.2  | 210.2  | 212.3  |
| 60°    | 186.8  | 184.7  | 178.6  | 175.5  | 169.4  | 168.4  | 168.4  | 172.5  | 177.6  | 184.7  | 186.8  |
| 62.5°  | 155.1  | 152.1  | 151.0  | 151.0  | 151.0  | 151.0  | 151.0  | 151.0  | 151.0  | 152.1  | 152.1  |
| 65°    | 137.8  | 138.8  | 137.8  | 136.8  | 137.8  | 137.8  | 136.8  | 136.8  | 136.8  | 137.8  | 138.8  |
| 67.5°  | 123.5  | 122.5  | 123.5  | 122.5  | 121.5  | 121.5  | 120.4  | 121.5  | 122.5  | 123.5  | 123.5  |
| 70°    | 107.2  | 107.2  | 106.1  | 107.2  | 106.1  | 105.1  | 104.1  | 104.1  | 106.1  | 107.2  | 107.2  |
| 72.5°  | 91.9   | 91.9   | 90.8   | 90.8   | 88.8   | 88.8   | 89.8   | 88.8   | 88.8   | 91.9   | 91.9   |
| 75°    | 76.5   | 75.5   | 74.5   | 74.5   | 73.5   | 73.5   | 73.5   | 72.5   | 74.5   | 74.5   | 75.5   |
| 77.5°  | 60.2   | 60.2   | 60.2   | 59.2   | 59.2   | 58.2   | 58.2   | 59.2   | 59.2   | 59.2   | 60.2   |
| 80°    | 45.9   | 45.9   | 45.9   | 44.9   | 43.9   | 43.9   | 43.9   | 43.9   | 43.9   | 44.9   | 43.9   |
| 82.5°  | 31.6   | 31.6   | 31.6   | 31.6   | 31.6   | 30.6   | 30.6   | 30.6   | 31.6   | 31.6   | 30.6   |
| 85°    | 19.4   | 18.4   | 19.4   | 19.4   | 18.4   | 19.4   | 18.4   | 18.4   | 17.4   | 17.4   | 18.4   |
| 87.5°  | 8.2    | 7.1    | 6.1    | 6.1    | 7.1    | 6.1    | 6.1    | 6.1    | 7.1    | 6.1    | 6.1    |
| 90°    | 13.0   | 13.1   | 13.3   | 13.6   | 13.8   | 14.0   | 13.8   | 13.6   | 13.3   | 13.1   | 13.0   |
| 92.5°  | 13.5   | 13.6   | 13.7   | 13.8   | 13.9   | 14.0   | 13.9   | 13.8   | 13.7   | 13.6   | 13.5   |
| 95°    | 22.9   | 22.8   | 22.7   | 22.6   | 22.5   | 22.4   | 22.5   | 22.6   | 22.7   | 22.8   | 22.9   |
| 97.5°  | 28.1   | 28.2   | 28.3   | 28.4   | 28.5   | 28.6   | 28.5   | 28.4   | 28.3   | 28.2   | 28.1   |
| 100°   | 33.8   | 33.9   | 34.1   | 34.4   | 34.6   | 34.8   | 34.6   | 34.4   | 34.1   | 33.9   | 33.8   |
| 102.5° | 36.4   | 36.6   | 36.9   | 37.3   | 37.6   | 38.0   | 37.6   | 37.3   | 36.9   | 36.6   | 36.4   |
| 105°   | 37.4   | 37.6   | 38.1   | 38.6   | 39.0   | 39.5   | 39.0   | 38.6   | 38.1   | 37.6   | 37.4   |
| 107.5° | 38.5   | 38.7   | 39.2   | 39.7   | 40.1   | 40.6   | 40.1   | 39.7   | 39.2   | 38.7   | 38.5   |
| 110°   | 39.0   | 39.2   | 39.7   | 40.2   | 40.6   | 41.1   | 40.6   | 40.2   | 39.7   | 39.2   | 39.0   |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 40.0   | 40.2  | 40.5  | 40.9  | 41.2  | 41.6  | 41.2  | 40.9  | 40.5  | 40.2  | 40.0   |
| 115°   | 80.1   | 75.9  | 67.6  | 59.3  | 50.9  | 42.6  | 50.9  | 59.3  | 67.6  | 75.9  | 80.1   |
| 117.5° | 274.6  | 259.5 | 229.2 | 198.9 | 168.6 | 138.3 | 168.6 | 198.9 | 229.2 | 259.5 | 274.6  |
| 120°   | 387.4  | 379.6 | 364.0 | 348.4 | 332.8 | 317.2 | 332.8 | 348.4 | 364.0 | 379.6 | 387.4  |
| 122.5° | 414.9  | 415.0 | 415.1 | 415.2 | 415.4 | 415.5 | 415.4 | 415.2 | 415.1 | 415.0 | 414.9  |
| 125°   | 443.0  | 443.2 | 443.5 | 443.9 | 444.2 | 444.6 | 444.2 | 443.9 | 443.5 | 443.2 | 443.0  |
| 127.5° | 470.1  | 470.2 | 470.3 | 470.4 | 470.5 | 470.6 | 470.5 | 470.4 | 470.3 | 470.2 | 470.1  |
| 130°   | 495.0  | 494.9 | 494.8 | 494.7 | 494.6 | 494.5 | 494.6 | 494.7 | 494.8 | 494.9 | 495.0  |
| 132.5° | 518.4  | 518.3 | 518.2 | 518.1 | 518.0 | 517.9 | 518.0 | 518.1 | 518.2 | 518.3 | 518.4  |
| 135°   | 541.3  | 541.2 | 541.0 | 540.7 | 540.5 | 540.3 | 540.5 | 540.7 | 541.0 | 541.2 | 541.3  |
| 137.5° | 562.6  | 562.4 | 562.1 | 561.8 | 561.4 | 561.1 | 561.4 | 561.8 | 562.1 | 562.4 | 562.6  |
| 140°   | 582.9  | 582.6 | 582.0 | 581.5 | 580.9 | 580.3 | 580.9 | 581.5 | 582.0 | 582.6 | 582.9  |
| 142.5° | 601.6  | 601.3 | 600.7 | 600.2 | 599.6 | 599.0 | 599.6 | 600.2 | 600.7 | 601.3 | 601.6  |
| 145°   | 618.8  | 618.5 | 617.9 | 617.4 | 616.8 | 616.2 | 616.8 | 617.4 | 617.9 | 618.5 | 618.8  |
| 147.5° | 633.9  | 633.7 | 633.2 | 632.7 | 632.3 | 631.8 | 632.3 | 632.7 | 633.2 | 633.7 | 633.9  |
| 150°   | 648.4  | 648.1 | 647.5 | 647.0 | 646.4 | 645.8 | 646.4 | 647.0 | 647.5 | 648.1 | 648.4  |
| 152.5° | 661.4  | 661.0 | 660.2 | 659.4 | 658.6 | 657.8 | 658.6 | 659.4 | 660.2 | 661.0 | 661.4  |
| 155°   | 672.9  | 672.4 | 671.5 | 670.6 | 669.6 | 668.7 | 669.6 | 670.6 | 671.5 | 672.4 | 672.9  |
| 157.5° | 683.3  | 682.8 | 681.9 | 681.0 | 680.0 | 679.1 | 680.0 | 681.0 | 681.9 | 682.8 | 683.3  |
| 160°   | 691.6  | 691.2 | 690.4 | 689.5 | 688.7 | 687.9 | 688.7 | 689.5 | 690.4 | 691.2 | 691.6  |
| 162.5° | 699.9  | 699.4 | 698.3 | 697.3 | 696.2 | 695.2 | 696.2 | 697.3 | 698.3 | 699.4 | 699.9  |
| 165°   | 706.1  | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 703.3 | 704.1 | 704.9 | 705.7 | 706.1  |
| 167.5° | 711.9  | 711.4 | 710.3 | 709.3 | 708.2 | 707.2 | 708.2 | 709.3 | 710.3 | 711.4 | 711.9  |
| 170°   | 716.0  | 715.5 | 714.4 | 713.4 | 712.3 | 711.3 | 712.3 | 713.4 | 714.4 | 715.5 | 716.0  |
| 172.5° | 719.1  | 718.6 | 717.6 | 716.5 | 715.5 | 714.5 | 715.5 | 716.5 | 717.6 | 718.6 | 719.1  |
| 175°   | 721.2  | 720.6 | 719.5 | 718.3 | 717.2 | 716.0 | 717.2 | 718.3 | 719.5 | 720.6 | 721.2  |
| 177.5° | 721.7  | 721.2 | 720.2 | 719.1 | 718.1 | 717.1 | 718.1 | 719.1 | 720.2 | 721.2 | 721.7  |
| 180°   | 718.6  | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6  |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1399.2 | 1404.3 | 1402.3 | 1391.1 | 1402.3 | 1405.4 | 1411.5 | 1417.6 | 1421.7 | 1427.8 | 1432.9 |
| 5°     | 1311.5 | 1321.7 | 1327.8 | 1321.7 | 1342.1 | 1345.2 | 1359.4 | 1367.6 | 1379.9 | 1390.1 | 1398.2 |
| 7.5°   | 1228.8 | 1237.0 | 1249.2 | 1251.3 | 1263.5 | 1277.8 | 1298.2 | 1318.6 | 1338.0 | 1348.2 | 1357.4 |
| 10°    | 1140.0 | 1154.3 | 1172.7 | 1168.6 | 1187.0 | 1209.4 | 1230.8 | 1263.5 | 1279.8 | 1298.2 | 1314.5 |
| 12.5°  | 1051.2 | 1060.4 | 1084.9 | 1093.1 | 1119.6 | 1136.9 | 1166.5 | 1187.0 | 1227.8 | 1249.2 | 1263.5 |
| 15°    | 896.1  | 933.8  | 964.5  | 1001.2 | 1035.9 | 1068.6 | 1095.1 | 1131.8 | 1167.6 | 1183.9 | 1207.4 |
| 17.5°  | 825.7  | 843.0  | 861.4  | 879.8  | 924.7  | 982.8  | 1029.8 | 1069.6 | 1100.2 | 1121.6 | 1149.2 |
| 20°    | 752.2  | 769.5  | 789.9  | 807.3  | 834.9  | 876.7  | 934.9  | 1003.3 | 1040.0 | 1062.4 | 1089.0 |
| 22.5°  | 700.1  | 716.5  | 729.7  | 745.0  | 766.5  | 797.1  | 841.0  | 925.7  | 974.7  | 1002.2 | 1025.7 |
| 25°    | 644.0  | 664.4  | 678.7  | 689.9  | 707.3  | 741.0  | 776.7  | 824.6  | 912.4  | 933.8  | 966.5  |
| 27.5°  | 605.2  | 611.3  | 627.7  | 645.0  | 662.4  | 680.7  | 717.5  | 758.3  | 817.5  | 864.4  | 904.3  |
| 30°    | 559.3  | 574.6  | 589.9  | 597.1  | 612.4  | 638.9  | 661.3  | 705.2  | 751.2  | 787.9  | 835.9  |
| 32.5°  | 524.6  | 533.8  | 544.0  | 561.3  | 575.6  | 594.0  | 616.4  | 653.2  | 692.0  | 715.4  | 752.2  |
| 35°    | 485.8  | 491.9  | 513.4  | 520.5  | 534.8  | 553.2  | 575.6  | 604.2  | 646.0  | 664.4  | 690.9  |
| 37.5°  | 449.1  | 463.4  | 469.5  | 485.8  | 499.1  | 517.4  | 533.8  | 566.4  | 594.0  | 615.4  | 639.9  |
| 40°    | 420.5  | 426.6  | 437.8  | 452.1  | 463.4  | 477.6  | 498.1  | 521.5  | 551.1  | 568.5  | 589.9  |
| 42.5°  | 385.8  | 390.9  | 405.2  | 413.3  | 431.7  | 445.0  | 457.2  | 485.8  | 512.3  | 525.6  | 547.0  |
| 45°    | 348.0  | 360.3  | 369.5  | 385.8  | 396.0  | 412.3  | 427.6  | 448.0  | 472.5  | 487.8  | 500.1  |
| 47.5°  | 315.4  | 327.6  | 336.8  | 352.1  | 368.4  | 375.6  | 391.9  | 413.3  | 435.8  | 448.0  | 465.4  |
| 50°    | 288.8  | 292.9  | 310.3  | 317.4  | 334.8  | 349.0  | 360.3  | 378.6  | 403.1  | 410.3  | 424.6  |
| 52.5°  | 263.3  | 266.4  | 277.6  | 286.8  | 302.1  | 314.3  | 328.6  | 346.0  | 366.4  | 377.6  | 388.8  |
| 55°    | 240.9  | 242.9  | 248.0  | 258.2  | 268.4  | 283.7  | 297.0  | 313.3  | 330.7  | 342.9  | 353.1  |
| 57.5°  | 215.3  | 219.4  | 223.5  | 229.6  | 239.8  | 254.1  | 268.4  | 283.7  | 298.0  | 306.2  | 319.4  |
| 60°    | 185.7  | 191.9  | 199.0  | 206.2  | 213.3  | 223.5  | 239.8  | 254.1  | 267.4  | 274.5  | 284.7  |
| 62.5°  | 154.1  | 166.4  | 172.5  | 180.6  | 186.8  | 196.0  | 208.2  | 224.5  | 233.7  | 242.9  | 251.1  |
| 65°    | 138.8  | 139.8  | 140.8  | 149.0  | 160.2  | 169.4  | 180.6  | 192.9  | 207.2  | 213.3  | 219.4  |
| 67.5°  | 123.5  | 124.5  | 126.6  | 127.6  | 131.7  | 141.9  | 154.1  | 167.4  | 178.6  | 182.7  | 188.8  |
| 70°    | 108.2  | 108.2  | 112.3  | 113.3  | 114.3  | 115.3  | 125.5  | 138.8  | 149.0  | 154.1  | 161.3  |
| 72.5°  | 91.9   | 92.9   | 94.9   | 95.9   | 98.0   | 100.0  | 103.1  | 110.2  | 122.5  | 127.6  | 135.7  |
| 75°    | 75.5   | 76.5   | 77.6   | 78.6   | 81.6   | 82.7   | 85.7   | 89.8   | 94.9   | 101.0  | 106.1  |
| 77.5°  | 60.2   | 60.2   | 61.2   | 63.3   | 65.3   | 66.3   | 69.4   | 71.4   | 73.5   | 76.5   | 80.6   |
| 80°    | 44.9   | 45.9   | 45.9   | 48.0   | 48.0   | 49.0   | 50.0   | 53.1   | 55.1   | 57.2   | 59.2   |
| 82.5°  | 30.6   | 32.7   | 32.7   | 32.7   | 33.7   | 34.7   | 35.7   | 35.7   | 37.8   | 38.8   | 41.8   |
| 85°    | 18.4   | 19.4   | 19.4   | 19.4   | 18.4   | 20.4   | 20.4   | 21.4   | 21.4   | 21.4   | 22.5   |
| 87.5°  | 7.1    | 6.1    | 7.1    | 7.1    | 7.1    | 8.2    | 7.1    | 7.1    | 8.2    | 9.2    | 9.2    |
| 90°    | 12.7   | 12.1   | 11.6   | 11.0   | 10.4   | 9.5    | 8.5    | 7.6    | 6.7    | 6.2    | 5.6    |
| 92.5°  | 13.4   | 13.2   | 12.9   | 12.7   | 12.5   | 12.1   | 11.8   | 11.4   | 11.1   | 10.9   | 11.1   |
| 95°    | 22.6   | 22.0   | 21.5   | 20.9   | 20.3   | 19.5   | 18.7   | 17.8   | 17.0   | 16.6   | 18.5   |
| 97.5°  | 27.9   | 27.6   | 27.2   | 26.9   | 26.5   | 24.7   | 22.8   | 21.0   | 19.1   | 18.2   | 22.9   |
| 100°   | 33.3   | 32.4   | 31.5   | 30.5   | 29.6   | 27.6   | 25.7   | 23.7   | 21.8   | 20.8   | 28.7   |
| 102.5° | 35.8   | 34.5   | 33.2   | 32.0   | 30.7   | 51.7   | 72.7   | 93.8   | 114.8  | 125.3  | 125.4  |
| 105°   | 36.8   | 35.5   | 34.2   | 33.0   | 31.7   | 63.3   | 94.8   | 126.4  | 157.9  | 173.7  | 172.0  |
| 107.5° | 37.9   | 36.6   | 35.3   | 34.1   | 32.8   | 71.7   | 110.7  | 149.6  | 188.5  | 208.0  | 206.6  |
| 110°   | 44.8   | 56.3   | 67.9   | 79.4   | 91.0   | 124.4  | 157.8  | 191.2  | 224.6  | 241.3  | 240.1  |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 64.9  | 114.7 | 164.6 | 214.4 | 264.2 | 266.2 | 268.1 | 270.1 | 272.0 | 273.0  | 272.0 |
| 115°   | 106.8 | 160.3 | 213.8 | 267.3 | 320.8 | 317.9 | 315.0 | 312.1 | 309.2 | 307.8  | 306.8 |
| 117.5° | 282.9 | 299.4 | 315.9 | 332.4 | 348.9 | 346.9 | 345.0 | 343.0 | 341.1 | 340.1  | 338.9 |
| 120°   | 386.7 | 385.3 | 383.9 | 382.5 | 381.1 | 379.0 | 377.0 | 374.9 | 372.8 | 371.8  | 370.9 |
| 122.5° | 414.6 | 413.9 | 413.2 | 412.5 | 411.8 | 409.5 | 407.2 | 404.9 | 402.6 | 401.4  | 400.5 |
| 125°   | 442.6 | 441.8 | 441.0 | 440.2 | 439.4 | 437.2 | 435.0 | 432.8 | 430.6 | 429.5  | 428.7 |
| 127.5° | 469.5 | 468.4 | 467.2 | 466.1 | 464.9 | 463.2 | 461.4 | 459.7 | 458.0 | 457.1  | 456.3 |
| 130°   | 494.4 | 493.1 | 491.8 | 490.6 | 489.3 | 488.0 | 486.8 | 485.5 | 484.2 | 483.6  | 482.7 |
| 132.5° | 517.9 | 516.8 | 515.8 | 514.7 | 513.7 | 512.4 | 511.2 | 509.9 | 508.6 | 508.0  | 507.3 |
| 135°   | 540.7 | 539.6 | 538.4 | 537.3 | 536.1 | 535.1 | 534.0 | 533.0 | 531.9 | 531.4  | 530.5 |
| 137.5° | 562.0 | 560.9 | 559.7 | 558.6 | 557.4 | 556.2 | 555.1 | 553.9 | 552.8 | 552.2  | 551.5 |
| 140°   | 582.4 | 581.3 | 580.3 | 579.2 | 578.2 | 576.9 | 575.7 | 574.4 | 573.1 | 572.5  | 572.0 |
| 142.5° | 601.1 | 600.2 | 599.3 | 598.4 | 597.5 | 596.0 | 594.5 | 593.0 | 591.5 | 590.7  | 590.3 |
| 145°   | 618.4 | 617.6 | 616.7 | 615.9 | 615.1 | 613.1 | 611.2 | 609.2 | 607.3 | 606.3  | 606.4 |
| 147.5° | 633.6 | 633.0 | 632.5 | 631.9 | 631.3 | 629.3 | 627.3 | 625.4 | 623.4 | 622.4  | 622.6 |
| 150°   | 648.1 | 647.4 | 646.7 | 646.0 | 645.3 | 643.5 | 641.6 | 639.8 | 637.9 | 637.0  | 637.4 |
| 152.5° | 661.1 | 660.4 | 659.7 | 659.0 | 658.3 | 656.6 | 654.8 | 653.1 | 651.4 | 650.5  | 651.0 |
| 155°   | 672.5 | 671.8 | 671.1 | 670.4 | 669.7 | 668.3 | 666.9 | 665.6 | 664.2 | 663.5  | 664.0 |
| 157.5° | 682.9 | 682.1 | 681.2 | 680.4 | 679.6 | 678.6 | 677.5 | 676.5 | 675.4 | 674.9  | 675.4 |
| 160°   | 691.3 | 690.6 | 689.9 | 689.2 | 688.5 | 687.8 | 687.1 | 686.4 | 685.7 | 685.3  | 685.7 |
| 162.5° | 699.5 | 698.7 | 697.9 | 697.1 | 696.3 | 695.7 | 695.1 | 694.6 | 694.0 | 693.7  | 694.0 |
| 165°   | 705.7 | 704.9 | 704.1 | 703.3 | 702.5 | 702.1 | 701.8 | 701.4 | 701.1 | 700.9  | 701.3 |
| 167.5° | 711.5 | 710.7 | 709.8 | 709.0 | 708.2 | 707.9 | 707.5 | 707.2 | 706.9 | 706.7  | 707.0 |
| 170°   | 715.6 | 714.8 | 714.0 | 713.2 | 712.4 | 712.2 | 711.9 | 711.7 | 711.4 | 711.3  | 711.7 |
| 172.5° | 718.7 | 717.9 | 717.1 | 716.3 | 715.5 | 715.3 | 715.1 | 714.8 | 714.6 | 714.5  | 714.8 |
| 175°   | 720.8 | 720.0 | 719.2 | 718.4 | 717.6 | 717.4 | 717.1 | 716.9 | 716.6 | 716.5  | 716.9 |
| 177.5° | 721.3 | 720.5 | 719.7 | 718.9 | 718.1 | 718.0 | 717.9 | 717.8 | 717.7 | 717.6  | 718.0 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6  | 718.6 |

TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1468.6 | 1468.6 | 1468.6 | 1468.6 |
| 2.5°   | 1442.1 | 1439.0 | 1457.4 | 1477.8 |
| 5°     | 1412.5 | 1417.6 | 1441.1 | 1469.7 |
| 7.5°   | 1381.9 | 1393.1 | 1420.7 | 1458.4 |
| 10°    | 1339.0 | 1359.4 | 1401.3 | 1440.1 |
| 12.5°  | 1297.2 | 1324.7 | 1364.5 | 1410.5 |
| 15°    | 1250.2 | 1280.9 | 1329.8 | 1385.0 |
| 17.5°  | 1198.2 | 1232.9 | 1290.0 | 1350.3 |
| 20°    | 1143.1 | 1189.0 | 1249.2 | 1314.5 |
| 22.5°  | 1081.8 | 1136.9 | 1199.2 | 1271.7 |
| 25°    | 1022.6 | 1082.9 | 1145.1 | 1228.8 |
| 27.5°  | 964.5  | 1023.7 | 1093.1 | 1177.8 |
| 30°    | 906.3  | 960.4  | 1034.9 | 1125.7 |
| 32.5°  | 844.0  | 900.2  | 978.8  | 1071.6 |
| 35°    | 786.9  | 843.0  | 916.5  | 1008.4 |
| 37.5°  | 725.6  | 785.9  | 856.3  | 951.2  |
| 40°    | 654.2  | 724.6  | 793.0  | 883.8  |
| 42.5°  | 595.0  | 669.5  | 735.9  | 821.6  |
| 45°    | 548.1  | 618.5  | 673.6  | 757.3  |
| 47.5°  | 504.2  | 561.3  | 617.5  | 695.0  |
| 50°    | 462.3  | 506.2  | 564.4  | 633.8  |
| 52.5°  | 419.5  | 457.2  | 507.2  | 572.6  |
| 55°    | 380.7  | 416.4  | 461.3  | 511.3  |
| 57.5°  | 345.0  | 370.5  | 415.4  | 460.3  |
| 60°    | 305.2  | 331.7  | 366.4  | 404.2  |
| 62.5°  | 271.5  | 291.9  | 324.6  | 356.2  |
| 65°    | 235.8  | 255.2  | 279.6  | 309.2  |
| 67.5°  | 203.1  | 220.4  | 239.8  | 263.3  |
| 70°    | 173.5  | 186.8  | 201.1  | 221.5  |
| 72.5°  | 141.9  | 156.2  | 169.4  | 185.7  |
| 75°    | 116.3  | 122.5  | 133.7  | 144.9  |
| 77.5°  | 89.8   | 98.0   | 104.1  | 113.3  |
| 80°    | 64.3   | 71.4   | 73.5   | 80.6   |
| 82.5°  | 42.9   | 46.9   | 51.0   | 53.1   |
| 85°    | 24.5   | 26.5   | 30.6   | 31.6   |
| 87.5°  | 9.2    | 10.2   | 12.2   | 14.3   |
| 90°    | 4.3    | 3.0    | 1.8    | 0.5    |
| 92.5°  | 11.6   | 12.1   | 12.5   | 13.0   |
| 95°    | 22.3   | 26.2   | 30.0   | 33.8   |
| 97.5°  | 32.4   | 41.9   | 51.3   | 60.8   |
| 100°   | 44.5   | 60.4   | 76.2   | 92.0   |
| 102.5° | 125.7  | 125.9  | 126.2  | 126.4  |
| 105°   | 168.5  | 165.0  | 161.6  | 158.1  |
| 107.5° | 203.7  | 200.8  | 197.9  | 195.0  |
| 110°   | 237.7  | 235.2  | 232.8  | 230.4  |



TEST NUMBER: P999950

CATALOG NUMBER: SA2XXRDIP-B675D530UB2750-4F0-XX-W2A-A\_4000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 269.9 | 267.8 | 265.7 | 263.6 |
| 115°   | 304.9 | 302.9 | 301.0 | 299.0 |
| 117.5° | 336.6 | 334.3 | 332.0 | 329.7 |
| 120°   | 369.2 | 367.5 | 365.7 | 364.0 |
| 122.5° | 398.6 | 396.8 | 394.9 | 393.1 |
| 125°   | 427.2 | 425.7 | 424.2 | 422.7 |
| 127.5° | 454.7 | 453.0 | 451.4 | 449.8 |
| 130°   | 480.8 | 479.0 | 477.1 | 475.3 |
| 132.5° | 505.8 | 504.3 | 502.8 | 501.3 |
| 135°   | 528.6 | 526.8 | 524.9 | 523.1 |
| 137.5° | 550.1 | 548.8 | 547.4 | 546.0 |
| 140°   | 571.1 | 570.2 | 569.2 | 568.3 |
| 142.5° | 589.5 | 588.7 | 587.9 | 587.1 |
| 145°   | 606.5 | 606.6 | 606.7 | 606.8 |
| 147.5° | 622.9 | 623.3 | 623.6 | 624.0 |
| 150°   | 638.2 | 639.0 | 639.8 | 640.6 |
| 152.5° | 651.9 | 652.8 | 653.8 | 654.7 |
| 155°   | 665.1 | 666.1 | 667.2 | 668.2 |
| 157.5° | 676.3 | 677.2 | 678.2 | 679.1 |
| 160°   | 686.4 | 687.1 | 687.8 | 688.5 |
| 162.5° | 694.7 | 695.4 | 696.1 | 696.8 |
| 165°   | 702.0 | 702.7 | 703.4 | 704.1 |
| 167.5° | 707.7 | 708.4 | 709.1 | 709.8 |
| 170°   | 712.4 | 713.1 | 713.8 | 714.5 |
| 172.5° | 715.5 | 716.2 | 716.9 | 717.6 |
| 175°   | 717.7 | 718.6 | 719.4 | 720.2 |
| 177.5° | 718.8 | 719.6 | 720.4 | 721.2 |
| 180°   | 718.6 | 718.6 | 718.6 | 718.6 |

(END OF REPORT)