

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: P831790

Luminaire Tested: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831790
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-S1000D1025U950-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

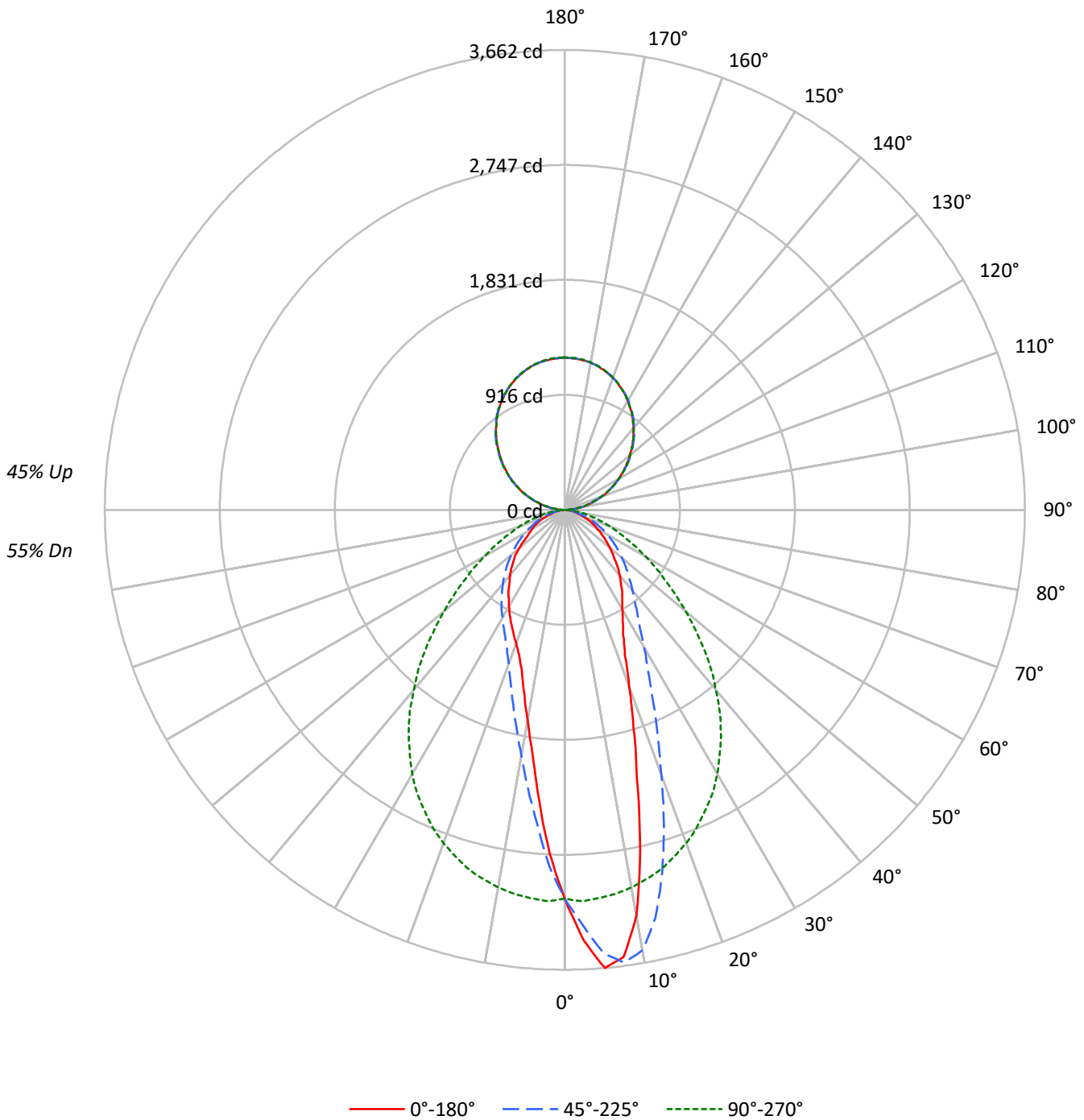
Lumens per Lamp: N/A
Luminaire Lumens: 7466.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61
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: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-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 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 | | | | |
| 1 | 100 | 96 | 92 | 89 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 65 | 64 | 62 | 55 | 54 | 53 | 48 | | | | |
| 2 | 92 | 85 | 79 | 74 | 85 | 79 | 74 | 70 | 68 | 65 | 62 | 59 | 56 | 54 | 50 | 48 | 46 | 42 | | | | |
| 3 | 84 | 75 | 68 | 63 | 78 | 70 | 64 | 60 | 61 | 57 | 53 | 53 | 49 | 47 | 45 | 42 | 40 | 37 | | | | |
| 4 | 78 | 67 | 60 | 54 | 72 | 63 | 57 | 52 | 55 | 50 | 46 | 48 | 44 | 41 | 41 | 38 | 36 | 32 | | | | |
| 5 | 72 | 61 | 53 | 47 | 67 | 57 | 50 | 45 | 50 | 45 | 41 | 43 | 39 | 36 | 37 | 34 | 32 | 29 | | | | |
| 6 | 67 | 55 | 47 | 42 | 62 | 52 | 45 | 40 | 46 | 40 | 36 | 40 | 36 | 32 | 34 | 31 | 29 | 26 | | | | |
| 7 | 62 | 50 | 43 | 37 | 58 | 47 | 40 | 36 | 42 | 36 | 32 | 37 | 32 | 29 | 32 | 29 | 26 | 24 | | | | |
| 8 | 58 | 46 | 39 | 33 | 54 | 43 | 37 | 32 | 38 | 33 | 29 | 34 | 30 | 27 | 30 | 26 | 24 | 22 | | | | |
| 9 | 54 | 42 | 35 | 30 | 50 | 40 | 34 | 29 | 36 | 30 | 27 | 31 | 27 | 24 | 28 | 24 | 22 | 20 | | | | |
| 10 | 51 | 39 | 32 | 28 | 47 | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 26 | 23 | 20 | 18 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 33322 | 33322 | 33322 | 33322 | 33322 |
| 5° | 39566 | 38305 | 33532 | 27107 | 25166 |
| 10° | 35848 | 38907 | 33365 | 21718 | 18631 |
| 15° | 24682 | 33360 | 33013 | 17751 | 14739 |
| 20° | 17171 | 25684 | 32349 | 14968 | 12954 |
| 25° | 13085 | 19574 | 31385 | 13303 | 11940 |
| 30° | 11390 | 15649 | 30179 | 12352 | 11059 |
| 35° | 10457 | 13201 | 28470 | 11550 | 10257 |
| 40° | 9542 | 11789 | 26235 | 10763 | 9524 |
| 45° | 8617 | 10782 | 23823 | 10018 | 8791 |
| 50° | 7822 | 9947 | 20979 | 9289 | 7886 |
| 55° | 7075 | 9135 | 18246 | 8574 | 6765 |
| 60° | 6340 | 8308 | 15849 | 7787 | 6394 |
| 65° | 5850 | 7371 | 13642 | 6999 | 6046 |
| 70° | 4752 | 6370 | 11903 | 6332 | 4913 |
| 75° | 4171 | 5065 | 10081 | 5253 | 4329 |
| 80° | 3775 | 4289 | 8263 | 4407 | 4091 |
| 85° | 3446 | 3767 | 6274 | 4001 | 3767 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 25137 cd/sqm



TEST NUMBER: P831790

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 282.2 | 3.8 |
| 10°-20° | 652.9 | 8.7 |
| 20°-30° | 749.2 | 10.0 |
| 30°-40° | 738.4 | 9.9 |
| 40°-50° | 651.2 | 8.7 |
| 50°-60° | 501.0 | 6.7 |
| 60°-70° | 329.4 | 4.4 |
| 70°-80° | 160.0 | 2.1 |
| 80°-90° | 42.9 | 0.6 |
| 90°-100° | 78.0 | 1.0 |
| 100°-110° | 236.2 | 3.2 |
| 110°-120° | 402.1 | 5.4 |
| 120°-130° | 529.0 | 7.1 |
| 130°-140° | 594.6 | 8.0 |
| 140°-150° | 584.6 | 7.8 |
| 150°-160° | 492.1 | 6.6 |
| 160°-170° | 327.6 | 4.4 |
| 170°-180° | 114.7 | 1.5 |
| 0°-30° | 1684.3 | 22.6 |
| 0°-40° | 2422.7 | 32.4 |
| 0°-60° | 3574.9 | 47.9 |
| 0°-90° | 4107.1 | 55.0 |
| 90°-120° | 716.3 | 9.6 |
| 90°-150° | 2424.4 | 32.5 |
| 90°-180° | 3359.0 | 45.0 |
| 0°-180° | 7466.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 3096 | 3096 | 3096 | 3096 | 3096 | |
| 5° | 3662 | 3545 | 3103 | 2509 | 2329 | 335 |
| 15° | 2215 | 2994 | 2962 | 1593 | 1323 | 625 |
| 25° | 1102 | 1648 | 2643 | 1120 | 1005 | 520 |
| 35° | 796 | 1005 | 2167 | 879 | 781 | 496 |
| 45° | 566 | 708 | 1565 | 658 | 578 | 439 |
| 55° | 377 | 487 | 972 | 457 | 360 | 338 |
| 65° | 230 | 289 | 536 | 275 | 237 | 225 |
| 75° | 100 | 122 | 242 | 126 | 104 | 108 |
| 85° | 28 | 30 | 51 | 32 | 30 | 30 |
| 90° | 29 | 23 | 1 | 23 | 29 | 15 |
| 95° | 74 | 70 | 56 | 70 | 74 | 74 |
| 105° | 227 | 225 | 214 | 225 | 227 | 240 |
| 115° | 406 | 406 | 405 | 406 | 406 | 402 |
| 125° | 586 | 593 | 592 | 593 | 586 | 524 |
| 135° | 768 | 773 | 768 | 773 | 768 | 590 |
| 145° | 932 | 937 | 932 | 937 | 932 | 582 |
| 155° | 1066 | 1068 | 1068 | 1068 | 1066 | 491 |
| 165° | 1159 | 1160 | 1163 | 1160 | 1159 | 327 |
| 175° | 1205 | 1206 | 1209 | 1206 | 1205 | 114 |
| 180° | 1212 | 1212 | 1212 | 1212 | 1212 | |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 |
| 2.5° | 3430.8 | 3420.0 | 3409.3 | 3406.1 | 3402.9 | 3392.8 | 3382.6 | 3359.8 | 3336.9 | 3313.4 | 3289.9 |
| 5° | 3661.8 | 3663.1 | 3664.4 | 3661.2 | 3658.0 | 3644.7 | 3631.4 | 3603.5 | 3575.5 | 3545.1 | 3514.6 |
| 7.5° | 3590.8 | 3611.1 | 3631.4 | 3635.2 | 3639.0 | 3649.2 | 3659.3 | 3653.0 | 3646.6 | 3635.2 | 3623.8 |
| 10° | 3279.8 | 3278.5 | 3277.3 | 3300.1 | 3322.9 | 3390.9 | 3458.8 | 3493.7 | 3528.6 | 3559.7 | 3590.8 |
| 12.5° | 2772.1 | 2774.0 | 2775.9 | 2850.8 | 2925.7 | 2989.8 | 3053.9 | 3142.7 | 3231.6 | 3327.4 | 3423.2 |
| 15° | 2214.9 | 2246.0 | 2277.1 | 2343.7 | 2410.3 | 2506.8 | 2603.3 | 2722.6 | 2841.9 | 2993.6 | 3145.3 |
| 17.5° | 1818.9 | 1832.2 | 1845.5 | 1909.6 | 1973.7 | 2065.1 | 2156.5 | 2291.7 | 2426.8 | 2622.3 | 2817.8 |
| 20° | 1499.0 | 1511.1 | 1523.1 | 1569.5 | 1615.8 | 1703.4 | 1790.9 | 1919.8 | 2048.6 | 2242.2 | 2435.7 |
| 22.5° | 1251.5 | 1275.0 | 1298.5 | 1329.6 | 1360.7 | 1424.1 | 1487.6 | 1619.0 | 1750.3 | 1926.8 | 2103.2 |
| 25° | 1101.7 | 1112.5 | 1123.3 | 1150.0 | 1176.6 | 1237.5 | 1298.5 | 1385.4 | 1472.4 | 1648.1 | 1823.9 |
| 27.5° | 1000.2 | 1003.4 | 1006.5 | 1026.2 | 1045.9 | 1085.2 | 1124.6 | 1205.2 | 1285.8 | 1430.5 | 1575.2 |
| 30° | 916.4 | 922.1 | 927.8 | 943.1 | 958.3 | 986.9 | 1015.4 | 1072.5 | 1129.7 | 1259.1 | 1388.6 |
| 32.5° | 851.7 | 854.9 | 858.0 | 870.7 | 883.4 | 904.4 | 925.3 | 970.4 | 1015.4 | 1114.4 | 1213.4 |
| 35° | 795.8 | 796.5 | 797.1 | 806.6 | 816.1 | 836.4 | 856.8 | 894.2 | 931.6 | 1004.6 | 1077.6 |
| 37.5° | 732.4 | 736.8 | 741.3 | 748.2 | 755.2 | 773.0 | 790.8 | 821.2 | 851.7 | 912.0 | 972.3 |
| 40° | 679.1 | 682.9 | 686.7 | 694.9 | 703.2 | 717.1 | 731.1 | 759.0 | 786.9 | 839.0 | 891.0 |
| 42.5° | 625.8 | 628.3 | 630.8 | 639.1 | 647.3 | 664.5 | 681.6 | 703.8 | 726.0 | 769.2 | 812.3 |
| 45° | 566.1 | 572.4 | 578.8 | 587.7 | 596.6 | 611.2 | 625.8 | 648.6 | 671.4 | 708.3 | 745.1 |
| 47.5° | 516.6 | 519.8 | 522.9 | 530.6 | 538.2 | 555.9 | 573.7 | 594.0 | 614.3 | 648.6 | 682.9 |
| 50° | 467.1 | 468.4 | 469.6 | 476.6 | 483.6 | 499.5 | 515.3 | 538.8 | 562.3 | 594.0 | 625.8 |
| 52.5° | 420.1 | 423.3 | 426.5 | 433.5 | 440.4 | 451.2 | 462.0 | 486.1 | 510.2 | 541.3 | 572.4 |
| 55° | 377.0 | 378.9 | 380.8 | 385.9 | 390.9 | 403.6 | 416.3 | 437.3 | 458.2 | 486.8 | 515.3 |
| 57.5° | 336.4 | 338.9 | 341.4 | 345.2 | 349.0 | 360.5 | 371.9 | 390.3 | 408.7 | 437.3 | 465.8 |
| 60° | 294.5 | 297.6 | 300.8 | 305.3 | 309.7 | 318.6 | 327.5 | 344.0 | 360.5 | 385.9 | 411.2 |
| 62.5° | 264.0 | 264.6 | 265.3 | 269.1 | 272.9 | 279.2 | 285.6 | 298.9 | 312.2 | 337.6 | 363.0 |
| 65° | 229.7 | 231.6 | 233.5 | 235.4 | 237.4 | 242.4 | 247.5 | 258.9 | 270.4 | 289.4 | 308.4 |
| 67.5° | 194.2 | 196.1 | 198.0 | 201.2 | 204.4 | 208.8 | 213.2 | 220.9 | 228.5 | 246.2 | 264.0 |
| 70° | 151.0 | 151.0 | 151.0 | 156.1 | 161.2 | 168.8 | 176.4 | 182.1 | 187.9 | 202.4 | 217.0 |
| 72.5° | 123.1 | 123.8 | 124.4 | 125.0 | 125.7 | 130.1 | 134.5 | 144.1 | 153.6 | 162.5 | 171.4 |
| 75° | 100.3 | 100.9 | 101.5 | 102.2 | 102.8 | 104.1 | 105.3 | 108.5 | 111.7 | 121.8 | 132.0 |
| 77.5° | 80.0 | 80.6 | 81.2 | 81.9 | 82.5 | 83.8 | 85.0 | 86.3 | 87.6 | 91.4 | 95.2 |
| 80° | 60.9 | 61.6 | 62.2 | 62.8 | 63.5 | 64.1 | 64.7 | 66.0 | 67.3 | 69.2 | 71.1 |
| 82.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 45.7 | 47.0 | 47.0 | 47.0 | 48.2 | 49.5 |
| 85° | 27.9 | 27.9 | 27.9 | 28.6 | 29.2 | 29.2 | 29.2 | 29.8 | 30.5 | 30.5 | 30.5 |
| 87.5° | 12.7 | 12.1 | 11.4 | 12.1 | 12.7 | 12.7 | 12.7 | 13.3 | 14.0 | 14.0 | 14.0 |
| 90° | 28.6 | 28.1 | 27.7 | 27.3 | 26.9 | 26.2 | 25.4 | 24.5 | 23.7 | 22.9 | 20.1 |
| 92.5° | 40.9 | 41.4 | 41.8 | 42.2 | 42.6 | 42.5 | 41.9 | 41.3 | 40.6 | 40.0 | 38.7 |
| 95° | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 73.9 | 73.0 | 72.2 | 71.3 | 70.5 | 68.8 |
| 97.5° | 106.7 | 106.9 | 107.1 | 107.3 | 107.5 | 107.1 | 106.0 | 105.0 | 103.9 | 102.8 | 101.6 |
| 100° | 144.7 | 144.3 | 143.9 | 143.5 | 143.1 | 142.5 | 141.9 | 141.3 | 140.6 | 140.0 | 138.9 |
| 102.5° | 183.8 | 184.0 | 184.2 | 184.4 | 184.6 | 184.4 | 183.8 | 183.2 | 182.5 | 181.9 | 180.4 |
| 105° | 226.6 | 226.2 | 225.8 | 225.4 | 225.0 | 224.7 | 224.7 | 224.7 | 224.7 | 224.7 | 222.8 |
| 107.5° | 270.5 | 270.7 | 270.9 | 271.1 | 271.3 | 271.1 | 270.5 | 269.8 | 269.2 | 268.5 | 267.7 |
| 110° | 315.2 | 315.6 | 316.1 | 316.5 | 316.9 | 316.7 | 315.8 | 315.0 | 314.2 | 313.3 | 312.9 |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 362.8 | 362.8 | 362.8 | 362.8 | 362.8 | 362.3 | 361.2 | 360.2 | 359.1 | 358.1 | 358.1 |
| 115° | 405.7 | 405.9 | 406.1 | 406.3 | 406.5 | 406.5 | 406.3 | 406.1 | 405.9 | 405.7 | 406.1 |
| 117.5° | 449.5 | 450.1 | 450.8 | 451.4 | 452.0 | 452.3 | 452.3 | 452.3 | 452.3 | 452.3 | 452.8 |
| 120° | 496.1 | 496.6 | 497.0 | 497.4 | 497.8 | 498.2 | 498.4 | 498.6 | 498.8 | 499.0 | 500.1 |
| 122.5° | 540.9 | 541.5 | 542.2 | 542.8 | 543.4 | 544.1 | 544.7 | 545.3 | 546.0 | 546.6 | 547.0 |
| 125° | 585.7 | 586.5 | 587.4 | 588.2 | 589.0 | 589.9 | 590.7 | 591.6 | 592.4 | 593.3 | 593.7 |
| 127.5° | 630.4 | 631.3 | 632.1 | 633.0 | 633.8 | 634.9 | 636.1 | 637.4 | 638.7 | 639.9 | 640.4 |
| 130° | 674.2 | 675.7 | 677.2 | 678.7 | 680.1 | 681.3 | 682.2 | 683.0 | 683.9 | 684.7 | 685.3 |
| 132.5° | 719.9 | 721.0 | 722.0 | 723.1 | 724.2 | 725.2 | 726.3 | 727.3 | 728.4 | 729.5 | 729.9 |
| 135° | 767.5 | 768.0 | 768.4 | 768.8 | 769.2 | 769.9 | 770.7 | 771.6 | 772.4 | 773.3 | 773.5 |
| 137.5° | 809.4 | 810.1 | 810.7 | 811.4 | 812.0 | 812.8 | 813.9 | 814.9 | 816.0 | 817.1 | 816.4 |
| 140° | 850.4 | 851.9 | 853.4 | 854.8 | 856.3 | 857.2 | 857.4 | 857.6 | 857.8 | 858.0 | 857.8 |
| 142.5° | 892.3 | 893.4 | 894.4 | 895.5 | 896.5 | 897.2 | 897.4 | 897.6 | 897.8 | 898.0 | 897.6 |
| 145° | 932.3 | 933.1 | 934.0 | 934.8 | 935.7 | 936.2 | 936.4 | 936.6 | 936.8 | 937.1 | 936.4 |
| 147.5° | 968.5 | 969.7 | 971.0 | 972.3 | 973.6 | 974.2 | 974.2 | 974.2 | 974.2 | 974.2 | 973.6 |
| 150° | 1002.8 | 1004.0 | 1005.3 | 1006.6 | 1007.8 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1008.1 |
| 152.5° | 1036.1 | 1037.2 | 1038.2 | 1039.3 | 1040.3 | 1040.6 | 1040.2 | 1039.8 | 1039.4 | 1038.9 | 1038.7 |
| 155° | 1065.6 | 1067.1 | 1068.6 | 1070.1 | 1071.5 | 1071.9 | 1071.0 | 1070.2 | 1069.3 | 1068.5 | 1068.3 |
| 157.5° | 1093.2 | 1094.5 | 1095.8 | 1097.0 | 1098.3 | 1098.5 | 1097.7 | 1096.8 | 1096.0 | 1095.1 | 1094.9 |
| 160° | 1119.9 | 1120.7 | 1121.6 | 1122.4 | 1123.3 | 1123.2 | 1122.1 | 1121.1 | 1120.0 | 1118.9 | 1118.9 |
| 162.5° | 1139.9 | 1141.4 | 1142.9 | 1144.3 | 1145.8 | 1146.0 | 1145.0 | 1143.9 | 1142.9 | 1141.8 | 1141.6 |
| 165° | 1158.9 | 1160.4 | 1161.9 | 1163.4 | 1164.9 | 1165.0 | 1163.7 | 1162.4 | 1161.2 | 1159.9 | 1159.9 |
| 167.5° | 1176.1 | 1177.3 | 1178.6 | 1179.9 | 1181.2 | 1181.2 | 1179.9 | 1178.6 | 1177.3 | 1176.1 | 1175.9 |
| 170° | 1188.5 | 1189.9 | 1191.4 | 1192.9 | 1194.4 | 1194.4 | 1192.9 | 1191.4 | 1189.9 | 1188.5 | 1188.5 |
| 172.5° | 1198.0 | 1199.5 | 1200.9 | 1202.4 | 1203.9 | 1204.0 | 1202.7 | 1201.5 | 1200.2 | 1198.9 | 1198.9 |
| 175° | 1204.6 | 1206.1 | 1207.6 | 1209.1 | 1210.6 | 1210.7 | 1209.4 | 1208.1 | 1206.9 | 1205.6 | 1205.6 |
| 177.5° | 1208.5 | 1209.9 | 1211.4 | 1212.9 | 1214.4 | 1214.5 | 1213.2 | 1211.9 | 1210.7 | 1209.4 | 1209.4 |
| 180° | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 |

TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 |
| 2.5° | 3286.8 | 3283.6 | 3253.1 | 3222.7 | 3192.8 | 3163.0 | 3140.8 | 3118.6 | 3081.2 | 3043.7 | 3020.2 |
| 5° | 3490.5 | 3466.4 | 3418.1 | 3369.9 | 3297.6 | 3225.2 | 3164.3 | 3103.4 | 3025.9 | 2948.5 | 2883.8 |
| 7.5° | 3604.1 | 3584.4 | 3526.0 | 3467.6 | 3371.8 | 3276.0 | 3180.8 | 3085.6 | 2971.4 | 2857.1 | 2759.4 |
| 10° | 3607.3 | 3623.8 | 3575.5 | 3527.3 | 3419.4 | 3311.5 | 3182.1 | 3052.6 | 2899.0 | 2745.4 | 2619.1 |
| 12.5° | 3494.3 | 3565.4 | 3555.2 | 3545.1 | 3435.3 | 3325.5 | 3168.1 | 3010.7 | 2822.2 | 2633.7 | 2475.7 |
| 15° | 3283.0 | 3420.7 | 3461.3 | 3501.9 | 3411.2 | 3320.4 | 3141.4 | 2962.5 | 2741.0 | 2519.5 | 2338.0 |
| 17.5° | 3010.7 | 3203.6 | 3310.9 | 3418.1 | 3352.1 | 3286.1 | 3090.0 | 2893.9 | 2644.5 | 2395.1 | 2197.7 |
| 20° | 2688.3 | 2940.9 | 3109.1 | 3277.3 | 3253.1 | 3229.0 | 3026.6 | 2824.1 | 2555.0 | 2286.0 | 2072.1 |
| 22.5° | 2369.7 | 2636.3 | 2868.6 | 3100.8 | 3125.6 | 3150.3 | 2946.0 | 2741.6 | 2447.2 | 2152.7 | 1935.0 |
| 25° | 2094.9 | 2365.9 | 2642.6 | 2919.3 | 2975.2 | 3031.0 | 2836.8 | 2642.6 | 2337.4 | 2032.1 | 1815.7 |
| 27.5° | 1832.8 | 2090.5 | 2395.1 | 2699.7 | 2801.3 | 2902.8 | 2725.1 | 2547.4 | 2229.5 | 1911.5 | 1695.7 |
| 30° | 1619.0 | 1849.3 | 2160.3 | 2471.3 | 2612.8 | 2754.3 | 2591.2 | 2428.1 | 2112.7 | 1797.3 | 1586.0 |
| 32.5° | 1419.7 | 1625.9 | 1938.2 | 2250.4 | 2414.8 | 2579.2 | 2438.3 | 2297.4 | 1994.0 | 1690.7 | 1481.9 |
| 35° | 1262.3 | 1447.0 | 1738.3 | 2029.6 | 2213.6 | 2397.7 | 2282.1 | 2166.6 | 1870.3 | 1573.9 | 1376.5 |
| 37.5° | 1127.1 | 1282.0 | 1555.5 | 1829.0 | 2024.5 | 2220.0 | 2123.5 | 2027.0 | 1748.4 | 1469.8 | 1283.2 |
| 40° | 1015.4 | 1139.8 | 1394.3 | 1648.8 | 1840.4 | 2032.1 | 1949.6 | 1867.1 | 1617.7 | 1368.3 | 1193.7 |
| 42.5° | 919.6 | 1026.8 | 1255.3 | 1483.8 | 1659.6 | 1835.4 | 1780.8 | 1726.2 | 1500.3 | 1274.3 | 1112.5 |
| 45° | 835.2 | 925.3 | 1126.5 | 1327.7 | 1489.5 | 1651.3 | 1608.2 | 1565.0 | 1370.2 | 1175.3 | 1026.8 |
| 47.5° | 760.3 | 837.7 | 1017.3 | 1196.9 | 1342.3 | 1487.6 | 1447.6 | 1407.6 | 1246.4 | 1085.2 | 950.0 |
| 50° | 691.8 | 757.8 | 907.5 | 1057.3 | 1188.0 | 1318.8 | 1285.8 | 1252.8 | 1119.5 | 986.2 | 869.4 |
| 52.5° | 627.0 | 681.6 | 816.1 | 950.7 | 1056.0 | 1161.4 | 1136.0 | 1110.6 | 1007.8 | 905.0 | 799.0 |
| 55° | 565.5 | 615.6 | 729.2 | 842.8 | 932.9 | 1023.0 | 997.6 | 972.3 | 892.3 | 812.3 | 719.0 |
| 57.5° | 509.6 | 553.4 | 645.4 | 737.4 | 809.2 | 880.9 | 868.8 | 856.8 | 790.1 | 723.5 | 646.7 |
| 60° | 450.6 | 489.9 | 569.3 | 648.6 | 706.3 | 764.1 | 750.1 | 736.2 | 688.6 | 641.0 | 575.0 |
| 62.5° | 397.9 | 432.8 | 496.3 | 559.7 | 606.7 | 653.7 | 643.5 | 633.4 | 597.2 | 561.0 | 506.4 |
| 65° | 342.7 | 377.0 | 428.4 | 479.8 | 516.6 | 553.4 | 544.5 | 535.6 | 508.3 | 481.1 | 437.3 |
| 67.5° | 292.6 | 321.1 | 365.5 | 410.0 | 434.7 | 459.5 | 454.4 | 449.3 | 428.4 | 407.4 | 373.2 |
| 70° | 241.8 | 266.5 | 303.4 | 340.2 | 357.3 | 374.4 | 376.3 | 378.2 | 359.2 | 340.2 | 314.8 |
| 72.5° | 191.0 | 210.7 | 245.0 | 279.2 | 292.6 | 305.9 | 305.3 | 304.6 | 293.2 | 281.8 | 258.9 |
| 75° | 146.6 | 161.2 | 187.9 | 214.5 | 225.9 | 237.4 | 239.9 | 242.4 | 231.6 | 220.9 | 208.2 |
| 77.5° | 105.3 | 115.5 | 135.8 | 156.1 | 168.8 | 181.5 | 182.8 | 184.0 | 179.0 | 173.9 | 161.8 |
| 80° | 74.3 | 77.4 | 90.1 | 102.8 | 116.1 | 129.5 | 131.4 | 133.3 | 128.2 | 123.1 | 115.5 |
| 82.5° | 51.4 | 53.3 | 57.8 | 62.2 | 73.0 | 83.8 | 86.3 | 88.8 | 86.3 | 83.8 | 75.5 |
| 85° | 31.1 | 31.7 | 33.6 | 35.5 | 40.6 | 45.7 | 48.2 | 50.8 | 49.5 | 48.2 | 43.8 |
| 87.5° | 14.0 | 14.0 | 14.6 | 15.2 | 16.5 | 17.8 | 20.9 | 24.1 | 22.2 | 20.3 | 18.4 |
| 90° | 17.4 | 14.6 | 11.9 | 9.4 | 7.3 | 5.2 | 3.1 | 1.0 | 3.1 | 5.2 | 7.3 |
| 92.5° | 37.5 | 36.2 | 34.9 | 33.6 | 32.4 | 31.1 | 29.8 | 28.6 | 29.8 | 31.1 | 32.4 |
| 95° | 67.1 | 65.4 | 63.7 | 62.1 | 60.6 | 59.1 | 57.7 | 56.2 | 57.7 | 59.1 | 60.6 |
| 97.5° | 100.3 | 99.0 | 97.8 | 96.6 | 95.5 | 94.5 | 93.4 | 92.4 | 93.4 | 94.5 | 95.5 |
| 100° | 137.9 | 136.8 | 135.8 | 134.6 | 133.3 | 132.1 | 130.8 | 129.5 | 130.8 | 132.1 | 133.3 |
| 102.5° | 178.9 | 177.4 | 176.0 | 174.9 | 174.3 | 173.6 | 173.0 | 172.4 | 173.0 | 173.6 | 174.3 |
| 105° | 220.9 | 219.0 | 217.1 | 216.0 | 215.5 | 215.1 | 214.7 | 214.3 | 214.7 | 215.1 | 215.5 |
| 107.5° | 266.9 | 266.0 | 265.2 | 264.6 | 264.4 | 264.2 | 264.0 | 263.8 | 264.0 | 264.2 | 264.4 |
| 110° | 312.5 | 312.0 | 311.6 | 311.2 | 310.8 | 310.3 | 309.9 | 309.5 | 309.9 | 310.3 | 310.8 |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 358.1 | 358.1 | 358.1 | 358.0 | 357.7 | 357.5 | 357.3 | 357.1 | 357.3 | 357.5 | 357.7 |
| 115° | 406.5 | 406.9 | 407.4 | 407.3 | 406.6 | 406.0 | 405.4 | 404.7 | 405.4 | 406.0 | 406.6 |
| 117.5° | 453.2 | 453.6 | 454.0 | 454.1 | 453.9 | 453.7 | 453.5 | 453.3 | 453.5 | 453.7 | 453.9 |
| 120° | 501.1 | 502.2 | 503.2 | 503.1 | 501.9 | 500.6 | 499.3 | 498.0 | 499.3 | 500.6 | 501.9 |
| 122.5° | 547.5 | 547.9 | 548.3 | 548.1 | 547.2 | 546.4 | 545.6 | 544.7 | 545.6 | 546.4 | 547.2 |
| 125° | 594.1 | 594.5 | 595.0 | 594.9 | 594.2 | 593.6 | 593.0 | 592.3 | 593.0 | 593.6 | 594.2 |
| 127.5° | 640.8 | 641.2 | 641.6 | 641.2 | 639.9 | 638.7 | 637.4 | 636.1 | 637.4 | 638.7 | 639.9 |
| 130° | 686.0 | 686.6 | 687.2 | 686.7 | 685.0 | 683.3 | 681.6 | 679.9 | 681.6 | 683.3 | 685.0 |
| 132.5° | 730.3 | 730.7 | 731.1 | 730.5 | 728.8 | 727.1 | 725.4 | 723.7 | 725.4 | 727.1 | 728.8 |
| 135° | 773.7 | 773.9 | 774.1 | 773.6 | 772.3 | 771.0 | 769.8 | 768.5 | 769.8 | 771.0 | 772.3 |
| 137.5° | 815.8 | 815.2 | 814.5 | 813.7 | 812.6 | 811.6 | 810.5 | 809.4 | 810.5 | 811.6 | 812.6 |
| 140° | 857.6 | 857.4 | 857.2 | 856.5 | 855.5 | 854.4 | 853.4 | 852.3 | 853.4 | 854.4 | 855.5 |
| 142.5° | 897.2 | 896.7 | 896.3 | 895.6 | 894.5 | 893.5 | 892.4 | 891.3 | 892.4 | 893.5 | 894.5 |
| 145° | 935.8 | 935.1 | 934.5 | 934.0 | 933.6 | 933.1 | 932.7 | 932.3 | 932.7 | 933.1 | 933.6 |
| 147.5° | 972.9 | 972.3 | 971.7 | 970.9 | 970.1 | 969.2 | 968.4 | 967.5 | 968.4 | 969.2 | 970.1 |
| 150° | 1007.6 | 1007.2 | 1006.8 | 1006.4 | 1005.9 | 1005.5 | 1005.1 | 1004.7 | 1005.1 | 1005.5 | 1005.9 |
| 152.5° | 1038.5 | 1038.3 | 1038.1 | 1037.7 | 1037.0 | 1036.4 | 1035.8 | 1035.1 | 1035.8 | 1036.4 | 1037.0 |
| 155° | 1068.0 | 1067.8 | 1067.6 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 | 1067.5 |
| 157.5° | 1094.7 | 1094.5 | 1094.3 | 1094.3 | 1094.5 | 1094.7 | 1094.9 | 1095.1 | 1094.9 | 1094.7 | 1094.5 |
| 160° | 1118.9 | 1118.9 | 1118.9 | 1119.2 | 1119.6 | 1120.0 | 1120.4 | 1120.8 | 1120.4 | 1120.0 | 1119.6 |
| 162.5° | 1141.4 | 1141.2 | 1141.0 | 1141.2 | 1141.8 | 1142.4 | 1143.1 | 1143.7 | 1143.1 | 1142.4 | 1141.8 |
| 165° | 1159.9 | 1159.9 | 1159.9 | 1160.2 | 1160.8 | 1161.5 | 1162.1 | 1162.7 | 1162.1 | 1161.5 | 1160.8 |
| 167.5° | 1175.7 | 1175.4 | 1175.2 | 1175.5 | 1176.4 | 1177.2 | 1178.1 | 1178.9 | 1178.1 | 1177.2 | 1176.4 |
| 170° | 1188.5 | 1188.5 | 1188.5 | 1188.9 | 1189.7 | 1190.6 | 1191.4 | 1192.3 | 1191.4 | 1190.6 | 1189.7 |
| 172.5° | 1198.9 | 1198.9 | 1198.9 | 1199.4 | 1200.2 | 1201.1 | 1201.9 | 1202.7 | 1201.9 | 1201.1 | 1200.2 |
| 175° | 1205.6 | 1205.6 | 1205.6 | 1206.0 | 1206.9 | 1207.7 | 1208.6 | 1209.4 | 1208.6 | 1207.7 | 1206.9 |
| 177.5° | 1209.4 | 1209.4 | 1209.4 | 1209.8 | 1210.7 | 1211.5 | 1212.4 | 1213.2 | 1212.4 | 1211.5 | 1210.7 |
| 180° | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 | 3095.7 |
| 2.5° | 2996.7 | 2960.6 | 2924.4 | 2898.4 | 2872.4 | 2840.0 | 2807.6 | 2806.4 | 2805.1 | 2781.0 | 2756.9 |
| 5° | 2819.0 | 2756.2 | 2693.4 | 2631.8 | 2570.3 | 2508.7 | 2447.2 | 2433.2 | 2419.2 | 2398.3 | 2377.3 |
| 7.5° | 2661.7 | 2561.4 | 2461.1 | 2382.4 | 2303.7 | 2242.2 | 2180.6 | 2138.7 | 2096.8 | 2064.5 | 2032.1 |
| 10° | 2492.8 | 2368.5 | 2244.1 | 2148.9 | 2053.7 | 1987.0 | 1920.4 | 1872.2 | 1823.9 | 1801.1 | 1778.2 |
| 12.5° | 2317.7 | 2182.5 | 2047.3 | 1954.0 | 1860.7 | 1780.8 | 1700.8 | 1657.0 | 1613.2 | 1581.5 | 1549.8 |
| 15° | 2156.5 | 2011.2 | 1865.8 | 1766.8 | 1667.8 | 1592.9 | 1518.0 | 1474.3 | 1430.5 | 1398.7 | 1367.0 |
| 17.5° | 2000.4 | 1853.8 | 1707.2 | 1606.9 | 1506.6 | 1438.7 | 1370.8 | 1328.3 | 1285.8 | 1266.1 | 1246.4 |
| 20° | 1858.2 | 1710.3 | 1562.5 | 1467.9 | 1373.4 | 1306.7 | 1240.1 | 1217.2 | 1194.4 | 1176.0 | 1157.6 |
| 22.5° | 1717.3 | 1575.2 | 1433.0 | 1342.3 | 1251.5 | 1203.3 | 1155.0 | 1136.6 | 1118.2 | 1104.3 | 1090.3 |
| 25° | 1599.3 | 1457.8 | 1316.2 | 1236.9 | 1157.6 | 1120.1 | 1082.7 | 1070.6 | 1058.6 | 1044.6 | 1030.6 |
| 27.5° | 1480.0 | 1345.4 | 1210.9 | 1147.4 | 1084.0 | 1053.5 | 1023.0 | 1007.8 | 992.6 | 981.1 | 969.7 |
| 30° | 1374.6 | 1250.2 | 1125.8 | 1073.2 | 1020.5 | 993.8 | 967.2 | 950.7 | 934.2 | 923.4 | 912.6 |
| 32.5° | 1273.1 | 1162.7 | 1052.2 | 1007.2 | 962.1 | 936.1 | 910.1 | 894.2 | 878.3 | 865.6 | 852.9 |
| 35° | 1179.2 | 1083.3 | 987.5 | 946.2 | 905.0 | 879.0 | 852.9 | 837.1 | 821.2 | 808.5 | 795.8 |
| 37.5° | 1096.6 | 1009.7 | 922.8 | 884.0 | 845.3 | 822.5 | 799.6 | 783.1 | 766.6 | 753.3 | 740.0 |
| 40° | 1019.2 | 942.4 | 865.6 | 828.2 | 790.8 | 766.0 | 741.3 | 726.7 | 712.1 | 700.0 | 687.9 |
| 42.5° | 950.7 | 880.2 | 809.8 | 773.0 | 736.2 | 712.7 | 689.2 | 672.1 | 654.9 | 648.0 | 641.0 |
| 45° | 878.3 | 816.1 | 753.9 | 718.4 | 682.9 | 658.1 | 633.4 | 618.8 | 604.2 | 597.8 | 591.5 |
| 47.5° | 814.9 | 757.1 | 699.4 | 664.5 | 629.6 | 607.3 | 585.1 | 573.7 | 562.3 | 553.4 | 544.5 |
| 50° | 752.7 | 696.8 | 641.0 | 607.3 | 573.7 | 554.7 | 535.6 | 521.7 | 507.7 | 501.4 | 495.0 |
| 52.5° | 693.0 | 642.3 | 591.5 | 557.2 | 522.9 | 504.5 | 486.1 | 474.1 | 462.0 | 448.7 | 435.4 |
| 55° | 625.8 | 581.3 | 536.9 | 506.4 | 476.0 | 456.9 | 437.9 | 423.9 | 410.0 | 396.0 | 382.1 |
| 57.5° | 569.9 | 526.1 | 482.3 | 455.0 | 427.7 | 409.3 | 390.9 | 375.7 | 360.5 | 349.0 | 337.6 |
| 60° | 509.0 | 470.9 | 432.8 | 406.2 | 379.5 | 361.7 | 344.0 | 329.4 | 314.8 | 309.1 | 303.4 |
| 62.5° | 451.9 | 416.3 | 380.8 | 357.3 | 333.8 | 316.7 | 299.5 | 290.0 | 280.5 | 276.7 | 272.9 |
| 65° | 393.5 | 363.0 | 332.5 | 311.0 | 289.4 | 274.8 | 260.2 | 255.8 | 251.3 | 248.1 | 245.0 |
| 67.5° | 338.9 | 312.9 | 286.9 | 267.8 | 248.8 | 238.6 | 228.5 | 223.4 | 218.3 | 214.5 | 210.7 |
| 70° | 289.4 | 266.5 | 243.7 | 227.2 | 210.7 | 201.2 | 191.7 | 187.2 | 182.8 | 175.8 | 168.8 |
| 72.5° | 236.1 | 218.3 | 200.5 | 187.9 | 175.2 | 166.9 | 158.7 | 149.8 | 140.9 | 134.5 | 128.2 |
| 75° | 195.5 | 177.7 | 159.9 | 147.9 | 135.8 | 126.3 | 116.8 | 113.6 | 110.4 | 108.5 | 106.6 |
| 77.5° | 149.8 | 134.5 | 119.3 | 109.8 | 100.3 | 95.8 | 91.4 | 89.5 | 87.6 | 86.9 | 86.3 |
| 80° | 107.9 | 95.2 | 82.5 | 77.4 | 72.3 | 71.1 | 69.8 | 68.5 | 67.3 | 66.6 | 66.0 |
| 82.5° | 67.3 | 60.9 | 54.6 | 53.3 | 52.0 | 51.4 | 50.8 | 50.1 | 49.5 | 48.9 | 48.2 |
| 85° | 39.3 | 36.8 | 34.3 | 33.6 | 33.0 | 32.4 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 |
| 87.5° | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 15.9 | 15.2 |
| 90° | 9.4 | 11.9 | 14.6 | 17.4 | 20.1 | 22.9 | 23.7 | 24.5 | 25.4 | 26.2 | 26.9 |
| 92.5° | 33.6 | 34.9 | 36.2 | 37.5 | 38.7 | 40.0 | 40.6 | 41.3 | 41.9 | 42.5 | 42.6 |
| 95° | 62.1 | 63.7 | 65.4 | 67.1 | 68.8 | 70.5 | 71.3 | 72.2 | 73.0 | 73.9 | 74.3 |
| 97.5° | 96.6 | 97.8 | 99.0 | 100.3 | 101.6 | 102.8 | 103.9 | 105.0 | 106.0 | 107.1 | 107.5 |
| 100° | 134.6 | 135.8 | 136.8 | 137.9 | 138.9 | 140.0 | 140.6 | 141.3 | 141.9 | 142.5 | 143.1 |
| 102.5° | 174.9 | 176.0 | 177.4 | 178.9 | 180.4 | 181.9 | 182.5 | 183.2 | 183.8 | 184.4 | 184.6 |
| 105° | 216.0 | 217.1 | 219.0 | 220.9 | 222.8 | 224.7 | 224.7 | 224.7 | 224.7 | 224.7 | 225.0 |
| 107.5° | 264.6 | 265.2 | 266.0 | 266.9 | 267.7 | 268.5 | 269.2 | 269.8 | 270.5 | 271.1 | 271.3 |
| 110° | 311.2 | 311.6 | 312.0 | 312.5 | 312.9 | 313.3 | 314.2 | 315.0 | 315.8 | 316.7 | 316.9 |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 358.0 | 358.1 | 358.1 | 358.1 | 358.1 | 358.1 | 359.1 | 360.2 | 361.2 | 362.3 | 362.8 |
| 115° | 407.3 | 407.4 | 406.9 | 406.5 | 406.1 | 405.7 | 405.9 | 406.1 | 406.3 | 406.5 | 406.5 |
| 117.5° | 454.1 | 454.0 | 453.6 | 453.2 | 452.8 | 452.3 | 452.3 | 452.3 | 452.3 | 452.3 | 452.0 |
| 120° | 503.1 | 503.2 | 502.2 | 501.1 | 500.1 | 499.0 | 498.8 | 498.6 | 498.4 | 498.2 | 497.8 |
| 122.5° | 548.1 | 548.3 | 547.9 | 547.5 | 547.0 | 546.6 | 546.0 | 545.3 | 544.7 | 544.1 | 543.4 |
| 125° | 594.9 | 595.0 | 594.5 | 594.1 | 593.7 | 593.3 | 592.4 | 591.6 | 590.7 | 589.9 | 589.0 |
| 127.5° | 641.2 | 641.6 | 641.2 | 640.8 | 640.4 | 639.9 | 638.7 | 637.4 | 636.1 | 634.9 | 633.8 |
| 130° | 686.7 | 687.2 | 686.6 | 686.0 | 685.3 | 684.7 | 683.9 | 683.0 | 682.2 | 681.3 | 680.1 |
| 132.5° | 730.5 | 731.1 | 730.7 | 730.3 | 729.9 | 729.5 | 728.4 | 727.3 | 726.3 | 725.2 | 724.2 |
| 135° | 773.6 | 774.1 | 773.9 | 773.7 | 773.5 | 773.3 | 772.4 | 771.6 | 770.7 | 769.9 | 769.2 |
| 137.5° | 813.7 | 814.5 | 815.2 | 815.8 | 816.4 | 817.1 | 816.0 | 814.9 | 813.9 | 812.8 | 812.0 |
| 140° | 856.5 | 857.2 | 857.4 | 857.6 | 857.8 | 858.0 | 857.8 | 857.6 | 857.4 | 857.2 | 856.3 |
| 142.5° | 895.6 | 896.3 | 896.7 | 897.2 | 897.6 | 898.0 | 897.8 | 897.6 | 897.4 | 897.2 | 896.5 |
| 145° | 934.0 | 934.5 | 935.1 | 935.8 | 936.4 | 937.1 | 936.8 | 936.6 | 936.4 | 936.2 | 935.7 |
| 147.5° | 970.9 | 971.7 | 972.3 | 972.9 | 973.6 | 974.2 | 974.2 | 974.2 | 974.2 | 974.2 | 973.6 |
| 150° | 1006.4 | 1006.8 | 1007.2 | 1007.6 | 1008.1 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1007.8 |
| 152.5° | 1037.7 | 1038.1 | 1038.3 | 1038.5 | 1038.7 | 1038.9 | 1039.4 | 1039.8 | 1040.2 | 1040.6 | 1040.3 |
| 155° | 1067.5 | 1067.6 | 1067.8 | 1068.0 | 1068.3 | 1068.5 | 1069.3 | 1070.2 | 1071.0 | 1071.9 | 1071.5 |
| 157.5° | 1094.3 | 1094.3 | 1094.5 | 1094.7 | 1094.9 | 1095.1 | 1096.0 | 1096.8 | 1097.7 | 1098.5 | 1098.3 |
| 160° | 1119.2 | 1118.9 | 1118.9 | 1118.9 | 1118.9 | 1118.9 | 1120.0 | 1121.1 | 1122.1 | 1123.2 | 1123.3 |
| 162.5° | 1141.2 | 1141.0 | 1141.2 | 1141.4 | 1141.6 | 1141.8 | 1142.9 | 1143.9 | 1145.0 | 1146.0 | 1145.8 |
| 165° | 1160.2 | 1159.9 | 1159.9 | 1159.9 | 1159.9 | 1159.9 | 1161.2 | 1162.4 | 1163.7 | 1165.0 | 1164.9 |
| 167.5° | 1175.5 | 1175.2 | 1175.4 | 1175.7 | 1175.9 | 1176.1 | 1177.3 | 1178.6 | 1179.9 | 1181.2 | 1181.2 |
| 170° | 1188.9 | 1188.5 | 1188.5 | 1188.5 | 1188.5 | 1188.5 | 1189.9 | 1191.4 | 1192.9 | 1194.4 | 1194.4 |
| 172.5° | 1199.4 | 1198.9 | 1198.9 | 1198.9 | 1198.9 | 1198.9 | 1200.2 | 1201.5 | 1202.7 | 1204.0 | 1203.9 |
| 175° | 1206.0 | 1205.6 | 1205.6 | 1205.6 | 1205.6 | 1205.6 | 1206.9 | 1208.1 | 1209.4 | 1210.7 | 1210.6 |
| 177.5° | 1209.8 | 1209.4 | 1209.4 | 1209.4 | 1209.4 | 1209.4 | 1210.7 | 1211.9 | 1213.2 | 1214.5 | 1214.4 |
| 180° | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 | 1212.3 |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 3095.7 | 3095.7 | 3095.7 | 3095.7 |
| 2.5° | 2750.5 | 2744.2 | 2741.6 | 2739.1 |
| 5° | 2357.7 | 2338.0 | 2333.6 | 2329.1 |
| 7.5° | 2023.9 | 2015.6 | 1988.3 | 1961.0 |
| 10° | 1752.9 | 1727.5 | 1716.1 | 1704.6 |
| 12.5° | 1526.3 | 1502.8 | 1499.0 | 1495.2 |
| 15° | 1350.5 | 1334.0 | 1328.3 | 1322.6 |
| 17.5° | 1235.0 | 1223.6 | 1216.6 | 1209.6 |
| 20° | 1149.3 | 1141.1 | 1136.0 | 1130.9 |
| 22.5° | 1084.0 | 1077.6 | 1073.8 | 1070.0 |
| 25° | 1021.1 | 1011.6 | 1008.4 | 1005.3 |
| 27.5° | 961.5 | 953.2 | 950.0 | 946.9 |
| 30° | 905.6 | 898.6 | 894.2 | 889.8 |
| 32.5° | 844.7 | 836.4 | 833.9 | 831.4 |
| 35° | 790.8 | 785.7 | 783.1 | 780.6 |
| 37.5° | 733.6 | 727.3 | 723.5 | 719.7 |
| 40° | 684.8 | 681.6 | 679.7 | 677.8 |
| 42.5° | 635.3 | 629.6 | 628.9 | 628.3 |
| 45° | 585.8 | 580.1 | 578.8 | 577.5 |
| 47.5° | 539.4 | 534.4 | 533.7 | 533.1 |
| 50° | 488.0 | 481.1 | 476.0 | 470.9 |
| 52.5° | 429.0 | 422.7 | 418.2 | 413.8 |
| 55° | 375.1 | 368.1 | 364.3 | 360.5 |
| 57.5° | 334.5 | 331.3 | 329.4 | 327.5 |
| 60° | 301.5 | 299.5 | 298.3 | 297.0 |
| 62.5° | 271.0 | 269.1 | 269.1 | 269.1 |
| 65° | 243.1 | 241.2 | 239.3 | 237.4 |
| 67.5° | 206.9 | 203.1 | 202.4 | 201.8 |
| 70° | 163.1 | 157.4 | 156.8 | 156.1 |
| 72.5° | 127.6 | 126.9 | 125.7 | 124.4 |
| 75° | 105.3 | 104.1 | 104.1 | 104.1 |
| 77.5° | 85.0 | 83.8 | 83.8 | 83.8 |
| 80° | 65.4 | 64.7 | 65.4 | 66.0 |
| 82.5° | 48.2 | 48.2 | 47.6 | 47.0 |
| 85° | 31.1 | 30.5 | 30.5 | 30.5 |
| 87.5° | 15.2 | 15.2 | 15.2 | 15.2 |
| 90° | 27.3 | 27.7 | 28.1 | 28.6 |
| 92.5° | 42.2 | 41.8 | 41.4 | 40.9 |
| 95° | 74.3 | 74.3 | 74.3 | 74.3 |
| 97.5° | 107.3 | 107.1 | 106.9 | 106.7 |
| 100° | 143.5 | 143.9 | 144.3 | 144.7 |
| 102.5° | 184.4 | 184.2 | 184.0 | 183.8 |
| 105° | 225.4 | 225.8 | 226.2 | 226.6 |
| 107.5° | 271.1 | 270.9 | 270.7 | 270.5 |
| 110° | 316.5 | 316.1 | 315.6 | 315.2 |



TEST NUMBER: P831790

CATALOG NUMBER: S123RDIP-S1000D1025U950-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 362.8 | 362.8 | 362.8 | 362.8 |
| 115° | 406.3 | 406.1 | 405.9 | 405.7 |
| 117.5° | 451.4 | 450.8 | 450.1 | 449.5 |
| 120° | 497.4 | 497.0 | 496.6 | 496.1 |
| 122.5° | 542.8 | 542.2 | 541.5 | 540.9 |
| 125° | 588.2 | 587.4 | 586.5 | 585.7 |
| 127.5° | 633.0 | 632.1 | 631.3 | 630.4 |
| 130° | 678.7 | 677.2 | 675.7 | 674.2 |
| 132.5° | 723.1 | 722.0 | 721.0 | 719.9 |
| 135° | 768.8 | 768.4 | 768.0 | 767.5 |
| 137.5° | 811.4 | 810.7 | 810.1 | 809.4 |
| 140° | 854.8 | 853.4 | 851.9 | 850.4 |
| 142.5° | 895.5 | 894.4 | 893.4 | 892.3 |
| 145° | 934.8 | 934.0 | 933.1 | 932.3 |
| 147.5° | 972.3 | 971.0 | 969.7 | 968.5 |
| 150° | 1006.6 | 1005.3 | 1004.0 | 1002.8 |
| 152.5° | 1039.3 | 1038.2 | 1037.2 | 1036.1 |
| 155° | 1070.1 | 1068.6 | 1067.1 | 1065.6 |
| 157.5° | 1097.0 | 1095.8 | 1094.5 | 1093.2 |
| 160° | 1122.4 | 1121.6 | 1120.7 | 1119.9 |
| 162.5° | 1144.3 | 1142.9 | 1141.4 | 1139.9 |
| 165° | 1163.4 | 1161.9 | 1160.4 | 1158.9 |
| 167.5° | 1179.9 | 1178.6 | 1177.3 | 1176.1 |
| 170° | 1192.9 | 1191.4 | 1189.9 | 1188.5 |
| 172.5° | 1202.4 | 1200.9 | 1199.5 | 1198.0 |
| 175° | 1209.1 | 1207.6 | 1206.1 | 1204.6 |
| 177.5° | 1212.9 | 1211.4 | 1209.9 | 1208.5 |
| 180° | 1212.3 | 1212.3 | 1212.3 | 1212.3 |



TEST NUMBER: P831790

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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 | 13.39 | 14.23 | 14.31 | 15.17 | 16.37 | 18.05 | 18.90 | 18.98 | 19.83 | 21.04 |
| | 3H | 14.61 | 15.37 | 15.55 | 16.31 | 17.54 | 19.55 | 20.31 | 20.49 | 21.25 | 22.48 |
| | 4H | 14.99 | 15.71 | 15.94 | 16.66 | 17.89 | 20.04 | 20.76 | 20.99 | 21.71 | 22.94 |
| | 6H | 15.27 | 15.93 | 16.24 | 16.89 | 18.13 | 20.35 | 21.01 | 21.32 | 21.97 | 23.21 |
| | 8H | 15.36 | 15.99 | 16.33 | 16.96 | 18.20 | 20.43 | 21.06 | 21.40 | 22.03 | 23.28 |
| | 12H | 15.41 | 16.01 | 16.39 | 16.97 | 18.24 | 20.47 | 21.06 | 21.44 | 22.03 | 23.30 |
| 4H | 2H | 14.11 | 14.83 | 15.07 | 15.78 | 17.01 | 18.05 | 18.76 | 19.01 | 19.71 | 20.95 |
| | 3H | 15.48 | 16.08 | 16.45 | 17.05 | 18.30 | 19.71 | 20.30 | 20.67 | 21.28 | 22.53 |
| | 4H | 15.94 | 16.48 | 16.91 | 17.45 | 18.73 | 20.31 | 20.86 | 21.29 | 21.83 | 23.10 |
| | 6H | 16.31 | 16.77 | 17.29 | 17.77 | 19.04 | 20.75 | 21.22 | 21.74 | 22.21 | 23.49 |
| | 8H | 16.43 | 16.87 | 17.42 | 17.86 | 19.14 | 20.88 | 21.32 | 21.87 | 22.31 | 23.59 |
| | 12H | 16.51 | 16.90 | 17.52 | 17.91 | 19.20 | 20.95 | 21.34 | 21.95 | 22.34 | 23.64 |
| 8H | 4H | 16.25 | 16.69 | 17.24 | 17.68 | 18.96 | 20.28 | 20.72 | 21.27 | 21.71 | 22.99 |
| | 6H | 16.72 | 17.08 | 17.73 | 18.11 | 19.39 | 20.78 | 21.14 | 21.79 | 22.17 | 23.45 |
| | 8H | 16.91 | 17.23 | 17.93 | 18.24 | 19.55 | 20.97 | 21.28 | 21.99 | 22.30 | 23.60 |
| | 12H | 17.05 | 17.33 | 18.08 | 18.34 | 19.69 | 21.08 | 21.36 | 22.11 | 22.37 | 23.72 |
| 12H | 4H | 16.27 | 16.66 | 17.27 | 17.66 | 18.95 | 20.23 | 20.62 | 21.24 | 21.63 | 22.92 |
| | 6H | 16.78 | 17.09 | 17.80 | 18.11 | 19.41 | 20.75 | 21.07 | 21.78 | 22.09 | 23.39 |
| | 8H | 17.00 | 17.27 | 18.02 | 18.28 | 19.63 | 20.95 | 21.22 | 21.97 | 22.24 | 23.59 |