

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: P831883

Luminaire Tested: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831883
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-S1000D805U850-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

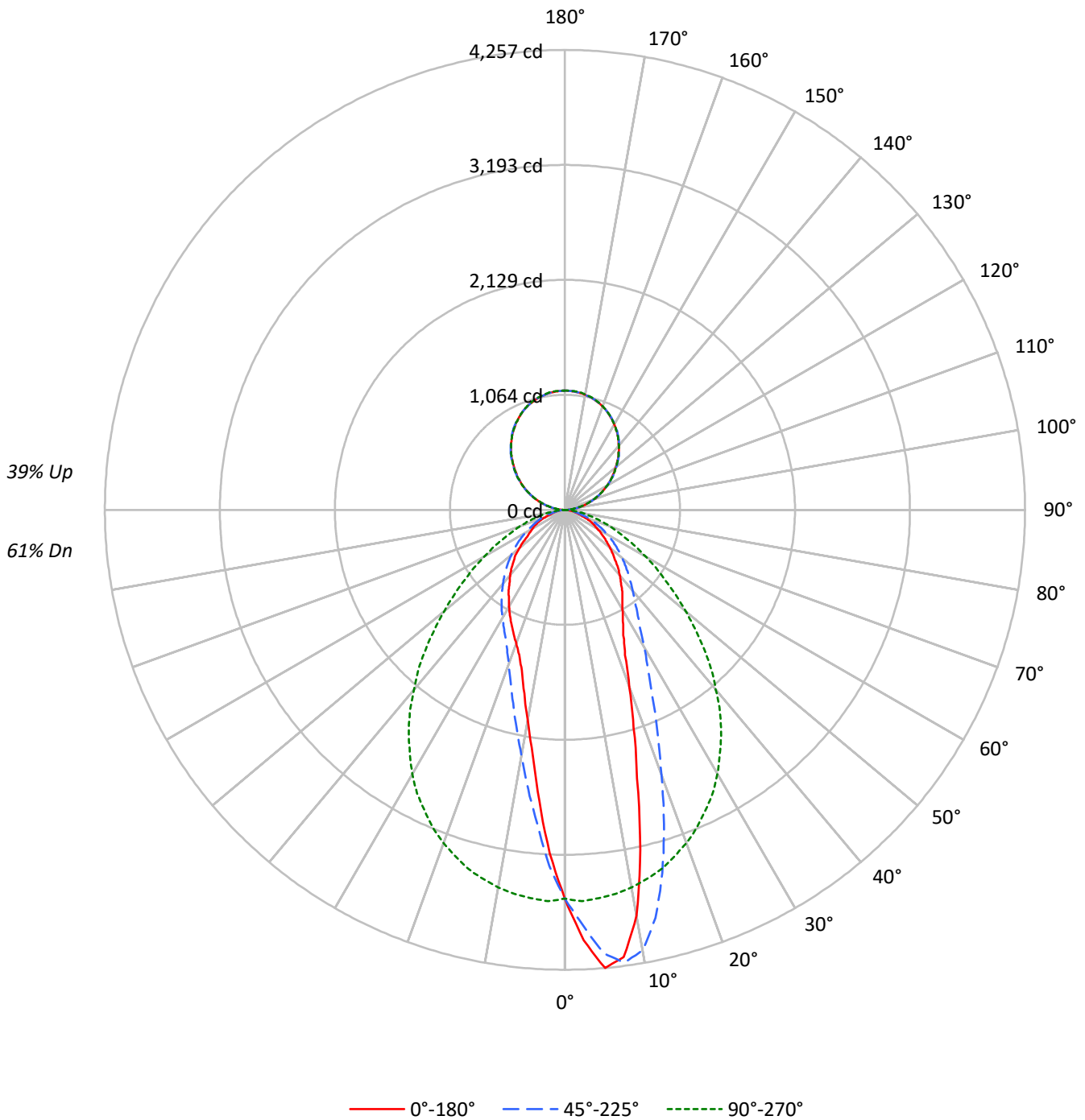
Lumens per Lamp: N/A
Luminaire Lumens: 7832.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 61 | | | | | | | | | | | | | | | | |
| 1 | 101 | 97 | 94 | 90 | 95 | 91 | 88 | 85 | 80 | 78 | 75 | 70 | 68 | 66 | 60 | 59 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 53 | | | | | | | | | | | | | | | | |
| 2 | 93 | 86 | 80 | 76 | 87 | 81 | 76 | 72 | 71 | 67 | 64 | 62 | 60 | 57 | 54 | 52 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 46 | | | | | | | | | | | | | | | | |
| 3 | 86 | 77 | 70 | 64 | 80 | 72 | 66 | 61 | 64 | 59 | 55 | 56 | 53 | 50 | 49 | 46 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 41 | | | | | | | | | | | | | | | | |
| 4 | 79 | 69 | 61 | 56 | 74 | 65 | 58 | 53 | 58 | 52 | 48 | 51 | 47 | 44 | 45 | 42 | 39 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | | | | | | | | | | | | |
| 5 | 73 | 62 | 54 | 49 | 68 | 59 | 52 | 47 | 52 | 47 | 43 | 46 | 42 | 39 | 41 | 38 | 35 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | | | | | | | | | | | | | | | |
| 6 | 68 | 56 | 49 | 43 | 63 | 53 | 46 | 41 | 48 | 42 | 38 | 42 | 38 | 35 | 38 | 34 | 31 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | | | | | | | | | | | | | | | |
| 7 | 63 | 51 | 44 | 38 | 59 | 49 | 42 | 37 | 44 | 38 | 34 | 39 | 35 | 31 | 35 | 31 | 29 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | | | | | | | | | | | | | | | |
| 8 | 59 | 47 | 40 | 35 | 55 | 45 | 38 | 33 | 40 | 35 | 31 | 36 | 32 | 28 | 32 | 29 | 26 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | | | | | | | | | | | | | | | | |
| 9 | 55 | 43 | 36 | 31 | 52 | 41 | 35 | 30 | 37 | 32 | 28 | 34 | 29 | 26 | 30 | 27 | 24 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | | | | | | | | | | | | | | | |
| 10 | 52 | 40 | 33 | 29 | 49 | 38 | 32 | 28 | 35 | 30 | 26 | 31 | 27 | 24 | 28 | 25 | 22 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 38736 | 38736 | 38736 | 38736 | 38736 |
| 5° | 45995 | 44529 | 38980 | 31511 | 29255 |
| 10° | 41673 | 45228 | 38786 | 25247 | 21659 |
| 15° | 28691 | 38780 | 38376 | 20635 | 17133 |
| 20° | 19961 | 29857 | 37606 | 17400 | 15060 |
| 25° | 15210 | 22755 | 36485 | 15465 | 13879 |
| 30° | 13241 | 18192 | 35082 | 14359 | 12855 |
| 35° | 12156 | 15347 | 33097 | 13427 | 11924 |
| 40° | 11092 | 13704 | 30498 | 12513 | 11071 |
| 45° | 10018 | 12533 | 27694 | 11645 | 10219 |
| 50° | 9093 | 11563 | 24387 | 10798 | 9167 |
| 55° | 8223 | 10620 | 21210 | 9969 | 7863 |
| 60° | 7369 | 9655 | 18424 | 9052 | 7434 |
| 65° | 6803 | 8568 | 15860 | 8135 | 7027 |
| 70° | 5526 | 7405 | 13838 | 7361 | 5712 |
| 75° | 4849 | 5889 | 11720 | 6105 | 5032 |
| 80° | 4389 | 4984 | 9602 | 5120 | 4754 |
| 85° | 4014 | 4372 | 7287 | 4644 | 4372 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 29221 cd/sqm



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 328.0 | 4.2 |
| 10°-20° | 759.0 | 9.7 |
| 20°-30° | 870.9 | 11.1 |
| 30°-40° | 858.4 | 11.0 |
| 40°-50° | 757.0 | 9.7 |
| 50°-60° | 582.4 | 7.4 |
| 60°-70° | 382.9 | 4.9 |
| 70°-80° | 185.9 | 2.4 |
| 80°-90° | 49.2 | 0.6 |
| 90°-100° | 71.0 | 0.9 |
| 100°-110° | 215.1 | 2.7 |
| 110°-120° | 366.1 | 4.7 |
| 120°-130° | 481.6 | 6.1 |
| 130°-140° | 541.4 | 6.9 |
| 140°-150° | 532.2 | 6.8 |
| 150°-160° | 448.1 | 5.7 |
| 160°-170° | 298.3 | 3.8 |
| 170°-180° | 104.5 | 1.3 |
| 0°-30° | 1957.9 | 25.0 |
| 0°-40° | 2816.3 | 36.0 |
| 0°-60° | 4155.7 | 53.1 |
| 0°-90° | 4773.7 | 61.0 |
| 90°-120° | 652.2 | 8.3 |
| 90°-150° | 2207.5 | 28.2 |
| 90°-180° | 3058.0 | 39.0 |
| 0°-180° | 7832.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 3599 | 3599 | 3599 | 3599 | 3599 | |
| 5° | 4257 | 4121 | 3608 | 2916 | 2708 | 389 |
| 15° | 2575 | 3480 | 3444 | 1852 | 1538 | 727 |
| 25° | 1281 | 1916 | 3072 | 1302 | 1169 | 605 |
| 35° | 925 | 1168 | 2519 | 1022 | 907 | 577 |
| 45° | 658 | 823 | 1819 | 765 | 671 | 511 |
| 55° | 438 | 566 | 1130 | 531 | 419 | 393 |
| 65° | 267 | 336 | 623 | 319 | 276 | 262 |
| 75° | 117 | 142 | 282 | 147 | 121 | 125 |
| 85° | 32 | 35 | 59 | 38 | 35 | 35 |
| 90° | 26 | 21 | 1 | 21 | 26 | 14 |
| 95° | 68 | 64 | 51 | 64 | 68 | 68 |
| 105° | 206 | 205 | 195 | 205 | 206 | 219 |
| 115° | 369 | 369 | 368 | 369 | 369 | 366 |
| 125° | 533 | 540 | 539 | 540 | 533 | 477 |
| 135° | 699 | 704 | 700 | 704 | 699 | 538 |
| 145° | 849 | 853 | 849 | 853 | 849 | 530 |
| 155° | 970 | 973 | 972 | 973 | 970 | 447 |
| 165° | 1055 | 1056 | 1059 | 1056 | 1055 | 298 |
| 175° | 1097 | 1098 | 1101 | 1098 | 1097 | 104 |
| 180° | 1104 | 1104 | 1104 | 1104 | 1104 | |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 |
| 2.5° | 3988.3 | 3975.7 | 3963.2 | 3959.5 | 3955.8 | 3944.0 | 3932.2 | 3905.6 | 3879.1 | 3851.8 | 3824.5 |
| 5° | 4256.8 | 4258.3 | 4259.7 | 4256.1 | 4252.4 | 4236.9 | 4221.4 | 4188.9 | 4156.5 | 4121.1 | 4085.6 |
| 7.5° | 4174.2 | 4197.8 | 4221.4 | 4225.8 | 4230.2 | 4242.0 | 4253.8 | 4246.5 | 4239.1 | 4225.8 | 4212.5 |
| 10° | 3812.7 | 3811.2 | 3809.7 | 3836.3 | 3862.8 | 3941.8 | 4020.7 | 4061.3 | 4101.9 | 4138.0 | 4174.2 |
| 12.5° | 3222.5 | 3224.7 | 3226.9 | 3314.0 | 3401.0 | 3475.5 | 3550.0 | 3653.3 | 3756.6 | 3868.0 | 3979.4 |
| 15° | 2574.7 | 2610.9 | 2647.0 | 2724.5 | 2802.0 | 2914.1 | 3026.2 | 3164.9 | 3303.6 | 3480.0 | 3656.3 |
| 17.5° | 2114.4 | 2129.9 | 2145.4 | 2219.9 | 2294.4 | 2400.6 | 2506.9 | 2664.0 | 2821.1 | 3048.4 | 3275.6 |
| 20° | 1742.6 | 1756.6 | 1770.6 | 1824.4 | 1878.3 | 1980.1 | 2081.9 | 2231.7 | 2381.4 | 2606.5 | 2831.5 |
| 22.5° | 1454.8 | 1482.1 | 1509.4 | 1545.6 | 1581.7 | 1655.5 | 1729.3 | 1882.0 | 2034.7 | 2239.8 | 2444.9 |
| 25° | 1280.7 | 1293.3 | 1305.8 | 1336.8 | 1367.8 | 1438.6 | 1509.4 | 1610.5 | 1711.6 | 1915.9 | 2120.3 |
| 27.5° | 1162.7 | 1166.4 | 1170.1 | 1192.9 | 1215.8 | 1261.5 | 1307.3 | 1401.0 | 1494.7 | 1662.9 | 1831.1 |
| 30° | 1065.3 | 1071.9 | 1078.6 | 1096.3 | 1114.0 | 1147.2 | 1180.4 | 1246.8 | 1313.2 | 1463.7 | 1614.2 |
| 32.5° | 990.1 | 993.7 | 997.4 | 1012.2 | 1026.9 | 1051.3 | 1075.6 | 1128.0 | 1180.4 | 1295.5 | 1410.6 |
| 35° | 925.1 | 925.9 | 926.6 | 937.7 | 948.7 | 972.4 | 996.0 | 1039.5 | 1083.0 | 1167.9 | 1252.7 |
| 37.5° | 851.4 | 856.5 | 861.7 | 869.8 | 877.9 | 898.6 | 919.2 | 954.6 | 990.1 | 1060.1 | 1130.2 |
| 40° | 789.4 | 793.8 | 798.2 | 807.8 | 817.4 | 833.7 | 849.9 | 882.3 | 914.8 | 975.3 | 1035.8 |
| 42.5° | 727.4 | 730.4 | 733.3 | 742.9 | 752.5 | 772.4 | 792.3 | 818.2 | 844.0 | 894.1 | 944.3 |
| 45° | 658.1 | 665.4 | 672.8 | 683.2 | 693.5 | 710.4 | 727.4 | 754.0 | 780.5 | 823.3 | 866.1 |
| 47.5° | 600.5 | 604.2 | 607.9 | 616.8 | 625.6 | 646.3 | 666.9 | 690.5 | 714.1 | 754.0 | 793.8 |
| 50° | 543.0 | 544.5 | 545.9 | 554.0 | 562.2 | 580.6 | 599.1 | 626.3 | 653.6 | 690.5 | 727.4 |
| 52.5° | 488.4 | 492.1 | 495.8 | 503.9 | 512.0 | 524.5 | 537.1 | 565.1 | 593.1 | 629.3 | 665.4 |
| 55° | 438.2 | 440.4 | 442.6 | 448.5 | 454.5 | 469.2 | 484.0 | 508.3 | 532.7 | 565.9 | 599.1 |
| 57.5° | 391.0 | 394.0 | 396.9 | 401.3 | 405.8 | 419.0 | 432.3 | 453.7 | 475.1 | 508.3 | 541.5 |
| 60° | 342.3 | 346.0 | 349.7 | 354.9 | 360.0 | 370.3 | 380.7 | 399.9 | 419.0 | 448.5 | 478.1 |
| 62.5° | 306.9 | 307.6 | 308.4 | 312.8 | 317.2 | 324.6 | 332.0 | 347.5 | 363.0 | 392.5 | 422.0 |
| 65° | 267.1 | 269.3 | 271.5 | 273.7 | 275.9 | 281.8 | 287.7 | 301.0 | 314.3 | 336.4 | 358.5 |
| 67.5° | 225.8 | 228.0 | 230.2 | 233.9 | 237.6 | 242.7 | 247.9 | 256.7 | 265.6 | 286.2 | 306.9 |
| 70° | 175.6 | 175.6 | 175.6 | 181.5 | 187.4 | 196.2 | 205.1 | 211.7 | 218.4 | 235.3 | 252.3 |
| 72.5° | 143.1 | 143.9 | 144.6 | 145.3 | 146.1 | 151.2 | 156.4 | 167.5 | 178.5 | 188.9 | 199.2 |
| 75° | 116.6 | 117.3 | 118.0 | 118.8 | 119.5 | 121.0 | 122.5 | 126.2 | 129.8 | 141.6 | 153.5 |
| 77.5° | 93.0 | 93.7 | 94.4 | 95.2 | 95.9 | 97.4 | 98.9 | 100.3 | 101.8 | 106.2 | 110.7 |
| 80° | 70.8 | 71.6 | 72.3 | 73.0 | 73.8 | 74.5 | 75.3 | 76.7 | 78.2 | 80.4 | 82.6 |
| 82.5° | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 53.1 | 54.6 | 54.6 | 54.6 | 56.1 | 57.5 |
| 85° | 32.5 | 32.5 | 32.5 | 33.2 | 33.9 | 33.9 | 33.9 | 34.7 | 35.4 | 35.4 | 35.4 |
| 87.5° | 14.8 | 14.0 | 13.3 | 14.0 | 14.8 | 14.8 | 14.8 | 15.5 | 16.2 | 16.2 | 16.2 |
| 90° | 26.0 | 25.6 | 25.2 | 24.9 | 24.5 | 23.9 | 23.1 | 22.4 | 21.6 | 20.8 | 18.3 |
| 92.5° | 37.3 | 37.7 | 38.1 | 38.4 | 38.8 | 38.7 | 38.2 | 37.6 | 37.0 | 36.4 | 35.3 |
| 95° | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.2 | 66.5 | 65.7 | 64.9 | 64.2 | 62.6 |
| 97.5° | 97.1 | 97.3 | 97.5 | 97.7 | 97.9 | 97.5 | 96.5 | 95.6 | 94.6 | 93.6 | 92.5 |
| 100° | 131.8 | 131.4 | 131.0 | 130.6 | 130.3 | 129.8 | 129.2 | 128.6 | 128.0 | 127.5 | 126.5 |
| 102.5° | 167.3 | 167.5 | 167.7 | 167.9 | 168.1 | 167.9 | 167.3 | 166.8 | 166.2 | 165.6 | 164.3 |
| 105° | 206.4 | 206.0 | 205.6 | 205.2 | 204.8 | 204.6 | 204.6 | 204.6 | 204.6 | 204.6 | 202.9 |
| 107.5° | 246.2 | 246.4 | 246.6 | 246.8 | 247.0 | 246.8 | 246.2 | 245.7 | 245.1 | 244.5 | 243.7 |
| 110° | 287.0 | 287.4 | 287.8 | 288.2 | 288.5 | 288.3 | 287.6 | 286.8 | 286.0 | 285.3 | 284.9 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 330.4 | 330.4 | 330.4 | 330.4 | 330.4 | 329.9 | 328.9 | 327.9 | 327.0 | 326.0 | 326.0 |
| 115° | 369.4 | 369.6 | 369.8 | 369.9 | 370.1 | 370.1 | 369.9 | 369.8 | 369.6 | 369.4 | 369.8 |
| 117.5° | 409.3 | 409.8 | 410.4 | 411.0 | 411.6 | 411.9 | 411.9 | 411.9 | 411.9 | 411.9 | 412.2 |
| 120° | 451.7 | 452.1 | 452.5 | 452.9 | 453.3 | 453.6 | 453.8 | 454.0 | 454.1 | 454.3 | 455.3 |
| 122.5° | 492.5 | 493.1 | 493.6 | 494.2 | 494.8 | 495.4 | 496.0 | 496.5 | 497.1 | 497.7 | 498.1 |
| 125° | 533.2 | 534.0 | 534.8 | 535.6 | 536.3 | 537.1 | 537.9 | 538.6 | 539.4 | 540.2 | 540.6 |
| 127.5° | 574.0 | 574.8 | 575.5 | 576.3 | 577.1 | 578.0 | 579.2 | 580.4 | 581.5 | 582.7 | 583.1 |
| 130° | 613.9 | 615.2 | 616.6 | 617.9 | 619.3 | 620.3 | 621.1 | 621.9 | 622.6 | 623.4 | 624.0 |
| 132.5° | 655.5 | 656.5 | 657.4 | 658.4 | 659.4 | 660.3 | 661.3 | 662.2 | 663.2 | 664.2 | 664.6 |
| 135° | 698.9 | 699.2 | 699.6 | 700.0 | 700.4 | 701.0 | 701.7 | 702.5 | 703.3 | 704.1 | 704.2 |
| 137.5° | 737.0 | 737.6 | 738.2 | 738.7 | 739.3 | 740.1 | 741.1 | 742.0 | 743.0 | 743.9 | 743.4 |
| 140° | 774.3 | 775.6 | 777.0 | 778.3 | 779.7 | 780.5 | 780.6 | 780.8 | 781.0 | 781.2 | 781.0 |
| 142.5° | 812.4 | 813.4 | 814.4 | 815.3 | 816.3 | 816.9 | 817.1 | 817.3 | 817.4 | 817.6 | 817.3 |
| 145° | 848.9 | 849.6 | 850.4 | 851.2 | 851.9 | 852.4 | 852.6 | 852.8 | 853.0 | 853.2 | 852.6 |
| 147.5° | 881.8 | 883.0 | 884.1 | 885.3 | 886.4 | 887.0 | 887.0 | 887.0 | 887.0 | 887.0 | 886.4 |
| 150° | 913.0 | 914.2 | 915.3 | 916.5 | 917.6 | 918.2 | 918.2 | 918.2 | 918.2 | 918.2 | 917.8 |
| 152.5° | 943.4 | 944.3 | 945.3 | 946.3 | 947.2 | 947.5 | 947.1 | 946.7 | 946.4 | 946.0 | 945.8 |
| 155° | 970.2 | 971.6 | 972.9 | 974.3 | 975.6 | 975.9 | 975.2 | 974.4 | 973.6 | 972.8 | 972.7 |
| 157.5° | 995.4 | 996.5 | 997.7 | 998.9 | 1000.0 | 1000.2 | 999.4 | 998.7 | 997.9 | 997.1 | 996.9 |
| 160° | 1019.7 | 1020.4 | 1021.2 | 1022.0 | 1022.7 | 1022.7 | 1021.7 | 1020.7 | 1019.8 | 1018.8 | 1018.8 |
| 162.5° | 1037.9 | 1039.2 | 1040.6 | 1041.9 | 1043.3 | 1043.5 | 1042.5 | 1041.5 | 1040.6 | 1039.6 | 1039.4 |
| 165° | 1055.2 | 1056.6 | 1057.9 | 1059.3 | 1060.6 | 1060.7 | 1059.6 | 1058.4 | 1057.2 | 1056.1 | 1056.1 |
| 167.5° | 1070.8 | 1072.0 | 1073.1 | 1074.3 | 1075.4 | 1075.4 | 1074.3 | 1073.1 | 1072.0 | 1070.8 | 1070.6 |
| 170° | 1082.1 | 1083.4 | 1084.8 | 1086.1 | 1087.5 | 1087.5 | 1086.1 | 1084.8 | 1083.4 | 1082.1 | 1082.1 |
| 172.5° | 1090.8 | 1092.1 | 1093.5 | 1094.8 | 1096.2 | 1096.3 | 1095.1 | 1093.9 | 1092.8 | 1091.6 | 1091.6 |
| 175° | 1096.8 | 1098.2 | 1099.5 | 1100.9 | 1102.2 | 1102.3 | 1101.2 | 1100.0 | 1098.9 | 1097.7 | 1097.7 |
| 177.5° | 1100.3 | 1101.7 | 1103.0 | 1104.3 | 1105.7 | 1105.8 | 1104.6 | 1103.5 | 1102.3 | 1101.2 | 1101.2 |
| 180° | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 |
| 2.5° | 3820.8 | 3817.1 | 3781.7 | 3746.3 | 3711.6 | 3676.9 | 3651.1 | 3625.3 | 3581.8 | 3538.2 | 3510.9 |
| 5° | 4057.6 | 4029.6 | 3973.5 | 3917.4 | 3833.3 | 3749.2 | 3678.4 | 3607.6 | 3517.6 | 3427.6 | 3352.3 |
| 7.5° | 4189.7 | 4166.8 | 4098.9 | 4031.0 | 3919.6 | 3808.2 | 3697.6 | 3586.9 | 3454.1 | 3321.3 | 3207.7 |
| 10° | 4193.4 | 4212.5 | 4156.5 | 4100.4 | 3975.0 | 3849.6 | 3699.1 | 3548.6 | 3370.0 | 3191.5 | 3044.7 |
| 12.5° | 4062.0 | 4144.7 | 4132.9 | 4121.1 | 3993.4 | 3865.8 | 3682.8 | 3499.9 | 3280.8 | 3061.6 | 2877.9 |
| 15° | 3816.4 | 3976.5 | 4023.7 | 4070.9 | 3965.4 | 3859.9 | 3651.8 | 3443.8 | 3186.3 | 2928.9 | 2717.9 |
| 17.5° | 3499.9 | 3724.1 | 3848.8 | 3973.5 | 3896.8 | 3820.1 | 3592.1 | 3364.1 | 3074.2 | 2784.3 | 2554.8 |
| 20° | 3125.1 | 3418.7 | 3614.2 | 3809.7 | 3781.7 | 3753.7 | 3518.3 | 3283.0 | 2970.2 | 2657.4 | 2408.7 |
| 22.5° | 2754.7 | 3064.6 | 3334.6 | 3604.6 | 3633.4 | 3662.2 | 3424.6 | 3187.1 | 2844.8 | 2502.4 | 2249.4 |
| 25° | 2435.3 | 2750.3 | 3072.0 | 3393.6 | 3458.6 | 3523.5 | 3297.7 | 3072.0 | 2717.1 | 2362.3 | 2110.7 |
| 27.5° | 2130.6 | 2430.1 | 2784.3 | 3138.4 | 3256.4 | 3374.5 | 3167.9 | 2961.3 | 2591.7 | 2222.1 | 1971.3 |
| 30° | 1882.0 | 2149.8 | 2511.3 | 2872.8 | 3037.3 | 3201.8 | 3012.2 | 2822.6 | 2456.0 | 2089.3 | 1843.6 |
| 32.5° | 1650.3 | 1890.1 | 2253.1 | 2616.0 | 2807.1 | 2998.2 | 2834.4 | 2670.6 | 2318.0 | 1965.4 | 1722.6 |
| 35° | 1467.4 | 1682.1 | 2020.7 | 2359.3 | 2573.3 | 2787.2 | 2652.9 | 2518.7 | 2174.1 | 1829.6 | 1600.2 |
| 37.5° | 1310.2 | 1490.2 | 1808.2 | 2126.2 | 2353.4 | 2580.6 | 2468.5 | 2356.4 | 2032.5 | 1708.6 | 1491.7 |
| 40° | 1180.4 | 1325.0 | 1620.8 | 1916.7 | 2139.5 | 2362.3 | 2266.4 | 2170.5 | 1880.5 | 1590.6 | 1387.7 |
| 42.5° | 1069.0 | 1193.7 | 1459.3 | 1724.9 | 1929.2 | 2133.6 | 2070.1 | 2006.7 | 1744.0 | 1481.4 | 1293.3 |
| 45° | 970.9 | 1075.6 | 1309.5 | 1543.4 | 1731.5 | 1919.6 | 1869.4 | 1819.3 | 1592.8 | 1366.3 | 1193.7 |
| 47.5° | 883.8 | 973.8 | 1182.6 | 1391.4 | 1560.3 | 1729.3 | 1682.8 | 1636.3 | 1448.9 | 1261.5 | 1104.4 |
| 50° | 804.1 | 880.9 | 1055.0 | 1229.1 | 1381.1 | 1533.0 | 1494.7 | 1456.3 | 1301.4 | 1146.5 | 1010.7 |
| 52.5° | 728.9 | 792.3 | 948.7 | 1105.1 | 1227.6 | 1350.1 | 1320.6 | 1291.1 | 1171.5 | 1052.0 | 928.8 |
| 55° | 657.3 | 715.6 | 847.7 | 979.7 | 1084.5 | 1189.2 | 1159.7 | 1130.2 | 1037.3 | 944.3 | 835.9 |
| 57.5° | 592.4 | 643.3 | 750.3 | 857.3 | 940.6 | 1024.0 | 1010.0 | 996.0 | 918.5 | 841.0 | 751.8 |
| 60° | 523.8 | 569.5 | 661.8 | 754.0 | 821.1 | 888.2 | 872.0 | 855.8 | 800.5 | 745.1 | 668.4 |
| 62.5° | 462.6 | 503.1 | 576.9 | 650.7 | 705.3 | 759.9 | 748.1 | 736.3 | 694.2 | 652.2 | 588.7 |
| 65° | 398.4 | 438.2 | 498.0 | 557.7 | 600.5 | 643.3 | 633.0 | 622.7 | 590.9 | 559.2 | 508.3 |
| 67.5° | 340.1 | 373.3 | 424.9 | 476.6 | 505.4 | 534.1 | 528.2 | 522.3 | 498.0 | 473.6 | 433.8 |
| 70° | 281.1 | 309.9 | 352.6 | 395.4 | 415.4 | 435.3 | 437.5 | 439.7 | 417.6 | 395.4 | 365.9 |
| 72.5° | 222.1 | 244.9 | 284.8 | 324.6 | 340.1 | 355.6 | 354.9 | 354.1 | 340.8 | 327.6 | 301.0 |
| 75° | 170.4 | 187.4 | 218.4 | 249.4 | 262.6 | 275.9 | 278.9 | 281.8 | 269.3 | 256.7 | 242.0 |
| 77.5° | 122.5 | 134.3 | 157.9 | 181.5 | 196.2 | 211.0 | 212.5 | 213.9 | 208.0 | 202.1 | 188.1 |
| 80° | 86.3 | 90.0 | 104.8 | 119.5 | 135.0 | 150.5 | 152.7 | 154.9 | 149.0 | 143.1 | 134.3 |
| 82.5° | 59.8 | 62.0 | 67.1 | 72.3 | 84.8 | 97.4 | 100.3 | 103.3 | 100.3 | 97.4 | 87.8 |
| 85° | 36.1 | 36.9 | 39.1 | 41.3 | 47.2 | 53.1 | 56.1 | 59.0 | 57.5 | 56.1 | 50.9 |
| 87.5° | 16.2 | 16.2 | 17.0 | 17.7 | 19.2 | 20.7 | 24.3 | 28.0 | 25.8 | 23.6 | 21.4 |
| 90° | 15.8 | 13.3 | 10.8 | 8.6 | 6.6 | 4.7 | 2.8 | 0.9 | 2.8 | 4.7 | 6.6 |
| 92.5° | 34.1 | 32.9 | 31.8 | 30.6 | 29.5 | 28.3 | 27.2 | 26.0 | 27.2 | 28.3 | 29.5 |
| 95° | 61.1 | 59.5 | 58.0 | 56.6 | 55.2 | 53.9 | 52.5 | 51.2 | 52.5 | 53.9 | 55.2 |
| 97.5° | 91.3 | 90.2 | 89.0 | 88.0 | 87.0 | 86.0 | 85.1 | 84.1 | 85.1 | 86.0 | 87.0 |
| 100° | 125.5 | 124.6 | 123.6 | 122.5 | 121.4 | 120.2 | 119.1 | 117.9 | 119.1 | 120.2 | 121.4 |
| 102.5° | 162.9 | 161.6 | 160.2 | 159.3 | 158.7 | 158.1 | 157.5 | 156.9 | 157.5 | 158.1 | 158.7 |
| 105° | 201.2 | 199.4 | 197.7 | 196.6 | 196.2 | 195.9 | 195.5 | 195.1 | 195.5 | 195.9 | 196.2 |
| 107.5° | 243.0 | 242.2 | 241.4 | 240.9 | 240.8 | 240.6 | 240.4 | 240.2 | 240.4 | 240.6 | 240.8 |
| 110° | 284.5 | 284.1 | 283.7 | 283.3 | 283.0 | 282.6 | 282.2 | 281.8 | 282.2 | 282.6 | 283.0 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 326.0 | 326.0 | 326.0 | 325.9 | 325.7 | 325.5 | 325.3 | 325.1 | 325.3 | 325.5 | 325.7 |
| 115° | 370.1 | 370.5 | 370.9 | 370.8 | 370.2 | 369.7 | 369.1 | 368.5 | 369.1 | 369.7 | 370.2 |
| 117.5° | 412.6 | 413.0 | 413.4 | 413.5 | 413.3 | 413.1 | 412.9 | 412.7 | 412.9 | 413.1 | 413.3 |
| 120° | 456.3 | 457.2 | 458.2 | 458.1 | 456.9 | 455.8 | 454.6 | 453.5 | 454.6 | 455.8 | 456.9 |
| 122.5° | 498.5 | 498.9 | 499.2 | 499.0 | 498.3 | 497.5 | 496.7 | 496.0 | 496.7 | 497.5 | 498.3 |
| 125° | 541.0 | 541.3 | 541.7 | 541.6 | 541.0 | 540.5 | 539.9 | 539.3 | 539.9 | 540.5 | 541.0 |
| 127.5° | 583.4 | 583.8 | 584.2 | 583.8 | 582.7 | 581.5 | 580.4 | 579.2 | 580.4 | 581.5 | 582.7 |
| 130° | 624.6 | 625.2 | 625.7 | 625.2 | 623.7 | 622.2 | 620.6 | 619.1 | 620.6 | 622.2 | 623.7 |
| 132.5° | 664.9 | 665.3 | 665.7 | 665.1 | 663.6 | 662.1 | 660.5 | 659.0 | 660.5 | 662.1 | 663.6 |
| 135° | 704.4 | 704.6 | 704.8 | 704.3 | 703.2 | 702.0 | 700.9 | 699.7 | 700.9 | 702.0 | 703.2 |
| 137.5° | 742.8 | 742.2 | 741.6 | 740.9 | 739.9 | 738.9 | 738.0 | 737.0 | 738.0 | 738.9 | 739.9 |
| 140° | 780.8 | 780.6 | 780.5 | 779.9 | 778.9 | 777.9 | 777.0 | 776.0 | 777.0 | 777.9 | 778.9 |
| 142.5° | 816.9 | 816.5 | 816.1 | 815.4 | 814.5 | 813.5 | 812.5 | 811.6 | 812.5 | 813.5 | 814.5 |
| 145° | 852.0 | 851.5 | 850.9 | 850.4 | 850.0 | 849.6 | 849.2 | 848.9 | 849.2 | 849.6 | 850.0 |
| 147.5° | 885.8 | 885.3 | 884.7 | 884.0 | 883.2 | 882.5 | 881.7 | 880.9 | 881.7 | 882.5 | 883.2 |
| 150° | 917.4 | 917.1 | 916.7 | 916.3 | 915.9 | 915.5 | 915.1 | 914.8 | 915.1 | 915.5 | 915.9 |
| 152.5° | 945.6 | 945.4 | 945.2 | 944.8 | 944.2 | 943.7 | 943.1 | 942.5 | 943.1 | 943.7 | 944.2 |
| 155° | 972.5 | 972.3 | 972.1 | 972.0 | 972.0 | 972.0 | 972.0 | 972.0 | 972.0 | 972.0 | 972.0 |
| 157.5° | 996.7 | 996.5 | 996.4 | 996.4 | 996.5 | 996.7 | 996.9 | 997.1 | 996.9 | 996.7 | 996.5 |
| 160° | 1018.8 | 1018.8 | 1018.8 | 1019.0 | 1019.4 | 1019.8 | 1020.1 | 1020.5 | 1020.1 | 1019.8 | 1019.4 |
| 162.5° | 1039.2 | 1039.0 | 1038.8 | 1039.0 | 1039.6 | 1040.2 | 1040.8 | 1041.3 | 1040.8 | 1040.2 | 1039.6 |
| 165° | 1056.1 | 1056.1 | 1056.1 | 1056.4 | 1057.0 | 1057.5 | 1058.1 | 1058.7 | 1058.1 | 1057.5 | 1057.0 |
| 167.5° | 1070.4 | 1070.2 | 1070.1 | 1070.3 | 1071.1 | 1071.9 | 1072.7 | 1073.4 | 1072.7 | 1071.9 | 1071.1 |
| 170° | 1082.1 | 1082.1 | 1082.1 | 1082.5 | 1083.3 | 1084.0 | 1084.8 | 1085.6 | 1084.8 | 1084.0 | 1083.3 |
| 172.5° | 1091.6 | 1091.6 | 1091.6 | 1092.0 | 1092.8 | 1093.6 | 1094.3 | 1095.1 | 1094.3 | 1093.6 | 1092.8 |
| 175° | 1097.7 | 1097.7 | 1097.7 | 1098.1 | 1098.9 | 1099.6 | 1100.4 | 1101.2 | 1100.4 | 1099.6 | 1098.9 |
| 177.5° | 1101.2 | 1101.2 | 1101.2 | 1101.6 | 1102.3 | 1103.1 | 1103.9 | 1104.6 | 1103.9 | 1103.1 | 1102.3 |
| 180° | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 | 3598.7 |
| 2.5° | 3483.6 | 3441.6 | 3399.5 | 3369.3 | 3339.0 | 3301.4 | 3263.8 | 3262.3 | 3260.8 | 3232.8 | 3204.8 |
| 5° | 3277.1 | 3204.0 | 3131.0 | 3059.4 | 2987.9 | 2916.3 | 2844.8 | 2828.5 | 2812.3 | 2787.9 | 2763.6 |
| 7.5° | 3094.1 | 2977.5 | 2861.0 | 2769.5 | 2678.0 | 2606.5 | 2534.9 | 2486.2 | 2437.5 | 2399.9 | 2362.3 |
| 10° | 2897.9 | 2753.3 | 2608.7 | 2498.0 | 2387.3 | 2309.9 | 2232.4 | 2176.4 | 2120.3 | 2093.7 | 2067.2 |
| 12.5° | 2694.3 | 2537.1 | 2380.0 | 2271.5 | 2163.1 | 2070.1 | 1977.2 | 1926.3 | 1875.4 | 1838.5 | 1801.6 |
| 15° | 2506.9 | 2337.9 | 2169.0 | 2053.9 | 1938.8 | 1851.7 | 1764.7 | 1713.8 | 1662.9 | 1626.0 | 1589.1 |
| 17.5° | 2325.4 | 2155.0 | 1984.5 | 1868.0 | 1751.4 | 1672.5 | 1593.5 | 1544.1 | 1494.7 | 1471.8 | 1448.9 |
| 20° | 2160.1 | 1988.2 | 1816.3 | 1706.4 | 1596.5 | 1519.0 | 1441.6 | 1415.0 | 1388.4 | 1367.0 | 1345.6 |
| 22.5° | 1996.3 | 1831.1 | 1665.8 | 1560.3 | 1454.8 | 1398.8 | 1342.7 | 1321.3 | 1299.9 | 1283.7 | 1267.4 |
| 25° | 1859.1 | 1694.6 | 1530.1 | 1437.9 | 1345.6 | 1302.1 | 1258.6 | 1244.6 | 1230.6 | 1214.3 | 1198.1 |
| 27.5° | 1720.4 | 1564.0 | 1407.6 | 1333.8 | 1260.1 | 1224.7 | 1189.2 | 1171.5 | 1153.8 | 1140.6 | 1127.3 |
| 30° | 1598.0 | 1453.4 | 1308.8 | 1247.5 | 1186.3 | 1155.3 | 1124.3 | 1105.1 | 1086.0 | 1073.4 | 1060.9 |
| 32.5° | 1479.9 | 1351.6 | 1223.2 | 1170.8 | 1118.4 | 1088.2 | 1057.9 | 1039.5 | 1021.0 | 1006.3 | 991.5 |
| 35° | 1370.7 | 1259.3 | 1147.9 | 1100.0 | 1052.0 | 1021.8 | 991.5 | 973.1 | 954.6 | 939.9 | 925.1 |
| 37.5° | 1274.8 | 1173.8 | 1072.7 | 1027.7 | 982.7 | 956.1 | 929.6 | 910.4 | 891.2 | 875.7 | 860.2 |
| 40° | 1184.8 | 1095.6 | 1006.3 | 962.8 | 919.2 | 890.5 | 861.7 | 844.7 | 827.8 | 813.7 | 799.7 |
| 42.5° | 1105.1 | 1023.3 | 941.4 | 898.6 | 855.8 | 828.5 | 801.2 | 781.3 | 761.4 | 753.2 | 745.1 |
| 45° | 1021.0 | 948.7 | 876.4 | 835.1 | 793.8 | 765.0 | 736.3 | 719.3 | 702.3 | 695.0 | 687.6 |
| 47.5° | 947.3 | 880.1 | 813.0 | 772.4 | 731.8 | 706.0 | 680.2 | 666.9 | 653.6 | 643.3 | 633.0 |
| 50° | 875.0 | 810.0 | 745.1 | 706.0 | 666.9 | 644.8 | 622.7 | 606.4 | 590.2 | 582.8 | 575.4 |
| 52.5° | 805.6 | 746.6 | 687.6 | 647.7 | 607.9 | 586.5 | 565.1 | 551.1 | 537.1 | 521.6 | 506.1 |
| 55° | 727.4 | 675.8 | 624.1 | 588.7 | 553.3 | 531.2 | 509.0 | 492.8 | 476.6 | 460.4 | 444.1 |
| 57.5° | 662.5 | 611.6 | 560.7 | 529.0 | 497.2 | 475.8 | 454.5 | 436.7 | 419.0 | 405.8 | 392.5 |
| 60° | 591.7 | 547.4 | 503.1 | 472.2 | 441.2 | 420.5 | 399.9 | 382.9 | 365.9 | 359.3 | 352.6 |
| 62.5° | 525.3 | 484.0 | 442.6 | 415.4 | 388.1 | 368.1 | 348.2 | 337.2 | 326.1 | 321.7 | 317.2 |
| 65° | 457.4 | 422.0 | 386.6 | 361.5 | 336.4 | 319.4 | 302.5 | 297.3 | 292.1 | 288.5 | 284.8 |
| 67.5° | 394.0 | 363.7 | 333.5 | 311.3 | 289.2 | 277.4 | 265.6 | 259.7 | 253.8 | 249.4 | 244.9 |
| 70° | 336.4 | 309.9 | 283.3 | 264.1 | 244.9 | 233.9 | 222.8 | 217.6 | 212.5 | 204.4 | 196.2 |
| 72.5° | 274.4 | 253.8 | 233.1 | 218.4 | 203.6 | 194.0 | 184.4 | 174.1 | 163.8 | 156.4 | 149.0 |
| 75° | 227.2 | 206.6 | 185.9 | 171.9 | 157.9 | 146.8 | 135.7 | 132.1 | 128.4 | 126.2 | 123.9 |
| 77.5° | 174.1 | 156.4 | 138.7 | 127.6 | 116.6 | 111.4 | 106.2 | 104.0 | 101.8 | 101.1 | 100.3 |
| 80° | 125.4 | 110.7 | 95.9 | 90.0 | 84.1 | 82.6 | 81.2 | 79.7 | 78.2 | 77.5 | 76.7 |
| 82.5° | 78.2 | 70.8 | 63.4 | 62.0 | 60.5 | 59.8 | 59.0 | 58.3 | 57.5 | 56.8 | 56.1 |
| 85° | 45.7 | 42.8 | 39.8 | 39.1 | 38.4 | 37.6 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 |
| 87.5° | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 18.4 | 17.7 |
| 90° | 8.6 | 10.8 | 13.3 | 15.8 | 18.3 | 20.8 | 21.6 | 22.4 | 23.1 | 23.9 | 24.5 |
| 92.5° | 30.6 | 31.8 | 32.9 | 34.1 | 35.3 | 36.4 | 37.0 | 37.6 | 38.2 | 38.7 | 38.8 |
| 95° | 56.6 | 58.0 | 59.5 | 61.1 | 62.6 | 64.2 | 64.9 | 65.7 | 66.5 | 67.2 | 67.6 |
| 97.5° | 88.0 | 89.0 | 90.2 | 91.3 | 92.5 | 93.6 | 94.6 | 95.6 | 96.5 | 97.5 | 97.9 |
| 100° | 122.5 | 123.6 | 124.6 | 125.5 | 126.5 | 127.5 | 128.0 | 128.6 | 129.2 | 129.8 | 130.3 |
| 102.5° | 159.3 | 160.2 | 161.6 | 162.9 | 164.3 | 165.6 | 166.2 | 166.8 | 167.3 | 167.9 | 168.1 |
| 105° | 196.6 | 197.7 | 199.4 | 201.2 | 202.9 | 204.6 | 204.6 | 204.6 | 204.6 | 204.6 | 204.8 |
| 107.5° | 240.9 | 241.4 | 242.2 | 243.0 | 243.7 | 244.5 | 245.1 | 245.7 | 246.2 | 246.8 | 247.0 |
| 110° | 283.3 | 283.7 | 284.1 | 284.5 | 284.9 | 285.3 | 286.0 | 286.8 | 287.6 | 288.3 | 288.5 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 325.9 | 326.0 | 326.0 | 326.0 | 326.0 | 326.0 | 327.0 | 327.9 | 328.9 | 329.9 | 330.4 |
| 115° | 370.8 | 370.9 | 370.5 | 370.1 | 369.8 | 369.4 | 369.6 | 369.8 | 369.9 | 370.1 | 370.1 |
| 117.5° | 413.5 | 413.4 | 413.0 | 412.6 | 412.2 | 411.9 | 411.9 | 411.9 | 411.9 | 411.9 | 411.6 |
| 120° | 458.1 | 458.2 | 457.2 | 456.3 | 455.3 | 454.3 | 454.1 | 454.0 | 453.8 | 453.6 | 453.3 |
| 122.5° | 499.0 | 499.2 | 498.9 | 498.5 | 498.1 | 497.7 | 497.1 | 496.5 | 496.0 | 495.4 | 494.8 |
| 125° | 541.6 | 541.7 | 541.3 | 541.0 | 540.6 | 540.2 | 539.4 | 538.6 | 537.9 | 537.1 | 536.3 |
| 127.5° | 583.8 | 584.2 | 583.8 | 583.4 | 583.1 | 582.7 | 581.5 | 580.4 | 579.2 | 578.0 | 577.1 |
| 130° | 625.2 | 625.7 | 625.2 | 624.6 | 624.0 | 623.4 | 622.6 | 621.9 | 621.1 | 620.3 | 619.3 |
| 132.5° | 665.1 | 665.7 | 665.3 | 664.9 | 664.6 | 664.2 | 663.2 | 662.2 | 661.3 | 660.3 | 659.4 |
| 135° | 704.3 | 704.8 | 704.6 | 704.4 | 704.2 | 704.1 | 703.3 | 702.5 | 701.7 | 701.0 | 700.4 |
| 137.5° | 740.9 | 741.6 | 742.2 | 742.8 | 743.4 | 743.9 | 743.0 | 742.0 | 741.1 | 740.1 | 739.3 |
| 140° | 779.9 | 780.5 | 780.6 | 780.8 | 781.0 | 781.2 | 781.0 | 780.8 | 780.6 | 780.5 | 779.7 |
| 142.5° | 815.4 | 816.1 | 816.5 | 816.9 | 817.3 | 817.6 | 817.4 | 817.3 | 817.1 | 816.9 | 816.3 |
| 145° | 850.4 | 850.9 | 851.5 | 852.0 | 852.6 | 853.2 | 853.0 | 852.8 | 852.6 | 852.4 | 851.9 |
| 147.5° | 884.0 | 884.7 | 885.3 | 885.8 | 886.4 | 887.0 | 887.0 | 887.0 | 887.0 | 887.0 | 886.4 |
| 150° | 916.3 | 916.7 | 917.1 | 917.4 | 917.8 | 918.2 | 918.2 | 918.2 | 918.2 | 918.2 | 917.6 |
| 152.5° | 944.8 | 945.2 | 945.4 | 945.6 | 945.8 | 946.0 | 946.4 | 946.7 | 947.1 | 947.5 | 947.2 |
| 155° | 972.0 | 972.1 | 972.3 | 972.5 | 972.7 | 972.8 | 973.6 | 974.4 | 975.2 | 975.9 | 975.6 |
| 157.5° | 996.4 | 996.4 | 996.5 | 996.7 | 996.9 | 997.1 | 997.9 | 998.7 | 999.4 | 1000.2 | 1000.0 |
| 160° | 1019.0 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1019.8 | 1020.7 | 1021.7 | 1022.7 | 1022.7 |
| 162.5° | 1039.0 | 1038.8 | 1039.0 | 1039.2 | 1039.4 | 1039.6 | 1040.6 | 1041.5 | 1042.5 | 1043.5 | 1043.3 |
| 165° | 1056.4 | 1056.1 | 1056.1 | 1056.1 | 1056.1 | 1056.1 | 1057.2 | 1058.4 | 1059.6 | 1060.7 | 1060.6 |
| 167.5° | 1070.3 | 1070.1 | 1070.2 | 1070.4 | 1070.6 | 1070.8 | 1072.0 | 1073.1 | 1074.3 | 1075.4 | 1075.4 |
| 170° | 1082.5 | 1082.1 | 1082.1 | 1082.1 | 1082.1 | 1082.1 | 1083.4 | 1084.8 | 1086.1 | 1087.5 | 1087.5 |
| 172.5° | 1092.0 | 1091.6 | 1091.6 | 1091.6 | 1091.6 | 1091.6 | 1092.8 | 1093.9 | 1095.1 | 1096.3 | 1096.2 |
| 175° | 1098.1 | 1097.7 | 1097.7 | 1097.7 | 1097.7 | 1097.7 | 1098.9 | 1100.0 | 1101.2 | 1102.3 | 1102.2 |
| 177.5° | 1101.6 | 1101.2 | 1101.2 | 1101.2 | 1101.2 | 1101.2 | 1102.3 | 1103.5 | 1104.6 | 1105.8 | 1105.7 |
| 180° | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 | 1103.8 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 3598.7 | 3598.7 | 3598.7 | 3598.7 |
| 2.5° | 3197.4 | 3190.0 | 3187.1 | 3184.1 |
| 5° | 2740.7 | 2717.9 | 2712.7 | 2707.5 |
| 7.5° | 2352.7 | 2343.1 | 2311.4 | 2279.6 |
| 10° | 2037.7 | 2008.1 | 1994.9 | 1981.6 |
| 12.5° | 1774.3 | 1747.0 | 1742.6 | 1738.1 |
| 15° | 1569.9 | 1550.7 | 1544.1 | 1537.5 |
| 17.5° | 1435.7 | 1422.4 | 1414.3 | 1406.1 |
| 20° | 1336.1 | 1326.5 | 1320.6 | 1314.7 |
| 22.5° | 1260.1 | 1252.7 | 1248.3 | 1243.8 |
| 25° | 1187.0 | 1176.0 | 1172.3 | 1168.6 |
| 27.5° | 1117.7 | 1108.1 | 1104.4 | 1100.7 |
| 30° | 1052.8 | 1044.6 | 1039.5 | 1034.3 |
| 32.5° | 981.9 | 972.4 | 969.4 | 966.4 |
| 35° | 919.2 | 913.3 | 910.4 | 907.4 |
| 37.5° | 852.8 | 845.5 | 841.0 | 836.6 |
| 40° | 796.0 | 792.3 | 790.1 | 787.9 |
| 42.5° | 738.5 | 731.8 | 731.1 | 730.4 |
| 45° | 680.9 | 674.3 | 672.8 | 671.3 |
| 47.5° | 627.1 | 621.2 | 620.4 | 619.7 |
| 50° | 567.3 | 559.2 | 553.3 | 547.4 |
| 52.5° | 498.7 | 491.3 | 486.2 | 481.0 |
| 55° | 436.0 | 427.9 | 423.5 | 419.0 |
| 57.5° | 388.8 | 385.1 | 382.9 | 380.7 |
| 60° | 350.4 | 348.2 | 346.7 | 345.3 |
| 62.5° | 315.0 | 312.8 | 312.8 | 312.8 |
| 65° | 282.6 | 280.3 | 278.1 | 275.9 |
| 67.5° | 240.5 | 236.1 | 235.3 | 234.6 |
| 70° | 189.6 | 183.0 | 182.2 | 181.5 |
| 72.5° | 148.3 | 147.5 | 146.1 | 144.6 |
| 75° | 122.5 | 121.0 | 121.0 | 121.0 |
| 77.5° | 98.9 | 97.4 | 97.4 | 97.4 |
| 80° | 76.0 | 75.3 | 76.0 | 76.7 |
| 82.5° | 56.1 | 56.1 | 55.3 | 54.6 |
| 85° | 36.1 | 35.4 | 35.4 | 35.4 |
| 87.5° | 17.7 | 17.7 | 17.7 | 17.7 |
| 90° | 24.9 | 25.2 | 25.6 | 26.0 |
| 92.5° | 38.4 | 38.1 | 37.7 | 37.3 |
| 95° | 67.6 | 67.6 | 67.6 | 67.6 |
| 97.5° | 97.7 | 97.5 | 97.3 | 97.1 |
| 100° | 130.6 | 131.0 | 131.4 | 131.8 |
| 102.5° | 167.9 | 167.7 | 167.5 | 167.3 |
| 105° | 205.2 | 205.6 | 206.0 | 206.4 |
| 107.5° | 246.8 | 246.6 | 246.4 | 246.2 |
| 110° | 288.2 | 287.8 | 287.4 | 287.0 |



TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 330.4 | 330.4 | 330.4 | 330.4 |
| 115° | 369.9 | 369.8 | 369.6 | 369.4 |
| 117.5° | 411.0 | 410.4 | 409.8 | 409.3 |
| 120° | 452.9 | 452.5 | 452.1 | 451.7 |
| 122.5° | 494.2 | 493.6 | 493.1 | 492.5 |
| 125° | 535.6 | 534.8 | 534.0 | 533.2 |
| 127.5° | 576.3 | 575.5 | 574.8 | 574.0 |
| 130° | 617.9 | 616.6 | 615.2 | 613.9 |
| 132.5° | 658.4 | 657.4 | 656.5 | 655.5 |
| 135° | 700.0 | 699.6 | 699.2 | 698.9 |
| 137.5° | 738.7 | 738.2 | 737.6 | 737.0 |
| 140° | 778.3 | 777.0 | 775.6 | 774.3 |
| 142.5° | 815.3 | 814.4 | 813.4 | 812.4 |
| 145° | 851.2 | 850.4 | 849.6 | 848.9 |
| 147.5° | 885.3 | 884.1 | 883.0 | 881.8 |
| 150° | 916.5 | 915.3 | 914.2 | 913.0 |
| 152.5° | 946.3 | 945.3 | 944.3 | 943.4 |
| 155° | 974.3 | 972.9 | 971.6 | 970.2 |
| 157.5° | 998.9 | 997.7 | 996.5 | 995.4 |
| 160° | 1022.0 | 1021.2 | 1020.4 | 1019.7 |
| 162.5° | 1041.9 | 1040.6 | 1039.2 | 1037.9 |
| 165° | 1059.3 | 1057.9 | 1056.6 | 1055.2 |
| 167.5° | 1074.3 | 1073.1 | 1072.0 | 1070.8 |
| 170° | 1086.1 | 1084.8 | 1083.4 | 1082.1 |
| 172.5° | 1094.8 | 1093.5 | 1092.1 | 1090.8 |
| 175° | 1100.9 | 1099.5 | 1098.2 | 1096.8 |
| 177.5° | 1104.3 | 1103.0 | 1101.7 | 1100.3 |
| 180° | 1103.8 | 1103.8 | 1103.8 | 1103.8 |

TEST NUMBER: P831883

CATALOG NUMBER: S123RDIP-S1000D805U850-4F0-1E-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 | 14.42 | 15.32 | 15.29 | 16.21 | 17.32 | 19.09 | 19.99 | 19.96 | 20.87 | 21.98 |
| | 3H | 15.65 | 16.45 | 16.53 | 17.35 | 18.48 | 20.59 | 21.40 | 21.48 | 22.29 | 23.42 |
| | 4H | 16.04 | 16.79 | 16.93 | 17.69 | 18.84 | 21.09 | 21.84 | 21.98 | 22.74 | 23.89 |
| | 6H | 16.32 | 17.02 | 17.23 | 17.92 | 19.08 | 21.40 | 22.10 | 22.31 | 23.00 | 24.16 |
| | 8H | 16.41 | 17.07 | 17.33 | 17.99 | 19.15 | 21.48 | 22.14 | 22.40 | 23.07 | 24.22 |
| | 12H | 16.46 | 17.09 | 17.39 | 18.01 | 19.19 | 21.52 | 22.15 | 22.44 | 23.06 | 24.24 |
| 4H | 2H | 15.16 | 15.91 | 16.06 | 16.81 | 17.96 | 19.09 | 19.85 | 19.99 | 20.75 | 21.89 |
| | 3H | 16.53 | 17.16 | 17.44 | 18.09 | 19.25 | 20.76 | 21.38 | 21.67 | 22.31 | 23.47 |
| | 4H | 16.99 | 17.56 | 17.91 | 18.49 | 19.67 | 21.36 | 21.94 | 22.29 | 22.86 | 24.05 |
| | 6H | 17.36 | 17.85 | 18.30 | 18.80 | 19.99 | 21.81 | 22.30 | 22.74 | 23.25 | 24.44 |
| | 8H | 17.49 | 17.95 | 18.43 | 18.89 | 20.09 | 21.94 | 22.40 | 22.88 | 23.34 | 24.54 |
| | 12H | 17.57 | 17.98 | 18.52 | 18.94 | 20.14 | 22.00 | 22.42 | 22.96 | 23.38 | 24.58 |
| 8H | 4H | 17.31 | 17.77 | 18.25 | 18.71 | 19.91 | 21.34 | 21.80 | 22.28 | 22.74 | 23.94 |
| | 6H | 17.77 | 18.15 | 18.74 | 19.14 | 20.34 | 21.84 | 22.21 | 22.80 | 23.20 | 24.40 |
| | 8H | 17.97 | 18.30 | 18.94 | 19.28 | 20.49 | 22.02 | 22.35 | 23.00 | 23.33 | 24.55 |
| | 12H | 18.11 | 18.40 | 19.09 | 19.37 | 20.64 | 22.14 | 22.43 | 23.12 | 23.40 | 24.67 |
| 12H | 4H | 17.32 | 17.73 | 18.28 | 18.69 | 19.90 | 21.29 | 21.70 | 22.25 | 22.66 | 23.87 |
| | 6H | 17.83 | 18.17 | 18.81 | 19.14 | 20.36 | 21.81 | 22.14 | 22.78 | 23.12 | 24.34 |
| | 8H | 18.05 | 18.35 | 19.03 | 19.31 | 20.58 | 22.01 | 22.30 | 22.98 | 23.27 | 24.53 |