

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: P831850

Luminaire Tested: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

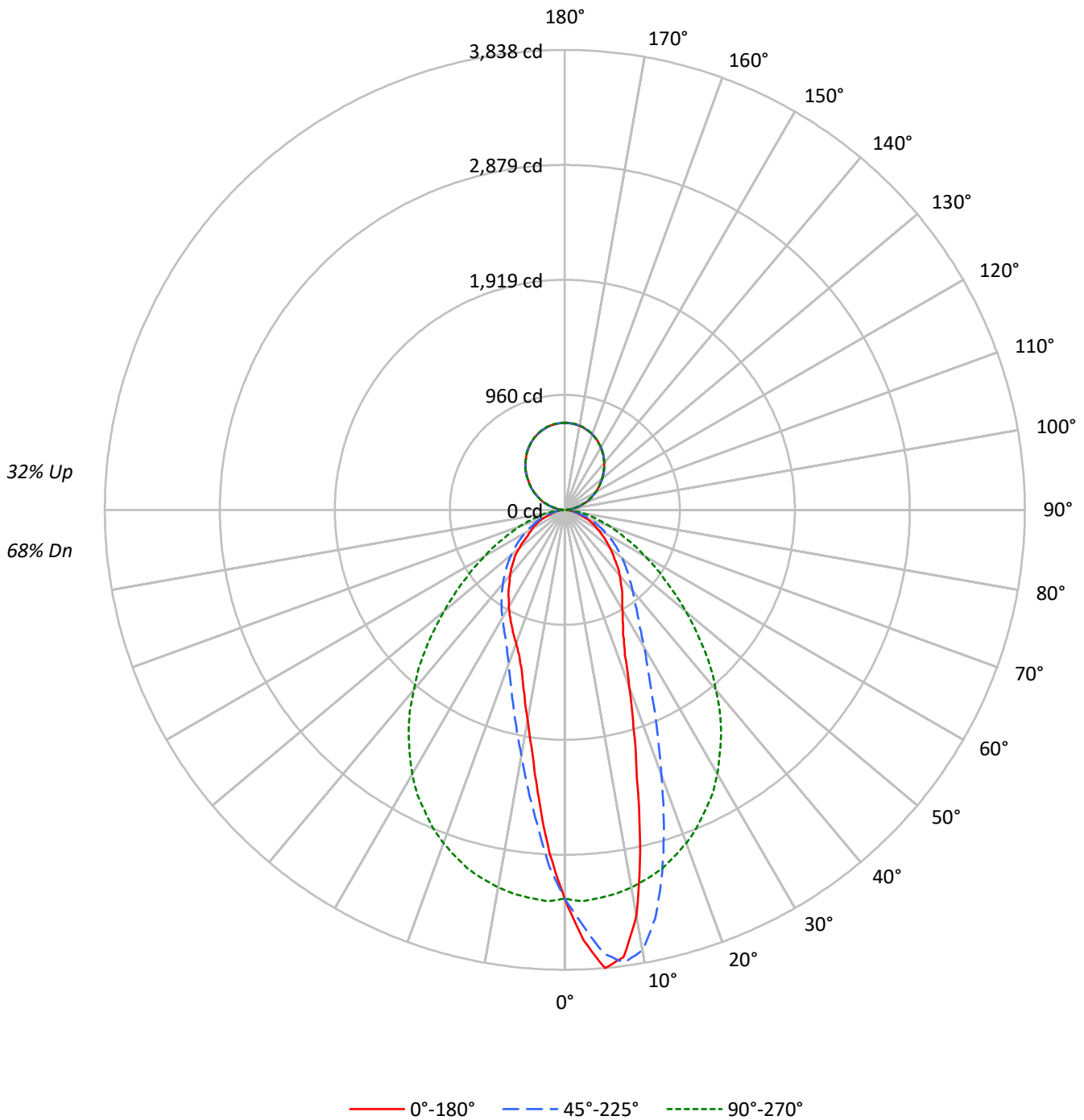
Test Method: LM-79-2019  
Report Number: P831850  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D585U835-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6315.8 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 50.3  
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: P831850  
CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

### Luminous Intensity Polar Plot





TEST NUMBER: P831850

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF  | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |   |
| RC  | 80  |     |     |     |     | 70  |     |     |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 83 | 83 | 83 | 73 | 73 | 73 | 68 |    |    |    |   |
| 1   | 103 | 99  | 95  | 92  | 97  | 94  | 90  | 88  | 84 | 81 | 79 | 74 | 73 | 71 | 66 | 65 | 64 | 60 |    |    |    |   |
| 2   | 95  | 88  | 82  | 77  | 89  | 83  | 78  | 74  | 75 | 71 | 67 | 67 | 64 | 61 | 60 | 57 | 55 | 52 |    |    |    |   |
| 3   | 87  | 78  | 71  | 66  | 82  | 74  | 68  | 63  | 67 | 62 | 58 | 60 | 56 | 53 | 54 | 51 | 49 | 45 |    |    |    |   |
| 4   | 81  | 70  | 63  | 57  | 76  | 67  | 60  | 55  | 61 | 55 | 51 | 55 | 50 | 47 | 49 | 46 | 43 | 40 |    |    |    |   |
| 5   | 75  | 63  | 56  | 50  | 70  | 61  | 54  | 48  | 55 | 49 | 45 | 50 | 45 | 42 | 45 | 41 | 38 | 36 |    |    |    |   |
| 6   | 69  | 58  | 50  | 44  | 65  | 55  | 48  | 43  | 50 | 44 | 40 | 46 | 41 | 37 | 41 | 38 | 35 | 32 |    |    |    |   |
| 7   | 65  | 53  | 45  | 40  | 61  | 51  | 44  | 39  | 46 | 40 | 36 | 42 | 37 | 34 | 38 | 34 | 32 | 29 |    |    |    |   |
| 8   | 60  | 49  | 41  | 36  | 57  | 46  | 40  | 35  | 43 | 37 | 33 | 39 | 34 | 31 | 36 | 32 | 29 | 27 |    |    |    |   |
| 9   | 57  | 45  | 38  | 33  | 54  | 43  | 36  | 32  | 40 | 34 | 30 | 36 | 32 | 28 | 33 | 29 | 27 | 25 |    |    |    |   |
| 10  | 53  | 42  | 35  | 30  | 51  | 40  | 33  | 29  | 37 | 31 | 28 | 34 | 29 | 26 | 31 | 27 | 25 | 23 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 34929 | 34929 | 34929 | 34929 | 34929 |
| 5°  | 41474 | 40151 | 35149 | 28414 | 26379 |
| 10° | 37576 | 40783 | 34974 | 22766 | 19530 |
| 15° | 25872 | 34968 | 34604 | 18607 | 15450 |
| 20° | 17999 | 26922 | 33909 | 15690 | 13580 |
| 25° | 13715 | 20518 | 32898 | 13944 | 12514 |
| 30° | 11939 | 16404 | 31635 | 12949 | 11593 |
| 35° | 10962 | 13838 | 29843 | 12107 | 10751 |
| 40° | 10002 | 12357 | 27500 | 11282 | 9983  |
| 45° | 9033  | 11301 | 24972 | 10500 | 9216  |
| 50° | 8199  | 10428 | 21990 | 9736  | 8266  |
| 55° | 7416  | 9575  | 19125 | 8989  | 7092  |
| 60° | 6646  | 8708  | 16613 | 8163  | 6702  |
| 65° | 6133  | 7725  | 14301 | 7335  | 6337  |
| 70° | 4982  | 6678  | 12478 | 6637  | 5149  |
| 75° | 4371  | 5311  | 10568 | 5506  | 4537  |
| 80° | 3961  | 4494  | 8660  | 4618  | 4289  |
| 85° | 3619  | 3940  | 6570  | 4187  | 3940  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 26349 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 295.8  | 4.7       |
| 10°-20°   | 684.4  | 10.8      |
| 20°-30°   | 785.3  | 12.4      |
| 30°-40°   | 774.0  | 12.3      |
| 40°-50°   | 682.6  | 10.8      |
| 50°-60°   | 525.1  | 8.3       |
| 60°-70°   | 345.2  | 5.5       |
| 70°-80°   | 167.7  | 2.7       |
| 80°-90°   | 43.8   | 0.7       |
| 90°-100°  | 46.7   | 0.7       |
| 100°-110° | 141.5  | 2.2       |
| 110°-120° | 240.8  | 3.8       |
| 120°-130° | 316.8  | 5.0       |
| 130°-140° | 356.1  | 5.6       |
| 140°-150° | 350.1  | 5.5       |
| 150°-160° | 294.8  | 4.7       |
| 160°-170° | 196.2  | 3.1       |
| 170°-180° | 68.7   | 1.1       |
| 0°-30°    | 1765.5 | 28.0      |
| 0°-40°    | 2539.5 | 40.2      |
| 0°-60°    | 3747.2 | 59.3      |
| 0°-90°    | 4304.0 | 68.1      |
| 90°-120°  | 429.0  | 6.8       |
| 90°-150°  | 1452.2 | 23.0      |
| 90°-180°  | 2012.0 | 31.9      |
| 0°-180°   | 6315.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3245 | 3245 | 3245 | 3245 | 3245 |      |
| 5°   | 3838 | 3716 | 3253 | 2630 | 2441 | 351  |
| 15°  | 2322 | 3138 | 3105 | 1670 | 1386 | 655  |
| 25°  | 1155 | 1728 | 2770 | 1174 | 1054 | 545  |
| 35°  | 834  | 1053 | 2271 | 921  | 818  | 520  |
| 45°  | 593  | 742  | 1640 | 690  | 605  | 461  |
| 55°  | 395  | 510  | 1019 | 479  | 378  | 354  |
| 65°  | 241  | 303  | 562  | 288  | 249  | 236  |
| 75°  | 105  | 128  | 254  | 132  | 109  | 113  |
| 85°  | 29   | 32   | 53   | 34   | 32   | 31   |
| 90°  | 17   | 14   | 1    | 14   | 17   | 10   |
| 95°  | 44   | 42   | 34   | 42   | 44   | 45   |
| 105° | 136  | 135  | 128  | 135  | 136  | 144  |
| 115° | 243  | 243  | 242  | 243  | 243  | 241  |
| 125° | 351  | 355  | 355  | 355  | 351  | 314  |
| 135° | 460  | 463  | 460  | 463  | 460  | 354  |
| 145° | 558  | 561  | 558  | 561  | 558  | 349  |
| 155° | 638  | 640  | 639  | 640  | 638  | 294  |
| 165° | 694  | 695  | 696  | 695  | 694  | 196  |
| 175° | 722  | 722  | 724  | 722  | 722  | 69   |
| 180° | 726  | 726  | 726  | 726  | 726  |      |



TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 |
| 2.5°   | 3596.3 | 3585.0 | 3573.6 | 3570.3 | 3567.0 | 3556.4 | 3545.7 | 3521.8 | 3497.8 | 3473.2 | 3448.6 |
| 5°     | 3838.4 | 3839.7 | 3841.1 | 3837.7 | 3834.4 | 3820.4 | 3806.5 | 3777.2 | 3747.9 | 3716.0 | 3684.1 |
| 7.5°   | 3763.9 | 3785.2 | 3806.5 | 3810.5 | 3814.5 | 3825.1 | 3835.8 | 3829.1 | 3822.4 | 3810.5 | 3798.5 |
| 10°    | 3437.9 | 3436.6 | 3435.3 | 3459.2 | 3483.2 | 3554.4 | 3625.5 | 3662.1 | 3698.7 | 3731.3 | 3763.9 |
| 12.5°  | 2905.8 | 2907.7 | 2909.7 | 2988.2 | 3066.7 | 3133.9 | 3201.1 | 3294.2 | 3387.4 | 3487.8 | 3588.3 |
| 15°    | 2321.7 | 2354.3 | 2386.9 | 2456.7 | 2526.6 | 2627.7 | 2728.8 | 2853.9 | 2978.9 | 3137.9 | 3296.9 |
| 17.5°  | 1906.6 | 1920.5 | 1934.5 | 2001.7 | 2068.9 | 2164.7 | 2260.5 | 2402.2 | 2543.9 | 2748.8 | 2953.6 |
| 20°    | 1571.3 | 1583.9 | 1596.6 | 1645.1 | 1693.7 | 1785.5 | 1877.3 | 2012.3 | 2147.4 | 2350.3 | 2553.2 |
| 22.5°  | 1311.8 | 1336.5 | 1361.1 | 1393.7 | 1426.3 | 1492.8 | 1559.3 | 1697.0 | 1834.7 | 2019.7 | 2204.6 |
| 25°    | 1154.8 | 1166.2 | 1177.5 | 1205.4 | 1233.3 | 1297.2 | 1361.1 | 1452.2 | 1543.3 | 1727.6 | 1911.9 |
| 27.5°  | 1048.4 | 1051.7 | 1055.1 | 1075.7 | 1096.3 | 1137.6 | 1178.8 | 1263.3 | 1347.8 | 1499.4 | 1651.1 |
| 30°    | 960.6  | 966.6  | 972.6  | 988.5  | 1004.5 | 1034.4 | 1064.4 | 1124.2 | 1184.1 | 1319.8 | 1455.5 |
| 32.5°  | 892.7  | 896.1  | 899.4  | 912.7  | 926.0  | 948.0  | 969.9  | 1017.1 | 1064.4 | 1168.2 | 1271.9 |
| 35°    | 834.2  | 834.9  | 835.5  | 845.5  | 855.5  | 876.8  | 898.1  | 937.3  | 976.6  | 1053.1 | 1129.6 |
| 37.5°  | 767.7  | 772.3  | 777.0  | 784.3  | 791.6  | 810.3  | 828.9  | 860.8  | 892.7  | 955.9  | 1019.1 |
| 40°    | 711.8  | 715.8  | 719.8  | 728.4  | 737.1  | 751.7  | 766.4  | 795.6  | 824.9  | 879.4  | 934.0  |
| 42.5°  | 655.9  | 658.6  | 661.2  | 669.9  | 678.5  | 696.5  | 714.5  | 737.7  | 761.0  | 806.3  | 851.5  |
| 45°    | 593.4  | 600.0  | 606.7  | 616.0  | 625.3  | 640.6  | 655.9  | 679.9  | 703.8  | 742.4  | 781.0  |
| 47.5°  | 541.5  | 544.8  | 548.2  | 556.1  | 564.1  | 582.7  | 601.4  | 622.7  | 643.9  | 679.9  | 715.8  |
| 50°    | 489.6  | 490.9  | 492.3  | 499.6  | 506.9  | 523.5  | 540.2  | 564.8  | 589.4  | 622.7  | 655.9  |
| 52.5°  | 440.4  | 443.7  | 447.0  | 454.4  | 461.7  | 473.0  | 484.3  | 509.6  | 534.8  | 567.4  | 600.0  |
| 55°    | 395.2  | 397.1  | 399.1  | 404.5  | 409.8  | 423.1  | 436.4  | 458.3  | 480.3  | 510.2  | 540.2  |
| 57.5°  | 352.6  | 355.2  | 357.9  | 361.9  | 365.9  | 377.9  | 389.8  | 409.1  | 428.4  | 458.3  | 488.3  |
| 60°    | 308.7  | 312.0  | 315.3  | 320.0  | 324.6  | 333.9  | 343.3  | 360.6  | 377.9  | 404.5  | 431.1  |
| 62.5°  | 276.7  | 277.4  | 278.1  | 282.1  | 286.1  | 292.7  | 299.4  | 313.3  | 327.3  | 353.9  | 380.5  |
| 65°    | 240.8  | 242.8  | 244.8  | 246.8  | 248.8  | 254.1  | 259.4  | 271.4  | 283.4  | 303.3  | 323.3  |
| 67.5°  | 203.6  | 205.6  | 207.6  | 210.9  | 214.2  | 218.9  | 223.5  | 231.5  | 239.5  | 258.1  | 276.7  |
| 70°    | 158.3  | 158.3  | 158.3  | 163.6  | 169.0  | 177.0  | 184.9  | 190.9  | 196.9  | 212.2  | 227.5  |
| 72.5°  | 129.1  | 129.7  | 130.4  | 131.1  | 131.7  | 136.4  | 141.0  | 151.0  | 161.0  | 170.3  | 179.6  |
| 75°    | 105.1  | 105.8  | 106.4  | 107.1  | 107.8  | 109.1  | 110.4  | 113.8  | 117.1  | 127.7  | 138.4  |
| 77.5°  | 83.8   | 84.5   | 85.2   | 85.8   | 86.5   | 87.8   | 89.1   | 90.5   | 91.8   | 95.8   | 99.8   |
| 80°    | 63.9   | 64.5   | 65.2   | 65.9   | 66.5   | 67.2   | 67.9   | 69.2   | 70.5   | 72.5   | 74.5   |
| 82.5°  | 46.6   | 46.6   | 46.6   | 46.6   | 46.6   | 47.9   | 49.2   | 49.2   | 49.2   | 50.6   | 51.9   |
| 85°    | 29.3   | 29.3   | 29.3   | 29.9   | 30.6   | 30.6   | 30.6   | 31.3   | 31.9   | 31.9   | 31.9   |
| 87.5°  | 13.3   | 12.6   | 12.0   | 12.6   | 13.3   | 13.3   | 13.3   | 14.0   | 14.6   | 14.6   | 14.6   |
| 90°    | 17.1   | 16.9   | 16.6   | 16.4   | 16.1   | 15.7   | 15.2   | 14.7   | 14.2   | 13.7   | 12.0   |
| 92.5°  | 24.5   | 24.8   | 25.0   | 25.3   | 25.5   | 25.5   | 25.1   | 24.7   | 24.3   | 24.0   | 23.2   |
| 95°    | 44.5   | 44.5   | 44.5   | 44.5   | 44.5   | 44.2   | 43.7   | 43.2   | 42.7   | 42.2   | 41.2   |
| 97.5°  | 63.9   | 64.0   | 64.1   | 64.3   | 64.4   | 64.1   | 63.5   | 62.9   | 62.2   | 61.6   | 60.8   |
| 100°   | 86.7   | 86.4   | 86.2   | 85.9   | 85.7   | 85.4   | 85.0   | 84.6   | 84.2   | 83.8   | 83.2   |
| 102.5° | 110.1  | 110.2  | 110.3  | 110.5  | 110.6  | 110.5  | 110.1  | 109.7  | 109.3  | 108.9  | 108.1  |
| 105°   | 135.8  | 135.5  | 135.2  | 135.0  | 134.7  | 134.6  | 134.6  | 134.6  | 134.6  | 134.6  | 133.5  |
| 107.5° | 162.0  | 162.1  | 162.2  | 162.4  | 162.5  | 162.4  | 162.0  | 161.6  | 161.2  | 160.9  | 160.3  |
| 110°   | 188.8  | 189.1  | 189.3  | 189.6  | 189.8  | 189.7  | 189.2  | 188.7  | 188.2  | 187.7  | 187.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 217.3 | 217.3 | 217.3 | 217.3 | 217.3 | 217.0 | 216.4 | 215.7 | 215.1 | 214.5 | 214.5 |
| 115°   | 243.0 | 243.1 | 243.2 | 243.4 | 243.5 | 243.5 | 243.4 | 243.2 | 243.1 | 243.0 | 243.2 |
| 117.5° | 269.2 | 269.6 | 270.0 | 270.4 | 270.7 | 270.9 | 270.9 | 270.9 | 270.9 | 270.9 | 271.2 |
| 120°   | 297.2 | 297.4 | 297.7 | 297.9 | 298.2 | 298.4 | 298.5 | 298.6 | 298.8 | 298.9 | 299.5 |
| 122.5° | 324.0 | 324.4 | 324.7 | 325.1 | 325.5 | 325.9 | 326.3 | 326.6 | 327.0 | 327.4 | 327.7 |
| 125°   | 350.8 | 351.3 | 351.8 | 352.3 | 352.8 | 353.3 | 353.8 | 354.3 | 354.8 | 355.4 | 355.6 |
| 127.5° | 377.6 | 378.1 | 378.6 | 379.1 | 379.6 | 380.3 | 381.0 | 381.8 | 382.5 | 383.3 | 383.6 |
| 130°   | 403.8 | 404.7 | 405.6 | 406.5 | 407.4 | 408.1 | 408.6 | 409.1 | 409.6 | 410.1 | 410.5 |
| 132.5° | 431.2 | 431.8 | 432.5 | 433.1 | 433.8 | 434.4 | 435.0 | 435.7 | 436.3 | 436.9 | 437.2 |
| 135°   | 459.7 | 460.0 | 460.2 | 460.5 | 460.7 | 461.1 | 461.6 | 462.1 | 462.7 | 463.2 | 463.3 |
| 137.5° | 484.8 | 485.2 | 485.6 | 486.0 | 486.4 | 486.9 | 487.5 | 488.1 | 488.8 | 489.4 | 489.0 |
| 140°   | 509.4 | 510.2 | 511.1 | 512.0 | 512.9 | 513.4 | 513.5 | 513.7 | 513.8 | 513.9 | 513.8 |
| 142.5° | 534.5 | 535.1 | 535.7 | 536.4 | 537.0 | 537.4 | 537.5 | 537.6 | 537.8 | 537.9 | 537.6 |
| 145°   | 558.4 | 558.9 | 559.4 | 559.9 | 560.4 | 560.8 | 560.9 | 561.0 | 561.1 | 561.3 | 560.9 |
| 147.5° | 580.1 | 580.8 | 581.6 | 582.4 | 583.1 | 583.5 | 583.5 | 583.5 | 583.5 | 583.5 | 583.1 |
| 150°   | 600.6 | 601.4 | 602.1 | 602.9 | 603.7 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 603.8 |
| 152.5° | 620.6 | 621.2 | 621.9 | 622.5 | 623.1 | 623.3 | 623.1 | 622.8 | 622.5 | 622.3 | 622.2 |
| 155°   | 638.3 | 639.2 | 640.0 | 640.9 | 641.8 | 642.0 | 641.5 | 641.0 | 640.5 | 640.0 | 639.9 |
| 157.5° | 654.8 | 655.6 | 656.3 | 657.1 | 657.9 | 658.0 | 657.5 | 657.0 | 656.5 | 655.9 | 655.8 |
| 160°   | 670.8 | 671.3 | 671.8 | 672.3 | 672.8 | 672.7 | 672.1 | 671.5 | 670.8 | 670.2 | 670.2 |
| 162.5° | 682.8 | 683.6 | 684.5 | 685.4 | 686.3 | 686.4 | 685.8 | 685.2 | 684.5 | 683.9 | 683.8 |
| 165°   | 694.2 | 695.1 | 695.9 | 696.8 | 697.7 | 697.8 | 697.0 | 696.3 | 695.5 | 694.7 | 694.7 |
| 167.5° | 704.4 | 705.2 | 706.0 | 706.7 | 707.5 | 707.5 | 706.7 | 706.0 | 705.2 | 704.4 | 704.3 |
| 170°   | 711.8 | 712.7 | 713.6 | 714.5 | 715.4 | 715.4 | 714.5 | 713.6 | 712.7 | 711.8 | 711.8 |
| 172.5° | 717.6 | 718.4 | 719.3 | 720.2 | 721.1 | 721.2 | 720.4 | 719.6 | 718.9 | 718.1 | 718.1 |
| 175°   | 721.5 | 722.4 | 723.3 | 724.2 | 725.1 | 725.2 | 724.4 | 723.6 | 722.9 | 722.1 | 722.1 |
| 177.5° | 723.8 | 724.7 | 725.6 | 726.5 | 727.4 | 727.4 | 726.7 | 725.9 | 725.2 | 724.4 | 724.4 |
| 180°   | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 |



TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 |
| 2.5°   | 3445.3 | 3441.9 | 3410.0 | 3378.1 | 3346.8 | 3315.5 | 3292.3 | 3269.0 | 3229.7 | 3190.5 | 3165.9 |
| 5°     | 3658.8 | 3633.5 | 3583.0 | 3532.4 | 3456.6 | 3380.7 | 3316.9 | 3253.0 | 3171.8 | 3090.7 | 3022.8 |
| 7.5°   | 3777.9 | 3757.3 | 3696.1 | 3634.8 | 3534.4 | 3433.9 | 3334.2 | 3234.4 | 3114.6 | 2994.9 | 2892.4 |
| 10°    | 3781.2 | 3798.5 | 3747.9 | 3697.4 | 3584.3 | 3471.2 | 3335.5 | 3199.8 | 3038.8 | 2877.8 | 2745.4 |
| 12.5°  | 3662.8 | 3737.3 | 3726.7 | 3716.0 | 3600.9 | 3485.8 | 3320.9 | 3155.9 | 2958.3 | 2760.7 | 2595.1 |
| 15°    | 3441.3 | 3585.6 | 3628.2 | 3670.8 | 3575.6 | 3480.5 | 3292.9 | 3105.3 | 2873.2 | 2641.0 | 2450.7 |
| 17.5°  | 3155.9 | 3358.1 | 3470.5 | 3583.0 | 3513.8 | 3444.6 | 3239.0 | 3033.5 | 2772.0 | 2510.6 | 2303.7 |
| 20°    | 2817.9 | 3082.7 | 3259.0 | 3435.3 | 3410.0 | 3384.7 | 3172.5 | 2960.3 | 2678.2 | 2396.2 | 2172.0 |
| 22.5°  | 2484.0 | 2763.4 | 3006.9 | 3250.3 | 3276.3 | 3302.2 | 3088.0 | 2873.8 | 2565.1 | 2256.5 | 2028.3 |
| 25°    | 2195.9 | 2480.0 | 2770.0 | 3060.1 | 3118.6 | 3177.2 | 2973.6 | 2770.0 | 2450.1 | 2130.1 | 1903.2 |
| 27.5°  | 1921.2 | 2191.3 | 2510.6 | 2829.9 | 2936.4 | 3042.8 | 2856.5 | 2670.3 | 2337.0 | 2003.7 | 1777.5 |
| 30°    | 1697.0 | 1938.5 | 2264.5 | 2590.4 | 2738.8 | 2887.1 | 2716.2 | 2545.2 | 2214.6 | 1883.9 | 1662.4 |
| 32.5°  | 1488.1 | 1704.3 | 2031.6 | 2358.9 | 2531.2 | 2703.5 | 2555.8 | 2408.2 | 2090.2 | 1772.2 | 1553.3 |
| 35°    | 1323.2 | 1516.7 | 1822.1 | 2127.4 | 2320.3 | 2513.3 | 2392.2 | 2271.1 | 1960.5 | 1649.8 | 1442.9 |
| 37.5°  | 1181.5 | 1343.8 | 1630.5 | 1917.2 | 2122.1 | 2327.0 | 2225.9 | 2124.8 | 1832.7 | 1540.7 | 1345.1 |
| 40°    | 1064.4 | 1194.8 | 1461.5 | 1728.3 | 1929.2 | 2130.1 | 2043.6 | 1957.1 | 1695.7 | 1434.2 | 1251.3 |
| 42.5°  | 963.9  | 1076.4 | 1315.8 | 1555.3 | 1739.6 | 1923.9 | 1866.7 | 1809.4 | 1572.6 | 1335.8 | 1166.2 |
| 45°    | 875.5  | 969.9  | 1180.8 | 1391.7 | 1561.3 | 1730.9 | 1685.7 | 1640.5 | 1436.2 | 1232.0 | 1076.4 |
| 47.5°  | 797.0  | 878.1  | 1066.4 | 1254.6 | 1407.0 | 1559.3 | 1517.4 | 1475.5 | 1306.5 | 1137.6 | 995.9  |
| 50°    | 725.1  | 794.3  | 951.3  | 1108.3 | 1245.3 | 1382.4 | 1347.8 | 1313.2 | 1173.5 | 1033.8 | 911.4  |
| 52.5°  | 657.3  | 714.5  | 855.5  | 996.5  | 1107.0 | 1217.4 | 1190.8 | 1164.2 | 1056.4 | 948.6  | 837.5  |
| 55°    | 592.7  | 645.3  | 764.4  | 883.4  | 977.9  | 1072.4 | 1045.8 | 1019.1 | 935.3  | 851.5  | 753.7  |
| 57.5°  | 534.2  | 580.1  | 676.5  | 773.0  | 848.2  | 923.3  | 910.7  | 898.1  | 828.2  | 758.4  | 677.9  |
| 60°    | 472.3  | 513.6  | 596.7  | 679.9  | 740.4  | 800.9  | 786.3  | 771.7  | 721.8  | 671.9  | 602.7  |
| 62.5°  | 417.1  | 453.7  | 520.2  | 586.7  | 636.0  | 685.2  | 674.5  | 663.9  | 626.0  | 588.1  | 530.9  |
| 65°    | 359.2  | 395.2  | 449.0  | 502.9  | 541.5  | 580.1  | 570.8  | 561.5  | 532.9  | 504.2  | 458.3  |
| 67.5°  | 306.7  | 336.6  | 383.2  | 429.7  | 455.7  | 481.6  | 476.3  | 471.0  | 449.0  | 427.1  | 391.2  |
| 70°    | 253.5  | 279.4  | 318.0  | 356.6  | 374.5  | 392.5  | 394.5  | 396.5  | 376.5  | 356.6  | 330.0  |
| 72.5°  | 200.2  | 220.9  | 256.8  | 292.7  | 306.7  | 320.6  | 320.0  | 319.3  | 307.3  | 295.4  | 271.4  |
| 75°    | 153.7  | 169.0  | 196.9  | 224.8  | 236.8  | 248.8  | 251.5  | 254.1  | 242.8  | 231.5  | 218.2  |
| 77.5°  | 110.4  | 121.1  | 142.4  | 163.6  | 177.0  | 190.3  | 191.6  | 192.9  | 187.6  | 182.3  | 169.6  |
| 80°    | 77.8   | 81.2   | 94.5   | 107.8  | 121.7  | 135.7  | 137.7  | 139.7  | 134.4  | 129.1  | 121.1  |
| 82.5°  | 53.9   | 55.9   | 60.5   | 65.2   | 76.5   | 87.8   | 90.5   | 93.1   | 90.5   | 87.8   | 79.2   |
| 85°    | 32.6   | 33.3   | 35.3   | 37.3   | 42.6   | 47.9   | 50.6   | 53.2   | 51.9   | 50.6   | 45.9   |
| 87.5°  | 14.6   | 14.6   | 15.3   | 16.0   | 17.3   | 18.6   | 22.0   | 25.3   | 23.3   | 21.3   | 19.3   |
| 90°    | 10.4   | 8.7    | 7.1    | 5.6    | 4.4    | 3.1    | 1.8    | 0.6    | 1.8    | 3.1    | 4.4    |
| 92.5°  | 22.4   | 21.7   | 20.9   | 20.2   | 19.4   | 18.6   | 17.9   | 17.1   | 17.9   | 18.6   | 19.4   |
| 95°    | 40.2   | 39.2   | 38.2   | 37.2   | 36.3   | 35.4   | 34.5   | 33.7   | 34.5   | 35.4   | 36.3   |
| 97.5°  | 60.1   | 59.3   | 58.6   | 57.9   | 57.2   | 56.6   | 56.0   | 55.3   | 56.0   | 56.6   | 57.2   |
| 100°   | 82.6   | 81.9   | 81.3   | 80.6   | 79.9   | 79.1   | 78.3   | 77.6   | 78.3   | 79.1   | 79.9   |
| 102.5° | 107.2  | 106.3  | 105.4  | 104.8  | 104.4  | 104.0  | 103.6  | 103.2  | 103.6  | 104.0  | 104.4  |
| 105°   | 132.3  | 131.2  | 130.0  | 129.4  | 129.1  | 128.8  | 128.6  | 128.3  | 128.6  | 128.8  | 129.1  |
| 107.5° | 159.8  | 159.3  | 158.8  | 158.5  | 158.4  | 158.3  | 158.1  | 158.0  | 158.1  | 158.3  | 158.4  |
| 110°   | 187.2  | 186.9  | 186.6  | 186.4  | 186.1  | 185.9  | 185.6  | 185.4  | 185.6  | 185.9  | 186.1  |





TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.5 | 214.5 | 214.5 | 214.4 | 214.3 | 214.2 | 214.0 | 213.9 | 214.0 | 214.2 | 214.3 |
| 115°   | 243.5 | 243.7 | 244.0 | 243.9 | 243.6 | 243.2 | 242.8 | 242.4 | 242.8 | 243.2 | 243.6 |
| 117.5° | 271.4 | 271.7 | 271.9 | 272.0 | 271.9 | 271.8 | 271.6 | 271.5 | 271.6 | 271.8 | 271.9 |
| 120°   | 300.2 | 300.8 | 301.4 | 301.4 | 300.6 | 299.8 | 299.1 | 298.3 | 299.1 | 299.8 | 300.6 |
| 122.5° | 327.9 | 328.2 | 328.4 | 328.3 | 327.8 | 327.3 | 326.8 | 326.3 | 326.8 | 327.3 | 327.8 |
| 125°   | 355.9 | 356.1 | 356.4 | 356.3 | 355.9 | 355.5 | 355.2 | 354.8 | 355.2 | 355.5 | 355.9 |
| 127.5° | 383.8 | 384.1 | 384.3 | 384.1 | 383.3 | 382.5 | 381.8 | 381.0 | 381.8 | 382.5 | 383.3 |
| 130°   | 410.9 | 411.3 | 411.6 | 411.3 | 410.3 | 409.3 | 408.3 | 407.3 | 408.3 | 409.3 | 410.3 |
| 132.5° | 437.4 | 437.7 | 437.9 | 437.6 | 436.5 | 435.5 | 434.5 | 433.5 | 434.5 | 435.5 | 436.5 |
| 135°   | 463.4 | 463.5 | 463.7 | 463.3 | 462.6 | 461.8 | 461.1 | 460.3 | 461.1 | 461.8 | 462.6 |
| 137.5° | 488.6 | 488.3 | 487.9 | 487.4 | 486.7 | 486.1 | 485.5 | 484.8 | 485.5 | 486.1 | 486.7 |
| 140°   | 513.7 | 513.5 | 513.4 | 513.0 | 512.4 | 511.8 | 511.1 | 510.5 | 511.1 | 511.8 | 512.4 |
| 142.5° | 537.4 | 537.1 | 536.9 | 536.4 | 535.8 | 535.2 | 534.5 | 533.9 | 534.5 | 535.2 | 535.8 |
| 145°   | 560.5 | 560.1 | 559.7 | 559.4 | 559.2 | 558.9 | 558.7 | 558.4 | 558.7 | 558.9 | 559.2 |
| 147.5° | 582.7 | 582.4 | 582.0 | 581.5 | 581.0 | 580.5 | 580.0 | 579.5 | 580.0 | 580.5 | 581.0 |
| 150°   | 603.5 | 603.3 | 603.0 | 602.8 | 602.5 | 602.3 | 602.0 | 601.8 | 602.0 | 602.3 | 602.5 |
| 152.5° | 622.0 | 621.9 | 621.8 | 621.5 | 621.2 | 620.8 | 620.4 | 620.0 | 620.4 | 620.8 | 621.2 |
| 155°   | 639.7 | 639.6 | 639.5 | 639.4 | 639.4 | 639.4 | 639.4 | 639.4 | 639.4 | 639.4 | 639.4 |
| 157.5° | 655.7 | 655.6 | 655.4 | 655.4 | 655.6 | 655.7 | 655.8 | 655.9 | 655.8 | 655.7 | 655.6 |
| 160°   | 670.2 | 670.2 | 670.2 | 670.3 | 670.6 | 670.8 | 671.1 | 671.3 | 671.1 | 670.8 | 670.6 |
| 162.5° | 683.6 | 683.5 | 683.4 | 683.5 | 683.9 | 684.3 | 684.7 | 685.0 | 684.7 | 684.3 | 683.9 |
| 165°   | 694.7 | 694.7 | 694.7 | 694.9 | 695.3 | 695.7 | 696.1 | 696.4 | 696.1 | 695.7 | 695.3 |
| 167.5° | 704.2 | 704.1 | 703.9 | 704.1 | 704.6 | 705.1 | 705.6 | 706.1 | 705.6 | 705.1 | 704.6 |
| 170°   | 711.8 | 711.8 | 711.8 | 712.1 | 712.6 | 713.1 | 713.6 | 714.1 | 713.6 | 713.1 | 712.6 |
| 172.5° | 718.1 | 718.1 | 718.1 | 718.4 | 718.9 | 719.4 | 719.9 | 720.4 | 719.9 | 719.4 | 718.9 |
| 175°   | 722.1 | 722.1 | 722.1 | 722.4 | 722.9 | 723.4 | 723.9 | 724.4 | 723.9 | 723.4 | 722.9 |
| 177.5° | 724.4 | 724.4 | 724.4 | 724.6 | 725.2 | 725.7 | 726.2 | 726.7 | 726.2 | 725.7 | 725.2 |
| 180°   | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 |



TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 | 3245.0 |
| 2.5°   | 3141.2 | 3103.3 | 3065.4 | 3038.1 | 3010.9 | 2976.9 | 2943.0 | 2941.7 | 2940.3 | 2915.1 | 2889.8 |
| 5°     | 2955.0 | 2889.1 | 2823.3 | 2758.7 | 2694.2 | 2629.7 | 2565.1 | 2550.5 | 2535.9 | 2513.9 | 2492.0 |
| 7.5°   | 2790.0 | 2684.9 | 2579.8 | 2497.3 | 2414.8 | 2350.3 | 2285.8 | 2241.8 | 2197.9 | 2164.0 | 2130.1 |
| 10°    | 2613.0 | 2482.7 | 2352.3 | 2252.5 | 2152.7 | 2082.9 | 2013.0 | 1962.4 | 1911.9 | 1887.9 | 1864.0 |
| 12.5°  | 2429.4 | 2287.7 | 2146.1 | 2048.3 | 1950.5 | 1866.7 | 1782.8 | 1736.9 | 1691.0 | 1657.8 | 1624.5 |
| 15°    | 2260.5 | 2108.1 | 1955.8 | 1852.0 | 1748.2 | 1669.7 | 1591.2 | 1545.3 | 1499.4 | 1466.2 | 1432.9 |
| 17.5°  | 2096.8 | 1943.2 | 1789.5 | 1684.4 | 1579.3 | 1508.1 | 1436.9 | 1392.3 | 1347.8 | 1327.1 | 1306.5 |
| 20°    | 1947.8 | 1792.8 | 1637.8 | 1538.7 | 1439.6 | 1369.7 | 1299.9 | 1275.9 | 1252.0 | 1232.7 | 1213.4 |
| 22.5°  | 1800.1 | 1651.1 | 1502.1 | 1407.0 | 1311.8 | 1261.3 | 1210.7 | 1191.4 | 1172.1 | 1157.5 | 1142.9 |
| 25°    | 1676.4 | 1528.0 | 1379.7 | 1296.5 | 1213.4 | 1174.1 | 1134.9 | 1122.3 | 1109.6 | 1095.0 | 1080.3 |
| 27.5°  | 1551.3 | 1410.3 | 1269.3 | 1202.7 | 1136.2 | 1104.3 | 1072.4 | 1056.4 | 1040.4 | 1028.5 | 1016.5 |
| 30°    | 1440.9 | 1310.5 | 1180.1 | 1124.9 | 1069.7 | 1041.8 | 1013.8 | 996.5  | 979.2  | 967.9  | 956.6  |
| 32.5°  | 1334.5 | 1218.7 | 1103.0 | 1055.7 | 1008.5 | 981.2  | 953.9  | 937.3  | 920.7  | 907.4  | 894.1  |
| 35°    | 1236.0 | 1135.6 | 1035.1 | 991.9  | 948.6  | 921.4  | 894.1  | 877.4  | 860.8  | 847.5  | 834.2  |
| 37.5°  | 1149.5 | 1058.4 | 967.3  | 926.7  | 886.1  | 862.1  | 838.2  | 820.9  | 803.6  | 789.6  | 775.7  |
| 40°    | 1068.4 | 987.9  | 907.4  | 868.1  | 828.9  | 802.9  | 777.0  | 761.7  | 746.4  | 733.8  | 721.1  |
| 42.5°  | 996.5  | 922.7  | 848.8  | 810.3  | 771.7  | 747.1  | 722.4  | 704.5  | 686.5  | 679.2  | 671.9  |
| 45°    | 920.7  | 855.5  | 790.3  | 753.0  | 715.8  | 689.8  | 663.9  | 648.6  | 633.3  | 626.7  | 620.0  |
| 47.5°  | 854.2  | 793.6  | 733.1  | 696.5  | 659.9  | 636.6  | 613.3  | 601.4  | 589.4  | 580.1  | 570.8  |
| 50°    | 789.0  | 730.4  | 671.9  | 636.6  | 601.4  | 581.4  | 561.5  | 546.8  | 532.2  | 525.5  | 518.9  |
| 52.5°  | 726.4  | 673.2  | 620.0  | 584.1  | 548.2  | 528.9  | 509.6  | 496.9  | 484.3  | 470.3  | 456.4  |
| 55°    | 655.9  | 609.4  | 562.8  | 530.9  | 498.9  | 479.0  | 459.0  | 444.4  | 429.7  | 415.1  | 400.5  |
| 57.5°  | 597.4  | 551.5  | 505.6  | 477.0  | 448.4  | 429.1  | 409.8  | 393.8  | 377.9  | 365.9  | 353.9  |
| 60°    | 533.5  | 493.6  | 453.7  | 425.8  | 397.8  | 379.2  | 360.6  | 345.3  | 330.0  | 324.0  | 318.0  |
| 62.5°  | 473.6  | 436.4  | 399.1  | 374.5  | 349.9  | 332.0  | 314.0  | 304.0  | 294.0  | 290.0  | 286.1  |
| 65°    | 412.4  | 380.5  | 348.6  | 326.0  | 303.3  | 288.0  | 272.7  | 268.1  | 263.4  | 260.1  | 256.8  |
| 67.5°  | 355.2  | 328.0  | 300.7  | 280.7  | 260.8  | 250.1  | 239.5  | 234.2  | 228.8  | 224.8  | 220.9  |
| 70°    | 303.3  | 279.4  | 255.5  | 238.2  | 220.9  | 210.9  | 200.9  | 196.2  | 191.6  | 184.3  | 177.0  |
| 72.5°  | 247.5  | 228.8  | 210.2  | 196.9  | 183.6  | 175.0  | 166.3  | 157.0  | 147.7  | 141.0  | 134.4  |
| 75°    | 204.9  | 186.3  | 167.6  | 155.0  | 142.4  | 132.4  | 122.4  | 119.1  | 115.8  | 113.8  | 111.8  |
| 77.5°  | 157.0  | 141.0  | 125.1  | 115.1  | 105.1  | 100.5  | 95.8   | 93.8   | 91.8   | 91.1   | 90.5   |
| 80°    | 113.1  | 99.8   | 86.5   | 81.2   | 75.8   | 74.5   | 73.2   | 71.8   | 70.5   | 69.8   | 69.2   |
| 82.5°  | 70.5   | 63.9   | 57.2   | 55.9   | 54.5   | 53.9   | 53.2   | 52.6   | 51.9   | 51.2   | 50.6   |
| 85°    | 41.2   | 38.6   | 35.9   | 35.3   | 34.6   | 33.9   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   |
| 87.5°  | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 17.3   | 16.6   | 16.0   |
| 90°    | 5.6    | 7.1    | 8.7    | 10.4   | 12.0   | 13.7   | 14.2   | 14.7   | 15.2   | 15.7   | 16.1   |
| 92.5°  | 20.2   | 20.9   | 21.7   | 22.4   | 23.2   | 24.0   | 24.3   | 24.7   | 25.1   | 25.5   | 25.5   |
| 95°    | 37.2   | 38.2   | 39.2   | 40.2   | 41.2   | 42.2   | 42.7   | 43.2   | 43.7   | 44.2   | 44.5   |
| 97.5°  | 57.9   | 58.6   | 59.3   | 60.1   | 60.8   | 61.6   | 62.2   | 62.9   | 63.5   | 64.1   | 64.4   |
| 100°   | 80.6   | 81.3   | 81.9   | 82.6   | 83.2   | 83.8   | 84.2   | 84.6   | 85.0   | 85.4   | 85.7   |
| 102.5° | 104.8  | 105.4  | 106.3  | 107.2  | 108.1  | 108.9  | 109.3  | 109.7  | 110.1  | 110.5  | 110.6  |
| 105°   | 129.4  | 130.0  | 131.2  | 132.3  | 133.5  | 134.6  | 134.6  | 134.6  | 134.6  | 134.6  | 134.7  |
| 107.5° | 158.5  | 158.8  | 159.3  | 159.8  | 160.3  | 160.9  | 161.2  | 161.6  | 162.0  | 162.4  | 162.5  |
| 110°   | 186.4  | 186.6  | 186.9  | 187.2  | 187.4  | 187.7  | 188.2  | 188.7  | 189.2  | 189.7  | 189.8  |



TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.4 | 214.5 | 214.5 | 214.5 | 214.5 | 214.5 | 215.1 | 215.7 | 216.4 | 217.0 | 217.3 |
| 115°   | 243.9 | 244.0 | 243.7 | 243.5 | 243.2 | 243.0 | 243.1 | 243.2 | 243.4 | 243.5 | 243.5 |
| 117.5° | 272.0 | 271.9 | 271.7 | 271.4 | 271.2 | 270.9 | 270.9 | 270.9 | 270.9 | 270.9 | 270.7 |
| 120°   | 301.4 | 301.4 | 300.8 | 300.2 | 299.5 | 298.9 | 298.8 | 298.6 | 298.5 | 298.4 | 298.2 |
| 122.5° | 328.3 | 328.4 | 328.2 | 327.9 | 327.7 | 327.4 | 327.0 | 326.6 | 326.3 | 325.9 | 325.5 |
| 125°   | 356.3 | 356.4 | 356.1 | 355.9 | 355.6 | 355.4 | 354.8 | 354.3 | 353.8 | 353.3 | 352.8 |
| 127.5° | 384.1 | 384.3 | 384.1 | 383.8 | 383.6 | 383.3 | 382.5 | 381.8 | 381.0 | 380.3 | 379.6 |
| 130°   | 411.3 | 411.6 | 411.3 | 410.9 | 410.5 | 410.1 | 409.6 | 409.1 | 408.6 | 408.1 | 407.4 |
| 132.5° | 437.6 | 437.9 | 437.7 | 437.4 | 437.2 | 436.9 | 436.3 | 435.7 | 435.0 | 434.4 | 433.8 |
| 135°   | 463.3 | 463.7 | 463.5 | 463.4 | 463.3 | 463.2 | 462.7 | 462.1 | 461.6 | 461.1 | 460.7 |
| 137.5° | 487.4 | 487.9 | 488.3 | 488.6 | 489.0 | 489.4 | 488.8 | 488.1 | 487.5 | 486.9 | 486.4 |
| 140°   | 513.0 | 513.4 | 513.5 | 513.7 | 513.8 | 513.9 | 513.8 | 513.7 | 513.5 | 513.4 | 512.9 |
| 142.5° | 536.4 | 536.9 | 537.1 | 537.4 | 537.6 | 537.9 | 537.8 | 537.6 | 537.5 | 537.4 | 537.0 |
| 145°   | 559.4 | 559.7 | 560.1 | 560.5 | 560.9 | 561.3 | 561.1 | 561.0 | 560.9 | 560.8 | 560.4 |
| 147.5° | 581.5 | 582.0 | 582.4 | 582.7 | 583.1 | 583.5 | 583.5 | 583.5 | 583.5 | 583.5 | 583.1 |
| 150°   | 602.8 | 603.0 | 603.3 | 603.5 | 603.8 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 603.7 |
| 152.5° | 621.5 | 621.8 | 621.9 | 622.0 | 622.2 | 622.3 | 622.5 | 622.8 | 623.1 | 623.3 | 623.1 |
| 155°   | 639.4 | 639.5 | 639.6 | 639.7 | 639.9 | 640.0 | 640.5 | 641.0 | 641.5 | 642.0 | 641.8 |
| 157.5° | 655.4 | 655.4 | 655.6 | 655.7 | 655.8 | 655.9 | 656.5 | 657.0 | 657.5 | 658.0 | 657.9 |
| 160°   | 670.3 | 670.2 | 670.2 | 670.2 | 670.2 | 670.2 | 670.8 | 671.5 | 672.1 | 672.7 | 672.8 |
| 162.5° | 683.5 | 683.4 | 683.5 | 683.6 | 683.8 | 683.9 | 684.5 | 685.2 | 685.8 | 686.4 | 686.3 |
| 165°   | 694.9 | 694.7 | 694.7 | 694.7 | 694.7 | 694.7 | 695.5 | 696.3 | 697.0 | 697.8 | 697.7 |
| 167.5° | 704.1 | 703.9 | 704.1 | 704.2 | 704.3 | 704.4 | 705.2 | 706.0 | 706.7 | 707.5 | 707.5 |
| 170°   | 712.1 | 711.8 | 711.8 | 711.8 | 711.8 | 711.8 | 712.7 | 713.6 | 714.5 | 715.4 | 715.4 |
| 172.5° | 718.4 | 718.1 | 718.1 | 718.1 | 718.1 | 718.1 | 718.9 | 719.6 | 720.4 | 721.2 | 721.1 |
| 175°   | 722.4 | 722.1 | 722.1 | 722.1 | 722.1 | 722.1 | 722.9 | 723.6 | 724.4 | 725.2 | 725.1 |
| 177.5° | 724.6 | 724.4 | 724.4 | 724.4 | 724.4 | 724.4 | 725.2 | 725.9 | 726.7 | 727.4 | 727.4 |
| 180°   | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 |

TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 3245.0 | 3245.0 | 3245.0 | 3245.0 |
| 2.5°   | 2883.1 | 2876.5 | 2873.8 | 2871.2 |
| 5°     | 2471.4 | 2450.7 | 2446.1 | 2441.4 |
| 7.5°   | 2121.4 | 2112.8 | 2084.2 | 2055.6 |
| 10°    | 1837.4 | 1810.8 | 1798.8 | 1786.8 |
| 12.5°  | 1599.9 | 1575.3 | 1571.3 | 1567.3 |
| 15°    | 1415.6 | 1398.3 | 1392.3 | 1386.4 |
| 17.5°  | 1294.5 | 1282.6 | 1275.3 | 1267.9 |
| 20°    | 1204.7 | 1196.1 | 1190.8 | 1185.5 |
| 22.5°  | 1136.2 | 1129.6 | 1125.6 | 1121.6 |
| 25°    | 1070.4 | 1060.4 | 1057.1 | 1053.7 |
| 27.5°  | 1007.8 | 999.2  | 995.9  | 992.5  |
| 30°    | 949.3  | 942.0  | 937.3  | 932.7  |
| 32.5°  | 885.4  | 876.8  | 874.1  | 871.5  |
| 35°    | 828.9  | 823.6  | 820.9  | 818.2  |
| 37.5°  | 769.0  | 762.4  | 758.4  | 754.4  |
| 40°    | 717.8  | 714.5  | 712.5  | 710.5  |
| 42.5°  | 665.9  | 659.9  | 659.2  | 658.6  |
| 45°    | 614.0  | 608.0  | 606.7  | 605.4  |
| 47.5°  | 565.5  | 560.1  | 559.5  | 558.8  |
| 50°    | 511.6  | 504.2  | 498.9  | 493.6  |
| 52.5°  | 449.7  | 443.0  | 438.4  | 433.7  |
| 55°    | 393.2  | 385.8  | 381.8  | 377.9  |
| 57.5°  | 350.6  | 347.3  | 345.3  | 343.3  |
| 60°    | 316.0  | 314.0  | 312.7  | 311.3  |
| 62.5°  | 284.1  | 282.1  | 282.1  | 282.1  |
| 65°    | 254.8  | 252.8  | 250.8  | 248.8  |
| 67.5°  | 216.9  | 212.9  | 212.2  | 211.5  |
| 70°    | 171.0  | 165.0  | 164.3  | 163.6  |
| 72.5°  | 133.7  | 133.0  | 131.7  | 130.4  |
| 75°    | 110.4  | 109.1  | 109.1  | 109.1  |
| 77.5°  | 89.1   | 87.8   | 87.8   | 87.8   |
| 80°    | 68.5   | 67.9   | 68.5   | 69.2   |
| 82.5°  | 50.6   | 50.6   | 49.9   | 49.2   |
| 85°    | 32.6   | 31.9   | 31.9   | 31.9   |
| 87.5°  | 16.0   | 16.0   | 16.0   | 16.0   |
| 90°    | 16.4   | 16.6   | 16.9   | 17.1   |
| 92.5°  | 25.3   | 25.0   | 24.8   | 24.5   |
| 95°    | 44.5   | 44.5   | 44.5   | 44.5   |
| 97.5°  | 64.3   | 64.1   | 64.0   | 63.9   |
| 100°   | 85.9   | 86.2   | 86.4   | 86.7   |
| 102.5° | 110.5  | 110.3  | 110.2  | 110.1  |
| 105°   | 135.0  | 135.2  | 135.5  | 135.8  |
| 107.5° | 162.4  | 162.2  | 162.1  | 162.0  |
| 110°   | 189.6  | 189.3  | 189.1  | 188.8  |



TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 217.3 | 217.3 | 217.3 | 217.3 |
| 115°   | 243.4 | 243.2 | 243.1 | 243.0 |
| 117.5° | 270.4 | 270.0 | 269.6 | 269.2 |
| 120°   | 297.9 | 297.7 | 297.4 | 297.2 |
| 122.5° | 325.1 | 324.7 | 324.4 | 324.0 |
| 125°   | 352.3 | 351.8 | 351.3 | 350.8 |
| 127.5° | 379.1 | 378.6 | 378.1 | 377.6 |
| 130°   | 406.5 | 405.6 | 404.7 | 403.8 |
| 132.5° | 433.1 | 432.5 | 431.8 | 431.2 |
| 135°   | 460.5 | 460.2 | 460.0 | 459.7 |
| 137.5° | 486.0 | 485.6 | 485.2 | 484.8 |
| 140°   | 512.0 | 511.1 | 510.2 | 509.4 |
| 142.5° | 536.4 | 535.7 | 535.1 | 534.5 |
| 145°   | 559.9 | 559.4 | 558.9 | 558.4 |
| 147.5° | 582.4 | 581.6 | 580.8 | 580.1 |
| 150°   | 602.9 | 602.1 | 601.4 | 600.6 |
| 152.5° | 622.5 | 621.9 | 621.2 | 620.6 |
| 155°   | 640.9 | 640.0 | 639.2 | 638.3 |
| 157.5° | 657.1 | 656.3 | 655.6 | 654.8 |
| 160°   | 672.3 | 671.8 | 671.3 | 670.8 |
| 162.5° | 685.4 | 684.5 | 683.6 | 682.8 |
| 165°   | 696.8 | 695.9 | 695.1 | 694.2 |
| 167.5° | 706.7 | 706.0 | 705.2 | 704.4 |
| 170°   | 714.5 | 713.6 | 712.7 | 711.8 |
| 172.5° | 720.2 | 719.3 | 718.4 | 717.6 |
| 175°   | 724.2 | 723.3 | 722.4 | 721.5 |
| 177.5° | 726.5 | 725.6 | 724.7 | 723.8 |
| 180°   | 726.1 | 726.1 | 726.1 | 726.1 |

TEST NUMBER: P831850

CATALOG NUMBER: S123RDIP-S1000D585U835-4F0-1E-UDD-G1

**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 | 14.65            | 15.62 | 15.45 | 16.43 | 17.42 | 19.32          | 20.29 | 20.11 | 21.10 | 22.09 |
|                 | 3H   | 15.89            | 16.75 | 16.70 | 17.57 | 18.59 | 20.83          | 21.69 | 21.64 | 22.51 | 23.53 |
|                 | 4H   | 16.27            | 17.09 | 17.10 | 17.92 | 18.95 | 21.32          | 22.14 | 22.15 | 22.97 | 24.00 |
|                 | 6H   | 16.56            | 17.31 | 17.40 | 18.15 | 19.19 | 21.64          | 22.39 | 22.48 | 23.23 | 24.27 |
|                 | 8H   | 16.65            | 17.37 | 17.50 | 18.22 | 19.27 | 21.72          | 22.44 | 22.57 | 23.29 | 24.34 |
|                 | 12H  | 16.71            | 17.39 | 17.56 | 18.23 | 19.31 | 21.76          | 22.44 | 22.61 | 23.29 | 24.36 |
| 4H              | 2H   | 15.39            | 16.21 | 16.22 | 17.04 | 18.07 | 19.33          | 20.15 | 20.16 | 20.97 | 22.00 |
|                 | 3H   | 16.77            | 17.45 | 17.62 | 18.31 | 19.36 | 21.00          | 21.68 | 21.84 | 22.54 | 23.58 |
|                 | 4H   | 17.23            | 17.85 | 18.09 | 18.71 | 19.78 | 21.61          | 22.23 | 22.47 | 23.08 | 24.16 |
|                 | 6H   | 17.61            | 18.14 | 18.48 | 19.02 | 20.10 | 22.06          | 22.58 | 22.93 | 23.47 | 24.55 |
|                 | 8H   | 17.74            | 18.23 | 18.61 | 19.11 | 20.20 | 22.19          | 22.68 | 23.06 | 23.56 | 24.65 |
|                 | 12H  | 17.82            | 18.26 | 18.71 | 19.16 | 20.26 | 22.26          | 22.70 | 23.15 | 23.60 | 24.69 |
| 8H              | 4H   | 17.56            | 18.05 | 18.43 | 18.93 | 20.02 | 21.59          | 22.08 | 22.46 | 22.96 | 24.05 |
|                 | 6H   | 18.03            | 18.43 | 18.93 | 19.35 | 20.44 | 22.09          | 22.50 | 22.99 | 23.42 | 24.51 |
|                 | 8H   | 18.22            | 18.58 | 19.13 | 19.49 | 20.60 | 22.27          | 22.63 | 23.19 | 23.55 | 24.66 |
|                 | 12H  | 18.37            | 18.68 | 19.28 | 19.59 | 20.75 | 22.40          | 22.71 | 23.31 | 23.62 | 24.78 |
| 12H             | 4H   | 17.58            | 18.02 | 18.47 | 18.92 | 20.01 | 21.54          | 21.99 | 22.44 | 22.88 | 23.98 |
|                 | 6H   | 18.09            | 18.45 | 19.00 | 19.36 | 20.47 | 22.06          | 22.42 | 22.97 | 23.34 | 24.45 |
|                 | 8H   | 18.31            | 18.63 | 19.22 | 19.53 | 20.69 | 22.26          | 22.58 | 23.17 | 23.48 | 24.65 |