

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P998742

Luminaire Tested: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P998742  
REPORT IS A COMBINATION OF REPORTS P984488 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K  
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

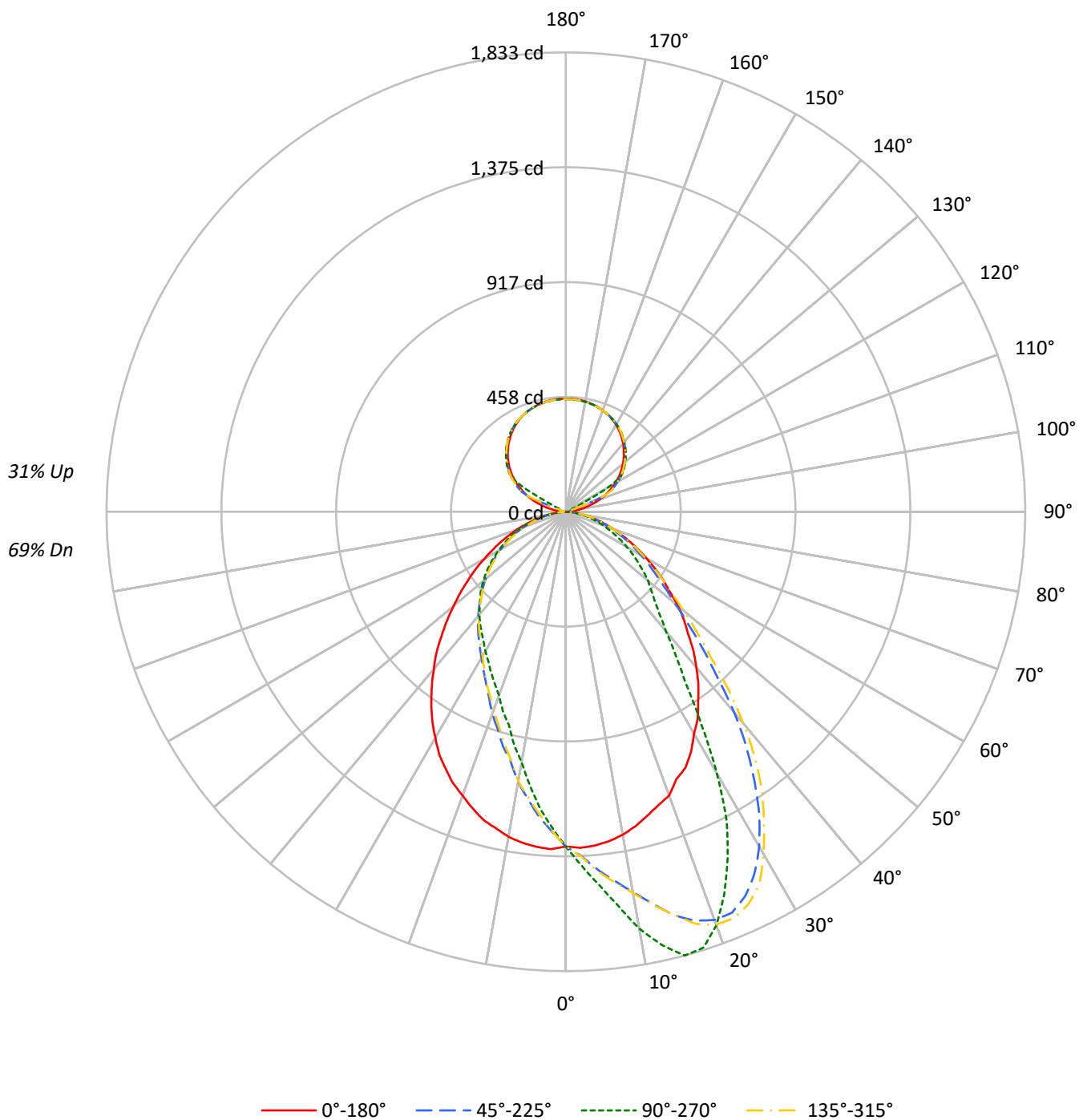
Lumens per Lamp: N/A  
Luminaire Lumens: 4265.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 45.2  
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: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P998742

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 |    |    |
| 1   | 103 | 99  | 95  | 91  | 97  | 93  | 90  | 87  | 83 | 81 | 79 | 74 | 73 | 71 | 66 | 65 | 64 | 60 |    |    |
| 2   | 94  | 87  | 81  | 76  | 89  | 82  | 77  | 73  | 74 | 70 | 66 | 66 | 63 | 60 | 59 | 57 | 55 | 51 |    |    |
| 3   | 86  | 77  | 70  | 64  | 81  | 73  | 67  | 62  | 66 | 61 | 57 | 59 | 55 | 52 | 53 | 50 | 47 | 44 |    |    |
| 4   | 79  | 69  | 61  | 55  | 75  | 65  | 58  | 53  | 59 | 53 | 49 | 53 | 49 | 45 | 48 | 44 | 41 | 38 |    |    |
| 5   | 73  | 62  | 54  | 48  | 69  | 59  | 51  | 46  | 53 | 47 | 43 | 48 | 43 | 40 | 43 | 40 | 36 | 34 |    |    |
| 6   | 68  | 56  | 48  | 42  | 64  | 53  | 46  | 40  | 48 | 42 | 38 | 44 | 39 | 35 | 40 | 36 | 32 | 30 |    |    |
| 7   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 36  | 44 | 38 | 34 | 40 | 35 | 31 | 36 | 32 | 29 | 27 |    |    |
| 8   | 59  | 46  | 39  | 33  | 55  | 44  | 37  | 32  | 41 | 35 | 30 | 37 | 32 | 28 | 34 | 29 | 26 | 24 |    |    |
| 9   | 55  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 27 | 34 | 29 | 26 | 31 | 27 | 24 | 22 |    |    |
| 10  | 51  | 39  | 32  | 27  | 49  | 38  | 31  | 26  | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 | 20 |    |    |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 21137 | 21137 | 21137 | 21137 |
| 5°  | 21187 | 22537 | 21268 | 17929 |
| 10° | 20941 | 24603 | 21073 | 14781 |
| 15° | 20433 | 25949 | 20718 | 12452 |
| 20° | 20114 | 24365 | 20114 | 10822 |
| 25° | 19473 | 20932 | 19562 | 9678  |
| 30° | 18418 | 16454 | 18769 | 8766  |
| 35° | 17484 | 11378 | 17776 | 8020  |
| 40° | 16410 | 8590  | 16596 | 7427  |
| 45° | 15085 | 7060  | 15332 | 6785  |
| 50° | 13942 | 6196  | 13965 | 6211  |
| 55° | 12636 | 5279  | 12716 | 5588  |
| 60° | 11243 | 4410  | 11397 | 4877  |
| 65° | 9996  | 3587  | 10178 | 4165  |
| 70° | 8757  | 2815  | 8978  | 3359  |
| 75° | 7351  | 2042  | 7636  | 2437  |
| 80° | 5732  | 1295  | 6148  | 1446  |
| 85° | 3772  | 651   | 4054  | 482   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 21850 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.2  | 3.0       |
| 10°-20°   | 370.2  | 8.7       |
| 20°-30°   | 537.2  | 12.6      |
| 30°-40°   | 566.3  | 13.3      |
| 40°-50°   | 501.2  | 11.8      |
| 50°-60°   | 400.2  | 9.4       |
| 60°-70°   | 271.8  | 6.4       |
| 70°-80°   | 139.1  | 3.3       |
| 80°-90°   | 33.6   | 0.8       |
| 90°-100°  | 14.8   | 0.3       |
| 100°-110° | 55.3   | 1.3       |
| 110°-120° | 146.6  | 3.4       |
| 120°-130° | 243.1  | 5.7       |
| 130°-140° | 258.3  | 6.1       |
| 140°-150° | 240.0  | 5.6       |
| 150°-160° | 193.0  | 4.5       |
| 160°-170° | 124.3  | 2.9       |
| 170°-180° | 42.8   | 1.0       |
| 0°-30°    | 1034.6 | 24.3      |
| 0°-40°    | 1600.9 | 37.5      |
| 0°-60°    | 2502.3 | 58.7      |
| 0°-90°    | 2946.8 | 69.1      |
| 90°-120°  | 216.7  | 5.1       |
| 90°-150°  | 958.1  | 22.5      |
| 90°-180°  | 1318.0 | 30.9      |
| 0°-180°   | 4265.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1335 | 1335 | 1335 | 1335 | 1335 |      |
| 5°   | 1336 | 1491 | 1341 | 1186 | 1336 | 127  |
| 15°  | 1255 | 1833 | 1273 | 880  | 1255 | 355  |
| 25°  | 1128 | 1527 | 1133 | 706  | 1128 | 516  |
| 35°  | 921  | 831  | 936  | 586  | 921  | 576  |
| 45°  | 691  | 501  | 702  | 481  | 691  | 536  |
| 55°  | 474  | 352  | 477  | 373  | 474  | 423  |
| 65°  | 281  | 217  | 286  | 252  | 281  | 280  |
| 75°  | 131  | 107  | 136  | 127  | 131  | 141  |
| 85°  | 27   | 28   | 29   | 20   | 27   | 31   |
| 90°  | 0    | 9    | 0    | 9    | 0    | 3    |
| 95°  | 21   | 14   | 21   | 14   | 21   | 25   |
| 105° | 99   | 25   | 99   | 25   | 99   | 106  |
| 115° | 187  | 27   | 187  | 27   | 187  | 184  |
| 125° | 264  | 278  | 264  | 278  | 264  | 236  |
| 135° | 327  | 338  | 327  | 338  | 327  | 253  |
| 145° | 380  | 386  | 380  | 386  | 380  | 237  |
| 155° | 418  | 418  | 418  | 418  | 418  | 193  |
| 165° | 440  | 440  | 440  | 440  | 440  | 124  |
| 175° | 451  | 448  | 451  | 448  | 451  | 43   |
| 180° | 450  | 450  | 450  | 450  | 450  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1342.4 | 1345.5 | 1350.7 | 1351.7 | 1361.9 | 1370.2 | 1379.4 | 1379.4 | 1382.5 | 1381.4 | 1373.2 |
| 5°     | 1336.3 | 1345.5 | 1358.9 | 1370.2 | 1388.6 | 1396.8 | 1409.2 | 1418.4 | 1426.6 | 1432.8 | 1431.7 |
| 7.5°   | 1326.0 | 1342.4 | 1361.9 | 1383.5 | 1408.1 | 1422.5 | 1440.0 | 1456.4 | 1467.7 | 1477.9 | 1485.1 |
| 10°    | 1308.6 | 1336.3 | 1363.0 | 1391.7 | 1423.5 | 1443.0 | 1463.6 | 1485.1 | 1502.6 | 1522.1 | 1540.5 |
| 12.5°  | 1285.0 | 1325.0 | 1357.8 | 1395.8 | 1434.8 | 1456.4 | 1489.2 | 1505.6 | 1539.5 | 1588.8 | 1602.1 |
| 15°    | 1255.2 | 1309.6 | 1340.4 | 1388.6 | 1440.0 | 1457.4 | 1502.6 | 1529.2 | 1599.0 | 1629.8 | 1666.8 |
| 17.5°  | 1227.5 | 1288.1 | 1329.1 | 1384.5 | 1434.8 | 1468.7 | 1512.8 | 1567.2 | 1625.7 | 1669.9 | 1710.9 |
| 20°    | 1204.9 | 1263.4 | 1312.7 | 1374.3 | 1437.9 | 1481.0 | 1527.2 | 1592.9 | 1656.5 | 1701.7 | 1733.5 |
| 22.5°  | 1153.6 | 1228.5 | 1286.0 | 1354.8 | 1431.7 | 1491.3 | 1535.4 | 1607.2 | 1676.0 | 1703.7 | 1731.4 |
| 25°    | 1127.9 | 1192.6 | 1259.3 | 1337.3 | 1427.6 | 1498.5 | 1536.4 | 1616.5 | 1677.0 | 1687.3 | 1693.5 |
| 27.5°  | 1080.7 | 1153.6 | 1231.6 | 1320.9 | 1426.6 | 1486.1 | 1534.4 | 1607.2 | 1655.5 | 1648.3 | 1629.8 |
| 30°    | 1022.2 | 1111.5 | 1197.7 | 1294.2 | 1412.2 | 1476.9 | 1522.1 | 1588.8 | 1613.4 | 1576.5 | 1543.6 |
| 32.5°  | 979.1  | 1063.3 | 1158.7 | 1270.6 | 1395.8 | 1457.4 | 1501.5 | 1553.9 | 1559.0 | 1492.3 | 1436.9 |
| 35°    | 920.6  | 1014.0 | 1121.8 | 1239.8 | 1368.1 | 1423.5 | 1464.6 | 1496.4 | 1471.8 | 1378.4 | 1312.7 |
| 37.5°  | 868.3  | 960.7  | 1075.6 | 1195.7 | 1330.1 | 1384.5 | 1417.4 | 1422.5 | 1361.9 | 1279.8 | 1183.4 |
| 40°    | 810.8  | 906.3  | 1026.3 | 1152.6 | 1288.1 | 1335.3 | 1355.8 | 1340.4 | 1253.2 | 1157.7 | 1045.8 |
| 42.5°  | 753.3  | 847.8  | 977.1  | 1106.4 | 1234.7 | 1274.7 | 1282.9 | 1240.8 | 1134.1 | 1022.2 | 892.9  |
| 45°    | 690.7  | 789.3  | 918.6  | 1048.9 | 1173.1 | 1195.7 | 1196.7 | 1136.2 | 1009.9 | 892.9  | 772.8  |
| 47.5°  | 639.4  | 730.8  | 859.0  | 989.4  | 1094.1 | 1109.5 | 1103.3 | 1033.5 | 896.0  | 764.6  | 659.9  |
| 50°    | 583.0  | 670.2  | 797.5  | 925.8  | 1015.0 | 1019.2 | 1003.8 | 904.2  | 769.8  | 649.7  | 566.5  |
| 52.5°  | 522.4  | 610.7  | 727.7  | 850.8  | 930.9  | 924.7  | 895.0  | 788.2  | 662.0  | 562.4  | 498.8  |
| 55°    | 474.2  | 552.2  | 662.0  | 782.1  | 838.5  | 821.1  | 788.2  | 679.4  | 579.9  | 495.7  | 440.3  |
| 57.5°  | 420.8  | 489.6  | 597.3  | 702.0  | 734.9  | 718.4  | 685.6  | 584.0  | 491.6  | 428.0  | 391.0  |
| 60°    | 370.5  | 433.1  | 527.5  | 614.8  | 640.4  | 623.0  | 585.0  | 493.7  | 427.0  | 373.6  | 345.9  |
| 62.5°  | 324.3  | 378.7  | 457.7  | 537.8  | 548.1  | 530.6  | 497.8  | 423.9  | 366.4  | 324.3  | 303.8  |
| 65°    | 281.2  | 332.5  | 396.2  | 456.7  | 466.0  | 447.5  | 413.6  | 360.2  | 312.0  | 285.3  | 265.8  |
| 67.5°  | 239.1  | 280.2  | 336.6  | 380.8  | 385.9  | 368.5  | 340.7  | 297.6  | 267.9  | 239.1  | 224.8  |
| 70°    | 202.2  | 233.0  | 277.1  | 313.0  | 315.1  | 298.7  | 284.3  | 245.3  | 222.7  | 202.2  | 190.9  |
| 72.5°  | 166.3  | 187.8  | 221.7  | 248.4  | 249.4  | 239.1  | 225.8  | 201.2  | 181.7  | 167.3  | 156.0  |
| 75°    | 131.4  | 149.8  | 170.4  | 194.0  | 193.0  | 184.7  | 174.5  | 159.1  | 142.7  | 133.4  | 128.3  |
| 77.5°  | 100.6  | 111.9  | 128.3  | 143.7  | 143.7  | 139.6  | 133.4  | 122.1  | 111.9  | 102.6  | 97.5   |
| 80°    | 71.8   | 79.0   | 92.4   | 97.5   | 99.6   | 98.5   | 93.4   | 85.2   | 81.1   | 73.9   | 71.8   |
| 82.5°  | 46.2   | 51.3   | 57.5   | 62.6   | 65.7   | 63.6   | 62.6   | 58.5   | 52.3   | 50.3   | 48.2   |
| 85°    | 26.7   | 28.7   | 31.8   | 34.9   | 35.9   | 34.9   | 36.9   | 33.9   | 30.8   | 30.8   | 29.8   |
| 87.5°  | 11.3   | 12.3   | 14.4   | 14.4   | 15.4   | 15.4   | 14.4   | 15.4   | 15.4   | 14.4   | 13.3   |
| 90°    | 0.3    | 1.1    | 1.9    | 2.7    | 3.5    | 3.9    | 4.2    | 4.8    | 5.3    | 5.9    | 6.5    |
| 92.5°  | 8.1    | 7.8    | 7.5    | 7.2    | 6.9    | 6.8    | 6.9    | 7.1    | 7.4    | 7.6    | 7.8    |
| 95°    | 21.1   | 18.7   | 16.3   | 14.0   | 11.6   | 10.4   | 10.7   | 11.2   | 11.7   | 12.2   | 12.7   |
| 97.5°  | 38.1   | 32.2   | 26.2   | 20.3   | 14.4   | 11.4   | 12.0   | 13.1   | 14.3   | 15.4   | 16.6   |
| 100°   | 57.6   | 47.7   | 37.8   | 27.9   | 18.0   | 13.0   | 13.6   | 14.8   | 16.1   | 17.3   | 18.5   |
| 102.5° | 79.1   | 78.9   | 78.8   | 78.6   | 78.5   | 78.4   | 71.8   | 58.7   | 45.5   | 32.4   | 19.2   |
| 105°   | 98.9   | 101.1  | 103.3  | 105.4  | 107.6  | 108.7  | 98.8   | 79.1   | 59.3   | 39.6   | 19.8   |
| 107.5° | 122.0  | 123.8  | 125.6  | 127.4  | 129.2  | 130.1  | 117.9  | 93.6   | 69.2   | 44.9   | 20.5   |
| 110°   | 144.1  | 145.6  | 147.2  | 148.7  | 150.2  | 151.0  | 140.5  | 119.6  | 98.7   | 77.8   | 56.9   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.0 | 166.3 | 167.6 | 168.9 | 170.2 | 170.8 | 170.2 | 169.0 | 167.7 | 166.5 | 165.3 |
| 115°   | 187.1 | 188.3 | 189.5 | 190.8 | 192.0 | 192.6 | 193.5 | 195.3 | 197.1 | 198.9 | 200.7 |
| 117.5° | 206.3 | 207.7 | 209.2 | 210.6 | 212.1 | 212.8 | 213.4 | 214.6 | 215.9 | 217.1 | 218.3 |
| 120°   | 227.8 | 228.9 | 229.9 | 231.0 | 232.1 | 232.6 | 233.3 | 234.6 | 235.9 | 237.2 | 238.5 |
| 122.5° | 246.0 | 247.2 | 248.3 | 249.5 | 250.6 | 251.2 | 251.9 | 253.4 | 254.8 | 256.3 | 257.7 |
| 125°   | 264.5 | 265.4 | 266.4 | 267.3 | 268.2 | 268.7 | 269.4 | 270.8 | 272.1 | 273.5 | 274.9 |
| 127.5° | 281.4 | 282.4 | 283.4 | 284.5 | 285.5 | 286.0 | 286.5 | 287.6 | 288.7 | 289.8 | 290.9 |
| 130°   | 297.4 | 298.6 | 299.7 | 300.9 | 302.0 | 302.6 | 303.0 | 303.8 | 304.6 | 305.4 | 306.2 |
| 132.5° | 313.6 | 314.6 | 315.5 | 316.5 | 317.4 | 317.9 | 318.3 | 319.1 | 319.9 | 320.7 | 321.5 |
| 135°   | 327.3 | 328.5 | 329.6 | 330.8 | 331.9 | 332.5 | 332.8 | 333.5 | 334.1 | 334.8 | 335.4 |
| 137.5° | 341.6 | 342.5 | 343.3 | 344.2 | 345.1 | 345.5 | 345.9 | 346.6 | 347.3 | 348.1 | 348.8 |
| 140°   | 355.6 | 356.2 | 356.8 | 357.3 | 357.9 | 358.2 | 358.6 | 359.4 | 360.2 | 361.0 | 361.8 |
| 142.5° | 367.3 | 367.8 | 368.3 | 368.8 | 369.3 | 369.6 | 370.1 | 371.0 | 371.9 | 372.9 | 373.8 |
| 145°   | 379.7 | 379.6 | 379.6 | 379.5 | 379.4 | 379.4 | 380.0 | 381.2 | 382.5 | 383.7 | 384.9 |
| 147.5° | 390.4 | 390.2 | 390.0 | 389.8 | 389.6 | 389.5 | 390.1 | 391.3 | 392.6 | 393.8 | 395.0 |
| 150°   | 400.8 | 400.3 | 399.8 | 399.3 | 398.8 | 398.6 | 399.2 | 400.3 | 401.5 | 402.6 | 403.8 |
| 152.5° | 409.6 | 409.0 | 408.4 | 407.9 | 407.3 | 407.0 | 407.5 | 408.6 | 409.7 | 410.8 | 411.9 |
| 155°   | 418.1 | 417.5 | 416.8 | 416.2 | 415.5 | 415.2 | 415.6 | 416.5 | 417.4 | 418.2 | 419.1 |
| 157.5° | 424.9 | 424.3 | 423.7 | 423.2 | 422.6 | 422.3 | 422.6 | 423.3 | 423.9 | 424.6 | 425.2 |
| 160°   | 430.8 | 430.4 | 429.9 | 429.5 | 429.0 | 428.8 | 429.0 | 429.5 | 429.9 | 430.4 | 430.8 |
| 162.5° | 436.0 | 435.6 | 435.1 | 434.7 | 434.2 | 434.0 | 434.2 | 434.6 | 434.9 | 435.3 | 435.7 |
| 165°   | 440.5 | 440.1 | 439.7 | 439.2 | 438.8 | 438.6 | 438.7 | 438.9 | 439.2 | 439.4 | 439.6 |
| 167.5° | 444.1 | 443.7 | 443.3 | 442.8 | 442.4 | 442.2 | 442.3 | 442.5 | 442.7 | 442.9 | 443.1 |
| 170°   | 447.0 | 446.6 | 446.2 | 445.7 | 445.3 | 445.1 | 445.2 | 445.3 | 445.4 | 445.6 | 445.7 |
| 172.5° | 449.0 | 448.6 | 448.1 | 447.7 | 447.2 | 447.0 | 447.1 | 447.2 | 447.4 | 447.5 | 447.7 |
| 175°   | 450.6 | 450.1 | 449.6 | 449.1 | 448.6 | 448.3 | 448.4 | 448.5 | 448.7 | 448.8 | 449.0 |
| 177.5° | 451.3 | 450.8 | 450.3 | 449.8 | 449.3 | 449.0 | 449.0 | 449.1 | 449.2 | 449.2 | 449.3 |
| 180°   | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1387.6 | 1388.6 | 1390.7 | 1400.9 | 1406.1 | 1407.1 | 1403.0 | 1412.2 | 1415.3 | 1412.2 | 1410.2 |
| 5°     | 1453.3 | 1459.5 | 1471.8 | 1485.1 | 1484.1 | 1485.1 | 1491.3 | 1497.4 | 1499.5 | 1491.3 | 1494.3 |
| 7.5°   | 1510.8 | 1523.1 | 1536.4 | 1557.0 | 1557.0 | 1567.2 | 1571.3 | 1576.5 | 1588.8 | 1582.6 | 1580.6 |
| 10°    | 1576.5 | 1592.9 | 1617.5 | 1650.3 | 1651.4 | 1661.6 | 1671.9 | 1688.3 | 1693.5 | 1689.4 | 1691.4 |
| 12.5°  | 1658.6 | 1690.4 | 1692.4 | 1728.4 | 1744.8 | 1746.8 | 1763.2 | 1760.2 | 1770.4 | 1770.4 | 1787.9 |
| 15°    | 1694.5 | 1743.7 | 1771.5 | 1806.4 | 1816.6 | 1804.3 | 1817.6 | 1832.0 | 1833.0 | 1833.0 | 1832.0 |
| 17.5°  | 1759.1 | 1778.6 | 1806.4 | 1824.8 | 1828.9 | 1828.9 | 1830.0 | 1836.1 | 1832.0 | 1823.8 | 1830.0 |
| 20°    | 1772.5 | 1780.7 | 1791.0 | 1788.9 | 1791.0 | 1780.7 | 1770.4 | 1760.2 | 1761.2 | 1756.1 | 1771.5 |
| 22.5°  | 1747.9 | 1745.8 | 1722.2 | 1706.8 | 1706.8 | 1686.3 | 1666.8 | 1657.5 | 1648.3 | 1651.4 | 1656.5 |
| 25°    | 1686.3 | 1654.5 | 1625.7 | 1603.1 | 1598.0 | 1565.2 | 1538.5 | 1530.3 | 1514.9 | 1527.2 | 1529.2 |
| 27.5°  | 1587.7 | 1551.8 | 1505.6 | 1486.1 | 1459.5 | 1446.1 | 1427.6 | 1403.0 | 1371.2 | 1389.7 | 1386.6 |
| 30°    | 1482.0 | 1428.7 | 1390.7 | 1343.5 | 1301.4 | 1298.3 | 1263.4 | 1222.4 | 1205.9 | 1205.9 | 1215.2 |
| 32.5°  | 1364.0 | 1293.2 | 1237.8 | 1171.1 | 1130.0 | 1112.5 | 1070.5 | 1029.4 | 1038.7 | 1007.9 | 1019.2 |
| 35°    | 1226.5 | 1133.1 | 1063.3 | 998.6  | 967.8  | 947.3  | 892.9  | 870.3  | 845.7  | 831.3  | 858.0  |
| 37.5°  | 1095.1 | 987.3  | 898.0  | 827.2  | 815.9  | 779.0  | 742.0  | 727.7  | 713.3  | 719.5  | 718.4  |
| 40°    | 935.0  | 839.5  | 759.5  | 704.1  | 684.6  | 667.1  | 642.5  | 625.0  | 615.8  | 620.9  | 622.0  |
| 42.5°  | 790.3  | 710.2  | 650.7  | 611.7  | 595.3  | 583.0  | 570.6  | 556.3  | 553.2  | 553.2  | 557.3  |
| 45°    | 678.4  | 612.7  | 572.7  | 540.9  | 531.6  | 522.4  | 513.2  | 507.0  | 505.0  | 500.9  | 503.9  |
| 47.5°  | 589.1  | 536.8  | 512.1  | 488.5  | 478.3  | 476.2  | 468.0  | 464.9  | 460.8  | 459.8  | 460.8  |
| 50°    | 514.2  | 481.4  | 458.8  | 445.4  | 438.2  | 435.2  | 431.1  | 424.9  | 422.9  | 428.0  | 425.9  |
| 52.5°  | 461.9  | 431.1  | 418.7  | 405.4  | 401.3  | 397.2  | 391.0  | 392.1  | 391.0  | 389.0  | 389.0  |
| 55°    | 409.5  | 390.0  | 377.7  | 367.4  | 366.4  | 362.3  | 357.2  | 355.1  | 354.1  | 352.0  | 355.1  |
| 57.5°  | 367.4  | 352.0  | 340.7  | 331.5  | 327.4  | 327.4  | 322.3  | 318.2  | 318.2  | 317.1  | 318.2  |
| 60°    | 325.3  | 310.0  | 302.8  | 293.5  | 290.5  | 289.4  | 286.3  | 284.3  | 281.2  | 281.2  | 281.2  |
| 62.5°  | 286.3  | 274.0  | 265.8  | 257.6  | 258.6  | 253.5  | 249.4  | 247.3  | 247.3  | 248.4  | 248.4  |
| 65°    | 249.4  | 241.2  | 230.9  | 223.7  | 221.7  | 220.7  | 218.6  | 217.6  | 214.5  | 216.6  | 216.6  |
| 67.5°  | 215.5  | 204.2  | 198.1  | 195.0  | 191.9  | 190.9  | 188.8  | 186.8  | 185.8  | 184.7  | 186.8  |
| 70°    | 181.7  | 172.4  | 167.3  | 165.2  | 162.2  | 161.1  | 160.1  | 157.0  | 158.1  | 159.1  | 160.1  |
| 72.5°  | 150.9  | 142.7  | 141.6  | 135.5  | 135.5  | 135.5  | 131.4  | 133.4  | 132.4  | 130.3  | 132.4  |
| 75°    | 119.1  | 114.9  | 112.9  | 109.8  | 110.8  | 109.8  | 108.8  | 105.7  | 105.7  | 106.7  | 107.8  |
| 77.5°  | 94.4   | 90.3   | 89.3   | 86.2   | 84.2   | 86.2   | 84.2   | 83.1   | 83.1   | 84.2   | 84.2   |
| 80°    | 69.8   | 67.7   | 64.7   | 64.7   | 64.7   | 63.6   | 63.6   | 63.6   | 62.6   | 61.6   | 62.6   |
| 82.5°  | 46.2   | 46.2   | 45.2   | 44.1   | 45.2   | 43.1   | 44.1   | 44.1   | 44.1   | 44.1   | 44.1   |
| 85°    | 29.8   | 28.7   | 28.7   | 27.7   | 27.7   | 27.7   | 28.7   | 26.7   | 26.7   | 27.7   | 27.7   |
| 87.5°  | 13.3   | 13.3   | 13.3   | 14.4   | 13.3   | 13.3   | 13.3   | 14.4   | 13.3   | 13.3   | 13.3   |
| 90°    | 6.9    | 7.2    | 7.6    | 7.9    | 8.1    | 8.2    | 8.3    | 8.5    | 8.6    | 8.8    | 8.6    |
| 92.5°  | 8.0    | 8.1    | 8.3    | 8.4    | 8.5    | 8.5    | 8.6    | 8.7    | 8.7    | 8.8    | 8.7    |
| 95°    | 13.1   | 13.4   | 13.8   | 14.1   | 14.3   | 14.3   | 14.2   | 14.1   | 14.1   | 14.0   | 14.1   |
| 97.5°  | 16.8   | 17.0   | 17.3   | 17.5   | 17.6   | 17.6   | 17.7   | 17.8   | 17.8   | 17.9   | 17.8   |
| 100°   | 19.1   | 19.7   | 20.2   | 20.8   | 21.1   | 21.2   | 21.3   | 21.5   | 21.6   | 21.8   | 21.6   |
| 102.5° | 20.0   | 20.8   | 21.6   | 22.4   | 22.8   | 22.9   | 23.1   | 23.4   | 23.6   | 23.8   | 23.6   |
| 105°   | 20.6   | 21.4   | 22.2   | 23.0   | 23.4   | 23.5   | 23.8   | 24.1   | 24.4   | 24.7   | 24.4   |
| 107.5° | 21.3   | 22.1   | 22.9   | 23.7   | 24.1   | 24.2   | 24.5   | 24.8   | 25.1   | 25.4   | 25.1   |
| 110°   | 49.7   | 42.5   | 35.2   | 28.0   | 24.4   | 24.5   | 24.8   | 25.1   | 25.4   | 25.7   | 25.4   |



TEST NUMBER: P998742

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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 134.1 | 103.0 | 71.8  | 40.7  | 25.1  | 25.2  | 25.4  | 25.6  | 25.8  | 26.0  | 25.8  |
| 115°   | 167.2 | 133.8 | 100.3 | 66.8  | 50.1  | 47.5  | 42.3  | 37.1  | 31.9  | 26.7  | 31.9  |
| 117.5° | 208.0 | 197.6 | 187.3 | 177.0 | 171.8 | 162.3 | 143.4 | 124.4 | 105.5 | 86.5  | 105.5 |
| 120°   | 239.4 | 240.2 | 241.1 | 242.0 | 242.4 | 237.5 | 227.8 | 218.0 | 208.3 | 198.5 | 208.3 |
| 122.5° | 258.1 | 258.5 | 259.0 | 259.4 | 259.6 | 259.6 | 259.7 | 259.8 | 259.9 | 260.0 | 259.9 |
| 125°   | 275.4 | 275.9 | 276.4 | 276.9 | 277.2 | 277.3 | 277.5 | 277.8 | 278.0 | 278.2 | 278.0 |
| 127.5° | 291.6 | 292.3 | 293.0 | 293.7 | 294.1 | 294.1 | 294.2 | 294.3 | 294.4 | 294.5 | 294.4 |
| 130°   | 307.0 | 307.8 | 308.5 | 309.3 | 309.7 | 309.7 | 309.6 | 309.5 | 309.5 | 309.4 | 309.5 |
| 132.5° | 322.1 | 322.8 | 323.4 | 324.1 | 324.4 | 324.4 | 324.3 | 324.2 | 324.2 | 324.1 | 324.2 |
| 135°   | 336.1 | 336.9 | 337.6 | 338.3 | 338.7 | 338.6 | 338.5 | 338.3 | 338.2 | 338.0 | 338.2 |
| 137.5° | 349.5 | 350.2 | 350.9 | 351.6 | 352.0 | 351.9 | 351.7 | 351.5 | 351.3 | 351.1 | 351.3 |
| 140°   | 362.4 | 363.1 | 363.7 | 364.4 | 364.7 | 364.5 | 364.2 | 363.8 | 363.5 | 363.1 | 363.5 |
| 142.5° | 374.4 | 375.0 | 375.5 | 376.1 | 376.4 | 376.2 | 375.9 | 375.5 | 375.2 | 374.8 | 375.2 |
| 145°   | 385.4 | 385.9 | 386.4 | 386.9 | 387.2 | 387.0 | 386.7 | 386.3 | 386.0 | 385.6 | 386.0 |
| 147.5° | 395.4 | 395.7 | 396.1 | 396.4 | 396.6 | 396.5 | 396.2 | 395.9 | 395.6 | 395.3 | 395.6 |
| 150°   | 404.2 | 404.6 | 405.1 | 405.5 | 405.7 | 405.5 | 405.2 | 404.8 | 404.5 | 404.1 | 404.5 |
| 152.5° | 412.3 | 412.8 | 413.2 | 413.7 | 413.9 | 413.6 | 413.1 | 412.6 | 412.1 | 411.6 | 412.1 |
| 155°   | 419.5 | 419.9 | 420.4 | 420.8 | 421.0 | 420.7 | 420.1 | 419.6 | 419.0 | 418.4 | 419.0 |
| 157.5° | 425.7 | 426.2 | 426.7 | 427.2 | 427.5 | 427.2 | 426.6 | 426.1 | 425.5 | 424.9 | 425.5 |
| 160°   | 431.2 | 431.6 | 432.1 | 432.5 | 432.7 | 432.5 | 432.0 | 431.5 | 431.0 | 430.5 | 431.0 |
| 162.5° | 436.2 | 436.7 | 437.2 | 437.7 | 437.9 | 437.6 | 436.9 | 436.3 | 435.6 | 435.0 | 435.6 |
| 165°   | 440.1 | 440.6 | 441.1 | 441.6 | 441.8 | 441.6 | 441.1 | 440.6 | 440.1 | 439.6 | 440.1 |
| 167.5° | 443.6 | 444.1 | 444.6 | 445.1 | 445.4 | 445.1 | 444.4 | 443.8 | 443.1 | 442.5 | 443.1 |
| 170°   | 446.2 | 446.7 | 447.2 | 447.7 | 448.0 | 447.7 | 447.0 | 446.4 | 445.7 | 445.1 | 445.7 |
| 172.5° | 448.2 | 448.7 | 449.2 | 449.7 | 450.0 | 449.7 | 449.0 | 448.3 | 447.7 | 447.0 | 447.7 |
| 175°   | 449.5 | 450.0 | 450.5 | 451.0 | 451.3 | 450.9 | 450.2 | 449.5 | 448.7 | 448.0 | 448.7 |
| 177.5° | 449.8 | 450.3 | 450.8 | 451.3 | 451.6 | 451.3 | 450.6 | 450.0 | 449.3 | 448.7 | 449.3 |
| 180°   | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1415.3 | 1408.1 | 1402.0 | 1403.0 | 1408.1 | 1404.0 | 1393.8 | 1380.4 | 1375.3 | 1369.1 | 1375.3 |
| 5°     | 1500.5 | 1494.3 | 1482.0 | 1483.1 | 1480.0 | 1475.9 | 1459.5 | 1438.9 | 1438.9 | 1422.5 | 1420.5 |
| 7.5°   | 1584.7 | 1575.4 | 1567.2 | 1565.2 | 1553.9 | 1545.7 | 1531.3 | 1502.6 | 1491.3 | 1471.8 | 1460.5 |
| 10°    | 1679.1 | 1671.9 | 1662.7 | 1651.4 | 1645.2 | 1630.8 | 1607.2 | 1565.2 | 1544.6 | 1518.0 | 1498.5 |
| 12.5°  | 1774.5 | 1773.5 | 1753.0 | 1730.4 | 1729.4 | 1706.8 | 1690.4 | 1633.9 | 1606.2 | 1570.3 | 1524.1 |
| 15°    | 1835.1 | 1830.0 | 1818.7 | 1807.4 | 1810.5 | 1785.8 | 1748.9 | 1682.2 | 1663.7 | 1620.6 | 1571.3 |
| 17.5°  | 1834.1 | 1834.1 | 1831.0 | 1828.9 | 1825.9 | 1818.7 | 1798.1 | 1754.0 | 1724.2 | 1669.9 | 1623.7 |
| 20°    | 1775.6 | 1788.9 | 1792.0 | 1791.0 | 1801.2 | 1806.4 | 1805.3 | 1777.6 | 1754.0 | 1705.8 | 1658.6 |
| 22.5°  | 1658.6 | 1689.4 | 1702.7 | 1710.9 | 1732.5 | 1743.7 | 1770.4 | 1760.2 | 1754.0 | 1718.1 | 1678.1 |
| 25°    | 1549.8 | 1560.0 | 1600.1 | 1602.1 | 1631.9 | 1659.6 | 1686.3 | 1703.7 | 1726.3 | 1713.0 | 1679.1 |
| 27.5°  | 1409.2 | 1432.8 | 1461.5 | 1483.1 | 1489.2 | 1545.7 | 1589.8 | 1622.6 | 1674.0 | 1678.1 | 1666.8 |
| 30°    | 1250.1 | 1261.4 | 1308.6 | 1337.3 | 1370.2 | 1411.2 | 1474.8 | 1531.3 | 1577.5 | 1619.6 | 1633.9 |
| 32.5°  | 1056.1 | 1102.3 | 1130.0 | 1164.9 | 1193.6 | 1266.5 | 1344.5 | 1417.4 | 1470.7 | 1541.6 | 1572.3 |
| 35°    | 878.5  | 914.5  | 961.7  | 976.0  | 1028.4 | 1090.0 | 1191.6 | 1285.0 | 1366.1 | 1437.9 | 1500.5 |
| 37.5°  | 731.8  | 760.5  | 810.8  | 833.4  | 864.2  | 943.2  | 1028.4 | 1144.4 | 1241.9 | 1330.1 | 1408.1 |
| 40°    | 631.2  | 652.8  | 690.7  | 697.9  | 723.6  | 795.4  | 864.2  | 973.0  | 1102.3 | 1221.3 | 1306.5 |
| 42.5°  | 562.4  | 572.7  | 598.4  | 607.6  | 624.0  | 672.3  | 733.8  | 836.5  | 956.5  | 1079.7 | 1199.8 |
| 45°    | 513.2  | 520.4  | 535.7  | 544.0  | 564.5  | 586.0  | 636.3  | 718.4  | 812.9  | 937.0  | 1066.4 |
| 47.5°  | 469.0  | 478.3  | 484.4  | 489.6  | 500.9  | 524.5  | 557.3  | 617.9  | 708.2  | 822.1  | 947.3  |
| 50°    | 432.1  | 435.2  | 446.5  | 447.5  | 454.7  | 470.1  | 500.9  | 537.8  | 609.6  | 702.0  | 823.1  |
| 52.5°  | 395.1  | 398.2  | 405.4  | 412.6  | 415.7  | 428.0  | 448.5  | 479.3  | 532.7  | 605.5  | 713.3  |
| 55°    | 358.2  | 362.3  | 369.5  | 374.6  | 377.7  | 388.0  | 400.3  | 430.0  | 472.1  | 523.4  | 611.7  |
| 57.5°  | 321.2  | 330.5  | 332.5  | 335.6  | 340.7  | 352.0  | 363.3  | 380.8  | 413.6  | 460.8  | 525.5  |
| 60°    | 286.3  | 289.4  | 296.6  | 299.7  | 304.8  | 311.0  | 325.3  | 338.7  | 362.3  | 399.2  | 457.7  |
| 62.5°  | 250.4  | 257.6  | 260.7  | 263.8  | 267.9  | 275.1  | 284.3  | 298.7  | 319.2  | 349.0  | 395.1  |
| 65°    | 219.6  | 220.7  | 226.8  | 230.9  | 235.0  | 240.2  | 249.4  | 262.7  | 275.1  | 302.8  | 336.6  |
| 67.5°  | 189.9  | 191.9  | 194.0  | 198.1  | 203.2  | 208.3  | 216.6  | 223.7  | 239.1  | 257.6  | 284.3  |
| 70°    | 161.1  | 161.1  | 166.3  | 169.3  | 168.3  | 174.5  | 180.6  | 188.8  | 200.1  | 217.6  | 239.1  |
| 72.5°  | 135.5  | 134.5  | 138.6  | 139.6  | 141.6  | 145.7  | 149.8  | 158.1  | 164.2  | 177.6  | 194.0  |
| 75°    | 107.8  | 109.8  | 111.9  | 111.9  | 114.9  | 118.0  | 122.1  | 126.2  | 133.4  | 141.6  | 154.0  |
| 77.5°  | 85.2   | 85.2   | 87.2   | 88.3   | 91.3   | 90.3   | 94.4   | 98.5   | 103.7  | 110.8  | 120.1  |
| 80°    | 62.6   | 64.7   | 64.7   | 64.7   | 65.7   | 66.7   | 70.8   | 73.9   | 77.0   | 82.1   | 86.2   |
| 82.5°  | 44.1   | 44.1   | 46.2   | 46.2   | 46.2   | 48.2   | 48.2   | 49.3   | 51.3   | 54.4   | 57.5   |
| 85°    | 27.7   | 27.7   | 27.7   | 28.7   | 27.7   | 28.7   | 30.8   | 29.8   | 30.8   | 32.8   | 32.8   |
| 87.5°  | 13.3   | 13.3   | 13.3   | 13.3   | 13.3   | 14.4   | 13.3   | 14.4   | 15.4   | 15.4   | 15.4   |
| 90°    | 8.5    | 8.3    | 8.2    | 8.1    | 7.9    | 7.6    | 7.2    | 6.9    | 6.5    | 5.9    | 5.3    |
| 92.5°  | 8.7    | 8.6    | 8.5    | 8.5    | 8.4    | 8.3    | 8.1    | 8.0    | 7.8    | 7.6    | 7.4    |
| 95°    | 14.1   | 14.2   | 14.3   | 14.3   | 14.1   | 13.8   | 13.4   | 13.1   | 12.7   | 12.2   | 11.7   |
| 97.5°  | 17.8   | 17.7   | 17.6   | 17.6   | 17.5   | 17.3   | 17.0   | 16.8   | 16.6   | 15.4   | 14.3   |
| 100°   | 21.5   | 21.3   | 21.2   | 21.1   | 20.8   | 20.2   | 19.7   | 19.1   | 18.5   | 17.3   | 16.1   |
| 102.5° | 23.4   | 23.1   | 22.9   | 22.8   | 22.4   | 21.6   | 20.8   | 20.0   | 19.2   | 32.4   | 45.5   |
| 105°   | 24.1   | 23.8   | 23.5   | 23.4   | 23.0   | 22.2   | 21.4   | 20.6   | 19.8   | 39.6   | 59.3   |
| 107.5° | 24.8   | 24.5   | 24.2   | 24.1   | 23.7   | 22.9   | 22.1   | 21.3   | 20.5   | 44.9   | 69.2   |
| 110°   | 25.1   | 24.8   | 24.5   | 24.4   | 28.0   | 35.2   | 42.5   | 49.7   | 56.9   | 77.8   | 98.7   |



TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 25.6  | 25.4  | 25.2  | 25.1   | 40.7  | 71.8  | 103.0 | 134.1 | 165.3 | 166.5 | 167.7 |
| 115°   | 37.1  | 42.3  | 47.5  | 50.1   | 66.8  | 100.3 | 133.8 | 167.2 | 200.7 | 198.9 | 197.1 |
| 117.5° | 124.4 | 143.4 | 162.3 | 171.8  | 177.0 | 187.3 | 197.6 | 208.0 | 218.3 | 217.1 | 215.9 |
| 120°   | 218.0 | 227.8 | 237.5 | 242.4  | 242.0 | 241.1 | 240.2 | 239.4 | 238.5 | 237.2 | 235.9 |
| 122.5° | 259.8 | 259.7 | 259.6 | 259.6  | 259.4 | 259.0 | 258.5 | 258.1 | 257.7 | 256.3 | 254.8 |
| 125°   | 277.8 | 277.5 | 277.3 | 277.2  | 276.9 | 276.4 | 275.9 | 275.4 | 274.9 | 273.5 | 272.1 |
| 127.5° | 294.3 | 294.2 | 294.1 | 294.1  | 293.7 | 293.0 | 292.3 | 291.6 | 290.9 | 289.8 | 288.7 |
| 130°   | 309.5 | 309.6 | 309.7 | 309.7  | 309.3 | 308.5 | 307.8 | 307.0 | 306.2 | 305.4 | 304.6 |
| 132.5° | 324.2 | 324.3 | 324.4 | 324.4  | 324.1 | 323.4 | 322.8 | 322.1 | 321.5 | 320.7 | 319.9 |
| 135°   | 338.3 | 338.5 | 338.6 | 338.7  | 338.3 | 337.6 | 336.9 | 336.1 | 335.4 | 334.8 | 334.1 |
| 137.5° | 351.5 | 351.7 | 351.9 | 352.0  | 351.6 | 350.9 | 350.2 | 349.5 | 348.8 | 348.1 | 347.3 |
| 140°   | 363.8 | 364.2 | 364.5 | 364.7  | 364.4 | 363.7 | 363.1 | 362.4 | 361.8 | 361.0 | 360.2 |
| 142.5° | 375.5 | 375.9 | 376.2 | 376.4  | 376.1 | 375.5 | 375.0 | 374.4 | 373.8 | 372.9 | 371.9 |
| 145°   | 386.3 | 386.7 | 387.0 | 387.2  | 386.9 | 386.4 | 385.9 | 385.4 | 384.9 | 383.7 | 382.5 |
| 147.5° | 395.9 | 396.2 | 396.5 | 396.6  | 396.4 | 396.1 | 395.7 | 395.4 | 395.0 | 393.8 | 392.6 |
| 150°   | 404.8 | 405.2 | 405.5 | 405.7  | 405.5 | 405.1 | 404.6 | 404.2 | 403.8 | 402.6 | 401.5 |
| 152.5° | 412.6 | 413.1 | 413.6 | 413.9  | 413.7 | 413.2 | 412.8 | 412.3 | 411.9 | 410.8 | 409.7 |
| 155°   | 419.6 | 420.1 | 420.7 | 421.0  | 420.8 | 420.4 | 419.9 | 419.5 | 419.1 | 418.2 | 417.4 |
| 157.5° | 426.1 | 426.6 | 427.2 | 427.5  | 427.2 | 426.7 | 426.2 | 425.7 | 425.2 | 424.6 | 423.9 |
| 160°   | 431.5 | 432.0 | 432.5 | 432.7  | 432.5 | 432.1 | 431.6 | 431.2 | 430.8 | 430.4 | 429.9 |
| 162.5° | 436.3 | 436.9 | 437.6 | 437.9  | 437.7 | 437.2 | 436.7 | 436.2 | 435.7 | 435.3 | 434.9 |
| 165°   | 440.6 | 441.1 | 441.6 | 441.8  | 441.6 | 441.1 | 440.6 | 440.1 | 439.6 | 439.4 | 439.2 |
| 167.5° | 443.8 | 444.4 | 445.1 | 445.4  | 445.1 | 444.6 | 444.1 | 443.6 | 443.1 | 442.9 | 442.7 |
| 170°   | 446.4 | 447.0 | 447.7 | 448.0  | 447.7 | 447.2 | 446.7 | 446.2 | 445.7 | 445.6 | 445.4 |
| 172.5° | 448.3 | 449.0 | 449.7 | 450.0  | 449.7 | 449.2 | 448.7 | 448.2 | 447.7 | 447.5 | 447.4 |
| 175°   | 449.5 | 450.2 | 450.9 | 451.3  | 451.0 | 450.5 | 450.0 | 449.5 | 449.0 | 448.8 | 448.7 |
| 177.5° | 450.0 | 450.6 | 451.3 | 451.6  | 451.3 | 450.8 | 450.3 | 449.8 | 449.3 | 449.2 | 449.2 |
| 180°   | 449.6 | 449.6 | 449.6 | 449.6  | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1370.2 | 1365.0 | 1361.9 | 1364.0 | 1357.8 | 1342.4 | 1342.4 | 1347.6 | 1341.4 | 1335.3 | 1326.0 |
| 5°     | 1408.1 | 1397.9 | 1391.7 | 1390.7 | 1376.3 | 1351.7 | 1346.6 | 1341.4 | 1328.1 | 1313.7 | 1298.3 |
| 7.5°   | 1445.1 | 1426.6 | 1416.3 | 1409.2 | 1388.6 | 1356.8 | 1343.5 | 1332.2 | 1310.6 | 1289.1 | 1269.6 |
| 10°    | 1475.9 | 1449.2 | 1436.9 | 1425.6 | 1398.9 | 1358.9 | 1337.3 | 1316.8 | 1289.1 | 1261.4 | 1236.7 |
| 12.5°  | 1500.5 | 1469.7 | 1454.3 | 1437.9 | 1405.1 | 1352.7 | 1326.0 | 1293.2 | 1265.5 | 1228.5 | 1203.9 |
| 15°    | 1541.6 | 1477.9 | 1463.6 | 1448.2 | 1414.3 | 1342.4 | 1309.6 | 1272.7 | 1234.7 | 1185.4 | 1158.7 |
| 17.5°  | 1574.4 | 1489.2 | 1488.2 | 1455.3 | 1411.2 | 1338.3 | 1288.1 | 1239.8 | 1198.8 | 1149.5 | 1107.4 |
| 20°    | 1593.9 | 1506.7 | 1490.2 | 1456.4 | 1400.9 | 1310.6 | 1258.3 | 1204.9 | 1160.8 | 1101.3 | 1059.2 |
| 22.5°  | 1610.3 | 1531.3 | 1488.2 | 1447.1 | 1379.4 | 1301.4 | 1224.4 | 1174.1 | 1113.6 | 1048.9 | 1008.9 |
| 25°    | 1616.5 | 1536.4 | 1491.3 | 1444.1 | 1364.0 | 1274.7 | 1187.5 | 1133.1 | 1065.3 | 1006.8 | 952.4  |
| 27.5°  | 1617.5 | 1535.4 | 1480.0 | 1430.7 | 1342.4 | 1239.8 | 1150.5 | 1093.0 | 1018.1 | 950.4  | 896.0  |
| 30°    | 1607.2 | 1524.1 | 1473.8 | 1420.5 | 1321.9 | 1208.0 | 1105.4 | 1041.7 | 961.7  | 893.9  | 837.5  |
| 32.5°  | 1576.5 | 1501.5 | 1460.5 | 1402.0 | 1295.2 | 1163.9 | 1062.3 | 991.4  | 907.3  | 840.6  | 786.2  |
| 35°    | 1525.1 | 1473.8 | 1428.7 | 1374.3 | 1260.3 | 1122.8 | 1019.2 | 936.0  | 850.8  | 787.2  | 735.9  |
| 37.5°  | 1461.5 | 1433.8 | 1391.7 | 1338.3 | 1220.3 | 1085.9 | 970.9  | 878.5  | 793.4  | 731.8  | 681.5  |
| 40°    | 1375.3 | 1382.5 | 1341.4 | 1293.2 | 1173.1 | 1035.6 | 908.3  | 820.0  | 740.0  | 682.5  | 633.2  |
| 42.5°  | 1281.9 | 1311.7 | 1288.1 | 1241.9 | 1120.8 | 980.2  | 862.1  | 764.6  | 686.6  | 627.1  | 586.0  |
| 45°    | 1181.3 | 1232.6 | 1218.3 | 1184.4 | 1066.4 | 921.7  | 796.4  | 702.0  | 633.2  | 575.8  | 539.9  |
| 47.5°  | 1071.5 | 1144.4 | 1144.4 | 1119.7 | 1005.8 | 863.1  | 740.0  | 643.5  | 575.8  | 534.7  | 499.8  |
| 50°    | 959.6  | 1041.7 | 1055.1 | 1038.7 | 938.1  | 796.4  | 671.2  | 584.0  | 525.5  | 485.5  | 459.8  |
| 52.5°  | 842.6  | 938.1  | 962.7  | 954.5  | 866.2  | 732.8  | 614.8  | 529.6  | 476.2  | 441.3  | 418.7  |
| 55°    | 730.8  | 841.6  | 868.3  | 871.4  | 789.3  | 663.0  | 552.2  | 477.2  | 425.9  | 402.3  | 382.8  |
| 57.5°  | 625.0  | 731.8  | 761.5  | 766.7  | 711.3  | 599.4  | 493.7  | 428.0  | 381.8  | 362.3  | 346.9  |
| 60°    | 534.7  | 624.0  | 663.0  | 674.3  | 626.1  | 525.5  | 439.3  | 375.6  | 340.7  | 322.3  | 307.9  |
| 62.5°  | 460.8  | 532.7  | 573.7  | 576.8  | 555.2  | 460.8  | 382.8  | 329.5  | 299.7  | 283.3  | 276.1  |
| 65°    | 389.0  | 453.6  | 478.3  | 490.6  | 473.1  | 399.2  | 330.5  | 286.3  | 262.7  | 248.4  | 241.2  |
| 67.5°  | 331.5  | 372.6  | 393.1  | 409.5  | 392.1  | 336.6  | 281.2  | 245.3  | 227.8  | 213.5  | 209.4  |
| 70°    | 272.0  | 305.8  | 321.2  | 337.7  | 322.3  | 280.2  | 240.2  | 207.3  | 191.9  | 180.6  | 175.5  |
| 72.5°  | 217.6  | 244.3  | 258.6  | 268.9  | 259.7  | 224.8  | 191.9  | 169.3  | 158.1  | 149.8  | 146.8  |
| 75°    | 172.4  | 190.9  | 199.1  | 206.3  | 202.2  | 175.5  | 155.0  | 136.5  | 126.2  | 119.1  | 117.0  |
| 77.5°  | 131.4  | 144.7  | 154.0  | 156.0  | 150.9  | 133.4  | 116.0  | 104.7  | 96.5   | 92.4   | 90.3   |
| 80°    | 93.4   | 101.6  | 106.7  | 109.8  | 104.7  | 97.5   | 85.2   | 77.0   | 69.8   | 64.7   | 63.6   |
| 82.5°  | 62.6   | 66.7   | 70.8   | 69.8   | 67.7   | 61.6   | 54.4   | 50.3   | 47.2   | 43.1   | 43.1   |
| 85°    | 35.9   | 36.9   | 39.0   | 40.0   | 39.0   | 34.9   | 30.8   | 28.7   | 26.7   | 23.6   | 23.6   |
| 87.5°  | 15.4   | 16.4   | 16.4   | 17.4   | 15.4   | 15.4   | 13.3   | 11.3   | 11.3   | 10.3   | 9.2    |
| 90°    | 4.8    | 4.2    | 3.9    | 3.5    | 2.7    | 1.9    | 1.1    | 0.3    | 1.1    | 1.9    | 2.7    |
| 92.5°  | 7.1    | 6.9    | 6.8    | 6.9    | 7.2    | 7.5    | 7.8    | 8.1    | 7.8    | 7.5    | 7.2    |
| 95°    | 11.2   | 10.7   | 10.4   | 11.6   | 14.0   | 16.3   | 18.7   | 21.1   | 18.7   | 16.3   | 14.0   |
| 97.5°  | 13.1   | 12.0   | 11.4   | 14.4   | 20.3   | 26.2   | 32.2   | 38.1   | 32.2   | 26.2   | 20.3   |
| 100°   | 14.8   | 13.6   | 13.0   | 18.0   | 27.9   | 37.8   | 47.7   | 57.6   | 47.7   | 37.8   | 27.9   |
| 102.5° | 58.7   | 71.8   | 78.4   | 78.5   | 78.6   | 78.8   | 78.9   | 79.1   | 78.9   | 78.8   | 78.6   |
| 105°   | 79.1   | 98.8   | 108.7  | 107.6  | 105.4  | 103.3  | 101.1  | 98.9   | 101.1  | 103.3  | 105.4  |
| 107.5° | 93.6   | 117.9  | 130.1  | 129.2  | 127.4  | 125.6  | 123.8  | 122.0  | 123.8  | 125.6  | 127.4  |
| 110°   | 119.6  | 140.5  | 151.0  | 150.2  | 148.7  | 147.2  | 145.6  | 144.1  | 145.6  | 147.2  | 148.7  |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.0 | 170.2 | 170.8  | 170.2 | 168.9 | 167.6 | 166.3 | 165.0 | 166.3 | 167.6 | 168.9 |
| 115°   | 195.3 | 193.5 | 192.6  | 192.0 | 190.8 | 189.5 | 188.3 | 187.1 | 188.3 | 189.5 | 190.8 |
| 117.5° | 214.6 | 213.4 | 212.8  | 212.1 | 210.6 | 209.2 | 207.7 | 206.3 | 207.7 | 209.2 | 210.6 |
| 120°   | 234.6 | 233.3 | 232.6  | 232.1 | 231.0 | 229.9 | 228.9 | 227.8 | 228.9 | 229.9 | 231.0 |
| 122.5° | 253.4 | 251.9 | 251.2  | 250.6 | 249.5 | 248.3 | 247.2 | 246.0 | 247.2 | 248.3 | 249.5 |
| 125°   | 270.8 | 269.4 | 268.7  | 268.2 | 267.3 | 266.4 | 265.4 | 264.5 | 265.4 | 266.4 | 267.3 |
| 127.5° | 287.6 | 286.5 | 286.0  | 285.5 | 284.5 | 283.4 | 282.4 | 281.4 | 282.4 | 283.4 | 284.5 |
| 130°   | 303.8 | 303.0 | 302.6  | 302.0 | 300.9 | 299.7 | 298.6 | 297.4 | 298.6 | 299.7 | 300.9 |
| 132.5° | 319.1 | 318.3 | 317.9  | 317.4 | 316.5 | 315.5 | 314.6 | 313.6 | 314.6 | 315.5 | 316.5 |
| 135°   | 333.5 | 332.8 | 332.5  | 331.9 | 330.8 | 329.6 | 328.5 | 327.3 | 328.5 | 329.6 | 330.8 |
| 137.5° | 346.6 | 345.9 | 345.5  | 345.1 | 344.2 | 343.3 | 342.5 | 341.6 | 342.5 | 343.3 | 344.2 |
| 140°   | 359.4 | 358.6 | 358.2  | 357.9 | 357.3 | 356.8 | 356.2 | 355.6 | 356.2 | 356.8 | 357.3 |
| 142.5° | 371.0 | 370.1 | 369.6  | 369.3 | 368.8 | 368.3 | 367.8 | 367.3 | 367.8 | 368.3 | 368.8 |
| 145°   | 381.2 | 380.0 | 379.4  | 379.4 | 379.5 | 379.6 | 379.6 | 379.7 | 379.6 | 379.6 | 379.5 |
| 147.5° | 391.3 | 390.1 | 389.5  | 389.6 | 389.8 | 390.0 | 390.2 | 390.4 | 390.2 | 390.0 | 389.8 |
| 150°   | 400.3 | 399.2 | 398.6  | 398.8 | 399.3 | 399.8 | 400.3 | 400.8 | 400.3 | 399.8 | 399.3 |
| 152.5° | 408.6 | 407.5 | 407.0  | 407.3 | 407.9 | 408.4 | 409.0 | 409.6 | 409.0 | 408.4 | 407.9 |
| 155°   | 416.5 | 415.6 | 415.2  | 415.5 | 416.2 | 416.8 | 417.5 | 418.1 | 417.5 | 416.8 | 416.2 |
| 157.5° | 423.3 | 422.6 | 422.3  | 422.6 | 423.2 | 423.7 | 424.3 | 424.9 | 424.3 | 423.7 | 423.2 |
| 160°   | 429.5 | 429.0 | 428.8  | 429.0 | 429.5 | 429.9 | 430.4 | 430.8 | 430.4 | 429.9 | 429.5 |
| 162.5° | 434.6 | 434.2 | 434.0  | 434.2 | 434.7 | 435.1 | 435.6 | 436.0 | 435.6 | 435.1 | 434.7 |
| 165°   | 438.9 | 438.7 | 438.6  | 438.8 | 439.2 | 439.7 | 440.1 | 440.5 | 440.1 | 439.7 | 439.2 |
| 167.5° | 442.5 | 442.3 | 442.2  | 442.4 | 442.8 | 443.3 | 443.7 | 444.1 | 443.7 | 443.3 | 442.8 |
| 170°   | 445.3 | 445.2 | 445.1  | 445.3 | 445.7 | 446.2 | 446.6 | 447.0 | 446.6 | 446.2 | 445.7 |
| 172.5° | 447.2 | 447.1 | 447.0  | 447.2 | 447.7 | 448.1 | 448.6 | 449.0 | 448.6 | 448.1 | 447.7 |
| 175°   | 448.5 | 448.4 | 448.3  | 448.6 | 449.1 | 449.6 | 450.1 | 450.6 | 450.1 | 449.6 | 449.1 |
| 177.5° | 449.1 | 449.0 | 449.0  | 449.3 | 449.8 | 450.3 | 450.8 | 451.3 | 450.8 | 450.3 | 449.8 |
| 180°   | 449.6 | 449.6 | 449.6  | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1320.9 | 1326.0 | 1325.0 | 1314.7 | 1303.4 | 1294.2 | 1276.8 | 1278.8 | 1272.7 | 1273.7 | 1279.8 |
| 5°     | 1288.1 | 1288.1 | 1283.9 | 1269.6 | 1251.1 | 1240.8 | 1221.3 | 1216.2 | 1203.9 | 1202.9 | 1201.8 |
| 7.5°   | 1253.2 | 1248.0 | 1242.9 | 1222.4 | 1199.8 | 1183.4 | 1156.7 | 1150.5 | 1138.2 | 1130.0 | 1125.9 |
| 10°    | 1212.1 | 1204.9 | 1194.7 | 1171.1 | 1143.3 | 1122.8 | 1095.1 | 1086.9 | 1063.3 | 1053.0 | 1046.9 |
| 12.5°  | 1166.9 | 1162.8 | 1146.4 | 1126.9 | 1081.8 | 1059.2 | 1019.2 | 1027.4 | 1003.8 | 983.2  | 980.2  |
| 15°    | 1121.8 | 1106.4 | 1097.2 | 1065.3 | 1010.9 | 1000.7 | 968.9  | 952.4  | 930.9  | 914.5  | 914.5  |
| 17.5°  | 1077.7 | 1054.0 | 1033.5 | 999.7  | 959.6  | 930.9  | 907.3  | 899.1  | 872.4  | 856.0  | 852.9  |
| 20°    | 1019.2 | 992.5  | 987.3  | 939.1  | 911.4  | 879.6  | 857.0  | 836.5  | 817.0  | 809.8  | 804.6  |
| 22.5°  | 963.7  | 932.9  | 924.7  | 883.7  | 856.0  | 824.1  | 801.6  | 787.2  | 772.8  | 767.7  | 758.5  |
| 25°    | 904.2  | 885.7  | 873.4  | 829.3  | 798.5  | 768.7  | 753.3  | 743.1  | 729.7  | 728.7  | 722.5  |
| 27.5°  | 846.7  | 829.3  | 817.0  | 774.9  | 752.3  | 724.6  | 712.3  | 701.0  | 693.8  | 690.7  | 687.6  |
| 30°    | 797.5  | 778.0  | 763.6  | 732.8  | 705.1  | 682.5  | 672.3  | 665.1  | 661.0  | 655.8  | 654.8  |
| 32.5°  | 743.1  | 731.8  | 712.3  | 688.7  | 667.1  | 645.6  | 639.4  | 634.3  | 628.1  | 626.1  | 625.0  |
| 35°    | 696.9  | 681.5  | 669.2  | 642.5  | 633.2  | 614.8  | 607.6  | 603.5  | 595.3  | 593.2  | 591.2  |
| 37.5°  | 651.7  | 637.4  | 624.0  | 607.6  | 590.1  | 579.9  | 575.8  | 569.6  | 565.5  | 566.5  | 564.5  |
| 40°    | 606.6  | 595.3  | 585.0  | 567.6  | 557.3  | 552.2  | 544.0  | 537.8  | 535.7  | 536.8  | 535.7  |
| 42.5°  | 562.4  | 552.2  | 546.0  | 532.7  | 522.4  | 517.3  | 512.1  | 506.0  | 509.1  | 509.1  | 512.1  |
| 45°    | 522.4  | 513.2  | 509.1  | 498.8  | 492.6  | 484.4  | 479.3  | 478.3  | 482.4  | 481.4  | 481.4  |
| 47.5°  | 481.4  | 478.3  | 473.1  | 463.9  | 455.7  | 450.6  | 449.5  | 449.5  | 453.6  | 455.7  | 454.7  |
| 50°    | 449.5  | 443.4  | 437.2  | 430.0  | 423.9  | 421.8  | 418.7  | 420.8  | 424.9  | 424.9  | 427.0  |
| 52.5°  | 409.5  | 405.4  | 403.4  | 397.2  | 393.1  | 393.1  | 393.1  | 394.1  | 397.2  | 400.3  | 399.2  |
| 55°    | 374.6  | 371.5  | 369.5  | 366.4  | 361.3  | 362.3  | 361.3  | 363.3  | 366.4  | 369.5  | 371.5  |
| 57.5°  | 337.7  | 336.6  | 334.6  | 329.5  | 329.5  | 328.4  | 331.5  | 332.5  | 337.7  | 339.7  | 342.8  |
| 60°    | 304.8  | 301.7  | 301.7  | 297.6  | 297.6  | 297.6  | 300.7  | 303.8  | 307.9  | 308.9  | 311.0  |
| 62.5°  | 269.9  | 269.9  | 268.9  | 265.8  | 265.8  | 268.9  | 269.9  | 274.0  | 276.1  | 276.1  | 279.2  |
| 65°    | 237.1  | 236.1  | 235.0  | 236.1  | 237.1  | 237.1  | 240.2  | 242.2  | 244.3  | 245.3  | 246.3  |
| 67.5°  | 204.2  | 203.2  | 205.3  | 204.2  | 206.3  | 210.4  | 209.4  | 212.5  | 215.5  | 215.5  | 216.6  |
| 70°    | 173.5  | 175.5  | 174.5  | 176.5  | 175.5  | 177.6  | 180.6  | 181.7  | 181.7  | 182.7  | 185.8  |
| 72.5°  | 144.7  | 144.7  | 144.7  | 143.7  | 144.7  | 146.8  | 148.8  | 149.8  | 151.9  | 152.9  | 156.0  |
| 75°    | 117.0  | 117.0  | 114.9  | 117.0  | 117.0  | 119.1  | 121.1  | 121.1  | 121.1  | 123.2  | 126.2  |
| 77.5°  | 88.3   | 89.3   | 88.3   | 90.3   | 90.3   | 91.3   | 93.4   | 92.4   | 94.4   | 95.4   | 96.5   |
| 80°    | 64.7   | 63.6   | 63.6   | 63.6   | 64.7   | 64.7   | 66.7   | 67.7   | 67.7   | 70.8   | 68.8   |
| 82.5°  | 41.1   | 42.1   | 41.1   | 42.1   | 42.1   | 43.1   | 42.1   | 43.1   | 44.1   | 46.2   | 45.2   |
| 85°    | 23.6   | 22.6   | 22.6   | 23.6   | 22.6   | 22.6   | 23.6   | 22.6   | 23.6   | 22.6   | 23.6   |
| 87.5°  | 9.2    | 8.2    | 8.2    | 8.2    | 8.2    | 7.2    | 7.2    | 6.2    | 6.2    | 6.2    | 5.1    |
| 90°    | 3.5    | 3.9    | 4.2    | 4.8    | 5.3    | 5.9    | 6.5    | 6.9    | 7.2    | 7.6    | 7.9    |
| 92.5°  | 6.9    | 6.8    | 6.9    | 7.1    | 7.4    | 7.6    | 7.8    | 8.0    | 8.1    | 8.3    | 8.4    |
| 95°    | 11.6   | 10.4   | 10.7   | 11.2   | 11.7   | 12.2   | 12.7   | 13.1   | 13.4   | 13.8   | 14.1   |
| 97.5°  | 14.4   | 11.4   | 12.0   | 13.1   | 14.3   | 15.4   | 16.6   | 16.8   | 17.0   | 17.3   | 17.5   |
| 100°   | 18.0   | 13.0   | 13.6   | 14.8   | 16.1   | 17.3   | 18.5   | 19.1   | 19.7   | 20.2   | 20.8   |
| 102.5° | 78.5   | 78.4   | 71.8   | 58.7   | 45.5   | 32.4   | 19.2   | 20.0   | 20.8   | 21.6   | 22.4   |
| 105°   | 107.6  | 108.7  | 98.8   | 79.1   | 59.3   | 39.6   | 19.8   | 20.6   | 21.4   | 22.2   | 23.0   |
| 107.5° | 129.2  | 130.1  | 117.9  | 93.6   | 69.2   | 44.9   | 20.5   | 21.3   | 22.1   | 22.9   | 23.7   |
| 110°   | 150.2  | 151.0  | 140.5  | 119.6  | 98.7   | 77.8   | 56.9   | 49.7   | 42.5   | 35.2   | 28.0   |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 170.2 | 170.8  | 170.2 | 169.0 | 167.7 | 166.5 | 165.3 | 134.1 | 103.0 | 71.8  | 40.7  |
| 115°   | 192.0 | 192.6  | 193.5 | 195.3 | 197.1 | 198.9 | 200.7 | 167.2 | 133.8 | 100.3 | 66.8  |
| 117.5° | 212.1 | 212.8  | 213.4 | 214.6 | 215.9 | 217.1 | 218.3 | 208.0 | 197.6 | 187.3 | 177.0 |
| 120°   | 232.1 | 232.6  | 233.3 | 234.6 | 235.9 | 237.2 | 238.5 | 239.4 | 240.2 | 241.1 | 242.0 |
| 122.5° | 250.6 | 251.2  | 251.9 | 253.4 | 254.8 | 256.3 | 257.7 | 258.1 | 258.5 | 259.0 | 259.4 |
| 125°   | 268.2 | 268.7  | 269.4 | 270.8 | 272.1 | 273.5 | 274.9 | 275.4 | 275.9 | 276.4 | 276.9 |
| 127.5° | 285.5 | 286.0  | 286.5 | 287.6 | 288.7 | 289.8 | 290.9 | 291.6 | 292.3 | 293.0 | 293.7 |
| 130°   | 302.0 | 302.6  | 303.0 | 303.8 | 304.6 | 305.4 | 306.2 | 307.0 | 307.8 | 308.5 | 309.3 |
| 132.5° | 317.4 | 317.9  | 318.3 | 319.1 | 319.9 | 320.7 | 321.5 | 322.1 | 322.8 | 323.4 | 324.1 |
| 135°   | 331.9 | 332.5  | 332.8 | 333.5 | 334.1 | 334.8 | 335.4 | 336.1 | 336.9 | 337.6 | 338.3 |
| 137.5° | 345.1 | 345.5  | 345.9 | 346.6 | 347.3 | 348.1 | 348.8 | 349.5 | 350.2 | 350.9 | 351.6 |
| 140°   | 357.9 | 358.2  | 358.6 | 359.4 | 360.2 | 361.0 | 361.8 | 362.4 | 363.1 | 363.7 | 364.4 |
| 142.5° | 369.3 | 369.6  | 370.1 | 371.0 | 371.9 | 372.9 | 373.8 | 374.4 | 375.0 | 375.5 | 376.1 |
| 145°   | 379.4 | 379.4  | 380.0 | 381.2 | 382.5 | 383.7 | 384.9 | 385.4 | 385.9 | 386.4 | 386.9 |
| 147.5° | 389.6 | 389.5  | 390.1 | 391.3 | 392.6 | 393.8 | 395.0 | 395.4 | 395.7 | 396.1 | 396.4 |
| 150°   | 398.8 | 398.6  | 399.2 | 400.3 | 401.5 | 402.6 | 403.8 | 404.2 | 404.6 | 405.1 | 405.5 |
| 152.5° | 407.3 | 407.0  | 407.5 | 408.6 | 409.7 | 410.8 | 411.9 | 412.3 | 412.8 | 413.2 | 413.7 |
| 155°   | 415.5 | 415.2  | 415.6 | 416.5 | 417.4 | 418.2 | 419.1 | 419.5 | 419.9 | 420.4 | 420.8 |
| 157.5° | 422.6 | 422.3  | 422.6 | 423.3 | 423.9 | 424.6 | 425.2 | 425.7 | 426.2 | 426.7 | 427.2 |
| 160°   | 429.0 | 428.8  | 429.0 | 429.5 | 429.9 | 430.4 | 430.8 | 431.2 | 431.6 | 432.1 | 432.5 |
| 162.5° | 434.2 | 434.0  | 434.2 | 434.6 | 434.9 | 435.3 | 435.7 | 436.2 | 436.7 | 437.2 | 437.7 |
| 165°   | 438.8 | 438.6  | 438.7 | 438.9 | 439.2 | 439.4 | 439.6 | 440.1 | 440.6 | 441.1 | 441.6 |
| 167.5° | 442.4 | 442.2  | 442.3 | 442.5 | 442.7 | 442.9 | 443.1 | 443.6 | 444.1 | 444.6 | 445.1 |
| 170°   | 445.3 | 445.1  | 445.2 | 445.3 | 445.4 | 445.6 | 445.7 | 446.2 | 446.7 | 447.2 | 447.7 |
| 172.5° | 447.2 | 447.0  | 447.1 | 447.2 | 447.4 | 447.5 | 447.7 | 448.2 | 448.7 | 449.2 | 449.7 |
| 175°   | 448.6 | 448.3  | 448.4 | 448.5 | 448.7 | 448.8 | 449.0 | 449.5 | 450.0 | 450.5 | 451.0 |
| 177.5° | 449.3 | 449.0  | 449.0 | 449.1 | 449.2 | 449.2 | 449.3 | 449.8 | 450.3 | 450.8 | 451.3 |
| 180°   | 449.6 | 449.6  | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1272.7 | 1275.7 | 1268.6 | 1266.5 | 1268.6 | 1261.4 | 1263.4 | 1265.5 | 1265.5 | 1268.6 | 1270.6 |
| 5°     | 1198.8 | 1194.7 | 1187.5 | 1185.4 | 1183.4 | 1186.4 | 1184.4 | 1187.5 | 1188.5 | 1195.7 | 1196.7 |
| 7.5°   | 1125.9 | 1119.7 | 1113.6 | 1107.4 | 1105.4 | 1100.2 | 1105.4 | 1105.4 | 1112.5 | 1110.5 | 1115.6 |
| 10°    | 1039.7 | 1038.7 | 1030.4 | 1027.4 | 1023.3 | 1015.0 | 1026.3 | 1023.3 | 1028.4 | 1037.6 | 1039.7 |
| 12.5°  | 976.0  | 964.8  | 969.9  | 955.5  | 960.7  | 952.4  | 953.5  | 953.5  | 961.7  | 962.7  | 960.7  |
| 15°    | 915.5  | 906.3  | 892.9  | 886.8  | 883.7  | 879.6  | 892.9  | 893.9  | 887.8  | 902.2  | 897.0  |
| 17.5°  | 853.9  | 853.9  | 841.6  | 838.5  | 830.3  | 834.4  | 832.4  | 833.4  | 831.3  | 841.6  | 846.7  |
| 20°    | 800.5  | 795.4  | 791.3  | 792.3  | 782.1  | 780.0  | 778.0  | 780.0  | 787.2  | 794.4  | 796.4  |
| 22.5°  | 757.4  | 754.4  | 744.1  | 746.1  | 737.9  | 741.0  | 739.0  | 744.1  | 745.1  | 745.1  | 752.3  |
| 25°    | 716.4  | 712.3  | 713.3  | 709.2  | 706.1  | 706.1  | 703.0  | 706.1  | 710.2  | 712.3  | 713.3  |
| 27.5°  | 685.6  | 682.5  | 677.4  | 674.3  | 676.4  | 671.2  | 675.3  | 678.4  | 678.4  | 676.4  | 678.4  |
| 30°    | 648.6  | 650.7  | 650.7  | 640.4  | 644.5  | 642.5  | 645.6  | 647.6  | 647.6  | 648.6  | 646.6  |
| 32.5°  | 624.0  | 617.9  | 616.8  | 615.8  | 615.8  | 611.7  | 611.7  | 614.8  | 615.8  | 616.8  | 619.9  |
| 35°    | 591.2  | 591.2  | 586.0  | 589.1  | 585.0  | 586.0  | 585.0  | 586.0  | 588.1  | 585.0  | 588.1  |
| 37.5°  | 561.4  | 562.4  | 560.4  | 562.4  | 563.5  | 561.4  | 559.4  | 563.5  | 561.4  | 561.4  | 559.4  |
| 40°    | 535.7  | 534.7  | 535.7  | 535.7  | 535.7  | 536.8  | 534.7  | 534.7  | 534.7  | 532.7  | 530.6  |
| 42.5°  | 514.2  | 508.0  | 510.1  | 511.1  | 508.0  | 508.0  | 509.1  | 508.0  | 511.1  | 505.0  | 505.0  |
| 45°    | 483.4  | 481.4  | 482.4  | 482.4  | 484.4  | 481.4  | 483.4  | 484.4  | 481.4  | 480.3  | 478.3  |
| 47.5°  | 455.7  | 457.7  | 455.7  | 457.7  | 457.7  | 459.8  | 455.7  | 456.7  | 457.7  | 453.6  | 450.6  |
| 50°    | 428.0  | 428.0  | 431.1  | 430.0  | 431.1  | 429.0  | 429.0  | 428.0  | 429.0  | 427.0  | 423.9  |
| 52.5°  | 402.3  | 399.2  | 404.4  | 403.4  | 402.3  | 401.3  | 400.3  | 401.3  | 399.2  | 397.2  | 397.2  |
| 55°    | 370.5  | 370.5  | 373.6  | 374.6  | 374.6  | 372.6  | 370.5  | 371.5  | 370.5  | 369.5  | 368.5  |
| 57.5°  | 344.8  | 340.7  | 342.8  | 343.8  | 343.8  | 340.7  | 342.8  | 340.7  | 340.7  | 341.8  | 338.7  |
| 60°    | 312.0  | 312.0  | 310.0  | 313.0  | 313.0  | 311.0  | 311.0  | 312.0  | 310.0  | 308.9  | 307.9  |
| 62.5°  | 277.1  | 278.1  | 281.2  | 282.2  | 283.3  | 281.2  | 279.2  | 280.2  | 280.2  | 277.1  | 278.1  |
| 65°    | 247.3  | 249.4  | 253.5  | 252.5  | 250.4  | 251.5  | 249.4  | 250.4  | 247.3  | 248.4  | 245.3  |
| 67.5°  | 218.6  | 217.6  | 218.6  | 218.6  | 220.7  | 219.6  | 217.6  | 217.6  | 216.6  | 219.6  | 216.6  |
| 70°    | 187.8  | 187.8  | 187.8  | 187.8  | 188.8  | 189.9  | 187.8  | 185.8  | 186.8  | 184.7  | 183.7  |
| 72.5°  | 156.0  | 157.0  | 156.0  | 158.1  | 155.0  | 157.0  | 157.0  | 156.0  | 155.0  | 155.0  | 155.0  |
| 75°    | 126.2  | 128.3  | 125.2  | 126.2  | 125.2  | 127.3  | 126.2  | 126.2  | 124.2  | 123.2  | 124.2  |
| 77.5°  | 96.5   | 97.5   | 95.4   | 96.5   | 95.4   | 96.5   | 96.5   | 95.4   | 95.4   | 95.4   | 95.4   |
| 80°    | 68.8   | 69.8   | 68.8   | 67.7   | 66.7   | 68.8   | 66.7   | 67.7   | 68.8   | 67.7   | 69.8   |
| 82.5°  | 44.1   | 44.1   | 43.1   | 44.1   | 42.1   | 42.1   | 43.1   | 43.1   | 42.1   | 44.1   | 42.1   |
| 85°    | 21.6   | 21.6   | 23.6   | 21.6   | 20.5   | 20.5   | 20.5   | 21.6   | 20.5   | 22.6   | 21.6   |
| 87.5°  | 5.1    | 4.1    | 5.1    | 5.1    | 4.1    | 4.1    | 5.1    | 4.1    | 5.1    | 6.2    | 4.1    |
| 90°    | 8.1    | 8.2    | 8.3    | 8.5    | 8.6    | 8.8    | 8.6    | 8.5    | 8.3    | 8.2    | 8.1    |
| 92.5°  | 8.5    | 8.5    | 8.6    | 8.7    | 8.7    | 8.8    | 8.7    | 8.7    | 8.6    | 8.5    | 8.5    |
| 95°    | 14.3   | 14.3   | 14.2   | 14.1   | 14.1   | 14.0   | 14.1   | 14.1   | 14.2   | 14.3   | 14.3   |
| 97.5°  | 17.6   | 17.6   | 17.7   | 17.8   | 17.8   | 17.9   | 17.8   | 17.8   | 17.7   | 17.6   | 17.6   |
| 100°   | 21.1   | 21.2   | 21.3   | 21.5   | 21.6   | 21.8   | 21.6   | 21.5   | 21.3   | 21.2   | 21.1   |
| 102.5° | 22.8   | 22.9   | 23.1   | 23.4   | 23.6   | 23.8   | 23.6   | 23.4   | 23.1   | 22.9   | 22.8   |
| 105°   | 23.4   | 23.5   | 23.8   | 24.1   | 24.4   | 24.7   | 24.4   | 24.1   | 23.8   | 23.5   | 23.4   |
| 107.5° | 24.1   | 24.2   | 24.5   | 24.8   | 25.1   | 25.4   | 25.1   | 24.8   | 24.5   | 24.2   | 24.1   |
| 110°   | 24.4   | 24.5   | 24.8   | 25.1   | 25.4   | 25.7   | 25.4   | 25.1   | 24.8   | 24.5   | 24.4   |



TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 25.1   | 25.2  | 25.4  | 25.6  | 25.8  | 26.0  | 25.8  | 25.6  | 25.4  | 25.2  | 25.1   |
| 115°   | 50.1   | 47.5  | 42.3  | 37.1  | 31.9  | 26.7  | 31.9  | 37.1  | 42.3  | 47.5  | 50.1   |
| 117.5° | 171.8  | 162.3 | 143.4 | 124.4 | 105.5 | 86.5  | 105.5 | 124.4 | 143.4 | 162.3 | 171.8  |
| 120°   | 242.4  | 237.5 | 227.8 | 218.0 | 208.3 | 198.5 | 208.3 | 218.0 | 227.8 | 237.5 | 242.4  |
| 122.5° | 259.6  | 259.6 | 259.7 | 259.8 | 259.9 | 260.0 | 259.9 | 259.8 | 259.7 | 259.6 | 259.6  |
| 125°   | 277.2  | 277.3 | 277.5 | 277.8 | 278.0 | 278.2 | 278.0 | 277.8 | 277.5 | 277.3 | 277.2  |
| 127.5° | 294.1  | 294.1 | 294.2 | 294.3 | 294.4 | 294.5 | 294.4 | 294.3 | 294.2 | 294.1 | 294.1  |
| 130°   | 309.7  | 309.7 | 309.6 | 309.5 | 309.5 | 309.4 | 309.5 | 309.5 | 309.6 | 309.7 | 309.7  |
| 132.5° | 324.4  | 324.4 | 324.3 | 324.2 | 324.2 | 324.1 | 324.2 | 324.2 | 324.3 | 324.4 | 324.4  |
| 135°   | 338.7  | 338.6 | 338.5 | 338.3 | 338.2 | 338.0 | 338.2 | 338.3 | 338.5 | 338.6 | 338.7  |
| 137.5° | 352.0  | 351.9 | 351.7 | 351.5 | 351.3 | 351.1 | 351.3 | 351.5 | 351.7 | 351.9 | 352.0  |
| 140°   | 364.7  | 364.5 | 364.2 | 363.8 | 363.5 | 363.1 | 363.5 | 363.8 | 364.2 | 364.5 | 364.7  |
| 142.5° | 376.4  | 376.2 | 375.9 | 375.5 | 375.2 | 374.8 | 375.2 | 375.5 | 375.9 | 376.2 | 376.4  |
| 145°   | 387.2  | 387.0 | 386.7 | 386.3 | 386.0 | 385.6 | 386.0 | 386.3 | 386.7 | 387.0 | 387.2  |
| 147.5° | 396.6  | 396.5 | 396.2 | 395.9 | 395.6 | 395.3 | 395.6 | 395.9 | 396.2 | 396.5 | 396.6  |
| 150°   | 405.7  | 405.5 | 405.2 | 404.8 | 404.5 | 404.1 | 404.5 | 404.8 | 405.2 | 405.5 | 405.7  |
| 152.5° | 413.9  | 413.6 | 413.1 | 412.6 | 412.1 | 411.6 | 412.1 | 412.6 | 413.1 | 413.6 | 413.9  |
| 155°   | 421.0  | 420.7 | 420.1 | 419.6 | 419.0 | 418.4 | 419.0 | 419.6 | 420.1 | 420.7 | 421.0  |
| 157.5° | 427.5  | 427.2 | 426.6 | 426.1 | 425.5 | 424.9 | 425.5 | 426.1 | 426.6 | 427.2 | 427.5  |
| 160°   | 432.7  | 432.5 | 432.0 | 431.5 | 431.0 | 430.5 | 431.0 | 431.5 | 432.0 | 432.5 | 432.7  |
| 162.5° | 437.9  | 437.6 | 436.9 | 436.3 | 435.6 | 435.0 | 435.6 | 436.3 | 436.9 | 437.6 | 437.9  |
| 165°   | 441.8  | 441.6 | 441.1 | 440.6 | 440.1 | 439.6 | 440.1 | 440.6 | 441.1 | 441.6 | 441.8  |
| 167.5° | 445.4  | 445.1 | 444.4 | 443.8 | 443.1 | 442.5 | 443.1 | 443.8 | 444.4 | 445.1 | 445.4  |
| 170°   | 448.0  | 447.7 | 447.0 | 446.4 | 445.7 | 445.1 | 445.7 | 446.4 | 447.0 | 447.7 | 448.0  |
| 172.5° | 450.0  | 449.7 | 449.0 | 448.3 | 447.7 | 447.0 | 447.7 | 448.3 | 449.0 | 449.7 | 450.0  |
| 175°   | 451.3  | 450.9 | 450.2 | 449.5 | 448.7 | 448.0 | 448.7 | 449.5 | 450.2 | 450.9 | 451.3  |
| 177.5° | 451.6  | 451.3 | 450.6 | 450.0 | 449.3 | 448.7 | 449.3 | 450.0 | 450.6 | 451.3 | 451.6  |
| 180°   | 449.6  | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6  |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1267.5 | 1275.7 | 1272.7 | 1261.4 | 1274.7 | 1274.7 | 1283.9 | 1283.9 | 1295.2 | 1299.3 | 1305.5 |
| 5°     | 1195.7 | 1201.8 | 1207.0 | 1201.8 | 1211.1 | 1225.4 | 1233.7 | 1240.8 | 1256.2 | 1262.4 | 1271.6 |
| 7.5°   | 1118.7 | 1130.0 | 1135.1 | 1135.1 | 1150.5 | 1166.9 | 1183.4 | 1193.6 | 1215.2 | 1223.4 | 1232.6 |
| 10°    | 1043.8 | 1057.1 | 1067.4 | 1066.4 | 1092.0 | 1102.3 | 1122.8 | 1146.4 | 1168.0 | 1180.3 | 1193.6 |
| 12.5°  | 964.8  | 971.9  | 986.3  | 1006.8 | 1013.0 | 1031.5 | 1055.1 | 1084.8 | 1123.8 | 1135.1 | 1154.6 |
| 15°    | 899.1  | 918.6  | 929.9  | 939.1  | 953.5  | 970.9  | 996.6  | 1025.3 | 1064.3 | 1088.9 | 1109.5 |
| 17.5°  | 843.6  | 869.3  | 876.5  | 874.4  | 892.9  | 919.6  | 949.4  | 970.9  | 1005.8 | 1035.6 | 1055.1 |
| 20°    | 798.5  | 808.8  | 821.1  | 826.2  | 840.6  | 869.3  | 898.0  | 922.7  | 951.4  | 975.0  | 997.6  |
| 22.5°  | 753.3  | 761.5  | 771.8  | 781.0  | 792.3  | 808.8  | 836.5  | 867.3  | 895.0  | 917.5  | 943.2  |
| 25°    | 716.4  | 721.5  | 730.8  | 737.9  | 750.3  | 761.5  | 781.0  | 814.9  | 847.8  | 861.1  | 883.7  |
| 27.5°  | 680.5  | 684.6  | 690.7  | 698.9  | 705.1  | 716.4  | 733.8  | 761.5  | 795.4  | 808.8  | 839.5  |
| 30°    | 648.6  | 651.7  | 657.9  | 662.0  | 665.1  | 678.4  | 691.8  | 713.3  | 739.0  | 757.4  | 780.0  |
| 32.5°  | 618.9  | 622.0  | 628.1  | 629.1  | 633.2  | 640.4  | 652.8  | 672.3  | 694.8  | 710.2  | 729.7  |
| 35°    | 586.0  | 588.1  | 594.2  | 596.3  | 599.4  | 605.5  | 614.8  | 629.1  | 649.7  | 661.0  | 678.4  |
| 37.5°  | 560.4  | 559.4  | 563.5  | 566.5  | 570.6  | 573.7  | 576.8  | 591.2  | 606.6  | 616.8  | 630.2  |
| 40°    | 532.7  | 530.6  | 531.6  | 535.7  | 537.8  | 541.9  | 541.9  | 556.3  | 566.5  | 574.7  | 585.0  |
| 42.5°  | 505.0  | 503.9  | 501.9  | 503.9  | 506.0  | 507.0  | 508.0  | 518.3  | 528.6  | 535.7  | 547.0  |
| 45°    | 477.2  | 476.2  | 474.2  | 475.2  | 475.2  | 477.2  | 480.3  | 484.4  | 491.6  | 497.8  | 503.9  |
| 47.5°  | 451.6  | 449.5  | 446.5  | 445.4  | 447.5  | 447.5  | 447.5  | 451.6  | 458.8  | 460.8  | 467.0  |
| 50°    | 424.9  | 421.8  | 417.7  | 415.7  | 415.7  | 414.6  | 416.7  | 417.7  | 423.9  | 425.9  | 431.1  |
| 52.5°  | 396.2  | 394.1  | 390.0  | 385.9  | 386.9  | 384.9  | 385.9  | 386.9  | 389.0  | 392.1  | 395.1  |
| 55°    | 367.4  | 363.3  | 360.2  | 359.2  | 356.1  | 356.1  | 353.1  | 357.2  | 356.1  | 357.2  | 361.3  |
| 57.5°  | 339.7  | 335.6  | 330.5  | 328.4  | 325.3  | 324.3  | 322.3  | 321.2  | 322.3  | 325.3  | 328.4  |
| 60°    | 306.9  | 304.8  | 301.7  | 298.7  | 296.6  | 293.5  | 291.5  | 291.5  | 290.5  | 290.5  | 291.5  |
| 62.5°  | 275.1  | 274.0  | 269.9  | 268.9  | 266.8  | 264.8  | 261.7  | 259.7  | 259.7  | 261.7  | 262.7  |
| 65°    | 244.3  | 243.2  | 240.2  | 239.1  | 234.0  | 232.0  | 230.9  | 229.9  | 227.8  | 227.8  | 227.8  |
| 67.5°  | 215.5  | 212.5  | 212.5  | 207.3  | 203.2  | 201.2  | 199.1  | 198.1  | 198.1  | 198.1  | 199.1  |
| 70°    | 183.7  | 183.7  | 180.6  | 177.6  | 173.5  | 174.5  | 171.4  | 168.3  | 168.3  | 166.3  | 167.3  |
| 72.5°  | 152.9  | 151.9  | 148.8  | 147.8  | 144.7  | 141.6  | 139.6  | 141.6  | 138.6  | 137.5  | 138.6  |
| 75°    | 123.2  | 122.1  | 120.1  | 118.0  | 119.1  | 116.0  | 112.9  | 111.9  | 111.9  | 109.8  | 109.8  |
| 77.5°  | 94.4   | 96.5   | 92.4   | 91.3   | 89.3   | 87.2   | 86.2   | 85.2   | 85.2   | 85.2   | 87.2   |
| 80°    | 65.7   | 66.7   | 66.7   | 64.7   | 65.7   | 62.6   | 62.6   | 62.6   | 59.5   | 60.6   | 61.6   |
| 82.5°  | 42.1   | 42.1   | 41.1   | 42.1   | 41.1   | 41.1   | 40.0   | 40.0   | 39.0   | 39.0   | 40.0   |
| 85°    | 23.6   | 22.6   | 21.6   | 23.6   | 22.6   | 22.6   | 21.6   | 21.6   | 21.6   | 21.6   | 21.6   |
| 87.5°  | 5.1    | 6.2    | 6.2    | 6.2    | 6.2    | 7.2    | 7.2    | 7.2    | 8.2    | 8.2    | 8.2    |
| 90°    | 7.9    | 7.6    | 7.2    | 6.9    | 6.5    | 5.9    | 5.3    | 4.8    | 4.2    | 3.9    | 3.5    |
| 92.5°  | 8.4    | 8.3    | 8.1    | 8.0    | 7.8    | 7.6    | 7.4    | 7.1    | 6.9    | 6.8    | 6.9    |
| 95°    | 14.1   | 13.8   | 13.4   | 13.1   | 12.7   | 12.2   | 11.7   | 11.2   | 10.7   | 10.4   | 11.6   |
| 97.5°  | 17.5   | 17.3   | 17.0   | 16.8   | 16.6   | 15.4   | 14.3   | 13.1   | 12.0   | 11.4   | 14.4   |
| 100°   | 20.8   | 20.2   | 19.7   | 19.1   | 18.5   | 17.3   | 16.1   | 14.8   | 13.6   | 13.0   | 18.0   |
| 102.5° | 22.4   | 21.6   | 20.8   | 20.0   | 19.2   | 32.4   | 45.5   | 58.7   | 71.8   | 78.4   | 78.5   |
| 105°   | 23.0   | 22.2   | 21.4   | 20.6   | 19.8   | 39.6   | 59.3   | 79.1   | 98.8   | 108.7  | 107.6  |
| 107.5° | 23.7   | 22.9   | 22.1   | 21.3   | 20.5   | 44.9   | 69.2   | 93.6   | 117.9  | 130.1  | 129.2  |
| 110°   | 28.0   | 35.2   | 42.5   | 49.7   | 56.9   | 77.8   | 98.7   | 119.6  | 140.5  | 151.0  | 150.2  |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 40.7  | 71.8  | 103.0 | 134.1 | 165.3 | 166.5 | 167.7 | 169.0 | 170.2 | 170.8  | 170.2 |
| 115°   | 66.8  | 100.3 | 133.8 | 167.2 | 200.7 | 198.9 | 197.1 | 195.3 | 193.5 | 192.6  | 192.0 |
| 117.5° | 177.0 | 187.3 | 197.6 | 208.0 | 218.3 | 217.1 | 215.9 | 214.6 | 213.4 | 212.8  | 212.1 |
| 120°   | 242.0 | 241.1 | 240.2 | 239.4 | 238.5 | 237.2 | 235.9 | 234.6 | 233.3 | 232.6  | 232.1 |
| 122.5° | 259.4 | 259.0 | 258.5 | 258.1 | 257.7 | 256.3 | 254.8 | 253.4 | 251.9 | 251.2  | 250.6 |
| 125°   | 276.9 | 276.4 | 275.9 | 275.4 | 274.9 | 273.5 | 272.1 | 270.8 | 269.4 | 268.7  | 268.2 |
| 127.5° | 293.7 | 293.0 | 292.3 | 291.6 | 290.9 | 289.8 | 288.7 | 287.6 | 286.5 | 286.0  | 285.5 |
| 130°   | 309.3 | 308.5 | 307.8 | 307.0 | 306.2 | 305.4 | 304.6 | 303.8 | 303.0 | 302.6  | 302.0 |
| 132.5° | 324.1 | 323.4 | 322.8 | 322.1 | 321.5 | 320.7 | 319.9 | 319.1 | 318.3 | 317.9  | 317.4 |
| 135°   | 338.3 | 337.6 | 336.9 | 336.1 | 335.4 | 334.8 | 334.1 | 333.5 | 332.8 | 332.5  | 331.9 |
| 137.5° | 351.6 | 350.9 | 350.2 | 349.5 | 348.8 | 348.1 | 347.3 | 346.6 | 345.9 | 345.5  | 345.1 |
| 140°   | 364.4 | 363.7 | 363.1 | 362.4 | 361.8 | 361.0 | 360.2 | 359.4 | 358.6 | 358.2  | 357.9 |
| 142.5° | 376.1 | 375.5 | 375.0 | 374.4 | 373.8 | 372.9 | 371.9 | 371.0 | 370.1 | 369.6  | 369.3 |
| 145°   | 386.9 | 386.4 | 385.9 | 385.4 | 384.9 | 383.7 | 382.5 | 381.2 | 380.0 | 379.4  | 379.4 |
| 147.5° | 396.4 | 396.1 | 395.7 | 395.4 | 395.0 | 393.8 | 392.6 | 391.3 | 390.1 | 389.5  | 389.6 |
| 150°   | 405.5 | 405.1 | 404.6 | 404.2 | 403.8 | 402.6 | 401.5 | 400.3 | 399.2 | 398.6  | 398.8 |
| 152.5° | 413.7 | 413.2 | 412.8 | 412.3 | 411.9 | 410.8 | 409.7 | 408.6 | 407.5 | 407.0  | 407.3 |
| 155°   | 420.8 | 420.4 | 419.9 | 419.5 | 419.1 | 418.2 | 417.4 | 416.5 | 415.6 | 415.2  | 415.5 |
| 157.5° | 427.2 | 426.7 | 426.2 | 425.7 | 425.2 | 424.6 | 423.9 | 423.3 | 422.6 | 422.3  | 422.6 |
| 160°   | 432.5 | 432.1 | 431.6 | 431.2 | 430.8 | 430.4 | 429.9 | 429.5 | 429.0 | 428.8  | 429.0 |
| 162.5° | 437.7 | 437.2 | 436.7 | 436.2 | 435.7 | 435.3 | 434.9 | 434.6 | 434.2 | 434.0  | 434.2 |
| 165°   | 441.6 | 441.1 | 440.6 | 440.1 | 439.6 | 439.4 | 439.2 | 438.9 | 438.7 | 438.6  | 438.8 |
| 167.5° | 445.1 | 444.6 | 444.1 | 443.6 | 443.1 | 442.9 | 442.7 | 442.5 | 442.3 | 442.2  | 442.4 |
| 170°   | 447.7 | 447.2 | 446.7 | 446.2 | 445.7 | 445.6 | 445.4 | 445.3 | 445.2 | 445.1  | 445.3 |
| 172.5° | 449.7 | 449.2 | 448.7 | 448.2 | 447.7 | 447.5 | 447.4 | 447.2 | 447.1 | 447.0  | 447.2 |
| 175°   | 451.0 | 450.5 | 450.0 | 449.5 | 449.0 | 448.8 | 448.7 | 448.5 | 448.4 | 448.3  | 448.6 |
| 177.5° | 451.3 | 450.8 | 450.3 | 449.8 | 449.3 | 449.2 | 449.2 | 449.1 | 449.0 | 449.0  | 449.3 |
| 180°   | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6 | 449.6  | 449.6 |

TEST NUMBER: P998742

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1335.3 | 1335.3 | 1335.3 | 1335.3 |
| 2.5°   | 1310.6 | 1310.6 | 1326.0 | 1342.4 |
| 5°     | 1281.9 | 1289.1 | 1313.7 | 1336.3 |
| 7.5°   | 1254.2 | 1266.5 | 1297.3 | 1326.0 |
| 10°    | 1220.3 | 1236.7 | 1274.7 | 1308.6 |
| 12.5°  | 1187.5 | 1202.9 | 1247.0 | 1285.0 |
| 15°    | 1141.3 | 1160.8 | 1208.0 | 1255.2 |
| 17.5°  | 1095.1 | 1114.6 | 1172.1 | 1227.5 |
| 20°    | 1040.7 | 1066.4 | 1131.0 | 1204.9 |
| 22.5°  | 990.4  | 1022.2 | 1094.1 | 1153.6 |
| 25°    | 935.0  | 984.3  | 1051.0 | 1127.9 |
| 27.5°  | 885.7  | 935.0  | 1002.7 | 1080.7 |
| 30°    | 830.3  | 880.6  | 950.4  | 1022.2 |
| 32.5°  | 776.9  | 823.1  | 890.9  | 979.1  |
| 35°    | 721.5  | 765.6  | 831.3  | 920.6  |
| 37.5°  | 671.2  | 714.3  | 786.2  | 868.3  |
| 40°    | 622.0  | 667.1  | 728.7  | 810.8  |
| 42.5°  | 575.8  | 615.8  | 671.2  | 753.3  |
| 45°    | 533.7  | 562.4  | 613.7  | 690.7  |
| 47.5°  | 489.6  | 515.2  | 562.4  | 639.4  |
| 50°    | 448.5  | 470.1  | 511.1  | 583.0  |
| 52.5°  | 408.5  | 427.0  | 464.9  | 522.4  |
| 55°    | 372.6  | 390.0  | 417.7  | 474.2  |
| 57.5°  | 335.6  | 349.0  | 375.6  | 420.8  |
| 60°    | 299.7  | 312.0  | 333.6  | 370.5  |
| 62.5°  | 263.8  | 274.0  | 294.6  | 324.3  |
| 65°    | 232.0  | 240.2  | 255.6  | 281.2  |
| 67.5°  | 201.2  | 206.3  | 218.6  | 239.1  |
| 70°    | 171.4  | 175.5  | 185.8  | 202.2  |
| 72.5°  | 139.6  | 143.7  | 155.0  | 166.3  |
| 75°    | 112.9  | 113.9  | 122.1  | 131.4  |
| 77.5°  | 88.3   | 87.2   | 93.4   | 100.6  |
| 80°    | 60.6   | 63.6   | 68.8   | 71.8   |
| 82.5°  | 41.1   | 42.1   | 44.1   | 46.2   |
| 85°    | 22.6   | 23.6   | 23.6   | 26.7   |
| 87.5°  | 9.2    | 10.3   | 10.3   | 11.3   |
| 90°    | 2.7    | 1.9    | 1.1    | 0.3    |
| 92.5°  | 7.2    | 7.5    | 7.8    | 8.1    |
| 95°    | 14.0   | 16.3   | 18.7   | 21.1   |
| 97.5°  | 20.3   | 26.2   | 32.2   | 38.1   |
| 100°   | 27.9   | 37.8   | 47.7   | 57.6   |
| 102.5° | 78.6   | 78.8   | 78.9   | 79.1   |
| 105°   | 105.4  | 103.3  | 101.1  | 98.9   |
| 107.5° | 127.4  | 125.6  | 123.8  | 122.0  |
| 110°   | 148.7  | 147.2  | 145.6  | 144.1  |



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CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 168.9 | 167.6 | 166.3 | 165.0 |
| 115°   | 190.8 | 189.5 | 188.3 | 187.1 |
| 117.5° | 210.6 | 209.2 | 207.7 | 206.3 |
| 120°   | 231.0 | 229.9 | 228.9 | 227.8 |
| 122.5° | 249.5 | 248.3 | 247.2 | 246.0 |
| 125°   | 267.3 | 266.4 | 265.4 | 264.5 |
| 127.5° | 284.5 | 283.4 | 282.4 | 281.4 |
| 130°   | 300.9 | 299.7 | 298.6 | 297.4 |
| 132.5° | 316.5 | 315.5 | 314.6 | 313.6 |
| 135°   | 330.8 | 329.6 | 328.5 | 327.3 |
| 137.5° | 344.2 | 343.3 | 342.5 | 341.6 |
| 140°   | 357.3 | 356.8 | 356.2 | 355.6 |
| 142.5° | 368.8 | 368.3 | 367.8 | 367.3 |
| 145°   | 379.5 | 379.6 | 379.6 | 379.7 |
| 147.5° | 389.8 | 390.0 | 390.2 | 390.4 |
| 150°   | 399.3 | 399.8 | 400.3 | 400.8 |
| 152.5° | 407.9 | 408.4 | 409.0 | 409.6 |
| 155°   | 416.2 | 416.8 | 417.5 | 418.1 |
| 157.5° | 423.2 | 423.7 | 424.3 | 424.9 |
| 160°   | 429.5 | 429.9 | 430.4 | 430.8 |
| 162.5° | 434.7 | 435.1 | 435.6 | 436.0 |
| 165°   | 439.2 | 439.7 | 440.1 | 440.5 |
| 167.5° | 442.8 | 443.3 | 443.7 | 444.1 |
| 170°   | 445.7 | 446.2 | 446.6 | 447.0 |
| 172.5° | 447.7 | 448.1 | 448.6 | 449.0 |
| 175°   | 449.1 | 449.6 | 450.1 | 450.6 |
| 177.5° | 449.8 | 450.3 | 450.8 | 451.3 |
| 180°   | 449.6 | 449.6 | 449.6 | 449.6 |



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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 18.07            | 19.08 | 18.85 | 19.88 | 20.85 | 15.56          | 16.57 | 16.34 | 17.37 | 18.34 |
|                 | 3H   | 18.89            | 19.80 | 19.69 | 20.60 | 21.61 | 16.92          | 17.82 | 17.71 | 18.63 | 19.63 |
|                 | 4H   | 19.07            | 19.92 | 19.88 | 20.74 | 21.75 | 17.39          | 18.24 | 18.20 | 19.06 | 20.07 |
|                 | 6H   | 19.12            | 19.90 | 19.94 | 20.73 | 21.76 | 17.70          | 18.49 | 18.53 | 19.31 | 20.34 |
|                 | 8H   | 19.10            | 19.85 | 19.94 | 20.69 | 21.72 | 17.79          | 18.54 | 18.62 | 19.38 | 20.41 |
|                 | 12H  | 19.07            | 19.78 | 19.91 | 20.62 | 21.67 | 17.84          | 18.55 | 18.67 | 19.38 | 20.44 |
| 4H              | 2H   | 18.13            | 18.98 | 18.94 | 19.80 | 20.81 | 16.02          | 16.88 | 16.84 | 17.69 | 18.71 |
|                 | 3H   | 19.12            | 19.83 | 19.95 | 20.68 | 21.71 | 17.50          | 18.21 | 18.33 | 19.06 | 20.09 |
|                 | 4H   | 19.40            | 20.05 | 20.24 | 20.90 | 21.95 | 18.04          | 18.68 | 18.88 | 19.53 | 20.59 |
|                 | 6H   | 19.54            | 20.10 | 20.40 | 20.97 | 22.03 | 18.43          | 18.98 | 19.28 | 19.85 | 20.92 |
|                 | 8H   | 19.54            | 20.06 | 20.40 | 20.93 | 22.00 | 18.54          | 19.06 | 19.40 | 19.93 | 21.00 |
|                 | 12H  | 19.51            | 19.98 | 20.39 | 20.87 | 21.95 | 18.60          | 19.07 | 19.48 | 19.96 | 21.04 |
| 8H              | 4H   | 19.42            | 19.94 | 20.28 | 20.81 | 21.88 | 18.19          | 18.71 | 19.05 | 19.58 | 20.65 |
|                 | 6H   | 19.61            | 20.04 | 20.50 | 20.95 | 22.02 | 18.63          | 19.06 | 19.52 | 19.97 | 21.05 |
|                 | 8H   | 19.64            | 20.02 | 20.54 | 20.92 | 22.01 | 18.78          | 19.16 | 19.68 | 20.07 | 21.16 |
|                 | 12H  | 19.63            | 19.96 | 20.53 | 20.86 | 22.00 | 18.88          | 19.22 | 19.78 | 20.11 | 21.26 |
| 12H             | 4H   | 19.39            | 19.85 | 20.27 | 20.74 | 21.82 | 18.17          | 18.64 | 19.05 | 19.53 | 20.61 |
|                 | 6H   | 19.59            | 19.97 | 20.49 | 20.87 | 21.96 | 18.63          | 19.01 | 19.53 | 19.92 | 21.01 |
|                 | 8H   | 19.63            | 19.96 | 20.53 | 20.86 | 22.00 | 18.80          | 19.13 | 19.70 | 20.03 | 21.17 |