

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: P832304

Luminaire Tested: S123RDIP-S560D805U950-4F0-1E-UDD-G4

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832304  
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-S560D805U950-4F0-1E-UDD-G4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: -

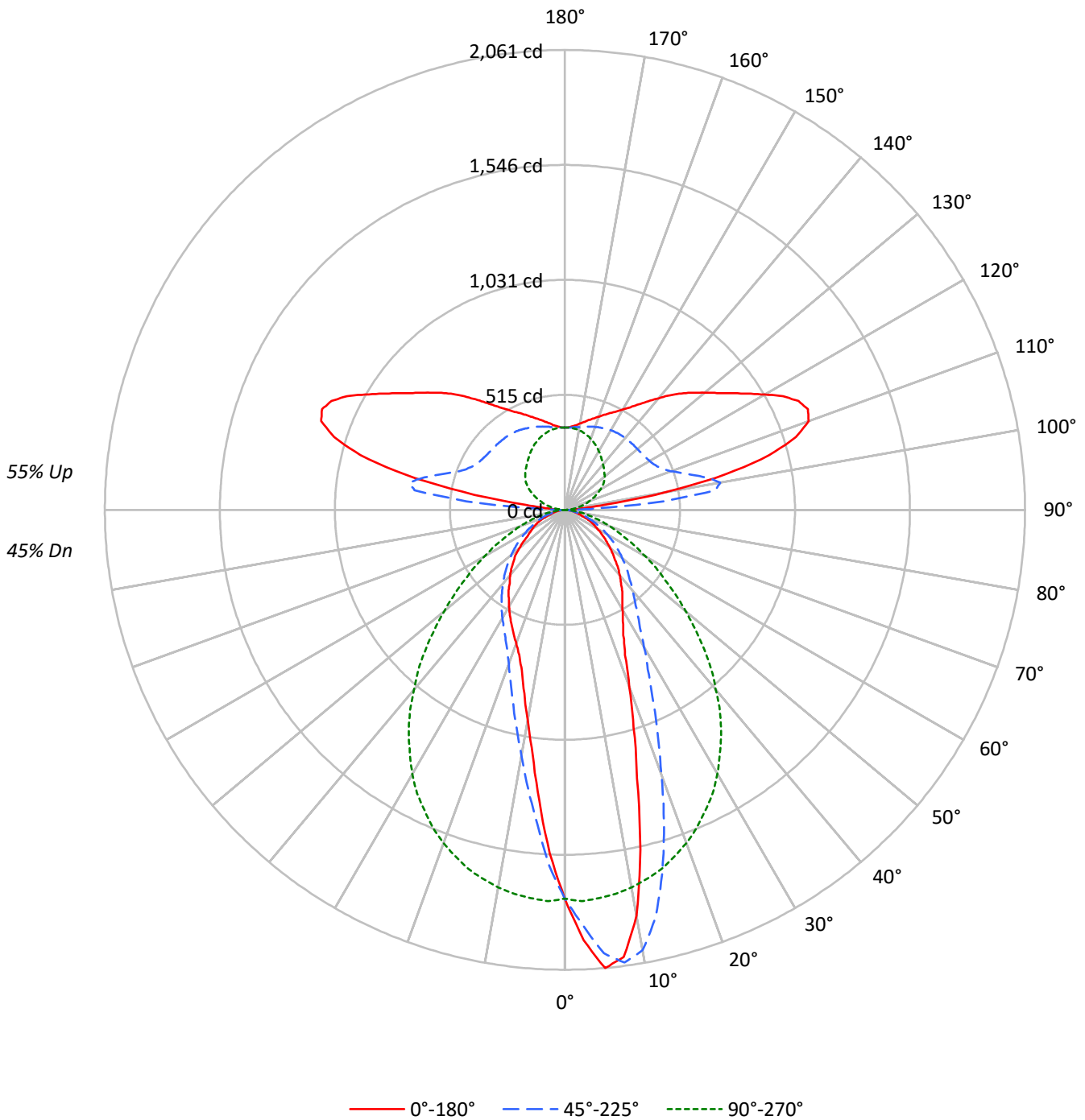
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5083.7 lumens  
Efficiency: N/A  
Efficacy: 126.5 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): 40.2  
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

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### Luminous Intensity Polar Plot





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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 45 |    |    |    | 45 |
| 1   | 97  | 93  | 90  | 87  | 89 | 86 | 83 | 80 | 72 | 70 | 68 | 59 | 57 | 56 | 47 | 46 | 45 |    |    |    | 40 |    |
| 2   | 89  | 82  | 77  | 72  | 82 | 76 | 71 | 67 | 64 | 60 | 57 | 53 | 50 | 48 | 42 | 41 | 39 |    |    |    | 35 |    |
| 3   | 82  | 73  | 66  | 61  | 75 | 68 | 62 | 57 | 57 | 53 | 49 | 47 | 44 | 42 | 38 | 36 | 34 |    |    |    | 30 |    |
| 4   | 76  | 65  | 58  | 52  | 69 | 61 | 54 | 49 | 51 | 46 | 43 | 43 | 39 | 36 | 35 | 32 | 30 |    |    |    | 27 |    |
| 5   | 70  | 59  | 51  | 45  | 64 | 54 | 48 | 43 | 46 | 41 | 37 | 39 | 35 | 32 | 32 | 29 | 27 |    |    |    | 24 |    |
| 6   | 64  | 53  | 45  | 40  | 59 | 49 | 43 | 38 | 42 | 37 | 33 | 36 | 32 | 29 | 29 | 27 | 24 |    |    |    | 22 |    |
| 7   | 60  | 48  | 41  | 35  | 55 | 45 | 38 | 34 | 39 | 33 | 30 | 33 | 29 | 26 | 27 | 24 | 22 |    |    |    | 20 |    |
| 8   | 56  | 44  | 37  | 32  | 51 | 41 | 35 | 30 | 35 | 30 | 27 | 30 | 26 | 23 | 25 | 22 | 20 |    |    |    | 18 |    |
| 9   | 52  | 41  | 33  | 29  | 48 | 38 | 31 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 21 | 19 |    |    |    | 16 |    |
| 10  | 49  | 37  | 30  | 26  | 45 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 20 | 22 | 19 | 17 |    |    |    | 15 |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 18755 | 18755 | 18755 | 18755 | 18755 |
| 5°  | 22269 | 21558 | 18872 | 15257 | 14164 |
| 10° | 20176 | 21898 | 18779 | 12223 | 10486 |
| 15° | 13892 | 18775 | 18580 | 9990  | 8295  |
| 20° | 9664  | 14455 | 18207 | 8424  | 7291  |
| 25° | 7365  | 11017 | 17664 | 7487  | 6720  |
| 30° | 6411  | 8809  | 16986 | 6953  | 6224  |
| 35° | 5886  | 7430  | 16023 | 6501  | 5773  |
| 40° | 5370  | 6635  | 14765 | 6058  | 5361  |
| 45° | 4850  | 6068  | 13408 | 5638  | 4947  |
| 50° | 4402  | 5598  | 11807 | 5228  | 4438  |
| 55° | 3982  | 5142  | 10269 | 4827  | 3808  |
| 60° | 3567  | 4676  | 8919  | 4383  | 3599  |
| 65° | 3293  | 4149  | 7679  | 3940  | 3403  |
| 70° | 2675  | 3585  | 6700  | 3563  | 2766  |
| 75° | 2346  | 2853  | 5673  | 2957  | 2437  |
| 80° | 2126  | 2411  | 4649  | 2479  | 2300  |
| 85° | 1939  | 2112  | 3532  | 2248  | 2112  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 14148 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.8  | 3.1       |
| 10°-20°   | 367.5  | 7.2       |
| 20°-30°   | 421.6  | 8.3       |
| 30°-40°   | 415.6  | 8.2       |
| 40°-50°   | 366.5  | 7.2       |
| 50°-60°   | 282.0  | 5.5       |
| 60°-70°   | 185.4  | 3.6       |
| 70°-80°   | 90.0   | 1.8       |
| 80°-90°   | 24.7   | 0.5       |
| 90°-100°  | 199.9  | 3.9       |
| 100°-110° | 585.4  | 11.5      |
| 110°-120° | 571.6  | 11.2      |
| 120°-130° | 455.2  | 9.0       |
| 130°-140° | 359.2  | 7.1       |
| 140°-150° | 267.9  | 5.3       |
| 150°-160° | 186.8  | 3.7       |
| 160°-170° | 109.7  | 2.2       |
| 170°-180° | 35.7   | 0.7       |
| 0°-30°    | 947.9  | 18.6      |
| 0°-40°    | 1363.5 | 26.8      |
| 0°-60°    | 2012.0 | 39.6      |
| 0°-90°    | 2312.1 | 45.5      |
| 90°-120°  | 1356.9 | 26.7      |
| 90°-150°  | 2439.3 | 48.0      |
| 90°-180°  | 2772.0 | 54.5      |
| 0°-180°   | 5083.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1742 | 1742 | 1742 | 1742 | 1742 |      |
| 5°   | 2061 | 1995 | 1747 | 1412 | 1311 | 188  |
| 15°  | 1247 | 1685 | 1667 | 896  | 744  | 352  |
| 25°  | 620  | 928  | 1487 | 630  | 566  | 293  |
| 35°  | 448  | 565  | 1219 | 495  | 439  | 279  |
| 45°  | 319  | 399  | 881  | 370  | 325  | 247  |
| 55°  | 212  | 274  | 547  | 257  | 203  | 190  |
| 65°  | 129  | 163  | 302  | 155  | 134  | 127  |
| 75°  | 56   | 69   | 136  | 71   | 59   | 61   |
| 85°  | 16   | 17   | 29   | 18   | 17   | 17   |
| 90°  | 22   | 19   | 2    | 19   | 22   | 12   |
| 95°  | 86   | 442  | 25   | 442  | 86   | 141  |
| 105° | 949  | 600  | 86   | 600  | 949  | 946  |
| 115° | 1154 | 459  | 153  | 459  | 1154 | 1125 |
| 125° | 910  | 428  | 213  | 428  | 910  | 823  |
| 135° | 738  | 422  | 249  | 422  | 738  | 572  |
| 145° | 576  | 417  | 284  | 417  | 576  | 366  |
| 155° | 478  | 404  | 323  | 404  | 478  | 223  |
| 165° | 417  | 386  | 353  | 386  | 417  | 119  |
| 175° | 375  | 371  | 368  | 371  | 375  | 36   |
| 180° | 368  | 368  | 368  | 368  | 368  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 |
| 2.5°   | 1930.9 | 1924.9 | 1918.8 | 1917.0 | 1915.2 | 1909.5 | 1903.8 | 1890.9 | 1878.1 | 1864.9 | 1851.7 |
| 5°     | 2061.0 | 2061.7 | 2062.4 | 2060.6 | 2058.8 | 2051.3 | 2043.8 | 2028.1 | 2012.4 | 1995.2 | 1978.1 |
| 7.5°   | 2021.0 | 2032.4 | 2043.8 | 2046.0 | 2048.1 | 2053.8 | 2059.5 | 2056.0 | 2052.4 | 2046.0 | 2039.5 |
| 10°    | 1845.9 | 1845.2 | 1844.5 | 1857.4 | 1870.2 | 1908.4 | 1946.7 | 1966.3 | 1986.0 | 2003.5 | 2021.0 |
| 12.5°  | 1560.2 | 1561.3 | 1562.3 | 1604.5 | 1646.6 | 1682.7 | 1718.8 | 1768.8 | 1818.8 | 1872.7 | 1926.7 |
| 15°    | 1246.6 | 1264.1 | 1281.6 | 1319.1 | 1356.6 | 1410.9 | 1465.2 | 1532.3 | 1599.5 | 1684.8 | 1770.2 |
| 17.5°  | 1023.7 | 1031.2 | 1038.7 | 1074.8 | 1110.8 | 1162.3 | 1213.7 | 1289.8 | 1365.9 | 1475.9 | 1585.9 |
| 20°    | 843.7  | 850.5  | 857.2  | 883.3  | 909.4  | 958.7  | 1008.0 | 1080.5 | 1153.0 | 1261.9 | 1370.9 |
| 22.5°  | 704.4  | 717.6  | 730.8  | 748.3  | 765.8  | 801.5  | 837.2  | 911.2  | 985.1  | 1084.4 | 1183.7 |
| 25°    | 620.1  | 626.1  | 632.2  | 647.2  | 662.2  | 696.5  | 730.8  | 779.7  | 828.7  | 927.6  | 1026.6 |
| 27.5°  | 562.9  | 564.7  | 566.5  | 577.6  | 588.6  | 610.8  | 632.9  | 678.3  | 723.7  | 805.1  | 886.5  |
| 30°    | 515.8  | 519.0  | 522.2  | 530.8  | 539.4  | 555.4  | 571.5  | 603.6  | 635.8  | 708.7  | 781.5  |
| 32.5°  | 479.3  | 481.1  | 482.9  | 490.1  | 497.2  | 509.0  | 520.8  | 546.1  | 571.5  | 627.2  | 682.9  |
| 35°    | 447.9  | 448.3  | 448.6  | 454.0  | 459.3  | 470.8  | 482.2  | 503.3  | 524.3  | 565.4  | 606.5  |
| 37.5°  | 412.2  | 414.7  | 417.2  | 421.1  | 425.1  | 435.1  | 445.1  | 462.2  | 479.3  | 513.3  | 547.2  |
| 40°    | 382.2  | 384.3  | 386.5  | 391.1  | 395.8  | 403.6  | 411.5  | 427.2  | 442.9  | 472.2  | 501.5  |
| 42.5°  | 352.2  | 353.6  | 355.0  | 359.7  | 364.3  | 374.0  | 383.6  | 396.1  | 408.6  | 432.9  | 457.2  |
| 45°    | 318.6  | 322.2  | 325.8  | 330.8  | 335.8  | 344.0  | 352.2  | 365.0  | 377.9  | 398.6  | 419.3  |
| 47.5°  | 290.7  | 292.5  | 294.3  | 298.6  | 302.9  | 312.9  | 322.9  | 334.3  | 345.8  | 365.0  | 384.3  |
| 50°    | 262.9  | 263.6  | 264.3  | 268.2  | 272.2  | 281.1  | 290.0  | 303.3  | 316.5  | 334.3  | 352.2  |
| 52.5°  | 236.5  | 238.2  | 240.0  | 244.0  | 247.9  | 254.0  | 260.0  | 273.6  | 287.2  | 304.7  | 322.2  |
| 55°    | 212.2  | 213.2  | 214.3  | 217.2  | 220.0  | 227.2  | 234.3  | 246.1  | 257.9  | 274.0  | 290.0  |
| 57.5°  | 189.3  | 190.7  | 192.2  | 194.3  | 196.5  | 202.9  | 209.3  | 219.7  | 230.0  | 246.1  | 262.2  |
| 60°    | 165.7  | 167.5  | 169.3  | 171.8  | 174.3  | 179.3  | 184.3  | 193.6  | 202.9  | 217.2  | 231.5  |
| 62.5°  | 148.6  | 148.9  | 149.3  | 151.4  | 153.6  | 157.2  | 160.7  | 168.2  | 175.7  | 190.0  | 204.3  |
| 65°    | 129.3  | 130.4  | 131.4  | 132.5  | 133.6  | 136.4  | 139.3  | 145.7  | 152.2  | 162.9  | 173.6  |
| 67.5°  | 109.3  | 110.4  | 111.4  | 113.2  | 115.0  | 117.5  | 120.0  | 124.3  | 128.6  | 138.6  | 148.6  |
| 70°    | 85.0   | 85.0   | 85.0   | 87.9   | 90.7   | 95.0   | 99.3   | 102.5  | 105.7  | 113.9  | 122.2  |
| 72.5°  | 69.3   | 69.7   | 70.0   | 70.4   | 70.7   | 73.2   | 75.7   | 81.1   | 86.4   | 91.4   | 96.4   |
| 75°    | 56.4   | 56.8   | 57.1   | 57.5   | 57.9   | 58.6   | 59.3   | 61.1   | 62.9   | 68.6   | 74.3   |
| 77.5°  | 45.0   | 45.4   | 45.7   | 46.1   | 46.4   | 47.1   | 47.9   | 48.6   | 49.3   | 51.4   | 53.6   |
| 80°    | 34.3   | 34.6   | 35.0   | 35.4   | 35.7   | 36.1   | 36.4   | 37.1   | 37.9   | 38.9   | 40.0   |
| 82.5°  | 25.0   | 25.0   | 25.0   | 25.0   | 25.0   | 25.7   | 26.4   | 26.4   | 26.4   | 27.1   | 27.9   |
| 85°    | 15.7   | 15.7   | 15.7   | 16.1   | 16.4   | 16.4   | 16.4   | 16.8   | 17.1   | 17.1   | 17.1   |
| 87.5°  | 7.1    | 6.8    | 6.4    | 6.8    | 7.1    | 7.1    | 7.1    | 7.5    | 7.9    | 7.9    | 7.9    |
| 90°    | 21.6   | 22.4   | 21.6   | 20.9   | 21.6   | 20.1   | 19.4   | 18.6   | 17.9   | 18.6   | 16.4   |
| 92.5°  | 39.5   | 41.0   | 40.3   | 43.3   | 44.8   | 50.0   | 57.4   | 73.8   | 103.7  | 138.7  | 153.6  |
| 95°    | 86.5   | 89.5   | 94.7   | 101.4  | 115.6  | 142.5  | 182.0  | 268.5  | 358.8  | 442.3  | 393.8  |
| 97.5°  | 177.5  | 185.7  | 203.6  | 232.0  | 281.9  | 367.0  | 465.4  | 616.8  | 703.3  | 680.2  | 507.9  |
| 100°   | 467.7  | 466.9  | 496.0  | 550.4  | 625.8  | 731.7  | 819.0  | 879.4  | 853.3  | 706.3  | 477.3  |
| 102.5° | 740.6  | 762.3  | 785.4  | 825.7  | 880.1  | 937.5  | 979.3  | 966.6  | 860.7  | 657.8  | 432.6  |
| 105°   | 948.7  | 952.5  | 976.3  | 1004.7 | 1039.0 | 1058.4 | 1044.2 | 969.6  | 813.7  | 599.7  | 397.5  |
| 107.5° | 1084.5 | 1092.7 | 1102.4 | 1115.8 | 1120.3 | 1100.1 | 1042.0 | 924.9  | 746.6  | 548.2  | 372.2  |
| 110°   | 1162.0 | 1163.5 | 1165.0 | 1159.1 | 1138.2 | 1086.0 | 992.0  | 854.8  | 684.0  | 505.7  | 358.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 112.5° | 1177.7 | 1177.0 | 1169.5 | 1147.9 | 1105.4 | 1034.5 | 926.4 | 785.4 | 629.5 | 477.3 | 351.3 |
| 115°   | 1153.8 | 1150.1 | 1135.2 | 1102.4 | 1046.4 | 965.1  | 855.5 | 725.7 | 587.7 | 458.7 | 350.6 |
| 117.5° | 1101.6 | 1096.4 | 1074.0 | 1037.5 | 979.3  | 895.0  | 794.3 | 679.5 | 560.1 | 446.0 | 351.3 |
| 120°   | 1033.0 | 1028.5 | 1010.6 | 968.9  | 909.9  | 834.6  | 745.1 | 644.4 | 539.3 | 437.8 | 354.3 |
| 122.5° | 968.9  | 962.9  | 942.8  | 906.2  | 855.5  | 786.9  | 705.6 | 616.8 | 522.1 | 432.6 | 359.5 |
| 125°   | 909.9  | 904.7  | 886.1  | 853.3  | 805.5  | 745.9  | 674.3 | 593.0 | 507.9 | 428.1 | 364.7 |
| 127.5° | 859.2  | 854.8  | 837.6  | 809.3  | 766.0  | 710.8  | 645.2 | 571.3 | 494.5 | 425.9 | 370.7 |
| 130°   | 817.5  | 811.5  | 795.8  | 769.0  | 729.4  | 678.7  | 618.3 | 551.2 | 484.1 | 423.6 | 376.7 |
| 132.5° | 776.4  | 772.7  | 759.3  | 732.4  | 695.9  | 648.1  | 593.0 | 532.5 | 474.4 | 422.9 | 381.1 |
| 135°   | 737.7  | 732.4  | 719.0  | 696.6  | 660.1  | 617.6  | 569.1 | 516.1 | 466.2 | 422.2 | 385.6 |
| 137.5° | 696.6  | 692.2  | 681.0  | 657.8  | 626.5  | 588.5  | 545.2 | 500.5 | 458.7 | 420.7 | 388.6 |
| 140°   | 653.4  | 654.1  | 642.2  | 621.3  | 593.0  | 560.9  | 525.1 | 487.0 | 452.0 | 419.9 | 391.6 |
| 142.5° | 613.1  | 613.8  | 603.4  | 585.5  | 562.4  | 535.5  | 505.7 | 474.4 | 446.0 | 418.4 | 393.8 |
| 145°   | 576.5  | 575.1  | 569.1  | 553.4  | 534.8  | 513.1  | 489.3 | 464.7 | 440.8 | 416.9 | 394.6 |
| 147.5° | 545.2  | 544.5  | 538.5  | 527.3  | 512.4  | 496.7  | 476.6 | 456.5 | 435.6 | 414.7 | 394.6 |
| 150°   | 518.4  | 518.4  | 513.9  | 505.7  | 494.5  | 480.3  | 464.7 | 447.5 | 430.4 | 411.7 | 394.6 |
| 152.5° | 496.0  | 496.0  | 493.8  | 486.3  | 478.1  | 466.9  | 453.5 | 439.3 | 424.4 | 408.0 | 392.3 |
| 155°   | 478.1  | 477.3  | 475.9  | 469.9  | 463.2  | 454.2  | 443.0 | 431.1 | 418.4 | 403.5 | 390.8 |
| 157.5° | 460.9  | 460.9  | 459.4  | 455.0  | 449.0  | 441.5  | 432.6 | 422.2 | 411.7 | 399.8 | 388.6 |
| 160°   | 444.5  | 445.3  | 445.3  | 440.8  | 435.6  | 430.4  | 422.9 | 414.7 | 405.0 | 395.3 | 387.1 |
| 162.5° | 429.6  | 430.4  | 430.4  | 426.6  | 423.6  | 419.2  | 412.5 | 405.7 | 398.3 | 390.8 | 384.1 |
| 165°   | 416.9  | 416.9  | 417.7  | 414.7  | 411.7  | 408.0  | 402.8 | 398.3 | 392.3 | 386.4 | 381.1 |
| 167.5° | 404.3  | 404.3  | 405.0  | 402.8  | 401.3  | 398.3  | 395.3 | 391.6 | 386.4 | 381.9 | 378.1 |
| 170°   | 393.1  | 393.1  | 393.8  | 392.3  | 391.6  | 390.1  | 387.1 | 384.9 | 381.1 | 377.4 | 375.2 |
| 172.5° | 382.6  | 383.4  | 384.9  | 383.4  | 383.4  | 382.6  | 380.4 | 378.9 | 375.9 | 373.7 | 372.9 |
| 175°   | 375.2  | 375.9  | 376.7  | 375.9  | 375.9  | 375.9  | 374.4 | 373.7 | 372.2 | 370.7 | 370.7 |
| 177.5° | 369.9  | 369.9  | 371.4  | 370.7  | 371.4  | 371.4  | 370.7 | 369.9 | 369.2 | 368.5 | 369.2 |
| 180°   | 368.5  | 368.5  | 368.5  | 368.5  | 368.5  | 368.5  | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 |

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CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 |
| 2.5°   | 1849.9 | 1848.1 | 1830.9 | 1813.8 | 1797.0 | 1780.2 | 1767.7 | 1755.2 | 1734.1 | 1713.1 | 1699.8 |
| 5°     | 1964.5 | 1950.9 | 1923.8 | 1896.7 | 1855.9 | 1815.2 | 1780.9 | 1746.6 | 1703.1 | 1659.5 | 1623.1 |
| 7.5°   | 2028.5 | 2017.4 | 1984.5 | 1951.7 | 1897.7 | 1843.8 | 1790.2 | 1736.6 | 1672.3 | 1608.1 | 1553.0 |
| 10°    | 2030.2 | 2039.5 | 2012.4 | 1985.2 | 1924.5 | 1863.8 | 1790.9 | 1718.1 | 1631.6 | 1545.2 | 1474.1 |
| 12.5°  | 1966.7 | 2006.7 | 2001.0 | 1995.2 | 1933.4 | 1871.7 | 1783.1 | 1694.5 | 1588.4 | 1482.3 | 1393.4 |
| 15°    | 1847.7 | 1925.2 | 1948.1 | 1971.0 | 1919.9 | 1868.8 | 1768.1 | 1667.3 | 1542.7 | 1418.0 | 1315.9 |
| 17.5°  | 1694.5 | 1803.1 | 1863.4 | 1923.8 | 1886.7 | 1849.5 | 1739.1 | 1628.8 | 1488.4 | 1348.0 | 1236.9 |
| 20°    | 1513.0 | 1655.2 | 1749.9 | 1844.5 | 1830.9 | 1817.4 | 1703.4 | 1589.5 | 1438.0 | 1286.6 | 1166.2 |
| 22.5°  | 1333.7 | 1483.8 | 1614.5 | 1745.2 | 1759.1 | 1773.1 | 1658.1 | 1543.0 | 1377.3 | 1211.6 | 1089.1 |
| 25°    | 1179.1 | 1331.6 | 1487.3 | 1643.1 | 1674.5 | 1705.9 | 1596.6 | 1487.3 | 1315.5 | 1143.7 | 1021.9 |
| 27.5°  | 1031.6 | 1176.6 | 1348.0 | 1519.5 | 1576.6 | 1633.8 | 1533.8 | 1433.7 | 1254.8 | 1075.8 | 954.4  |
| 30°    | 911.2  | 1040.8 | 1215.9 | 1390.9 | 1470.5 | 1550.2 | 1458.4 | 1366.6 | 1189.1 | 1011.6 | 892.6  |
| 32.5°  | 799.0  | 915.1  | 1090.8 | 1266.6 | 1359.1 | 1451.6 | 1372.3 | 1293.0 | 1122.3 | 951.5  | 834.0  |
| 35°    | 710.4  | 814.4  | 978.3  | 1142.3 | 1245.9 | 1349.4 | 1284.4 | 1219.4 | 1052.6 | 885.8  | 774.7  |
| 37.5°  | 634.4  | 721.5  | 875.5  | 1029.4 | 1139.4 | 1249.4 | 1195.1 | 1140.9 | 984.0  | 827.2  | 722.2  |
| 40°    | 571.5  | 641.5  | 784.7  | 928.0  | 1035.8 | 1143.7 | 1097.3 | 1050.8 | 910.5  | 770.1  | 671.9  |
| 42.5°  | 517.6  | 577.9  | 706.5  | 835.1  | 934.0  | 1033.0 | 1002.3 | 971.5  | 844.4  | 717.2  | 626.1  |
| 45°    | 470.1  | 520.8  | 634.0  | 747.2  | 838.3  | 929.4  | 905.1  | 880.8  | 771.2  | 661.5  | 577.9  |
| 47.5°  | 427.9  | 471.5  | 572.6  | 673.7  | 755.4  | 837.2  | 814.7  | 792.2  | 701.5  | 610.8  | 534.7  |
| 50°    | 389.3  | 426.5  | 510.8  | 595.1  | 668.7  | 742.2  | 723.7  | 705.1  | 630.1  | 555.1  | 489.3  |
| 52.5°  | 352.9  | 383.6  | 459.3  | 535.1  | 594.4  | 653.7  | 639.4  | 625.1  | 567.2  | 509.3  | 449.7  |
| 55°    | 318.3  | 346.5  | 410.4  | 474.3  | 525.1  | 575.8  | 561.5  | 547.2  | 502.2  | 457.2  | 404.7  |
| 57.5°  | 286.8  | 311.5  | 363.3  | 415.1  | 455.4  | 495.8  | 489.0  | 482.2  | 444.7  | 407.2  | 364.0  |
| 60°    | 253.6  | 275.7  | 320.4  | 365.0  | 397.5  | 430.1  | 422.2  | 414.3  | 387.5  | 360.8  | 323.6  |
| 62.5°  | 224.0  | 243.6  | 279.3  | 315.0  | 341.5  | 367.9  | 362.2  | 356.5  | 336.1  | 315.8  | 285.0  |
| 65°    | 192.9  | 212.2  | 241.1  | 270.0  | 290.7  | 311.5  | 306.5  | 301.5  | 286.1  | 270.7  | 246.1  |
| 67.5°  | 164.7  | 180.7  | 205.7  | 230.7  | 244.7  | 258.6  | 255.7  | 252.9  | 241.1  | 229.3  | 210.0  |
| 70°    | 136.1  | 150.0  | 170.7  | 191.5  | 201.1  | 210.7  | 211.8  | 212.9  | 202.2  | 191.5  | 177.2  |
| 72.5°  | 107.5  | 118.6  | 137.9  | 157.2  | 164.7  | 172.2  | 171.8  | 171.4  | 165.0  | 158.6  | 145.7  |
| 75°    | 82.5   | 90.7   | 105.7  | 120.7  | 127.2  | 133.6  | 135.0  | 136.4  | 130.4  | 124.3  | 117.2  |
| 77.5°  | 59.3   | 65.0   | 76.4   | 87.9   | 95.0   | 102.2  | 102.9  | 103.6  | 100.7  | 97.9   | 91.1   |
| 80°    | 41.8   | 43.6   | 50.7   | 57.9   | 65.4   | 72.9   | 73.9   | 75.0   | 72.2   | 69.3   | 65.0   |
| 82.5°  | 28.9   | 30.0   | 32.5   | 35.0   | 41.1   | 47.1   | 48.6   | 50.0   | 48.6   | 47.1   | 42.5   |
| 85°    | 17.5   | 17.9   | 18.9   | 20.0   | 22.9   | 25.7   | 27.1   | 28.6   | 27.9   | 27.1   | 24.6   |
| 87.5°  | 7.9    | 7.9    | 8.2    | 8.6    | 9.3    | 10.0   | 11.8   | 13.6   | 12.5   | 11.4   | 10.4   |
| 90°    | 14.2   | 11.9   | 9.7    | 8.2    | 6.7    | 4.5    | 3.0    | 1.5    | 3.0    | 4.5    | 6.7    |
| 92.5°  | 114.9  | 75.3   | 51.5   | 38.0   | 30.6   | 23.9   | 16.4   | 11.2   | 16.4   | 23.9   | 30.6   |
| 95°    | 271.5  | 160.4  | 97.0   | 67.9   | 48.5   | 35.8   | 27.6   | 25.4   | 27.6   | 35.8   | 48.5   |
| 97.5°  | 302.1  | 173.0  | 110.4  | 78.3   | 58.9   | 47.7   | 41.0   | 40.3   | 41.0   | 47.7   | 58.9   |
| 100°   | 281.2  | 170.8  | 118.6  | 89.5   | 71.6   | 61.2   | 55.9   | 55.2   | 55.9   | 61.2   | 71.6   |
| 102.5° | 263.3  | 173.8  | 128.3  | 102.2  | 86.5   | 76.8   | 72.3   | 70.9   | 72.3   | 76.8   | 86.5   |
| 105°   | 256.6  | 179.8  | 139.5  | 116.4  | 102.2  | 93.2   | 88.8   | 86.5   | 88.8   | 93.2   | 102.2  |
| 107.5° | 255.1  | 189.4  | 153.6  | 132.0  | 118.6  | 109.6  | 105.2  | 102.9  | 105.2  | 109.6  | 118.6  |
| 110°   | 258.8  | 202.1  | 168.6  | 147.7  | 135.0  | 126.8  | 123.1  | 120.8  | 123.1  | 126.8  | 135.0  |





TEST NUMBER: P832304

CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 266.3 | 214.8 | 184.2 | 164.1 | 151.4 | 143.2 | 139.5 | 137.2 | 139.5 | 143.2 | 151.4 |
| 115°   | 274.5 | 229.0 | 200.6 | 180.5 | 167.8 | 160.4 | 155.9 | 152.9 | 155.9 | 160.4 | 167.8 |
| 117.5° | 284.9 | 243.9 | 215.6 | 196.9 | 182.7 | 176.0 | 172.3 | 168.6 | 172.3 | 176.0 | 182.7 |
| 120°   | 296.9 | 258.1 | 231.2 | 212.6 | 198.4 | 190.9 | 187.2 | 185.0 | 187.2 | 190.9 | 198.4 |
| 122.5° | 308.0 | 273.0 | 246.9 | 226.7 | 213.3 | 205.1 | 201.4 | 199.1 | 201.4 | 205.1 | 213.3 |
| 125°   | 320.0 | 287.2 | 261.0 | 240.9 | 226.7 | 218.5 | 214.1 | 212.6 | 214.1 | 218.5 | 226.7 |
| 127.5° | 329.7 | 299.8 | 274.5 | 254.3 | 238.7 | 230.5 | 225.2 | 223.0 | 225.2 | 230.5 | 238.7 |
| 130°   | 339.4 | 311.0 | 286.4 | 266.3 | 250.6 | 241.7 | 234.9 | 232.7 | 234.9 | 241.7 | 250.6 |
| 132.5° | 348.3 | 320.7 | 296.9 | 277.5 | 261.8 | 250.6 | 243.1 | 240.2 | 243.1 | 250.6 | 261.8 |
| 135°   | 355.8 | 330.4 | 307.3 | 287.2 | 271.5 | 260.3 | 252.1 | 249.1 | 252.1 | 260.3 | 271.5 |
| 137.5° | 361.7 | 337.1 | 314.8 | 296.1 | 280.4 | 268.5 | 260.3 | 257.3 | 260.3 | 268.5 | 280.4 |
| 140°   | 366.2 | 343.8 | 322.2 | 303.6 | 288.6 | 276.7 | 269.3 | 265.5 | 269.3 | 276.7 | 288.6 |
| 142.5° | 370.7 | 349.1 | 328.2 | 311.0 | 296.1 | 285.7 | 277.5 | 274.5 | 277.5 | 285.7 | 296.1 |
| 145°   | 373.7 | 353.5 | 334.1 | 317.0 | 304.3 | 293.1 | 286.4 | 284.2 | 286.4 | 293.1 | 304.3 |
| 147.5° | 375.9 | 357.3 | 339.4 | 324.4 | 311.8 | 302.1 | 295.4 | 293.9 | 295.4 | 302.1 | 311.8 |
| 150°   | 376.7 | 361.0 | 343.8 | 330.4 | 320.0 | 310.3 | 304.3 | 303.6 | 304.3 | 310.3 | 320.0 |
| 152.5° | 378.1 | 363.2 | 349.1 | 336.4 | 327.4 | 319.2 | 313.3 | 313.3 | 313.3 | 319.2 | 327.4 |
| 155°   | 378.1 | 366.2 | 353.5 | 343.1 | 334.9 | 327.4 | 323.0 | 323.0 | 323.0 | 327.4 | 334.9 |
| 157.5° | 378.9 | 367.7 | 357.3 | 349.1 | 341.6 | 334.9 | 331.2 | 330.4 | 331.2 | 334.9 | 341.6 |
| 160°   | 378.9 | 369.9 | 361.0 | 353.5 | 348.3 | 342.3 | 339.4 | 339.4 | 339.4 | 342.3 | 348.3 |
| 162.5° | 378.1 | 370.7 | 363.2 | 357.3 | 352.8 | 348.3 | 346.1 | 346.1 | 346.1 | 348.3 | 352.8 |
| 165°   | 376.7 | 371.4 | 365.5 | 360.2 | 357.3 | 353.5 | 352.0 | 352.8 | 352.0 | 353.5 | 357.3 |
| 167.5° | 375.9 | 371.4 | 367.0 | 363.2 | 361.0 | 358.0 | 357.3 | 358.0 | 357.3 | 358.0 | 361.0 |
| 170°   | 373.7 | 370.7 | 367.0 | 365.5 | 364.0 | 361.7 | 361.0 | 362.5 | 361.0 | 361.7 | 364.0 |
| 172.5° | 372.9 | 370.7 | 367.7 | 367.0 | 366.2 | 364.7 | 364.7 | 365.5 | 364.7 | 364.7 | 366.2 |
| 175°   | 371.4 | 369.9 | 368.5 | 367.7 | 367.7 | 366.2 | 367.0 | 367.7 | 367.0 | 366.2 | 367.7 |
| 177.5° | 370.7 | 369.2 | 368.5 | 368.5 | 368.5 | 367.7 | 368.5 | 369.2 | 368.5 | 367.7 | 368.5 |
| 180°   | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 |



TEST NUMBER: P832304

CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 | 1742.4 |
| 2.5°   | 1686.6 | 1666.3 | 1645.9 | 1631.3 | 1616.6 | 1598.4 | 1580.2 | 1579.5 | 1578.8 | 1565.2 | 1551.6 |
| 5°     | 1586.6 | 1551.3 | 1515.9 | 1481.2 | 1446.6 | 1412.0 | 1377.3 | 1369.5 | 1361.6 | 1349.8 | 1338.0 |
| 7.5°   | 1498.0 | 1441.6 | 1385.2 | 1340.9 | 1296.6 | 1261.9 | 1227.3 | 1203.7 | 1180.1 | 1161.9 | 1143.7 |
| 10°    | 1403.0 | 1333.0 | 1263.0 | 1209.4 | 1155.9 | 1118.3 | 1080.8 | 1053.7 | 1026.6 | 1013.7 | 1000.8 |
| 12.5°  | 1304.4 | 1228.4 | 1152.3 | 1099.8 | 1047.3 | 1002.3 | 957.3  | 932.6  | 908.0  | 890.1  | 872.2  |
| 15°    | 1213.7 | 1131.9 | 1050.1 | 994.4  | 938.7  | 896.5  | 854.4  | 829.7  | 805.1  | 787.2  | 769.4  |
| 17.5°  | 1125.8 | 1043.3 | 960.8  | 904.4  | 848.0  | 809.7  | 771.5  | 747.6  | 723.7  | 712.6  | 701.5  |
| 20°    | 1045.8 | 962.6  | 879.4  | 826.2  | 773.0  | 735.4  | 697.9  | 685.1  | 672.2  | 661.9  | 651.5  |
| 22.5°  | 966.5  | 886.5  | 806.5  | 755.4  | 704.4  | 677.2  | 650.1  | 639.7  | 629.4  | 621.5  | 613.6  |
| 25°    | 900.1  | 820.5  | 740.8  | 696.2  | 651.5  | 630.4  | 609.4  | 602.6  | 595.8  | 587.9  | 580.1  |
| 27.5°  | 833.0  | 757.2  | 681.5  | 645.8  | 610.1  | 592.9  | 575.8  | 567.2  | 558.6  | 552.2  | 545.8  |
| 30°    | 773.7  | 703.7  | 633.6  | 604.0  | 574.4  | 559.4  | 544.4  | 535.1  | 525.8  | 519.7  | 513.6  |
| 32.5°  | 716.5  | 654.4  | 592.2  | 566.9  | 541.5  | 526.8  | 512.2  | 503.3  | 494.3  | 487.2  | 480.1  |
| 35°    | 663.7  | 609.7  | 555.8  | 532.6  | 509.3  | 494.7  | 480.1  | 471.1  | 462.2  | 455.1  | 447.9  |
| 37.5°  | 617.2  | 568.3  | 519.3  | 497.6  | 475.8  | 462.9  | 450.1  | 440.8  | 431.5  | 424.0  | 416.5  |
| 40°    | 573.6  | 530.4  | 487.2  | 466.1  | 445.1  | 431.1  | 417.2  | 409.0  | 400.8  | 394.0  | 387.2  |
| 42.5°  | 535.1  | 495.4  | 455.8  | 435.1  | 414.3  | 401.1  | 387.9  | 378.3  | 368.6  | 364.7  | 360.8  |
| 45°    | 494.3  | 459.3  | 424.3  | 404.3  | 384.3  | 370.4  | 356.5  | 348.3  | 340.0  | 336.5  | 332.9  |
| 47.5°  | 458.6  | 426.1  | 393.6  | 374.0  | 354.3  | 341.8  | 329.3  | 322.9  | 316.5  | 311.5  | 306.5  |
| 50°    | 423.6  | 392.2  | 360.8  | 341.8  | 322.9  | 312.2  | 301.5  | 293.6  | 285.7  | 282.2  | 278.6  |
| 52.5°  | 390.0  | 361.5  | 332.9  | 313.6  | 294.3  | 284.0  | 273.6  | 266.8  | 260.0  | 252.5  | 245.0  |
| 55°    | 352.2  | 327.2  | 302.2  | 285.0  | 267.9  | 257.2  | 246.5  | 238.6  | 230.7  | 222.9  | 215.0  |
| 57.5°  | 320.8  | 296.1  | 271.5  | 256.1  | 240.7  | 230.4  | 220.0  | 211.5  | 202.9  | 196.5  | 190.0  |
| 60°    | 286.5  | 265.0  | 243.6  | 228.6  | 213.6  | 203.6  | 193.6  | 185.4  | 177.2  | 173.9  | 170.7  |
| 62.5°  | 254.3  | 234.3  | 214.3  | 201.1  | 187.9  | 178.2  | 168.6  | 163.2  | 157.9  | 155.7  | 153.6  |
| 65°    | 221.5  | 204.3  | 187.2  | 175.0  | 162.9  | 154.7  | 146.4  | 143.9  | 141.4  | 139.7  | 137.9  |
| 67.5°  | 190.7  | 176.1  | 161.4  | 150.7  | 140.0  | 134.3  | 128.6  | 125.7  | 122.9  | 120.7  | 118.6  |
| 70°    | 162.9  | 150.0  | 137.2  | 127.9  | 118.6  | 113.2  | 107.9  | 105.4  | 102.9  | 98.9   | 95.0   |
| 72.5°  | 132.9  | 122.9  | 112.9  | 105.7  | 98.6   | 93.9   | 89.3   | 84.3   | 79.3   | 75.7   | 72.2   |
| 75°    | 110.0  | 100.0  | 90.0   | 83.2   | 76.4   | 71.1   | 65.7   | 63.9   | 62.2   | 61.1   | 60.0   |
| 77.5°  | 84.3   | 75.7   | 67.2   | 61.8   | 56.4   | 53.9   | 51.4   | 50.4   | 49.3   | 48.9   | 48.6   |
| 80°    | 60.7   | 53.6   | 46.4   | 43.6   | 40.7   | 40.0   | 39.3   | 38.6   | 37.9   | 37.5   | 37.1   |
| 82.5°  | 37.9   | 34.3   | 30.7   | 30.0   | 29.3   | 28.9   | 28.6   | 28.2   | 27.9   | 27.5   | 27.1   |
| 85°    | 22.1   | 20.7   | 19.3   | 18.9   | 18.6   | 18.2   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   |
| 87.5°  | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 8.9    | 8.6    |
| 90°    | 8.2    | 9.7    | 11.9   | 14.2   | 16.4   | 18.6   | 17.9   | 18.6   | 19.4   | 20.1   | 21.6   |
| 92.5°  | 38.0   | 51.5   | 75.3   | 114.9  | 153.6  | 138.7  | 103.7  | 73.8   | 57.4   | 50.0   | 44.8   |
| 95°    | 67.9   | 97.0   | 160.4  | 271.5  | 393.8  | 442.3  | 358.8  | 268.5  | 182.0  | 142.5  | 115.6  |
| 97.5°  | 78.3   | 110.4  | 173.0  | 302.1  | 507.9  | 680.2  | 703.3  | 616.8  | 465.4  | 367.0  | 281.9  |
| 100°   | 89.5   | 118.6  | 170.8  | 281.2  | 477.3  | 706.3  | 853.3  | 879.4  | 819.0  | 731.7  | 625.8  |
| 102.5° | 102.2  | 128.3  | 173.8  | 263.3  | 432.6  | 657.8  | 860.7  | 966.6  | 979.3  | 937.5  | 880.1  |
| 105°   | 116.4  | 139.5  | 179.8  | 256.6  | 397.5  | 599.7  | 813.7  | 969.6  | 1044.2 | 1058.4 | 1039.0 |
| 107.5° | 132.0  | 153.6  | 189.4  | 255.1  | 372.2  | 548.2  | 746.6  | 924.9  | 1042.0 | 1100.1 | 1120.3 |
| 110°   | 147.7  | 168.6  | 202.1  | 258.8  | 358.8  | 505.7  | 684.0  | 854.8  | 992.0  | 1086.0 | 1138.2 |



TEST NUMBER: P832304

CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°   | 160°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 164.1 | 184.2 | 214.8 | 266.3 | 351.3 | 477.3 | 629.5 | 785.4 | 926.4 | 1034.5 | 1105.4 |
| 115°   | 180.5 | 200.6 | 229.0 | 274.5 | 350.6 | 458.7 | 587.7 | 725.7 | 855.5 | 965.1  | 1046.4 |
| 117.5° | 196.9 | 215.6 | 243.9 | 284.9 | 351.3 | 446.0 | 560.1 | 679.5 | 794.3 | 895.0  | 979.3  |
| 120°   | 212.6 | 231.2 | 258.1 | 296.9 | 354.3 | 437.8 | 539.3 | 644.4 | 745.1 | 834.6  | 909.9  |
| 122.5° | 226.7 | 246.9 | 273.0 | 308.0 | 359.5 | 432.6 | 522.1 | 616.8 | 705.6 | 786.9  | 855.5  |
| 125°   | 240.9 | 261.0 | 287.2 | 320.0 | 364.7 | 428.1 | 507.9 | 593.0 | 674.3 | 745.9  | 805.5  |
| 127.5° | 254.3 | 274.5 | 299.8 | 329.7 | 370.7 | 425.9 | 494.5 | 571.3 | 645.2 | 710.8  | 766.0  |
| 130°   | 266.3 | 286.4 | 311.0 | 339.4 | 376.7 | 423.6 | 484.1 | 551.2 | 618.3 | 678.7  | 729.4  |
| 132.5° | 277.5 | 296.9 | 320.7 | 348.3 | 381.1 | 422.9 | 474.4 | 532.5 | 593.0 | 648.1  | 695.9  |
| 135°   | 287.2 | 307.3 | 330.4 | 355.8 | 385.6 | 422.2 | 466.2 | 516.1 | 569.1 | 617.6  | 660.1  |
| 137.5° | 296.1 | 314.8 | 337.1 | 361.7 | 388.6 | 420.7 | 458.7 | 500.5 | 545.2 | 588.5  | 626.5  |
| 140°   | 303.6 | 322.2 | 343.8 | 366.2 | 391.6 | 419.9 | 452.0 | 487.0 | 525.1 | 560.9  | 593.0  |
| 142.5° | 311.0 | 328.2 | 349.1 | 370.7 | 393.8 | 418.4 | 446.0 | 474.4 | 505.7 | 535.5  | 562.4  |
| 145°   | 317.0 | 334.1 | 353.5 | 373.7 | 394.6 | 416.9 | 440.8 | 464.7 | 489.3 | 513.1  | 534.8  |
| 147.5° | 324.4 | 339.4 | 357.3 | 375.9 | 394.6 | 414.7 | 435.6 | 456.5 | 476.6 | 496.7  | 512.4  |
| 150°   | 330.4 | 343.8 | 361.0 | 376.7 | 394.6 | 411.7 | 430.4 | 447.5 | 464.7 | 480.3  | 494.5  |
| 152.5° | 336.4 | 349.1 | 363.2 | 378.1 | 392.3 | 408.0 | 424.4 | 439.3 | 453.5 | 466.9  | 478.1  |
| 155°   | 343.1 | 353.5 | 366.2 | 378.1 | 390.8 | 403.5 | 418.4 | 431.1 | 443.0 | 454.2  | 463.2  |
| 157.5° | 349.1 | 357.3 | 367.7 | 378.9 | 388.6 | 399.8 | 411.7 | 422.2 | 432.6 | 441.5  | 449.0  |
| 160°   | 353.5 | 361.0 | 369.9 | 378.9 | 387.1 | 395.3 | 405.0 | 414.7 | 422.9 | 430.4  | 435.6  |
| 162.5° | 357.3 | 363.2 | 370.7 | 378.1 | 384.1 | 390.8 | 398.3 | 405.7 | 412.5 | 419.2  | 423.6  |
| 165°   | 360.2 | 365.5 | 371.4 | 376.7 | 381.1 | 386.4 | 392.3 | 398.3 | 402.8 | 408.0  | 411.7  |
| 167.5° | 363.2 | 367.0 | 371.4 | 375.9 | 378.1 | 381.9 | 386.4 | 391.6 | 395.3 | 398.3  | 401.3  |
| 170°   | 365.5 | 367.0 | 370.7 | 373.7 | 375.2 | 377.4 | 381.1 | 384.9 | 387.1 | 390.1  | 391.6  |
| 172.5° | 367.0 | 367.7 | 370.7 | 372.9 | 372.9 | 373.7 | 375.9 | 378.9 | 380.4 | 382.6  | 383.4  |
| 175°   | 367.7 | 368.5 | 369.9 | 371.4 | 370.7 | 370.7 | 372.2 | 373.7 | 374.4 | 375.9  | 375.9  |
| 177.5° | 368.5 | 368.5 | 369.2 | 370.7 | 369.2 | 368.5 | 369.2 | 369.9 | 370.7 | 371.4  | 371.4  |
| 180°   | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5 | 368.5  | 368.5  |



TEST NUMBER: P832304

CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 1742.4 | 1742.4 | 1742.4 | 1742.4 |
| 2.5°   | 1548.0 | 1544.5 | 1543.0 | 1541.6 |
| 5°     | 1326.9 | 1315.9 | 1313.4 | 1310.9 |
| 7.5°   | 1139.1 | 1134.4 | 1119.1 | 1103.7 |
| 10°    | 986.5  | 972.3  | 965.8  | 959.4  |
| 12.5°  | 859.0  | 845.8  | 843.7  | 841.5  |
| 15°    | 760.1  | 750.8  | 747.6  | 744.4  |
| 17.5°  | 695.1  | 688.7  | 684.7  | 680.8  |
| 20°    | 646.9  | 642.2  | 639.4  | 636.5  |
| 22.5°  | 610.1  | 606.5  | 604.4  | 602.2  |
| 25°    | 574.7  | 569.4  | 567.6  | 565.8  |
| 27.5°  | 541.1  | 536.5  | 534.7  | 532.9  |
| 30°    | 509.7  | 505.8  | 503.3  | 500.8  |
| 32.5°  | 475.4  | 470.8  | 469.3  | 467.9  |
| 35°    | 445.1  | 442.2  | 440.8  | 439.3  |
| 37.5°  | 412.9  | 409.3  | 407.2  | 405.0  |
| 40°    | 385.4  | 383.6  | 382.5  | 381.5  |
| 42.5°  | 357.5  | 354.3  | 354.0  | 353.6  |
| 45°    | 329.7  | 326.5  | 325.8  | 325.0  |
| 47.5°  | 303.6  | 300.8  | 300.4  | 300.0  |
| 50°    | 274.7  | 270.7  | 267.9  | 265.0  |
| 52.5°  | 241.5  | 237.9  | 235.4  | 232.9  |
| 55°    | 211.1  | 207.2  | 205.0  | 202.9  |
| 57.5°  | 188.2  | 186.5  | 185.4  | 184.3  |
| 60°    | 169.7  | 168.6  | 167.9  | 167.2  |
| 62.5°  | 152.5  | 151.4  | 151.4  | 151.4  |
| 65°    | 136.8  | 135.7  | 134.7  | 133.6  |
| 67.5°  | 116.4  | 114.3  | 113.9  | 113.6  |
| 70°    | 91.8   | 88.6   | 88.2   | 87.9   |
| 72.5°  | 71.8   | 71.4   | 70.7   | 70.0   |
| 75°    | 59.3   | 58.6   | 58.6   | 58.6   |
| 77.5°  | 47.9   | 47.1   | 47.1   | 47.1   |
| 80°    | 36.8   | 36.4   | 36.8   | 37.1   |
| 82.5°  | 27.1   | 27.1   | 26.8   | 26.4   |
| 85°    | 17.5   | 17.1   | 17.1   | 17.1   |
| 87.5°  | 8.6    | 8.6    | 8.6    | 8.6    |
| 90°    | 20.9   | 21.6   | 22.4   | 21.6   |
| 92.5°  | 43.3   | 40.3   | 41.0   | 39.5   |
| 95°    | 101.4  | 94.7   | 89.5   | 86.5   |
| 97.5°  | 232.0  | 203.6  | 185.7  | 177.5  |
| 100°   | 550.4  | 496.0  | 466.9  | 467.7  |
| 102.5° | 825.7  | 785.4  | 762.3  | 740.6  |
| 105°   | 1004.7 | 976.3  | 952.5  | 948.7  |
| 107.5° | 1115.8 | 1102.4 | 1092.7 | 1084.5 |
| 110°   | 1159.1 | 1165.0 | 1163.5 | 1162.0 |



TEST NUMBER: P832304

CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 1147.9 | 1169.5 | 1177.0 | 1177.7 |
| 115°   | 1102.4 | 1135.2 | 1150.1 | 1153.8 |
| 117.5° | 1037.5 | 1074.0 | 1096.4 | 1101.6 |
| 120°   | 968.9  | 1010.6 | 1028.5 | 1033.0 |
| 122.5° | 906.2  | 942.8  | 962.9  | 968.9  |
| 125°   | 853.3  | 886.1  | 904.7  | 909.9  |
| 127.5° | 809.3  | 837.6  | 854.8  | 859.2  |
| 130°   | 769.0  | 795.8  | 811.5  | 817.5  |
| 132.5° | 732.4  | 759.3  | 772.7  | 776.4  |
| 135°   | 696.6  | 719.0  | 732.4  | 737.7  |
| 137.5° | 657.8  | 681.0  | 692.2  | 696.6  |
| 140°   | 621.3  | 642.2  | 654.1  | 653.4  |
| 142.5° | 585.5  | 603.4  | 613.8  | 613.1  |
| 145°   | 553.4  | 569.1  | 575.1  | 576.5  |
| 147.5° | 527.3  | 538.5  | 544.5  | 545.2  |
| 150°   | 505.7  | 513.9  | 518.4  | 518.4  |
| 152.5° | 486.3  | 493.8  | 496.0  | 496.0  |
| 155°   | 469.9  | 475.9  | 477.3  | 478.1  |
| 157.5° | 455.0  | 459.4  | 460.9  | 460.9  |
| 160°   | 440.8  | 445.3  | 445.3  | 444.5  |
| 162.5° | 426.6  | 430.4  | 430.4  | 429.6  |
| 165°   | 414.7  | 417.7  | 416.9  | 416.9  |
| 167.5° | 402.8  | 405.0  | 404.3  | 404.3  |
| 170°   | 392.3  | 393.8  | 393.1  | 393.1  |
| 172.5° | 383.4  | 384.9  | 383.4  | 382.6  |
| 175°   | 375.9  | 376.7  | 375.9  | 375.2  |
| 177.5° | 370.7  | 371.4  | 369.9  | 369.9  |
| 180°   | 368.5  | 368.5  | 368.5  | 368.5  |



TEST NUMBER: P832304

CATALOG NUMBER: S123RDIP-S560D805U950-4F0-1E-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 | 10.49            | 11.26 | 11.50 | 12.27 | 13.61 | 15.15          | 15.93 | 16.16 | 16.94 | 18.28 |
|                 | 3H   | 11.71            | 12.40 | 12.72 | 13.42 | 14.78 | 16.65          | 17.34 | 17.67 | 18.36 | 19.72 |
|                 | 4H   | 12.09            | 12.74 | 13.12 | 13.76 | 15.13 | 17.14          | 17.79 | 18.17 | 18.81 | 20.18 |
|                 | 6H   | 12.36            | 12.97 | 13.40 | 13.99 | 15.37 | 17.45          | 18.05 | 18.48 | 19.07 | 20.45 |
|                 | 8H   | 12.45            | 13.02 | 13.49 | 14.06 | 15.44 | 17.52          | 18.09 | 18.57 | 19.14 | 20.51 |
|                 | 12H  | 12.50            | 13.04 | 13.55 | 14.08 | 15.48 | 17.55          | 18.10 | 18.60 | 19.13 | 20.53 |
| 4H              | 2H   | 11.21            | 11.86 | 12.24 | 12.88 | 14.25 | 15.14          | 15.80 | 16.18 | 16.82 | 18.18 |
|                 | 3H   | 12.57            | 13.11 | 13.61 | 14.16 | 15.54 | 16.80          | 17.34 | 17.84 | 18.39 | 19.77 |
|                 | 4H   | 13.02            | 13.52 | 14.07 | 14.56 | 15.97 | 17.40          | 17.90 | 18.45 | 18.94 | 20.34 |
|                 | 6H   | 13.39            | 13.82 | 14.45 | 14.88 | 16.28 | 17.84          | 18.26 | 18.89 | 19.33 | 20.72 |
|                 | 8H   | 13.51            | 13.91 | 14.57 | 14.97 | 16.38 | 17.97          | 18.36 | 19.02 | 19.42 | 20.83 |
|                 | 12H  | 13.59            | 13.95 | 14.66 | 15.02 | 16.43 | 18.02          | 18.38 | 19.10 | 19.45 | 20.87 |
| 8H              | 4H   | 13.33            | 13.73 | 14.39 | 14.79 | 16.20 | 17.36          | 17.76 | 18.42 | 18.82 | 20.23 |
|                 | 6H   | 13.80            | 14.12 | 14.88 | 15.22 | 16.63 | 17.86          | 18.19 | 18.94 | 19.28 | 20.69 |
|                 | 8H   | 13.99            | 14.28 | 15.08 | 15.36 | 16.79 | 18.04          | 18.33 | 19.13 | 19.41 | 20.84 |
|                 | 12H  | 14.13            | 14.38 | 15.22 | 15.46 | 16.93 | 18.16          | 18.41 | 19.25 | 19.49 | 20.96 |
| 12H             | 4H   | 13.34            | 13.70 | 14.42 | 14.77 | 16.19 | 17.31          | 17.67 | 18.39 | 18.74 | 20.16 |
|                 | 6H   | 13.85            | 14.14 | 14.94 | 15.22 | 16.65 | 17.83          | 18.12 | 18.92 | 19.20 | 20.63 |
|                 | 8H   | 14.07            | 14.32 | 15.16 | 15.40 | 16.87 | 18.02          | 18.28 | 19.12 | 19.35 | 20.82 |