

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: P831843

Luminaire Tested: S123RDIP-S1000D365U950-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831843  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D365U950-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

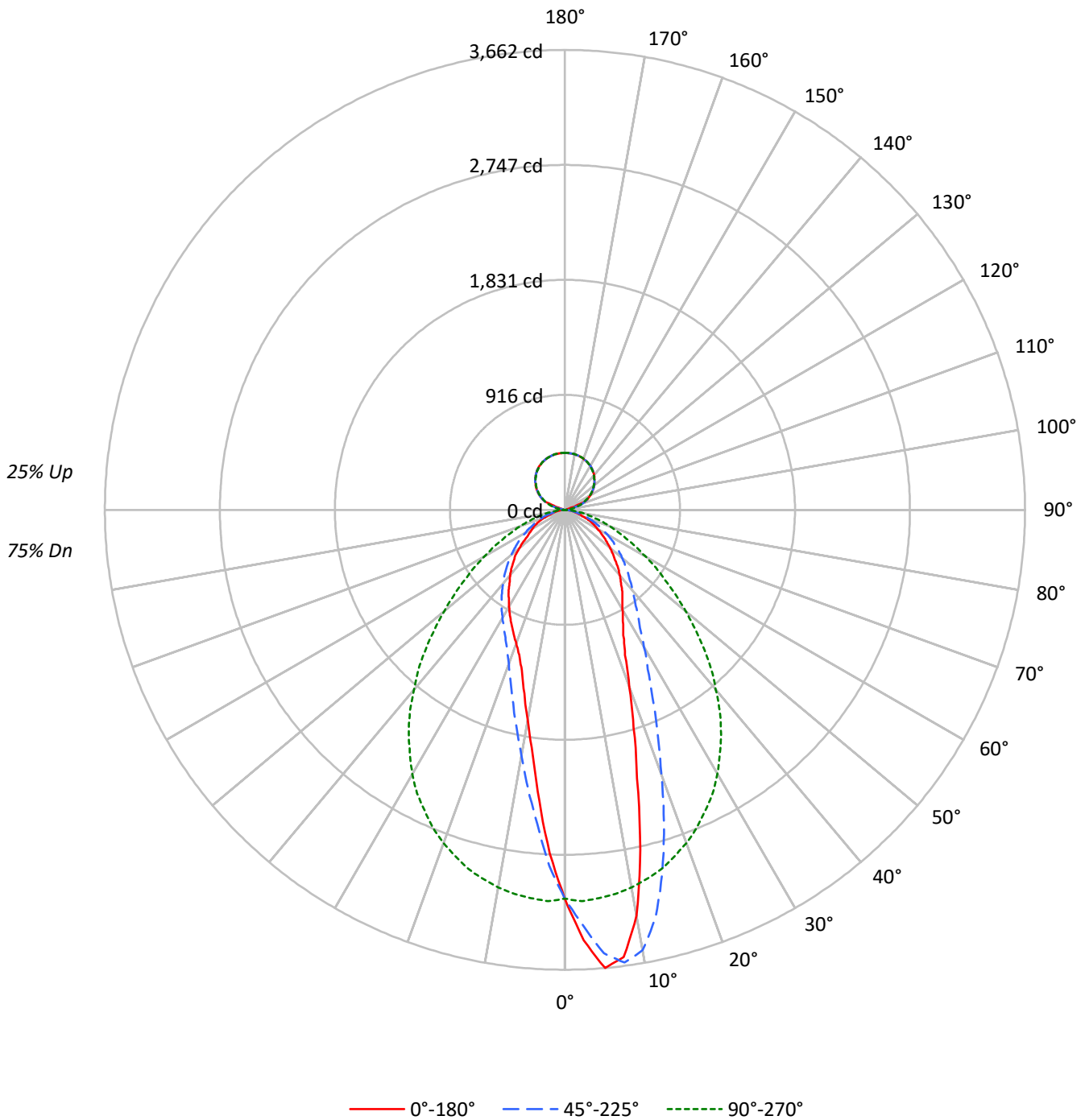
Lumens per Lamp: N/A  
Luminaire Lumens: 5488.7 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

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: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

### Luminous Intensity Polar Plot





TEST NUMBER: P831843

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**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 | 107 | 107 | 107 | 107 | 97 | 97 | 97 | 88 | 88 | 88 | 79 | 79 | 79 | 75 |    |    |    | 75 |
| 1   | 105 | 100 | 97  | 94  | 99  | 96  | 93  | 90  | 87 | 85 | 82 | 79 | 77 | 75 | 72 | 70 | 69 |    |    |    | 65 |    |
| 2   | 96  | 89  | 84  | 79  | 91  | 85  | 80  | 76  | 78 | 74 | 70 | 71 | 68 | 65 | 65 | 62 | 60 |    |    |    | 57 |    |
| 3   | 89  | 80  | 73  | 67  | 84  | 76  | 70  | 65  | 70 | 65 | 61 | 64 | 60 | 57 | 58 | 55 | 53 |    |    |    | 50 |    |
| 4   | 82  | 72  | 64  | 58  | 78  | 69  | 62  | 57  | 63 | 58 | 53 | 58 | 54 | 50 | 53 | 50 | 47 |    |    |    | 44 |    |
| 5   | 76  | 65  | 57  | 51  | 72  | 62  | 55  | 50  | 58 | 52 | 47 | 53 | 48 | 44 | 49 | 45 | 42 |    |    |    | 39 |    |
| 6   | 71  | 59  | 51  | 46  | 67  | 57  | 50  | 45  | 53 | 47 | 42 | 49 | 44 | 40 | 45 | 41 | 38 |    |    |    | 35 |    |
| 7   | 66  | 54  | 46  | 41  | 63  | 52  | 45  | 40  | 48 | 42 | 38 | 45 | 40 | 36 | 42 | 37 | 34 |    |    |    | 32 |    |
| 8   | 62  | 50  | 42  | 37  | 59  | 48  | 41  | 36  | 45 | 39 | 35 | 42 | 37 | 33 | 39 | 35 | 31 |    |    |    | 29 |    |
| 9   | 58  | 46  | 39  | 34  | 55  | 45  | 38  | 33  | 42 | 36 | 32 | 39 | 34 | 30 | 36 | 32 | 29 |    |    |    | 27 |    |
| 10  | 55  | 43  | 36  | 31  | 52  | 41  | 35  | 30  | 39 | 33 | 29 | 36 | 31 | 28 | 34 | 30 | 27 |    |    |    | 25 |    |

**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



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 282.2  | 5.1       |
| 10°-20°   | 652.9  | 11.9      |
| 20°-30°   | 749.2  | 13.6      |
| 30°-40°   | 738.4  | 13.5      |
| 40°-50°   | 651.2  | 11.9      |
| 50°-60°   | 501.0  | 9.1       |
| 60°-70°   | 329.4  | 6.0       |
| 70°-80°   | 160.0  | 2.9       |
| 80°-90°   | 41.2   | 0.8       |
| 90°-100°  | 16.0   | 0.3       |
| 100°-110° | 77.3   | 1.4       |
| 110°-120° | 189.6  | 3.5       |
| 120°-130° | 240.7  | 4.4       |
| 130°-140° | 257.1  | 4.7       |
| 140°-150° | 240.4  | 4.4       |
| 150°-160° | 193.9  | 3.5       |
| 160°-170° | 125.1  | 2.3       |
| 170°-180° | 43.1   | 0.8       |
| 0°-30°    | 1684.3 | 30.7      |
| 0°-40°    | 2422.7 | 44.1      |
| 0°-60°    | 3574.9 | 65.1      |
| 0°-90°    | 4105.4 | 74.8      |
| 90°-120°  | 282.9  | 5.2       |
| 90°-150°  | 1021.1 | 18.6      |
| 90°-180°  | 1383.0 | 25.2      |
| 0°-180°   | 5488.7 | 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°  | 10   | 8    | 0    | 8    | 10   | 6    |
| 95°  | 13   | 10   | 21   | 10   | 13   | 11   |
| 105° | 15   | 74   | 100  | 74   | 15   | 31   |
| 115° | 198  | 194  | 188  | 194  | 198  | 186  |
| 125° | 271  | 270  | 266  | 270  | 271  | 242  |
| 135° | 334  | 334  | 331  | 334  | 334  | 258  |
| 145° | 385  | 385  | 382  | 385  | 385  | 241  |
| 155° | 420  | 420  | 420  | 420  | 420  | 194  |
| 165° | 442  | 442  | 443  | 442  | 442  | 125  |
| 175° | 452  | 452  | 454  | 452  | 452  | 43   |
| 180° | 454  | 454  | 454  | 454  | 454  |      |



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**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°    | 10.1   | 10.0   | 9.8    | 9.7    | 9.5    | 9.3    | 9.0    | 8.7    | 8.4    | 8.1    | 7.1    |
| 92.5°  | 11.5   | 11.4   | 11.3   | 11.2   | 11.2   | 10.9   | 10.3   | 9.8    | 9.3    | 8.8    | 8.1    |
| 95°    | 12.8   | 12.8   | 12.8   | 12.8   | 12.8   | 12.5   | 12.0   | 11.5   | 11.0   | 10.5   | 9.6    |
| 97.5°  | 13.8   | 13.7   | 13.7   | 13.6   | 13.5   | 13.2   | 12.6   | 12.0   | 11.4   | 10.8   | 14.6   |
| 100°   | 14.2   | 14.1   | 14.0   | 13.9   | 13.9   | 13.5   | 12.9   | 12.3   | 11.7   | 11.1   | 22.8   |
| 102.5° | 14.5   | 14.3   | 14.2   | 14.0   | 13.9   | 15.1   | 17.5   | 20.0   | 22.5   | 24.9   | 38.0   |
| 105°   | 14.8   | 14.7   | 14.5   | 14.4   | 14.2   | 20.8   | 34.0   | 47.3   | 60.6   | 73.8   | 80.6   |
| 107.5° | 35.1   | 44.9   | 54.7   | 64.5   | 74.3   | 85.0   | 96.5   | 108.1  | 119.6  | 131.1  | 130.0  |
| 110°   | 92.7   | 103.4  | 114.1  | 124.8  | 135.6  | 142.1  | 144.6  | 147.1  | 149.6  | 152.0  | 151.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 175.6 | 175.8 | 175.9 | 176.1 | 176.2 | 176.0 | 175.3 | 174.6 | 174.0 | 173.3 | 172.5 |
| 115°   | 198.2 | 197.9 | 197.6 | 197.3 | 197.0 | 196.5 | 195.8 | 195.0 | 194.3 | 193.5 | 192.8 |
| 117.5° | 216.4 | 216.4 | 216.3 | 216.2 | 216.1 | 215.8 | 215.2 | 214.6 | 214.0 | 213.4 | 213.0 |
| 120°   | 235.3 | 235.3 | 235.3 | 235.3 | 235.3 | 235.0 | 234.4 | 233.8 | 233.2 | 232.6 | 232.4 |
| 122.5° | 253.8 | 253.8 | 253.7 | 253.6 | 253.5 | 253.3 | 252.9 | 252.6 | 252.2 | 251.8 | 251.5 |
| 125°   | 271.0 | 270.9 | 270.7 | 270.6 | 270.4 | 270.3 | 270.1 | 270.0 | 269.8 | 269.7 | 269.4 |
| 127.5° | 287.9 | 288.0 | 288.2 | 288.3 | 288.5 | 288.5 | 288.2 | 288.0 | 287.8 | 287.6 | 287.2 |
| 130°   | 304.1 | 304.2 | 304.4 | 304.5 | 304.7 | 304.6 | 304.3 | 304.0 | 303.7 | 303.4 | 303.1 |
| 132.5° | 318.9 | 319.1 | 319.4 | 319.6 | 319.8 | 319.8 | 319.5 | 319.2 | 318.9 | 318.6 | 318.3 |
| 135°   | 334.1 | 334.3 | 334.5 | 334.8 | 335.0 | 335.0 | 334.8 | 334.5 | 334.3 | 334.1 | 333.8 |
| 137.5° | 348.6 | 348.7 | 348.9 | 349.0 | 349.2 | 349.1 | 348.7 | 348.3 | 347.9 | 347.6 | 347.4 |
| 140°   | 361.4 | 361.5 | 361.7 | 361.8 | 362.0 | 361.9 | 361.6 | 361.3 | 361.0 | 360.7 | 360.5 |
| 142.5° | 373.2 | 373.4 | 373.6 | 373.9 | 374.1 | 374.1 | 373.9 | 373.6 | 373.4 | 373.2 | 373.0 |
| 145°   | 385.3 | 385.3 | 385.3 | 385.3 | 385.3 | 385.2 | 385.1 | 384.9 | 384.8 | 384.6 | 384.5 |
| 147.5° | 394.1 | 394.5 | 394.8 | 395.2 | 395.6 | 395.7 | 395.5 | 395.4 | 395.2 | 395.1 | 394.9 |
| 150°   | 404.2 | 404.4 | 404.6 | 404.9 | 405.1 | 405.1 | 405.0 | 404.8 | 404.7 | 404.5 | 404.4 |
| 152.5° | 412.3 | 412.7 | 413.0 | 413.4 | 413.8 | 413.8 | 413.5 | 413.2 | 412.9 | 412.6 | 412.6 |
| 155°   | 419.7 | 420.2 | 420.6 | 421.1 | 421.5 | 421.5 | 421.2 | 420.8 | 420.4 | 420.0 | 420.0 |
| 157.5° | 426.1 | 426.7 | 427.3 | 427.9 | 428.5 | 428.6 | 428.1 | 427.7 | 427.2 | 426.8 | 426.9 |
| 160°   | 432.2 | 432.7 | 433.2 | 433.8 | 434.3 | 434.3 | 433.9 | 433.4 | 433.0 | 432.5 | 432.6 |
| 162.5° | 437.9 | 438.4 | 438.8 | 439.3 | 439.7 | 439.7 | 439.1 | 438.6 | 438.1 | 437.6 | 437.6 |
| 165°   | 442.3 | 442.8 | 443.3 | 443.9 | 444.4 | 444.4 | 443.8 | 443.2 | 442.6 | 442.0 | 442.0 |
| 167.5° | 445.7 | 446.3 | 446.9 | 447.5 | 448.1 | 448.1 | 447.5 | 446.9 | 446.3 | 445.7 | 445.7 |
| 170°   | 448.7 | 449.3 | 449.9 | 450.5 | 451.1 | 451.1 | 450.5 | 449.9 | 449.3 | 448.7 | 448.7 |
| 172.5° | 450.4 | 451.1 | 451.7 | 452.4 | 453.1 | 453.1 | 452.5 | 451.9 | 451.3 | 450.7 | 450.6 |
| 175°   | 452.1 | 452.7 | 453.3 | 453.9 | 454.5 | 454.5 | 454.0 | 453.5 | 452.9 | 452.4 | 452.3 |
| 177.5° | 452.4 | 453.2 | 453.9 | 454.7 | 455.4 | 455.5 | 454.9 | 454.3 | 453.7 | 453.1 | 453.0 |
| 180°   | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 |



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CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**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°    | 6.1    | 5.2    | 4.2    | 3.3    | 2.6    | 1.8    | 1.1    | 0.3    | 1.1    | 1.8    | 2.6    |
| 92.5°  | 7.4    | 6.7    | 6.1    | 6.0    | 6.4    | 6.9    | 7.3    | 7.8    | 7.3    | 6.9    | 6.4    |
| 95°    | 8.8    | 8.0    | 7.2    | 8.3    | 11.3   | 14.4   | 17.5   | 20.6   | 17.5   | 14.4   | 11.3   |
| 97.5°  | 18.4   | 22.2   | 26.1   | 29.0   | 31.1   | 33.2   | 35.3   | 37.4   | 35.3   | 33.2   | 31.1   |
| 100°   | 34.5   | 46.2   | 57.9   | 63.0   | 61.5   | 60.0   | 58.5   | 57.0   | 58.5   | 60.0   | 61.5   |
| 102.5° | 51.0   | 64.1   | 77.1   | 83.1   | 82.1   | 81.2   | 80.2   | 79.2   | 80.2   | 81.2   | 82.1   |
| 105°   | 87.3   | 94.1   | 100.8  | 103.8  | 102.9  | 102.1  | 101.3  | 100.5  | 101.3  | 102.1  | 102.9  |
| 107.5° | 128.9  | 127.8  | 126.6  | 125.7  | 125.1  | 124.4  | 123.7  | 123.0  | 123.7  | 124.4  | 125.1  |
| 110°   | 150.4  | 149.6  | 148.7  | 148.0  | 147.4  | 146.8  | 146.2  | 145.6  | 146.2  | 146.8  | 147.4  |





TEST NUMBER: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 171.6 | 170.8 | 170.0 | 169.3 | 168.8 | 168.3 | 167.7 | 167.2 | 167.7 | 168.3 | 168.8 |
| 115°   | 192.2 | 191.5 | 190.8 | 190.2 | 189.8 | 189.3 | 188.9 | 188.4 | 188.9 | 189.3 | 189.8 |
| 117.5° | 212.6 | 212.3 | 211.9 | 211.4 | 210.9 | 210.4 | 209.9 | 209.3 | 209.9 | 210.4 | 210.9 |
| 120°   | 232.2 | 231.9 | 231.7 | 231.3 | 230.6 | 229.9 | 229.2 | 228.6 | 229.2 | 229.9 | 230.6 |
| 122.5° | 251.2 | 250.9 | 250.6 | 250.2 | 249.7 | 249.2 | 248.6 | 248.1 | 248.6 | 249.2 | 249.7 |
| 125°   | 269.1 | 268.8 | 268.5 | 268.0 | 267.4 | 266.8 | 266.2 | 265.6 | 266.2 | 266.8 | 267.4 |
| 127.5° | 286.8 | 286.4 | 286.1 | 285.6 | 285.0 | 284.4 | 283.8 | 283.2 | 283.8 | 284.4 | 285.0 |
| 130°   | 302.8 | 302.5 | 302.2 | 301.8 | 301.2 | 300.6 | 300.0 | 299.4 | 300.0 | 300.6 | 301.2 |
| 132.5° | 318.1 | 317.9 | 317.7 | 317.3 | 316.7 | 316.1 | 315.5 | 314.9 | 315.5 | 316.1 | 316.7 |
| 135°   | 333.5 | 333.2 | 332.9 | 332.5 | 332.1 | 331.6 | 331.2 | 330.7 | 331.2 | 331.6 | 332.1 |
| 137.5° | 347.3 | 347.1 | 347.0 | 346.6 | 346.0 | 345.4 | 344.8 | 344.2 | 344.8 | 345.4 | 346.0 |
| 140°   | 360.3 | 360.0 | 359.8 | 359.5 | 359.0 | 358.6 | 358.1 | 357.7 | 358.1 | 358.6 | 359.0 |
| 142.5° | 372.7 | 372.5 | 372.3 | 371.9 | 371.5 | 371.1 | 370.6 | 370.2 | 370.6 | 371.1 | 371.5 |
| 145°   | 384.3 | 384.2 | 384.0 | 383.7 | 383.2 | 382.7 | 382.1 | 381.6 | 382.1 | 382.7 | 383.2 |
| 147.5° | 394.8 | 394.6 | 394.5 | 394.2 | 393.9 | 393.5 | 393.1 | 392.7 | 393.1 | 393.5 | 393.9 |
| 150°   | 404.2 | 404.1 | 403.9 | 403.8 | 403.5 | 403.3 | 403.1 | 402.9 | 403.1 | 403.3 | 403.5 |
| 152.5° | 412.5 | 412.4 | 412.3 | 412.3 | 412.2 | 412.1 | 412.0 | 412.0 | 412.0 | 412.1 | 412.2 |
| 155°   | 419.9 | 419.8 | 419.7 | 419.8 | 419.9 | 420.1 | 420.2 | 420.4 | 420.2 | 420.1 | 419.9 |
| 157.5° | 426.9 | 427.0 | 427.1 | 427.1 | 427.1 | 427.1 | 427.1 | 427.1 | 427.1 | 427.1 | 427.1 |
| 160°   | 432.7 | 432.7 | 432.8 | 432.9 | 433.0 | 433.0 | 433.1 | 433.2 | 433.1 | 433.0 | 433.0 |
| 162.5° | 437.7 | 437.8 | 437.9 | 438.0 | 438.2 | 438.5 | 438.7 | 438.9 | 438.7 | 438.5 | 438.2 |
| 165°   | 442.1 | 442.2 | 442.3 | 442.4 | 442.6 | 442.9 | 443.1 | 443.3 | 443.1 | 442.9 | 442.6 |
| 167.5° | 445.7 | 445.7 | 445.7 | 445.8 | 446.1 | 446.4 | 446.7 | 447.0 | 446.7 | 446.4 | 446.1 |
| 170°   | 448.7 | 448.7 | 448.7 | 448.8 | 449.1 | 449.4 | 449.7 | 450.0 | 449.7 | 449.4 | 449.1 |
| 172.5° | 450.6 | 450.5 | 450.4 | 450.6 | 450.9 | 451.3 | 451.7 | 452.1 | 451.7 | 451.3 | 450.9 |
| 175°   | 452.3 | 452.2 | 452.1 | 452.3 | 452.6 | 453.0 | 453.4 | 453.8 | 453.4 | 453.0 | 452.6 |
| 177.5° | 452.9 | 452.9 | 452.8 | 452.9 | 453.3 | 453.7 | 454.1 | 454.4 | 454.1 | 453.7 | 453.3 |
| 180°   | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 |



TEST NUMBER: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**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°    | 3.3    | 4.2    | 5.2    | 6.1    | 7.1    | 8.1    | 8.4    | 8.7    | 9.0    | 9.3    | 9.5    |
| 92.5°  | 6.0    | 6.1    | 6.7    | 7.4    | 8.1    | 8.8    | 9.3    | 9.8    | 10.3   | 10.9   | 11.2   |
| 95°    | 8.3    | 7.2    | 8.0    | 8.8    | 9.6    | 10.5   | 11.0   | 11.5   | 12.0   | 12.5   | 12.8   |
| 97.5°  | 29.0   | 26.1   | 22.2   | 18.4   | 14.6   | 10.8   | 11.4   | 12.0   | 12.6   | 13.2   | 13.5   |
| 100°   | 63.0   | 57.9   | 46.2   | 34.5   | 22.8   | 11.1   | 11.7   | 12.3   | 12.9   | 13.5   | 13.9   |
| 102.5° | 83.1   | 77.1   | 64.1   | 51.0   | 38.0   | 24.9   | 22.5   | 20.0   | 17.5   | 15.1   | 13.9   |
| 105°   | 103.8  | 100.8  | 94.1   | 87.3   | 80.6   | 73.8   | 60.6   | 47.3   | 34.0   | 20.8   | 14.2   |
| 107.5° | 125.7  | 126.6  | 127.8  | 128.9  | 130.0  | 131.1  | 119.6  | 108.1  | 96.5   | 85.0   | 74.3   |
| 110°   | 148.0  | 148.7  | 149.6  | 150.4  | 151.2  | 152.0  | 149.6  | 147.1  | 144.6  | 142.1  | 135.6  |



TEST NUMBER: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.3 | 170.0 | 170.8 | 171.6 | 172.5 | 173.3 | 174.0 | 174.6 | 175.3 | 176.0 | 176.2 |
| 115°   | 190.2 | 190.8 | 191.5 | 192.2 | 192.8 | 193.5 | 194.3 | 195.0 | 195.8 | 196.5 | 197.0 |
| 117.5° | 211.4 | 211.9 | 212.3 | 212.6 | 213.0 | 213.4 | 214.0 | 214.6 | 215.2 | 215.8 | 216.1 |
| 120°   | 231.3 | 231.7 | 231.9 | 232.2 | 232.4 | 232.6 | 233.2 | 233.8 | 234.4 | 235.0 | 235.3 |
| 122.5° | 250.2 | 250.6 | 250.9 | 251.2 | 251.5 | 251.8 | 252.2 | 252.6 | 252.9 | 253.3 | 253.5 |
| 125°   | 268.0 | 268.5 | 268.8 | 269.1 | 269.4 | 269.7 | 269.8 | 270.0 | 270.1 | 270.3 | 270.4 |
| 127.5° | 285.6 | 286.1 | 286.4 | 286.8 | 287.2 | 287.6 | 287.8 | 288.0 | 288.2 | 288.5 | 288.5 |
| 130°   | 301.8 | 302.2 | 302.5 | 302.8 | 303.1 | 303.4 | 303.7 | 304.0 | 304.3 | 304.6 | 304.7 |
| 132.5° | 317.3 | 317.7 | 317.9 | 318.1 | 318.3 | 318.6 | 318.9 | 319.2 | 319.5 | 319.8 | 319.8 |
| 135°   | 332.5 | 332.9 | 333.2 | 333.5 | 333.8 | 334.1 | 334.3 | 334.5 | 334.8 | 335.0 | 335.0 |
| 137.5° | 346.6 | 347.0 | 347.1 | 347.3 | 347.4 | 347.6 | 347.9 | 348.3 | 348.7 | 349.1 | 349.2 |
| 140°   | 359.5 | 359.8 | 360.0 | 360.3 | 360.5 | 360.7 | 361.0 | 361.3 | 361.6 | 361.9 | 362.0 |
| 142.5° | 371.9 | 372.3 | 372.5 | 372.7 | 373.0 | 373.2 | 373.4 | 373.6 | 373.9 | 374.1 | 374.1 |
| 145°   | 383.7 | 384.0 | 384.2 | 384.3 | 384.5 | 384.6 | 384.8 | 384.9 | 385.1 | 385.2 | 385.3 |
| 147.5° | 394.2 | 394.5 | 394.6 | 394.8 | 394.9 | 395.1 | 395.2 | 395.4 | 395.5 | 395.7 | 395.6 |
| 150°   | 403.8 | 403.9 | 404.1 | 404.2 | 404.4 | 404.5 | 404.7 | 404.8 | 405.0 | 405.1 | 405.1 |
| 152.5° | 412.3 | 412.3 | 412.4 | 412.5 | 412.6 | 412.6 | 412.9 | 413.2 | 413.5 | 413.8 | 413.8 |
| 155°   | 419.8 | 419.7 | 419.8 | 419.9 | 420.0 | 420.0 | 420.4 | 420.8 | 421.2 | 421.5 | 421.5 |
| 157.5° | 427.1 | 427.1 | 427.0 | 426.9 | 426.9 | 426.8 | 427.2 | 427.7 | 428.1 | 428.6 | 428.5 |
| 160°   | 432.9 | 432.8 | 432.7 | 432.7 | 432.6 | 432.5 | 433.0 | 433.4 | 433.9 | 434.3 | 434.3 |
| 162.5° | 438.0 | 437.9 | 437.8 | 437.7 | 437.6 | 437.6 | 438.1 | 438.6 | 439.1 | 439.7 | 439.7 |
| 165°   | 442.4 | 442.3 | 442.2 | 442.1 | 442.0 | 442.0 | 442.6 | 443.2 | 443.8 | 444.4 | 444.4 |
| 167.5° | 445.8 | 445.7 | 445.7 | 445.7 | 445.7 | 445.7 | 446.3 | 446.9 | 447.5 | 448.1 | 448.1 |
| 170°   | 448.8 | 448.7 | 448.7 | 448.7 | 448.7 | 448.7 | 449.3 | 449.9 | 450.5 | 451.1 | 451.1 |
| 172.5° | 450.6 | 450.4 | 450.5 | 450.6 | 450.6 | 450.7 | 451.3 | 451.9 | 452.5 | 453.1 | 453.1 |
| 175°   | 452.3 | 452.1 | 452.2 | 452.3 | 452.3 | 452.4 | 452.9 | 453.5 | 454.0 | 454.5 | 454.5 |
| 177.5° | 452.9 | 452.8 | 452.9 | 452.9 | 453.0 | 453.1 | 453.7 | 454.3 | 454.9 | 455.5 | 455.4 |
| 180°   | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 | 453.8 |



TEST NUMBER: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**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°    | 9.7    | 9.8    | 10.0   | 10.1   |
| 92.5°  | 11.2   | 11.3   | 11.4   | 11.5   |
| 95°    | 12.8   | 12.8   | 12.8   | 12.8   |
| 97.5°  | 13.6   | 13.7   | 13.7   | 13.8   |
| 100°   | 13.9   | 14.0   | 14.1   | 14.2   |
| 102.5° | 14.0   | 14.2   | 14.3   | 14.5   |
| 105°   | 14.4   | 14.5   | 14.7   | 14.8   |
| 107.5° | 64.5   | 54.7   | 44.9   | 35.1   |
| 110°   | 124.8  | 114.1  | 103.4  | 92.7   |



TEST NUMBER: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 176.1 | 175.9 | 175.8 | 175.6 |
| 115°   | 197.3 | 197.6 | 197.9 | 198.2 |
| 117.5° | 216.2 | 216.3 | 216.4 | 216.4 |
| 120°   | 235.3 | 235.3 | 235.3 | 235.3 |
| 122.5° | 253.6 | 253.7 | 253.8 | 253.8 |
| 125°   | 270.6 | 270.7 | 270.9 | 271.0 |
| 127.5° | 288.3 | 288.2 | 288.0 | 287.9 |
| 130°   | 304.5 | 304.4 | 304.2 | 304.1 |
| 132.5° | 319.6 | 319.4 | 319.1 | 318.9 |
| 135°   | 334.8 | 334.5 | 334.3 | 334.1 |
| 137.5° | 349.0 | 348.9 | 348.7 | 348.6 |
| 140°   | 361.8 | 361.7 | 361.5 | 361.4 |
| 142.5° | 373.9 | 373.6 | 373.4 | 373.2 |
| 145°   | 385.3 | 385.3 | 385.3 | 385.3 |
| 147.5° | 395.2 | 394.8 | 394.5 | 394.1 |
| 150°   | 404.9 | 404.6 | 404.4 | 404.2 |
| 152.5° | 413.4 | 413.0 | 412.7 | 412.3 |
| 155°   | 421.1 | 420.6 | 420.2 | 419.7 |
| 157.5° | 427.9 | 427.3 | 426.7 | 426.1 |
| 160°   | 433.8 | 433.2 | 432.7 | 432.2 |
| 162.5° | 439.3 | 438.8 | 438.4 | 437.9 |
| 165°   | 443.9 | 443.3 | 442.8 | 442.3 |
| 167.5° | 447.5 | 446.9 | 446.3 | 445.7 |
| 170°   | 450.5 | 449.9 | 449.3 | 448.7 |
| 172.5° | 452.4 | 451.7 | 451.1 | 450.4 |
| 175°   | 453.9 | 453.3 | 452.7 | 452.1 |
| 177.5° | 454.7 | 453.9 | 453.2 | 452.4 |
| 180°   | 453.8 | 453.8 | 453.8 | 453.8 |



TEST NUMBER: P831843

CATALOG NUMBER: S123RDIP-S1000D365U950-4F0-1E-UDD-G

**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 | 15.01            | 16.06 | 15.73 | 16.79 | 17.66 | 19.67          | 20.72 | 20.40 | 21.45 | 22.32 |
|                 | 3H   | 16.25            | 17.18 | 16.98 | 17.92 | 18.83 | 21.19          | 22.12 | 21.93 | 22.87 | 23.77 |
|                 | 4H   | 16.64            | 17.52 | 17.39 | 18.27 | 19.19 | 21.69          | 22.57 | 22.44 | 23.32 | 24.24 |
|                 | 6H   | 16.93            | 17.74 | 17.70 | 18.50 | 19.43 | 22.01          | 22.82 | 22.78 | 23.58 | 24.51 |
|                 | 8H   | 17.02            | 17.79 | 17.80 | 18.57 | 19.51 | 22.10          | 22.86 | 22.87 | 23.65 | 24.58 |
|                 | 12H  | 17.08            | 17.81 | 17.86 | 18.59 | 19.55 | 22.13          | 22.87 | 22.92 | 23.64 | 24.60 |
| 4H              | 2H   | 15.76            | 16.64 | 16.52 | 17.39 | 18.31 | 19.69          | 20.57 | 20.45 | 21.33 | 22.24 |
|                 | 3H   | 17.15            | 17.87 | 17.92 | 18.66 | 19.60 | 21.37          | 22.10 | 22.14 | 22.89 | 23.82 |
|                 | 4H   | 17.61            | 18.27 | 18.39 | 19.06 | 20.02 | 21.99          | 22.64 | 22.77 | 23.43 | 24.40 |
|                 | 6H   | 17.99            | 18.56 | 18.79 | 19.37 | 20.34 | 22.43          | 23.00 | 23.24 | 23.82 | 24.79 |
|                 | 8H   | 18.12            | 18.65 | 18.92 | 19.46 | 20.44 | 22.57          | 23.10 | 23.37 | 23.91 | 24.89 |
|                 | 12H  | 18.20            | 18.68 | 19.03 | 19.51 | 20.49 | 22.64          | 23.12 | 23.47 | 23.95 | 24.93 |
| 8H              | 4H   | 17.94            | 18.47 | 18.74 | 19.28 | 20.26 | 21.97          | 22.50 | 22.77 | 23.31 | 24.29 |
|                 | 6H   | 18.41            | 18.85 | 19.24 | 19.70 | 20.68 | 22.47          | 22.91 | 23.30 | 23.76 | 24.74 |
|                 | 8H   | 18.60            | 18.99 | 19.45 | 19.84 | 20.84 | 22.66          | 23.04 | 23.50 | 23.89 | 24.89 |
|                 | 12H  | 18.75            | 19.09 | 19.60 | 19.93 | 20.99 | 22.78          | 23.12 | 23.63 | 23.96 | 25.02 |
| 12H             | 4H   | 17.96            | 18.43 | 18.78 | 19.27 | 20.25 | 21.93          | 22.40 | 22.75 | 23.23 | 24.22 |
|                 | 6H   | 18.47            | 18.86 | 19.31 | 19.71 | 20.70 | 22.44          | 22.83 | 23.29 | 23.68 | 24.68 |
|                 | 8H   | 18.69            | 19.04 | 19.54 | 19.88 | 20.93 | 22.65          | 22.99 | 23.49 | 23.83 | 24.88 |