

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: P998741

Luminaire Tested: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

Issue Date: 5/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P998741  
REPORT IS A COMBINATION OF REPORTS P984487 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K  
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

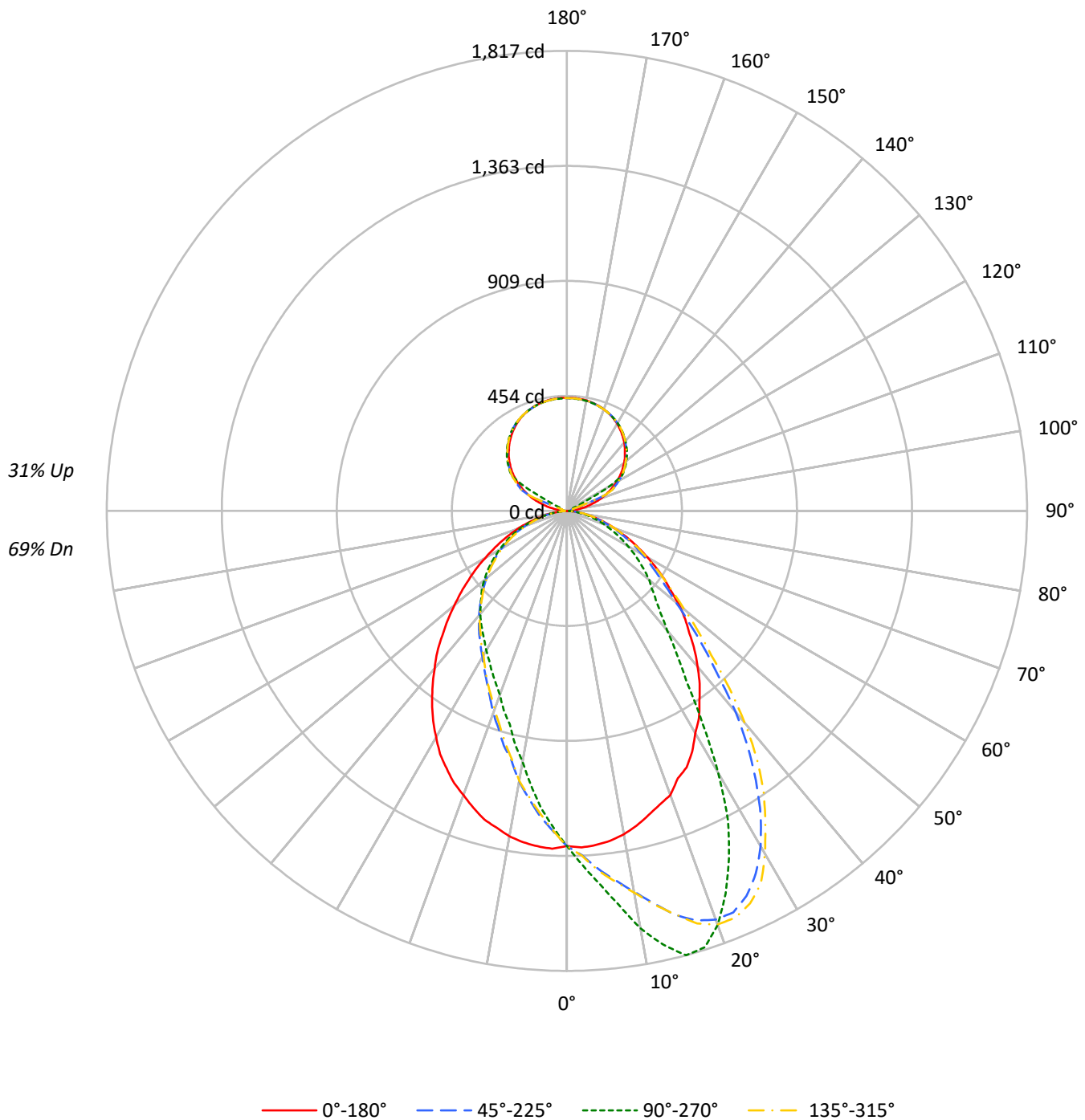
Lumens per Lamp: N/A  
Luminaire Lumens: 4227.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 45.2  
Input Voltage (V): 120  
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: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P998741

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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°  | 20950 | 20950 | 20950 | 20950 |
| 5°  | 21000 | 22337 | 21081 | 17772 |
| 10° | 20756 | 24384 | 20887 | 14652 |
| 15° | 20252 | 25721 | 20534 | 12342 |
| 20° | 19937 | 24150 | 19937 | 10726 |
| 25° | 19302 | 20747 | 19390 | 9593  |
| 30° | 18256 | 16309 | 18604 | 8689  |
| 35° | 17330 | 11278 | 17620 | 7951  |
| 40° | 16266 | 8515  | 16450 | 7360  |
| 45° | 14952 | 6997  | 15196 | 6725  |
| 50° | 13817 | 6141  | 13841 | 6156  |
| 55° | 12524 | 5233  | 12604 | 5539  |
| 60° | 11143 | 4370  | 11297 | 4833  |
| 65° | 9908  | 3554  | 10089 | 4127  |
| 70° | 8679  | 2790  | 8900  | 3329  |
| 75° | 7283  | 2025  | 7569  | 2414  |
| 80° | 5684  | 1282  | 6092  | 1434  |
| 85° | 3729  | 647   | 4026  | 477   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 21656 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.1  | 3.0       |
| 10°-20°   | 366.9  | 8.7       |
| 20°-30°   | 532.5  | 12.6      |
| 30°-40°   | 561.3  | 13.3      |
| 40°-50°   | 496.7  | 11.8      |
| 50°-60°   | 396.6  | 9.4       |
| 60°-70°   | 269.4  | 6.4       |
| 70°-80°   | 137.8  | 3.3       |
| 80°-90°   | 33.4   | 0.8       |
| 90°-100°  | 14.7   | 0.3       |
| 100°-110° | 54.8   | 1.3       |
| 110°-120° | 145.3  | 3.4       |
| 120°-130° | 240.9  | 5.7       |
| 130°-140° | 255.9  | 6.1       |
| 140°-150° | 237.8  | 5.6       |
| 150°-160° | 191.2  | 4.5       |
| 160°-170° | 123.2  | 2.9       |
| 170°-180° | 42.4   | 1.0       |
| 0°-30°    | 1025.5 | 24.3      |
| 0°-40°    | 1586.8 | 37.5      |
| 0°-60°    | 2480.2 | 58.7      |
| 0°-90°    | 2920.8 | 69.1      |
| 90°-120°  | 214.7  | 5.1       |
| 90°-150°  | 949.4  | 22.5      |
| 90°-180°  | 1306.0 | 30.9      |
| 0°-180°   | 4227.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1324 | 1324 | 1324 | 1324 | 1324 |      |
| 5°   | 1324 | 1478 | 1330 | 1176 | 1324 | 126  |
| 15°  | 1244 | 1817 | 1261 | 872  | 1244 | 351  |
| 25°  | 1118 | 1514 | 1123 | 700  | 1118 | 511  |
| 35°  | 912  | 824  | 928  | 581  | 912  | 571  |
| 45°  | 685  | 496  | 696  | 477  | 685  | 531  |
| 55°  | 470  | 349  | 473  | 369  | 470  | 419  |
| 65°  | 279  | 215  | 284  | 249  | 279  | 277  |
| 75°  | 130  | 106  | 135  | 126  | 130  | 140  |
| 85°  | 26   | 28   | 28   | 20   | 26   | 31   |
| 90°  | 0    | 9    | 0    | 9    | 0    | 3    |
| 95°  | 21   | 14   | 21   | 14   | 21   | 25   |
| 105° | 98   | 24   | 98   | 24   | 98   | 105  |
| 115° | 185  | 26   | 185  | 26   | 185  | 183  |
| 125° | 262  | 276  | 262  | 276  | 262  | 234  |
| 135° | 324  | 335  | 324  | 335  | 324  | 251  |
| 145° | 376  | 382  | 376  | 382  | 376  | 235  |
| 155° | 414  | 415  | 414  | 415  | 414  | 191  |
| 165° | 436  | 436  | 436  | 436  | 436  | 123  |
| 175° | 446  | 444  | 446  | 444  | 446  | 42   |
| 180° | 446  | 446  | 446  | 446  | 446  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1330.6 | 1333.7 | 1338.7 | 1339.8 | 1349.9 | 1358.1 | 1367.2 | 1367.2 | 1370.3 | 1369.3 | 1361.1 |
| 5°     | 1324.5 | 1333.7 | 1346.9 | 1358.1 | 1376.4 | 1384.5 | 1396.7 | 1405.9 | 1414.0 | 1420.1 | 1419.1 |
| 7.5°   | 1314.3 | 1330.6 | 1349.9 | 1371.3 | 1395.7 | 1409.9 | 1427.2 | 1443.5 | 1454.7 | 1464.9 | 1472.0 |
| 10°    | 1297.0 | 1324.5 | 1350.9 | 1379.4 | 1411.0 | 1430.3 | 1450.6 | 1472.0 | 1489.3 | 1508.6 | 1526.9 |
| 12.5°  | 1273.6 | 1313.3 | 1345.9 | 1383.5 | 1422.2 | 1443.5 | 1476.1 | 1492.3 | 1525.9 | 1574.7 | 1588.0 |
| 15°    | 1244.1 | 1298.0 | 1328.6 | 1376.4 | 1427.2 | 1444.5 | 1489.3 | 1515.7 | 1584.9 | 1615.4 | 1652.1 |
| 17.5°  | 1216.7 | 1276.7 | 1317.4 | 1372.3 | 1422.2 | 1455.7 | 1499.5 | 1553.4 | 1611.4 | 1655.1 | 1695.8 |
| 20°    | 1194.3 | 1252.3 | 1301.1 | 1362.1 | 1425.2 | 1467.9 | 1513.7 | 1578.8 | 1641.9 | 1686.6 | 1718.2 |
| 22.5°  | 1143.4 | 1217.7 | 1274.7 | 1342.8 | 1419.1 | 1478.1 | 1521.8 | 1593.1 | 1661.2 | 1688.7 | 1716.1 |
| 25°    | 1118.0 | 1182.1 | 1248.2 | 1325.5 | 1415.0 | 1485.2 | 1522.9 | 1602.2 | 1662.2 | 1672.4 | 1678.5 |
| 27.5°  | 1071.2 | 1143.4 | 1220.7 | 1309.2 | 1414.0 | 1473.0 | 1520.8 | 1593.1 | 1640.9 | 1633.8 | 1615.4 |
| 30°    | 1013.2 | 1101.7 | 1187.2 | 1282.8 | 1399.8 | 1463.9 | 1508.6 | 1574.7 | 1599.2 | 1562.5 | 1530.0 |
| 32.5°  | 970.5  | 1053.9 | 1148.5 | 1259.4 | 1383.5 | 1444.5 | 1488.3 | 1540.2 | 1545.2 | 1479.1 | 1424.2 |
| 35°    | 912.5  | 1005.1 | 1111.9 | 1228.9 | 1356.0 | 1411.0 | 1451.7 | 1483.2 | 1458.8 | 1366.2 | 1301.1 |
| 37.5°  | 860.6  | 952.2  | 1066.1 | 1185.1 | 1318.4 | 1372.3 | 1404.9 | 1409.9 | 1349.9 | 1268.5 | 1172.9 |
| 40°    | 803.7  | 898.3  | 1017.3 | 1142.4 | 1276.7 | 1323.5 | 1343.8 | 1328.6 | 1242.1 | 1147.5 | 1036.6 |
| 42.5°  | 746.7  | 840.3  | 968.4  | 1096.6 | 1223.8 | 1263.5 | 1271.6 | 1229.9 | 1124.1 | 1013.2 | 885.0  |
| 45°    | 684.6  | 782.3  | 910.5  | 1039.7 | 1162.7 | 1185.1 | 1186.1 | 1126.1 | 1001.0 | 885.0  | 766.0  |
| 47.5°  | 633.8  | 724.3  | 851.5  | 980.7  | 1084.4 | 1099.7 | 1093.6 | 1024.4 | 888.1  | 757.9  | 654.1  |
| 50°    | 577.8  | 664.3  | 790.4  | 917.6  | 1006.1 | 1010.2 | 994.9  | 896.2  | 763.0  | 643.9  | 561.5  |
| 52.5°  | 517.8  | 605.3  | 721.3  | 843.3  | 922.7  | 916.6  | 887.1  | 781.3  | 656.1  | 557.5  | 494.4  |
| 55°    | 470.0  | 547.3  | 656.1  | 775.2  | 831.1  | 813.8  | 781.3  | 673.4  | 574.8  | 491.3  | 436.4  |
| 57.5°  | 417.1  | 485.2  | 592.1  | 695.8  | 728.4  | 712.1  | 679.5  | 578.8  | 487.3  | 424.2  | 387.6  |
| 60°    | 367.2  | 429.3  | 522.9  | 609.4  | 634.8  | 617.5  | 579.8  | 489.3  | 423.2  | 370.3  | 342.8  |
| 62.5°  | 321.5  | 375.4  | 453.7  | 533.1  | 543.2  | 525.9  | 493.4  | 420.1  | 363.2  | 321.5  | 301.1  |
| 65°    | 278.7  | 329.6  | 392.7  | 452.7  | 461.8  | 443.5  | 410.0  | 357.1  | 309.3  | 282.8  | 263.5  |
| 67.5°  | 237.0  | 277.7  | 333.7  | 377.4  | 382.5  | 365.2  | 337.7  | 295.0  | 265.5  | 237.0  | 222.8  |
| 70°    | 200.4  | 230.9  | 274.7  | 310.3  | 312.3  | 296.0  | 281.8  | 243.1  | 220.7  | 200.4  | 189.2  |
| 72.5°  | 164.8  | 186.2  | 219.7  | 246.2  | 247.2  | 237.0  | 223.8  | 199.4  | 180.1  | 165.8  | 154.6  |
| 75°    | 130.2  | 148.5  | 168.9  | 192.3  | 191.2  | 183.1  | 172.9  | 157.7  | 141.4  | 132.2  | 127.2  |
| 77.5°  | 99.7   | 110.9  | 127.2  | 142.4  | 142.4  | 138.3  | 132.2  | 121.1  | 110.9  | 101.7  | 96.6   |
| 80°    | 71.2   | 78.3   | 91.6   | 96.6   | 98.7   | 97.7   | 92.6   | 84.4   | 80.4   | 73.2   | 71.2   |
| 82.5°  | 45.8   | 50.9   | 57.0   | 62.1   | 65.1   | 63.1   | 62.1   | 58.0   | 51.9   | 49.8   | 47.8   |
| 85°    | 26.4   | 28.5   | 31.5   | 34.6   | 35.6   | 34.6   | 36.6   | 33.6   | 30.5   | 30.5   | 29.5   |
| 87.5°  | 11.2   | 12.2   | 14.2   | 14.2   | 15.3   | 15.3   | 14.2   | 15.3   | 15.3   | 14.2   | 13.2   |
| 90°    | 0.3    | 1.1    | 1.9    | 2.7    | 3.5    | 3.9    | 4.2    | 4.7    | 5.3    | 5.8    | 6.4    |
| 92.5°  | 8.1    | 7.8    | 7.5    | 7.2    | 6.9    | 6.8    | 6.9    | 7.1    | 7.3    | 7.5    | 7.7    |
| 95°    | 21.0   | 18.6   | 16.2   | 13.9   | 11.5   | 10.3   | 10.6   | 11.1   | 11.6   | 12.1   | 12.6   |
| 97.5°  | 37.7   | 31.8   | 26.0   | 20.1   | 14.2   | 11.3   | 11.9   | 13.0   | 14.1   | 15.3   | 16.4   |
| 100°   | 57.1   | 47.3   | 37.5   | 27.6   | 17.8   | 12.9   | 13.5   | 14.7   | 16.0   | 17.2   | 18.4   |
| 102.5° | 78.3   | 78.2   | 78.0   | 77.9   | 77.8   | 77.7   | 71.2   | 58.1   | 45.1   | 32.0   | 19.0   |
| 105°   | 98.0   | 100.2  | 102.3  | 104.5  | 106.6  | 107.7  | 97.9   | 78.4   | 58.8   | 39.3   | 19.7   |
| 107.5° | 120.9  | 122.7  | 124.5  | 126.3  | 128.1  | 129.0  | 116.9  | 92.8   | 68.6   | 44.5   | 20.3   |
| 110°   | 142.8  | 144.3  | 145.8  | 147.3  | 148.8  | 149.6  | 139.2  | 118.5  | 97.8   | 77.1   | 56.4   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 163.5 | 164.8 | 166.1 | 167.4 | 168.7 | 169.3 | 168.7 | 167.5 | 166.2 | 165.0 | 163.8 |
| 115°   | 185.4 | 186.6 | 187.8 | 189.1 | 190.3 | 190.9 | 191.8 | 193.6 | 195.3 | 197.1 | 198.9 |
| 117.5° | 204.4 | 205.8 | 207.2 | 208.7 | 210.1 | 210.8 | 211.4 | 212.6 | 213.9 | 215.1 | 216.3 |
| 120°   | 225.7 | 226.8 | 227.8 | 228.9 | 230.0 | 230.5 | 231.1 | 232.4 | 233.7 | 235.0 | 236.3 |
| 122.5° | 243.7 | 244.9 | 246.0 | 247.2 | 248.3 | 248.9 | 249.6 | 251.0 | 252.5 | 253.9 | 255.3 |
| 125°   | 262.1 | 263.0 | 264.0 | 264.9 | 265.8 | 266.3 | 267.0 | 268.3 | 269.7 | 271.0 | 272.4 |
| 127.5° | 278.9 | 279.9 | 280.9 | 281.9 | 282.9 | 283.4 | 283.9 | 285.0 | 286.1 | 287.1 | 288.2 |
| 130°   | 294.7 | 295.8 | 297.0 | 298.1 | 299.2 | 299.8 | 300.2 | 301.0 | 301.8 | 302.6 | 303.4 |
| 132.5° | 310.8 | 311.7 | 312.7 | 313.6 | 314.5 | 315.0 | 315.4 | 316.2 | 316.9 | 317.7 | 318.5 |
| 135°   | 324.3 | 325.5 | 326.6 | 327.8 | 328.9 | 329.5 | 329.8 | 330.5 | 331.1 | 331.8 | 332.4 |
| 137.5° | 338.5 | 339.4 | 340.2 | 341.1 | 342.0 | 342.4 | 342.8 | 343.5 | 344.2 | 344.9 | 345.6 |
| 140°   | 352.4 | 353.0 | 353.6 | 354.1 | 354.7 | 355.0 | 355.4 | 356.2 | 356.9 | 357.7 | 358.5 |
| 142.5° | 364.0 | 364.5 | 365.0 | 365.5 | 366.0 | 366.2 | 366.7 | 367.6 | 368.5 | 369.5 | 370.4 |
| 145°   | 376.2 | 376.1 | 376.1 | 376.0 | 375.9 | 375.9 | 376.5 | 377.7 | 379.0 | 380.2 | 381.4 |
| 147.5° | 386.9 | 386.7 | 386.5 | 386.2 | 386.0 | 385.9 | 386.5 | 387.7 | 389.0 | 390.2 | 391.4 |
| 150°   | 397.2 | 396.7 | 396.2 | 395.7 | 395.2 | 394.9 | 395.5 | 396.6 | 397.8 | 398.9 | 400.1 |
| 152.5° | 405.9 | 405.3 | 404.7 | 404.2 | 403.6 | 403.3 | 403.8 | 404.9 | 406.0 | 407.1 | 408.2 |
| 155°   | 414.3 | 413.7 | 413.0 | 412.4 | 411.7 | 411.4 | 411.8 | 412.7 | 413.6 | 414.4 | 415.3 |
| 157.5° | 421.1 | 420.5 | 419.9 | 419.4 | 418.8 | 418.5 | 418.8 | 419.5 | 420.1 | 420.8 | 421.4 |
| 160°   | 426.9 | 426.5 | 426.0 | 425.6 | 425.1 | 424.9 | 425.1 | 425.6 | 426.0 | 426.5 | 426.9 |
| 162.5° | 432.0 | 431.6 | 431.2 | 430.7 | 430.3 | 430.1 | 430.3 | 430.6 | 431.0 | 431.3 | 431.7 |
| 165°   | 436.5 | 436.1 | 435.7 | 435.2 | 434.8 | 434.6 | 434.7 | 434.9 | 435.2 | 435.4 | 435.6 |
| 167.5° | 440.1 | 439.7 | 439.2 | 438.8 | 438.3 | 438.1 | 438.2 | 438.4 | 438.7 | 438.9 | 439.1 |
| 170°   | 443.0 | 442.6 | 442.1 | 441.7 | 441.2 | 441.0 | 441.1 | 441.2 | 441.4 | 441.5 | 441.7 |
| 172.5° | 444.9 | 444.5 | 444.1 | 443.6 | 443.2 | 443.0 | 443.1 | 443.2 | 443.3 | 443.5 | 443.6 |
| 175°   | 446.5 | 446.0 | 445.5 | 445.0 | 444.5 | 444.3 | 444.4 | 444.5 | 444.6 | 444.8 | 444.9 |
| 177.5° | 447.2 | 446.7 | 446.2 | 445.7 | 445.2 | 444.9 | 444.9 | 445.0 | 445.1 | 445.1 | 445.2 |
| 180°   | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1375.4 | 1376.4 | 1378.4 | 1388.6 | 1393.7 | 1394.7 | 1390.6 | 1399.8 | 1402.8 | 1399.8 | 1397.7 |
| 5°     | 1440.5 | 1446.6 | 1458.8 | 1472.0 | 1471.0 | 1472.0 | 1478.1 | 1484.2 | 1486.2 | 1478.1 | 1481.2 |
| 7.5°   | 1497.4 | 1509.6 | 1522.9 | 1543.2 | 1543.2 | 1553.4 | 1557.5 | 1562.5 | 1574.7 | 1568.6 | 1566.6 |
| 10°    | 1562.5 | 1578.8 | 1603.2 | 1635.8 | 1636.8 | 1647.0 | 1657.1 | 1673.4 | 1678.5 | 1674.4 | 1676.5 |
| 12.5°  | 1643.9 | 1675.5 | 1677.5 | 1713.1 | 1729.4 | 1731.4 | 1747.7 | 1744.6 | 1754.8 | 1754.8 | 1772.1 |
| 15°    | 1679.5 | 1728.4 | 1755.8 | 1790.4 | 1800.6 | 1788.4 | 1801.6 | 1815.8 | 1816.9 | 1816.9 | 1815.8 |
| 17.5°  | 1743.6 | 1762.9 | 1790.4 | 1808.7 | 1812.8 | 1812.8 | 1813.8 | 1819.9 | 1815.8 | 1807.7 | 1813.8 |
| 20°    | 1756.8 | 1765.0 | 1775.2 | 1773.1 | 1775.2 | 1765.0 | 1754.8 | 1744.6 | 1745.7 | 1740.6 | 1755.8 |
| 22.5°  | 1732.4 | 1730.4 | 1707.0 | 1691.7 | 1691.7 | 1671.4 | 1652.1 | 1642.9 | 1633.8 | 1636.8 | 1641.9 |
| 25°    | 1671.4 | 1639.9 | 1611.4 | 1589.0 | 1583.9 | 1551.4 | 1524.9 | 1516.8 | 1501.5 | 1513.7 | 1515.7 |
| 27.5°  | 1573.7 | 1538.1 | 1492.3 | 1473.0 | 1446.6 | 1433.3 | 1415.0 | 1390.6 | 1359.1 | 1377.4 | 1374.3 |
| 30°    | 1469.0 | 1416.1 | 1378.4 | 1331.6 | 1289.9 | 1286.9 | 1252.3 | 1211.6 | 1195.3 | 1195.3 | 1204.5 |
| 32.5°  | 1352.0 | 1281.8 | 1226.8 | 1160.7 | 1120.0 | 1102.7 | 1061.0 | 1020.3 | 1029.5 | 999.0  | 1010.2 |
| 35°    | 1215.6 | 1123.1 | 1053.9 | 989.8  | 959.3  | 938.9  | 885.0  | 862.7  | 838.2  | 824.0  | 850.4  |
| 37.5°  | 1085.4 | 978.6  | 890.1  | 819.9  | 808.7  | 772.1  | 735.5  | 721.3  | 707.0  | 713.1  | 712.1  |
| 40°    | 926.7  | 832.1  | 752.8  | 697.9  | 678.5  | 661.2  | 636.8  | 619.5  | 610.4  | 615.5  | 616.5  |
| 42.5°  | 783.3  | 704.0  | 645.0  | 606.3  | 590.0  | 577.8  | 565.6  | 551.4  | 548.3  | 548.3  | 552.4  |
| 45°    | 672.4  | 607.3  | 567.6  | 536.1  | 527.0  | 517.8  | 508.6  | 502.5  | 500.5  | 496.4  | 499.5  |
| 47.5°  | 583.9  | 532.0  | 507.6  | 484.2  | 474.1  | 472.0  | 463.9  | 460.8  | 456.8  | 455.7  | 456.8  |
| 50°    | 509.7  | 477.1  | 454.7  | 441.5  | 434.4  | 431.3  | 427.3  | 421.2  | 419.1  | 424.2  | 422.2  |
| 52.5°  | 457.8  | 427.3  | 415.0  | 401.8  | 397.8  | 393.7  | 387.6  | 388.6  | 387.6  | 385.5  | 385.5  |
| 55°    | 405.9  | 386.6  | 374.4  | 364.2  | 363.2  | 359.1  | 354.0  | 352.0  | 351.0  | 348.9  | 352.0  |
| 57.5°  | 364.2  | 348.9  | 337.7  | 328.6  | 324.5  | 324.5  | 319.4  | 315.4  | 315.4  | 314.3  | 315.4  |
| 60°    | 322.5  | 307.2  | 300.1  | 290.9  | 287.9  | 286.9  | 283.8  | 281.8  | 278.7  | 278.7  | 278.7  |
| 62.5°  | 283.8  | 271.6  | 263.5  | 255.3  | 256.4  | 251.3  | 247.2  | 245.2  | 245.2  | 246.2  | 246.2  |
| 65°    | 247.2  | 239.1  | 228.9  | 221.8  | 219.7  | 218.7  | 216.7  | 215.7  | 212.6  | 214.6  | 214.6  |
| 67.5°  | 213.6  | 202.4  | 196.3  | 193.3  | 190.2  | 189.2  | 187.2  | 185.1  | 184.1  | 183.1  | 185.1  |
| 70°    | 180.1  | 170.9  | 165.8  | 163.8  | 160.7  | 159.7  | 158.7  | 155.6  | 156.7  | 157.7  | 158.7  |
| 72.5°  | 149.5  | 141.4  | 140.4  | 134.3  | 134.3  | 134.3  | 130.2  | 132.2  | 131.2  | 129.2  | 131.2  |
| 75°    | 118.0  | 113.9  | 111.9  | 108.8  | 109.9  | 108.8  | 107.8  | 104.8  | 104.8  | 105.8  | 106.8  |
| 77.5°  | 93.6   | 89.5   | 88.5   | 85.5   | 83.4   | 85.5   | 83.4   | 82.4   | 82.4   | 83.4   | 83.4   |
| 80°    | 69.2   | 67.1   | 64.1   | 64.1   | 64.1   | 63.1   | 63.1   | 63.1   | 62.1   | 61.0   | 62.1   |
| 82.5°  | 45.8   | 45.8   | 44.8   | 43.7   | 44.8   | 42.7   | 43.7   | 43.7   | 43.7   | 43.7   | 43.7   |
| 85°    | 29.5   | 28.5   | 28.5   | 27.5   | 27.5   | 27.5   | 28.5   | 26.4   | 26.4   | 27.5   | 27.5   |
| 87.5°  | 13.2   | 13.2   | 13.2   | 14.2   | 13.2   | 13.2   | 13.2   | 14.2   | 13.2   | 13.2   | 13.2   |
| 90°    | 6.8    | 7.2    | 7.5    | 7.9    | 8.1    | 8.2    | 8.3    | 8.4    | 8.6    | 8.7    | 8.6    |
| 92.5°  | 7.9    | 8.0    | 8.2    | 8.3    | 8.4    | 8.4    | 8.5    | 8.6    | 8.6    | 8.7    | 8.6    |
| 95°    | 13.0   | 13.3   | 13.7   | 14.0   | 14.2   | 14.2   | 14.1   | 14.0   | 14.0   | 13.9   | 14.0   |
| 97.5°  | 16.6   | 16.8   | 17.1   | 17.3   | 17.4   | 17.4   | 17.5   | 17.6   | 17.6   | 17.7   | 17.6   |
| 100°   | 19.0   | 19.6   | 20.1   | 20.7   | 21.0   | 21.1   | 21.2   | 21.3   | 21.5   | 21.6   | 21.5   |
| 102.5° | 19.8   | 20.6   | 21.4   | 22.2   | 22.6   | 22.7   | 22.9   | 23.1   | 23.3   | 23.5   | 23.3   |
| 105°   | 20.5   | 21.3   | 22.0   | 22.8   | 23.2   | 23.3   | 23.6   | 23.9   | 24.2   | 24.5   | 24.2   |
| 107.5° | 21.1   | 21.9   | 22.7   | 23.5   | 23.9   | 24.0   | 24.3   | 24.6   | 24.8   | 25.1   | 24.8   |
| 110°   | 49.2   | 42.1   | 34.9   | 27.8   | 24.2   | 24.3   | 24.6   | 24.9   | 25.2   | 25.5   | 25.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.9 | 102.0 | 71.1  | 40.2  | 24.8  | 24.9  | 25.1  | 25.4  | 25.6  | 25.8  | 25.6  |
| 115°   | 165.7 | 132.5 | 99.4  | 66.2  | 49.6  | 47.0  | 41.9  | 36.7  | 31.6  | 26.4  | 31.6  |
| 117.5° | 206.1 | 195.8 | 185.6 | 175.3 | 170.2 | 160.8 | 142.1 | 123.3 | 104.6 | 85.8  | 104.6 |
| 120°   | 237.2 | 238.0 | 238.9 | 239.8 | 240.2 | 235.4 | 225.7 | 216.0 | 206.4 | 196.7 | 206.4 |
| 122.5° | 255.7 | 256.2 | 256.6 | 257.1 | 257.3 | 257.3 | 257.4 | 257.5 | 257.5 | 257.6 | 257.5 |
| 125°   | 272.9 | 273.4 | 273.9 | 274.4 | 274.7 | 274.8 | 275.0 | 275.3 | 275.5 | 275.7 | 275.5 |
| 127.5° | 288.9 | 289.6 | 290.3 | 291.0 | 291.4 | 291.4 | 291.5 | 291.6 | 291.7 | 291.8 | 291.7 |
| 130°   | 304.2 | 305.0 | 305.7 | 306.5 | 306.9 | 306.9 | 306.8 | 306.7 | 306.7 | 306.6 | 306.7 |
| 132.5° | 319.1 | 319.8 | 320.4 | 321.1 | 321.4 | 321.4 | 321.3 | 321.2 | 321.2 | 321.1 | 321.2 |
| 135°   | 333.1 | 333.8 | 334.5 | 335.2 | 335.6 | 335.5 | 335.4 | 335.3 | 335.1 | 335.0 | 335.1 |
| 137.5° | 346.3 | 347.0 | 347.7 | 348.4 | 348.8 | 348.7 | 348.5 | 348.3 | 348.1 | 347.9 | 348.1 |
| 140°   | 359.1 | 359.8 | 360.4 | 361.1 | 361.4 | 361.2 | 360.9 | 360.5 | 360.2 | 359.8 | 360.2 |
| 142.5° | 371.0 | 371.6 | 372.1 | 372.7 | 373.0 | 372.8 | 372.5 | 372.1 | 371.8 | 371.4 | 371.8 |
| 145°   | 381.9 | 382.4 | 382.9 | 383.4 | 383.7 | 383.5 | 383.1 | 382.8 | 382.4 | 382.0 | 382.4 |
| 147.5° | 391.8 | 392.1 | 392.5 | 392.8 | 393.0 | 392.9 | 392.6 | 392.3 | 392.0 | 391.7 | 392.0 |
| 150°   | 400.5 | 400.9 | 401.4 | 401.8 | 402.0 | 401.8 | 401.5 | 401.1 | 400.8 | 400.4 | 400.8 |
| 152.5° | 408.6 | 409.0 | 409.5 | 409.9 | 410.1 | 409.8 | 409.3 | 408.8 | 408.3 | 407.8 | 408.3 |
| 155°   | 415.7 | 416.1 | 416.6 | 417.0 | 417.2 | 416.9 | 416.3 | 415.8 | 415.2 | 414.6 | 415.2 |
| 157.5° | 421.9 | 422.4 | 422.9 | 423.4 | 423.6 | 423.3 | 422.8 | 422.2 | 421.7 | 421.1 | 421.7 |
| 160°   | 427.3 | 427.7 | 428.2 | 428.6 | 428.8 | 428.5 | 428.0 | 427.5 | 427.0 | 426.5 | 427.0 |
| 162.5° | 432.2 | 432.7 | 433.2 | 433.7 | 434.0 | 433.7 | 433.0 | 432.3 | 431.7 | 431.0 | 431.7 |
| 165°   | 436.1 | 436.6 | 437.1 | 437.6 | 437.8 | 437.6 | 437.1 | 436.6 | 436.1 | 435.6 | 436.1 |
| 167.5° | 439.6 | 440.1 | 440.6 | 441.1 | 441.4 | 441.1 | 440.4 | 439.8 | 439.1 | 438.5 | 439.1 |
| 170°   | 442.2 | 442.7 | 443.2 | 443.7 | 443.9 | 443.6 | 442.9 | 442.3 | 441.6 | 441.0 | 441.6 |
| 172.5° | 444.1 | 444.6 | 445.1 | 445.6 | 445.9 | 445.6 | 444.9 | 444.3 | 443.6 | 443.0 | 443.6 |
| 175°   | 445.4 | 445.9 | 446.4 | 446.9 | 447.2 | 446.8 | 446.1 | 445.4 | 444.6 | 443.9 | 444.6 |
| 177.5° | 445.7 | 446.2 | 446.7 | 447.2 | 447.5 | 447.2 | 446.5 | 445.9 | 445.2 | 444.6 | 445.2 |
| 180°   | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 |

TEST NUMBER: P998741

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**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1402.8 | 1395.7 | 1389.6 | 1390.6 | 1395.7 | 1391.6 | 1381.5 | 1368.2 | 1363.2 | 1357.1 | 1363.2 |
| 5°     | 1487.3 | 1481.2 | 1469.0 | 1470.0 | 1466.9 | 1462.8 | 1446.6 | 1426.2 | 1426.2 | 1409.9 | 1407.9 |
| 7.5°   | 1570.7 | 1561.5 | 1553.4 | 1551.4 | 1540.2 | 1532.0 | 1517.8 | 1489.3 | 1478.1 | 1458.8 | 1447.6 |
| 10°    | 1664.3 | 1657.1 | 1648.0 | 1636.8 | 1630.7 | 1616.5 | 1593.1 | 1551.4 | 1531.0 | 1504.6 | 1485.2 |
| 12.5°  | 1758.9 | 1757.9 | 1737.5 | 1715.1 | 1714.1 | 1691.7 | 1675.5 | 1619.5 | 1592.0 | 1556.4 | 1510.7 |
| 15°    | 1818.9 | 1813.8 | 1802.6 | 1791.4 | 1794.5 | 1770.1 | 1733.4 | 1667.3 | 1649.0 | 1606.3 | 1557.5 |
| 17.5°  | 1817.9 | 1817.9 | 1814.8 | 1812.8 | 1809.7 | 1802.6 | 1782.3 | 1738.5 | 1709.0 | 1655.1 | 1609.3 |
| 20°    | 1759.9 | 1773.1 | 1776.2 | 1775.2 | 1785.3 | 1790.4 | 1789.4 | 1761.9 | 1738.5 | 1690.7 | 1643.9 |
| 22.5°  | 1643.9 | 1674.4 | 1687.7 | 1695.8 | 1717.2 | 1728.4 | 1754.8 | 1744.6 | 1738.5 | 1702.9 | 1663.3 |
| 25°    | 1536.1 | 1546.3 | 1585.9 | 1588.0 | 1617.5 | 1644.9 | 1671.4 | 1688.7 | 1711.1 | 1697.8 | 1664.3 |
| 27.5°  | 1396.7 | 1420.1 | 1448.6 | 1470.0 | 1476.1 | 1532.0 | 1575.8 | 1608.3 | 1659.2 | 1663.3 | 1652.1 |
| 30°    | 1239.0 | 1250.2 | 1297.0 | 1325.5 | 1358.1 | 1398.8 | 1461.8 | 1517.8 | 1563.6 | 1605.3 | 1619.5 |
| 32.5°  | 1046.8 | 1092.6 | 1120.0 | 1154.6 | 1183.1 | 1255.3 | 1332.6 | 1404.9 | 1457.8 | 1528.0 | 1558.5 |
| 35°    | 870.8  | 906.4  | 953.2  | 967.4  | 1019.3 | 1080.4 | 1181.1 | 1273.6 | 1354.0 | 1425.2 | 1487.3 |
| 37.5°  | 725.3  | 753.8  | 803.7  | 826.0  | 856.5  | 934.9  | 1019.3 | 1134.3 | 1230.9 | 1318.4 | 1395.7 |
| 40°    | 625.6  | 647.0  | 684.6  | 691.7  | 717.2  | 788.4  | 856.5  | 964.4  | 1092.6 | 1210.6 | 1295.0 |
| 42.5°  | 557.5  | 567.6  | 593.1  | 602.2  | 618.5  | 666.3  | 727.4  | 829.1  | 948.1  | 1070.2 | 1189.2 |
| 45°    | 508.6  | 515.8  | 531.0  | 539.2  | 559.5  | 580.9  | 630.7  | 712.1  | 805.7  | 928.8  | 1057.0 |
| 47.5°  | 464.9  | 474.1  | 480.2  | 485.2  | 496.4  | 519.8  | 552.4  | 612.4  | 701.9  | 814.8  | 938.9  |
| 50°    | 428.3  | 431.3  | 442.5  | 443.5  | 450.7  | 465.9  | 496.4  | 533.1  | 604.3  | 695.8  | 815.9  |
| 52.5°  | 391.7  | 394.7  | 401.8  | 408.9  | 412.0  | 424.2  | 444.6  | 475.1  | 528.0  | 600.2  | 707.0  |
| 55°    | 355.0  | 359.1  | 366.2  | 371.3  | 374.4  | 384.5  | 396.7  | 426.2  | 467.9  | 518.8  | 606.3  |
| 57.5°  | 318.4  | 327.6  | 329.6  | 332.7  | 337.7  | 348.9  | 360.1  | 377.4  | 410.0  | 456.8  | 520.8  |
| 60°    | 283.8  | 286.9  | 294.0  | 297.0  | 302.1  | 308.2  | 322.5  | 335.7  | 359.1  | 395.7  | 453.7  |
| 62.5°  | 248.2  | 255.3  | 258.4  | 261.4  | 265.5  | 272.6  | 281.8  | 296.0  | 316.4  | 345.9  | 391.7  |
| 65°    | 217.7  | 218.7  | 224.8  | 228.9  | 233.0  | 238.0  | 247.2  | 260.4  | 272.6  | 300.1  | 333.7  |
| 67.5°  | 188.2  | 190.2  | 192.3  | 196.3  | 201.4  | 206.5  | 214.6  | 221.8  | 237.0  | 255.3  | 281.8  |
| 70°    | 159.7  | 159.7  | 164.8  | 167.9  | 166.8  | 172.9  | 179.0  | 187.2  | 198.4  | 215.7  | 237.0  |
| 72.5°  | 134.3  | 133.3  | 137.3  | 138.3  | 140.4  | 144.5  | 148.5  | 156.7  | 162.8  | 176.0  | 192.3  |
| 75°    | 106.8  | 108.8  | 110.9  | 110.9  | 113.9  | 117.0  | 121.1  | 125.1  | 132.2  | 140.4  | 152.6  |
| 77.5°  | 84.4   | 84.4   | 86.5   | 87.5   | 90.5   | 89.5   | 93.6   | 97.7   | 102.7  | 109.9  | 119.0  |
| 80°    | 62.1   | 64.1   | 64.1   | 64.1   | 65.1   | 66.1   | 70.2   | 73.2   | 76.3   | 81.4   | 85.5   |
| 82.5°  | 43.7   | 43.7   | 45.8   | 45.8   | 45.8   | 47.8   | 47.8   | 48.8   | 50.9   | 53.9   | 57.0   |
| 85°    | 27.5   | 27.5   | 27.5   | 28.5   | 27.5   | 28.5   | 30.5   | 29.5   | 30.5   | 32.6   | 32.6   |
| 87.5°  | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 14.2   | 13.2   | 14.2   | 15.3   | 15.3   | 15.3   |
| 90°    | 8.4    | 8.3    | 8.2    | 8.1    | 7.9    | 7.5    | 7.2    | 6.8    | 6.4    | 5.8    | 5.3    |
| 92.5°  | 8.6    | 8.5    | 8.4    | 8.4    | 8.3    | 8.2    | 8.0    | 7.9    | 7.7    | 7.5    | 7.3    |
| 95°    | 14.0   | 14.1   | 14.2   | 14.2   | 14.0   | 13.7   | 13.3   | 13.0   | 12.6   | 12.1   | 11.6   |
| 97.5°  | 17.6   | 17.5   | 17.4   | 17.4   | 17.3   | 17.1   | 16.8   | 16.6   | 16.4   | 15.3   | 14.1   |
| 100°   | 21.3   | 21.2   | 21.1   | 21.0   | 20.7   | 20.1   | 19.6   | 19.0   | 18.4   | 17.2   | 16.0   |
| 102.5° | 23.1   | 22.9   | 22.7   | 22.6   | 22.2   | 21.4   | 20.6   | 19.8   | 19.0   | 32.0   | 45.1   |
| 105°   | 23.9   | 23.6   | 23.3   | 23.2   | 22.8   | 22.0   | 21.3   | 20.5   | 19.7   | 39.3   | 58.8   |
| 107.5° | 24.6   | 24.3   | 24.0   | 23.9   | 23.5   | 22.7   | 21.9   | 21.1   | 20.3   | 44.5   | 68.6   |
| 110°   | 24.9   | 24.6   | 24.3   | 24.2   | 27.8   | 34.9   | 42.1   | 49.2   | 56.4   | 77.1   | 97.8   |

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CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 25.4  | 25.1  | 24.9  | 24.8   | 40.2  | 71.1  | 102.0 | 132.9 | 163.8 | 165.0 | 166.2 |
| 115°   | 36.7  | 41.9  | 47.0  | 49.6   | 66.2  | 99.4  | 132.5 | 165.7 | 198.9 | 197.1 | 195.3 |
| 117.5° | 123.3 | 142.1 | 160.8 | 170.2  | 175.3 | 185.6 | 195.8 | 206.1 | 216.3 | 215.1 | 213.9 |
| 120°   | 216.0 | 225.7 | 235.4 | 240.2  | 239.8 | 238.9 | 238.0 | 237.2 | 236.3 | 235.0 | 233.7 |
| 122.5° | 257.5 | 257.4 | 257.3 | 257.3  | 257.1 | 256.6 | 256.2 | 255.7 | 255.3 | 253.9 | 252.5 |
| 125°   | 275.3 | 275.0 | 274.8 | 274.7  | 274.4 | 273.9 | 273.4 | 272.9 | 272.4 | 271.0 | 269.7 |
| 127.5° | 291.6 | 291.5 | 291.4 | 291.4  | 291.0 | 290.3 | 289.6 | 288.9 | 288.2 | 287.1 | 286.1 |
| 130°   | 306.7 | 306.8 | 306.9 | 306.9  | 306.5 | 305.7 | 305.0 | 304.2 | 303.4 | 302.6 | 301.8 |
| 132.5° | 321.2 | 321.3 | 321.4 | 321.4  | 321.1 | 320.4 | 319.8 | 319.1 | 318.5 | 317.7 | 316.9 |
| 135°   | 335.3 | 335.4 | 335.5 | 335.6  | 335.2 | 334.5 | 333.8 | 333.1 | 332.4 | 331.8 | 331.1 |
| 137.5° | 348.3 | 348.5 | 348.7 | 348.8  | 348.4 | 347.7 | 347.0 | 346.3 | 345.6 | 344.9 | 344.2 |
| 140°   | 360.5 | 360.9 | 361.2 | 361.4  | 361.1 | 360.4 | 359.8 | 359.1 | 358.5 | 357.7 | 356.9 |
| 142.5° | 372.1 | 372.5 | 372.8 | 373.0  | 372.7 | 372.1 | 371.6 | 371.0 | 370.4 | 369.5 | 368.5 |
| 145°   | 382.8 | 383.1 | 383.5 | 383.7  | 383.4 | 382.9 | 382.4 | 381.9 | 381.4 | 380.2 | 379.0 |
| 147.5° | 392.3 | 392.6 | 392.9 | 393.0  | 392.8 | 392.5 | 392.1 | 391.8 | 391.4 | 390.2 | 389.0 |
| 150°   | 401.1 | 401.5 | 401.8 | 402.0  | 401.8 | 401.4 | 400.9 | 400.5 | 400.1 | 398.9 | 397.8 |
| 152.5° | 408.8 | 409.3 | 409.8 | 410.1  | 409.9 | 409.5 | 409.0 | 408.6 | 408.2 | 407.1 | 406.0 |
| 155°   | 415.8 | 416.3 | 416.9 | 417.2  | 417.0 | 416.6 | 416.1 | 415.7 | 415.3 | 414.4 | 413.6 |
| 157.5° | 422.2 | 422.8 | 423.3 | 423.6  | 423.4 | 422.9 | 422.4 | 421.9 | 421.4 | 420.8 | 420.1 |
| 160°   | 427.5 | 428.0 | 428.5 | 428.8  | 428.6 | 428.2 | 427.7 | 427.3 | 426.9 | 426.5 | 426.0 |
| 162.5° | 432.3 | 433.0 | 433.7 | 434.0  | 433.7 | 433.2 | 432.7 | 432.2 | 431.7 | 431.3 | 431.0 |
| 165°   | 436.6 | 437.1 | 437.6 | 437.8  | 437.6 | 437.1 | 436.6 | 436.1 | 435.6 | 435.4 | 435.2 |
| 167.5° | 439.8 | 440.4 | 441.1 | 441.4  | 441.1 | 440.6 | 440.1 | 439.6 | 439.1 | 438.9 | 438.7 |
| 170°   | 442.3 | 442.9 | 443.6 | 443.9  | 443.7 | 443.2 | 442.7 | 442.2 | 441.7 | 441.5 | 441.4 |
| 172.5° | 444.3 | 444.9 | 445.6 | 445.9  | 445.6 | 445.1 | 444.6 | 444.1 | 443.6 | 443.5 | 443.3 |
| 175°   | 445.4 | 446.1 | 446.8 | 447.2  | 446.9 | 446.4 | 445.9 | 445.4 | 444.9 | 444.8 | 444.6 |
| 177.5° | 445.9 | 446.5 | 447.2 | 447.5  | 447.2 | 446.7 | 446.2 | 445.7 | 445.2 | 445.1 | 445.1 |
| 180°   | 445.6 | 445.6 | 445.6 | 445.6  | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1358.1 | 1353.0 | 1349.9 | 1352.0 | 1345.9 | 1330.6 | 1330.6 | 1335.7 | 1329.6 | 1323.5 | 1314.3 |
| 5°     | 1395.7 | 1385.5 | 1379.4 | 1378.4 | 1364.2 | 1339.8 | 1334.7 | 1329.6 | 1316.4 | 1302.1 | 1286.9 |
| 7.5°   | 1432.3 | 1414.0 | 1403.8 | 1396.7 | 1376.4 | 1344.8 | 1331.6 | 1320.4 | 1299.1 | 1277.7 | 1258.4 |
| 10°    | 1462.8 | 1436.4 | 1424.2 | 1413.0 | 1386.6 | 1346.9 | 1325.5 | 1305.2 | 1277.7 | 1250.2 | 1225.8 |
| 12.5°  | 1487.3 | 1456.7 | 1441.5 | 1425.2 | 1392.7 | 1340.8 | 1314.3 | 1281.8 | 1254.3 | 1217.7 | 1193.3 |
| 15°    | 1528.0 | 1464.9 | 1450.6 | 1435.4 | 1401.8 | 1330.6 | 1298.0 | 1261.4 | 1223.8 | 1175.0 | 1148.5 |
| 17.5°  | 1560.5 | 1476.1 | 1475.1 | 1442.5 | 1398.8 | 1326.5 | 1276.7 | 1228.9 | 1188.2 | 1139.4 | 1097.6 |
| 20°    | 1579.8 | 1493.4 | 1477.1 | 1443.5 | 1388.6 | 1299.1 | 1247.2 | 1194.3 | 1150.5 | 1091.5 | 1049.8 |
| 22.5°  | 1596.1 | 1517.8 | 1475.1 | 1434.4 | 1367.2 | 1289.9 | 1213.6 | 1163.8 | 1103.7 | 1039.7 | 1000.0 |
| 25°    | 1602.2 | 1522.9 | 1478.1 | 1431.3 | 1352.0 | 1263.5 | 1177.0 | 1123.1 | 1055.9 | 998.0  | 944.0  |
| 27.5°  | 1603.2 | 1521.8 | 1466.9 | 1418.1 | 1330.6 | 1228.9 | 1140.4 | 1083.4 | 1009.1 | 942.0  | 888.1  |
| 30°    | 1593.1 | 1510.7 | 1460.8 | 1407.9 | 1310.3 | 1197.3 | 1095.6 | 1032.5 | 953.2  | 886.1  | 830.1  |
| 32.5°  | 1562.5 | 1488.3 | 1447.6 | 1389.6 | 1283.8 | 1153.6 | 1052.9 | 982.7  | 899.3  | 833.2  | 779.2  |
| 35°    | 1511.7 | 1460.8 | 1416.1 | 1362.1 | 1249.2 | 1112.9 | 1010.2 | 927.8  | 843.3  | 780.3  | 729.4  |
| 37.5°  | 1448.6 | 1421.1 | 1379.4 | 1326.5 | 1209.5 | 1076.3 | 962.3  | 870.8  | 786.4  | 725.3  | 675.5  |
| 40°    | 1363.2 | 1370.3 | 1329.6 | 1281.8 | 1162.7 | 1026.4 | 900.3  | 812.8  | 733.5  | 676.5  | 627.7  |
| 42.5°  | 1270.6 | 1300.1 | 1276.7 | 1230.9 | 1110.9 | 971.5  | 854.5  | 757.9  | 680.6  | 621.6  | 580.9  |
| 45°    | 1170.9 | 1221.8 | 1207.5 | 1173.9 | 1057.0 | 913.5  | 789.4  | 695.8  | 627.7  | 570.7  | 535.1  |
| 47.5°  | 1062.0 | 1134.3 | 1134.3 | 1109.9 | 996.9  | 855.5  | 733.5  | 637.8  | 570.7  | 530.0  | 495.4  |
| 50°    | 951.2  | 1032.5 | 1045.8 | 1029.5 | 929.8  | 789.4  | 665.3  | 578.8  | 520.8  | 481.2  | 455.7  |
| 52.5°  | 835.2  | 929.8  | 954.2  | 946.1  | 858.6  | 726.3  | 609.4  | 524.9  | 472.0  | 437.4  | 415.0  |
| 55°    | 724.3  | 834.2  | 860.6  | 863.7  | 782.3  | 657.2  | 547.3  | 473.0  | 422.2  | 398.8  | 379.4  |
| 57.5°  | 619.5  | 725.3  | 754.8  | 759.9  | 705.0  | 594.1  | 489.3  | 424.2  | 378.4  | 359.1  | 343.8  |
| 60°    | 530.0  | 618.5  | 657.2  | 668.4  | 620.5  | 520.8  | 435.4  | 372.3  | 337.7  | 319.4  | 305.2  |
| 62.5°  | 456.8  | 528.0  | 568.7  | 571.7  | 550.3  | 456.8  | 379.4  | 326.5  | 297.0  | 280.8  | 273.6  |
| 65°    | 385.5  | 449.6  | 474.1  | 486.3  | 469.0  | 395.7  | 327.6  | 283.8  | 260.4  | 246.2  | 239.1  |
| 67.5°  | 328.6  | 369.3  | 389.6  | 405.9  | 388.6  | 333.7  | 278.7  | 243.1  | 225.8  | 211.6  | 207.5  |
| 70°    | 269.6  | 303.1  | 318.4  | 334.7  | 319.4  | 277.7  | 238.0  | 205.5  | 190.2  | 179.0  | 174.0  |
| 72.5°  | 215.7  | 242.1  | 256.4  | 266.5  | 257.4  | 222.8  | 190.2  | 167.9  | 156.7  | 148.5  | 145.5  |
| 75°    | 170.9  | 189.2  | 197.4  | 204.5  | 200.4  | 174.0  | 153.6  | 135.3  | 125.1  | 118.0  | 116.0  |
| 77.5°  | 130.2  | 143.4  | 152.6  | 154.6  | 149.5  | 132.2  | 115.0  | 103.8  | 95.6   | 91.6   | 89.5   |
| 80°    | 92.6   | 100.7  | 105.8  | 108.8  | 103.8  | 96.6   | 84.4   | 76.3   | 69.2   | 64.1   | 63.1   |
| 82.5°  | 62.1   | 66.1   | 70.2   | 69.2   | 67.1   | 61.0   | 53.9   | 49.8   | 46.8   | 42.7   | 42.7   |
| 85°    | 35.6   | 36.6   | 38.7   | 39.7   | 38.7   | 34.6   | 30.5   | 28.5   | 26.4   | 23.4   | 23.4   |
| 87.5°  | 15.3   | 16.3   | 16.3   | 17.3   | 15.3   | 15.3   | 13.2   | 11.2   | 11.2   | 10.2   | 9.2    |
| 90°    | 4.7    | 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°    | 11.1   | 10.6   | 10.3   | 11.5   | 13.9   | 16.2   | 18.6   | 21.0   | 18.6   | 16.2   | 13.9   |
| 97.5°  | 13.0   | 11.9   | 11.3   | 14.2   | 20.1   | 26.0   | 31.8   | 37.7   | 31.8   | 26.0   | 20.1   |
| 100°   | 14.7   | 13.5   | 12.9   | 17.8   | 27.6   | 37.5   | 47.3   | 57.1   | 47.3   | 37.5   | 27.6   |
| 102.5° | 58.1   | 71.2   | 77.7   | 77.8   | 77.9   | 78.0   | 78.2   | 78.3   | 78.2   | 78.0   | 77.9   |
| 105°   | 78.4   | 97.9   | 107.7  | 106.6  | 104.5  | 102.3  | 100.2  | 98.0   | 100.2  | 102.3  | 104.5  |
| 107.5° | 92.8   | 116.9  | 129.0  | 128.1  | 126.3  | 124.5  | 122.7  | 120.9  | 122.7  | 124.5  | 126.3  |
| 110°   | 118.5  | 139.2  | 149.6  | 148.8  | 147.3  | 145.8  | 144.3  | 142.8  | 144.3  | 145.8  | 147.3  |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  |
|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 167.5 | 168.7 | 169.3  | 168.7 | 167.4 | 166.1 | 164.8 | 163.5 | 164.8 | 166.1 | 167.4 |
| 115°   | 193.6 | 191.8 | 190.9  | 190.3 | 189.1 | 187.8 | 186.6 | 185.4 | 186.6 | 187.8 | 189.1 |
| 117.5° | 212.6 | 211.4 | 210.8  | 210.1 | 208.7 | 207.2 | 205.8 | 204.4 | 205.8 | 207.2 | 208.7 |
| 120°   | 232.4 | 231.1 | 230.5  | 230.0 | 228.9 | 227.8 | 226.8 | 225.7 | 226.8 | 227.8 | 228.9 |
| 122.5° | 251.0 | 249.6 | 248.9  | 248.3 | 247.2 | 246.0 | 244.9 | 243.7 | 244.9 | 246.0 | 247.2 |
| 125°   | 268.3 | 267.0 | 266.3  | 265.8 | 264.9 | 264.0 | 263.0 | 262.1 | 263.0 | 264.0 | 264.9 |
| 127.5° | 285.0 | 283.9 | 283.4  | 282.9 | 281.9 | 280.9 | 279.9 | 278.9 | 279.9 | 280.9 | 281.9 |
| 130°   | 301.0 | 300.2 | 299.8  | 299.2 | 298.1 | 297.0 | 295.8 | 294.7 | 295.8 | 297.0 | 298.1 |
| 132.5° | 316.2 | 315.4 | 315.0  | 314.5 | 313.6 | 312.7 | 311.7 | 310.8 | 311.7 | 312.7 | 313.6 |
| 135°   | 330.5 | 329.8 | 329.5  | 328.9 | 327.8 | 326.6 | 325.5 | 324.3 | 325.5 | 326.6 | 327.8 |
| 137.5° | 343.5 | 342.8 | 342.4  | 342.0 | 341.1 | 340.2 | 339.4 | 338.5 | 339.4 | 340.2 | 341.1 |
| 140°   | 356.2 | 355.4 | 355.0  | 354.7 | 354.1 | 353.6 | 353.0 | 352.4 | 353.0 | 353.6 | 354.1 |
| 142.5° | 367.6 | 366.7 | 366.2  | 366.0 | 365.5 | 365.0 | 364.5 | 364.0 | 364.5 | 365.0 | 365.5 |
| 145°   | 377.7 | 376.5 | 375.9  | 375.9 | 376.0 | 376.1 | 376.1 | 376.2 | 376.1 | 376.1 | 376.0 |
| 147.5° | 387.7 | 386.5 | 385.9  | 386.0 | 386.2 | 386.5 | 386.7 | 386.9 | 386.7 | 386.5 | 386.2 |
| 150°   | 396.6 | 395.5 | 394.9  | 395.2 | 395.7 | 396.2 | 396.7 | 397.2 | 396.7 | 396.2 | 395.7 |
| 152.5° | 404.9 | 403.8 | 403.3  | 403.6 | 404.2 | 404.7 | 405.3 | 405.9 | 405.3 | 404.7 | 404.2 |
| 155°   | 412.7 | 411.8 | 411.4  | 411.7 | 412.4 | 413.0 | 413.7 | 414.3 | 413.7 | 413.0 | 412.4 |
| 157.5° | 419.5 | 418.8 | 418.5  | 418.8 | 419.4 | 419.9 | 420.5 | 421.1 | 420.5 | 419.9 | 419.4 |
| 160°   | 425.6 | 425.1 | 424.9  | 425.1 | 425.6 | 426.0 | 426.5 | 426.9 | 426.5 | 426.0 | 425.6 |
| 162.5° | 430.6 | 430.3 | 430.1  | 430.3 | 430.7 | 431.2 | 431.6 | 432.0 | 431.6 | 431.2 | 430.7 |
| 165°   | 434.9 | 434.7 | 434.6  | 434.8 | 435.2 | 435.7 | 436.1 | 436.5 | 436.1 | 435.7 | 435.2 |
| 167.5° | 438.4 | 438.2 | 438.1  | 438.3 | 438.8 | 439.2 | 439.7 | 440.1 | 439.7 | 439.2 | 438.8 |
| 170°   | 441.2 | 441.1 | 441.0  | 441.2 | 441.7 | 442.1 | 442.6 | 443.0 | 442.6 | 442.1 | 441.7 |
| 172.5° | 443.2 | 443.1 | 443.0  | 443.2 | 443.6 | 444.1 | 444.5 | 444.9 | 444.5 | 444.1 | 443.6 |
| 175°   | 444.5 | 444.4 | 444.3  | 444.5 | 445.0 | 445.5 | 446.0 | 446.5 | 446.0 | 445.5 | 445.0 |
| 177.5° | 445.0 | 444.9 | 444.9  | 445.2 | 445.7 | 446.2 | 446.7 | 447.2 | 446.7 | 446.2 | 445.7 |
| 180°   | 445.6 | 445.6 | 445.6  | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1309.2 | 1314.3 | 1313.3 | 1303.1 | 1291.9 | 1282.8 | 1265.5 | 1267.5 | 1261.4 | 1262.4 | 1268.5 |
| 5°     | 1276.7 | 1276.7 | 1272.6 | 1258.4 | 1240.1 | 1229.9 | 1210.6 | 1205.5 | 1193.3 | 1192.3 | 1191.2 |
| 7.5°   | 1242.1 | 1237.0 | 1231.9 | 1211.6 | 1189.2 | 1172.9 | 1146.5 | 1140.4 | 1128.2 | 1120.0 | 1116.0 |
| 10°    | 1201.4 | 1194.3 | 1184.1 | 1160.7 | 1133.2 | 1112.9 | 1085.4 | 1077.3 | 1053.9 | 1043.7 | 1037.6 |
| 12.5°  | 1156.6 | 1152.6 | 1136.3 | 1117.0 | 1072.2 | 1049.8 | 1010.2 | 1018.3 | 994.9  | 974.6  | 971.5  |
| 15°    | 1111.9 | 1096.6 | 1087.5 | 1055.9 | 1002.0 | 991.8  | 960.3  | 944.0  | 922.7  | 906.4  | 906.4  |
| 17.5°  | 1068.1 | 1044.7 | 1024.4 | 990.8  | 951.2  | 922.7  | 899.3  | 891.1  | 864.7  | 848.4  | 845.4  |
| 20°    | 1010.2 | 983.7  | 978.6  | 930.8  | 903.3  | 871.8  | 849.4  | 829.1  | 809.8  | 802.6  | 797.5  |
| 22.5°  | 955.2  | 924.7  | 916.6  | 875.9  | 848.4  | 816.9  | 794.5  | 780.3  | 766.0  | 760.9  | 751.8  |
| 25°    | 896.2  | 877.9  | 865.7  | 822.0  | 791.4  | 761.9  | 746.7  | 736.5  | 723.3  | 722.3  | 716.2  |
| 27.5°  | 839.3  | 822.0  | 809.8  | 768.0  | 745.7  | 718.2  | 706.0  | 694.8  | 687.7  | 684.6  | 681.6  |
| 30°    | 790.4  | 771.1  | 756.9  | 726.3  | 698.9  | 676.5  | 666.3  | 659.2  | 655.1  | 650.0  | 649.0  |
| 32.5°  | 736.5  | 725.3  | 706.0  | 682.6  | 661.2  | 639.9  | 633.8  | 628.7  | 622.6  | 620.5  | 619.5  |
| 35°    | 690.7  | 675.5  | 663.3  | 636.8  | 627.7  | 609.4  | 602.2  | 598.2  | 590.0  | 588.0  | 586.0  |
| 37.5°  | 646.0  | 631.7  | 618.5  | 602.2  | 584.9  | 574.8  | 570.7  | 564.6  | 560.5  | 561.5  | 559.5  |
| 40°    | 601.2  | 590.0  | 579.8  | 562.6  | 552.4  | 547.3  | 539.2  | 533.1  | 531.0  | 532.0  | 531.0  |
| 42.5°  | 557.5  | 547.3  | 541.2  | 528.0  | 517.8  | 512.7  | 507.6  | 501.5  | 504.6  | 504.6  | 507.6  |
| 45°    | 517.8  | 508.6  | 504.6  | 494.4  | 488.3  | 480.2  | 475.1  | 474.1  | 478.1  | 477.1  | 477.1  |
| 47.5°  | 477.1  | 474.1  | 469.0  | 459.8  | 451.7  | 446.6  | 445.6  | 445.6  | 449.6  | 451.7  | 450.7  |
| 50°    | 445.6  | 439.5  | 433.4  | 426.2  | 420.1  | 418.1  | 415.0  | 417.1  | 421.2  | 421.2  | 423.2  |
| 52.5°  | 405.9  | 401.8  | 399.8  | 393.7  | 389.6  | 389.6  | 389.6  | 390.6  | 393.7  | 396.7  | 395.7  |
| 55°    | 371.3  | 368.3  | 366.2  | 363.2  | 358.1  | 359.1  | 358.1  | 360.1  | 363.2  | 366.2  | 368.3  |
| 57.5°  | 334.7  | 333.7  | 331.6  | 326.5  | 326.5  | 325.5  | 328.6  | 329.6  | 334.7  | 336.7  | 339.8  |
| 60°    | 302.1  | 299.1  | 299.1  | 295.0  | 295.0  | 295.0  | 298.1  | 301.1  | 305.2  | 306.2  | 308.2  |
| 62.5°  | 267.5  | 267.5  | 266.5  | 263.5  | 263.5  | 266.5  | 267.5  | 271.6  | 273.6  | 273.6  | 276.7  |
| 65°    | 235.0  | 234.0  | 233.0  | 234.0  | 235.0  | 235.0  | 238.0  | 240.1  | 242.1  | 243.1  | 244.1  |
| 67.5°  | 202.4  | 201.4  | 203.5  | 202.4  | 204.5  | 208.5  | 207.5  | 210.6  | 213.6  | 213.6  | 214.6  |
| 70°    | 171.9  | 174.0  | 172.9  | 175.0  | 174.0  | 176.0  | 179.0  | 180.1  | 180.1  | 181.1  | 184.1  |
| 72.5°  | 143.4  | 143.4  | 143.4  | 142.4  | 143.4  | 145.5  | 147.5  | 148.5  | 150.6  | 151.6  | 154.6  |
| 75°    | 116.0  | 116.0  | 113.9  | 116.0  | 116.0  | 118.0  | 120.0  | 120.0  | 120.0  | 122.1  | 125.1  |
| 77.5°  | 87.5   | 88.5   | 87.5   | 89.5   | 89.5   | 90.5   | 92.6   | 91.6   | 93.6   | 94.6   | 95.6   |
| 80°    | 64.1   | 63.1   | 63.1   | 63.1   | 64.1   | 64.1   | 66.1   | 67.1   | 67.1   | 70.2   | 68.2   |
| 82.5°  | 40.7   | 41.7   | 40.7   | 41.7   | 41.7   | 42.7   | 41.7   | 42.7   | 43.7   | 45.8   | 44.8   |
| 85°    | 23.4   | 22.4   | 22.4   | 23.4   | 22.4   | 22.4   | 23.4   | 22.4   | 23.4   | 22.4   | 23.4   |
| 87.5°  | 9.2    | 8.1    | 8.1    | 8.1    | 8.1    | 7.1    | 7.1    | 6.1    | 6.1    | 6.1    | 5.1    |
| 90°    | 3.5    | 3.9    | 4.2    | 4.7    | 5.3    | 5.8    | 6.4    | 6.8    | 7.2    | 7.5    | 7.9    |
| 92.5°  | 6.9    | 6.8    | 6.9    | 7.1    | 7.3    | 7.5    | 7.7    | 7.9    | 8.0    | 8.2    | 8.3    |
| 95°    | 11.5   | 10.3   | 10.6   | 11.1   | 11.6   | 12.1   | 12.6   | 13.0   | 13.3   | 13.7   | 14.0   |
| 97.5°  | 14.2   | 11.3   | 11.9   | 13.0   | 14.1   | 15.3   | 16.4   | 16.6   | 16.8   | 17.1   | 17.3   |
| 100°   | 17.8   | 12.9   | 13.5   | 14.7   | 16.0   | 17.2   | 18.4   | 19.0   | 19.6   | 20.1   | 20.7   |
| 102.5° | 77.8   | 77.7   | 71.2   | 58.1   | 45.1   | 32.0   | 19.0   | 19.8   | 20.6   | 21.4   | 22.2   |
| 105°   | 106.6  | 107.7  | 97.9   | 78.4   | 58.8   | 39.3   | 19.7   | 20.5   | 21.3   | 22.0   | 22.8   |
| 107.5° | 128.1  | 129.0  | 116.9  | 92.8   | 68.6   | 44.5   | 20.3   | 21.1   | 21.9   | 22.7   | 23.5   |
| 110°   | 148.8  | 149.6  | 139.2  | 118.5  | 97.8   | 77.1   | 56.4   | 49.2   | 42.1   | 34.9   | 27.8   |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 200°  | 202.5° | 205°  | 210°  | 215°  | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 168.7 | 169.3  | 168.7 | 167.5 | 166.2 | 165.0 | 163.8 | 132.9 | 102.0 | 71.1  | 40.2  |
| 115°   | 190.3 | 190.9  | 191.8 | 193.6 | 195.3 | 197.1 | 198.9 | 165.7 | 132.5 | 99.4  | 66.2  |
| 117.5° | 210.1 | 210.8  | 211.4 | 212.6 | 213.9 | 215.1 | 216.3 | 206.1 | 195.8 | 185.6 | 175.3 |
| 120°   | 230.0 | 230.5  | 231.1 | 232.4 | 233.7 | 235.0 | 236.3 | 237.2 | 238.0 | 238.9 | 239.8 |
| 122.5° | 248.3 | 248.9  | 249.6 | 251.0 | 252.5 | 253.9 | 255.3 | 255.7 | 256.2 | 256.6 | 257.1 |
| 125°   | 265.8 | 266.3  | 267.0 | 268.3 | 269.7 | 271.0 | 272.4 | 272.9 | 273.4 | 273.9 | 274.4 |
| 127.5° | 282.9 | 283.4  | 283.9 | 285.0 | 286.1 | 287.1 | 288.2 | 288.9 | 289.6 | 290.3 | 291.0 |
| 130°   | 299.2 | 299.8  | 300.2 | 301.0 | 301.8 | 302.6 | 303.4 | 304.2 | 305.0 | 305.7 | 306.5 |
| 132.5° | 314.5 | 315.0  | 315.4 | 316.2 | 316.9 | 317.7 | 318.5 | 319.1 | 319.8 | 320.4 | 321.1 |
| 135°   | 328.9 | 329.5  | 329.8 | 330.5 | 331.1 | 331.8 | 332.4 | 333.1 | 333.8 | 334.5 | 335.2 |
| 137.5° | 342.0 | 342.4  | 342.8 | 343.5 | 344.2 | 344.9 | 345.6 | 346.3 | 347.0 | 347.7 | 348.4 |
| 140°   | 354.7 | 355.0  | 355.4 | 356.2 | 356.9 | 357.7 | 358.5 | 359.1 | 359.8 | 360.4 | 361.1 |
| 142.5° | 366.0 | 366.2  | 366.7 | 367.6 | 368.5 | 369.5 | 370.4 | 371.0 | 371.6 | 372.1 | 372.7 |
| 145°   | 375.9 | 375.9  | 376.5 | 377.7 | 379.0 | 380.2 | 381.4 | 381.9 | 382.4 | 382.9 | 383.4 |
| 147.5° | 386.0 | 385.9  | 386.5 | 387.7 | 389.0 | 390.2 | 391.4 | 391.8 | 392.1 | 392.5 | 392.8 |
| 150°   | 395.2 | 394.9  | 395.5 | 396.6 | 397.8 | 398.9 | 400.1 | 400.5 | 400.9 | 401.4 | 401.8 |
| 152.5° | 403.6 | 403.3  | 403.8 | 404.9 | 406.0 | 407.1 | 408.2 | 408.6 | 409.0 | 409.5 | 409.9 |
| 155°   | 411.7 | 411.4  | 411.8 | 412.7 | 413.6 | 414.4 | 415.3 | 415.7 | 416.1 | 416.6 | 417.0 |
| 157.5° | 418.8 | 418.5  | 418.8 | 419.5 | 420.1 | 420.8 | 421.4 | 421.9 | 422.4 | 422.9 | 423.4 |
| 160°   | 425.1 | 424.9  | 425.1 | 425.6 | 426.0 | 426.5 | 426.9 | 427.3 | 427.7 | 428.2 | 428.6 |
| 162.5° | 430.3 | 430.1  | 430.3 | 430.6 | 431.0 | 431.3 | 431.7 | 432.2 | 432.7 | 433.2 | 433.7 |
| 165°   | 434.8 | 434.6  | 434.7 | 434.9 | 435.2 | 435.4 | 435.6 | 436.1 | 436.6 | 437.1 | 437.6 |
| 167.5° | 438.3 | 438.1  | 438.2 | 438.4 | 438.7 | 438.9 | 439.1 | 439.6 | 440.1 | 440.6 | 441.1 |
| 170°   | 441.2 | 441.0  | 441.1 | 441.2 | 441.4 | 441.5 | 441.7 | 442.2 | 442.7 | 443.2 | 443.7 |
| 172.5° | 443.2 | 443.0  | 443.1 | 443.2 | 443.3 | 443.5 | 443.6 | 444.1 | 444.6 | 445.1 | 445.6 |
| 175°   | 444.5 | 444.3  | 444.4 | 444.5 | 444.6 | 444.8 | 444.9 | 445.4 | 445.9 | 446.4 | 446.9 |
| 177.5° | 445.2 | 444.9  | 444.9 | 445.0 | 445.1 | 445.1 | 445.2 | 445.7 | 446.2 | 446.7 | 447.2 |
| 180°   | 445.6 | 445.6  | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1261.4 | 1264.5 | 1257.4 | 1255.3 | 1257.4 | 1250.2 | 1252.3 | 1254.3 | 1254.3 | 1257.4 | 1259.4 |
| 5°     | 1188.2 | 1184.1 | 1177.0 | 1175.0 | 1172.9 | 1176.0 | 1173.9 | 1177.0 | 1178.0 | 1185.1 | 1186.1 |
| 7.5°   | 1116.0 | 1109.9 | 1103.7 | 1097.6 | 1095.6 | 1090.5 | 1095.6 | 1095.6 | 1102.7 | 1100.7 | 1105.8 |
| 10°    | 1030.5 | 1029.5 | 1021.3 | 1018.3 | 1014.2 | 1006.1 | 1017.3 | 1014.2 | 1019.3 | 1028.5 | 1030.5 |
| 12.5°  | 967.4  | 956.2  | 961.3  | 947.1  | 952.2  | 944.0  | 945.1  | 945.1  | 953.2  | 954.2  | 952.2  |
| 15°    | 907.4  | 898.3  | 885.0  | 878.9  | 875.9  | 871.8  | 885.0  | 886.1  | 879.9  | 894.2  | 889.1  |
| 17.5°  | 846.4  | 846.4  | 834.2  | 831.1  | 823.0  | 827.0  | 825.0  | 826.0  | 824.0  | 834.2  | 839.3  |
| 20°    | 793.5  | 788.4  | 784.3  | 785.3  | 775.2  | 773.1  | 771.1  | 773.1  | 780.3  | 787.4  | 789.4  |
| 22.5°  | 750.8  | 747.7  | 737.5  | 739.6  | 731.4  | 734.5  | 732.4  | 737.5  | 738.5  | 738.5  | 745.7  |
| 25°    | 710.1  | 706.0  | 707.0  | 702.9  | 699.9  | 699.9  | 696.8  | 699.9  | 704.0  | 706.0  | 707.0  |
| 27.5°  | 679.5  | 676.5  | 671.4  | 668.4  | 670.4  | 665.3  | 669.4  | 672.4  | 672.4  | 670.4  | 672.4  |
| 30°    | 642.9  | 645.0  | 645.0  | 634.8  | 638.9  | 636.8  | 639.9  | 641.9  | 641.9  | 642.9  | 640.9  |
| 32.5°  | 618.5  | 612.4  | 611.4  | 610.4  | 610.4  | 606.3  | 606.3  | 609.4  | 610.4  | 611.4  | 614.4  |
| 35°    | 586.0  | 586.0  | 580.9  | 583.9  | 579.8  | 580.9  | 579.8  | 580.9  | 582.9  | 579.8  | 582.9  |
| 37.5°  | 556.5  | 557.5  | 555.4  | 557.5  | 558.5  | 556.5  | 554.4  | 558.5  | 556.5  | 556.5  | 554.4  |
| 40°    | 531.0  | 530.0  | 531.0  | 531.0  | 531.0  | 532.0  | 530.0  | 530.0  | 530.0  | 528.0  | 525.9  |
| 42.5°  | 509.7  | 503.6  | 505.6  | 506.6  | 503.6  | 503.6  | 504.6  | 503.6  | 506.6  | 500.5  | 500.5  |
| 45°    | 479.1  | 477.1  | 478.1  | 478.1  | 480.2  | 477.1  | 479.1  | 480.2  | 477.1  | 476.1  | 474.1  |
| 47.5°  | 451.7  | 453.7  | 451.7  | 453.7  | 453.7  | 455.7  | 451.7  | 452.7  | 453.7  | 449.6  | 446.6  |
| 50°    | 424.2  | 424.2  | 427.3  | 426.2  | 427.3  | 425.2  | 425.2  | 424.2  | 425.2  | 423.2  | 420.1  |
| 52.5°  | 398.8  | 395.7  | 400.8  | 399.8  | 398.8  | 397.8  | 396.7  | 397.8  | 395.7  | 393.7  | 393.7  |
| 55°    | 367.2  | 367.2  | 370.3  | 371.3  | 371.3  | 369.3  | 367.2  | 368.3  | 367.2  | 366.2  | 365.2  |
| 57.5°  | 341.8  | 337.7  | 339.8  | 340.8  | 340.8  | 337.7  | 339.8  | 337.7  | 337.7  | 338.8  | 335.7  |
| 60°    | 309.3  | 309.3  | 307.2  | 310.3  | 310.3  | 308.2  | 308.2  | 309.3  | 307.2  | 306.2  | 305.2  |
| 62.5°  | 274.7  | 275.7  | 278.7  | 279.8  | 280.8  | 278.7  | 276.7  | 277.7  | 277.7  | 274.7  | 275.7  |
| 65°    | 245.2  | 247.2  | 251.3  | 250.3  | 248.2  | 249.2  | 247.2  | 248.2  | 245.2  | 246.2  | 243.1  |
| 67.5°  | 216.7  | 215.7  | 216.7  | 216.7  | 218.7  | 217.7  | 215.7  | 215.7  | 214.6  | 217.7  | 214.6  |
| 70°    | 186.2  | 186.2  | 186.2  | 186.2  | 187.2  | 188.2  | 186.2  | 184.1  | 185.1  | 183.1  | 182.1  |
| 72.5°  | 154.6  | 155.6  | 154.6  | 156.7  | 153.6  | 155.6  | 155.6  | 154.6  | 153.6  | 153.6  | 153.6  |
| 75°    | 125.1  | 127.2  | 124.1  | 125.1  | 124.1  | 126.1  | 125.1  | 125.1  | 123.1  | 122.1  | 123.1  |
| 77.5°  | 95.6   | 96.6   | 94.6   | 95.6   | 94.6   | 95.6   | 95.6   | 94.6   | 94.6   | 94.6   | 94.6   |
| 80°    | 68.2   | 69.2   | 68.2   | 67.1   | 66.1   | 68.2   | 66.1   | 67.1   | 68.2   | 67.1   | 69.2   |
| 82.5°  | 43.7   | 43.7   | 42.7   | 43.7   | 41.7   | 41.7   | 42.7   | 42.7   | 41.7   | 43.7   | 41.7   |
| 85°    | 21.4   | 21.4   | 23.4   | 21.4   | 20.3   | 20.3   | 20.3   | 21.4   | 20.3   | 22.4   | 21.4   |
| 87.5°  | 5.1    | 4.1    | 5.1    | 5.1    | 4.1    | 4.1    | 5.1    | 4.1    | 5.1    | 6.1    | 4.1    |
| 90°    | 8.1    | 8.2    | 8.3    | 8.4    | 8.6    | 8.7    | 8.6    | 8.4    | 8.3    | 8.2    | 8.1    |
| 92.5°  | 8.4    | 8.4    | 8.5    | 8.6    | 8.6    | 8.7    | 8.6    | 8.6    | 8.5    | 8.4    | 8.4    |
| 95°    | 14.2   | 14.2   | 14.1   | 14.0   | 14.0   | 13.9   | 14.0   | 14.0   | 14.1   | 14.2   | 14.2   |
| 97.5°  | 17.4   | 17.4   | 17.5   | 17.6   | 17.6   | 17.7   | 17.6   | 17.6   | 17.5   | 17.4   | 17.4   |
| 100°   | 21.0   | 21.1   | 21.2   | 21.3   | 21.5   | 21.6   | 21.5   | 21.3   | 21.2   | 21.1   | 21.0   |
| 102.5° | 22.6   | 22.7   | 22.9   | 23.1   | 23.3   | 23.5   | 23.3   | 23.1   | 22.9   | 22.7   | 22.6   |
| 105°   | 23.2   | 23.3   | 23.6   | 23.9   | 24.2   | 24.5   | 24.2   | 23.9   | 23.6   | 23.3   | 23.2   |
| 107.5° | 23.9   | 24.0   | 24.3   | 24.6   | 24.8   | 25.1   | 24.8   | 24.6   | 24.3   | 24.0   | 23.9   |
| 110°   | 24.2   | 24.3   | 24.6   | 24.9   | 25.2   | 25.5   | 25.2   | 24.9   | 24.6   | 24.3   | 24.2   |



TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°  | 255°  | 260°  | 265°  | 270°  | 275°  | 280°  | 285°  | 290°  | 292.5° |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 24.8   | 24.9  | 25.1  | 25.4  | 25.6  | 25.8  | 25.6  | 25.4  | 25.1  | 24.9  | 24.8   |
| 115°   | 49.6   | 47.0  | 41.9  | 36.7  | 31.6  | 26.4  | 31.6  | 36.7  | 41.9  | 47.0  | 49.6   |
| 117.5° | 170.2  | 160.8 | 142.1 | 123.3 | 104.6 | 85.8  | 104.6 | 123.3 | 142.1 | 160.8 | 170.2  |
| 120°   | 240.2  | 235.4 | 225.7 | 216.0 | 206.4 | 196.7 | 206.4 | 216.0 | 225.7 | 235.4 | 240.2  |
| 122.5° | 257.3  | 257.3 | 257.4 | 257.5 | 257.5 | 257.6 | 257.5 | 257.5 | 257.4 | 257.3 | 257.3  |
| 125°   | 274.7  | 274.8 | 275.0 | 275.3 | 275.5 | 275.7 | 275.5 | 275.3 | 275.0 | 274.8 | 274.7  |
| 127.5° | 291.4  | 291.4 | 291.5 | 291.6 | 291.7 | 291.8 | 291.7 | 291.6 | 291.5 | 291.4 | 291.4  |
| 130°   | 306.9  | 306.9 | 306.8 | 306.7 | 306.7 | 306.6 | 306.7 | 306.7 | 306.8 | 306.9 | 306.9  |
| 132.5° | 321.4  | 321.4 | 321.3 | 321.2 | 321.2 | 321.1 | 321.2 | 321.2 | 321.3 | 321.4 | 321.4  |
| 135°   | 335.6  | 335.5 | 335.4 | 335.3 | 335.1 | 335.0 | 335.1 | 335.3 | 335.4 | 335.5 | 335.6  |
| 137.5° | 348.8  | 348.7 | 348.5 | 348.3 | 348.1 | 347.9 | 348.1 | 348.3 | 348.5 | 348.7 | 348.8  |
| 140°   | 361.4  | 361.2 | 360.9 | 360.5 | 360.2 | 359.8 | 360.2 | 360.5 | 360.9 | 361.2 | 361.4  |
| 142.5° | 373.0  | 372.8 | 372.5 | 372.1 | 371.8 | 371.4 | 371.8 | 372.1 | 372.5 | 372.8 | 373.0  |
| 145°   | 383.7  | 383.5 | 383.1 | 382.8 | 382.4 | 382.0 | 382.4 | 382.8 | 383.1 | 383.5 | 383.7  |
| 147.5° | 393.0  | 392.9 | 392.6 | 392.3 | 392.0 | 391.7 | 392.0 | 392.3 | 392.6 | 392.9 | 393.0  |
| 150°   | 402.0  | 401.8 | 401.5 | 401.1 | 400.8 | 400.4 | 400.8 | 401.1 | 401.5 | 401.8 | 402.0  |
| 152.5° | 410.1  | 409.8 | 409.3 | 408.8 | 408.3 | 407.8 | 408.3 | 408.8 | 409.3 | 409.8 | 410.1  |
| 155°   | 417.2  | 416.9 | 416.3 | 415.8 | 415.2 | 414.6 | 415.2 | 415.8 | 416.3 | 416.9 | 417.2  |
| 157.5° | 423.6  | 423.3 | 422.8 | 422.2 | 421.7 | 421.1 | 421.7 | 422.2 | 422.8 | 423.3 | 423.6  |
| 160°   | 428.8  | 428.5 | 428.0 | 427.5 | 427.0 | 426.5 | 427.0 | 427.5 | 428.0 | 428.5 | 428.8  |
| 162.5° | 434.0  | 433.7 | 433.0 | 432.3 | 431.7 | 431.0 | 431.7 | 432.3 | 433.0 | 433.7 | 434.0  |
| 165°   | 437.8  | 437.6 | 437.1 | 436.6 | 436.1 | 435.6 | 436.1 | 436.6 | 437.1 | 437.6 | 437.8  |
| 167.5° | 441.4  | 441.1 | 440.4 | 439.8 | 439.1 | 438.5 | 439.1 | 439.8 | 440.4 | 441.1 | 441.4  |
| 170°   | 443.9  | 443.6 | 442.9 | 442.3 | 441.6 | 441.0 | 441.6 | 442.3 | 442.9 | 443.6 | 443.9  |
| 172.5° | 445.9  | 445.6 | 444.9 | 444.3 | 443.6 | 443.0 | 443.6 | 444.3 | 444.9 | 445.6 | 445.9  |
| 175°   | 447.2  | 446.8 | 446.1 | 445.4 | 444.6 | 443.9 | 444.6 | 445.4 | 446.1 | 446.8 | 447.2  |
| 177.5° | 447.5  | 447.2 | 446.5 | 445.9 | 445.2 | 444.6 | 445.2 | 445.9 | 446.5 | 447.2 | 447.5  |
| 180°   | 445.6  | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6  |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1256.3 | 1264.5 | 1261.4 | 1250.2 | 1263.5 | 1263.5 | 1272.6 | 1272.6 | 1283.8 | 1287.9 | 1294.0 |
| 5°     | 1185.1 | 1191.2 | 1196.3 | 1191.2 | 1200.4 | 1214.6 | 1222.8 | 1229.9 | 1245.1 | 1251.3 | 1260.4 |
| 7.5°   | 1108.8 | 1120.0 | 1125.1 | 1125.1 | 1140.4 | 1156.6 | 1172.9 | 1183.1 | 1204.5 | 1212.6 | 1221.8 |
| 10°    | 1034.6 | 1047.8 | 1058.0 | 1057.0 | 1082.4 | 1092.6 | 1112.9 | 1136.3 | 1157.7 | 1169.9 | 1183.1 |
| 12.5°  | 956.2  | 963.4  | 977.6  | 998.0  | 1004.1 | 1022.4 | 1045.8 | 1075.3 | 1113.9 | 1125.1 | 1144.4 |
| 15°    | 891.1  | 910.5  | 921.7  | 930.8  | 945.1  | 962.3  | 987.8  | 1016.3 | 1054.9 | 1079.3 | 1099.7 |
| 17.5°  | 836.2  | 861.6  | 868.8  | 866.7  | 885.0  | 911.5  | 941.0  | 962.3  | 996.9  | 1026.4 | 1045.8 |
| 20°    | 791.4  | 801.6  | 813.8  | 818.9  | 833.2  | 861.6  | 890.1  | 914.5  | 943.0  | 966.4  | 988.8  |
| 22.5°  | 746.7  | 754.8  | 765.0  | 774.1  | 785.3  | 801.6  | 829.1  | 859.6  | 887.1  | 909.4  | 934.9  |
| 25°    | 710.1  | 715.1  | 724.3  | 731.4  | 743.6  | 754.8  | 774.1  | 807.7  | 840.3  | 853.5  | 875.9  |
| 27.5°  | 674.5  | 678.5  | 684.6  | 692.8  | 698.9  | 710.1  | 727.4  | 754.8  | 788.4  | 801.6  | 832.1  |
| 30°    | 642.9  | 646.0  | 652.1  | 656.1  | 659.2  | 672.4  | 685.6  | 707.0  | 732.4  | 750.8  | 773.1  |
| 32.5°  | 613.4  | 616.5  | 622.6  | 623.6  | 627.7  | 634.8  | 647.0  | 666.3  | 688.7  | 704.0  | 723.3  |
| 35°    | 580.9  | 582.9  | 589.0  | 591.0  | 594.1  | 600.2  | 609.4  | 623.6  | 643.9  | 655.1  | 672.4  |
| 37.5°  | 555.4  | 554.4  | 558.5  | 561.5  | 565.6  | 568.7  | 571.7  | 586.0  | 601.2  | 611.4  | 624.6  |
| 40°    | 528.0  | 525.9  | 527.0  | 531.0  | 533.1  | 537.1  | 537.1  | 551.4  | 561.5  | 569.7  | 579.8  |
| 42.5°  | 500.5  | 499.5  | 497.4  | 499.5  | 501.5  | 502.5  | 503.6  | 513.7  | 523.9  | 531.0  | 542.2  |
| 45°    | 473.0  | 472.0  | 470.0  | 471.0  | 471.0  | 473.0  | 476.1  | 480.2  | 487.3  | 493.4  | 499.5  |
| 47.5°  | 447.6  | 445.6  | 442.5  | 441.5  | 443.5  | 443.5  | 443.5  | 447.6  | 454.7  | 456.8  | 462.9  |
| 50°    | 421.2  | 418.1  | 414.0  | 412.0  | 412.0  | 411.0  | 413.0  | 414.0  | 420.1  | 422.2  | 427.3  |
| 52.5°  | 392.7  | 390.6  | 386.6  | 382.5  | 383.5  | 381.5  | 382.5  | 383.5  | 385.5  | 388.6  | 391.7  |
| 55°    | 364.2  | 360.1  | 357.1  | 356.0  | 353.0  | 353.0  | 349.9  | 354.0  | 353.0  | 354.0  | 358.1  |
| 57.5°  | 336.7  | 332.7  | 327.6  | 325.5  | 322.5  | 321.5  | 319.4  | 318.4  | 319.4  | 322.5  | 325.5  |
| 60°    | 304.2  | 302.1  | 299.1  | 296.0  | 294.0  | 290.9  | 288.9  | 288.9  | 287.9  | 287.9  | 288.9  |
| 62.5°  | 272.6  | 271.6  | 267.5  | 266.5  | 264.5  | 262.5  | 259.4  | 257.4  | 257.4  | 259.4  | 260.4  |
| 65°    | 242.1  | 241.1  | 238.0  | 237.0  | 231.9  | 229.9  | 228.9  | 227.9  | 225.8  | 225.8  | 225.8  |
| 67.5°  | 213.6  | 210.6  | 210.6  | 205.5  | 201.4  | 199.4  | 197.4  | 196.3  | 196.3  | 196.3  | 197.4  |
| 70°    | 182.1  | 182.1  | 179.0  | 176.0  | 171.9  | 172.9  | 169.9  | 166.8  | 166.8  | 164.8  | 165.8  |
| 72.5°  | 151.6  | 150.6  | 147.5  | 146.5  | 143.4  | 140.4  | 138.3  | 140.4  | 137.3  | 136.3  | 137.3  |
| 75°    | 122.1  | 121.1  | 119.0  | 117.0  | 118.0  | 115.0  | 111.9  | 110.9  | 110.9  | 108.8  | 108.8  |
| 77.5°  | 93.6   | 95.6   | 91.6   | 90.5   | 88.5   | 86.5   | 85.5   | 84.4   | 84.4   | 84.4   | 86.5   |
| 80°    | 65.1   | 66.1   | 66.1   | 64.1   | 65.1   | 62.1   | 62.1   | 62.1   | 59.0   | 60.0   | 61.0   |
| 82.5°  | 41.7   | 41.7   | 40.7   | 41.7   | 40.7   | 40.7   | 39.7   | 39.7   | 38.7   | 38.7   | 39.7   |
| 85°    | 23.4   | 22.4   | 21.4   | 23.4   | 22.4   | 22.4   | 21.4   | 21.4   | 21.4   | 21.4   | 21.4   |
| 87.5°  | 5.1    | 6.1    | 6.1    | 6.1    | 6.1    | 7.1    | 7.1    | 7.1    | 8.1    | 8.1    | 8.1    |
| 90°    | 7.9    | 7.5    | 7.2    | 6.8    | 6.4    | 5.8    | 5.3    | 4.7    | 4.2    | 3.9    | 3.5    |
| 92.5°  | 8.3    | 8.2    | 8.0    | 7.9    | 7.7    | 7.5    | 7.3    | 7.1    | 6.9    | 6.8    | 6.9    |
| 95°    | 14.0   | 13.7   | 13.3   | 13.0   | 12.6   | 12.1   | 11.6   | 11.1   | 10.6   | 10.3   | 11.5   |
| 97.5°  | 17.3   | 17.1   | 16.8   | 16.6   | 16.4   | 15.3   | 14.1   | 13.0   | 11.9   | 11.3   | 14.2   |
| 100°   | 20.7   | 20.1   | 19.6   | 19.0   | 18.4   | 17.2   | 16.0   | 14.7   | 13.5   | 12.9   | 17.8   |
| 102.5° | 22.2   | 21.4   | 20.6   | 19.8   | 19.0   | 32.0   | 45.1   | 58.1   | 71.2   | 77.7   | 77.8   |
| 105°   | 22.8   | 22.0   | 21.3   | 20.5   | 19.7   | 39.3   | 58.8   | 78.4   | 97.9   | 107.7  | 106.6  |
| 107.5° | 23.5   | 22.7   | 21.9   | 21.1   | 20.3   | 44.5   | 68.6   | 92.8   | 116.9  | 129.0  | 128.1  |
| 110°   | 27.8   | 34.9   | 42.1   | 49.2   | 56.4   | 77.1   | 97.8   | 118.5  | 139.2  | 149.6  | 148.8  |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  | 330°  | 335°  | 337.5° | 340°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 112.5° | 40.2  | 71.1  | 102.0 | 132.9 | 163.8 | 165.0 | 166.2 | 167.5 | 168.7 | 169.3  | 168.7 |
| 115°   | 66.2  | 99.4  | 132.5 | 165.7 | 198.9 | 197.1 | 195.3 | 193.6 | 191.8 | 190.9  | 190.3 |
| 117.5° | 175.3 | 185.6 | 195.8 | 206.1 | 216.3 | 215.1 | 213.9 | 212.6 | 211.4 | 210.8  | 210.1 |
| 120°   | 239.8 | 238.9 | 238.0 | 237.2 | 236.3 | 235.0 | 233.7 | 232.4 | 231.1 | 230.5  | 230.0 |
| 122.5° | 257.1 | 256.6 | 256.2 | 255.7 | 255.3 | 253.9 | 252.5 | 251.0 | 249.6 | 248.9  | 248.3 |
| 125°   | 274.4 | 273.9 | 273.4 | 272.9 | 272.4 | 271.0 | 269.7 | 268.3 | 267.0 | 266.3  | 265.8 |
| 127.5° | 291.0 | 290.3 | 289.6 | 288.9 | 288.2 | 287.1 | 286.1 | 285.0 | 283.9 | 283.4  | 282.9 |
| 130°   | 306.5 | 305.7 | 305.0 | 304.2 | 303.4 | 302.6 | 301.8 | 301.0 | 300.2 | 299.8  | 299.2 |
| 132.5° | 321.1 | 320.4 | 319.8 | 319.1 | 318.5 | 317.7 | 316.9 | 316.2 | 315.4 | 315.0  | 314.5 |
| 135°   | 335.2 | 334.5 | 333.8 | 333.1 | 332.4 | 331.8 | 331.1 | 330.5 | 329.8 | 329.5  | 328.9 |
| 137.5° | 348.4 | 347.7 | 347.0 | 346.3 | 345.6 | 344.9 | 344.2 | 343.5 | 342.8 | 342.4  | 342.0 |
| 140°   | 361.1 | 360.4 | 359.8 | 359.1 | 358.5 | 357.7 | 356.9 | 356.2 | 355.4 | 355.0  | 354.7 |
| 142.5° | 372.7 | 372.1 | 371.6 | 371.0 | 370.4 | 369.5 | 368.5 | 367.6 | 366.7 | 366.2  | 366.0 |
| 145°   | 383.4 | 382.9 | 382.4 | 381.9 | 381.4 | 380.2 | 379.0 | 377.7 | 376.5 | 375.9  | 375.9 |
| 147.5° | 392.8 | 392.5 | 392.1 | 391.8 | 391.4 | 390.2 | 389.0 | 387.7 | 386.5 | 385.9  | 386.0 |
| 150°   | 401.8 | 401.4 | 400.9 | 400.5 | 400.1 | 398.9 | 397.8 | 396.6 | 395.5 | 394.9  | 395.2 |
| 152.5° | 409.9 | 409.5 | 409.0 | 408.6 | 408.2 | 407.1 | 406.0 | 404.9 | 403.8 | 403.3  | 403.6 |
| 155°   | 417.0 | 416.6 | 416.1 | 415.7 | 415.3 | 414.4 | 413.6 | 412.7 | 411.8 | 411.4  | 411.7 |
| 157.5° | 423.4 | 422.9 | 422.4 | 421.9 | 421.4 | 420.8 | 420.1 | 419.5 | 418.8 | 418.5  | 418.8 |
| 160°   | 428.6 | 428.2 | 427.7 | 427.3 | 426.9 | 426.5 | 426.0 | 425.6 | 425.1 | 424.9  | 425.1 |
| 162.5° | 433.7 | 433.2 | 432.7 | 432.2 | 431.7 | 431.3 | 431.0 | 430.6 | 430.3 | 430.1  | 430.3 |
| 165°   | 437.6 | 437.1 | 436.6 | 436.1 | 435.6 | 435.4 | 435.2 | 434.9 | 434.7 | 434.6  | 434.8 |
| 167.5° | 441.1 | 440.6 | 440.1 | 439.6 | 439.1 | 438.9 | 438.7 | 438.4 | 438.2 | 438.1  | 438.3 |
| 170°   | 443.7 | 443.2 | 442.7 | 442.2 | 441.7 | 441.5 | 441.4 | 441.2 | 441.1 | 441.0  | 441.2 |
| 172.5° | 445.6 | 445.1 | 444.6 | 444.1 | 443.6 | 443.5 | 443.3 | 443.2 | 443.1 | 443.0  | 443.2 |
| 175°   | 446.9 | 446.4 | 445.9 | 445.4 | 444.9 | 444.8 | 444.6 | 444.5 | 444.4 | 444.3  | 444.5 |
| 177.5° | 447.2 | 446.7 | 446.2 | 445.7 | 445.2 | 445.1 | 445.1 | 445.0 | 444.9 | 444.9  | 445.2 |
| 180°   | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6 | 445.6  | 445.6 |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5°   | 1299.1 | 1299.1 | 1314.3 | 1330.6 |
| 5°     | 1270.6 | 1277.7 | 1302.1 | 1324.5 |
| 7.5°   | 1243.1 | 1255.3 | 1285.8 | 1314.3 |
| 10°    | 1209.5 | 1225.8 | 1263.5 | 1297.0 |
| 12.5°  | 1177.0 | 1192.3 | 1236.0 | 1273.6 |
| 15°    | 1131.2 | 1150.5 | 1197.3 | 1244.1 |
| 17.5°  | 1085.4 | 1104.8 | 1161.7 | 1216.7 |
| 20°    | 1031.5 | 1057.0 | 1121.0 | 1194.3 |
| 22.5°  | 981.7  | 1013.2 | 1084.4 | 1143.4 |
| 25°    | 926.7  | 975.6  | 1041.7 | 1118.0 |
| 27.5°  | 877.9  | 926.7  | 993.9  | 1071.2 |
| 30°    | 823.0  | 872.8  | 942.0  | 1013.2 |
| 32.5°  | 770.1  | 815.9  | 883.0  | 970.5  |
| 35°    | 715.1  | 758.9  | 824.0  | 912.5  |
| 37.5°  | 665.3  | 708.0  | 779.2  | 860.6  |
| 40°    | 616.5  | 661.2  | 722.3  | 803.7  |
| 42.5°  | 570.7  | 610.4  | 665.3  | 746.7  |
| 45°    | 529.0  | 557.5  | 608.3  | 684.6  |
| 47.5°  | 485.2  | 510.7  | 557.5  | 633.8  |
| 50°    | 444.6  | 465.9  | 506.6  | 577.8  |
| 52.5°  | 404.9  | 423.2  | 460.8  | 517.8  |
| 55°    | 369.3  | 386.6  | 414.0  | 470.0  |
| 57.5°  | 332.7  | 345.9  | 372.3  | 417.1  |
| 60°    | 297.0  | 309.3  | 330.6  | 367.2  |
| 62.5°  | 261.4  | 271.6  | 292.0  | 321.5  |
| 65°    | 229.9  | 238.0  | 253.3  | 278.7  |
| 67.5°  | 199.4  | 204.5  | 216.7  | 237.0  |
| 70°    | 169.9  | 174.0  | 184.1  | 200.4  |
| 72.5°  | 138.3  | 142.4  | 153.6  | 164.8  |
| 75°    | 111.9  | 112.9  | 121.1  | 130.2  |
| 77.5°  | 87.5   | 86.5   | 92.6   | 99.7   |
| 80°    | 60.0   | 63.1   | 68.2   | 71.2   |
| 82.5°  | 40.7   | 41.7   | 43.7   | 45.8   |
| 85°    | 22.4   | 23.4   | 23.4   | 26.4   |
| 87.5°  | 9.2    | 10.2   | 10.2   | 11.2   |
| 90°    | 2.7    | 1.9    | 1.1    | 0.3    |
| 92.5°  | 7.2    | 7.5    | 7.8    | 8.1    |
| 95°    | 13.9   | 16.2   | 18.6   | 21.0   |
| 97.5°  | 20.1   | 26.0   | 31.8   | 37.7   |
| 100°   | 27.6   | 37.5   | 47.3   | 57.1   |
| 102.5° | 77.9   | 78.0   | 78.2   | 78.3   |
| 105°   | 104.5  | 102.3  | 100.2  | 98.0   |
| 107.5° | 126.3  | 124.5  | 122.7  | 120.9  |
| 110°   | 147.3  | 145.8  | 144.3  | 142.8  |

TEST NUMBER: P998741

CATALOG NUMBER: SA2XXDIP-B675D330UB2750-4F0-XX-W2A-A\_2700K

**CANDELA DISTRIBUTION (continued):**

|        | 345°  | 350°  | 355°  | 360°  |
|--------|-------|-------|-------|-------|
| 112.5° | 167.4 | 166.1 | 164.8 | 163.5 |
| 115°   | 189.1 | 187.8 | 186.6 | 185.4 |
| 117.5° | 208.7 | 207.2 | 205.8 | 204.4 |
| 120°   | 228.9 | 227.8 | 226.8 | 225.7 |
| 122.5° | 247.2 | 246.0 | 244.9 | 243.7 |
| 125°   | 264.9 | 264.0 | 263.0 | 262.1 |
| 127.5° | 281.9 | 280.9 | 279.9 | 278.9 |
| 130°   | 298.1 | 297.0 | 295.8 | 294.7 |
| 132.5° | 313.6 | 312.7 | 311.7 | 310.8 |
| 135°   | 327.8 | 326.6 | 325.5 | 324.3 |
| 137.5° | 341.1 | 340.2 | 339.4 | 338.5 |
| 140°   | 354.1 | 353.6 | 353.0 | 352.4 |
| 142.5° | 365.5 | 365.0 | 364.5 | 364.0 |
| 145°   | 376.0 | 376.1 | 376.1 | 376.2 |
| 147.5° | 386.2 | 386.5 | 386.7 | 386.9 |
| 150°   | 395.7 | 396.2 | 396.7 | 397.2 |
| 152.5° | 404.2 | 404.7 | 405.3 | 405.9 |
| 155°   | 412.4 | 413.0 | 413.7 | 414.3 |
| 157.5° | 419.4 | 419.9 | 420.5 | 421.1 |
| 160°   | 425.6 | 426.0 | 426.5 | 426.9 |
| 162.5° | 430.7 | 431.2 | 431.6 | 432.0 |
| 165°   | 435.2 | 435.7 | 436.1 | 436.5 |
| 167.5° | 438.8 | 439.2 | 439.7 | 440.1 |
| 170°   | 441.7 | 442.1 | 442.6 | 443.0 |
| 172.5° | 443.6 | 444.1 | 444.5 | 444.9 |
| 175°   | 445.0 | 445.5 | 446.0 | 446.5 |
| 177.5° | 445.7 | 446.2 | 446.7 | 447.2 |
| 180°   | 445.6 | 445.6 | 445.6 | 445.6 |

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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 | 18.04            | 19.05 | 18.82 | 19.85 | 20.82 | 15.53          | 16.54 | 16.31 | 17.34 | 18.31 |
|                 | 3H   | 18.86            | 19.77 | 19.66 | 20.57 | 21.58 | 16.89          | 17.79 | 17.68 | 18.60 | 19.60 |
|                 | 4H   | 19.04            | 19.89 | 19.85 | 20.71 | 21.72 | 17.36          | 18.21 | 18.17 | 19.03 | 20.04 |
|                 | 6H   | 19.09            | 19.87 | 19.91 | 20.70 | 21.73 | 17.67          | 18.46 | 18.49 | 19.28 | 20.31 |
|                 | 8H   | 19.07            | 19.82 | 19.91 | 20.66 | 21.69 | 17.76          | 18.51 | 18.59 | 19.35 | 20.38 |
|                 | 12H  | 19.04            | 19.75 | 19.88 | 20.59 | 21.64 | 17.80          | 18.52 | 18.64 | 19.35 | 20.41 |
| 4H              | 2H   | 18.10            | 18.95 | 18.91 | 19.77 | 20.78 | 15.99          | 16.85 | 16.81 | 17.66 | 18.68 |
|                 | 3H   | 19.09            | 19.80 | 19.92 | 20.65 | 21.68 | 17.47          | 18.18 | 18.30 | 19.03 | 20.06 |
|                 | 4H   | 19.37            | 20.02 | 20.21 | 20.87 | 21.92 | 18.01          | 18.65 | 18.85 | 19.50 | 20.56 |
|                 | 6H   | 19.51            | 20.07 | 20.37 | 20.94 | 22.00 | 18.40          | 18.95 | 19.25 | 19.82 | 20.89 |
|                 | 8H   | 19.51            | 20.03 | 20.37 | 20.90 | 21.97 | 18.51          | 19.03 | 19.37 | 19.90 | 20.97 |
|                 | 12H  | 19.48            | 19.95 | 20.36 | 20.84 | 21.92 | 18.57          | 19.04 | 19.45 | 19.93 | 21.01 |
| 8H              | 4H   | 19.39            | 19.91 | 20.25 | 20.78 | 21.85 | 18.16          | 18.68 | 19.02 | 19.55 | 20.62 |
|                 | 6H   | 19.58            | 20.01 | 20.47 | 20.92 | 21.99 | 18.60          | 19.03 | 19.49 | 19.94 | 21.02 |
|                 | 8H   | 19.61            | 19.99 | 20.51 | 20.89 | 21.98 | 18.75          | 19.13 | 19.65 | 20.04 | 21.13 |
|                 | 12H  | 19.60            | 19.93 | 20.50 | 20.83 | 21.97 | 18.85          | 19.19 | 19.75 | 20.08 | 21.23 |
| 12H             | 4H   | 19.36            | 19.82 | 20.24 | 20.71 | 21.79 | 18.14          | 18.61 | 19.02 | 19.50 | 20.58 |
|                 | 6H   | 19.56            | 19.94 | 20.46 | 20.84 | 21.93 | 18.60          | 18.98 | 19.50 | 19.89 | 20.98 |
|                 | 8H   | 19.60            | 19.93 | 20.50 | 20.83 | 21.97 | 18.77          | 19.10 | 19.67 | 20.00 | 21.14 |