

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: P831876

Luminaire Tested: S123RDIP-S1000D805U835-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831876  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D805U835-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

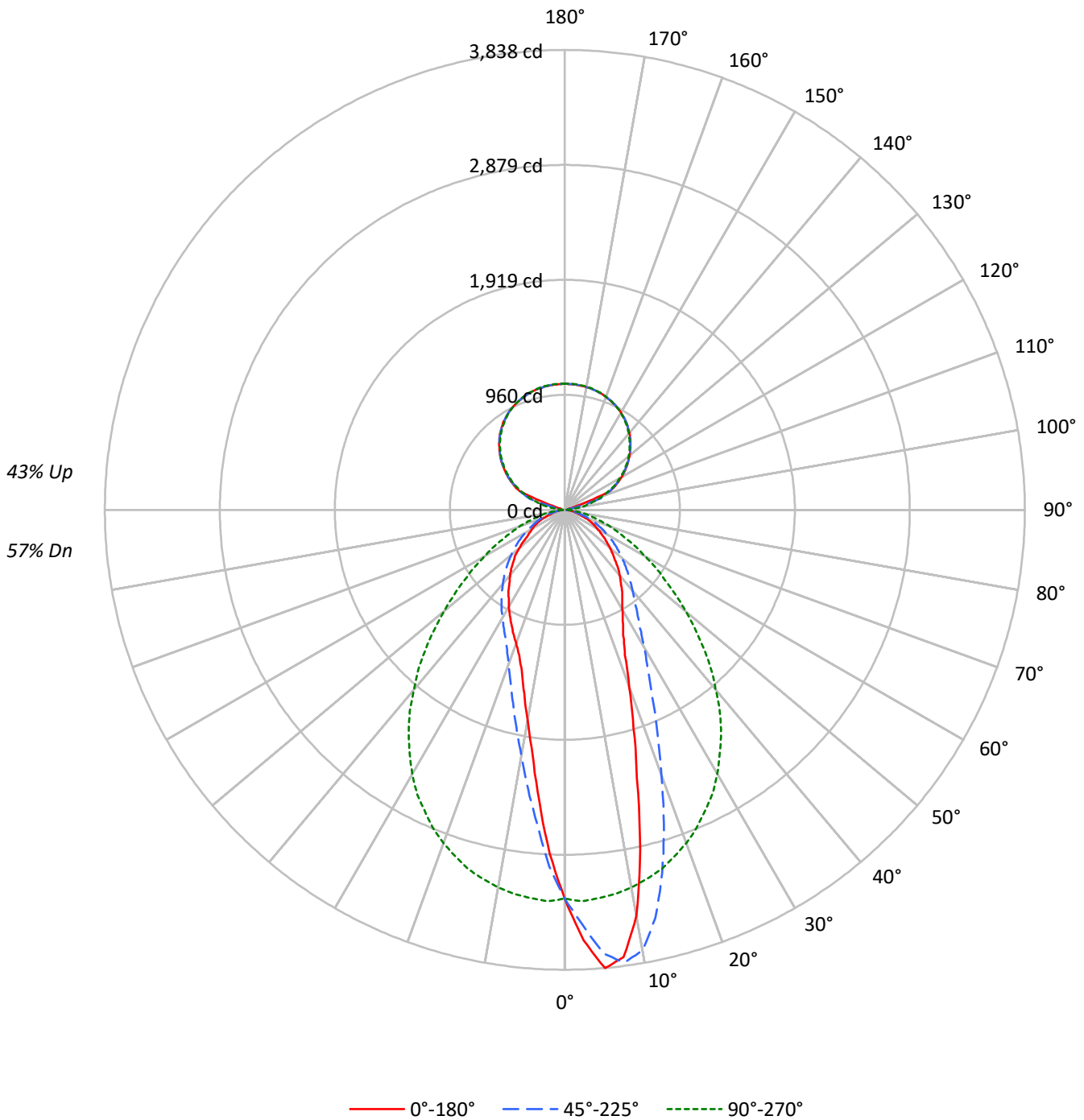
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7512.4 lumens  
Efficiency: N/A  
Efficacy: 134.9 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: General Diffuse  
  
Input Watts (W): 55.7  
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: P831876

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### Luminous Intensity Polar Plot





TEST NUMBER: P831876

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF  | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |    |    |    | 20 |    |    |  |  |
| RC  | 80  |     |     |     |     | 70  |     |     |    |    | 50 |    |    |    |    | 30 |    |    |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |  |  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |  |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 | 57 |  |  |
| 1   | 100 | 96  | 93  | 89  | 93  | 90  | 87  | 84  | 78 | 76 | 74 | 67 | 65 | 64 | 57 | 56 | 55 | 50 |  |  |
| 2   | 92  | 85  | 79  | 75  | 86  | 80  | 75  | 71  | 70 | 66 | 63 | 60 | 57 | 55 | 51 | 49 | 48 | 44 |  |  |
| 3   | 85  | 76  | 69  | 64  | 79  | 71  | 65  | 60  | 62 | 58 | 54 | 54 | 51 | 48 | 46 | 44 | 42 | 38 |  |  |
| 4   | 78  | 68  | 60  | 55  | 73  | 64  | 57  | 52  | 56 | 51 | 47 | 49 | 45 | 42 | 42 | 39 | 37 | 34 |  |  |
| 5   | 72  | 61  | 54  | 48  | 67  | 58  | 51  | 46  | 51 | 45 | 41 | 45 | 40 | 37 | 39 | 36 | 33 | 30 |  |  |
| 6   | 67  | 56  | 48  | 42  | 62  | 52  | 45  | 40  | 46 | 41 | 37 | 41 | 37 | 33 | 36 | 32 | 30 | 27 |  |  |
| 7   | 62  | 51  | 43  | 38  | 58  | 48  | 41  | 36  | 43 | 37 | 33 | 38 | 33 | 30 | 33 | 30 | 27 | 25 |  |  |
| 8   | 58  | 46  | 39  | 34  | 54  | 44  | 37  | 33  | 39 | 34 | 30 | 35 | 30 | 27 | 31 | 27 | 25 | 22 |  |  |
| 9   | 54  | 43  | 36  | 31  | 51  | 41  | 34  | 30  | 36 | 31 | 27 | 32 | 28 | 25 | 29 | 25 | 23 | 21 |  |  |
| 10  | 51  | 40  | 33  | 28  | 48  | 38  | 31  | 27  | 34 | 29 | 25 | 30 | 26 | 23 | 27 | 23 | 21 | 19 |  |  |

**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  | 3.9       |
| 10°-20°   | 684.4  | 9.1       |
| 20°-30°   | 785.3  | 10.5      |
| 30°-40°   | 774.0  | 10.3      |
| 40°-50°   | 682.6  | 9.1       |
| 50°-60°   | 525.1  | 7.0       |
| 60°-70°   | 345.2  | 4.6       |
| 70°-80°   | 167.7  | 2.2       |
| 80°-90°   | 44.4   | 0.6       |
| 90°-100°  | 37.1   | 0.5       |
| 100°-110° | 179.4  | 2.4       |
| 110°-120° | 439.6  | 5.9       |
| 120°-130° | 558.1  | 7.4       |
| 130°-140° | 596.2  | 7.9       |
| 140°-150° | 557.5  | 7.4       |
| 150°-160° | 449.7  | 6.0       |
| 160°-170° | 290.2  | 3.9       |
| 170°-180° | 100.0  | 1.3       |
| 0°-30°    | 1765.5 | 23.5      |
| 0°-40°    | 2539.5 | 33.8      |
| 0°-60°    | 3747.2 | 49.9      |
| 0°-90°    | 4304.5 | 57.3      |
| 90°-120°  | 656.1  | 8.7       |
| 90°-150°  | 2367.9 | 31.5      |
| 90°-180°  | 3208.0 | 42.7      |
| 0°-180°   | 7512.4 | 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°  | 24   | 19   | 1    | 19   | 24   | 12   |
| 95°  | 30   | 24   | 48   | 24   | 30   | 25   |
| 105° | 34   | 171  | 233  | 171  | 34   | 72   |
| 115° | 460  | 449  | 437  | 449  | 460  | 432  |
| 125° | 629  | 625  | 616  | 625  | 629  | 562  |
| 135° | 775  | 775  | 767  | 775  | 775  | 598  |
| 145° | 894  | 892  | 885  | 892  | 894  | 558  |
| 155° | 973  | 974  | 975  | 974  | 973  | 449  |
| 165° | 1026 | 1025 | 1028 | 1025 | 1026 | 290  |
| 175° | 1048 | 1049 | 1052 | 1049 | 1048 | 100  |
| 180° | 1052 | 1052 | 1052 | 1052 | 1052 |      |



TEST NUMBER: P831876

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**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°    | 23.5   | 23.1   | 22.8   | 22.4   | 22.1   | 21.5   | 20.8   | 20.2   | 19.5   | 18.8   | 16.5   |
| 92.5°  | 26.6   | 26.4   | 26.2   | 26.1   | 25.9   | 25.2   | 24.0   | 22.8   | 21.5   | 20.3   | 18.8   |
| 95°    | 29.7   | 29.7   | 29.7   | 29.7   | 29.7   | 29.1   | 27.9   | 26.7   | 25.5   | 24.2   | 22.3   |
| 97.5°  | 32.1   | 31.9   | 31.7   | 31.5   | 31.4   | 30.6   | 29.2   | 27.8   | 26.4   | 25.0   | 33.9   |
| 100°   | 32.8   | 32.7   | 32.5   | 32.3   | 32.1   | 31.4   | 30.0   | 28.6   | 27.2   | 25.8   | 52.9   |
| 102.5° | 33.6   | 33.3   | 32.9   | 32.6   | 32.2   | 34.9   | 40.7   | 46.4   | 52.1   | 57.9   | 88.1   |
| 105°   | 34.4   | 34.1   | 33.7   | 33.4   | 33.0   | 48.2   | 79.0   | 109.7  | 140.5  | 171.2  | 186.8  |
| 107.5° | 81.3   | 104.1  | 126.8  | 149.6  | 172.3  | 197.1  | 223.9  | 250.6  | 277.4  | 304.1  | 301.5  |
| 110°   | 215.0  | 239.8  | 264.7  | 289.5  | 314.4  | 329.7  | 335.4  | 341.1  | 346.9  | 352.6  | 350.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 407.3  | 407.7  | 408.0  | 408.4  | 408.7  | 408.1  | 406.5  | 405.0  | 403.4  | 401.8  | 399.9  |
| 115°   | 459.7  | 459.0  | 458.3  | 457.6  | 456.9  | 455.7  | 454.0  | 452.2  | 450.5  | 448.8  | 447.2  |
| 117.5° | 501.9  | 501.7  | 501.6  | 501.4  | 501.2  | 500.4  | 499.0  | 497.7  | 496.3  | 494.9  | 494.0  |
| 120°   | 545.7  | 545.7  | 545.7  | 545.7  | 545.7  | 545.0  | 543.6  | 542.2  | 540.8  | 539.4  | 538.9  |
| 122.5° | 588.7  | 588.5  | 588.3  | 588.2  | 588.0  | 587.5  | 586.6  | 585.7  | 584.9  | 584.0  | 583.3  |
| 125°   | 628.6  | 628.2  | 627.9  | 627.5  | 627.2  | 626.8  | 626.5  | 626.1  | 625.8  | 625.4  | 624.7  |
| 127.5° | 667.7  | 668.0  | 668.3  | 668.7  | 669.0  | 669.0  | 668.4  | 667.9  | 667.4  | 666.9  | 666.0  |
| 130°   | 705.2  | 705.5  | 705.9  | 706.2  | 706.6  | 706.4  | 705.7  | 705.0  | 704.3  | 703.6  | 702.9  |
| 132.5° | 739.6  | 740.1  | 740.6  | 741.1  | 741.7  | 741.6  | 740.9  | 740.2  | 739.5  | 738.8  | 738.3  |
| 135°   | 774.8  | 775.3  | 775.8  | 776.3  | 776.8  | 776.8  | 776.3  | 775.8  | 775.3  | 774.8  | 774.1  |
| 137.5° | 808.4  | 808.7  | 809.1  | 809.4  | 809.8  | 809.5  | 808.6  | 807.8  | 806.9  | 806.0  | 805.7  |
| 140°   | 838.1  | 838.4  | 838.8  | 839.1  | 839.5  | 839.3  | 838.6  | 837.9  | 837.2  | 836.5  | 836.0  |
| 142.5° | 865.4  | 866.0  | 866.5  | 867.0  | 867.5  | 867.5  | 867.0  | 866.5  | 866.0  | 865.4  | 864.9  |
| 145°   | 893.6  | 893.6  | 893.6  | 893.6  | 893.6  | 893.4  | 893.1  | 892.7  | 892.4  | 892.0  | 891.7  |
| 147.5° | 913.9  | 914.8  | 915.7  | 916.5  | 917.4  | 917.7  | 917.3  | 917.0  | 916.6  | 916.3  | 915.9  |
| 150°   | 937.4  | 937.9  | 938.4  | 938.9  | 939.5  | 939.5  | 939.2  | 938.8  | 938.5  | 938.2  | 937.8  |
| 152.5° | 956.1  | 957.0  | 957.9  | 958.7  | 959.6  | 959.7  | 959.0  | 958.3  | 957.6  | 956.9  | 956.7  |
| 155°   | 973.3  | 974.4  | 975.4  | 976.5  | 977.5  | 977.6  | 976.7  | 975.9  | 975.0  | 974.1  | 973.9  |
| 157.5° | 988.2  | 989.6  | 991.0  | 992.4  | 993.7  | 993.9  | 992.9  | 991.8  | 990.8  | 989.8  | 989.9  |
| 160°   | 1002.3 | 1003.5 | 1004.7 | 1005.9 | 1007.1 | 1007.2 | 1006.2 | 1005.1 | 1004.1 | 1003.0 | 1003.2 |
| 162.5° | 1015.6 | 1016.6 | 1017.6 | 1018.7 | 1019.7 | 1019.6 | 1018.4 | 1017.2 | 1016.0 | 1014.8 | 1014.9 |
| 165°   | 1025.7 | 1026.9 | 1028.1 | 1029.4 | 1030.6 | 1030.5 | 1029.1 | 1027.7 | 1026.3 | 1024.9 | 1025.1 |
| 167.5° | 1033.5 | 1034.9 | 1036.3 | 1037.7 | 1039.1 | 1039.1 | 1037.7 | 1036.3 | 1034.9 | 1033.5 | 1033.5 |
| 170°   | 1040.6 | 1042.0 | 1043.3 | 1044.7 | 1046.1 | 1046.1 | 1044.7 | 1043.3 | 1042.0 | 1040.6 | 1040.6 |
| 172.5° | 1044.5 | 1046.0 | 1047.6 | 1049.2 | 1050.7 | 1050.8 | 1049.4 | 1048.0 | 1046.6 | 1045.3 | 1045.1 |
| 175°   | 1048.4 | 1049.8 | 1051.2 | 1052.6 | 1053.9 | 1054.0 | 1052.8 | 1051.6 | 1050.4 | 1049.2 | 1049.0 |
| 177.5° | 1049.2 | 1050.9 | 1052.6 | 1054.4 | 1056.1 | 1056.3 | 1054.9 | 1053.5 | 1052.1 | 1050.7 | 1050.6 |
| 180°   | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 |



TEST NUMBER: P831876

CATALOG NUMBER: S123RDIP-S1000D805U835-4F0-1E-UDD-G

**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°    | 14.2   | 12.0   | 9.7    | 7.7    | 6.0    | 4.3    | 2.5    | 0.8    | 2.5    | 4.3    | 6.0    |
| 92.5°  | 17.2   | 15.6   | 14.1   | 13.8   | 14.9   | 15.9   | 16.9   | 18.0   | 16.9   | 15.9   | 14.9   |
| 95°    | 20.4   | 18.5   | 16.6   | 19.2   | 26.3   | 33.4   | 40.6   | 47.7   | 40.6   | 33.4   | 26.3   |
| 97.5°  | 42.7   | 51.6   | 60.5   | 67.3   | 72.2   | 77.1   | 81.9   | 86.8   | 81.9   | 77.1   | 72.2   |
| 100°   | 80.0   | 107.1  | 134.2  | 146.0  | 142.5  | 139.1  | 135.6  | 132.1  | 135.6  | 139.1  | 142.5  |
| 102.5° | 118.3  | 148.5  | 178.8  | 192.8  | 190.5  | 188.2  | 186.0  | 183.7  | 186.0  | 188.2  | 190.5  |
| 105°   | 202.5  | 218.1  | 233.8  | 240.6  | 238.7  | 236.8  | 234.9  | 233.0  | 234.9  | 236.8  | 238.7  |
| 107.5° | 298.9  | 296.3  | 293.7  | 291.6  | 290.0  | 288.5  | 286.9  | 285.4  | 286.9  | 288.5  | 290.0  |
| 110°   | 348.8  | 346.9  | 344.9  | 343.3  | 341.9  | 340.5  | 339.1  | 337.7  | 339.1  | 340.5  | 341.9  |





TEST NUMBER: P831876

CATALOG NUMBER: S123RDIP-S1000D805U835-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 398.0  | 396.1  | 394.2  | 392.6  | 391.4  | 390.2  | 389.0  | 387.8  | 389.0  | 390.2  | 391.4  |
| 115°   | 445.6  | 444.1  | 442.5  | 441.2  | 440.2  | 439.1  | 438.1  | 437.0  | 438.1  | 439.1  | 440.2  |
| 117.5° | 493.1  | 492.3  | 491.4  | 490.4  | 489.1  | 487.9  | 486.7  | 485.5  | 486.7  | 487.9  | 489.1  |
| 120°   | 538.4  | 537.9  | 537.4  | 536.3  | 534.7  | 533.2  | 531.6  | 530.1  | 531.6  | 533.2  | 534.7  |
| 122.5° | 582.6  | 581.9  | 581.2  | 580.3  | 579.0  | 577.8  | 576.6  | 575.4  | 576.6  | 577.8  | 579.0  |
| 125°   | 624.0  | 623.4  | 622.7  | 621.6  | 620.2  | 618.8  | 617.4  | 616.1  | 617.4  | 618.8  | 620.2  |
| 127.5° | 665.1  | 664.3  | 663.4  | 662.3  | 660.9  | 659.5  | 658.1  | 656.7  | 658.1  | 659.5  | 660.9  |
| 130°   | 702.2  | 701.5  | 700.8  | 699.8  | 698.4  | 697.0  | 695.6  | 694.2  | 695.6  | 697.0  | 698.4  |
| 132.5° | 737.8  | 737.2  | 736.7  | 735.8  | 734.4  | 733.0  | 731.6  | 730.2  | 731.6  | 733.0  | 734.4  |
| 135°   | 773.4  | 772.7  | 772.0  | 771.1  | 770.1  | 769.0  | 768.0  | 766.9  | 768.0  | 769.0  | 770.1  |
| 137.5° | 805.3  | 805.0  | 804.6  | 803.8  | 802.4  | 801.0  | 799.6  | 798.2  | 799.6  | 801.0  | 802.4  |
| 140°   | 835.5  | 835.0  | 834.4  | 833.7  | 832.6  | 831.6  | 830.5  | 829.5  | 830.5  | 831.6  | 832.6  |
| 142.5° | 864.4  | 863.9  | 863.4  | 862.6  | 861.5  | 860.5  | 859.5  | 858.4  | 859.5  | 860.5  | 861.5  |
| 145°   | 891.3  | 891.0  | 890.6  | 889.9  | 888.6  | 887.4  | 886.2  | 885.0  | 886.2  | 887.4  | 888.6  |
| 147.5° | 915.6  | 915.2  | 914.9  | 914.3  | 913.4  | 912.5  | 911.7  | 910.8  | 911.7  | 912.5  | 913.4  |
| 150°   | 937.5  | 937.1  | 936.8  | 936.3  | 935.8  | 935.3  | 934.8  | 934.2  | 934.8  | 935.3  | 935.8  |
| 152.5° | 956.6  | 956.4  | 956.2  | 956.0  | 955.9  | 955.7  | 955.5  | 955.4  | 955.5  | 955.7  | 955.9  |
| 155°   | 973.8  | 973.6  | 973.4  | 973.5  | 973.9  | 974.2  | 974.6  | 974.9  | 974.6  | 974.2  | 973.9  |
| 157.5° | 990.1  | 990.3  | 990.4  | 990.5  | 990.5  | 990.5  | 990.5  | 990.5  | 990.5  | 990.5  | 990.5  |
| 160°   | 1003.4 | 1003.6 | 1003.7 | 1003.9 | 1004.1 | 1004.3 | 1004.4 | 1004.6 | 1004.4 | 1004.3 | 1004.1 |
| 162.5° | 1015.1 | 1015.3 | 1015.5 | 1015.8 | 1016.3 | 1016.9 | 1017.4 | 1017.9 | 1017.4 | 1016.9 | 1016.3 |
| 165°   | 1025.3 | 1025.5 | 1025.6 | 1026.0 | 1026.5 | 1027.0 | 1027.5 | 1028.1 | 1027.5 | 1027.0 | 1026.5 |
| 167.5° | 1033.5 | 1033.5 | 1033.5 | 1033.9 | 1034.6 | 1035.3 | 1036.0 | 1036.7 | 1036.0 | 1035.3 | 1034.6 |
| 170°   | 1040.6 | 1040.6 | 1040.6 | 1040.9 | 1041.6 | 1042.3 | 1043.0 | 1043.7 | 1043.0 | 1042.3 | 1041.6 |
| 172.5° | 1044.9 | 1044.7 | 1044.6 | 1044.9 | 1045.8 | 1046.6 | 1047.5 | 1048.4 | 1047.5 | 1046.6 | 1045.8 |
| 175°   | 1048.8 | 1048.6 | 1048.5 | 1048.8 | 1049.7 | 1050.6 | 1051.4 | 1052.3 | 1051.4 | 1050.6 | 1049.7 |
| 177.5° | 1050.4 | 1050.2 | 1050.0 | 1050.4 | 1051.3 | 1052.1 | 1053.0 | 1053.9 | 1053.0 | 1052.1 | 1051.3 |
| 180°   | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 |



TEST NUMBER: P831876

CATALOG NUMBER: S123RDIP-S1000D805U835-4F0-1E-UDD-G

**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°    | 7.7    | 9.7    | 12.0   | 14.2   | 16.5   | 18.8   | 19.5   | 20.2   | 20.8   | 21.5   | 22.1   |
| 92.5°  | 13.8   | 14.1   | 15.6   | 17.2   | 18.8   | 20.3   | 21.5   | 22.8   | 24.0   | 25.2   | 25.9   |
| 95°    | 19.2   | 16.6   | 18.5   | 20.4   | 22.3   | 24.2   | 25.5   | 26.7   | 27.9   | 29.1   | 29.7   |
| 97.5°  | 67.3   | 60.5   | 51.6   | 42.7   | 33.9   | 25.0   | 26.4   | 27.8   | 29.2   | 30.6   | 31.4   |
| 100°   | 146.0  | 134.2  | 107.1  | 80.0   | 52.9   | 25.8   | 27.2   | 28.6   | 30.0   | 31.4   | 32.1   |
| 102.5° | 192.8  | 178.8  | 148.5  | 118.3  | 88.1   | 57.9   | 52.1   | 46.4   | 40.7   | 34.9   | 32.2   |
| 105°   | 240.6  | 233.8  | 218.1  | 202.5  | 186.8  | 171.2  | 140.5  | 109.7  | 79.0   | 48.2   | 33.0   |
| 107.5° | 291.6  | 293.7  | 296.3  | 298.9  | 301.5  | 304.1  | 277.4  | 250.6  | 223.9  | 197.1  | 172.3  |
| 110°   | 343.3  | 344.9  | 346.9  | 348.8  | 350.7  | 352.6  | 346.9  | 341.1  | 335.4  | 329.7  | 314.4  |



TEST NUMBER: P831876

CATALOG NUMBER: S123RDIP-S1000D805U835-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 392.6  | 394.2  | 396.1  | 398.0  | 399.9  | 401.8  | 403.4  | 405.0  | 406.5  | 408.1  | 408.7  |
| 115°   | 441.2  | 442.5  | 444.1  | 445.6  | 447.2  | 448.8  | 450.5  | 452.2  | 454.0  | 455.7  | 456.9  |
| 117.5° | 490.4  | 491.4  | 492.3  | 493.1  | 494.0  | 494.9  | 496.3  | 497.7  | 499.0  | 500.4  | 501.2  |
| 120°   | 536.3  | 537.4  | 537.9  | 538.4  | 538.9  | 539.4  | 540.8  | 542.2  | 543.6  | 545.0  | 545.7  |
| 122.5° | 580.3  | 581.2  | 581.9  | 582.6  | 583.3  | 584.0  | 584.9  | 585.7  | 586.6  | 587.5  | 588.0  |
| 125°   | 621.6  | 622.7  | 623.4  | 624.0  | 624.7  | 625.4  | 625.8  | 626.1  | 626.5  | 626.8  | 627.2  |
| 127.5° | 662.3  | 663.4  | 664.3  | 665.1  | 666.0  | 666.9  | 667.4  | 667.9  | 668.4  | 669.0  | 669.0  |
| 130°   | 699.8  | 700.8  | 701.5  | 702.2  | 702.9  | 703.6  | 704.3  | 705.0  | 705.7  | 706.4  | 706.6  |
| 132.5° | 735.8  | 736.7  | 737.2  | 737.8  | 738.3  | 738.8  | 739.5  | 740.2  | 740.9  | 741.6  | 741.7  |
| 135°   | 771.1  | 772.0  | 772.7  | 773.4  | 774.1  | 774.8  | 775.3  | 775.8  | 776.3  | 776.8  | 776.8  |
| 137.5° | 803.8  | 804.6  | 805.0  | 805.3  | 805.7  | 806.0  | 806.9  | 807.8  | 808.6  | 809.5  | 809.8  |
| 140°   | 833.7  | 834.4  | 835.0  | 835.5  | 836.0  | 836.5  | 837.2  | 837.9  | 838.6  | 839.3  | 839.5  |
| 142.5° | 862.6  | 863.4  | 863.9  | 864.4  | 864.9  | 865.4  | 866.0  | 866.5  | 867.0  | 867.5  | 867.5  |
| 145°   | 889.9  | 890.6  | 891.0  | 891.3  | 891.7  | 892.0  | 892.4  | 892.7  | 893.1  | 893.4  | 893.6  |
| 147.5° | 914.3  | 914.9  | 915.2  | 915.6  | 915.9  | 916.3  | 916.6  | 917.0  | 917.3  | 917.7  | 917.4  |
| 150°   | 936.3  | 936.8  | 937.1  | 937.5  | 937.8  | 938.2  | 938.5  | 938.8  | 939.2  | 939.5  | 939.5  |
| 152.5° | 956.0  | 956.2  | 956.4  | 956.6  | 956.7  | 956.9  | 957.6  | 958.3  | 959.0  | 959.7  | 959.6  |
| 155°   | 973.5  | 973.4  | 973.6  | 973.8  | 973.9  | 974.1  | 975.0  | 975.9  | 976.7  | 977.6  | 977.5  |
| 157.5° | 990.5  | 990.4  | 990.3  | 990.1  | 989.9  | 989.8  | 990.8  | 991.8  | 992.9  | 993.9  | 993.7  |
| 160°   | 1003.9 | 1003.7 | 1003.6 | 1003.4 | 1003.2 | 1003.0 | 1004.1 | 1005.1 | 1006.2 | 1007.2 | 1007.1 |
| 162.5° | 1015.8 | 1015.5 | 1015.3 | 1015.1 | 1014.9 | 1014.8 | 1016.0 | 1017.2 | 1018.4 | 1019.6 | 1019.7 |
| 165°   | 1026.0 | 1025.6 | 1025.5 | 1025.3 | 1025.1 | 1024.9 | 1026.3 | 1027.7 | 1029.1 | 1030.5 | 1030.6 |
| 167.5° | 1033.9 | 1033.5 | 1033.5 | 1033.5 | 1033.5 | 1033.5 | 1034.9 | 1036.3 | 1037.7 | 1039.1 | 1039.1 |
| 170°   | 1040.9 | 1040.6 | 1040.6 | 1040.6 | 1040.6 | 1040.6 | 1042.0 | 1043.3 | 1044.7 | 1046.1 | 1046.1 |
| 172.5° | 1044.9 | 1044.6 | 1044.7 | 1044.9 | 1045.1 | 1045.3 | 1046.6 | 1048.0 | 1049.4 | 1050.8 | 1050.7 |
| 175°   | 1048.8 | 1048.5 | 1048.6 | 1048.8 | 1049.0 | 1049.2 | 1050.4 | 1051.6 | 1052.8 | 1054.0 | 1053.9 |
| 177.5° | 1050.4 | 1050.0 | 1050.2 | 1050.4 | 1050.6 | 1050.7 | 1052.1 | 1053.5 | 1054.9 | 1056.3 | 1056.1 |
| 180°   | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 | 1052.3 |



TEST NUMBER: P831876

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**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°    | 22.4   | 22.8   | 23.1   | 23.5   |
| 92.5°  | 26.1   | 26.2   | 26.4   | 26.6   |
| 95°    | 29.7   | 29.7   | 29.7   | 29.7   |
| 97.5°  | 31.5   | 31.7   | 31.9   | 32.1   |
| 100°   | 32.3   | 32.5   | 32.7   | 32.8   |
| 102.5° | 32.6   | 32.9   | 33.3   | 33.6   |
| 105°   | 33.4   | 33.7   | 34.1   | 34.4   |
| 107.5° | 149.6  | 126.8  | 104.1  | 81.3   |
| 110°   | 289.5  | 264.7  | 239.8  | 215.0  |



TEST NUMBER: P831876

CATALOG NUMBER: S123RDIP-S1000D805U835-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 408.4  | 408.0  | 407.7  | 407.3  |
| 115°   | 457.6  | 458.3  | 459.0  | 459.7  |
| 117.5° | 501.4  | 501.6  | 501.7  | 501.9  |
| 120°   | 545.7  | 545.7  | 545.7  | 545.7  |
| 122.5° | 588.2  | 588.3  | 588.5  | 588.7  |
| 125°   | 627.5  | 627.9  | 628.2  | 628.6  |
| 127.5° | 668.7  | 668.3  | 668.0  | 667.7  |
| 130°   | 706.2  | 705.9  | 705.5  | 705.2  |
| 132.5° | 741.1  | 740.6  | 740.1  | 739.6  |
| 135°   | 776.3  | 775.8  | 775.3  | 774.8  |
| 137.5° | 809.4  | 809.1  | 808.7  | 808.4  |
| 140°   | 839.1  | 838.8  | 838.4  | 838.1  |
| 142.5° | 867.0  | 866.5  | 866.0  | 865.4  |
| 145°   | 893.6  | 893.6  | 893.6  | 893.6  |
| 147.5° | 916.5  | 915.7  | 914.8  | 913.9  |
| 150°   | 938.9  | 938.4  | 937.9  | 937.4  |
| 152.5° | 958.7  | 957.9  | 957.0  | 956.1  |
| 155°   | 976.5  | 975.4  | 974.4  | 973.3  |
| 157.5° | 992.4  | 991.0  | 989.6  | 988.2  |
| 160°   | 1005.9 | 1004.7 | 1003.5 | 1002.3 |
| 162.5° | 1018.7 | 1017.6 | 1016.6 | 1015.6 |
| 165°   | 1029.4 | 1028.1 | 1026.9 | 1025.7 |
| 167.5° | 1037.7 | 1036.3 | 1034.9 | 1033.5 |
| 170°   | 1044.7 | 1043.3 | 1042.0 | 1040.6 |
| 172.5° | 1049.2 | 1047.6 | 1046.0 | 1044.5 |
| 175°   | 1052.6 | 1051.2 | 1049.8 | 1048.4 |
| 177.5° | 1054.4 | 1052.6 | 1050.9 | 1049.2 |
| 180°   | 1052.3 | 1052.3 | 1052.3 | 1052.3 |



TEST NUMBER: P831876

CATALOG NUMBER: S123RDIP-S1000D805U835-4F0-1E-UDD-G

**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 | 13.75            | 14.62 | 14.66 | 15.53 | 16.70 | 18.42          | 19.28 | 19.32 | 20.20 | 21.37 |
|                 | 3H   | 14.98            | 15.75 | 15.89 | 16.67 | 17.87 | 19.92          | 20.69 | 20.84 | 21.62 | 22.81 |
|                 | 4H   | 15.36            | 16.09 | 16.29 | 17.02 | 18.22 | 20.41          | 21.14 | 21.34 | 22.07 | 23.27 |
|                 | 6H   | 15.64            | 16.32 | 16.59 | 17.25 | 18.47 | 20.72          | 21.40 | 21.67 | 22.33 | 23.55 |
|                 | 8H   | 15.73            | 16.37 | 16.68 | 17.32 | 18.54 | 20.80          | 21.44 | 21.75 | 22.39 | 23.61 |
|                 | 12H  | 15.78            | 16.39 | 16.74 | 17.34 | 18.58 | 20.84          | 21.44 | 21.79 | 22.39 | 23.63 |
| 4H              | 2H   | 14.48            | 15.21 | 15.42 | 16.14 | 17.34 | 18.42          | 19.15 | 19.35 | 20.08 | 21.28 |
|                 | 3H   | 15.85            | 16.46 | 16.80 | 17.42 | 18.63 | 20.08          | 20.68 | 21.02 | 21.64 | 22.86 |
|                 | 4H   | 16.31            | 16.86 | 17.26 | 17.82 | 19.06 | 20.69          | 21.24 | 21.64 | 22.19 | 23.43 |
|                 | 6H   | 16.68            | 17.15 | 17.65 | 18.13 | 19.37 | 21.12          | 21.60 | 22.09 | 22.58 | 23.82 |
|                 | 8H   | 16.80            | 17.25 | 17.77 | 18.22 | 19.47 | 21.26          | 21.70 | 22.23 | 22.67 | 23.93 |
|                 | 12H  | 16.88            | 17.28 | 17.87 | 18.27 | 19.53 | 21.32          | 21.72 | 22.31 | 22.71 | 23.97 |
| 8H              | 4H   | 16.63            | 17.07 | 17.60 | 18.04 | 19.29 | 20.65          | 21.10 | 21.62 | 22.07 | 23.32 |
|                 | 6H   | 17.09            | 17.46 | 18.09 | 18.47 | 19.72 | 21.15          | 21.52 | 22.15 | 22.53 | 23.78 |
|                 | 8H   | 17.28            | 17.61 | 18.29 | 18.61 | 19.88 | 21.34          | 21.66 | 22.34 | 22.66 | 23.93 |
|                 | 12H  | 17.43            | 17.71 | 18.43 | 18.70 | 20.02 | 21.46          | 21.74 | 22.46 | 22.73 | 24.05 |
| 12H             | 4H   | 16.64            | 17.04 | 17.63 | 18.03 | 19.29 | 20.61          | 21.01 | 21.59 | 21.99 | 23.25 |
|                 | 6H   | 17.15            | 17.47 | 18.15 | 18.47 | 19.75 | 21.13          | 21.45 | 22.13 | 22.45 | 23.72 |
|                 | 8H   | 17.37            | 17.65 | 18.38 | 18.65 | 19.97 | 21.32          | 21.60 | 22.33 | 22.60 | 23.92 |