

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: P831158

Luminaire Tested: S123DIP-S1000D805U835-4F0-1E-UDD-G4

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831158
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D805U835-4F0-1E-UDD-G4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: -

Summary

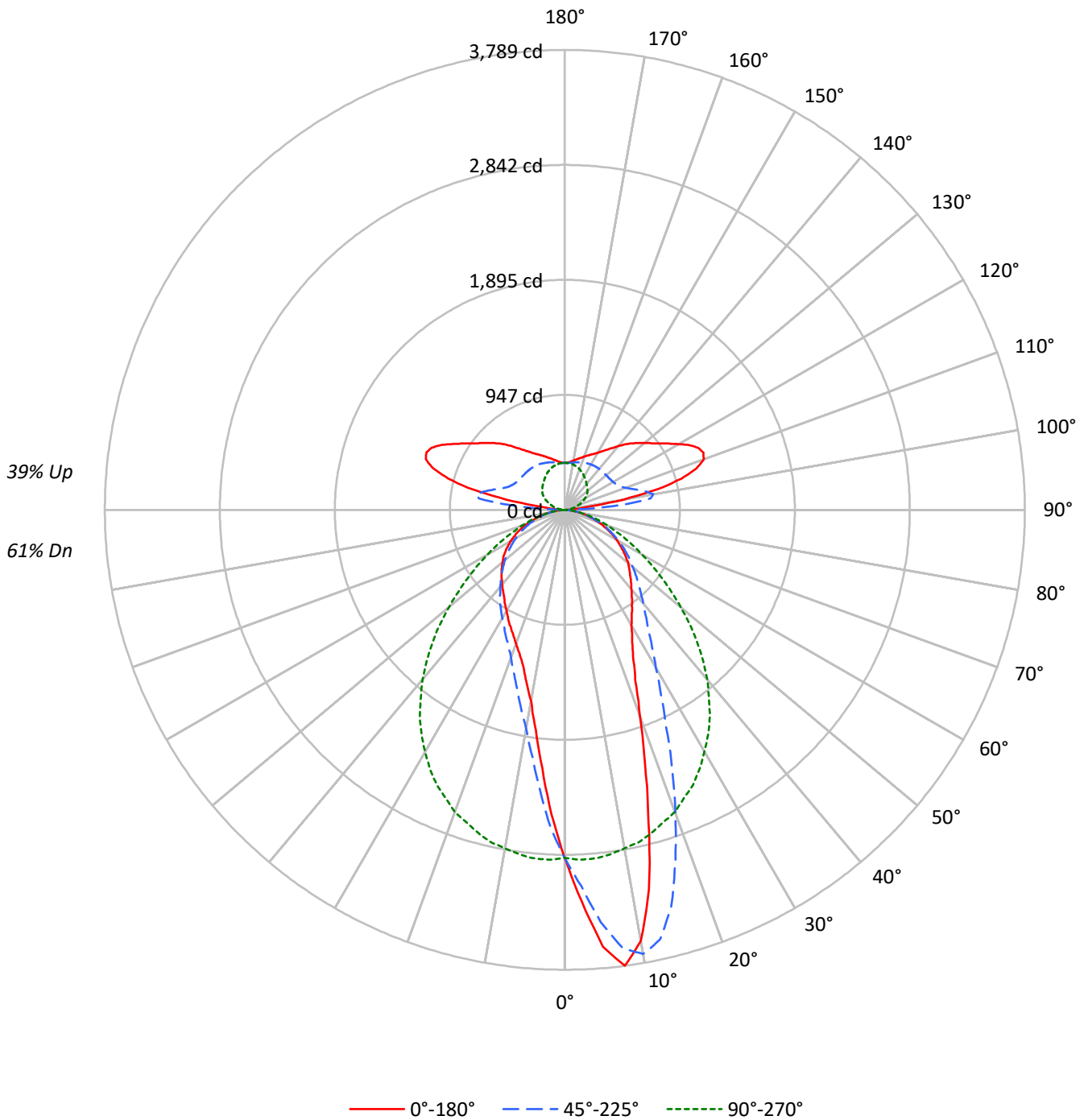
Lumens per Lamp: N/A
Luminaire Lumens: 7517.5 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

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: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

Luminous Intensity Polar Plot





TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 61 | | | | |
| 1 | 101 | 97 | 93 | 90 | 94 | 91 | 88 | 85 | 80 | 77 | 75 | 69 | 68 | 66 | 60 | 59 | 57 | 53 | | | | |
| 2 | 92 | 85 | 79 | 74 | 86 | 80 | 75 | 71 | 71 | 67 | 63 | 62 | 59 | 56 | 53 | 51 | 49 | 45 | | | | |
| 3 | 85 | 76 | 69 | 63 | 79 | 71 | 65 | 60 | 63 | 58 | 54 | 55 | 52 | 48 | 48 | 45 | 43 | 39 | | | | |
| 4 | 78 | 68 | 60 | 54 | 73 | 64 | 57 | 52 | 57 | 51 | 47 | 50 | 46 | 42 | 44 | 40 | 38 | 35 | | | | |
| 5 | 72 | 61 | 53 | 47 | 67 | 57 | 50 | 45 | 51 | 45 | 41 | 45 | 41 | 37 | 40 | 36 | 34 | 31 | | | | |
| 6 | 67 | 55 | 47 | 41 | 63 | 52 | 45 | 40 | 47 | 41 | 36 | 41 | 37 | 33 | 36 | 33 | 30 | 27 | | | | |
| 7 | 62 | 50 | 42 | 37 | 58 | 48 | 40 | 35 | 43 | 37 | 33 | 38 | 33 | 30 | 34 | 30 | 27 | 25 | | | | |
| 8 | 58 | 46 | 38 | 33 | 54 | 44 | 37 | 32 | 39 | 34 | 29 | 35 | 30 | 27 | 31 | 28 | 25 | 23 | | | | |
| 9 | 54 | 42 | 35 | 30 | 51 | 40 | 33 | 29 | 36 | 31 | 27 | 33 | 28 | 25 | 29 | 25 | 23 | 21 | | | | |
| 10 | 51 | 39 | 32 | 27 | 48 | 37 | 31 | 26 | 34 | 28 | 25 | 30 | 26 | 23 | 27 | 24 | 21 | 19 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 30870 | 30870 | 30870 | 30870 | 30870 |
| 5° | 39041 | 36847 | 31147 | 25099 | 23064 |
| 10° | 39419 | 40611 | 30938 | 20007 | 17484 |
| 15° | 29690 | 37706 | 30729 | 16944 | 14785 |
| 20° | 20686 | 30511 | 30336 | 14818 | 13431 |
| 25° | 15775 | 23464 | 29667 | 13632 | 12598 |
| 30° | 13646 | 18641 | 28599 | 12795 | 11926 |
| 35° | 12661 | 15738 | 27367 | 12189 | 11454 |
| 40° | 11987 | 14119 | 25638 | 11612 | 11294 |
| 45° | 11587 | 13067 | 23440 | 11163 | 11224 |
| 50° | 11387 | 12234 | 20837 | 10752 | 11164 |
| 55° | 10963 | 11626 | 18282 | 10365 | 11213 |
| 60° | 10572 | 10973 | 15756 | 10000 | 11031 |
| 65° | 9931 | 10356 | 13593 | 9610 | 10812 |
| 70° | 9171 | 9571 | 11560 | 8963 | 10178 |
| 75° | 8301 | 8580 | 9906 | 8330 | 9299 |
| 80° | 6850 | 7507 | 7835 | 7259 | 7835 |
| 85° | 5422 | 6076 | 5755 | 6163 | 6249 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 26761 cd/sqm



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 271.1 | 3.6 |
| 10°-20° | 674.5 | 9.0 |
| 20°-30° | 798.7 | 10.6 |
| 30°-40° | 803.0 | 10.7 |
| 40°-50° | 736.8 | 9.8 |
| 50°-60° | 608.1 | 8.1 |
| 60°-70° | 430.2 | 5.7 |
| 70°-80° | 229.6 | 3.1 |
| 80°-90° | 60.4 | 0.8 |
| 90°-100° | 209.6 | 2.8 |
| 100°-110° | 613.6 | 8.2 |
| 110°-120° | 599.2 | 8.0 |
| 120°-130° | 477.2 | 6.3 |
| 130°-140° | 376.5 | 5.0 |
| 140°-150° | 280.9 | 3.7 |
| 150°-160° | 195.8 | 2.6 |
| 160°-170° | 115.0 | 1.5 |
| 170°-180° | 37.4 | 0.5 |
| 0°-30° | 1744.3 | 23.2 |
| 0°-40° | 2547.3 | 33.9 |
| 0°-60° | 3892.2 | 51.8 |
| 0°-90° | 4612.4 | 61.4 |
| 90°-120° | 1422.4 | 18.9 |
| 90°-150° | 2556.9 | 34.0 |
| 90°-180° | 2905.0 | 38.6 |
| 0°-180° | 7517.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2868 | 2868 | 2868 | 2868 | 2868 | |
| 5° | 3613 | 3410 | 2883 | 2323 | 2135 | 344 |
| 15° | 2664 | 3384 | 2758 | 1520 | 1327 | 736 |
| 25° | 1328 | 1976 | 2498 | 1148 | 1061 | 627 |
| 35° | 964 | 1198 | 2083 | 928 | 872 | 605 |
| 45° | 761 | 858 | 1540 | 733 | 737 | 590 |
| 55° | 584 | 620 | 974 | 552 | 598 | 523 |
| 65° | 390 | 407 | 534 | 377 | 424 | 387 |
| 75° | 200 | 206 | 238 | 200 | 224 | 210 |
| 85° | 44 | 49 | 47 | 50 | 51 | 49 |
| 90° | 23 | 20 | 2 | 20 | 23 | 15 |
| 95° | 91 | 464 | 27 | 464 | 91 | 147 |
| 105° | 994 | 629 | 91 | 629 | 994 | 992 |
| 115° | 1210 | 481 | 160 | 481 | 1210 | 1179 |
| 125° | 954 | 449 | 223 | 449 | 954 | 863 |
| 135° | 773 | 442 | 261 | 442 | 773 | 600 |
| 145° | 604 | 437 | 298 | 437 | 604 | 384 |
| 155° | 501 | 423 | 338 | 423 | 501 | 233 |
| 165° | 437 | 405 | 370 | 405 | 437 | 125 |
| 175° | 393 | 389 | 385 | 389 | 393 | 38 |
| 180° | 386 | 386 | 386 | 386 | 386 | |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 |
| 2.5° | 3232.6 | 3229.2 | 3225.9 | 3209.3 | 3192.6 | 3184.6 | 3176.7 | 3152.7 | 3128.8 | 3102.1 | 3075.5 |
| 5° | 3613.2 | 3622.5 | 3631.8 | 3621.2 | 3610.5 | 3577.9 | 3545.3 | 3502.0 | 3458.8 | 3410.2 | 3361.6 |
| 7.5° | 3788.8 | 3794.2 | 3799.5 | 3792.8 | 3786.2 | 3777.5 | 3768.9 | 3730.3 | 3691.7 | 3641.8 | 3591.9 |
| 10° | 3606.5 | 3618.5 | 3630.5 | 3656.4 | 3682.4 | 3711.6 | 3740.9 | 3735.6 | 3730.3 | 3715.6 | 3701.0 |
| 12.5° | 3205.9 | 3220.6 | 3235.2 | 3287.1 | 3339.0 | 3405.6 | 3472.1 | 3529.3 | 3586.6 | 3626.5 | 3666.4 |
| 15° | 2664.3 | 2704.9 | 2745.5 | 2792.7 | 2840.0 | 2937.8 | 3035.6 | 3156.0 | 3276.5 | 3383.6 | 3490.7 |
| 17.5° | 2194.5 | 2209.8 | 2225.1 | 2275.7 | 2326.3 | 2449.4 | 2572.5 | 2711.5 | 2850.6 | 3028.3 | 3205.9 |
| 20° | 1805.9 | 1819.9 | 1833.9 | 1900.4 | 1966.9 | 2063.4 | 2159.9 | 2316.3 | 2472.7 | 2663.6 | 2854.6 |
| 22.5° | 1517.1 | 1539.1 | 1561.0 | 1598.3 | 1635.6 | 1728.1 | 1820.6 | 1959.6 | 2098.7 | 2309.6 | 2520.6 |
| 25° | 1328.2 | 1344.1 | 1360.1 | 1382.7 | 1405.3 | 1479.2 | 1553.1 | 1667.5 | 1782.0 | 1975.6 | 2169.2 |
| 27.5° | 1199.1 | 1205.7 | 1212.4 | 1235.0 | 1257.6 | 1305.5 | 1353.4 | 1451.9 | 1550.4 | 1714.8 | 1879.1 |
| 30° | 1097.9 | 1102.6 | 1107.2 | 1127.2 | 1147.2 | 1179.8 | 1212.4 | 1283.6 | 1354.8 | 1499.8 | 1644.9 |
| 32.5° | 1027.4 | 1030.7 | 1034.0 | 1049.3 | 1064.7 | 1087.9 | 1111.2 | 1163.1 | 1215.0 | 1334.8 | 1454.6 |
| 35° | 963.5 | 965.5 | 967.5 | 978.8 | 990.1 | 1007.4 | 1024.7 | 1064.0 | 1103.2 | 1197.7 | 1292.2 |
| 37.5° | 907.6 | 910.3 | 912.9 | 919.6 | 926.2 | 941.6 | 956.9 | 988.1 | 1019.4 | 1091.9 | 1164.5 |
| 40° | 853.1 | 857.7 | 862.4 | 867.0 | 871.7 | 884.3 | 897.0 | 920.9 | 944.9 | 1004.8 | 1064.7 |
| 42.5° | 806.5 | 811.1 | 815.8 | 817.8 | 819.8 | 827.1 | 834.4 | 856.4 | 878.3 | 922.9 | 967.5 |
| 45° | 761.2 | 763.2 | 765.2 | 767.2 | 769.2 | 775.2 | 781.2 | 800.5 | 819.8 | 858.4 | 897.0 |
| 47.5° | 720.0 | 720.0 | 720.0 | 721.3 | 722.6 | 728.0 | 733.3 | 747.3 | 761.2 | 791.2 | 821.1 |
| 50° | 680.0 | 680.0 | 680.0 | 678.1 | 676.1 | 679.4 | 682.7 | 693.4 | 704.0 | 730.6 | 757.2 |
| 52.5° | 632.1 | 632.1 | 632.1 | 632.8 | 633.5 | 633.5 | 633.5 | 642.8 | 652.1 | 676.1 | 700.0 |
| 55° | 584.2 | 586.9 | 589.6 | 587.6 | 585.6 | 586.9 | 588.2 | 594.2 | 600.2 | 619.5 | 638.8 |
| 57.5° | 536.3 | 537.7 | 539.0 | 538.3 | 537.7 | 538.3 | 539.0 | 544.3 | 549.6 | 564.3 | 578.9 |
| 60° | 491.1 | 491.1 | 491.1 | 489.7 | 488.4 | 489.7 | 491.1 | 493.7 | 496.4 | 509.7 | 523.0 |
| 62.5° | 440.5 | 441.2 | 441.8 | 442.5 | 443.2 | 441.8 | 440.5 | 443.8 | 447.2 | 457.1 | 467.1 |
| 65° | 389.9 | 390.6 | 391.3 | 393.3 | 395.3 | 393.9 | 392.6 | 395.9 | 399.2 | 406.6 | 413.9 |
| 67.5° | 344.7 | 343.4 | 342.0 | 342.7 | 343.4 | 345.3 | 347.3 | 348.0 | 348.7 | 356.7 | 364.6 |
| 70° | 291.4 | 292.8 | 294.1 | 293.4 | 292.8 | 293.4 | 294.1 | 296.1 | 298.1 | 304.1 | 310.1 |
| 72.5° | 243.5 | 244.2 | 244.9 | 244.9 | 244.9 | 246.2 | 247.5 | 249.5 | 251.5 | 254.9 | 258.2 |
| 75° | 199.6 | 199.6 | 199.6 | 201.0 | 202.3 | 202.9 | 203.6 | 203.6 | 203.6 | 206.3 | 208.9 |
| 77.5° | 151.7 | 155.0 | 158.4 | 157.7 | 157.0 | 158.4 | 159.7 | 161.7 | 163.7 | 165.0 | 166.4 |
| 80° | 110.5 | 110.5 | 110.5 | 111.1 | 111.8 | 113.8 | 115.8 | 117.1 | 118.4 | 121.1 | 123.8 |
| 82.5° | 70.5 | 71.2 | 71.9 | 73.9 | 75.9 | 77.2 | 78.5 | 80.5 | 82.5 | 82.5 | 82.5 |
| 85° | 43.9 | 42.6 | 41.3 | 42.6 | 43.9 | 45.2 | 46.6 | 47.2 | 47.9 | 49.2 | 50.6 |
| 87.5° | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 22.0 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 |
| 90° | 22.7 | 23.5 | 22.7 | 21.9 | 22.7 | 21.1 | 20.3 | 19.5 | 18.8 | 19.5 | 17.2 |
| 92.5° | 41.4 | 43.0 | 42.2 | 45.3 | 46.9 | 52.4 | 60.2 | 77.4 | 108.7 | 145.4 | 161.1 |
| 95° | 90.7 | 93.8 | 99.3 | 106.3 | 121.2 | 149.3 | 190.8 | 281.5 | 376.1 | 463.6 | 412.8 |
| 97.5° | 186.1 | 194.7 | 213.4 | 243.1 | 295.5 | 384.7 | 487.9 | 646.6 | 737.3 | 713.0 | 532.4 |
| 100° | 490.2 | 489.4 | 519.9 | 577.0 | 655.9 | 767.0 | 858.4 | 921.8 | 894.4 | 740.4 | 500.4 |
| 102.5° | 776.3 | 799.0 | 823.3 | 865.5 | 922.5 | 982.7 | 1026.5 | 1013.2 | 902.2 | 689.6 | 453.5 |
| 105° | 994.5 | 998.4 | 1023.4 | 1053.1 | 1089.1 | 1109.4 | 1094.5 | 1016.4 | 853.0 | 628.6 | 416.7 |
| 107.5° | 1136.8 | 1145.4 | 1155.5 | 1169.6 | 1174.3 | 1153.2 | 1092.2 | 969.5 | 782.6 | 574.6 | 390.1 |
| 110° | 1218.1 | 1219.6 | 1221.2 | 1214.9 | 1193.1 | 1138.3 | 1039.8 | 896.0 | 716.9 | 530.1 | 376.1 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 112.5° | 1234.5 | 1233.7 | 1225.9 | 1203.2 | 1158.7 | 1084.4 | 971.0 | 823.3 | 659.9 | 500.4 | 368.2 |
| 115° | 1209.5 | 1205.6 | 1189.9 | 1155.5 | 1096.9 | 1011.7 | 896.7 | 760.7 | 616.1 | 480.8 | 367.5 |
| 117.5° | 1154.7 | 1149.3 | 1125.8 | 1087.5 | 1026.5 | 938.2 | 832.6 | 712.2 | 587.1 | 467.5 | 368.2 |
| 120° | 1082.8 | 1078.1 | 1059.4 | 1015.6 | 953.8 | 874.9 | 781.0 | 675.5 | 565.3 | 458.9 | 371.4 |
| 122.5° | 1015.6 | 1009.3 | 988.2 | 949.9 | 896.7 | 824.8 | 739.6 | 646.6 | 547.3 | 453.5 | 376.8 |
| 125° | 953.8 | 948.3 | 928.8 | 894.4 | 844.4 | 781.8 | 706.8 | 621.5 | 532.4 | 448.8 | 382.3 |
| 127.5° | 900.7 | 896.0 | 878.0 | 848.3 | 802.9 | 745.1 | 676.3 | 598.9 | 518.3 | 446.4 | 388.6 |
| 130° | 856.9 | 850.6 | 834.2 | 806.1 | 764.6 | 711.5 | 648.1 | 577.8 | 507.4 | 444.1 | 394.8 |
| 132.5° | 813.9 | 810.0 | 795.9 | 767.7 | 729.4 | 679.4 | 621.5 | 558.2 | 497.2 | 443.3 | 399.5 |
| 135° | 773.2 | 767.7 | 753.7 | 730.2 | 691.9 | 647.3 | 596.5 | 541.0 | 488.6 | 442.5 | 404.2 |
| 137.5° | 730.2 | 725.5 | 713.8 | 689.6 | 656.7 | 616.9 | 571.5 | 524.6 | 480.8 | 440.9 | 407.3 |
| 140° | 684.9 | 685.7 | 673.1 | 651.3 | 621.5 | 587.9 | 550.4 | 510.5 | 473.8 | 440.2 | 410.5 |
| 142.5° | 642.7 | 643.4 | 632.5 | 613.7 | 589.5 | 561.3 | 530.1 | 497.2 | 467.5 | 438.6 | 412.8 |
| 145° | 604.3 | 602.8 | 596.5 | 580.1 | 560.6 | 537.9 | 512.9 | 487.1 | 462.1 | 437.0 | 413.6 |
| 147.5° | 571.5 | 570.7 | 564.5 | 552.7 | 537.1 | 520.7 | 499.6 | 478.5 | 456.6 | 434.7 | 413.6 |
| 150° | 543.4 | 543.4 | 538.7 | 530.1 | 518.3 | 503.5 | 487.1 | 469.1 | 451.1 | 431.6 | 413.6 |
| 152.5° | 519.9 | 519.9 | 517.6 | 509.7 | 501.1 | 489.4 | 475.3 | 460.5 | 444.9 | 427.7 | 411.2 |
| 155° | 501.1 | 500.4 | 498.8 | 492.5 | 485.5 | 476.1 | 464.4 | 451.9 | 438.6 | 423.0 | 409.7 |
| 157.5° | 483.2 | 483.2 | 481.6 | 476.9 | 470.7 | 462.8 | 453.5 | 442.5 | 431.6 | 419.1 | 407.3 |
| 160° | 466.0 | 466.7 | 466.7 | 462.1 | 456.6 | 451.1 | 443.3 | 434.7 | 424.5 | 414.4 | 405.8 |
| 162.5° | 450.3 | 451.1 | 451.1 | 447.2 | 444.1 | 439.4 | 432.3 | 425.3 | 417.5 | 409.7 | 402.6 |
| 165° | 437.0 | 437.0 | 437.8 | 434.7 | 431.6 | 427.7 | 422.2 | 417.5 | 411.2 | 405.0 | 399.5 |
| 167.5° | 423.7 | 423.7 | 424.5 | 422.2 | 420.6 | 417.5 | 414.4 | 410.5 | 405.0 | 400.3 | 396.4 |
| 170° | 412.0 | 412.0 | 412.8 | 411.2 | 410.5 | 408.9 | 405.8 | 403.4 | 399.5 | 395.6 | 393.3 |
| 172.5° | 401.1 | 401.9 | 403.4 | 401.9 | 401.9 | 401.1 | 398.7 | 397.2 | 394.0 | 391.7 | 390.9 |
| 175° | 393.3 | 394.0 | 394.8 | 394.0 | 394.0 | 394.0 | 392.5 | 391.7 | 390.1 | 388.6 | 388.6 |
| 177.5° | 387.8 | 387.8 | 389.3 | 388.6 | 389.3 | 389.3 | 388.6 | 387.8 | 387.0 | 386.2 | 387.0 |
| 180° | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 |
| 2.5° | 3067.5 | 3059.5 | 3030.3 | 3001.0 | 2967.7 | 2934.5 | 2909.8 | 2885.2 | 2848.6 | 2812.0 | 2782.1 |
| 5° | 3324.4 | 3287.1 | 3225.2 | 3163.4 | 3079.5 | 2995.7 | 2939.1 | 2882.6 | 2806.7 | 2730.8 | 2670.3 |
| 7.5° | 3528.0 | 3464.1 | 3377.6 | 3291.1 | 3181.3 | 3071.5 | 2967.7 | 2863.9 | 2748.1 | 2632.4 | 2537.9 |
| 10° | 3657.8 | 3614.5 | 3514.7 | 3414.9 | 3267.8 | 3120.8 | 2975.7 | 2830.6 | 2681.6 | 2532.5 | 2407.4 |
| 12.5° | 3670.4 | 3674.4 | 3582.6 | 3490.7 | 3324.4 | 3158.0 | 2981.7 | 2805.4 | 2617.7 | 2430.1 | 2284.3 |
| 15° | 3559.3 | 3627.8 | 3577.2 | 3526.7 | 3359.0 | 3191.3 | 2974.4 | 2757.5 | 2541.2 | 2324.9 | 2156.6 |
| 17.5° | 3353.0 | 3500.0 | 3507.4 | 3514.7 | 3347.0 | 3179.3 | 2939.1 | 2698.9 | 2454.0 | 2209.2 | 2032.2 |
| 20° | 3071.5 | 3288.4 | 3363.0 | 3437.5 | 3301.1 | 3164.7 | 2906.5 | 2648.3 | 2374.2 | 2100.0 | 1914.4 |
| 22.5° | 2784.1 | 3047.6 | 3184.0 | 3320.4 | 3219.2 | 3118.1 | 2843.3 | 2568.5 | 2279.0 | 1989.6 | 1801.3 |
| 25° | 2456.7 | 2744.1 | 2953.7 | 3163.4 | 3101.5 | 3039.6 | 2768.8 | 2497.9 | 2189.9 | 1881.8 | 1689.5 |
| 27.5° | 2171.2 | 2463.3 | 2716.2 | 2969.1 | 2955.7 | 2942.4 | 2673.6 | 2404.8 | 2089.4 | 1774.0 | 1588.3 |
| 30° | 1917.0 | 2189.2 | 2472.0 | 2754.8 | 2787.4 | 2820.0 | 2560.5 | 2301.0 | 1984.9 | 1668.8 | 1489.8 |
| 32.5° | 1692.1 | 1929.7 | 2233.1 | 2536.5 | 2600.4 | 2664.3 | 2430.1 | 2195.8 | 1883.1 | 1570.4 | 1398.0 |
| 35° | 1507.8 | 1723.4 | 2026.8 | 2330.3 | 2410.1 | 2490.0 | 2286.3 | 2082.7 | 1778.0 | 1473.2 | 1308.9 |
| 37.5° | 1344.8 | 1525.1 | 1821.2 | 2117.3 | 2215.1 | 2313.0 | 2130.6 | 1948.3 | 1662.9 | 1377.4 | 1226.3 |
| 40° | 1209.7 | 1354.8 | 1626.9 | 1899.1 | 2012.2 | 2125.3 | 1974.9 | 1824.6 | 1553.7 | 1282.9 | 1143.8 |
| 42.5° | 1096.6 | 1225.7 | 1472.5 | 1719.4 | 1827.9 | 1936.3 | 1809.2 | 1682.2 | 1441.3 | 1200.4 | 1073.3 |
| 45° | 1000.1 | 1103.2 | 1327.5 | 1551.7 | 1654.9 | 1758.0 | 1648.9 | 1539.8 | 1327.5 | 1115.2 | 996.8 |
| 47.5° | 909.6 | 998.1 | 1189.8 | 1381.4 | 1473.2 | 1565.0 | 1479.9 | 1394.7 | 1215.0 | 1035.4 | 928.2 |
| 50° | 828.4 | 899.6 | 1067.3 | 1235.0 | 1314.8 | 1394.7 | 1319.5 | 1244.3 | 1096.6 | 948.9 | 855.7 |
| 52.5° | 757.9 | 815.8 | 956.2 | 1096.6 | 1165.1 | 1233.7 | 1169.1 | 1104.6 | 987.5 | 870.4 | 789.2 |
| 55° | 688.0 | 737.3 | 859.0 | 980.8 | 1027.4 | 1074.0 | 1024.1 | 974.2 | 879.7 | 785.2 | 716.6 |
| 57.5° | 622.8 | 666.7 | 766.6 | 866.4 | 902.3 | 938.2 | 893.0 | 847.7 | 776.5 | 705.3 | 648.1 |
| 60° | 558.9 | 594.9 | 678.1 | 761.2 | 783.2 | 805.1 | 768.5 | 731.9 | 682.0 | 632.1 | 580.9 |
| 62.5° | 499.7 | 532.3 | 594.2 | 656.1 | 670.7 | 685.4 | 657.4 | 629.5 | 591.5 | 553.6 | 513.7 |
| 65° | 438.5 | 463.1 | 513.7 | 564.3 | 573.6 | 582.9 | 558.3 | 533.7 | 505.0 | 476.4 | 447.2 |
| 67.5° | 381.9 | 399.2 | 440.5 | 481.8 | 482.4 | 483.1 | 463.1 | 443.2 | 427.2 | 411.2 | 387.9 |
| 70° | 326.7 | 343.4 | 370.6 | 397.9 | 398.6 | 399.2 | 383.3 | 367.3 | 355.3 | 343.4 | 326.1 |
| 72.5° | 270.2 | 282.1 | 302.8 | 323.4 | 322.1 | 320.7 | 310.7 | 300.8 | 291.4 | 282.1 | 269.5 |
| 75° | 218.9 | 228.9 | 242.9 | 256.8 | 252.9 | 248.9 | 243.5 | 238.2 | 230.2 | 222.2 | 214.3 |
| 77.5° | 172.3 | 178.3 | 186.3 | 194.3 | 191.6 | 189.0 | 184.3 | 179.7 | 173.7 | 167.7 | 164.4 |
| 80° | 126.4 | 129.1 | 134.4 | 139.7 | 138.4 | 137.1 | 131.8 | 126.4 | 125.1 | 123.8 | 119.1 |
| 82.5° | 85.8 | 89.2 | 90.5 | 91.8 | 91.2 | 90.5 | 86.5 | 82.5 | 81.2 | 79.8 | 79.2 |
| 85° | 51.2 | 51.9 | 52.6 | 53.2 | 51.2 | 49.2 | 47.9 | 46.6 | 46.6 | 46.6 | 45.9 |
| 87.5° | 23.3 | 24.0 | 24.0 | 24.0 | 23.3 | 22.6 | 21.3 | 20.0 | 20.6 | 21.3 | 21.3 |
| 90° | 14.9 | 12.5 | 10.2 | 8.6 | 7.0 | 4.7 | 3.1 | 1.6 | 3.1 | 4.7 | 7.0 |
| 92.5° | 120.4 | 79.0 | 53.9 | 39.9 | 32.1 | 25.0 | 17.2 | 11.7 | 17.2 | 25.0 | 32.1 |
| 95° | 284.6 | 168.1 | 101.6 | 71.1 | 50.8 | 37.5 | 28.9 | 26.6 | 28.9 | 37.5 | 50.8 |
| 97.5° | 316.6 | 181.4 | 115.7 | 82.1 | 61.8 | 50.0 | 43.0 | 42.2 | 43.0 | 50.0 | 61.8 |
| 100° | 294.7 | 179.0 | 124.3 | 93.8 | 75.1 | 64.1 | 58.6 | 57.9 | 58.6 | 64.1 | 75.1 |
| 102.5° | 276.0 | 182.2 | 134.5 | 107.1 | 90.7 | 80.5 | 75.8 | 74.3 | 75.8 | 80.5 | 90.7 |
| 105° | 268.9 | 188.4 | 146.2 | 122.0 | 107.1 | 97.7 | 93.0 | 90.7 | 93.0 | 97.7 | 107.1 |
| 107.5° | 267.4 | 198.6 | 161.1 | 138.4 | 124.3 | 114.9 | 110.2 | 107.9 | 110.2 | 114.9 | 124.3 |
| 110° | 271.3 | 211.9 | 176.7 | 154.8 | 141.5 | 132.9 | 129.0 | 126.7 | 129.0 | 132.9 | 141.5 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 279.1 | 225.2 | 193.1 | 172.0 | 158.7 | 150.1 | 146.2 | 143.9 | 146.2 | 150.1 | 158.7 |
| 115° | 287.7 | 240.0 | 210.3 | 189.2 | 175.9 | 168.1 | 163.4 | 160.3 | 163.4 | 168.1 | 175.9 |
| 117.5° | 298.7 | 255.7 | 225.9 | 206.4 | 191.5 | 184.5 | 180.6 | 176.7 | 180.6 | 184.5 | 191.5 |
| 120° | 311.2 | 270.5 | 242.4 | 222.8 | 208.0 | 200.1 | 196.2 | 193.9 | 196.2 | 200.1 | 208.0 |
| 122.5° | 322.9 | 286.1 | 258.8 | 237.7 | 223.6 | 215.0 | 211.1 | 208.7 | 211.1 | 215.0 | 223.6 |
| 125° | 335.4 | 301.0 | 273.6 | 252.5 | 237.7 | 229.1 | 224.4 | 222.8 | 224.4 | 229.1 | 237.7 |
| 127.5° | 345.6 | 314.3 | 287.7 | 266.6 | 250.2 | 241.6 | 236.1 | 233.8 | 236.1 | 241.6 | 250.2 |
| 130° | 355.7 | 326.0 | 300.2 | 279.1 | 262.7 | 253.3 | 246.3 | 243.9 | 246.3 | 253.3 | 262.7 |
| 132.5° | 365.1 | 336.2 | 311.2 | 290.8 | 274.4 | 262.7 | 254.9 | 251.7 | 254.9 | 262.7 | 274.4 |
| 135° | 372.9 | 346.3 | 322.1 | 301.0 | 284.6 | 272.9 | 264.3 | 261.1 | 264.3 | 272.9 | 284.6 |
| 137.5° | 379.2 | 353.4 | 329.9 | 310.4 | 294.0 | 281.5 | 272.9 | 269.7 | 272.9 | 281.5 | 294.0 |
| 140° | 383.9 | 360.4 | 337.7 | 318.2 | 302.6 | 290.1 | 282.2 | 278.3 | 282.2 | 290.1 | 302.6 |
| 142.5° | 388.6 | 365.9 | 344.0 | 326.0 | 310.4 | 299.4 | 290.8 | 287.7 | 290.8 | 299.4 | 310.4 |
| 145° | 391.7 | 370.6 | 350.3 | 332.3 | 319.0 | 307.3 | 300.2 | 297.9 | 300.2 | 307.3 | 319.0 |
| 147.5° | 394.0 | 374.5 | 355.7 | 340.1 | 326.8 | 316.6 | 309.6 | 308.0 | 309.6 | 316.6 | 326.8 |
| 150° | 394.8 | 378.4 | 360.4 | 346.3 | 335.4 | 325.2 | 319.0 | 318.2 | 319.0 | 325.2 | 335.4 |
| 152.5° | 396.4 | 380.7 | 365.9 | 352.6 | 343.2 | 334.6 | 328.4 | 328.4 | 328.4 | 334.6 | 343.2 |
| 155° | 396.4 | 383.9 | 370.6 | 359.6 | 351.0 | 343.2 | 338.5 | 338.5 | 338.5 | 343.2 | 351.0 |
| 157.5° | 397.2 | 385.4 | 374.5 | 365.9 | 358.1 | 351.0 | 347.1 | 346.3 | 347.1 | 351.0 | 358.1 |
| 160° | 397.2 | 387.8 | 378.4 | 370.6 | 365.1 | 358.9 | 355.7 | 355.7 | 355.7 | 358.9 | 365.1 |
| 162.5° | 396.4 | 388.6 | 380.7 | 374.5 | 369.8 | 365.1 | 362.8 | 362.8 | 362.8 | 365.1 | 369.8 |
| 165° | 394.8 | 389.3 | 383.1 | 377.6 | 374.5 | 370.6 | 369.0 | 369.8 | 369.0 | 370.6 | 374.5 |
| 167.5° | 394.0 | 389.3 | 384.7 | 380.7 | 378.4 | 375.3 | 374.5 | 375.3 | 374.5 | 375.3 | 378.4 |
| 170° | 391.7 | 388.6 | 384.7 | 383.1 | 381.5 | 379.2 | 378.4 | 380.0 | 378.4 | 379.2 | 381.5 |
| 172.5° | 390.9 | 388.6 | 385.4 | 384.7 | 383.9 | 382.3 | 382.3 | 383.1 | 382.3 | 382.3 | 383.9 |
| 175° | 389.3 | 387.8 | 386.2 | 385.4 | 385.4 | 383.9 | 384.7 | 385.4 | 384.7 | 383.9 | 385.4 |
| 177.5° | 388.6 | 387.0 | 386.2 | 386.2 | 386.2 | 385.4 | 386.2 | 387.0 | 386.2 | 385.4 | 386.2 |
| 180° | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 | 2867.9 |
| 2.5° | 2752.1 | 2726.2 | 2700.2 | 2680.3 | 2660.3 | 2626.4 | 2592.4 | 2584.4 | 2576.5 | 2565.2 | 2553.8 |
| 5° | 2609.7 | 2545.9 | 2482.0 | 2424.7 | 2367.5 | 2322.9 | 2278.4 | 2249.1 | 2219.8 | 2198.5 | 2177.2 |
| 7.5° | 2443.4 | 2347.6 | 2251.7 | 2183.9 | 2116.0 | 2051.5 | 1986.9 | 1966.3 | 1945.7 | 1917.7 | 1889.8 |
| 10° | 2282.4 | 2176.6 | 2070.8 | 1982.3 | 1893.8 | 1830.5 | 1767.3 | 1742.0 | 1716.8 | 1681.5 | 1646.2 |
| 12.5° | 2138.6 | 2022.8 | 1907.1 | 1817.9 | 1728.7 | 1667.5 | 1606.3 | 1569.7 | 1533.1 | 1513.1 | 1493.2 |
| 15° | 1988.2 | 1864.5 | 1740.7 | 1658.2 | 1575.7 | 1520.5 | 1465.2 | 1433.3 | 1401.4 | 1382.1 | 1362.8 |
| 17.5° | 1855.2 | 1732.7 | 1610.3 | 1531.1 | 1451.9 | 1401.4 | 1350.8 | 1322.8 | 1294.9 | 1280.2 | 1265.6 |
| 20° | 1728.7 | 1609.0 | 1489.2 | 1412.0 | 1334.8 | 1293.6 | 1252.3 | 1234.3 | 1216.4 | 1204.4 | 1192.4 |
| 22.5° | 1613.0 | 1495.2 | 1377.4 | 1311.5 | 1245.6 | 1212.4 | 1179.1 | 1166.5 | 1153.8 | 1143.8 | 1133.9 |
| 25° | 1497.2 | 1392.0 | 1286.9 | 1231.0 | 1175.1 | 1147.8 | 1120.5 | 1107.9 | 1095.3 | 1085.3 | 1075.3 |
| 27.5° | 1402.7 | 1302.2 | 1201.7 | 1153.8 | 1105.9 | 1084.6 | 1063.3 | 1053.3 | 1043.4 | 1034.0 | 1024.7 |
| 30° | 1310.9 | 1221.0 | 1131.2 | 1089.9 | 1048.7 | 1029.4 | 1010.1 | 1000.1 | 990.1 | 981.5 | 972.8 |
| 32.5° | 1225.7 | 1148.5 | 1071.3 | 1033.4 | 995.5 | 979.5 | 963.5 | 951.5 | 939.6 | 932.9 | 926.2 |
| 35° | 1144.5 | 1075.3 | 1006.1 | 974.8 | 943.5 | 927.6 | 911.6 | 901.6 | 891.6 | 886.3 | 881.0 |
| 37.5° | 1075.3 | 1013.4 | 951.5 | 921.6 | 891.6 | 876.3 | 861.0 | 852.4 | 843.7 | 841.7 | 839.7 |
| 40° | 1004.8 | 951.5 | 898.3 | 869.0 | 839.7 | 826.4 | 813.1 | 807.8 | 802.5 | 801.2 | 799.8 |
| 42.5° | 946.2 | 894.3 | 842.4 | 815.8 | 789.2 | 777.9 | 766.6 | 763.9 | 761.2 | 763.2 | 765.2 |
| 45° | 878.3 | 835.1 | 791.8 | 767.2 | 742.6 | 733.3 | 724.0 | 722.0 | 720.0 | 724.0 | 728.0 |
| 47.5° | 821.1 | 781.2 | 741.3 | 718.0 | 694.7 | 688.0 | 681.4 | 680.7 | 680.0 | 685.4 | 690.7 |
| 50° | 762.6 | 724.0 | 685.4 | 666.7 | 648.1 | 642.1 | 636.1 | 638.1 | 640.1 | 648.8 | 657.4 |
| 52.5° | 708.0 | 672.1 | 636.1 | 618.8 | 601.5 | 597.5 | 593.5 | 598.2 | 602.9 | 612.2 | 621.5 |
| 55° | 648.1 | 615.5 | 582.9 | 569.6 | 556.3 | 552.3 | 548.3 | 557.6 | 566.9 | 575.6 | 584.2 |
| 57.5° | 590.9 | 562.3 | 533.7 | 521.7 | 509.7 | 509.0 | 508.4 | 517.0 | 525.7 | 535.0 | 544.3 |
| 60° | 529.7 | 505.7 | 481.8 | 472.4 | 463.1 | 464.5 | 465.8 | 475.8 | 485.7 | 493.1 | 500.4 |
| 62.5° | 473.8 | 453.8 | 433.8 | 425.2 | 416.5 | 419.9 | 423.2 | 433.2 | 443.2 | 451.8 | 460.5 |
| 65° | 417.9 | 401.2 | 384.6 | 378.6 | 372.6 | 377.3 | 381.9 | 390.6 | 399.2 | 405.2 | 411.2 |
| 67.5° | 364.6 | 350.7 | 336.7 | 332.0 | 327.4 | 332.0 | 336.7 | 345.3 | 354.0 | 360.0 | 366.0 |
| 70° | 308.7 | 297.4 | 286.1 | 282.8 | 279.5 | 284.8 | 290.1 | 297.4 | 304.8 | 310.7 | 316.7 |
| 72.5° | 256.8 | 248.2 | 239.5 | 238.9 | 238.2 | 242.9 | 247.5 | 254.9 | 262.2 | 266.2 | 270.2 |
| 75° | 206.3 | 201.6 | 197.0 | 196.3 | 195.6 | 200.3 | 204.9 | 208.9 | 212.9 | 216.3 | 219.6 |
| 77.5° | 161.0 | 157.0 | 153.0 | 153.7 | 154.4 | 157.7 | 161.0 | 165.0 | 169.0 | 171.0 | 173.0 |
| 80° | 114.5 | 113.1 | 111.8 | 113.1 | 114.5 | 117.1 | 119.8 | 122.4 | 125.1 | 126.4 | 127.8 |
| 82.5° | 78.5 | 77.2 | 75.9 | 77.9 | 79.8 | 81.8 | 83.8 | 85.8 | 87.8 | 88.5 | 89.2 |
| 85° | 45.2 | 47.2 | 49.2 | 49.2 | 49.2 | 49.9 | 50.6 | 51.2 | 51.9 | 51.2 | 50.6 |
| 87.5° | 21.3 | 22.0 | 22.6 | 22.6 | 22.6 | 23.3 | 24.0 | 24.0 | 24.0 | 23.3 | 22.6 |
| 90° | 8.6 | 10.2 | 12.5 | 14.9 | 17.2 | 19.5 | 18.8 | 19.5 | 20.3 | 21.1 | 22.7 |
| 92.5° | 39.9 | 53.9 | 79.0 | 120.4 | 161.1 | 145.4 | 108.7 | 77.4 | 60.2 | 52.4 | 46.9 |
| 95° | 71.1 | 101.6 | 168.1 | 284.6 | 412.8 | 463.6 | 376.1 | 281.5 | 190.8 | 149.3 | 121.2 |
| 97.5° | 82.1 | 115.7 | 181.4 | 316.6 | 532.4 | 713.0 | 737.3 | 646.6 | 487.9 | 384.7 | 295.5 |
| 100° | 93.8 | 124.3 | 179.0 | 294.7 | 500.4 | 740.4 | 894.4 | 921.8 | 858.4 | 767.0 | 655.9 |
| 102.5° | 107.1 | 134.5 | 182.2 | 276.0 | 453.5 | 689.6 | 902.2 | 1013.2 | 1026.5 | 982.7 | 922.5 |
| 105° | 122.0 | 146.2 | 188.4 | 268.9 | 416.7 | 628.6 | 853.0 | 1016.4 | 1094.5 | 1109.4 | 1089.1 |
| 107.5° | 138.4 | 161.1 | 198.6 | 267.4 | 390.1 | 574.6 | 782.6 | 969.5 | 1092.2 | 1153.2 | 1174.3 |
| 110° | 154.8 | 176.7 | 211.9 | 271.3 | 376.1 | 530.1 | 716.9 | 896.0 | 1039.8 | 1138.3 | 1193.1 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 172.0 | 193.1 | 225.2 | 279.1 | 368.2 | 500.4 | 659.9 | 823.3 | 971.0 | 1084.4 | 1158.7 |
| 115° | 189.2 | 210.3 | 240.0 | 287.7 | 367.5 | 480.8 | 616.1 | 760.7 | 896.7 | 1011.7 | 1096.9 |
| 117.5° | 206.4 | 225.9 | 255.7 | 298.7 | 368.2 | 467.5 | 587.1 | 712.2 | 832.6 | 938.2 | 1026.5 |
| 120° | 222.8 | 242.4 | 270.5 | 311.2 | 371.4 | 458.9 | 565.3 | 675.5 | 781.0 | 874.9 | 953.8 |
| 122.5° | 237.7 | 258.8 | 286.1 | 322.9 | 376.8 | 453.5 | 547.3 | 646.6 | 739.6 | 824.8 | 896.7 |
| 125° | 252.5 | 273.6 | 301.0 | 335.4 | 382.3 | 448.8 | 532.4 | 621.5 | 706.8 | 781.8 | 844.4 |
| 127.5° | 266.6 | 287.7 | 314.3 | 345.6 | 388.6 | 446.4 | 518.3 | 598.9 | 676.3 | 745.1 | 802.9 |
| 130° | 279.1 | 300.2 | 326.0 | 355.7 | 394.8 | 444.1 | 507.4 | 577.8 | 648.1 | 711.5 | 764.6 |
| 132.5° | 290.8 | 311.2 | 336.2 | 365.1 | 399.5 | 443.3 | 497.2 | 558.2 | 621.5 | 679.4 | 729.4 |
| 135° | 301.0 | 322.1 | 346.3 | 372.9 | 404.2 | 442.5 | 488.6 | 541.0 | 596.5 | 647.3 | 691.9 |
| 137.5° | 310.4 | 329.9 | 353.4 | 379.2 | 407.3 | 440.9 | 480.8 | 524.6 | 571.5 | 616.9 | 656.7 |
| 140° | 318.2 | 337.7 | 360.4 | 383.9 | 410.5 | 440.2 | 473.8 | 510.5 | 550.4 | 587.9 | 621.5 |
| 142.5° | 326.0 | 344.0 | 365.9 | 388.6 | 412.8 | 438.6 | 467.5 | 497.2 | 530.1 | 561.3 | 589.5 |
| 145° | 332.3 | 350.3 | 370.6 | 391.7 | 413.6 | 437.0 | 462.1 | 487.1 | 512.9 | 537.9 | 560.6 |
| 147.5° | 340.1 | 355.7 | 374.5 | 394.0 | 413.6 | 434.7 | 456.6 | 478.5 | 499.6 | 520.7 | 537.1 |
| 150° | 346.3 | 360.4 | 378.4 | 394.8 | 413.6 | 431.6 | 451.1 | 469.1 | 487.1 | 503.5 | 518.3 |
| 152.5° | 352.6 | 365.9 | 380.7 | 396.4 | 411.2 | 427.7 | 444.9 | 460.5 | 475.3 | 489.4 | 501.1 |
| 155° | 359.6 | 370.6 | 383.9 | 396.4 | 409.7 | 423.0 | 438.6 | 451.9 | 464.4 | 476.1 | 485.5 |
| 157.5° | 365.9 | 374.5 | 385.4 | 397.2 | 407.3 | 419.1 | 431.6 | 442.5 | 453.5 | 462.8 | 470.7 |
| 160° | 370.6 | 378.4 | 387.8 | 397.2 | 405.8 | 414.4 | 424.5 | 434.7 | 443.3 | 451.1 | 456.6 |
| 162.5° | 374.5 | 380.7 | 388.6 | 396.4 | 402.6 | 409.7 | 417.5 | 425.3 | 432.3 | 439.4 | 444.1 |
| 165° | 377.6 | 383.1 | 389.3 | 394.8 | 399.5 | 405.0 | 411.2 | 417.5 | 422.2 | 427.7 | 431.6 |
| 167.5° | 380.7 | 384.7 | 389.3 | 394.0 | 396.4 | 400.3 | 405.0 | 410.5 | 414.4 | 417.5 | 420.6 |
| 170° | 383.1 | 384.7 | 388.6 | 391.7 | 393.3 | 395.6 | 399.5 | 403.4 | 405.8 | 408.9 | 410.5 |
| 172.5° | 384.7 | 385.4 | 388.6 | 390.9 | 390.9 | 391.7 | 394.0 | 397.2 | 398.7 | 401.1 | 401.9 |
| 175° | 385.4 | 386.2 | 387.8 | 389.3 | 388.6 | 388.6 | 390.1 | 391.7 | 392.5 | 394.0 | 394.0 |
| 177.5° | 386.2 | 386.2 | 387.0 | 388.6 | 387.0 | 386.2 | 387.0 | 387.8 | 388.6 | 389.3 | 389.3 |
| 180° | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 | 386.2 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2867.9 | 2867.9 | 2867.9 | 2867.9 |
| 2.5° | 2549.2 | 2544.5 | 2525.9 | 2507.3 |
| 5° | 2161.2 | 2145.3 | 2140.0 | 2134.6 |
| 7.5° | 1888.4 | 1887.1 | 1859.2 | 1831.2 |
| 10° | 1648.2 | 1650.2 | 1624.9 | 1599.6 |
| 12.5° | 1476.5 | 1459.9 | 1457.9 | 1455.9 |
| 15° | 1347.5 | 1332.1 | 1329.5 | 1326.8 |
| 17.5° | 1256.3 | 1247.0 | 1244.3 | 1241.7 |
| 20° | 1187.1 | 1181.8 | 1177.1 | 1172.5 |
| 22.5° | 1127.2 | 1120.5 | 1116.6 | 1112.6 |
| 25° | 1069.3 | 1063.3 | 1062.0 | 1060.7 |
| 27.5° | 1017.4 | 1010.1 | 1010.1 | 1010.1 |
| 30° | 968.2 | 963.5 | 961.5 | 959.5 |
| 32.5° | 922.3 | 918.3 | 918.3 | 918.3 |
| 35° | 879.0 | 877.0 | 874.3 | 871.7 |
| 37.5° | 839.7 | 839.7 | 838.4 | 837.1 |
| 40° | 801.8 | 803.8 | 803.8 | 803.8 |
| 42.5° | 767.2 | 769.2 | 769.2 | 769.2 |
| 45° | 731.3 | 734.6 | 735.9 | 737.3 |
| 47.5° | 696.0 | 701.3 | 702.7 | 704.0 |
| 50° | 661.4 | 665.4 | 666.1 | 666.7 |
| 52.5° | 626.1 | 630.8 | 634.1 | 637.5 |
| 55° | 588.9 | 593.5 | 595.5 | 597.5 |
| 57.5° | 549.0 | 553.6 | 554.3 | 555.0 |
| 60° | 505.0 | 509.7 | 511.0 | 512.4 |
| 62.5° | 463.1 | 465.8 | 467.1 | 468.4 |
| 65° | 415.2 | 419.2 | 421.9 | 424.5 |
| 67.5° | 369.3 | 372.6 | 372.6 | 372.6 |
| 70° | 318.1 | 319.4 | 321.4 | 323.4 |
| 72.5° | 270.8 | 271.5 | 271.5 | 271.5 |
| 75° | 220.9 | 222.2 | 222.9 | 223.6 |
| 77.5° | 173.7 | 174.3 | 174.3 | 174.3 |
| 80° | 127.1 | 126.4 | 126.4 | 126.4 |
| 82.5° | 87.2 | 85.2 | 85.2 | 85.2 |
| 85° | 49.9 | 49.2 | 49.9 | 50.6 |
| 87.5° | 22.6 | 22.6 | 22.6 | 22.6 |
| 90° | 21.9 | 22.7 | 23.5 | 22.7 |
| 92.5° | 45.3 | 42.2 | 43.0 | 41.4 |
| 95° | 106.3 | 99.3 | 93.8 | 90.7 |
| 97.5° | 243.1 | 213.4 | 194.7 | 186.1 |
| 100° | 577.0 | 519.9 | 489.4 | 490.2 |
| 102.5° | 865.5 | 823.3 | 799.0 | 776.3 |
| 105° | 1053.1 | 1023.4 | 998.4 | 994.5 |
| 107.5° | 1169.6 | 1155.5 | 1145.4 | 1136.8 |
| 110° | 1214.9 | 1221.2 | 1219.6 | 1218.1 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 1203.2 | 1225.9 | 1233.7 | 1234.5 |
| 115° | 1155.5 | 1189.9 | 1205.6 | 1209.5 |
| 117.5° | 1087.5 | 1125.8 | 1149.3 | 1154.7 |
| 120° | 1015.6 | 1059.4 | 1078.1 | 1082.8 |
| 122.5° | 949.9 | 988.2 | 1009.3 | 1015.6 |
| 125° | 894.4 | 928.8 | 948.3 | 953.8 |
| 127.5° | 848.3 | 878.0 | 896.0 | 900.7 |
| 130° | 806.1 | 834.2 | 850.6 | 856.9 |
| 132.5° | 767.7 | 795.9 | 810.0 | 813.9 |
| 135° | 730.2 | 753.7 | 767.7 | 773.2 |
| 137.5° | 689.6 | 713.8 | 725.5 | 730.2 |
| 140° | 651.3 | 673.1 | 685.7 | 684.9 |
| 142.5° | 613.7 | 632.5 | 643.4 | 642.7 |
| 145° | 580.1 | 596.5 | 602.8 | 604.3 |
| 147.5° | 552.7 | 564.5 | 570.7 | 571.5 |
| 150° | 530.1 | 538.7 | 543.4 | 543.4 |
| 152.5° | 509.7 | 517.6 | 519.9 | 519.9 |
| 155° | 492.5 | 498.8 | 500.4 | 501.1 |
| 157.5° | 476.9 | 481.6 | 483.2 | 483.2 |
| 160° | 462.1 | 466.7 | 466.7 | 466.0 |
| 162.5° | 447.2 | 451.1 | 451.1 | 450.3 |
| 165° | 434.7 | 437.8 | 437.0 | 437.0 |
| 167.5° | 422.2 | 424.5 | 423.7 | 423.7 |
| 170° | 411.2 | 412.8 | 412.0 | 412.0 |
| 172.5° | 401.9 | 403.4 | 401.9 | 401.1 |
| 175° | 394.0 | 394.8 | 394.0 | 393.3 |
| 177.5° | 388.6 | 389.3 | 387.8 | 387.8 |
| 180° | 386.2 | 386.2 | 386.2 | 386.2 |



TEST NUMBER: P831158

CATALOG NUMBER: S123DIP-S1000D805U835-4F0-1E-UDD-G4

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 | 16.48 | 17.41 | 17.35 | 18.29 | 19.39 | 18.72 | 19.65 | 19.58 | 20.52 | 21.63 |
| | 3H | 18.14 | 18.97 | 19.01 | 19.85 | 20.98 | 20.15 | 20.98 | 21.02 | 21.87 | 23.00 |
| | 4H | 18.72 | 19.50 | 19.61 | 20.39 | 21.53 | 20.60 | 21.39 | 21.49 | 22.28 | 23.42 |
| | 6H | 19.09 | 19.81 | 19.99 | 20.71 | 21.86 | 20.88 | 21.60 | 21.78 | 22.50 | 23.66 |
| | 8H | 19.19 | 19.87 | 20.10 | 20.79 | 21.94 | 20.95 | 21.63 | 21.86 | 22.55 | 23.70 |
| | 12H | 19.24 | 19.89 | 20.15 | 20.80 | 21.98 | 20.97 | 21.62 | 21.88 | 22.53 | 23.71 |
| 4H | 2H | 17.07 | 17.85 | 17.96 | 18.74 | 19.88 | 18.89 | 19.68 | 19.79 | 20.57 | 21.71 |
| | 3H | 18.90 | 19.55 | 19.81 | 20.48 | 21.63 | 20.52 | 21.17 | 21.42 | 22.09 | 23.25 |
| | 4H | 19.60 | 20.20 | 20.52 | 21.12 | 22.30 | 21.10 | 21.70 | 22.02 | 22.62 | 23.80 |
| | 6H | 20.08 | 20.59 | 21.01 | 21.54 | 22.72 | 21.51 | 22.02 | 22.44 | 22.97 | 24.15 |
| | 8H | 20.22 | 20.70 | 21.15 | 21.63 | 22.83 | 21.62 | 22.10 | 22.56 | 23.04 | 24.23 |
| | 12H | 20.29 | 20.72 | 21.24 | 21.67 | 22.87 | 21.67 | 22.10 | 22.62 | 23.06 | 24.26 |
| 8H | 4H | 19.87 | 20.35 | 20.81 | 21.29 | 22.48 | 21.21 | 21.69 | 22.15 | 22.63 | 23.82 |
| | 6H | 20.46 | 20.86 | 21.42 | 21.84 | 23.03 | 21.72 | 22.11 | 22.68 | 23.09 | 24.29 |
| | 8H | 20.67 | 21.02 | 21.64 | 21.99 | 23.20 | 21.90 | 22.25 | 22.87 | 23.22 | 24.43 |
| | 12H | 20.80 | 21.10 | 21.77 | 22.07 | 23.33 | 22.00 | 22.31 | 22.97 | 23.27 | 24.53 |
| 12H | 4H | 19.88 | 20.31 | 20.83 | 21.26 | 22.46 | 21.19 | 21.62 | 22.14 | 22.58 | 23.78 |
| | 6H | 20.51 | 20.86 | 21.48 | 21.83 | 23.04 | 21.73 | 22.08 | 22.70 | 23.05 | 24.26 |
| | 8H | 20.75 | 21.06 | 21.72 | 22.02 | 23.28 | 21.94 | 22.24 | 22.91 | 23.20 | 24.47 |