

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: P831816

Luminaire Tested: S123RDIP-S1000D1195U950-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831816  
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-S1000D1195U950-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 1195 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

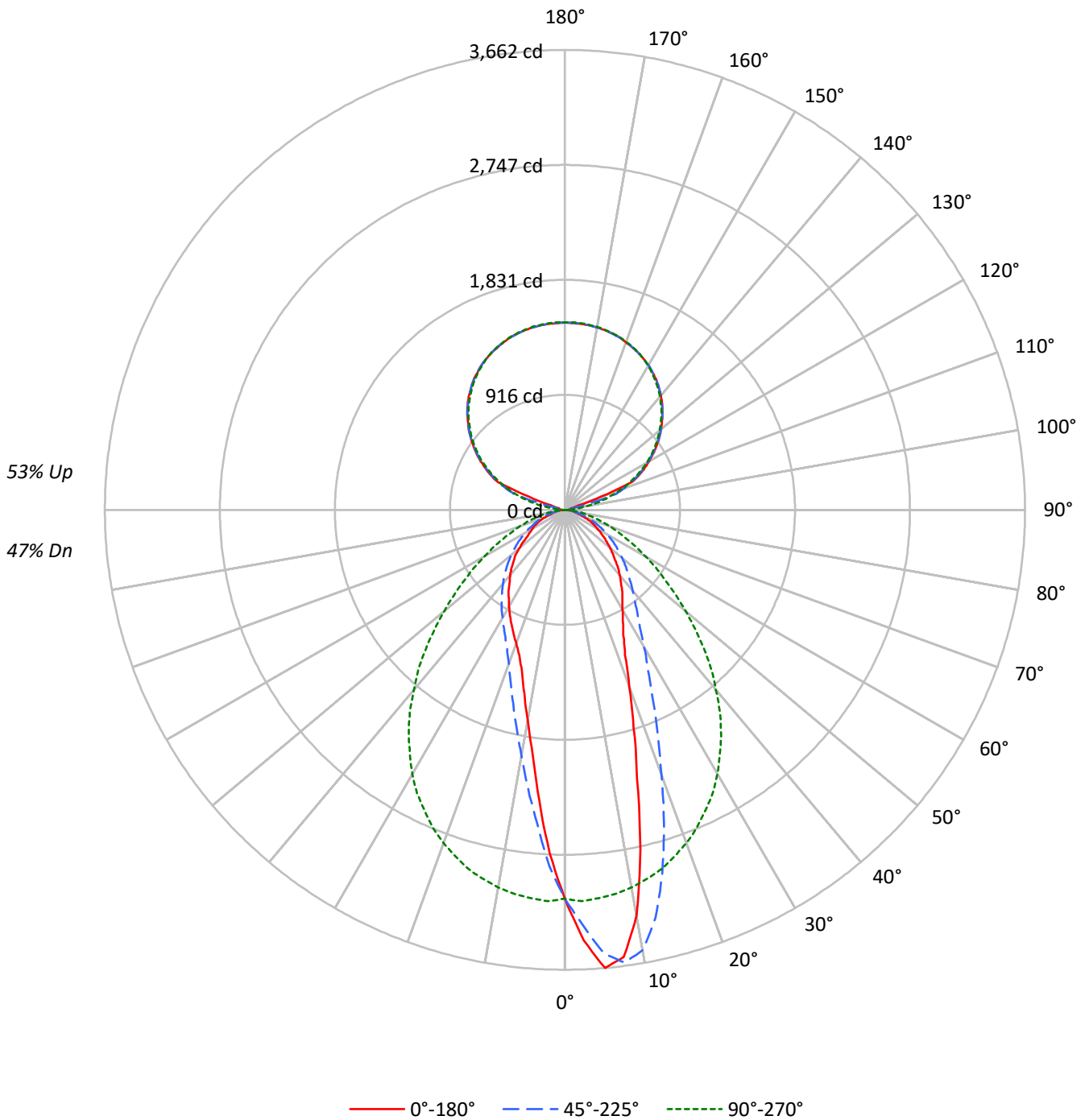
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8655.3 lumens  
Efficiency: N/A  
Efficacy: 130.9 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): 66.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-UDD-G

### Luminous Intensity Polar Plot





TEST NUMBER: P831816

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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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 47 |    |    |    |   |
| 1   | 98  | 94  | 90  | 87  | 90 | 87 | 84 | 81 | 73 | 71 | 69 | 60 | 59 | 57 | 49 | 48 | 47 | 41 |    |    |    |   |
| 2   | 90  | 83  | 77  | 72  | 83 | 77 | 72 | 68 | 65 | 61 | 58 | 54 | 51 | 49 | 44 | 42 | 41 | 36 |    |    |    |   |
| 3   | 83  | 74  | 67  | 61  | 76 | 68 | 62 | 58 | 58 | 54 | 50 | 48 | 45 | 43 | 40 | 37 | 36 | 32 |    |    |    |   |
| 4   | 76  | 66  | 58  | 53  | 70 | 61 | 55 | 50 | 52 | 47 | 43 | 44 | 40 | 37 | 36 | 34 | 32 | 28 |    |    |    |   |
| 5   | 70  | 59  | 52  | 46  | 64 | 55 | 48 | 43 | 47 | 42 | 38 | 40 | 36 | 33 | 33 | 30 | 28 | 25 |    |    |    |   |
| 6   | 65  | 53  | 46  | 40  | 60 | 50 | 43 | 38 | 43 | 38 | 34 | 36 | 32 | 29 | 30 | 28 | 25 | 22 |    |    |    |   |
| 7   | 60  | 49  | 41  | 36  | 56 | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 30 | 27 | 28 | 25 | 23 | 20 |    |    |    |   |
| 8   | 56  | 44  | 37  | 32  | 52 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 21 | 19 |    |    |    |   |
| 9   | 53  | 41  | 34  | 29  | 49 | 38 | 32 | 28 | 33 | 28 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 17 |    |    |    |   |
| 10  | 49  | 38  | 31  | 26  | 46 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 23 | 20 | 18 | 16 |    |    |    |   |

**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  | 3.3       |
| 10°-20°   | 652.9  | 7.5       |
| 20°-30°   | 749.2  | 8.7       |
| 30°-40°   | 738.4  | 8.5       |
| 40°-50°   | 651.2  | 7.5       |
| 50°-60°   | 501.0  | 5.8       |
| 60°-70°   | 329.4  | 3.8       |
| 70°-80°   | 160.0  | 1.8       |
| 80°-90°   | 43.3   | 0.5       |
| 90°-100°  | 52.6   | 0.6       |
| 100°-110° | 254.3  | 2.9       |
| 110°-120° | 623.3  | 7.2       |
| 120°-130° | 791.2  | 9.1       |
| 130°-140° | 845.3  | 9.8       |
| 140°-150° | 790.4  | 9.1       |
| 150°-160° | 637.6  | 7.4       |
| 160°-170° | 411.4  | 4.8       |
| 170°-180° | 141.8  | 1.6       |
| 0°-30°    | 1684.3 | 19.5      |
| 0°-40°    | 2422.7 | 28.0      |
| 0°-60°    | 3574.9 | 41.3      |
| 0°-90°    | 4107.5 | 47.5      |
| 90°-120°  | 930.1  | 10.7      |
| 90°-150°  | 3357.1 | 38.8      |
| 90°-180°  | 4548.0 | 52.5      |
| 0°-180°   | 8655.3 | 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°  | 33   | 27   | 1    | 27   | 33   | 16   |
| 95°  | 42   | 34   | 68   | 34   | 42   | 35   |
| 105° | 49   | 243  | 330  | 243  | 49   | 102  |
| 115° | 652  | 636  | 620  | 636  | 652  | 613  |
| 125° | 891  | 887  | 873  | 887  | 891  | 796  |
| 135° | 1098 | 1098 | 1087 | 1098 | 1098 | 847  |
| 145° | 1267 | 1265 | 1255 | 1265 | 1267 | 791  |
| 155° | 1380 | 1381 | 1382 | 1381 | 1380 | 637  |
| 165° | 1454 | 1453 | 1458 | 1453 | 1454 | 411  |
| 175° | 1486 | 1487 | 1492 | 1487 | 1486 | 141  |
| 180° | 1492 | 1492 | 1492 | 1492 | 1492 |      |



TEST NUMBER: P831816

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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°    | 33.3   | 32.8   | 32.3   | 31.8   | 31.3   | 30.5   | 29.6   | 28.6   | 27.6   | 26.6   | 23.4   |
| 92.5°  | 37.7   | 37.4   | 37.2   | 36.9   | 36.7   | 35.7   | 34.0   | 32.3   | 30.5   | 28.8   | 26.6   |
| 95°    | 42.1   | 42.1   | 42.1   | 42.1   | 42.1   | 41.3   | 39.5   | 37.8   | 36.1   | 34.4   | 31.7   |
| 97.5°  | 45.4   | 45.2   | 45.0   | 44.7   | 44.5   | 43.3   | 41.4   | 39.4   | 37.4   | 35.5   | 48.0   |
| 100°   | 46.6   | 46.3   | 46.1   | 45.8   | 45.6   | 44.5   | 42.5   | 40.5   | 38.5   | 36.6   | 75.0   |
| 102.5° | 47.7   | 47.2   | 46.7   | 46.2   | 45.7   | 49.5   | 57.6   | 65.8   | 73.9   | 82.0   | 124.9  |
| 105°   | 48.8   | 48.3   | 47.8   | 47.3   | 46.8   | 68.3   | 111.9  | 155.5  | 199.1  | 242.7  | 264.9  |
| 107.5° | 115.3  | 147.5  | 179.8  | 212.1  | 244.3  | 279.4  | 317.4  | 355.3  | 393.2  | 431.2  | 427.5  |
| 110°   | 304.8  | 340.0  | 375.2  | 410.5  | 445.7  | 467.4  | 475.5  | 483.6  | 491.7  | 499.9  | 497.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 577.5  | 578.0  | 578.4  | 578.9  | 579.4  | 578.6  | 576.4  | 574.1  | 571.9  | 569.7  | 567.0  |
| 115°   | 651.7  | 650.7  | 649.7  | 648.8  | 647.8  | 646.1  | 643.6  | 641.1  | 638.7  | 636.2  | 634.0  |
| 117.5° | 711.6  | 711.3  | 711.1  | 710.8  | 710.6  | 709.5  | 707.5  | 705.5  | 703.6  | 701.6  | 700.4  |
| 120°   | 773.6  | 773.6  | 773.6  | 773.6  | 773.6  | 772.7  | 770.7  | 768.7  | 766.7  | 764.8  | 764.0  |
| 122.5° | 834.6  | 834.4  | 834.1  | 833.9  | 833.6  | 832.9  | 831.6  | 830.4  | 829.2  | 827.9  | 827.0  |
| 125°   | 891.1  | 890.6  | 890.1  | 889.6  | 889.2  | 888.7  | 888.2  | 887.7  | 887.2  | 886.7  | 885.7  |
| 127.5° | 946.5  | 947.0  | 947.5  | 948.0  | 948.5  | 948.4  | 947.7  | 946.9  | 946.2  | 945.4  | 944.2  |
| 130°   | 999.7  | 1000.2 | 1000.7 | 1001.2 | 1001.7 | 1001.5 | 1000.5 | 999.5  | 998.5  | 997.5  | 996.5  |
| 132.5° | 1048.5 | 1049.3 | 1050.0 | 1050.7 | 1051.5 | 1051.3 | 1050.4 | 1049.4 | 1048.4 | 1047.4 | 1046.7 |
| 135°   | 1098.4 | 1099.1 | 1099.9 | 1100.6 | 1101.3 | 1101.3 | 1100.6 | 1099.9 | 1099.1 | 1098.4 | 1097.4 |
| 137.5° | 1146.1 | 1146.5 | 1147.0 | 1147.5 | 1148.0 | 1147.7 | 1146.4 | 1145.2 | 1144.0 | 1142.7 | 1142.2 |
| 140°   | 1188.2 | 1188.7 | 1189.2 | 1189.6 | 1190.1 | 1189.9 | 1188.9 | 1187.9 | 1186.9 | 1186.0 | 1185.2 |
| 142.5° | 1227.0 | 1227.7 | 1228.4 | 1229.2 | 1229.9 | 1229.9 | 1229.2 | 1228.4 | 1227.7 | 1227.0 | 1226.2 |
| 145°   | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.6 | 1266.1 | 1265.6 | 1265.1 | 1264.6 | 1264.2 |
| 147.5° | 1295.7 | 1296.9 | 1298.1 | 1299.4 | 1300.6 | 1301.0 | 1300.5 | 1300.0 | 1299.5 | 1299.0 | 1298.5 |
| 150°   | 1328.9 | 1329.7 | 1330.4 | 1331.1 | 1331.9 | 1332.0 | 1331.5 | 1331.0 | 1330.5 | 1330.0 | 1329.5 |
| 152.5° | 1355.5 | 1356.8 | 1358.0 | 1359.2 | 1360.5 | 1360.6 | 1359.6 | 1358.6 | 1357.6 | 1356.6 | 1356.4 |
| 155°   | 1379.9 | 1381.4 | 1382.9 | 1384.3 | 1385.8 | 1386.0 | 1384.7 | 1383.5 | 1382.3 | 1381.0 | 1380.8 |
| 157.5° | 1401.0 | 1402.9 | 1404.9 | 1406.9 | 1408.9 | 1409.1 | 1407.6 | 1406.1 | 1404.7 | 1403.2 | 1403.4 |
| 160°   | 1420.9 | 1422.7 | 1424.4 | 1426.1 | 1427.8 | 1427.9 | 1426.5 | 1425.0 | 1423.5 | 1422.0 | 1422.3 |
| 162.5° | 1439.8 | 1441.2 | 1442.7 | 1444.2 | 1445.7 | 1445.6 | 1443.8 | 1442.1 | 1440.4 | 1438.7 | 1438.9 |
| 165°   | 1454.2 | 1455.9 | 1457.6 | 1459.3 | 1461.1 | 1461.0 | 1459.0 | 1457.0 | 1455.0 | 1453.1 | 1453.3 |
| 167.5° | 1465.3 | 1467.2 | 1469.2 | 1471.2 | 1473.1 | 1473.1 | 1471.2 | 1469.2 | 1467.2 | 1465.3 | 1465.3 |
| 170°   | 1475.2 | 1477.2 | 1479.2 | 1481.1 | 1483.1 | 1483.1 | 1481.1 | 1479.2 | 1477.2 | 1475.2 | 1475.2 |
| 172.5° | 1480.8 | 1483.0 | 1485.2 | 1487.4 | 1489.6 | 1489.8 | 1487.8 | 1485.8 | 1483.9 | 1481.9 | 1481.6 |
| 175°   | 1486.3 | 1488.3 | 1490.3 | 1492.2 | 1494.2 | 1494.3 | 1492.6 | 1490.9 | 1489.2 | 1487.4 | 1487.2 |
| 177.5° | 1487.4 | 1489.9 | 1492.4 | 1494.8 | 1497.3 | 1497.5 | 1495.6 | 1493.6 | 1491.6 | 1489.6 | 1489.4 |
| 180°   | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 |



TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-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°    | 20.2   | 17.0   | 13.8   | 11.0   | 8.5    | 6.0    | 3.6    | 1.1    | 3.6    | 6.0    | 8.5    |
| 92.5°  | 24.4   | 22.2   | 20.0   | 19.6   | 21.1   | 22.5   | 24.0   | 25.5   | 24.0   | 22.5   | 21.1   |
| 95°    | 28.9   | 26.2   | 23.5   | 27.2   | 37.3   | 47.4   | 57.5   | 67.6   | 57.5   | 47.4   | 37.3   |
| 97.5°  | 60.6   | 73.2   | 85.7   | 95.4   | 102.3  | 109.2  | 116.1  | 123.0  | 116.1  | 109.2  | 102.3  |
| 100°   | 113.4  | 151.8  | 190.3  | 207.0  | 202.1  | 197.2  | 192.2  | 187.3  | 192.2  | 197.2  | 202.1  |
| 102.5° | 167.7  | 210.6  | 253.4  | 273.3  | 270.1  | 266.9  | 263.7  | 260.5  | 263.7  | 266.9  | 270.1  |
| 105°   | 287.1  | 309.2  | 331.4  | 341.1  | 338.4  | 335.7  | 333.0  | 330.3  | 333.0  | 335.7  | 338.4  |
| 107.5° | 423.8  | 420.1  | 416.4  | 413.4  | 411.2  | 409.0  | 406.8  | 404.6  | 406.8  | 409.0  | 411.2  |
| 110°   | 494.5  | 491.7  | 489.0  | 486.7  | 484.7  | 482.8  | 480.8  | 478.8  | 480.8  | 482.8  | 484.7  |





TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 564.3  | 561.6  | 558.9  | 556.6  | 554.9  | 553.2  | 551.5  | 549.7  | 551.5  | 553.2  | 554.9  |
| 115°   | 631.8  | 629.6  | 627.3  | 625.5  | 624.0  | 622.5  | 621.1  | 619.6  | 621.1  | 622.5  | 624.0  |
| 117.5° | 699.1  | 697.9  | 696.7  | 695.2  | 693.5  | 691.7  | 690.0  | 688.3  | 690.0  | 691.7  | 693.5  |
| 120°   | 763.3  | 762.6  | 761.8  | 760.3  | 758.1  | 755.9  | 753.7  | 751.5  | 753.7  | 755.9  | 758.1  |
| 122.5° | 826.0  | 825.0  | 824.0  | 822.7  | 820.9  | 819.2  | 817.5  | 815.8  | 817.5  | 819.2  | 820.9  |
| 125°   | 884.7  | 883.7  | 882.8  | 881.3  | 879.3  | 877.3  | 875.4  | 873.4  | 875.4  | 877.3  | 879.3  |
| 127.5° | 943.0  | 941.7  | 940.5  | 938.9  | 936.9  | 935.0  | 933.0  | 931.0  | 933.0  | 935.0  | 936.9  |
| 130°   | 995.6  | 994.6  | 993.6  | 992.1  | 990.1  | 988.2  | 986.2  | 984.2  | 986.2  | 988.2  | 990.1  |
| 132.5° | 1045.9 | 1045.2 | 1044.5 | 1043.1 | 1041.1 | 1039.2 | 1037.2 | 1035.2 | 1037.2 | 1039.2 | 1041.1 |
| 135°   | 1096.4 | 1095.4 | 1094.5 | 1093.2 | 1091.7 | 1090.3 | 1088.8 | 1087.3 | 1088.8 | 1090.3 | 1091.7 |
| 137.5° | 1141.7 | 1141.2 | 1140.8 | 1139.5 | 1137.6 | 1135.6 | 1133.6 | 1131.6 | 1133.6 | 1135.6 | 1137.6 |
| 140°   | 1184.5 | 1183.7 | 1183.0 | 1181.9 | 1180.4 | 1178.9 | 1177.5 | 1176.0 | 1177.5 | 1178.9 | 1180.4 |
| 142.5° | 1225.5 | 1224.7 | 1224.0 | 1222.9 | 1221.4 | 1219.9 | 1218.5 | 1217.0 | 1218.5 | 1219.9 | 1221.4 |
| 145°   | 1263.7 | 1263.2 | 1262.7 | 1261.6 | 1259.8 | 1258.1 | 1256.4 | 1254.7 | 1256.4 | 1258.1 | 1259.8 |
| 147.5° | 1298.0 | 1297.5 | 1297.0 | 1296.2 | 1294.9 | 1293.7 | 1292.5 | 1291.2 | 1292.5 | 1293.7 | 1294.9 |
| 150°   | 1329.1 | 1328.6 | 1328.1 | 1327.5 | 1326.7 | 1326.0 | 1325.2 | 1324.5 | 1325.2 | 1326.0 | 1326.7 |
| 152.5° | 1356.1 | 1355.9 | 1355.7 | 1355.4 | 1355.2 | 1354.9 | 1354.7 | 1354.4 | 1354.7 | 1354.9 | 1355.2 |
| 155°   | 1380.5 | 1380.3 | 1380.0 | 1380.2 | 1380.7 | 1381.1 | 1381.6 | 1382.1 | 1381.6 | 1381.1 | 1380.7 |
| 157.5° | 1403.7 | 1403.9 | 1404.2 | 1404.3 | 1404.3 | 1404.3 | 1404.3 | 1404.3 | 1404.3 | 1404.3 | 1404.3 |
| 160°   | 1422.5 | 1422.8 | 1423.0 | 1423.3 | 1423.5 | 1423.8 | 1424.0 | 1424.3 | 1424.0 | 1423.8 | 1423.5 |
| 162.5° | 1439.2 | 1439.4 | 1439.6 | 1440.1 | 1440.9 | 1441.6 | 1442.4 | 1443.1 | 1442.4 | 1441.6 | 1440.9 |
| 165°   | 1453.6 | 1453.8 | 1454.1 | 1454.5 | 1455.3 | 1456.0 | 1456.8 | 1457.5 | 1456.8 | 1456.0 | 1455.3 |
| 167.5° | 1465.3 | 1465.3 | 1465.3 | 1465.8 | 1466.7 | 1467.7 | 1468.7 | 1469.7 | 1468.7 | 1467.7 | 1466.7 |
| 170°   | 1475.2 | 1475.2 | 1475.2 | 1475.7 | 1476.7 | 1477.7 | 1478.7 | 1479.7 | 1478.7 | 1477.7 | 1476.7 |
| 172.5° | 1481.4 | 1481.1 | 1480.9 | 1481.4 | 1482.6 | 1483.9 | 1485.1 | 1486.3 | 1485.1 | 1483.9 | 1482.6 |
| 175°   | 1486.9 | 1486.7 | 1486.4 | 1486.9 | 1488.2 | 1489.4 | 1490.6 | 1491.9 | 1490.6 | 1489.4 | 1488.2 |
| 177.5° | 1489.2 | 1488.9 | 1488.7 | 1489.2 | 1490.4 | 1491.6 | 1492.8 | 1494.1 | 1492.8 | 1491.6 | 1490.4 |
| 180°   | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 |



TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-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°    | 11.0   | 13.8   | 17.0   | 20.2   | 23.4   | 26.6   | 27.6   | 28.6   | 29.6   | 30.5   | 31.3   |
| 92.5°  | 19.6   | 20.0   | 22.2   | 24.4   | 26.6   | 28.8   | 30.5   | 32.3   | 34.0   | 35.7   | 36.7   |
| 95°    | 27.2   | 23.5   | 26.2   | 28.9   | 31.7   | 34.4   | 36.1   | 37.8   | 39.5   | 41.3   | 42.1   |
| 97.5°  | 95.4   | 85.7   | 73.2   | 60.6   | 48.0   | 35.5   | 37.4   | 39.4   | 41.4   | 43.3   | 44.5   |
| 100°   | 207.0  | 190.3  | 151.8  | 113.4  | 75.0   | 36.6   | 38.5   | 40.5   | 42.5   | 44.5   | 45.6   |
| 102.5° | 273.3  | 253.4  | 210.6  | 167.7  | 124.9  | 82.0   | 73.9   | 65.8   | 57.6   | 49.5   | 45.7   |
| 105°   | 341.1  | 331.4  | 309.2  | 287.1  | 264.9  | 242.7  | 199.1  | 155.5  | 111.9  | 68.3   | 46.8   |
| 107.5° | 413.4  | 416.4  | 420.1  | 423.8  | 427.5  | 431.2  | 393.2  | 355.3  | 317.4  | 279.4  | 244.3  |
| 110°   | 486.7  | 489.0  | 491.7  | 494.5  | 497.2  | 499.9  | 491.7  | 483.6  | 475.5  | 467.4  | 445.7  |



TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 556.6  | 558.9  | 561.6  | 564.3  | 567.0  | 569.7  | 571.9  | 574.1  | 576.4  | 578.6  | 579.4  |
| 115°   | 625.5  | 627.3  | 629.6  | 631.8  | 634.0  | 636.2  | 638.7  | 641.1  | 643.6  | 646.1  | 647.8  |
| 117.5° | 695.2  | 696.7  | 697.9  | 699.1  | 700.4  | 701.6  | 703.6  | 705.5  | 707.5  | 709.5  | 710.6  |
| 120°   | 760.3  | 761.8  | 762.6  | 763.3  | 764.0  | 764.8  | 766.7  | 768.7  | 770.7  | 772.7  | 773.6  |
| 122.5° | 822.7  | 824.0  | 825.0  | 826.0  | 827.0  | 827.9  | 829.2  | 830.4  | 831.6  | 832.9  | 833.6  |
| 125°   | 881.3  | 882.8  | 883.7  | 884.7  | 885.7  | 886.7  | 887.2  | 887.7  | 888.2  | 888.7  | 889.2  |
| 127.5° | 938.9  | 940.5  | 941.7  | 943.0  | 944.2  | 945.4  | 946.2  | 946.9  | 947.7  | 948.4  | 948.5  |
| 130°   | 992.1  | 993.6  | 994.6  | 995.6  | 996.5  | 997.5  | 998.5  | 999.5  | 1000.5 | 1001.5 | 1001.7 |
| 132.5° | 1043.1 | 1044.5 | 1045.2 | 1045.9 | 1046.7 | 1047.4 | 1048.4 | 1049.4 | 1050.4 | 1051.3 | 1051.5 |
| 135°   | 1093.2 | 1094.5 | 1095.4 | 1096.4 | 1097.4 | 1098.4 | 1099.1 | 1099.9 | 1100.6 | 1101.3 | 1101.3 |
| 137.5° | 1139.5 | 1140.8 | 1141.2 | 1141.7 | 1142.2 | 1142.7 | 1144.0 | 1145.2 | 1146.4 | 1147.7 | 1148.0 |
| 140°   | 1181.9 | 1183.0 | 1183.7 | 1184.5 | 1185.2 | 1186.0 | 1186.9 | 1187.9 | 1188.9 | 1189.9 | 1190.1 |
| 142.5° | 1222.9 | 1224.0 | 1224.7 | 1225.5 | 1226.2 | 1227.0 | 1227.7 | 1228.4 | 1229.2 | 1229.9 | 1229.9 |
| 145°   | 1261.6 | 1262.7 | 1263.2 | 1263.7 | 1264.2 | 1264.6 | 1265.1 | 1265.6 | 1266.1 | 1266.6 | 1266.9 |
| 147.5° | 1296.2 | 1297.0 | 1297.5 | 1298.0 | 1298.5 | 1299.0 | 1299.5 | 1300.0 | 1300.5 | 1301.0 | 1300.6 |
| 150°   | 1327.5 | 1328.1 | 1328.6 | 1329.1 | 1329.5 | 1330.0 | 1330.5 | 1331.0 | 1331.5 | 1332.0 | 1331.9 |
| 152.5° | 1355.4 | 1355.7 | 1355.9 | 1356.1 | 1356.4 | 1356.6 | 1357.6 | 1358.6 | 1359.6 | 1360.6 | 1360.5 |
| 155°   | 1380.2 | 1380.0 | 1380.3 | 1380.5 | 1380.8 | 1381.0 | 1382.3 | 1383.5 | 1384.7 | 1386.0 | 1385.8 |
| 157.5° | 1404.3 | 1404.2 | 1403.9 | 1403.7 | 1403.4 | 1403.2 | 1404.7 | 1406.1 | 1407.6 | 1409.1 | 1408.9 |
| 160°   | 1423.3 | 1423.0 | 1422.8 | 1422.5 | 1422.3 | 1422.0 | 1423.5 | 1425.0 | 1426.5 | 1427.9 | 1427.8 |
| 162.5° | 1440.1 | 1439.6 | 1439.4 | 1439.2 | 1438.9 | 1438.7 | 1440.4 | 1442.1 | 1443.8 | 1445.6 | 1445.7 |
| 165°   | 1454.5 | 1454.1 | 1453.8 | 1453.6 | 1453.3 | 1453.1 | 1455.0 | 1457.0 | 1459.0 | 1461.0 | 1461.1 |
| 167.5° | 1465.8 | 1465.3 | 1465.3 | 1465.3 | 1465.3 | 1465.3 | 1467.2 | 1469.2 | 1471.2 | 1473.1 | 1473.1 |
| 170°   | 1475.7 | 1475.2 | 1475.2 | 1475.2 | 1475.2 | 1475.2 | 1477.2 | 1479.2 | 1481.1 | 1483.1 | 1483.1 |
| 172.5° | 1481.4 | 1480.9 | 1481.1 | 1481.4 | 1481.6 | 1481.9 | 1483.9 | 1485.8 | 1487.8 | 1489.8 | 1489.6 |
| 175°   | 1486.9 | 1486.4 | 1486.7 | 1486.9 | 1487.2 | 1487.4 | 1489.2 | 1490.9 | 1492.6 | 1494.3 | 1494.2 |
| 177.5° | 1489.2 | 1488.7 | 1488.9 | 1489.2 | 1489.4 | 1489.6 | 1491.6 | 1493.6 | 1495.6 | 1497.5 | 1497.3 |
| 180°   | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 | 1491.9 |



TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-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°    | 31.8   | 32.3   | 32.8   | 33.3   |
| 92.5°  | 36.9   | 37.2   | 37.4   | 37.7   |
| 95°    | 42.1   | 42.1   | 42.1   | 42.1   |
| 97.5°  | 44.7   | 45.0   | 45.2   | 45.4   |
| 100°   | 45.8   | 46.1   | 46.3   | 46.6   |
| 102.5° | 46.2   | 46.7   | 47.2   | 47.7   |
| 105°   | 47.3   | 47.8   | 48.3   | 48.8   |
| 107.5° | 212.1  | 179.8  | 147.5  | 115.3  |
| 110°   | 410.5  | 375.2  | 340.0  | 304.8  |



TEST NUMBER: P831816

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**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 578.9  | 578.4  | 578.0  | 577.5  |
| 115°   | 648.8  | 649.7  | 650.7  | 651.7  |
| 117.5° | 710.8  | 711.1  | 711.3  | 711.6  |
| 120°   | 773.6  | 773.6  | 773.6  | 773.6  |
| 122.5° | 833.9  | 834.1  | 834.4  | 834.6  |
| 125°   | 889.6  | 890.1  | 890.6  | 891.1  |
| 127.5° | 948.0  | 947.5  | 947.0  | 946.5  |
| 130°   | 1001.2 | 1000.7 | 1000.2 | 999.7  |
| 132.5° | 1050.7 | 1050.0 | 1049.3 | 1048.5 |
| 135°   | 1100.6 | 1099.9 | 1099.1 | 1098.4 |
| 137.5° | 1147.5 | 1147.0 | 1146.5 | 1146.1 |
| 140°   | 1189.6 | 1189.2 | 1188.7 | 1188.2 |
| 142.5° | 1229.2 | 1228.4 | 1227.7 | 1227.0 |
| 145°   | 1266.9 | 1266.9 | 1266.9 | 1266.9 |
| 147.5° | 1299.4 | 1298.1 | 1296.9 | 1295.7 |
| 150°   | 1331.1 | 1330.4 | 1329.7 | 1328.9 |
| 152.5° | 1359.2 | 1358.0 | 1356.8 | 1355.5 |
| 155°   | 1384.3 | 1382.9 | 1381.4 | 1379.9 |
| 157.5° | 1406.9 | 1404.9 | 1402.9 | 1401.0 |
| 160°   | 1426.1 | 1424.4 | 1422.7 | 1420.9 |
| 162.5° | 1444.2 | 1442.7 | 1441.2 | 1439.8 |
| 165°   | 1459.3 | 1457.6 | 1455.9 | 1454.2 |
| 167.5° | 1471.2 | 1469.2 | 1467.2 | 1465.3 |
| 170°   | 1481.1 | 1479.2 | 1477.2 | 1475.2 |
| 172.5° | 1487.4 | 1485.2 | 1483.0 | 1480.8 |
| 175°   | 1492.2 | 1490.3 | 1488.3 | 1486.3 |
| 177.5° | 1494.8 | 1492.4 | 1489.9 | 1487.4 |
| 180°   | 1491.9 | 1491.9 | 1491.9 | 1491.9 |



TEST NUMBER: P831816

CATALOG NUMBER: S123RDIP-S1000D1195U950-4F0-1E-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 | 12.68            | 13.47 | 13.67 | 14.47 | 15.78 | 17.35          | 18.14 | 18.34 | 19.13 | 20.44 |
|                 | 3H   | 13.90            | 14.61 | 14.90 | 15.61 | 16.94 | 18.84          | 19.55 | 19.84 | 20.55 | 21.88 |
|                 | 4H   | 14.28            | 14.95 | 15.30 | 15.95 | 17.30 | 19.33          | 20.00 | 20.34 | 21.00 | 22.35 |
|                 | 6H   | 14.56            | 15.17 | 15.58 | 16.18 | 17.54 | 19.64          | 20.25 | 20.66 | 21.26 | 22.62 |
|                 | 8H   | 14.65            | 15.23 | 15.68 | 16.26 | 17.61 | 19.72          | 20.30 | 20.75 | 21.33 | 22.68 |
|                 | 12H  | 14.70            | 15.25 | 15.73 | 16.27 | 17.64 | 19.75          | 20.30 | 20.78 | 21.32 | 22.70 |
| 4H              | 2H   | 13.40            | 14.07 | 14.42 | 15.07 | 16.42 | 17.34          | 18.00 | 18.36 | 19.01 | 20.35 |
|                 | 3H   | 14.77            | 15.32 | 15.79 | 16.36 | 17.71 | 18.99          | 19.55 | 20.02 | 20.58 | 21.93 |
|                 | 4H   | 15.22            | 15.73 | 16.26 | 16.75 | 18.13 | 19.60          | 20.10 | 20.63 | 21.13 | 22.51 |
|                 | 6H   | 15.59            | 16.02 | 16.63 | 17.07 | 18.44 | 20.03          | 20.47 | 21.08 | 21.52 | 22.89 |
|                 | 8H   | 15.71            | 16.12 | 16.76 | 17.16 | 18.55 | 20.16          | 20.57 | 21.21 | 21.61 | 23.00 |
|                 | 12H  | 15.78            | 16.15 | 16.85 | 17.21 | 18.60 | 20.22          | 20.59 | 21.29 | 21.65 | 23.04 |
| 8H              | 4H   | 15.53            | 15.94 | 16.58 | 16.98 | 18.37 | 19.56          | 19.97 | 20.61 | 21.01 | 22.40 |
|                 | 6H   | 15.99            | 16.33 | 17.06 | 17.41 | 18.80 | 20.06          | 20.39 | 21.12 | 21.47 | 22.86 |
|                 | 8H   | 16.19            | 16.48 | 17.26 | 17.55 | 18.95 | 20.24          | 20.53 | 21.32 | 21.60 | 23.01 |
|                 | 12H  | 16.33            | 16.58 | 17.40 | 17.65 | 19.09 | 20.36          | 20.61 | 21.43 | 21.68 | 23.12 |
| 12H             | 4H   | 15.54            | 15.91 | 16.60 | 16.96 | 18.36 | 19.51          | 19.87 | 20.57 | 20.93 | 22.33 |
|                 | 6H   | 16.05            | 16.35 | 17.13 | 17.42 | 18.82 | 20.03          | 20.32 | 21.11 | 21.39 | 22.80 |
|                 | 8H   | 16.27            | 16.53 | 17.35 | 17.59 | 19.04 | 20.22          | 20.48 | 21.30 | 21.54 | 22.99 |