

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: P831085

Luminaire Tested: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831085
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1195U927-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

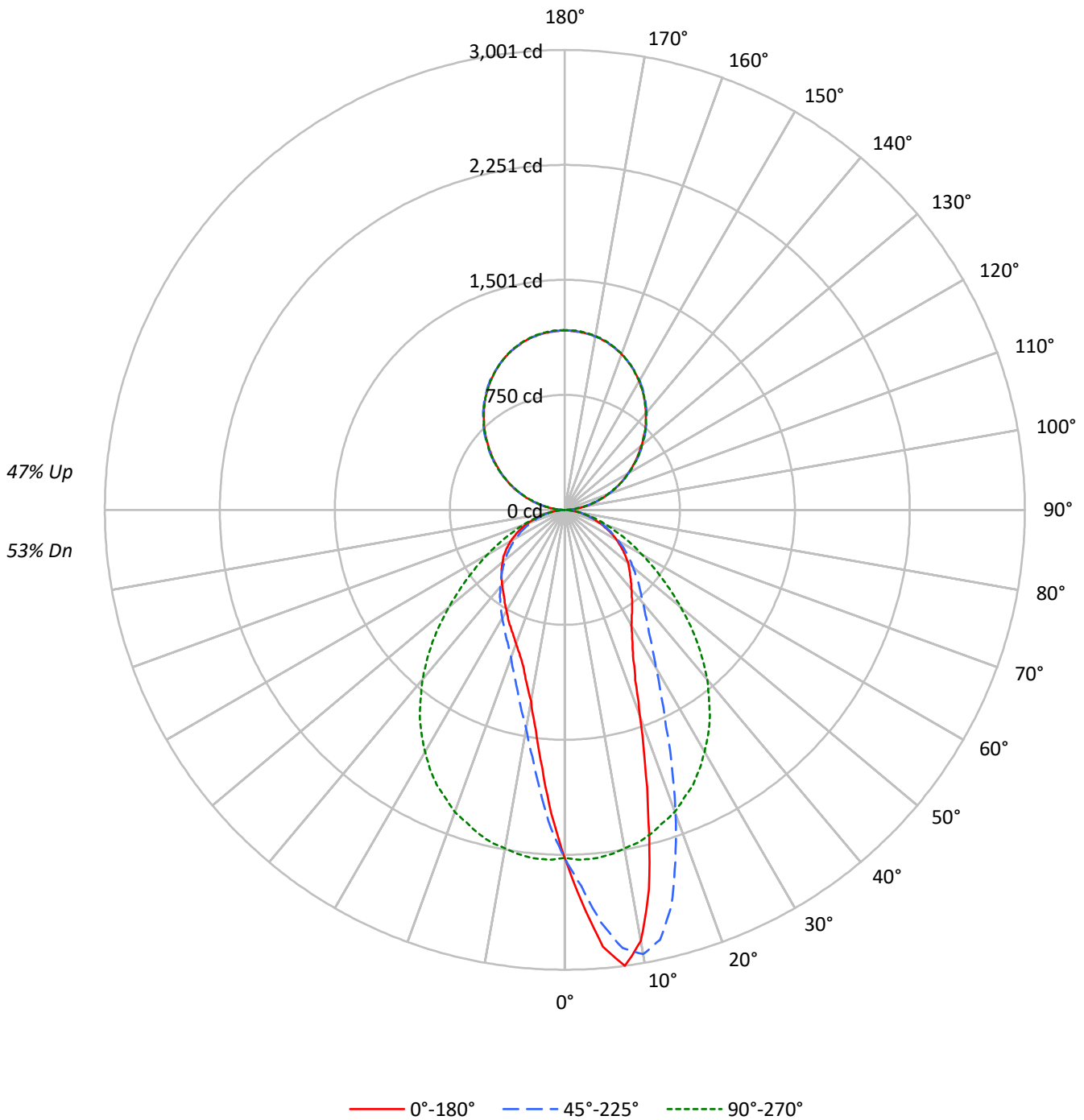
Lumens per Lamp: N/A
Luminaire Lumens: 6901.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.1
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: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 | | | | |
| 1 | 99 | 95 | 91 | 88 | 92 | 88 | 85 | 82 | 75 | 73 | 71 | 64 | 62 | 60 | 53 | 52 | 51 | 46 | | | | |
| 2 | 91 | 84 | 78 | 73 | 84 | 78 | 73 | 68 | 67 | 63 | 60 | 57 | 54 | 51 | 47 | 45 | 44 | 39 | | | | |
| 3 | 83 | 74 | 67 | 61 | 77 | 69 | 63 | 58 | 59 | 55 | 51 | 51 | 47 | 44 | 42 | 40 | 38 | 34 | | | | |
| 4 | 76 | 66 | 58 | 53 | 71 | 62 | 55 | 50 | 53 | 48 | 44 | 46 | 42 | 39 | 38 | 36 | 33 | 30 | | | | |
| 5 | 70 | 59 | 51 | 46 | 65 | 55 | 48 | 43 | 48 | 43 | 39 | 41 | 37 | 34 | 35 | 32 | 30 | 26 | | | | |
| 6 | 65 | 54 | 46 | 40 | 60 | 50 | 43 | 38 | 44 | 38 | 34 | 38 | 33 | 30 | 32 | 29 | 26 | 24 | | | | |
| 7 | 61 | 49 | 41 | 36 | 56 | 46 | 39 | 34 | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 26 | 24 | 21 | | | | |
| 8 | 56 | 44 | 37 | 32 | 52 | 42 | 35 | 30 | 37 | 31 | 27 | 32 | 28 | 25 | 27 | 24 | 22 | 19 | | | | |
| 9 | 53 | 41 | 34 | 29 | 49 | 38 | 32 | 27 | 34 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 20 | 18 | | | | |
| 10 | 49 | 38 | 31 | 26 | 46 | 36 | 29 | 25 | 31 | 26 | 23 | 28 | 23 | 20 | 24 | 21 | 18 | 16 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 24455 | 24455 | 24455 | 24455 | 24455 |
| 5° | 30927 | 29190 | 24673 | 19883 | 18271 |
| 10° | 31227 | 32172 | 24509 | 15850 | 13850 |
| 15° | 23520 | 29869 | 24342 | 13422 | 11713 |
| 20° | 16387 | 24171 | 24032 | 11738 | 10639 |
| 25° | 12495 | 18587 | 23502 | 10799 | 9979 |
| 30° | 10811 | 14767 | 22656 | 10136 | 9447 |
| 35° | 10030 | 12468 | 21680 | 9656 | 9073 |
| 40° | 9496 | 11185 | 20310 | 9199 | 8948 |
| 45° | 9179 | 10351 | 18568 | 8843 | 8891 |
| 50° | 9021 | 9692 | 16506 | 8519 | 8845 |
| 55° | 8685 | 9211 | 14482 | 8210 | 8884 |
| 60° | 8374 | 8693 | 12482 | 7920 | 8738 |
| 65° | 7868 | 8204 | 10769 | 7613 | 8565 |
| 70° | 7267 | 7582 | 9158 | 7100 | 8063 |
| 75° | 6575 | 6796 | 7848 | 6600 | 7365 |
| 80° | 5424 | 5945 | 6211 | 5752 | 6211 |
| 85° | 4298 | 4817 | 4557 | 4878 | 4952 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 21200 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 214.8 | 3.1 |
| 10°-20° | 534.3 | 7.7 |
| 20°-30° | 632.7 | 9.2 |
| 30°-40° | 636.1 | 9.2 |
| 40°-50° | 583.6 | 8.5 |
| 50°-60° | 481.7 | 7.0 |
| 60°-70° | 340.8 | 4.9 |
| 70°-80° | 181.9 | 2.6 |
| 80°-90° | 48.6 | 0.7 |
| 90°-100° | 75.4 | 1.1 |
| 100°-110° | 228.3 | 3.3 |
| 110°-120° | 388.6 | 5.6 |
| 120°-130° | 511.3 | 7.4 |
| 130°-140° | 574.7 | 8.3 |
| 140°-150° | 565.0 | 8.2 |
| 150°-160° | 475.7 | 6.9 |
| 160°-170° | 316.7 | 4.6 |
| 170°-180° | 110.9 | 1.6 |
| 0°-30° | 1381.8 | 20.0 |
| 0°-40° | 2018.0 | 29.2 |
| 0°-60° | 3083.3 | 44.7 |
| 0°-90° | 3654.6 | 53.0 |
| 90°-120° | 692.4 | 10.0 |
| 90°-150° | 2343.3 | 34.0 |
| 90°-180° | 3247.0 | 47.1 |
| 0°-180° | 6901.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2272 | 2272 | 2272 | 2272 | 2272 | |
| 5° | 2862 | 2702 | 2284 | 1840 | 1691 | 273 |
| 15° | 2111 | 2680 | 2184 | 1204 | 1051 | 583 |
| 25° | 1052 | 1565 | 1979 | 909 | 840 | 497 |
| 35° | 763 | 949 | 1650 | 735 | 690 | 480 |
| 45° | 603 | 680 | 1220 | 581 | 584 | 467 |
| 55° | 463 | 491 | 772 | 438 | 473 | 414 |
| 65° | 309 | 322 | 423 | 299 | 336 | 307 |
| 75° | 158 | 163 | 189 | 159 | 177 | 166 |
| 85° | 35 | 39 | 37 | 40 | 40 | 39 |
| 90° | 28 | 22 | 1 | 22 | 28 | 15 |
| 95° | 72 | 68 | 54 | 68 | 72 | 72 |
| 105° | 219 | 217 | 207 | 217 | 219 | 232 |
| 115° | 392 | 392 | 391 | 392 | 392 | 388 |
| 125° | 566 | 573 | 572 | 573 | 566 | 506 |
| 135° | 742 | 747 | 743 | 747 | 742 | 571 |
| 145° | 901 | 906 | 901 | 906 | 901 | 563 |
| 155° | 1030 | 1033 | 1032 | 1033 | 1030 | 475 |
| 165° | 1120 | 1121 | 1124 | 1121 | 1120 | 316 |
| 175° | 1164 | 1165 | 1169 | 1165 | 1164 | 111 |
| 180° | 1172 | 1172 | 1172 | 1172 | 1172 | |



TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 |
| 2.5° | 2560.8 | 2558.1 | 2555.5 | 2542.3 | 2529.1 | 2522.8 | 2516.5 | 2497.5 | 2478.5 | 2457.5 | 2436.4 |
| 5° | 2862.3 | 2869.7 | 2877.0 | 2868.6 | 2860.2 | 2834.3 | 2808.5 | 2774.3 | 2740.0 | 2701.5 | 2663.0 |
| 7.5° | 3001.4 | 3005.7 | 3009.9 | 3004.6 | 2999.3 | 2992.5 | 2985.6 | 2955.1 | 2924.5 | 2885.0 | 2845.4 |
| 10° | 2857.0 | 2866.5 | 2876.0 | 2896.5 | 2917.1 | 2940.3 | 2963.5 | 2959.3 | 2955.1 | 2943.5 | 2931.9 |
| 12.5° | 2539.7 | 2551.3 | 2562.9 | 2604.0 | 2645.1 | 2697.8 | 2750.5 | 2795.9 | 2841.2 | 2872.8 | 2904.5 |
| 15° | 2110.6 | 2142.8 | 2174.9 | 2212.3 | 2249.8 | 2327.3 | 2404.7 | 2500.2 | 2595.6 | 2680.4 | 2765.3 |
| 17.5° | 1738.5 | 1750.6 | 1762.7 | 1802.8 | 1842.8 | 1940.3 | 2037.9 | 2148.0 | 2258.2 | 2398.9 | 2539.7 |
| 20° | 1430.6 | 1441.7 | 1452.8 | 1505.5 | 1558.2 | 1634.6 | 1711.0 | 1834.9 | 1958.8 | 2110.1 | 2261.4 |
| 22.5° | 1201.8 | 1219.2 | 1236.6 | 1266.2 | 1295.7 | 1368.9 | 1442.2 | 1552.4 | 1662.5 | 1829.6 | 1996.7 |
| 25° | 1052.1 | 1064.8 | 1077.4 | 1095.4 | 1113.3 | 1171.8 | 1230.3 | 1321.0 | 1411.6 | 1565.0 | 1718.4 |
| 27.5° | 949.9 | 955.1 | 960.4 | 978.3 | 996.3 | 1034.2 | 1072.2 | 1150.2 | 1228.2 | 1358.4 | 1488.6 |
| 30° | 869.8 | 873.4 | 877.1 | 892.9 | 908.8 | 934.6 | 960.4 | 1016.8 | 1073.2 | 1188.1 | 1303.1 |
| 32.5° | 813.9 | 816.5 | 819.2 | 831.3 | 843.4 | 861.8 | 880.3 | 921.4 | 962.5 | 1057.4 | 1152.3 |
| 35° | 763.3 | 764.9 | 766.4 | 775.4 | 784.4 | 798.1 | 811.8 | 842.9 | 874.0 | 948.8 | 1023.7 |
| 37.5° | 719.0 | 721.1 | 723.2 | 728.5 | 733.8 | 745.9 | 758.0 | 782.8 | 807.6 | 865.0 | 922.5 |
| 40° | 675.8 | 679.5 | 683.2 | 686.8 | 690.5 | 700.5 | 710.6 | 729.5 | 748.5 | 796.0 | 843.4 |
| 42.5° | 638.9 | 642.6 | 646.3 | 647.8 | 649.4 | 655.2 | 661.0 | 678.4 | 695.8 | 731.1 | 766.4 |
| 45° | 603.0 | 604.6 | 606.2 | 607.8 | 609.4 | 614.1 | 618.8 | 634.1 | 649.4 | 680.0 | 710.6 |
| 47.5° | 570.3 | 570.3 | 570.3 | 571.4 | 572.5 | 576.7 | 580.9 | 592.0 | 603.0 | 626.8 | 650.5 |
| 50° | 538.7 | 538.7 | 538.7 | 537.1 | 535.6 | 538.2 | 540.8 | 549.3 | 557.7 | 578.8 | 599.9 |
| 52.5° | 500.8 | 500.8 | 500.8 | 501.3 | 501.8 | 501.8 | 501.8 | 509.2 | 516.6 | 535.6 | 554.5 |
| 55° | 462.8 | 464.9 | 467.0 | 465.5 | 463.9 | 464.9 | 466.0 | 470.7 | 475.5 | 490.8 | 506.0 |
| 57.5° | 424.9 | 425.9 | 427.0 | 426.4 | 425.9 | 426.4 | 427.0 | 431.2 | 435.4 | 447.0 | 458.6 |
| 60° | 389.0 | 389.0 | 389.0 | 388.0 | 386.9 | 388.0 | 389.0 | 391.1 | 393.2 | 403.8 | 414.3 |
| 62.5° | 349.0 | 349.5 | 350.0 | 350.5 | 351.1 | 350.0 | 349.0 | 351.6 | 354.2 | 362.1 | 370.0 |
| 65° | 308.9 | 309.4 | 309.9 | 311.5 | 313.1 | 312.1 | 311.0 | 313.6 | 316.3 | 322.1 | 327.9 |
| 67.5° | 273.1 | 272.0 | 270.9 | 271.5 | 272.0 | 273.6 | 275.2 | 275.7 | 276.2 | 282.5 | 288.9 |
| 70° | 230.9 | 231.9 | 233.0 | 232.5 | 231.9 | 232.5 | 233.0 | 234.6 | 236.2 | 240.9 | 245.6 |
| 72.5° | 192.9 | 193.5 | 194.0 | 194.0 | 194.0 | 195.0 | 196.1 | 197.7 | 199.3 | 201.9 | 204.5 |
| 75° | 158.1 | 158.1 | 158.1 | 159.2 | 160.2 | 160.8 | 161.3 | 161.3 | 161.3 | 163.4 | 165.5 |
| 77.5° | 120.2 | 122.8 | 125.5 | 124.9 | 124.4 | 125.5 | 126.5 | 128.1 | 129.7 | 130.7 | 131.8 |
| 80° | 87.5 | 87.5 | 87.5 | 88.0 | 88.6 | 90.1 | 91.7 | 92.8 | 93.8 | 95.9 | 98.0 |
| 82.5° | 55.9 | 56.4 | 56.9 | 58.5 | 60.1 | 61.1 | 62.2 | 63.8 | 65.4 | 65.4 | 65.4 |
| 85° | 34.8 | 33.7 | 32.7 | 33.7 | 34.8 | 35.8 | 36.9 | 37.4 | 38.0 | 39.0 | 40.1 |
| 87.5° | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 17.4 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 90° | 27.6 | 27.2 | 26.8 | 26.4 | 26.0 | 25.4 | 24.5 | 23.7 | 22.9 | 22.1 | 19.4 |
| 92.5° | 39.6 | 40.0 | 40.4 | 40.8 | 41.2 | 41.1 | 40.5 | 39.9 | 39.3 | 38.7 | 37.4 |
| 95° | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.4 | 70.6 | 69.7 | 68.9 | 68.1 | 66.5 |
| 97.5° | 103.1 | 103.3 | 103.5 | 103.7 | 103.9 | 103.5 | 102.5 | 101.5 | 100.4 | 99.4 | 98.2 |
| 100° | 139.9 | 139.5 | 139.1 | 138.7 | 138.3 | 137.8 | 137.1 | 136.5 | 135.9 | 135.3 | 134.3 |
| 102.5° | 177.6 | 177.8 | 178.1 | 178.3 | 178.5 | 178.3 | 177.6 | 177.0 | 176.4 | 175.8 | 174.4 |
| 105° | 219.1 | 218.7 | 218.2 | 217.8 | 217.4 | 217.2 | 217.2 | 217.2 | 217.2 | 217.2 | 215.4 |
| 107.5° | 261.4 | 261.6 | 261.8 | 262.0 | 262.2 | 262.0 | 261.4 | 260.8 | 260.2 | 259.6 | 258.7 |
| 110° | 304.7 | 305.1 | 305.5 | 305.9 | 306.3 | 306.1 | 305.3 | 304.5 | 303.6 | 302.8 | 302.4 |



TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 350.7 | 350.7 | 350.7 | 350.7 | 350.7 | 350.2 | 349.1 | 348.1 | 347.1 | 346.1 | 346.1 |
| 115° | 392.1 | 392.3 | 392.5 | 392.7 | 392.9 | 392.9 | 392.7 | 392.5 | 392.3 | 392.1 | 392.5 |
| 117.5° | 434.4 | 435.1 | 435.7 | 436.3 | 436.9 | 437.2 | 437.2 | 437.2 | 437.2 | 437.2 | 437.6 |
| 120° | 479.5 | 479.9 | 480.4 | 480.8 | 481.2 | 481.5 | 481.7 | 481.9 | 482.1 | 482.3 | 483.3 |
| 122.5° | 522.8 | 523.4 | 524.0 | 524.6 | 525.3 | 525.9 | 526.5 | 527.1 | 527.7 | 528.3 | 528.7 |
| 125° | 566.1 | 566.9 | 567.7 | 568.5 | 569.3 | 570.1 | 571.0 | 571.8 | 572.6 | 573.4 | 573.8 |
| 127.5° | 609.3 | 610.1 | 611.0 | 611.8 | 612.6 | 613.6 | 614.8 | 616.1 | 617.3 | 618.5 | 618.9 |
| 130° | 651.7 | 653.1 | 654.5 | 656.0 | 657.4 | 658.5 | 659.3 | 660.1 | 661.0 | 661.8 | 662.4 |
| 132.5° | 695.8 | 696.9 | 697.9 | 698.9 | 699.9 | 701.0 | 702.0 | 703.0 | 704.0 | 705.0 | 705.5 |
| 135° | 741.9 | 742.3 | 742.7 | 743.1 | 743.5 | 744.1 | 744.9 | 745.7 | 746.6 | 747.4 | 747.6 |
| 137.5° | 782.4 | 783.0 | 783.6 | 784.2 | 784.8 | 785.6 | 786.7 | 787.7 | 788.7 | 789.7 | 789.1 |
| 140° | 821.9 | 823.4 | 824.8 | 826.2 | 827.7 | 828.5 | 828.7 | 828.9 | 829.1 | 829.3 | 829.1 |
| 142.5° | 862.4 | 863.5 | 864.5 | 865.5 | 866.5 | 867.1 | 867.3 | 867.5 | 867.8 | 868.0 | 867.5 |
| 145° | 901.1 | 901.9 | 902.7 | 903.5 | 904.4 | 904.9 | 905.1 | 905.3 | 905.5 | 905.7 | 905.1 |
| 147.5° | 936.1 | 937.3 | 938.5 | 939.7 | 941.0 | 941.6 | 941.6 | 941.6 | 941.6 | 941.6 | 941.0 |
| 150° | 969.2 | 970.4 | 971.7 | 972.9 | 974.1 | 974.7 | 974.7 | 974.7 | 974.7 | 974.7 | 974.3 |
| 152.5° | 1001.4 | 1002.4 | 1003.5 | 1004.5 | 1005.5 | 1005.8 | 1005.4 | 1005.0 | 1004.6 | 1004.2 | 1004.0 |
| 155° | 1030.0 | 1031.4 | 1032.8 | 1034.2 | 1035.7 | 1036.0 | 1035.2 | 1034.3 | 1033.5 | 1032.7 | 1032.5 |
| 157.5° | 1056.6 | 1057.9 | 1059.1 | 1060.3 | 1061.6 | 1061.8 | 1060.9 | 1060.1 | 1059.3 | 1058.5 | 1058.3 |
| 160° | 1082.4 | 1083.2 | 1084.1 | 1084.9 | 1085.7 | 1085.6 | 1084.6 | 1083.5 | 1082.5 | 1081.5 | 1081.5 |
| 162.5° | 1101.7 | 1103.2 | 1104.6 | 1106.0 | 1107.5 | 1107.7 | 1106.7 | 1105.6 | 1104.6 | 1103.6 | 1103.4 |
| 165° | 1120.2 | 1121.6 | 1123.0 | 1124.4 | 1125.9 | 1126.0 | 1124.8 | 1123.5 | 1122.3 | 1121.1 | 1121.1 |
| 167.5° | 1136.7 | 1137.9 | 1139.2 | 1140.4 | 1141.6 | 1141.6 | 1140.4 | 1139.2 | 1137.9 | 1136.7 | 1136.5 |
| 170° | 1148.7 | 1150.1 | 1151.5 | 1153.0 | 1154.4 | 1154.4 | 1153.0 | 1151.5 | 1150.1 | 1148.7 | 1148.7 |
| 172.5° | 1157.9 | 1159.3 | 1160.8 | 1162.2 | 1163.6 | 1163.7 | 1162.5 | 1161.3 | 1160.0 | 1158.8 | 1158.8 |
| 175° | 1164.3 | 1165.8 | 1167.2 | 1168.6 | 1170.1 | 1170.2 | 1168.9 | 1167.7 | 1166.5 | 1165.3 | 1165.3 |
| 177.5° | 1168.0 | 1169.4 | 1170.9 | 1172.3 | 1173.7 | 1173.8 | 1172.6 | 1171.4 | 1170.2 | 1168.9 | 1168.9 |
| 180° | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 |

TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 |
| 2.5° | 2430.0 | 2423.7 | 2400.5 | 2377.3 | 2351.0 | 2324.6 | 2305.1 | 2285.6 | 2256.6 | 2227.6 | 2203.9 |
| 5° | 2633.5 | 2604.0 | 2555.0 | 2505.9 | 2439.5 | 2373.1 | 2328.3 | 2283.5 | 2223.4 | 2163.3 | 2115.3 |
| 7.5° | 2794.8 | 2744.2 | 2675.7 | 2607.2 | 2520.2 | 2433.2 | 2351.0 | 2268.7 | 2177.0 | 2085.3 | 2010.5 |
| 10° | 2897.6 | 2863.3 | 2784.3 | 2705.2 | 2588.7 | 2472.2 | 2357.3 | 2242.4 | 2124.3 | 2006.2 | 1907.1 |
| 12.5° | 2907.6 | 2910.8 | 2838.0 | 2765.3 | 2633.5 | 2501.7 | 2362.0 | 2222.4 | 2073.7 | 1925.1 | 1809.6 |
| 15° | 2819.6 | 2873.9 | 2833.8 | 2793.8 | 2660.9 | 2528.1 | 2356.2 | 2184.4 | 2013.1 | 1841.8 | 1708.4 |
| 17.5° | 2656.2 | 2772.7 | 2778.5 | 2784.3 | 2651.4 | 2518.6 | 2328.3 | 2138.0 | 1944.0 | 1750.1 | 1609.8 |
| 20° | 2433.2 | 2605.0 | 2664.1 | 2723.1 | 2615.1 | 2507.0 | 2302.5 | 2098.0 | 1880.8 | 1663.6 | 1516.5 |
| 22.5° | 2205.5 | 2414.2 | 2522.3 | 2630.3 | 2550.2 | 2470.1 | 2252.4 | 2034.7 | 1805.4 | 1576.1 | 1426.9 |
| 25° | 1946.1 | 2173.9 | 2339.9 | 2505.9 | 2456.9 | 2407.9 | 2193.4 | 1978.8 | 1734.8 | 1490.7 | 1338.4 |
| 27.5° | 1720.0 | 1951.4 | 2151.7 | 2352.0 | 2341.5 | 2330.9 | 2118.0 | 1905.0 | 1655.2 | 1405.3 | 1258.2 |
| 30° | 1518.6 | 1734.2 | 1958.3 | 2182.3 | 2208.1 | 2234.0 | 2028.4 | 1822.8 | 1572.4 | 1322.0 | 1180.2 |
| 32.5° | 1340.5 | 1528.7 | 1769.0 | 2009.4 | 2060.0 | 2110.6 | 1925.1 | 1739.5 | 1491.8 | 1244.0 | 1107.5 |
| 35° | 1194.5 | 1365.3 | 1605.6 | 1846.0 | 1909.2 | 1972.5 | 1811.2 | 1649.9 | 1408.5 | 1167.1 | 1036.9 |
| 37.5° | 1065.3 | 1208.2 | 1442.7 | 1677.3 | 1754.8 | 1832.3 | 1687.9 | 1543.4 | 1317.3 | 1091.1 | 971.5 |
| 40° | 958.3 | 1073.2 | 1288.8 | 1504.4 | 1594.0 | 1683.6 | 1564.5 | 1445.4 | 1230.8 | 1016.3 | 906.1 |
| 42.5° | 868.7 | 971.0 | 1166.5 | 1362.1 | 1448.0 | 1533.9 | 1433.3 | 1332.6 | 1141.8 | 950.9 | 850.3 |
| 45° | 792.3 | 874.0 | 1051.6 | 1229.3 | 1311.0 | 1392.7 | 1306.2 | 1219.8 | 1051.6 | 883.5 | 789.6 |
| 47.5° | 720.6 | 790.7 | 942.5 | 1094.3 | 1167.1 | 1239.8 | 1172.3 | 1104.9 | 962.5 | 820.2 | 735.3 |
| 50° | 656.3 | 712.7 | 845.5 | 978.3 | 1041.6 | 1104.9 | 1045.3 | 985.7 | 868.7 | 751.7 | 677.9 |
| 52.5° | 600.4 | 646.3 | 757.5 | 868.7 | 923.0 | 977.3 | 926.2 | 875.0 | 782.3 | 689.5 | 625.2 |
| 55° | 545.0 | 584.1 | 680.5 | 777.0 | 813.9 | 850.8 | 811.2 | 771.7 | 696.9 | 622.0 | 567.7 |
| 57.5° | 493.4 | 528.2 | 607.2 | 686.3 | 714.8 | 743.2 | 707.4 | 671.6 | 615.2 | 558.8 | 513.4 |
| 60° | 442.8 | 471.2 | 537.1 | 603.0 | 620.4 | 637.8 | 608.8 | 579.8 | 540.3 | 500.8 | 460.2 |
| 62.5° | 395.9 | 421.7 | 470.7 | 519.7 | 531.3 | 542.9 | 520.8 | 498.7 | 468.6 | 438.6 | 406.9 |
| 65° | 347.4 | 366.9 | 406.9 | 447.0 | 454.4 | 461.8 | 442.3 | 422.8 | 400.1 | 377.4 | 354.2 |
| 67.5° | 302.6 | 316.3 | 349.0 | 381.6 | 382.2 | 382.7 | 366.9 | 351.1 | 338.4 | 325.8 | 307.3 |
| 70° | 258.8 | 272.0 | 293.6 | 315.2 | 315.7 | 316.3 | 303.6 | 291.0 | 281.5 | 272.0 | 258.3 |
| 72.5° | 214.0 | 223.5 | 239.8 | 256.2 | 255.1 | 254.1 | 246.2 | 238.3 | 230.9 | 223.5 | 213.5 |
| 75° | 173.4 | 181.3 | 192.4 | 203.5 | 200.3 | 197.1 | 192.9 | 188.7 | 182.4 | 176.1 | 169.7 |
| 77.5° | 136.5 | 141.3 | 147.6 | 153.9 | 151.8 | 149.7 | 146.0 | 142.3 | 137.6 | 132.8 | 130.2 |
| 80° | 100.2 | 102.3 | 106.5 | 110.7 | 109.6 | 108.6 | 104.4 | 100.2 | 99.1 | 98.0 | 94.4 |
| 82.5° | 68.0 | 70.6 | 71.7 | 72.7 | 72.2 | 71.7 | 68.5 | 65.4 | 64.3 | 63.3 | 62.7 |
| 85° | 40.6 | 41.1 | 41.6 | 42.2 | 40.6 | 39.0 | 38.0 | 36.9 | 36.9 | 36.9 | 36.4 |
| 87.5° | 18.4 | 19.0 | 19.0 | 19.0 | 18.4 | 17.9 | 16.9 | 15.8 | 16.3 | 16.9 | 16.9 |
| 90° | 16.8 | 14.1 | 11.5 | 9.1 | 7.1 | 5.0 | 3.0 | 0.9 | 3.0 | 5.0 | 7.1 |
| 92.5° | 36.2 | 35.0 | 33.7 | 32.5 | 31.3 | 30.1 | 28.8 | 27.6 | 28.8 | 30.1 | 31.3 |
| 95° | 64.8 | 63.2 | 61.6 | 60.0 | 58.6 | 57.2 | 55.7 | 54.3 | 55.7 | 57.2 | 58.6 |
| 97.5° | 97.0 | 95.7 | 94.5 | 93.4 | 92.3 | 91.3 | 90.3 | 89.3 | 90.3 | 91.3 | 92.3 |
| 100° | 133.3 | 132.2 | 131.2 | 130.1 | 128.9 | 127.6 | 126.4 | 125.2 | 126.4 | 127.6 | 128.9 |
| 102.5° | 172.9 | 171.5 | 170.1 | 169.1 | 168.4 | 167.8 | 167.2 | 166.6 | 167.2 | 167.8 | 168.4 |
| 105° | 213.5 | 211.7 | 209.9 | 208.7 | 208.3 | 207.9 | 207.5 | 207.1 | 207.5 | 207.9 | 208.3 |
| 107.5° | 257.9 | 257.1 | 256.3 | 255.8 | 255.6 | 255.4 | 255.2 | 255.0 | 255.2 | 255.4 | 255.6 |
| 110° | 302.0 | 301.6 | 301.2 | 300.8 | 300.4 | 300.0 | 299.5 | 299.1 | 299.5 | 300.0 | 300.4 |



TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 346.1 | 346.1 | 346.1 | 346.0 | 345.8 | 345.6 | 345.4 | 345.2 | 345.4 | 345.6 | 345.8 |
| 115° | 392.9 | 393.3 | 393.7 | 393.6 | 393.0 | 392.4 | 391.8 | 391.2 | 391.8 | 392.4 | 393.0 |
| 117.5° | 438.0 | 438.4 | 438.8 | 438.9 | 438.7 | 438.5 | 438.3 | 438.1 | 438.3 | 438.5 | 438.7 |
| 120° | 484.3 | 485.4 | 486.4 | 486.3 | 485.1 | 483.8 | 482.6 | 481.4 | 482.6 | 483.8 | 485.1 |
| 122.5° | 529.1 | 529.5 | 530.0 | 529.8 | 528.9 | 528.1 | 527.3 | 526.5 | 527.3 | 528.1 | 528.9 |
| 125° | 574.2 | 574.6 | 575.1 | 575.0 | 574.3 | 573.7 | 573.1 | 572.5 | 573.1 | 573.7 | 574.3 |
| 127.5° | 619.3 | 619.7 | 620.2 | 619.7 | 618.5 | 617.3 | 616.1 | 614.8 | 616.1 | 617.3 | 618.5 |
| 130° | 663.0 | 663.6 | 664.2 | 663.7 | 662.1 | 660.5 | 658.8 | 657.2 | 658.8 | 660.5 | 662.1 |
| 132.5° | 705.9 | 706.3 | 706.7 | 706.1 | 704.4 | 702.8 | 701.2 | 699.5 | 701.2 | 702.8 | 704.4 |
| 135° | 747.8 | 748.0 | 748.2 | 747.7 | 746.5 | 745.2 | 744.0 | 742.8 | 744.0 | 745.2 | 746.5 |
| 137.5° | 788.5 | 787.9 | 787.3 | 786.4 | 785.4 | 784.4 | 783.4 | 782.4 | 783.4 | 784.4 | 785.4 |
| 140° | 828.9 | 828.7 | 828.5 | 827.9 | 826.8 | 825.8 | 824.8 | 823.8 | 824.8 | 825.8 | 826.8 |
| 142.5° | 867.1 | 866.7 | 866.3 | 865.6 | 864.6 | 863.6 | 862.5 | 861.5 | 862.5 | 863.6 | 864.6 |
| 145° | 904.5 | 903.9 | 903.2 | 902.7 | 902.3 | 901.9 | 901.5 | 901.1 | 901.5 | 901.9 | 902.3 |
| 147.5° | 940.4 | 939.7 | 939.1 | 938.4 | 937.6 | 936.8 | 936.0 | 935.1 | 936.0 | 936.8 | 937.6 |
| 150° | 973.9 | 973.5 | 973.1 | 972.7 | 972.3 | 971.9 | 971.5 | 971.0 | 971.5 | 971.9 | 972.3 |
| 152.5° | 1003.8 | 1003.6 | 1003.4 | 1003.0 | 1002.3 | 1001.7 | 1001.1 | 1000.5 | 1001.1 | 1001.7 | 1002.3 |
| 155° | 1032.3 | 1032.1 | 1031.9 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 |
| 157.5° | 1058.1 | 1057.9 | 1057.7 | 1057.7 | 1057.9 | 1058.1 | 1058.3 | 1058.5 | 1058.3 | 1058.1 | 1057.9 |
| 160° | 1081.5 | 1081.5 | 1081.5 | 1081.7 | 1082.1 | 1082.5 | 1082.9 | 1083.3 | 1082.9 | 1082.5 | 1082.1 |
| 162.5° | 1103.2 | 1103.0 | 1102.8 | 1103.0 | 1103.6 | 1104.2 | 1104.8 | 1105.4 | 1104.8 | 1104.2 | 1103.6 |
| 165° | 1121.1 | 1121.1 | 1121.1 | 1121.4 | 1122.0 | 1122.6 | 1123.2 | 1123.8 | 1123.2 | 1122.6 | 1122.0 |
| 167.5° | 1136.3 | 1136.1 | 1135.9 | 1136.2 | 1137.0 | 1137.8 | 1138.7 | 1139.5 | 1138.7 | 1137.8 | 1137.0 |
| 170° | 1148.7 | 1148.7 | 1148.7 | 1149.1 | 1149.9 | 1150.7 | 1151.5 | 1152.4 | 1151.5 | 1150.7 | 1149.9 |
| 172.5° | 1158.8 | 1158.8 | 1158.8 | 1159.2 | 1160.0 | 1160.9 | 1161.7 | 1162.5 | 1161.7 | 1160.9 | 1160.0 |
| 175° | 1165.3 | 1165.3 | 1165.3 | 1165.7 | 1166.5 | 1167.3 | 1168.1 | 1168.9 | 1168.1 | 1167.3 | 1166.5 |
| 177.5° | 1168.9 | 1168.9 | 1168.9 | 1169.3 | 1170.2 | 1171.0 | 1171.8 | 1172.6 | 1171.8 | 1171.0 | 1170.2 |
| 180° | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 |



TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 | 2271.9 |
| 2.5° | 2180.2 | 2159.6 | 2139.1 | 2123.3 | 2107.4 | 2080.6 | 2053.7 | 2047.4 | 2041.0 | 2032.1 | 2023.1 |
| 5° | 2067.4 | 2016.8 | 1966.2 | 1920.8 | 1875.5 | 1840.2 | 1804.9 | 1781.7 | 1758.5 | 1741.6 | 1724.8 |
| 7.5° | 1935.6 | 1859.7 | 1783.8 | 1730.0 | 1676.3 | 1625.1 | 1574.0 | 1557.7 | 1541.3 | 1519.2 | 1497.0 |
| 10° | 1808.0 | 1724.2 | 1640.4 | 1570.3 | 1500.2 | 1450.1 | 1400.0 | 1380.0 | 1360.0 | 1332.0 | 1304.1 |
| 12.5° | 1694.2 | 1602.5 | 1510.7 | 1440.1 | 1369.5 | 1321.0 | 1272.5 | 1243.5 | 1214.5 | 1198.7 | 1182.9 |
| 15° | 1575.0 | 1477.0 | 1379.0 | 1313.6 | 1248.2 | 1204.5 | 1160.7 | 1135.4 | 1110.1 | 1094.8 | 1079.6 |
| 17.5° | 1469.6 | 1372.6 | 1275.6 | 1212.9 | 1150.2 | 1110.1 | 1070.1 | 1047.9 | 1025.8 | 1014.2 | 1002.6 |
| 20° | 1369.5 | 1274.6 | 1179.7 | 1118.6 | 1057.4 | 1024.7 | 992.0 | 977.8 | 963.6 | 954.1 | 944.6 |
| 22.5° | 1277.7 | 1184.4 | 1091.1 | 1039.0 | 986.8 | 960.4 | 934.1 | 924.0 | 914.0 | 906.1 | 898.2 |
| 25° | 1186.0 | 1102.7 | 1019.5 | 975.2 | 930.9 | 909.3 | 887.7 | 877.7 | 867.6 | 859.7 | 851.8 |
| 27.5° | 1111.2 | 1031.6 | 952.0 | 914.0 | 876.1 | 859.2 | 842.3 | 834.4 | 826.5 | 819.2 | 811.8 |
| 30° | 1038.4 | 967.3 | 896.1 | 863.4 | 830.7 | 815.5 | 800.2 | 792.3 | 784.4 | 777.5 | 770.7 |
| 32.5° | 971.0 | 909.8 | 848.7 | 818.6 | 788.6 | 775.9 | 763.3 | 753.8 | 744.3 | 739.0 | 733.8 |
| 35° | 906.7 | 851.8 | 797.0 | 772.2 | 747.5 | 734.8 | 722.2 | 714.3 | 706.3 | 702.1 | 697.9 |
| 37.5° | 851.8 | 802.8 | 753.8 | 730.1 | 706.3 | 694.2 | 682.1 | 675.2 | 668.4 | 666.8 | 665.2 |
| 40° | 796.0 | 753.8 | 711.6 | 688.4 | 665.2 | 654.7 | 644.1 | 639.9 | 635.7 | 634.7 | 633.6 |
| 42.5° | 749.6 | 708.5 | 667.3 | 646.3 | 625.2 | 616.2 | 607.2 | 605.1 | 603.0 | 604.6 | 606.2 |
| 45° | 695.8 | 661.5 | 627.3 | 607.8 | 588.3 | 580.9 | 573.5 | 571.9 | 570.3 | 573.5 | 576.7 |
| 47.5° | 650.5 | 618.8 | 587.2 | 568.8 | 550.3 | 545.0 | 539.8 | 539.2 | 538.7 | 542.9 | 547.2 |
| 50° | 604.1 | 573.5 | 542.9 | 528.2 | 513.4 | 508.7 | 503.9 | 505.5 | 507.1 | 513.9 | 520.8 |
| 52.5° | 560.9 | 532.4 | 503.9 | 490.2 | 476.5 | 473.4 | 470.2 | 473.9 | 477.6 | 485.0 | 492.3 |
| 55° | 513.4 | 487.6 | 461.8 | 451.2 | 440.7 | 437.5 | 434.4 | 441.7 | 449.1 | 456.0 | 462.8 |
| 57.5° | 468.1 | 445.4 | 422.8 | 413.3 | 403.8 | 403.3 | 402.7 | 409.6 | 416.4 | 423.8 | 431.2 |
| 60° | 419.6 | 400.6 | 381.6 | 374.3 | 366.9 | 367.9 | 369.0 | 376.9 | 384.8 | 390.6 | 396.4 |
| 62.5° | 375.3 | 359.5 | 343.7 | 336.8 | 330.0 | 332.6 | 335.3 | 343.2 | 351.1 | 357.9 | 364.8 |
| 65° | 331.0 | 317.9 | 304.7 | 299.9 | 295.2 | 298.9 | 302.6 | 309.4 | 316.3 | 321.0 | 325.8 |
| 67.5° | 288.9 | 277.8 | 266.7 | 263.0 | 259.3 | 263.0 | 266.7 | 273.6 | 280.4 | 285.2 | 289.9 |
| 70° | 244.6 | 235.6 | 226.7 | 224.0 | 221.4 | 225.6 | 229.8 | 235.6 | 241.4 | 246.2 | 250.9 |
| 72.5° | 203.5 | 196.6 | 189.8 | 189.2 | 188.7 | 192.4 | 196.1 | 201.9 | 207.7 | 210.8 | 214.0 |
| 75° | 163.4 | 159.7 | 156.0 | 155.5 | 155.0 | 158.7 | 162.4 | 165.5 | 168.7 | 171.3 | 174.0 |
| 77.5° | 127.6 | 124.4 | 121.2 | 121.8 | 122.3 | 124.9 | 127.6 | 130.7 | 133.9 | 135.5 | 137.1 |
| 80° | 90.7 | 89.6 | 88.6 | 89.6 | 90.7 | 92.8 | 94.9 | 97.0 | 99.1 | 100.2 | 101.2 |
| 82.5° | 62.2 | 61.1 | 60.1 | 61.7 | 63.3 | 64.8 | 66.4 | 68.0 | 69.6 | 70.1 | 70.6 |
| 85° | 35.8 | 37.4 | 39.0 | 39.0 | 39.0 | 39.5 | 40.1 | 40.6 | 41.1 | 40.6 | 40.1 |
| 87.5° | 16.9 | 17.4 | 17.9 | 17.9 | 17.9 | 18.4 | 19.0 | 19.0 | 19.0 | 18.4 | 17.9 |
| 90° | 9.1 | 11.5 | 14.1 | 16.8 | 19.4 | 22.1 | 22.9 | 23.7 | 24.5 | 25.4 | 26.0 |
| 92.5° | 32.5 | 33.7 | 35.0 | 36.2 | 37.4 | 38.7 | 39.3 | 39.9 | 40.5 | 41.1 | 41.2 |
| 95° | 60.0 | 61.6 | 63.2 | 64.8 | 66.5 | 68.1 | 68.9 | 69.7 | 70.6 | 71.4 | 71.8 |
| 97.5° | 93.4 | 94.5 | 95.7 | 97.0 | 98.2 | 99.4 | 100.4 | 101.5 | 102.5 | 103.5 | 103.9 |
| 100° | 130.1 | 131.2 | 132.2 | 133.3 | 134.3 | 135.3 | 135.9 | 136.5 | 137.1 | 137.8 | 138.3 |
| 102.5° | 169.1 | 170.1 | 171.5 | 172.9 | 174.4 | 175.8 | 176.4 | 177.0 | 177.6 | 178.3 | 178.5 |
| 105° | 208.7 | 209.9 | 211.7 | 213.5 | 215.4 | 217.2 | 217.2 | 217.2 | 217.2 | 217.2 | 217.4 |
| 107.5° | 255.8 | 256.3 | 257.1 | 257.9 | 258.7 | 259.6 | 260.2 | 260.8 | 261.4 | 262.0 | 262.2 |
| 110° | 300.8 | 301.2 | 301.6 | 302.0 | 302.4 | 302.8 | 303.6 | 304.5 | 305.3 | 306.1 | 306.3 |



TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 346.0 | 346.1 | 346.1 | 346.1 | 346.1 | 346.1 | 347.1 | 348.1 | 349.1 | 350.2 | 350.7 |
| 115° | 393.6 | 393.7 | 393.3 | 392.9 | 392.5 | 392.1 | 392.3 | 392.5 | 392.7 | 392.9 | 392.9 |
| 117.5° | 438.9 | 438.8 | 438.4 | 438.0 | 437.6 | 437.2 | 437.2 | 437.2 | 437.2 | 437.2 | 436.9 |
| 120° | 486.3 | 486.4 | 485.4 | 484.3 | 483.3 | 482.3 | 482.1 | 481.9 | 481.7 | 481.5 | 481.2 |
| 122.5° | 529.8 | 530.0 | 529.5 | 529.1 | 528.7 | 528.3 | 527.7 | 527.1 | 526.5 | 525.9 | 525.3 |
| 125° | 575.0 | 575.1 | 574.6 | 574.2 | 573.8 | 573.4 | 572.6 | 571.8 | 571.0 | 570.1 | 569.3 |
| 127.5° | 619.7 | 620.2 | 619.7 | 619.3 | 618.9 | 618.5 | 617.3 | 616.1 | 614.8 | 613.6 | 612.6 |
| 130° | 663.7 | 664.2 | 663.6 | 663.0 | 662.4 | 661.8 | 661.0 | 660.1 | 659.3 | 658.5 | 657.4 |
| 132.5° | 706.1 | 706.7 | 706.3 | 705.9 | 705.5 | 705.0 | 704.0 | 703.0 | 702.0 | 701.0 | 699.9 |
| 135° | 747.7 | 748.2 | 748.0 | 747.8 | 747.6 | 747.4 | 746.6 | 745.7 | 744.9 | 744.1 | 743.5 |
| 137.5° | 786.4 | 787.3 | 787.9 | 788.5 | 789.1 | 789.7 | 788.7 | 787.7 | 786.7 | 785.6 | 784.8 |
| 140° | 827.9 | 828.5 | 828.7 | 828.9 | 829.1 | 829.3 | 829.1 | 828.9 | 828.7 | 828.5 | 827.7 |
| 142.5° | 865.6 | 866.3 | 866.7 | 867.1 | 867.5 | 868.0 | 867.8 | 867.5 | 867.3 | 867.1 | 866.5 |
| 145° | 902.7 | 903.2 | 903.9 | 904.5 | 905.1 | 905.7 | 905.5 | 905.3 | 905.1 | 904.9 | 904.4 |
| 147.5° | 938.4 | 939.1 | 939.7 | 940.4 | 941.0 | 941.6 | 941.6 | 941.6 | 941.6 | 941.6 | 941.0 |
| 150° | 972.7 | 973.1 | 973.5 | 973.9 | 974.3 | 974.7 | 974.7 | 974.7 | 974.7 | 974.7 | 974.1 |
| 152.5° | 1003.0 | 1003.4 | 1003.6 | 1003.8 | 1004.0 | 1004.2 | 1004.6 | 1005.0 | 1005.4 | 1005.8 | 1005.5 |
| 155° | 1031.8 | 1031.9 | 1032.1 | 1032.3 | 1032.5 | 1032.7 | 1033.5 | 1034.3 | 1035.2 | 1036.0 | 1035.7 |
| 157.5° | 1057.7 | 1057.7 | 1057.9 | 1058.1 | 1058.3 | 1058.5 | 1059.3 | 1060.1 | 1060.9 | 1061.8 | 1061.6 |
| 160° | 1081.7 | 1081.5 | 1081.5 | 1081.5 | 1081.5 | 1081.5 | 1082.5 | 1083.5 | 1084.6 | 1085.6 | 1085.7 |
| 162.5° | 1103.0 | 1102.8 | 1103.0 | 1103.2 | 1103.4 | 1103.6 | 1104.6 | 1105.6 | 1106.7 | 1107.7 | 1107.5 |
| 165° | 1121.4 | 1121.1 | 1121.1 | 1121.1 | 1121.1 | 1121.1 | 1122.3 | 1123.5 | 1124.8 | 1126.0 | 1125.9 |
| 167.5° | 1136.2 | 1135.9 | 1136.1 | 1136.3 | 1136.5 | 1136.7 | 1137.9 | 1139.2 | 1140.4 | 1141.6 | 1141.6 |
| 170° | 1149.1 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1150.1 | 1151.5 | 1153.0 | 1154.4 | 1154.4 |
| 172.5° | 1159.2 | 1158.8 | 1158.8 | 1158.8 | 1158.8 | 1158.8 | 1160.0 | 1161.3 | 1162.5 | 1163.7 | 1163.6 |
| 175° | 1165.7 | 1165.3 | 1165.3 | 1165.3 | 1165.3 | 1165.3 | 1166.5 | 1167.7 | 1168.9 | 1170.2 | 1170.1 |
| 177.5° | 1169.3 | 1168.9 | 1168.9 | 1168.9 | 1168.9 | 1168.9 | 1170.2 | 1171.4 | 1172.6 | 1173.8 | 1173.7 |
| 180° | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 |



TEST NUMBER: P831085

CATALOG NUMBER: S123DIP-S1000D1195U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2271.9 | 2271.9 | 2271.9 | 2271.9 |
| 2.5° | 2019.4 | 2015.7 | 2001.0 | 1986.2 |
| 5° | 1712.1 | 1699.4 | 1695.2 | 1691.0 |
| 7.5° | 1496.0 | 1494.9 | 1472.8 | 1450.6 |
| 10° | 1305.7 | 1307.3 | 1287.2 | 1267.2 |
| 12.5° | 1169.7 | 1156.5 | 1154.9 | 1153.3 |
| 15° | 1067.4 | 1055.3 | 1053.2 | 1051.1 |
| 17.5° | 995.2 | 987.8 | 985.7 | 983.6 |
| 20° | 940.4 | 936.2 | 932.5 | 928.8 |
| 22.5° | 892.9 | 887.7 | 884.5 | 881.4 |
| 25° | 847.1 | 842.3 | 841.3 | 840.2 |
| 27.5° | 806.0 | 800.2 | 800.2 | 800.2 |
| 30° | 767.0 | 763.3 | 761.7 | 760.1 |
| 32.5° | 730.6 | 727.4 | 727.4 | 727.4 |
| 35° | 696.3 | 694.7 | 692.6 | 690.5 |
| 37.5° | 665.2 | 665.2 | 664.2 | 663.1 |
| 40° | 635.2 | 636.8 | 636.8 | 636.8 |
| 42.5° | 607.8 | 609.4 | 609.4 | 609.4 |
| 45° | 579.3 | 581.9 | 583.0 | 584.1 |
| 47.5° | 551.4 | 555.6 | 556.6 | 557.7 |
| 50° | 524.0 | 527.1 | 527.7 | 528.2 |
| 52.5° | 496.0 | 499.7 | 502.3 | 505.0 |
| 55° | 466.5 | 470.2 | 471.8 | 473.4 |
| 57.5° | 434.9 | 438.6 | 439.1 | 439.6 |
| 60° | 400.1 | 403.8 | 404.8 | 405.9 |
| 62.5° | 366.9 | 369.0 | 370.0 | 371.1 |
| 65° | 328.9 | 332.1 | 334.2 | 336.3 |
| 67.5° | 292.6 | 295.2 | 295.2 | 295.2 |
| 70° | 252.0 | 253.0 | 254.6 | 256.2 |
| 72.5° | 214.5 | 215.1 | 215.1 | 215.1 |
| 75° | 175.0 | 176.1 | 176.6 | 177.1 |
| 77.5° | 137.6 | 138.1 | 138.1 | 138.1 |
| 80° | 100.7 | 100.2 | 100.2 | 100.2 |
| 82.5° | 69.1 | 67.5 | 67.5 | 67.5 |
| 85° | 39.5 | 39.0 | 39.5 | 40.1 |
| 87.5° | 17.9 | 17.9 | 17.9 | 17.9 |
| 90° | 26.4 | 26.8 | 27.2 | 27.6 |
| 92.5° | 40.8 | 40.4 | 40.0 | 39.6 |
| 95° | 71.8 | 71.8 | 71.8 | 71.8 |
| 97.5° | 103.7 | 103.5 | 103.3 | 103.1 |
| 100° | 138.7 | 139.1 | 139.5 | 139.9 |
| 102.5° | 178.3 | 178.1 | 177.8 | 177.6 |
| 105° | 217.8 | 218.2 | 218.7 | 219.1 |
| 107.5° | 262.0 | 261.8 | 261.6 | 261.4 |
| 110° | 305.9 | 305.5 | 305.1 | 304.7 |



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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 350.7 | 350.7 | 350.7 | 350.7 |
| 115° | 392.7 | 392.5 | 392.3 | 392.1 |
| 117.5° | 436.3 | 435.7 | 435.1 | 434.4 |
| 120° | 480.8 | 480.4 | 479.9 | 479.5 |
| 122.5° | 524.6 | 524.0 | 523.4 | 522.8 |
| 125° | 568.5 | 567.7 | 566.9 | 566.1 |
| 127.5° | 611.8 | 611.0 | 610.1 | 609.3 |
| 130° | 656.0 | 654.5 | 653.1 | 651.7 |
| 132.5° | 698.9 | 697.9 | 696.9 | 695.8 |
| 135° | 743.1 | 742.7 | 742.3 | 741.9 |
| 137.5° | 784.2 | 783.6 | 783.0 | 782.4 |
| 140° | 826.2 | 824.8 | 823.4 | 821.9 |
| 142.5° | 865.5 | 864.5 | 863.5 | 862.4 |
| 145° | 903.5 | 902.7 | 901.9 | 901.1 |
| 147.5° | 939.7 | 938.5 | 937.3 | 936.1 |
| 150° | 972.9 | 971.7 | 970.4 | 969.2 |
| 152.5° | 1004.5 | 1003.5 | 1002.4 | 1001.4 |
| 155° | 1034.2 | 1032.8 | 1031.4 | 1030.0 |
| 157.5° | 1060.3 | 1059.1 | 1057.9 | 1056.6 |
| 160° | 1084.9 | 1084.1 | 1083.2 | 1082.4 |
| 162.5° | 1106.0 | 1104.6 | 1103.2 | 1101.7 |
| 165° | 1124.4 | 1123.0 | 1121.6 | 1120.2 |
| 167.5° | 1140.4 | 1139.2 | 1137.9 | 1136.7 |
| 170° | 1153.0 | 1151.5 | 1150.1 | 1148.7 |
| 172.5° | 1162.2 | 1160.8 | 1159.3 | 1157.9 |
| 175° | 1168.6 | 1167.2 | 1165.8 | 1164.3 |
| 177.5° | 1172.3 | 1170.9 | 1169.4 | 1168.0 |
| 180° | 1171.7 | 1171.7 | 1171.7 | 1171.7 |



TEST NUMBER: P831085

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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 14.95 | 15.80 | 15.89 | 16.75 | 17.98 | 17.18 | 18.03 | 18.12 | 18.98 | 20.22 |
| | 3H | 16.59 | 17.35 | 17.54 | 18.31 | 19.57 | 18.61 | 19.37 | 19.56 | 20.33 | 21.58 |
| | 4H | 17.17 | 17.89 | 18.14 | 18.85 | 20.12 | 19.06 | 19.78 | 20.02 | 20.74 | 22.00 |
| | 6H | 17.54 | 18.20 | 18.52 | 19.17 | 20.45 | 19.33 | 19.99 | 20.31 | 20.96 | 22.24 |
| | 8H | 17.64 | 18.27 | 18.62 | 19.25 | 20.53 | 19.39 | 20.02 | 20.38 | 21.01 | 22.28 |
| | 12H | 17.68 | 18.28 | 18.67 | 19.26 | 20.56 | 19.41 | 20.01 | 20.40 | 20.99 | 22.29 |
| 4H | 2H | 15.52 | 16.24 | 16.49 | 17.20 | 18.47 | 17.35 | 18.07 | 18.32 | 19.03 | 20.29 |
| | 3H | 17.35 | 17.95 | 18.33 | 18.94 | 20.22 | 18.96 | 19.56 | 19.94 | 20.56 | 21.83 |
| | 4H | 18.05 | 18.59 | 19.03 | 19.58 | 20.88 | 19.55 | 20.09 | 20.54 | 21.08 | 22.38 |
| | 6H | 18.52 | 18.99 | 19.52 | 20.00 | 21.30 | 19.95 | 20.42 | 20.95 | 21.43 | 22.73 |
| | 8H | 18.66 | 19.10 | 19.66 | 20.10 | 21.41 | 20.06 | 20.50 | 21.06 | 21.51 | 22.82 |
| | 12H | 18.72 | 19.12 | 19.74 | 20.14 | 21.46 | 20.11 | 20.50 | 21.13 | 21.52 | 22.84 |
| 8H | 4H | 18.31 | 18.75 | 19.31 | 19.75 | 21.07 | 19.65 | 20.09 | 20.65 | 21.09 | 22.41 |
| | 6H | 18.90 | 19.26 | 19.93 | 20.31 | 21.62 | 20.15 | 20.52 | 21.18 | 21.56 | 22.87 |
| | 8H | 19.11 | 19.43 | 20.14 | 20.46 | 21.79 | 20.33 | 20.65 | 21.37 | 21.69 | 23.02 |
| | 12H | 19.23 | 19.51 | 20.27 | 20.54 | 21.91 | 20.44 | 20.72 | 21.47 | 21.74 | 23.12 |
| 12H | 4H | 18.31 | 18.71 | 19.33 | 19.73 | 21.05 | 19.63 | 20.02 | 20.65 | 21.04 | 22.36 |
| | 6H | 18.95 | 19.27 | 19.98 | 20.30 | 21.63 | 20.17 | 20.49 | 21.20 | 21.52 | 22.85 |
| | 8H | 19.18 | 19.46 | 20.22 | 20.49 | 21.87 | 20.37 | 20.65 | 21.40 | 21.67 | 23.05 |