

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: P831839

Luminaire Tested: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831839
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1000D365U935-4F0-1E-UDD-G4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: -

Summary

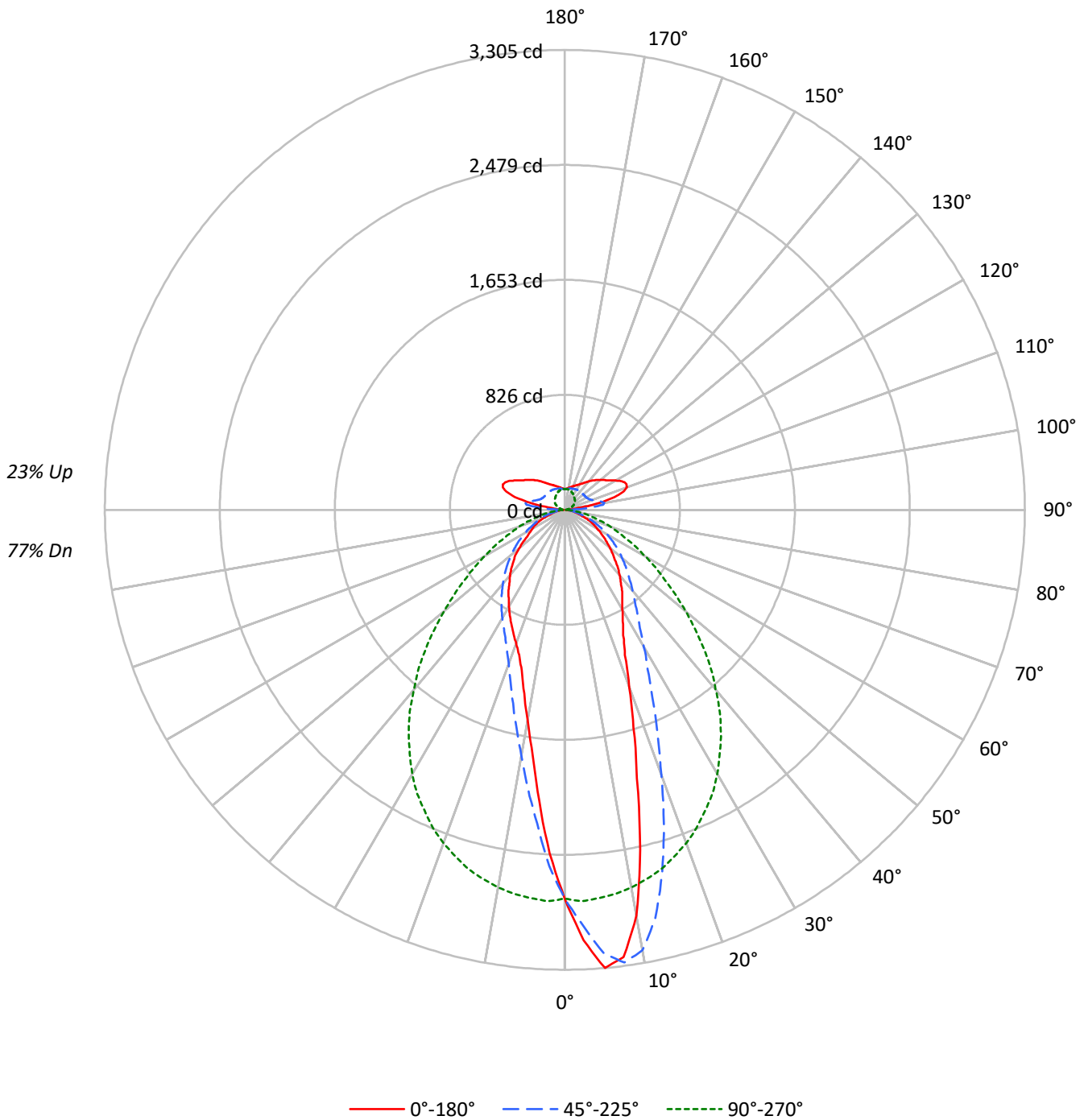
Lumens per Lamp: N/A
Luminaire Lumens: 4835.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

Luminous Intensity Polar Plot





TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 89 | 89 | 89 | 81 | 81 | 81 | 77 | | | | 77 |
| 1 | 105 | 101 | 97 | 94 | 100 | 96 | 93 | 90 | 88 | 86 | 83 | 80 | 78 | 77 | 73 | 72 | 70 | 67 | | | | 67 |
| 2 | 97 | 90 | 84 | 79 | 92 | 86 | 81 | 76 | 79 | 75 | 71 | 72 | 69 | 66 | 66 | 64 | 61 | 58 | | | | 58 |
| 3 | 89 | 80 | 73 | 68 | 85 | 77 | 71 | 66 | 71 | 66 | 62 | 65 | 61 | 58 | 60 | 57 | 54 | 51 | | | | 51 |
| 4 | 82 | 72 | 65 | 59 | 79 | 69 | 62 | 57 | 64 | 58 | 54 | 59 | 54 | 51 | 54 | 51 | 48 | 45 | | | | 45 |
| 5 | 76 | 65 | 57 | 52 | 73 | 63 | 56 | 50 | 58 | 52 | 48 | 54 | 49 | 45 | 50 | 46 | 43 | 40 | | | | 40 |
| 6 | 71 | 59 | 52 | 46 | 68 | 57 | 50 | 45 | 53 | 47 | 43 | 50 | 44 | 41 | 46 | 42 | 39 | 36 | | | | 36 |
| 7 | 66 | 54 | 47 | 41 | 63 | 53 | 45 | 40 | 49 | 43 | 39 | 46 | 41 | 37 | 43 | 38 | 35 | 33 | | | | 33 |
| 8 | 62 | 50 | 43 | 37 | 59 | 49 | 42 | 37 | 45 | 39 | 35 | 42 | 37 | 34 | 40 | 35 | 32 | 30 | | | | 30 |
| 9 | 58 | 46 | 39 | 34 | 56 | 45 | 38 | 34 | 42 | 36 | 32 | 40 | 34 | 31 | 37 | 33 | 30 | 28 | | | | 28 |
| 10 | 55 | 43 | 36 | 31 | 53 | 42 | 35 | 31 | 39 | 34 | 30 | 37 | 32 | 28 | 35 | 30 | 27 | 26 | | | | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 30074 | 30074 | 30074 | 30074 | 30074 |
| 5° | 35710 | 34571 | 30263 | 24464 | 22713 |
| 10° | 32354 | 35114 | 30112 | 19601 | 16816 |
| 15° | 22276 | 30107 | 29795 | 16020 | 13301 |
| 20° | 15497 | 23180 | 29196 | 13509 | 11692 |
| 25° | 11809 | 17667 | 28326 | 12006 | 10776 |
| 30° | 10280 | 14124 | 27237 | 11149 | 9981 |
| 35° | 9437 | 11914 | 25695 | 10424 | 9257 |
| 40° | 8612 | 10640 | 23678 | 9714 | 8595 |
| 45° | 7777 | 9730 | 21500 | 9042 | 7934 |
| 50° | 7060 | 8977 | 18933 | 8383 | 7117 |
| 55° | 6384 | 8244 | 16467 | 7739 | 6105 |
| 60° | 5722 | 7496 | 14303 | 7029 | 5772 |
| 65° | 5280 | 6653 | 12312 | 6316 | 5456 |
| 70° | 4290 | 5750 | 10744 | 5715 | 4434 |
| 75° | 3764 | 4575 | 9100 | 4741 | 3905 |
| 80° | 3409 | 3868 | 7457 | 3973 | 3694 |
| 85° | 3112 | 3396 | 5656 | 3606 | 3396 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 22686 cd/sqm



TEST NUMBER: P831839

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 254.7 | 5.3 |
| 10°-20° | 589.3 | 12.2 |
| 20°-30° | 676.1 | 14.0 |
| 30°-40° | 666.4 | 13.8 |
| 40°-50° | 587.7 | 12.2 |
| 50°-60° | 452.1 | 9.3 |
| 60°-70° | 297.3 | 6.1 |
| 70°-80° | 144.4 | 3.0 |
| 80°-90° | 37.2 | 0.8 |
| 90°-100° | 81.6 | 1.7 |
| 100°-110° | 238.8 | 4.9 |
| 110°-120° | 233.2 | 4.8 |
| 120°-130° | 185.7 | 3.8 |
| 130°-140° | 146.5 | 3.0 |
| 140°-150° | 109.3 | 2.3 |
| 150°-160° | 76.2 | 1.6 |
| 160°-170° | 44.8 | 0.9 |
| 170°-180° | 14.6 | 0.3 |
| 0°-30° | 1520.1 | 31.4 |
| 0°-40° | 2186.5 | 45.2 |
| 0°-60° | 3226.4 | 66.7 |
| 0°-90° | 3705.2 | 76.6 |
| 90°-120° | 553.5 | 11.4 |
| 90°-150° | 995.1 | 20.6 |
| 90°-180° | 1131.0 | 23.4 |
| 0°-180° | 4835.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2794 | 2794 | 2794 | 2794 | 2794 | |
| 5° | 3305 | 3200 | 2801 | 2264 | 2102 | 302 |
| 15° | 1999 | 2702 | 2674 | 1438 | 1194 | 564 |
| 25° | 994 | 1488 | 2385 | 1011 | 907 | 470 |
| 35° | 718 | 907 | 1955 | 793 | 704 | 448 |
| 45° | 511 | 639 | 1412 | 594 | 521 | 397 |
| 55° | 340 | 439 | 878 | 412 | 325 | 305 |
| 65° | 207 | 261 | 483 | 248 | 214 | 203 |
| 75° | 90 | 110 | 219 | 114 | 94 | 97 |
| 85° | 25 | 28 | 46 | 29 | 28 | 27 |
| 90° | 9 | 8 | 1 | 8 | 9 | 6 |
| 95° | 35 | 180 | 10 | 180 | 35 | 57 |
| 105° | 387 | 245 | 35 | 245 | 387 | 386 |
| 115° | 471 | 187 | 62 | 187 | 471 | 459 |
| 125° | 371 | 175 | 87 | 175 | 371 | 336 |
| 135° | 301 | 172 | 102 | 172 | 301 | 233 |
| 145° | 235 | 170 | 116 | 170 | 235 | 149 |
| 155° | 195 | 165 | 132 | 165 | 195 | 91 |
| 165° | 170 | 158 | 144 | 158 | 170 | 49 |
| 175° | 153 | 151 | 150 | 151 | 153 | 15 |
| 180° | 150 | 150 | 150 | 150 | 150 | |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 |
| 2.5° | 3096.4 | 3086.6 | 3076.9 | 3074.0 | 3071.2 | 3062.0 | 3052.8 | 3032.2 | 3011.6 | 2990.4 | 2969.2 |
| 5° | 3304.9 | 3306.0 | 3307.2 | 3304.3 | 3301.4 | 3289.4 | 3277.4 | 3252.2 | 3227.0 | 3199.5 | 3172.0 |
| 7.5° | 3240.7 | 3259.0 | 3277.4 | 3280.8 | 3284.2 | 3293.4 | 3302.6 | 3296.8 | 3291.1 | 3280.8 | 3270.5 |
| 10° | 2960.1 | 2958.9 | 2957.8 | 2978.4 | 2999.0 | 3060.3 | 3121.6 | 3153.1 | 3184.6 | 3212.6 | 3240.7 |
| 12.5° | 2501.8 | 2503.6 | 2505.3 | 2572.9 | 2640.5 | 2698.3 | 2756.2 | 2836.3 | 2916.5 | 3003.0 | 3089.5 |
| 15° | 1999.0 | 2027.0 | 2055.1 | 2115.2 | 2175.4 | 2262.4 | 2349.5 | 2457.2 | 2564.8 | 2701.7 | 2838.6 |
| 17.5° | 1641.5 | 1653.6 | 1665.6 | 1723.5 | 1781.3 | 1863.8 | 1946.3 | 2068.3 | 2190.3 | 2366.7 | 2543.1 |
| 20° | 1352.9 | 1363.8 | 1374.6 | 1416.5 | 1458.3 | 1537.3 | 1616.3 | 1732.6 | 1848.9 | 2023.6 | 2198.3 |
| 22.5° | 1129.5 | 1150.7 | 1171.9 | 1199.9 | 1228.0 | 1285.3 | 1342.6 | 1461.1 | 1579.7 | 1738.9 | 1898.1 |
| 25° | 994.3 | 1004.1 | 1013.8 | 1037.9 | 1061.9 | 1116.9 | 1171.9 | 1250.3 | 1328.8 | 1487.5 | 1646.1 |
| 27.5° | 902.7 | 905.5 | 908.4 | 926.2 | 943.9 | 979.4 | 1014.9 | 1087.7 | 1160.4 | 1291.0 | 1421.6 |
| 30° | 827.1 | 832.2 | 837.4 | 851.1 | 864.9 | 890.7 | 916.4 | 968.0 | 1019.5 | 1136.4 | 1253.2 |
| 32.5° | 768.7 | 771.5 | 774.4 | 785.8 | 797.3 | 816.2 | 835.1 | 875.8 | 916.4 | 1005.8 | 1095.1 |
| 35° | 718.2 | 718.8 | 719.4 | 728.0 | 736.6 | 754.9 | 773.2 | 807.0 | 840.8 | 906.7 | 972.6 |
| 37.5° | 661.0 | 665.0 | 669.0 | 675.3 | 681.6 | 697.6 | 713.7 | 741.2 | 768.7 | 823.1 | 877.5 |
| 40° | 612.9 | 616.3 | 619.7 | 627.2 | 634.6 | 647.2 | 659.8 | 685.0 | 710.2 | 757.2 | 804.2 |
| 42.5° | 564.7 | 567.0 | 569.3 | 576.8 | 584.2 | 599.7 | 615.2 | 635.2 | 655.2 | 694.2 | 733.1 |
| 45° | 510.9 | 516.6 | 522.4 | 530.4 | 538.4 | 551.6 | 564.7 | 585.4 | 606.0 | 639.2 | 672.4 |
| 47.5° | 466.2 | 469.1 | 472.0 | 478.8 | 485.7 | 501.7 | 517.8 | 536.1 | 554.4 | 585.4 | 616.3 |
| 50° | 421.6 | 422.7 | 423.8 | 430.1 | 436.4 | 450.8 | 465.1 | 486.3 | 507.5 | 536.1 | 564.7 |
| 52.5° | 379.2 | 382.0 | 384.9 | 391.2 | 397.5 | 407.2 | 417.0 | 438.7 | 460.5 | 488.6 | 516.6 |
| 55° | 340.2 | 341.9 | 343.7 | 348.2 | 352.8 | 364.3 | 375.7 | 394.6 | 413.5 | 439.3 | 465.1 |
| 57.5° | 303.6 | 305.9 | 308.1 | 311.6 | 315.0 | 325.3 | 335.6 | 352.3 | 368.9 | 394.6 | 420.4 |
| 60° | 265.8 | 268.6 | 271.5 | 275.5 | 279.5 | 287.5 | 295.5 | 310.4 | 325.3 | 348.2 | 371.2 |
| 62.5° | 238.3 | 238.8 | 239.4 | 242.9 | 246.3 | 252.0 | 257.7 | 269.8 | 281.8 | 304.7 | 327.6 |
| 65° | 207.3 | 209.1 | 210.8 | 212.5 | 214.2 | 218.8 | 223.4 | 233.7 | 244.0 | 261.2 | 278.4 |
| 67.5° | 175.3 | 177.0 | 178.7 | 181.6 | 184.4 | 188.4 | 192.4 | 199.3 | 206.2 | 222.2 | 238.3 |
| 70° | 136.3 | 136.3 | 136.3 | 140.9 | 145.5 | 152.4 | 159.2 | 164.4 | 169.5 | 182.7 | 195.9 |
| 72.5° | 111.1 | 111.7 | 112.3 | 112.8 | 113.4 | 117.4 | 121.4 | 130.0 | 138.6 | 146.6 | 154.6 |
| 75° | 90.5 | 91.1 | 91.6 | 92.2 | 92.8 | 93.9 | 95.1 | 97.9 | 100.8 | 110.0 | 119.1 |
| 77.5° | 72.2 | 72.7 | 73.3 | 73.9 | 74.5 | 75.6 | 76.8 | 77.9 | 79.0 | 82.5 | 85.9 |
| 80° | 55.0 | 55.6 | 56.1 | 56.7 | 57.3 | 57.8 | 58.4 | 59.6 | 60.7 | 62.4 | 64.1 |
| 82.5° | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 41.2 | 42.4 | 42.4 | 42.4 | 43.5 | 44.7 |
| 85° | 25.2 | 25.2 | 25.2 | 25.8 | 26.3 | 26.3 | 26.3 | 26.9 | 27.5 | 27.5 | 27.5 |
| 87.5° | 11.5 | 10.9 | 10.3 | 10.9 | 11.5 | 11.5 | 11.5 | 12.0 | 12.6 | 12.6 | 12.6 |
| 90° | 8.8 | 9.1 | 8.8 | 8.5 | 8.8 | 8.2 | 7.9 | 7.6 | 7.3 | 7.6 | 6.7 |
| 92.5° | 16.1 | 16.7 | 16.4 | 17.6 | 18.3 | 20.4 | 23.4 | 30.1 | 42.3 | 56.6 | 62.7 |
| 95° | 35.3 | 36.5 | 38.6 | 41.4 | 47.2 | 58.1 | 74.2 | 109.5 | 146.3 | 180.4 | 160.6 |
| 97.5° | 72.4 | 75.8 | 83.1 | 94.6 | 115.0 | 149.7 | 189.9 | 251.6 | 286.9 | 277.5 | 207.2 |
| 100° | 190.8 | 190.5 | 202.3 | 224.5 | 255.3 | 298.5 | 334.1 | 358.7 | 348.1 | 288.1 | 194.7 |
| 102.5° | 302.1 | 311.0 | 320.4 | 336.8 | 359.0 | 382.5 | 399.5 | 394.3 | 351.1 | 268.4 | 176.5 |
| 105° | 387.0 | 388.5 | 398.3 | 409.8 | 423.8 | 431.7 | 426.0 | 395.5 | 331.9 | 244.6 | 162.2 |
| 107.5° | 442.4 | 445.7 | 449.7 | 455.2 | 457.0 | 448.8 | 425.1 | 377.3 | 304.6 | 223.6 | 151.8 |
| 110° | 474.0 | 474.6 | 475.3 | 472.8 | 464.3 | 443.0 | 404.7 | 348.7 | 279.0 | 206.3 | 146.3 |

TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 480.4 | 480.1 | 477.1 | 468.3 | 450.9 | 422.0 | 377.9 | 320.4 | 256.8 | 194.7 | 143.3 |
| 115° | 470.7 | 469.2 | 463.1 | 449.7 | 426.9 | 393.7 | 349.0 | 296.0 | 239.8 | 187.1 | 143.0 |
| 117.5° | 449.4 | 447.3 | 438.1 | 423.2 | 399.5 | 365.1 | 324.0 | 277.2 | 228.5 | 181.9 | 143.3 |
| 120° | 421.4 | 419.6 | 412.3 | 395.2 | 371.2 | 340.5 | 304.0 | 262.9 | 220.0 | 178.6 | 144.5 |
| 122.5° | 395.2 | 392.8 | 384.6 | 369.7 | 349.0 | 321.0 | 287.8 | 251.6 | 213.0 | 176.5 | 146.7 |
| 125° | 371.2 | 369.1 | 361.5 | 348.1 | 328.6 | 304.3 | 275.1 | 241.9 | 207.2 | 174.6 | 148.8 |
| 127.5° | 350.5 | 348.7 | 341.7 | 330.1 | 312.5 | 290.0 | 263.2 | 233.1 | 201.7 | 173.7 | 151.2 |
| 130° | 333.5 | 331.0 | 324.6 | 313.7 | 297.6 | 276.9 | 252.2 | 224.8 | 197.5 | 172.8 | 153.7 |
| 132.5° | 316.7 | 315.2 | 309.7 | 298.8 | 283.9 | 264.4 | 241.9 | 217.2 | 193.5 | 172.5 | 155.5 |
| 135° | 300.9 | 298.8 | 293.3 | 284.2 | 269.3 | 251.9 | 232.2 | 210.5 | 190.2 | 172.2 | 157.3 |
| 137.5° | 284.2 | 282.4 | 277.8 | 268.4 | 255.6 | 240.1 | 222.4 | 204.2 | 187.1 | 171.6 | 158.5 |
| 140° | 266.5 | 266.8 | 262.0 | 253.4 | 241.9 | 228.8 | 214.2 | 198.7 | 184.4 | 171.3 | 159.7 |
| 142.5° | 250.1 | 250.4 | 246.1 | 238.8 | 229.4 | 218.5 | 206.3 | 193.5 | 181.9 | 170.7 | 160.6 |
| 145° | 235.2 | 234.6 | 232.2 | 225.8 | 218.2 | 209.3 | 199.6 | 189.6 | 179.8 | 170.1 | 161.0 |
| 147.5° | 222.4 | 222.1 | 219.7 | 215.1 | 209.0 | 202.6 | 194.4 | 186.2 | 177.7 | 169.2 | 161.0 |
| 150° | 211.5 | 211.5 | 209.6 | 206.3 | 201.7 | 195.9 | 189.6 | 182.6 | 175.6 | 168.0 | 161.0 |
| 152.5° | 202.3 | 202.3 | 201.4 | 198.4 | 195.0 | 190.5 | 185.0 | 179.2 | 173.1 | 166.4 | 160.0 |
| 155° | 195.0 | 194.7 | 194.1 | 191.7 | 188.9 | 185.3 | 180.7 | 175.9 | 170.7 | 164.6 | 159.4 |
| 157.5° | 188.0 | 188.0 | 187.4 | 185.6 | 183.2 | 180.1 | 176.5 | 172.2 | 168.0 | 163.1 | 158.5 |
| 160° | 181.3 | 181.6 | 181.6 | 179.8 | 177.7 | 175.6 | 172.5 | 169.2 | 165.2 | 161.3 | 157.9 |
| 162.5° | 175.3 | 175.6 | 175.6 | 174.0 | 172.8 | 171.0 | 168.3 | 165.5 | 162.5 | 159.4 | 156.7 |
| 165° | 170.1 | 170.1 | 170.4 | 169.2 | 168.0 | 166.4 | 164.3 | 162.5 | 160.0 | 157.6 | 155.5 |
| 167.5° | 164.9 | 164.9 | 165.2 | 164.3 | 163.7 | 162.5 | 161.3 | 159.7 | 157.6 | 155.8 | 154.3 |
| 170° | 160.3 | 160.3 | 160.6 | 160.0 | 159.7 | 159.1 | 157.9 | 157.0 | 155.5 | 154.0 | 153.0 |
| 172.5° | 156.1 | 156.4 | 157.0 | 156.4 | 156.4 | 156.1 | 155.2 | 154.6 | 153.3 | 152.4 | 152.1 |
| 175° | 153.0 | 153.3 | 153.7 | 153.3 | 153.3 | 153.3 | 152.7 | 152.4 | 151.8 | 151.2 | 151.2 |
| 177.5° | 150.9 | 150.9 | 151.5 | 151.2 | 151.5 | 151.5 | 151.2 | 150.9 | 150.6 | 150.3 | 150.6 |
| 180° | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 |
| 2.5° | 2966.4 | 2963.5 | 2936.0 | 2908.5 | 2881.6 | 2854.7 | 2834.6 | 2814.6 | 2780.8 | 2747.0 | 2725.8 |
| 5° | 3150.2 | 3128.5 | 3084.9 | 3041.4 | 2976.1 | 2910.8 | 2855.8 | 2800.8 | 2731.0 | 2661.1 | 2602.7 |
| 7.5° | 3252.7 | 3235.0 | 3182.3 | 3129.6 | 3043.1 | 2956.6 | 2870.7 | 2784.8 | 2681.7 | 2578.6 | 2490.4 |
| 10° | 3255.6 | 3270.5 | 3227.0 | 3183.4 | 3086.1 | 2988.7 | 2871.9 | 2755.0 | 2616.4 | 2477.8 | 2363.8 |
| 12.5° | 3153.7 | 3217.8 | 3208.6 | 3199.5 | 3100.4 | 3001.3 | 2859.3 | 2717.2 | 2547.1 | 2377.0 | 2234.4 |
| 15° | 2962.9 | 3087.2 | 3123.9 | 3160.5 | 3078.6 | 2996.7 | 2835.2 | 2673.7 | 2473.8 | 2273.9 | 2110.1 |
| 17.5° | 2717.2 | 2891.3 | 2988.1 | 3084.9 | 3025.4 | 2965.8 | 2788.8 | 2611.8 | 2386.7 | 2161.6 | 1983.5 |
| 20° | 2426.2 | 2654.2 | 2806.0 | 2957.8 | 2936.0 | 2914.2 | 2731.5 | 2548.8 | 2306.0 | 2063.1 | 1870.1 |
| 22.5° | 2138.7 | 2379.3 | 2588.9 | 2798.5 | 2820.9 | 2843.2 | 2658.8 | 2474.4 | 2208.6 | 1942.8 | 1746.4 |
| 25° | 1890.7 | 2135.3 | 2385.0 | 2634.7 | 2685.1 | 2735.5 | 2560.3 | 2385.0 | 2109.5 | 1834.0 | 1638.7 |
| 27.5° | 1654.2 | 1886.7 | 2161.6 | 2436.5 | 2528.2 | 2619.8 | 2459.5 | 2299.1 | 2012.1 | 1725.2 | 1530.4 |
| 30° | 1461.1 | 1669.0 | 1949.7 | 2230.4 | 2358.1 | 2485.8 | 2338.6 | 2191.4 | 1906.7 | 1622.1 | 1431.3 |
| 32.5° | 1281.3 | 1467.4 | 1749.2 | 2031.0 | 2179.4 | 2327.7 | 2200.6 | 2073.4 | 1799.6 | 1525.9 | 1337.4 |
| 35° | 1139.2 | 1305.9 | 1568.8 | 1831.7 | 1997.8 | 2163.9 | 2059.7 | 1955.4 | 1687.9 | 1420.5 | 1242.3 |
| 37.5° | 1017.2 | 1157.0 | 1403.9 | 1650.7 | 1827.1 | 2003.5 | 1916.5 | 1829.4 | 1578.0 | 1326.5 | 1158.1 |
| 40° | 916.4 | 1028.7 | 1258.4 | 1488.0 | 1661.0 | 1834.0 | 1759.5 | 1685.1 | 1460.0 | 1234.9 | 1077.4 |
| 42.5° | 829.9 | 926.7 | 1132.9 | 1339.1 | 1497.8 | 1656.4 | 1607.2 | 1557.9 | 1354.0 | 1150.1 | 1004.1 |
| 45° | 753.8 | 835.1 | 1016.7 | 1198.2 | 1344.3 | 1490.3 | 1451.4 | 1412.4 | 1236.6 | 1060.8 | 926.7 |
| 47.5° | 686.2 | 756.1 | 918.1 | 1080.2 | 1211.4 | 1342.6 | 1306.5 | 1270.4 | 1124.9 | 979.4 | 857.4 |
| 50° | 624.3 | 683.9 | 819.1 | 954.2 | 1072.2 | 1190.2 | 1160.4 | 1130.6 | 1010.4 | 890.1 | 784.7 |
| 52.5° | 565.9 | 615.2 | 736.6 | 858.0 | 953.1 | 1048.2 | 1025.3 | 1002.3 | 909.6 | 816.8 | 721.1 |
| 55° | 510.3 | 555.6 | 658.1 | 760.6 | 842.0 | 923.3 | 900.4 | 877.5 | 805.3 | 733.1 | 648.9 |
| 57.5° | 459.9 | 499.5 | 582.5 | 665.6 | 730.3 | 795.0 | 784.1 | 773.2 | 713.1 | 653.0 | 583.6 |
| 60° | 406.7 | 442.2 | 513.8 | 585.4 | 637.5 | 689.6 | 677.0 | 664.4 | 621.5 | 578.5 | 518.9 |
| 62.5° | 359.1 | 390.6 | 447.9 | 505.2 | 547.6 | 589.9 | 580.8 | 571.6 | 539.0 | 506.3 | 457.1 |
| 65° | 309.3 | 340.2 | 386.6 | 433.0 | 466.2 | 499.5 | 491.4 | 483.4 | 458.8 | 434.2 | 394.6 |
| 67.5° | 264.0 | 289.8 | 329.9 | 370.0 | 392.3 | 414.7 | 410.1 | 405.5 | 386.6 | 367.7 | 336.8 |
| 70° | 218.2 | 240.6 | 273.8 | 307.0 | 322.5 | 337.9 | 339.7 | 341.4 | 324.2 | 307.0 | 284.1 |
| 72.5° | 172.4 | 190.2 | 221.1 | 252.0 | 264.0 | 276.1 | 275.5 | 274.9 | 264.6 | 254.3 | 233.7 |
| 75° | 132.3 | 145.5 | 169.5 | 193.6 | 203.9 | 214.2 | 216.5 | 218.8 | 209.1 | 199.3 | 187.9 |
| 77.5° | 95.1 | 104.2 | 122.6 | 140.9 | 152.4 | 163.8 | 165.0 | 166.1 | 161.5 | 156.9 | 146.1 |
| 80° | 67.0 | 69.9 | 81.3 | 92.8 | 104.8 | 116.8 | 118.6 | 120.3 | 115.7 | 111.1 | 104.2 |
| 82.5° | 46.4 | 48.1 | 52.1 | 56.1 | 65.9 | 75.6 | 77.9 | 80.2 | 77.9 | 75.6 | 68.2 |
| 85° | 28.1 | 28.6 | 30.4 | 32.1 | 36.7 | 41.2 | 43.5 | 45.8 | 44.7 | 43.5 | 39.5 |
| 87.5° | 12.6 | 12.6 | 13.2 | 13.7 | 14.9 | 16.0 | 18.9 | 21.8 | 20.0 | 18.3 | 16.6 |
| 90° | 5.8 | 4.9 | 4.0 | 3.3 | 2.7 | 1.8 | 1.2 | 0.6 | 1.2 | 1.8 | 2.7 |
| 92.5° | 46.9 | 30.7 | 21.0 | 15.5 | 12.5 | 9.7 | 6.7 | 4.6 | 6.7 | 9.7 | 12.5 |
| 95° | 110.8 | 65.4 | 39.6 | 27.7 | 19.8 | 14.6 | 11.3 | 10.3 | 11.3 | 14.6 | 19.8 |
| 97.5° | 123.2 | 70.6 | 45.0 | 31.9 | 24.0 | 19.5 | 16.7 | 16.4 | 16.7 | 19.5 | 24.0 |
| 100° | 114.7 | 69.7 | 48.4 | 36.5 | 29.2 | 24.9 | 22.8 | 22.5 | 22.8 | 24.9 | 29.2 |
| 102.5° | 107.4 | 70.9 | 52.3 | 41.7 | 35.3 | 31.3 | 29.5 | 28.9 | 29.5 | 31.3 | 35.3 |
| 105° | 104.7 | 73.3 | 56.9 | 47.5 | 41.7 | 38.0 | 36.2 | 35.3 | 36.2 | 38.0 | 41.7 |
| 107.5° | 104.1 | 77.3 | 62.7 | 53.9 | 48.4 | 44.7 | 42.9 | 42.0 | 42.9 | 44.7 | 48.4 |
| 110° | 105.6 | 82.5 | 68.8 | 60.2 | 55.1 | 51.7 | 50.2 | 49.3 | 50.2 | 51.7 | 55.1 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 108.6 | 87.6 | 75.2 | 66.9 | 61.8 | 58.4 | 56.9 | 56.0 | 56.9 | 58.4 | 61.8 |
| 115° | 112.0 | 93.4 | 81.8 | 73.6 | 68.5 | 65.4 | 63.6 | 62.4 | 63.6 | 65.4 | 68.5 |
| 117.5° | 116.2 | 99.5 | 87.9 | 80.3 | 74.5 | 71.8 | 70.3 | 68.8 | 70.3 | 71.8 | 74.5 |
| 120° | 121.1 | 105.3 | 94.3 | 86.7 | 80.9 | 77.9 | 76.4 | 75.5 | 76.4 | 77.9 | 80.9 |
| 122.5° | 125.7 | 111.4 | 100.7 | 92.5 | 87.0 | 83.7 | 82.2 | 81.2 | 82.2 | 83.7 | 87.0 |
| 125° | 130.5 | 117.1 | 106.5 | 98.3 | 92.5 | 89.1 | 87.3 | 86.7 | 87.3 | 89.1 | 92.5 |
| 127.5° | 134.5 | 122.3 | 112.0 | 103.8 | 97.4 | 94.0 | 91.9 | 91.0 | 91.9 | 94.0 | 97.4 |
| 130° | 138.4 | 126.9 | 116.8 | 108.6 | 102.2 | 98.6 | 95.8 | 94.9 | 95.8 | 98.6 | 102.2 |
| 132.5° | 142.1 | 130.8 | 121.1 | 113.2 | 106.8 | 102.2 | 99.2 | 98.0 | 99.2 | 102.2 | 106.8 |
| 135° | 145.1 | 134.8 | 125.4 | 117.1 | 110.8 | 106.2 | 102.8 | 101.6 | 102.8 | 106.2 | 110.8 |
| 137.5° | 147.6 | 137.5 | 128.4 | 120.8 | 114.4 | 109.5 | 106.2 | 105.0 | 106.2 | 109.5 | 114.4 |
| 140° | 149.4 | 140.3 | 131.4 | 123.8 | 117.7 | 112.9 | 109.8 | 108.3 | 109.8 | 112.9 | 117.7 |
| 142.5° | 151.2 | 142.4 | 133.9 | 126.9 | 120.8 | 116.5 | 113.2 | 112.0 | 113.2 | 116.5 | 120.8 |
| 145° | 152.4 | 144.2 | 136.3 | 129.3 | 124.1 | 119.6 | 116.8 | 115.9 | 116.8 | 119.6 | 124.1 |
| 147.5° | 153.3 | 145.7 | 138.4 | 132.4 | 127.2 | 123.2 | 120.5 | 119.9 | 120.5 | 123.2 | 127.2 |
| 150° | 153.7 | 147.3 | 140.3 | 134.8 | 130.5 | 126.6 | 124.1 | 123.8 | 124.1 | 126.6 | 130.5 |
| 152.5° | 154.3 | 148.2 | 142.4 | 137.2 | 133.6 | 130.2 | 127.8 | 127.8 | 127.8 | 130.2 | 133.6 |
| 155° | 154.3 | 149.4 | 144.2 | 140.0 | 136.6 | 133.6 | 131.7 | 131.7 | 131.7 | 133.6 | 136.6 |
| 157.5° | 154.6 | 150.0 | 145.7 | 142.4 | 139.4 | 136.6 | 135.1 | 134.8 | 135.1 | 136.6 | 139.4 |
| 160° | 154.6 | 150.9 | 147.3 | 144.2 | 142.1 | 139.7 | 138.4 | 138.4 | 138.4 | 139.7 | 142.1 |
| 162.5° | 154.3 | 151.2 | 148.2 | 145.7 | 143.9 | 142.1 | 141.2 | 141.2 | 141.2 | 142.1 | 143.9 |
| 165° | 153.7 | 151.5 | 149.1 | 147.0 | 145.7 | 144.2 | 143.6 | 143.9 | 143.6 | 144.2 | 145.7 |
| 167.5° | 153.3 | 151.5 | 149.7 | 148.2 | 147.3 | 146.0 | 145.7 | 146.0 | 145.7 | 146.0 | 147.3 |
| 170° | 152.4 | 151.2 | 149.7 | 149.1 | 148.5 | 147.6 | 147.3 | 147.9 | 147.3 | 147.6 | 148.5 |
| 172.5° | 152.1 | 151.2 | 150.0 | 149.7 | 149.4 | 148.8 | 148.8 | 149.1 | 148.8 | 148.8 | 149.4 |
| 175° | 151.5 | 150.9 | 150.3 | 150.0 | 150.0 | 149.4 | 149.7 | 150.0 | 149.7 | 149.4 | 150.0 |
| 177.5° | 151.2 | 150.6 | 150.3 | 150.3 | 150.3 | 150.0 | 150.3 | 150.6 | 150.3 | 150.0 | 150.3 |
| 180° | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 |
| 2.5° | 2704.6 | 2672.0 | 2639.3 | 2615.8 | 2592.3 | 2563.1 | 2533.9 | 2532.8 | 2531.6 | 2509.9 | 2488.1 |
| 5° | 2544.2 | 2487.5 | 2430.8 | 2375.3 | 2319.7 | 2264.1 | 2208.6 | 2196.0 | 2183.4 | 2164.5 | 2145.6 |
| 7.5° | 2402.2 | 2311.7 | 2221.2 | 2150.2 | 2079.1 | 2023.6 | 1968.0 | 1930.2 | 1892.4 | 1863.2 | 1834.0 |
| 10° | 2249.8 | 2137.6 | 2025.3 | 1939.4 | 1853.5 | 1793.3 | 1733.2 | 1689.7 | 1646.1 | 1625.5 | 1604.9 |
| 12.5° | 2091.7 | 1969.7 | 1847.7 | 1763.5 | 1679.4 | 1607.2 | 1535.0 | 1495.5 | 1456.0 | 1427.3 | 1398.7 |
| 15° | 1946.3 | 1815.1 | 1683.9 | 1594.6 | 1505.2 | 1437.6 | 1370.1 | 1330.5 | 1291.0 | 1262.4 | 1233.7 |
| 17.5° | 1805.4 | 1673.1 | 1540.7 | 1450.2 | 1359.7 | 1298.5 | 1237.2 | 1198.8 | 1160.4 | 1142.7 | 1124.9 |
| 20° | 1677.1 | 1543.6 | 1410.2 | 1324.8 | 1239.5 | 1179.3 | 1119.2 | 1098.6 | 1077.9 | 1061.3 | 1044.7 |
| 22.5° | 1549.9 | 1421.6 | 1293.3 | 1211.4 | 1129.5 | 1086.0 | 1042.4 | 1025.8 | 1009.2 | 996.6 | 984.0 |
| 25° | 1443.4 | 1315.6 | 1187.9 | 1116.3 | 1044.7 | 1010.9 | 977.1 | 966.3 | 955.4 | 942.8 | 930.2 |
| 27.5° | 1335.7 | 1214.3 | 1092.8 | 1035.6 | 978.3 | 950.8 | 923.3 | 909.6 | 895.8 | 885.5 | 875.2 |
| 30° | 1240.6 | 1128.4 | 1016.1 | 968.5 | 921.0 | 897.0 | 872.9 | 858.0 | 843.1 | 833.4 | 823.6 |
| 32.5° | 1149.0 | 1049.3 | 949.6 | 909.0 | 868.3 | 844.8 | 821.3 | 807.0 | 792.7 | 781.3 | 769.8 |
| 35° | 1064.2 | 977.7 | 891.2 | 854.0 | 816.8 | 793.3 | 769.8 | 755.5 | 741.2 | 729.7 | 718.2 |
| 37.5° | 989.7 | 911.3 | 832.8 | 797.9 | 762.9 | 742.3 | 721.7 | 706.8 | 691.9 | 679.9 | 667.8 |
| 40° | 919.9 | 850.6 | 781.3 | 747.5 | 713.7 | 691.3 | 669.0 | 655.8 | 642.6 | 631.8 | 620.9 |
| 42.5° | 858.0 | 794.4 | 730.9 | 697.6 | 664.4 | 643.2 | 622.0 | 606.6 | 591.1 | 584.8 | 578.5 |
| 45° | 792.7 | 736.6 | 680.4 | 648.4 | 616.3 | 594.0 | 571.6 | 558.4 | 545.3 | 539.5 | 533.8 |
| 47.5° | 735.4 | 683.3 | 631.2 | 599.7 | 568.2 | 548.1 | 528.1 | 517.8 | 507.5 | 499.5 | 491.4 |
| 50° | 679.3 | 628.9 | 578.5 | 548.1 | 517.8 | 500.6 | 483.4 | 470.8 | 458.2 | 452.5 | 446.8 |
| 52.5° | 625.5 | 579.6 | 533.8 | 502.9 | 472.0 | 455.3 | 438.7 | 427.9 | 417.0 | 404.9 | 392.9 |
| 55° | 564.7 | 524.7 | 484.6 | 457.1 | 429.6 | 412.4 | 395.2 | 382.6 | 370.0 | 357.4 | 344.8 |
| 57.5° | 514.3 | 474.8 | 435.3 | 410.7 | 386.0 | 369.4 | 352.8 | 339.1 | 325.3 | 315.0 | 304.7 |
| 60° | 459.4 | 425.0 | 390.6 | 366.6 | 342.5 | 326.5 | 310.4 | 297.3 | 284.1 | 278.9 | 273.8 |
| 62.5° | 407.8 | 375.7 | 343.7 | 322.5 | 301.3 | 285.8 | 270.3 | 261.8 | 253.2 | 249.7 | 246.3 |
| 65° | 355.1 | 327.6 | 300.1 | 280.7 | 261.2 | 248.0 | 234.8 | 230.8 | 226.8 | 224.0 | 221.1 |
| 67.5° | 305.9 | 282.4 | 258.9 | 241.7 | 224.5 | 215.4 | 206.2 | 201.6 | 197.0 | 193.6 | 190.2 |
| 70° | 261.2 | 240.6 | 219.9 | 205.1 | 190.2 | 181.6 | 173.0 | 169.0 | 165.0 | 158.7 | 152.4 |
| 72.5° | 213.1 | 197.0 | 181.0 | 169.5 | 158.1 | 150.6 | 143.2 | 135.2 | 127.2 | 121.4 | 115.7 |
| 75° | 176.4 | 160.4 | 144.3 | 133.5 | 122.6 | 114.0 | 105.4 | 102.5 | 99.7 | 97.9 | 96.2 |
| 77.5° | 135.2 | 121.4 | 107.7 | 99.1 | 90.5 | 86.5 | 82.5 | 80.8 | 79.0 | 78.5 | 77.9 |
| 80° | 97.4 | 85.9 | 74.5 | 69.9 | 65.3 | 64.1 | 63.0 | 61.9 | 60.7 | 60.1 | 59.6 |
| 82.5° | 60.7 | 55.0 | 49.3 | 48.1 | 47.0 | 46.4 | 45.8 | 45.2 | 44.7 | 44.1 | 43.5 |
| 85° | 35.5 | 33.2 | 30.9 | 30.4 | 29.8 | 29.2 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 |
| 87.5° | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.3 | 13.7 |
| 90° | 3.3 | 4.0 | 4.9 | 5.8 | 6.7 | 7.6 | 7.3 | 7.6 | 7.9 | 8.2 | 8.8 |
| 92.5° | 15.5 | 21.0 | 30.7 | 46.9 | 62.7 | 56.6 | 42.3 | 30.1 | 23.4 | 20.4 | 18.3 |
| 95° | 27.7 | 39.6 | 65.4 | 110.8 | 160.6 | 180.4 | 146.3 | 109.5 | 74.2 | 58.1 | 47.2 |
| 97.5° | 31.9 | 45.0 | 70.6 | 123.2 | 207.2 | 277.5 | 286.9 | 251.6 | 189.9 | 149.7 | 115.0 |
| 100° | 36.5 | 48.4 | 69.7 | 114.7 | 194.7 | 288.1 | 348.1 | 358.7 | 334.1 | 298.5 | 255.3 |
| 102.5° | 41.7 | 52.3 | 70.9 | 107.4 | 176.5 | 268.4 | 351.1 | 394.3 | 399.5 | 382.5 | 359.0 |
| 105° | 47.5 | 56.9 | 73.3 | 104.7 | 162.2 | 244.6 | 331.9 | 395.5 | 426.0 | 431.7 | 423.8 |
| 107.5° | 53.9 | 62.7 | 77.3 | 104.1 | 151.8 | 223.6 | 304.6 | 377.3 | 425.1 | 448.8 | 457.0 |
| 110° | 60.2 | 68.8 | 82.5 | 105.6 | 146.3 | 206.3 | 279.0 | 348.7 | 404.7 | 443.0 | 464.3 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 66.9 | 75.2 | 87.6 | 108.6 | 143.3 | 194.7 | 256.8 | 320.4 | 377.9 | 422.0 | 450.9 |
| 115° | 73.6 | 81.8 | 93.4 | 112.0 | 143.0 | 187.1 | 239.8 | 296.0 | 349.0 | 393.7 | 426.9 |
| 117.5° | 80.3 | 87.9 | 99.5 | 116.2 | 143.3 | 181.9 | 228.5 | 277.2 | 324.0 | 365.1 | 399.5 |
| 120° | 86.7 | 94.3 | 105.3 | 121.1 | 144.5 | 178.6 | 220.0 | 262.9 | 304.0 | 340.5 | 371.2 |
| 122.5° | 92.5 | 100.7 | 111.4 | 125.7 | 146.7 | 176.5 | 213.0 | 251.6 | 287.8 | 321.0 | 349.0 |
| 125° | 98.3 | 106.5 | 117.1 | 130.5 | 148.8 | 174.6 | 207.2 | 241.9 | 275.1 | 304.3 | 328.6 |
| 127.5° | 103.8 | 112.0 | 122.3 | 134.5 | 151.2 | 173.7 | 201.7 | 233.1 | 263.2 | 290.0 | 312.5 |
| 130° | 108.6 | 116.8 | 126.9 | 138.4 | 153.7 | 172.8 | 197.5 | 224.8 | 252.2 | 276.9 | 297.6 |
| 132.5° | 113.2 | 121.1 | 130.8 | 142.1 | 155.5 | 172.5 | 193.5 | 217.2 | 241.9 | 264.4 | 283.9 |
| 135° | 117.1 | 125.4 | 134.8 | 145.1 | 157.3 | 172.2 | 190.2 | 210.5 | 232.2 | 251.9 | 269.3 |
| 137.5° | 120.8 | 128.4 | 137.5 | 147.6 | 158.5 | 171.6 | 187.1 | 204.2 | 222.4 | 240.1 | 255.6 |
| 140° | 123.8 | 131.4 | 140.3 | 149.4 | 159.7 | 171.3 | 184.4 | 198.7 | 214.2 | 228.8 | 241.9 |
| 142.5° | 126.9 | 133.9 | 142.4 | 151.2 | 160.6 | 170.7 | 181.9 | 193.5 | 206.3 | 218.5 | 229.4 |
| 145° | 129.3 | 136.3 | 144.2 | 152.4 | 161.0 | 170.1 | 179.8 | 189.6 | 199.6 | 209.3 | 218.2 |
| 147.5° | 132.4 | 138.4 | 145.7 | 153.3 | 161.0 | 169.2 | 177.7 | 186.2 | 194.4 | 202.6 | 209.0 |
| 150° | 134.8 | 140.3 | 147.3 | 153.7 | 161.0 | 168.0 | 175.6 | 182.6 | 189.6 | 195.9 | 201.7 |
| 152.5° | 137.2 | 142.4 | 148.2 | 154.3 | 160.0 | 166.4 | 173.1 | 179.2 | 185.0 | 190.5 | 195.0 |
| 155° | 140.0 | 144.2 | 149.4 | 154.3 | 159.4 | 164.6 | 170.7 | 175.9 | 180.7 | 185.3 | 188.9 |
| 157.5° | 142.4 | 145.7 | 150.0 | 154.6 | 158.5 | 163.1 | 168.0 | 172.2 | 176.5 | 180.1 | 183.2 |
| 160° | 144.2 | 147.3 | 150.9 | 154.6 | 157.9 | 161.3 | 165.2 | 169.2 | 172.5 | 175.6 | 177.7 |
| 162.5° | 145.7 | 148.2 | 151.2 | 154.3 | 156.7 | 159.4 | 162.5 | 165.5 | 168.3 | 171.0 | 172.8 |
| 165° | 147.0 | 149.1 | 151.5 | 153.7 | 155.5 | 157.6 | 160.0 | 162.5 | 164.3 | 166.4 | 168.0 |
| 167.5° | 148.2 | 149.7 | 151.5 | 153.3 | 154.3 | 155.8 | 157.6 | 159.7 | 161.3 | 162.5 | 163.7 |
| 170° | 149.1 | 149.7 | 151.2 | 152.4 | 153.0 | 154.0 | 155.5 | 157.0 | 157.9 | 159.1 | 159.7 |
| 172.5° | 149.7 | 150.0 | 151.2 | 152.1 | 152.1 | 152.4 | 153.3 | 154.6 | 155.2 | 156.1 | 156.4 |
| 175° | 150.0 | 150.3 | 150.9 | 151.5 | 151.2 | 151.2 | 151.8 | 152.4 | 152.7 | 153.3 | 153.3 |
| 177.5° | 150.3 | 150.3 | 150.6 | 151.2 | 150.6 | 150.3 | 150.6 | 150.9 | 151.2 | 151.5 | 151.5 |
| 180° | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 | 150.3 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2794.0 | 2794.0 | 2794.0 | 2794.0 |
| 2.5° | 2482.4 | 2476.6 | 2474.4 | 2472.1 |
| 5° | 2127.8 | 2110.1 | 2106.1 | 2102.1 |
| 7.5° | 1826.6 | 1819.1 | 1794.5 | 1769.8 |
| 10° | 1582.0 | 1559.1 | 1548.8 | 1538.5 |
| 12.5° | 1377.5 | 1356.3 | 1352.9 | 1349.4 |
| 15° | 1218.8 | 1204.0 | 1198.8 | 1193.6 |
| 17.5° | 1114.6 | 1104.3 | 1098.0 | 1091.7 |
| 20° | 1037.3 | 1029.8 | 1025.3 | 1020.7 |
| 22.5° | 978.3 | 972.6 | 969.1 | 965.7 |
| 25° | 921.6 | 913.0 | 910.1 | 907.3 |
| 27.5° | 867.7 | 860.3 | 857.4 | 854.6 |
| 30° | 817.3 | 811.0 | 807.0 | 803.0 |
| 32.5° | 762.4 | 754.9 | 752.6 | 750.3 |
| 35° | 713.7 | 709.1 | 706.8 | 704.5 |
| 37.5° | 662.1 | 656.4 | 653.0 | 649.5 |
| 40° | 618.0 | 615.2 | 613.4 | 611.7 |
| 42.5° | 573.3 | 568.2 | 567.6 | 567.0 |
| 45° | 528.7 | 523.5 | 522.4 | 521.2 |
| 47.5° | 486.9 | 482.3 | 481.7 | 481.1 |
| 50° | 440.5 | 434.2 | 429.6 | 425.0 |
| 52.5° | 387.2 | 381.5 | 377.5 | 373.4 |
| 55° | 338.5 | 332.2 | 328.8 | 325.3 |
| 57.5° | 301.8 | 299.0 | 297.3 | 295.5 |
| 60° | 272.1 | 270.3 | 269.2 | 268.1 |
| 62.5° | 244.6 | 242.9 | 242.9 | 242.9 |
| 65° | 219.4 | 217.7 | 215.9 | 214.2 |
| 67.5° | 186.7 | 183.3 | 182.7 | 182.1 |
| 70° | 147.2 | 142.0 | 141.5 | 140.9 |
| 72.5° | 115.1 | 114.6 | 113.4 | 112.3 |
| 75° | 95.1 | 93.9 | 93.9 | 93.9 |
| 77.5° | 76.8 | 75.6 | 75.6 | 75.6 |
| 80° | 59.0 | 58.4 | 59.0 | 59.6 |
| 82.5° | 43.5 | 43.5 | 43.0 | 42.4 |
| 85° | 28.1 | 27.5 | 27.5 | 27.5 |
| 87.5° | 13.7 | 13.7 | 13.7 | 13.7 |
| 90° | 8.5 | 8.8 | 9.1 | 8.8 |
| 92.5° | 17.6 | 16.4 | 16.7 | 16.1 |
| 95° | 41.4 | 38.6 | 36.5 | 35.3 |
| 97.5° | 94.6 | 83.1 | 75.8 | 72.4 |
| 100° | 224.5 | 202.3 | 190.5 | 190.8 |
| 102.5° | 336.8 | 320.4 | 311.0 | 302.1 |
| 105° | 409.8 | 398.3 | 388.5 | 387.0 |
| 107.5° | 455.2 | 449.7 | 445.7 | 442.4 |
| 110° | 472.8 | 475.3 | 474.6 | 474.0 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 468.3 | 477.1 | 480.1 | 480.4 |
| 115° | 449.7 | 463.1 | 469.2 | 470.7 |
| 117.5° | 423.2 | 438.1 | 447.3 | 449.4 |
| 120° | 395.2 | 412.3 | 419.6 | 421.4 |
| 122.5° | 369.7 | 384.6 | 392.8 | 395.2 |
| 125° | 348.1 | 361.5 | 369.1 | 371.2 |
| 127.5° | 330.1 | 341.7 | 348.7 | 350.5 |
| 130° | 313.7 | 324.6 | 331.0 | 333.5 |
| 132.5° | 298.8 | 309.7 | 315.2 | 316.7 |
| 135° | 284.2 | 293.3 | 298.8 | 300.9 |
| 137.5° | 268.4 | 277.8 | 282.4 | 284.2 |
| 140° | 253.4 | 262.0 | 266.8 | 266.5 |
| 142.5° | 238.8 | 246.1 | 250.4 | 250.1 |
| 145° | 225.8 | 232.2 | 234.6 | 235.2 |
| 147.5° | 215.1 | 219.7 | 222.1 | 222.4 |
| 150° | 206.3 | 209.6 | 211.5 | 211.5 |
| 152.5° | 198.4 | 201.4 | 202.3 | 202.3 |
| 155° | 191.7 | 194.1 | 194.7 | 195.0 |
| 157.5° | 185.6 | 187.4 | 188.0 | 188.0 |
| 160° | 179.8 | 181.6 | 181.6 | 181.3 |
| 162.5° | 174.0 | 175.6 | 175.6 | 175.3 |
| 165° | 169.2 | 170.4 | 170.1 | 170.1 |
| 167.5° | 164.3 | 165.2 | 164.9 | 164.9 |
| 170° | 160.0 | 160.6 | 160.3 | 160.3 |
| 172.5° | 156.4 | 157.0 | 156.4 | 156.1 |
| 175° | 153.3 | 153.7 | 153.3 | 153.0 |
| 177.5° | 151.2 | 151.5 | 150.9 | 150.9 |
| 180° | 150.3 | 150.3 | 150.3 | 150.3 |



TEST NUMBER: P831839

CATALOG NUMBER: S123RDIP-S1000D365U935-4F0-1E-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 | 14.79 | 15.86 | 15.50 | 16.57 | 17.41 | 19.46 | 20.52 | 20.16 | 21.23 | 22.07 |
| | 3H | 16.03 | 16.98 | 16.75 | 17.71 | 18.58 | 20.97 | 21.93 | 21.69 | 22.65 | 23.52 |
| | 4H | 16.42 | 17.32 | 17.16 | 18.05 | 18.94 | 21.47 | 22.37 | 22.21 | 23.10 | 23.99 |
| | 6H | 16.72 | 17.54 | 17.46 | 18.28 | 19.18 | 21.80 | 22.62 | 22.54 | 23.36 | 24.26 |
| | 8H | 16.81 | 17.60 | 17.57 | 18.36 | 19.25 | 21.88 | 22.67 | 22.64 | 23.43 | 24.33 |
| | 12H | 16.87 | 17.62 | 17.63 | 18.37 | 19.29 | 21.92 | 22.67 | 22.68 | 23.42 | 24.35 |
| 4H | 2H | 15.54 | 16.44 | 16.28 | 17.17 | 18.06 | 19.48 | 20.38 | 20.22 | 21.11 | 21.99 |
| | 3H | 16.93 | 17.68 | 17.68 | 18.44 | 19.34 | 21.16 | 21.90 | 21.91 | 22.67 | 23.57 |
| | 4H | 17.40 | 18.07 | 18.16 | 18.84 | 19.77 | 21.77 | 22.45 | 22.54 | 23.22 | 24.15 |
| | 6H | 17.78 | 18.36 | 18.56 | 19.15 | 20.09 | 22.22 | 22.80 | 23.01 | 23.60 | 24.54 |
| | 8H | 17.91 | 18.45 | 18.69 | 19.24 | 20.19 | 22.36 | 22.90 | 23.14 | 23.69 | 24.64 |
| | 12H | 17.99 | 18.48 | 18.80 | 19.29 | 20.24 | 22.43 | 22.92 | 23.24 | 23.73 | 24.68 |
| 8H | 4H | 17.73 | 18.27 | 18.51 | 19.06 | 20.01 | 21.76 | 22.30 | 22.54 | 23.09 | 24.04 |
| | 6H | 18.20 | 18.64 | 19.01 | 19.48 | 20.43 | 22.26 | 22.71 | 23.08 | 23.54 | 24.49 |
| | 8H | 18.39 | 18.79 | 19.22 | 19.62 | 20.59 | 22.45 | 22.84 | 23.27 | 23.68 | 24.64 |
| | 12H | 18.54 | 18.89 | 19.37 | 19.71 | 20.74 | 22.57 | 22.92 | 23.40 | 23.74 | 24.77 |
| 12H | 4H | 17.75 | 18.23 | 18.55 | 19.05 | 20.00 | 21.72 | 22.20 | 22.52 | 23.02 | 23.97 |
| | 6H | 18.26 | 18.65 | 19.08 | 19.49 | 20.45 | 22.24 | 22.63 | 23.06 | 23.46 | 24.43 |
| | 8H | 18.49 | 18.84 | 19.31 | 19.66 | 20.68 | 22.44 | 22.79 | 23.27 | 23.61 | 24.63 |