

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: P832215

Luminaire Tested: S123RDIP-S560D1195U935-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832215
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-S560D1195U935-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

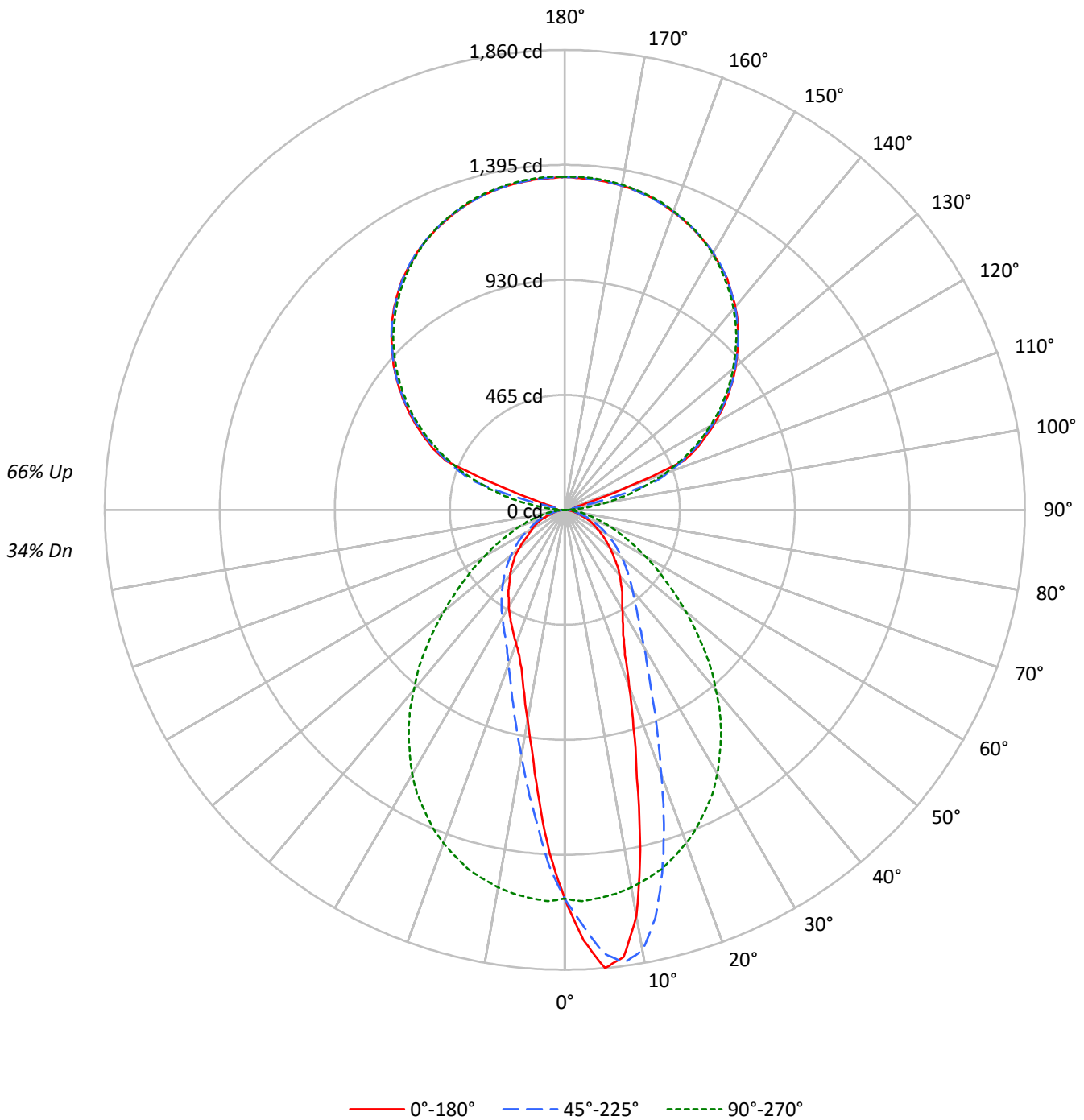
Lumens per Lamp: N/A
Luminaire Lumens: 6192.1 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.6
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: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 | | | | |
| 1 | 95 | 91 | 87 | 84 | 85 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 50 | 48 | 37 | 36 | 36 | 29 | | | | |
| 2 | 87 | 80 | 74 | 69 | 78 | 72 | 68 | 63 | 58 | 55 | 52 | 45 | 43 | 41 | 33 | 32 | 31 | 26 | | | | |
| 3 | 79 | 71 | 64 | 58 | 71 | 64 | 58 | 54 | 52 | 48 | 44 | 41 | 38 | 36 | 30 | 28 | 27 | 22 | | | | |
| 4 | 73 | 63 | 56 | 50 | 66 | 57 | 51 | 46 | 47 | 42 | 38 | 37 | 34 | 31 | 27 | 25 | 24 | 20 | | | | |
| 5 | 67 | 56 | 49 | 43 | 60 | 51 | 45 | 40 | 42 | 37 | 34 | 33 | 30 | 27 | 25 | 23 | 21 | 18 | | | | |
| 6 | 62 | 51 | 43 | 38 | 56 | 46 | 40 | 35 | 38 | 33 | 30 | 30 | 27 | 24 | 23 | 21 | 19 | 16 | | | | |
| 7 | 57 | 46 | 38 | 33 | 52 | 42 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 22 | 21 | 19 | 17 | 14 | | | | |
| 8 | 53 | 42 | 35 | 30 | 48 | 38 | 32 | 28 | 32 | 27 | 24 | 25 | 22 | 20 | 20 | 17 | 16 | 13 | | | | |
| 9 | 50 | 38 | 31 | 26 | 45 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 | 12 | | | | |
| 10 | 47 | 35 | 28 | 24 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 16926 | 16926 | 16926 | 16926 | 16926 |
| 5° | 20097 | 19457 | 17033 | 13769 | 12783 |
| 10° | 18209 | 19762 | 16948 | 11032 | 9464 |
| 15° | 12538 | 16945 | 16769 | 9016 | 7486 |
| 20° | 8722 | 13046 | 16432 | 7602 | 6581 |
| 25° | 6646 | 9943 | 15942 | 6758 | 6064 |
| 30° | 5786 | 7950 | 15330 | 6274 | 5618 |
| 35° | 5311 | 6706 | 14462 | 5867 | 5210 |
| 40° | 4846 | 5989 | 13326 | 5467 | 4838 |
| 45° | 4376 | 5477 | 12102 | 5089 | 4466 |
| 50° | 3974 | 5052 | 10655 | 4717 | 4006 |
| 55° | 3594 | 4641 | 9269 | 4356 | 3436 |
| 60° | 3221 | 4219 | 8049 | 3955 | 3249 |
| 65° | 2972 | 3744 | 6930 | 3556 | 3072 |
| 70° | 2414 | 3235 | 6046 | 3216 | 2496 |
| 75° | 2117 | 2574 | 5120 | 2670 | 2200 |
| 80° | 1915 | 2176 | 4197 | 2238 | 2077 |
| 85° | 1754 | 1914 | 3186 | 2025 | 1914 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 12769 cd/sqm



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.3 | 2.3 |
| 10°-20° | 331.7 | 5.4 |
| 20°-30° | 380.5 | 6.1 |
| 30°-40° | 375.1 | 6.1 |
| 40°-50° | 330.8 | 5.3 |
| 50°-60° | 254.5 | 4.1 |
| 60°-70° | 167.3 | 2.7 |
| 70°-80° | 81.3 | 1.3 |
| 80°-90° | 23.2 | 0.4 |
| 90°-100° | 47.5 | 0.8 |
| 100°-110° | 229.5 | 3.7 |
| 110°-120° | 562.5 | 9.1 |
| 120°-130° | 714.1 | 11.5 |
| 130°-140° | 762.9 | 12.3 |
| 140°-150° | 713.4 | 11.5 |
| 150°-160° | 575.4 | 9.3 |
| 160°-170° | 371.3 | 6.0 |
| 170°-180° | 128.0 | 2.1 |
| 0°-30° | 855.5 | 13.8 |
| 0°-40° | 1230.6 | 19.9 |
| 0°-60° | 1815.9 | 29.3 |
| 0°-90° | 2087.6 | 33.7 |
| 90°-120° | 839.4 | 13.6 |
| 90°-150° | 3029.8 | 48.9 |
| 90°-180° | 4105.0 | 66.3 |
| 0°-180° | 6192.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1572 | 1572 | 1572 | 1572 | 1572 | |
| 5° | 1860 | 1801 | 1576 | 1274 | 1183 | 170 |
| 15° | 1125 | 1521 | 1505 | 809 | 672 | 318 |
| 25° | 560 | 837 | 1342 | 569 | 511 | 264 |
| 35° | 404 | 510 | 1101 | 446 | 396 | 252 |
| 45° | 288 | 360 | 795 | 334 | 293 | 223 |
| 55° | 192 | 247 | 494 | 232 | 183 | 172 |
| 65° | 117 | 147 | 272 | 140 | 121 | 114 |
| 75° | 51 | 62 | 123 | 64 | 53 | 55 |
| 85° | 14 | 16 | 26 | 16 | 16 | 15 |
| 90° | 30 | 24 | 1 | 24 | 30 | 14 |
| 95° | 38 | 31 | 61 | 31 | 38 | 32 |
| 105° | 44 | 219 | 298 | 219 | 44 | 92 |
| 115° | 588 | 574 | 559 | 574 | 588 | 553 |
| 125° | 804 | 800 | 788 | 800 | 804 | 719 |
| 135° | 991 | 991 | 981 | 991 | 991 | 765 |
| 145° | 1143 | 1141 | 1132 | 1141 | 1143 | 714 |
| 155° | 1245 | 1246 | 1247 | 1246 | 1245 | 574 |
| 165° | 1312 | 1311 | 1315 | 1311 | 1312 | 371 |
| 175° | 1341 | 1342 | 1346 | 1342 | 1341 | 128 |
| 180° | 1346 | 1346 | 1346 | 1346 | 1346 | |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 |
| 2.5° | 1742.7 | 1737.2 | 1731.7 | 1730.1 | 1728.5 | 1723.4 | 1718.2 | 1706.6 | 1695.0 | 1683.1 | 1671.1 |
| 5° | 1860.0 | 1860.7 | 1861.3 | 1859.7 | 1858.1 | 1851.3 | 1844.6 | 1830.4 | 1816.2 | 1800.7 | 1785.3 |
| 7.5° | 1823.9 | 1834.3 | 1844.6 | 1846.5 | 1848.4 | 1853.6 | 1858.8 | 1855.5 | 1852.3 | 1846.5 | 1840.7 |
| 10° | 1666.0 | 1665.3 | 1664.7 | 1676.3 | 1687.9 | 1722.4 | 1756.9 | 1774.6 | 1792.3 | 1808.1 | 1823.9 |
| 12.5° | 1408.1 | 1409.1 | 1410.0 | 1448.1 | 1486.1 | 1518.7 | 1551.2 | 1596.4 | 1641.5 | 1690.2 | 1738.8 |
| 15° | 1125.1 | 1140.9 | 1156.6 | 1190.5 | 1224.3 | 1273.3 | 1322.3 | 1382.9 | 1443.6 | 1520.6 | 1597.6 |
| 17.5° | 923.9 | 930.7 | 937.4 | 970.0 | 1002.6 | 1049.0 | 1095.4 | 1164.1 | 1232.7 | 1332.0 | 1431.3 |
| 20° | 761.4 | 767.6 | 773.7 | 797.2 | 820.7 | 865.2 | 909.7 | 975.2 | 1040.6 | 1138.9 | 1237.2 |
| 22.5° | 635.7 | 647.6 | 659.6 | 675.4 | 691.2 | 723.4 | 755.6 | 822.4 | 889.1 | 978.7 | 1068.3 |
| 25° | 559.6 | 565.1 | 570.6 | 584.1 | 597.7 | 628.6 | 659.6 | 703.7 | 747.9 | 837.2 | 926.5 |
| 27.5° | 508.0 | 509.7 | 511.3 | 521.3 | 531.3 | 551.2 | 571.2 | 612.2 | 653.1 | 726.6 | 800.1 |
| 30° | 465.5 | 468.4 | 471.3 | 479.0 | 486.8 | 501.3 | 515.8 | 544.8 | 573.8 | 639.6 | 705.3 |
| 32.5° | 432.6 | 434.2 | 435.8 | 442.3 | 448.7 | 459.4 | 470.0 | 492.9 | 515.8 | 566.1 | 616.4 |
| 35° | 404.2 | 404.6 | 404.9 | 409.7 | 414.6 | 424.9 | 435.2 | 454.2 | 473.2 | 510.3 | 547.4 |
| 37.5° | 372.0 | 374.3 | 376.5 | 380.1 | 383.6 | 392.6 | 401.7 | 417.1 | 432.6 | 463.2 | 493.9 |
| 40° | 344.9 | 346.9 | 348.8 | 353.0 | 357.2 | 364.3 | 371.4 | 385.5 | 399.7 | 426.2 | 452.6 |
| 42.5° | 317.9 | 319.1 | 320.4 | 324.6 | 328.8 | 337.5 | 346.2 | 357.5 | 368.8 | 390.7 | 412.6 |
| 45° | 287.5 | 290.8 | 294.0 | 298.5 | 303.0 | 310.4 | 317.9 | 329.5 | 341.1 | 359.8 | 378.5 |
| 47.5° | 262.4 | 264.0 | 265.6 | 269.5 | 273.4 | 282.4 | 291.4 | 301.7 | 312.0 | 329.5 | 346.9 |
| 50° | 237.3 | 237.9 | 238.6 | 242.1 | 245.6 | 253.7 | 261.8 | 273.7 | 285.6 | 301.7 | 317.9 |
| 52.5° | 213.4 | 215.0 | 216.6 | 220.2 | 223.7 | 229.2 | 234.7 | 246.9 | 259.2 | 275.0 | 290.8 |
| 55° | 191.5 | 192.5 | 193.4 | 196.0 | 198.6 | 205.0 | 211.5 | 222.1 | 232.7 | 247.3 | 261.8 |
| 57.5° | 170.9 | 172.1 | 173.4 | 175.4 | 177.3 | 183.1 | 188.9 | 198.3 | 207.6 | 222.1 | 236.6 |
| 60° | 149.6 | 151.2 | 152.8 | 155.1 | 157.3 | 161.8 | 166.3 | 174.7 | 183.1 | 196.0 | 208.9 |
| 62.5° | 134.1 | 134.4 | 134.7 | 136.7 | 138.6 | 141.8 | 145.1 | 151.8 | 158.6 | 171.5 | 184.4 |
| 65° | 116.7 | 117.7 | 118.6 | 119.6 | 120.6 | 123.1 | 125.7 | 131.5 | 137.3 | 147.0 | 156.7 |
| 67.5° | 98.6 | 99.6 | 100.6 | 102.2 | 103.8 | 106.1 | 108.3 | 112.2 | 116.1 | 125.1 | 134.1 |
| 70° | 76.7 | 76.7 | 76.7 | 79.3 | 81.9 | 85.7 | 89.6 | 92.5 | 95.4 | 102.8 | 110.2 |
| 72.5° | 62.5 | 62.9 | 63.2 | 63.5 | 63.8 | 66.1 | 68.3 | 73.2 | 78.0 | 82.5 | 87.0 |
| 75° | 50.9 | 51.3 | 51.6 | 51.9 | 52.2 | 52.9 | 53.5 | 55.1 | 56.7 | 61.9 | 67.1 |
| 77.5° | 40.6 | 40.9 | 41.3 | 41.6 | 41.9 | 42.6 | 43.2 | 43.8 | 44.5 | 46.4 | 48.4 |
| 80° | 30.9 | 31.3 | 31.6 | 31.9 | 32.2 | 32.6 | 32.9 | 33.5 | 34.2 | 35.1 | 36.1 |
| 82.5° | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 23.2 | 23.9 | 23.9 | 23.9 | 24.5 | 25.1 |
| 85° | 14.2 | 14.2 | 14.2 | 14.5 | 14.8 | 14.8 | 14.8 | 15.2 | 15.5 | 15.5 | 15.5 |
| 87.5° | 6.4 | 6.1 | 5.8 | 6.1 | 6.4 | 6.4 | 6.4 | 6.8 | 7.1 | 7.1 | 7.1 |
| 90° | 30.0 | 29.6 | 29.1 | 28.7 | 28.2 | 27.6 | 26.7 | 25.8 | 24.9 | 24.0 | 21.1 |
| 92.5° | 34.0 | 33.8 | 33.6 | 33.3 | 33.1 | 32.2 | 30.7 | 29.1 | 27.6 | 26.0 | 24.0 |
| 95° | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 37.2 | 35.7 | 34.1 | 32.6 | 31.0 | 28.6 |
| 97.5° | 41.0 | 40.8 | 40.6 | 40.3 | 40.1 | 39.1 | 37.3 | 35.6 | 33.8 | 32.0 | 43.3 |
| 100° | 42.0 | 41.8 | 41.6 | 41.3 | 41.1 | 40.1 | 38.3 | 36.6 | 34.8 | 33.0 | 67.7 |
| 102.5° | 43.0 | 42.6 | 42.1 | 41.7 | 41.2 | 44.7 | 52.0 | 59.4 | 66.7 | 74.0 | 112.7 |
| 105° | 44.0 | 43.6 | 43.1 | 42.7 | 42.2 | 61.7 | 101.0 | 140.4 | 179.7 | 219.1 | 239.1 |
| 107.5° | 104.0 | 133.2 | 162.3 | 191.4 | 220.5 | 252.2 | 286.4 | 320.7 | 354.9 | 389.1 | 385.8 |
| 110° | 275.1 | 306.9 | 338.7 | 370.5 | 402.2 | 421.8 | 429.1 | 436.5 | 443.8 | 451.1 | 448.7 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 521.2 | 521.6 | 522.1 | 522.5 | 522.9 | 522.2 | 520.2 | 518.2 | 516.2 | 514.2 | 511.7 |
| 115° | 588.2 | 587.3 | 586.4 | 585.5 | 584.6 | 583.1 | 580.9 | 578.6 | 576.4 | 574.2 | 572.2 |
| 117.5° | 642.2 | 642.0 | 641.8 | 641.5 | 641.3 | 640.3 | 638.5 | 636.8 | 635.0 | 633.2 | 632.1 |
| 120° | 698.2 | 698.2 | 698.2 | 698.2 | 698.2 | 697.3 | 695.6 | 693.8 | 692.0 | 690.2 | 689.6 |
| 122.5° | 753.2 | 753.0 | 752.8 | 752.6 | 752.3 | 751.7 | 750.6 | 749.5 | 748.3 | 747.2 | 746.3 |
| 125° | 804.3 | 803.8 | 803.4 | 802.9 | 802.5 | 802.0 | 801.6 | 801.1 | 800.7 | 800.3 | 799.4 |
| 127.5° | 854.3 | 854.7 | 855.2 | 855.6 | 856.0 | 855.9 | 855.3 | 854.6 | 853.9 | 853.3 | 852.2 |
| 130° | 902.3 | 902.7 | 903.2 | 903.6 | 904.1 | 903.8 | 903.0 | 902.1 | 901.2 | 900.3 | 899.4 |
| 132.5° | 946.3 | 947.0 | 947.6 | 948.3 | 949.0 | 948.9 | 948.0 | 947.1 | 946.2 | 945.3 | 944.6 |
| 135° | 991.3 | 992.0 | 992.6 | 993.3 | 994.0 | 994.0 | 993.3 | 992.6 | 992.0 | 991.3 | 990.4 |
| 137.5° | 1034.3 | 1034.8 | 1035.2 | 1035.7 | 1036.1 | 1035.8 | 1034.7 | 1033.5 | 1032.4 | 1031.3 | 1030.9 |
| 140° | 1072.3 | 1072.8 | 1073.2 | 1073.7 | 1074.1 | 1073.9 | 1073.0 | 1072.1 | 1071.2 | 1070.3 | 1069.7 |
| 142.5° | 1107.3 | 1108.0 | 1108.7 | 1109.4 | 1110.0 | 1110.0 | 1109.4 | 1108.7 | 1108.0 | 1107.3 | 1106.7 |
| 145° | 1143.4 | 1143.4 | 1143.4 | 1143.4 | 1143.4 | 1143.1 | 1142.7 | 1142.2 | 1141.8 | 1141.4 | 1140.9 |
| 147.5° | 1169.4 | 1170.5 | 1171.6 | 1172.7 | 1173.8 | 1174.1 | 1173.7 | 1173.3 | 1172.8 | 1172.4 | 1171.9 |
| 150° | 1199.4 | 1200.0 | 1200.7 | 1201.4 | 1202.0 | 1202.2 | 1201.7 | 1201.3 | 1200.8 | 1200.4 | 1199.9 |
| 152.5° | 1223.4 | 1224.5 | 1225.6 | 1226.7 | 1227.8 | 1227.9 | 1227.1 | 1226.2 | 1225.3 | 1224.4 | 1224.2 |
| 155° | 1245.4 | 1246.7 | 1248.1 | 1249.4 | 1250.7 | 1250.8 | 1249.7 | 1248.6 | 1247.5 | 1246.4 | 1246.2 |
| 157.5° | 1264.4 | 1266.2 | 1268.0 | 1269.7 | 1271.5 | 1271.7 | 1270.4 | 1269.1 | 1267.7 | 1266.4 | 1266.6 |
| 160° | 1282.4 | 1284.0 | 1285.5 | 1287.1 | 1288.6 | 1288.7 | 1287.4 | 1286.1 | 1284.7 | 1283.4 | 1283.6 |
| 162.5° | 1299.4 | 1300.7 | 1302.1 | 1303.4 | 1304.7 | 1304.6 | 1303.1 | 1301.5 | 1300.0 | 1298.4 | 1298.6 |
| 165° | 1312.4 | 1314.0 | 1315.5 | 1317.1 | 1318.6 | 1318.5 | 1316.7 | 1315.0 | 1313.2 | 1311.4 | 1311.6 |
| 167.5° | 1322.4 | 1324.2 | 1326.0 | 1327.8 | 1329.5 | 1329.5 | 1327.8 | 1326.0 | 1324.2 | 1322.4 | 1322.4 |
| 170° | 1331.4 | 1333.2 | 1335.0 | 1336.8 | 1338.5 | 1338.5 | 1336.8 | 1335.0 | 1333.2 | 1331.4 | 1331.4 |
| 172.5° | 1336.4 | 1338.4 | 1340.4 | 1342.4 | 1344.4 | 1344.5 | 1342.8 | 1341.0 | 1339.2 | 1337.4 | 1337.2 |
| 175° | 1341.4 | 1343.2 | 1345.0 | 1346.8 | 1348.5 | 1348.6 | 1347.1 | 1345.5 | 1344.0 | 1342.4 | 1342.2 |
| 177.5° | 1342.4 | 1344.6 | 1346.9 | 1349.1 | 1351.3 | 1351.5 | 1349.8 | 1348.0 | 1346.2 | 1344.4 | 1344.2 |
| 180° | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 |
| 2.5° | 1669.5 | 1667.9 | 1652.4 | 1637.0 | 1621.8 | 1606.7 | 1595.4 | 1584.1 | 1565.1 | 1546.1 | 1534.1 |
| 5° | 1773.0 | 1760.8 | 1736.3 | 1711.8 | 1675.0 | 1638.3 | 1607.3 | 1576.4 | 1537.0 | 1497.7 | 1464.8 |
| 7.5° | 1830.7 | 1820.7 | 1791.1 | 1761.4 | 1712.7 | 1664.0 | 1615.7 | 1567.3 | 1509.3 | 1451.3 | 1401.6 |
| 10° | 1832.3 | 1840.7 | 1816.2 | 1791.7 | 1736.9 | 1682.1 | 1616.3 | 1550.6 | 1472.6 | 1394.6 | 1330.4 |
| 12.5° | 1774.9 | 1811.0 | 1805.9 | 1800.7 | 1745.0 | 1689.2 | 1609.2 | 1529.3 | 1433.6 | 1337.8 | 1257.5 |
| 15° | 1667.6 | 1737.5 | 1758.2 | 1778.8 | 1732.7 | 1686.6 | 1595.7 | 1504.8 | 1392.3 | 1279.8 | 1187.6 |
| 17.5° | 1529.3 | 1627.3 | 1681.8 | 1736.3 | 1702.7 | 1669.2 | 1569.6 | 1470.0 | 1343.3 | 1216.6 | 1116.4 |
| 20° | 1365.5 | 1493.8 | 1579.3 | 1664.7 | 1652.4 | 1640.2 | 1537.4 | 1434.5 | 1297.8 | 1161.2 | 1052.5 |
| 22.5° | 1203.7 | 1339.1 | 1457.1 | 1575.1 | 1587.6 | 1600.2 | 1496.4 | 1392.6 | 1243.0 | 1093.5 | 982.9 |
| 25° | 1064.1 | 1201.8 | 1342.3 | 1482.9 | 1511.2 | 1539.6 | 1441.0 | 1342.3 | 1187.3 | 1032.2 | 922.3 |
| 27.5° | 931.0 | 1061.9 | 1216.6 | 1371.3 | 1422.9 | 1474.5 | 1384.2 | 1294.0 | 1132.5 | 971.0 | 861.4 |
| 30° | 822.4 | 939.4 | 1097.3 | 1255.3 | 1327.2 | 1399.1 | 1316.2 | 1233.4 | 1073.2 | 912.9 | 805.6 |
| 32.5° | 721.1 | 825.9 | 984.5 | 1143.1 | 1226.6 | 1310.1 | 1238.5 | 1167.0 | 1012.9 | 858.8 | 752.7 |
| 35° | 641.2 | 735.0 | 883.0 | 1030.9 | 1124.4 | 1217.9 | 1159.2 | 1100.6 | 950.0 | 799.5 | 699.2 |
| 37.5° | 572.5 | 651.2 | 790.1 | 929.1 | 1028.3 | 1127.6 | 1078.6 | 1029.6 | 888.1 | 746.6 | 651.8 |
| 40° | 515.8 | 579.0 | 708.2 | 837.5 | 934.9 | 1032.2 | 990.3 | 948.4 | 821.7 | 695.0 | 606.4 |
| 42.5° | 467.1 | 521.6 | 637.6 | 753.7 | 843.0 | 932.3 | 904.6 | 876.8 | 762.1 | 647.3 | 565.1 |
| 45° | 424.2 | 470.0 | 572.2 | 674.4 | 756.6 | 838.8 | 816.9 | 795.0 | 696.0 | 597.0 | 521.6 |
| 47.5° | 386.2 | 425.5 | 516.8 | 608.0 | 681.8 | 755.6 | 735.3 | 715.0 | 633.1 | 551.2 | 482.6 |
| 50° | 351.4 | 384.9 | 461.0 | 537.1 | 603.5 | 669.9 | 653.1 | 636.3 | 568.7 | 501.0 | 441.6 |
| 52.5° | 318.5 | 346.2 | 414.6 | 482.9 | 536.4 | 589.9 | 577.0 | 564.1 | 511.9 | 459.7 | 405.9 |
| 55° | 287.2 | 312.7 | 370.4 | 428.1 | 473.9 | 519.7 | 506.8 | 493.9 | 453.2 | 412.6 | 365.2 |
| 57.5° | 258.9 | 281.1 | 327.8 | 374.6 | 411.0 | 447.4 | 441.3 | 435.2 | 401.3 | 367.5 | 328.5 |
| 60° | 228.9 | 248.9 | 289.2 | 329.5 | 358.8 | 388.1 | 381.0 | 373.9 | 349.8 | 325.6 | 292.1 |
| 62.5° | 202.1 | 219.9 | 252.1 | 284.3 | 308.2 | 332.0 | 326.9 | 321.7 | 303.3 | 285.0 | 257.2 |
| 65° | 174.1 | 191.5 | 217.6 | 243.7 | 262.4 | 281.1 | 276.6 | 272.1 | 258.2 | 244.4 | 222.1 |
| 67.5° | 148.6 | 163.1 | 185.7 | 208.2 | 220.8 | 233.4 | 230.8 | 228.2 | 217.6 | 207.0 | 189.6 |
| 70° | 122.8 | 135.4 | 154.1 | 172.8 | 181.5 | 190.2 | 191.2 | 192.1 | 182.5 | 172.8 | 159.9 |
| 72.5° | 97.0 | 107.0 | 124.4 | 141.8 | 148.6 | 155.4 | 155.1 | 154.7 | 148.9 | 143.1 | 131.5 |
| 75° | 74.5 | 81.9 | 95.4 | 109.0 | 114.8 | 120.6 | 121.9 | 123.1 | 117.7 | 112.2 | 105.7 |
| 77.5° | 53.5 | 58.7 | 69.0 | 79.3 | 85.7 | 92.2 | 92.8 | 93.5 | 90.9 | 88.3 | 82.2 |
| 80° | 37.7 | 39.3 | 45.8 | 52.2 | 59.0 | 65.8 | 66.7 | 67.7 | 65.1 | 62.5 | 58.7 |
| 82.5° | 26.1 | 27.1 | 29.3 | 31.6 | 37.1 | 42.6 | 43.8 | 45.1 | 43.8 | 42.6 | 38.4 |
| 85° | 15.8 | 16.1 | 17.1 | 18.1 | 20.6 | 23.2 | 24.5 | 25.8 | 25.1 | 24.5 | 22.2 |
| 87.5° | 7.1 | 7.1 | 7.4 | 7.7 | 8.4 | 9.0 | 10.6 | 12.2 | 11.3 | 10.3 | 9.3 |
| 90° | 18.2 | 15.3 | 12.4 | 9.9 | 7.7 | 5.4 | 3.2 | 1.0 | 3.2 | 5.4 | 7.7 |
| 92.5° | 22.0 | 20.0 | 18.0 | 17.7 | 19.0 | 20.3 | 21.7 | 23.0 | 21.7 | 20.3 | 19.0 |
| 95° | 26.1 | 23.7 | 21.2 | 24.6 | 33.7 | 42.8 | 51.9 | 61.0 | 51.9 | 42.8 | 33.7 |
| 97.5° | 54.7 | 66.0 | 77.4 | 86.1 | 92.4 | 98.6 | 104.8 | 111.0 | 104.8 | 98.6 | 92.4 |
| 100° | 102.4 | 137.0 | 171.7 | 186.8 | 182.4 | 177.9 | 173.5 | 169.1 | 173.5 | 177.9 | 182.4 |
| 102.5° | 151.4 | 190.1 | 228.7 | 246.6 | 243.7 | 240.9 | 238.0 | 235.1 | 238.0 | 240.9 | 243.7 |
| 105° | 259.1 | 279.1 | 299.1 | 307.9 | 305.4 | 303.0 | 300.5 | 298.1 | 300.5 | 303.0 | 305.4 |
| 107.5° | 382.5 | 379.1 | 375.8 | 373.1 | 371.1 | 369.1 | 367.1 | 365.1 | 367.1 | 369.1 | 371.1 |
| 110° | 446.3 | 443.8 | 441.4 | 439.2 | 437.5 | 435.7 | 433.9 | 432.1 | 433.9 | 435.7 | 437.5 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 509.3 | 506.8 | 504.4 | 502.4 | 500.8 | 499.3 | 497.7 | 496.2 | 497.7 | 499.3 | 500.8 |
| 115° | 570.2 | 568.2 | 566.2 | 564.5 | 563.2 | 561.8 | 560.5 | 559.2 | 560.5 | 561.8 | 563.2 |
| 117.5° | 631.0 | 629.9 | 628.8 | 627.4 | 625.9 | 624.3 | 622.8 | 621.2 | 622.8 | 624.3 | 625.9 |
| 120° | 688.9 | 688.2 | 687.6 | 686.2 | 684.2 | 682.2 | 680.2 | 678.2 | 680.2 | 682.2 | 684.2 |
| 122.5° | 745.5 | 744.6 | 743.7 | 742.5 | 740.9 | 739.3 | 737.8 | 736.2 | 737.8 | 739.3 | 740.9 |
| 125° | 798.5 | 797.6 | 796.7 | 795.4 | 793.6 | 791.8 | 790.0 | 788.2 | 790.0 | 791.8 | 793.6 |
| 127.5° | 851.0 | 849.9 | 848.8 | 847.4 | 845.6 | 843.8 | 842.0 | 840.3 | 842.0 | 843.8 | 845.6 |
| 130° | 898.5 | 897.6 | 896.7 | 895.4 | 893.6 | 891.8 | 890.1 | 888.3 | 890.1 | 891.8 | 893.6 |
| 132.5° | 944.0 | 943.3 | 942.6 | 941.4 | 939.6 | 937.9 | 936.1 | 934.3 | 936.1 | 937.9 | 939.6 |
| 135° | 989.5 | 988.6 | 987.8 | 986.6 | 985.3 | 984.0 | 982.6 | 981.3 | 982.6 | 984.0 | 985.3 |
| 137.5° | 1030.4 | 1030.0 | 1029.5 | 1028.4 | 1026.7 | 1024.9 | 1023.1 | 1021.3 | 1023.1 | 1024.9 | 1026.7 |
| 140° | 1069.0 | 1068.3 | 1067.7 | 1066.7 | 1065.3 | 1064.0 | 1062.7 | 1061.3 | 1062.7 | 1064.0 | 1065.3 |
| 142.5° | 1106.0 | 1105.3 | 1104.7 | 1103.7 | 1102.3 | 1101.0 | 1099.7 | 1098.3 | 1099.7 | 1101.0 | 1102.3 |
| 145° | 1140.5 | 1140.0 | 1139.6 | 1138.6 | 1137.0 | 1135.5 | 1133.9 | 1132.4 | 1133.9 | 1135.5 | 1137.0 |
| 147.5° | 1171.5 | 1171.0 | 1170.6 | 1169.8 | 1168.7 | 1167.6 | 1166.5 | 1165.4 | 1166.5 | 1167.6 | 1168.7 |
| 150° | 1199.5 | 1199.0 | 1198.6 | 1198.0 | 1197.4 | 1196.7 | 1196.0 | 1195.4 | 1196.0 | 1196.7 | 1197.4 |
| 152.5° | 1223.9 | 1223.7 | 1223.5 | 1223.3 | 1223.1 | 1222.8 | 1222.6 | 1222.4 | 1222.6 | 1222.8 | 1223.1 |
| 155° | 1245.9 | 1245.7 | 1245.5 | 1245.6 | 1246.1 | 1246.5 | 1246.9 | 1247.4 | 1246.9 | 1246.5 | 1246.1 |
| 157.5° | 1266.8 | 1267.1 | 1267.3 | 1267.4 | 1267.4 | 1267.4 | 1267.4 | 1267.4 | 1267.4 | 1267.4 | 1267.4 |
| 160° | 1283.8 | 1284.1 | 1284.3 | 1284.5 | 1284.7 | 1285.0 | 1285.2 | 1285.4 | 1285.2 | 1285.0 | 1284.7 |
| 162.5° | 1298.9 | 1299.1 | 1299.3 | 1299.7 | 1300.4 | 1301.1 | 1301.7 | 1302.4 | 1301.7 | 1301.1 | 1300.4 |
| 165° | 1311.9 | 1312.1 | 1312.3 | 1312.7 | 1313.4 | 1314.1 | 1314.7 | 1315.4 | 1314.7 | 1314.1 | 1313.4 |
| 167.5° | 1322.4 | 1322.4 | 1322.4 | 1322.9 | 1323.8 | 1324.6 | 1325.5 | 1326.4 | 1325.5 | 1324.6 | 1323.8 |
| 170° | 1331.4 | 1331.4 | 1331.4 | 1331.9 | 1332.8 | 1333.6 | 1334.5 | 1335.4 | 1334.5 | 1333.6 | 1332.8 |
| 172.5° | 1337.0 | 1336.8 | 1336.5 | 1337.0 | 1338.1 | 1339.2 | 1340.3 | 1341.4 | 1340.3 | 1339.2 | 1338.1 |
| 175° | 1342.0 | 1341.8 | 1341.5 | 1342.0 | 1343.1 | 1344.2 | 1345.3 | 1346.4 | 1345.3 | 1344.2 | 1343.1 |
| 177.5° | 1344.0 | 1343.8 | 1343.5 | 1344.0 | 1345.1 | 1346.2 | 1347.3 | 1348.4 | 1347.3 | 1346.2 | 1345.1 |
| 180° | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 | 1572.5 |
| 2.5° | 1522.2 | 1503.8 | 1485.5 | 1472.2 | 1459.0 | 1442.6 | 1426.1 | 1425.5 | 1424.9 | 1412.6 | 1400.4 |
| 5° | 1431.9 | 1400.0 | 1368.1 | 1336.8 | 1305.6 | 1274.3 | 1243.0 | 1235.9 | 1228.9 | 1218.2 | 1207.6 |
| 7.5° | 1352.0 | 1301.1 | 1250.1 | 1210.2 | 1170.2 | 1138.9 | 1107.6 | 1086.4 | 1065.1 | 1048.7 | 1032.2 |
| 10° | 1266.3 | 1203.1 | 1139.9 | 1091.5 | 1043.2 | 1009.3 | 975.5 | 951.0 | 926.5 | 914.9 | 903.3 |
| 12.5° | 1177.3 | 1108.6 | 1039.9 | 992.6 | 945.2 | 904.6 | 863.9 | 841.7 | 819.5 | 803.3 | 787.2 |
| 15° | 1095.4 | 1021.6 | 947.8 | 897.5 | 847.2 | 809.1 | 771.1 | 748.9 | 726.6 | 710.5 | 694.4 |
| 17.5° | 1016.1 | 941.6 | 867.2 | 816.2 | 765.3 | 730.8 | 696.3 | 674.7 | 653.1 | 643.1 | 633.1 |
| 20° | 943.9 | 868.8 | 793.7 | 745.6 | 697.6 | 663.7 | 629.9 | 618.3 | 606.7 | 597.3 | 588.0 |
| 22.5° | 872.3 | 800.1 | 727.9 | 681.8 | 635.7 | 611.2 | 586.7 | 577.4 | 568.0 | 560.9 | 553.8 |
| 25° | 812.4 | 740.5 | 668.6 | 628.3 | 588.0 | 569.0 | 550.0 | 543.8 | 537.7 | 530.6 | 523.5 |
| 27.5° | 751.8 | 683.4 | 615.1 | 582.8 | 550.6 | 535.1 | 519.7 | 511.9 | 504.2 | 498.4 | 492.6 |
| 30° | 698.2 | 635.1 | 571.9 | 545.1 | 518.4 | 504.8 | 491.3 | 482.9 | 474.5 | 469.0 | 463.6 |
| 32.5° | 646.7 | 590.6 | 534.5 | 511.6 | 488.7 | 475.5 | 462.3 | 454.2 | 446.2 | 439.7 | 433.3 |
| 35° | 599.0 | 550.3 | 501.6 | 480.6 | 459.7 | 446.5 | 433.3 | 425.2 | 417.1 | 410.7 | 404.2 |
| 37.5° | 557.0 | 512.9 | 468.7 | 449.1 | 429.4 | 417.8 | 406.2 | 397.8 | 389.4 | 382.6 | 375.9 |
| 40° | 517.7 | 478.7 | 439.7 | 420.7 | 401.7 | 389.1 | 376.5 | 369.1 | 361.7 | 355.6 | 349.4 |
| 42.5° | 482.9 | 447.1 | 411.3 | 392.6 | 373.9 | 362.0 | 350.1 | 341.4 | 332.7 | 329.1 | 325.6 |
| 45° | 446.2 | 414.6 | 383.0 | 364.9 | 346.9 | 334.3 | 321.7 | 314.3 | 306.9 | 303.7 | 300.4 |
| 47.5° | 413.9 | 384.6 | 355.2 | 337.5 | 319.8 | 308.5 | 297.2 | 291.4 | 285.6 | 281.1 | 276.6 |
| 50° | 382.3 | 354.0 | 325.6 | 308.5 | 291.4 | 281.7 | 272.1 | 265.0 | 257.9 | 254.7 | 251.4 |
| 52.5° | 352.0 | 326.2 | 300.4 | 283.0 | 265.6 | 256.3 | 246.9 | 240.8 | 234.7 | 227.9 | 221.1 |
| 55° | 317.9 | 295.3 | 272.7 | 257.2 | 241.8 | 232.1 | 222.4 | 215.3 | 208.2 | 201.2 | 194.1 |
| 57.5° | 289.5 | 267.2 | 245.0 | 231.1 | 217.3 | 207.9 | 198.6 | 190.8 | 183.1 | 177.3 | 171.5 |
| 60° | 258.5 | 239.2 | 219.9 | 206.3 | 192.8 | 183.7 | 174.7 | 167.3 | 159.9 | 157.0 | 154.1 |
| 62.5° | 229.5 | 211.5 | 193.4 | 181.5 | 169.6 | 160.9 | 152.2 | 147.3 | 142.5 | 140.6 | 138.6 |
| 65° | 199.9 | 184.4 | 168.9 | 158.0 | 147.0 | 139.6 | 132.2 | 129.9 | 127.7 | 126.0 | 124.4 |
| 67.5° | 172.1 | 158.9 | 145.7 | 136.0 | 126.4 | 121.2 | 116.1 | 113.5 | 110.9 | 109.0 | 107.0 |
| 70° | 147.0 | 135.4 | 123.8 | 115.4 | 107.0 | 102.2 | 97.4 | 95.1 | 92.8 | 89.3 | 85.7 |
| 72.5° | 119.9 | 110.9 | 101.9 | 95.4 | 89.0 | 84.8 | 80.6 | 76.1 | 71.6 | 68.3 | 65.1 |
| 75° | 99.3 | 90.3 | 81.2 | 75.1 | 69.0 | 64.2 | 59.3 | 57.7 | 56.1 | 55.1 | 54.2 |
| 77.5° | 76.1 | 68.3 | 60.6 | 55.8 | 50.9 | 48.7 | 46.4 | 45.5 | 44.5 | 44.2 | 43.8 |
| 80° | 54.8 | 48.4 | 41.9 | 39.3 | 36.7 | 36.1 | 35.5 | 34.8 | 34.2 | 33.8 | 33.5 |
| 82.5° | 34.2 | 30.9 | 27.7 | 27.1 | 26.4 | 26.1 | 25.8 | 25.5 | 25.1 | 24.8 | 24.5 |
| 85° | 20.0 | 18.7 | 17.4 | 17.1 | 16.8 | 16.4 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.1 | 7.7 |
| 90° | 9.9 | 12.4 | 15.3 | 18.2 | 21.1 | 24.0 | 24.9 | 25.8 | 26.7 | 27.6 | 28.2 |
| 92.5° | 17.7 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 27.6 | 29.1 | 30.7 | 32.2 | 33.1 |
| 95° | 24.6 | 21.2 | 23.7 | 26.1 | 28.6 | 31.0 | 32.6 | 34.1 | 35.7 | 37.2 | 38.0 |
| 97.5° | 86.1 | 77.4 | 66.0 | 54.7 | 43.3 | 32.0 | 33.8 | 35.6 | 37.3 | 39.1 | 40.1 |
| 100° | 186.8 | 171.7 | 137.0 | 102.4 | 67.7 | 33.0 | 34.8 | 36.6 | 38.3 | 40.1 | 41.1 |
| 102.5° | 246.6 | 228.7 | 190.1 | 151.4 | 112.7 | 74.0 | 66.7 | 59.4 | 52.0 | 44.7 | 41.2 |
| 105° | 307.9 | 299.1 | 279.1 | 259.1 | 239.1 | 219.1 | 179.7 | 140.4 | 101.0 | 61.7 | 42.2 |
| 107.5° | 373.1 | 375.8 | 379.1 | 382.5 | 385.8 | 389.1 | 354.9 | 320.7 | 286.4 | 252.2 | 220.5 |
| 110° | 439.2 | 441.4 | 443.8 | 446.3 | 448.7 | 451.1 | 443.8 | 436.5 | 429.1 | 421.8 | 402.2 |

TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 502.4 | 504.4 | 506.8 | 509.3 | 511.7 | 514.2 | 516.2 | 518.2 | 520.2 | 522.2 | 522.9 |
| 115° | 564.5 | 566.2 | 568.2 | 570.2 | 572.2 | 574.2 | 576.4 | 578.6 | 580.9 | 583.1 | 584.6 |
| 117.5° | 627.4 | 628.8 | 629.9 | 631.0 | 632.1 | 633.2 | 635.0 | 636.8 | 638.5 | 640.3 | 641.3 |
| 120° | 686.2 | 687.6 | 688.2 | 688.9 | 689.6 | 690.2 | 692.0 | 693.8 | 695.6 | 697.3 | 698.2 |
| 122.5° | 742.5 | 743.7 | 744.6 | 745.5 | 746.3 | 747.2 | 748.3 | 749.5 | 750.6 | 751.7 | 752.3 |
| 125° | 795.4 | 796.7 | 797.6 | 798.5 | 799.4 | 800.3 | 800.7 | 801.1 | 801.6 | 802.0 | 802.5 |
| 127.5° | 847.4 | 848.8 | 849.9 | 851.0 | 852.2 | 853.3 | 853.9 | 854.6 | 855.3 | 855.9 | 856.0 |
| 130° | 895.4 | 896.7 | 897.6 | 898.5 | 899.4 | 900.3 | 901.2 | 902.1 | 903.0 | 903.8 | 904.1 |
| 132.5° | 941.4 | 942.6 | 943.3 | 944.0 | 944.6 | 945.3 | 946.2 | 947.1 | 948.0 | 948.9 | 949.0 |
| 135° | 986.6 | 987.8 | 988.6 | 989.5 | 990.4 | 991.3 | 992.0 | 992.6 | 993.3 | 994.0 | 994.0 |
| 137.5° | 1028.4 | 1029.5 | 1030.0 | 1030.4 | 1030.9 | 1031.3 | 1032.4 | 1033.5 | 1034.7 | 1035.8 | 1036.1 |
| 140° | 1066.7 | 1067.7 | 1068.3 | 1069.0 | 1069.7 | 1070.3 | 1071.2 | 1072.1 | 1073.0 | 1073.9 | 1074.1 |
| 142.5° | 1103.7 | 1104.7 | 1105.3 | 1106.0 | 1106.7 | 1107.3 | 1108.0 | 1108.7 | 1109.4 | 1110.0 | 1110.0 |
| 145° | 1138.6 | 1139.6 | 1140.0 | 1140.5 | 1140.9 | 1141.4 | 1141.8 | 1142.2 | 1142.7 | 1143.1 | 1143.4 |
| 147.5° | 1169.8 | 1170.6 | 1171.0 | 1171.5 | 1171.9 | 1172.4 | 1172.8 | 1173.3 | 1173.7 | 1174.1 | 1173.8 |
| 150° | 1198.0 | 1198.6 | 1199.0 | 1199.5 | 1199.9 | 1200.4 | 1200.8 | 1201.3 | 1201.7 | 1202.2 | 1202.0 |
| 152.5° | 1223.3 | 1223.5 | 1223.7 | 1223.9 | 1224.2 | 1224.4 | 1225.3 | 1226.2 | 1227.1 | 1227.9 | 1227.8 |
| 155° | 1245.6 | 1245.5 | 1245.7 | 1245.9 | 1246.2 | 1246.4 | 1247.5 | 1248.6 | 1249.7 | 1250.8 | 1250.7 |
| 157.5° | 1267.4 | 1267.3 | 1267.1 | 1266.8 | 1266.6 | 1266.4 | 1267.7 | 1269.1 | 1270.4 | 1271.7 | 1271.5 |
| 160° | 1284.5 | 1284.3 | 1284.1 | 1283.8 | 1283.6 | 1283.4 | 1284.7 | 1286.1 | 1287.4 | 1288.7 | 1288.6 |
| 162.5° | 1299.7 | 1299.3 | 1299.1 | 1298.9 | 1298.6 | 1298.4 | 1300.0 | 1301.5 | 1303.1 | 1304.6 | 1304.7 |
| 165° | 1312.7 | 1312.3 | 1312.1 | 1311.9 | 1311.6 | 1311.4 | 1313.2 | 1315.0 | 1316.7 | 1318.5 | 1318.6 |
| 167.5° | 1322.9 | 1322.4 | 1322.4 | 1322.4 | 1322.4 | 1322.4 | 1324.2 | 1326.0 | 1327.8 | 1329.5 | 1329.5 |
| 170° | 1331.9 | 1331.4 | 1331.4 | 1331.4 | 1331.4 | 1331.4 | 1333.2 | 1335.0 | 1336.8 | 1338.5 | 1338.5 |
| 172.5° | 1337.0 | 1336.5 | 1336.8 | 1337.0 | 1337.2 | 1337.4 | 1339.2 | 1341.0 | 1342.8 | 1344.5 | 1344.4 |
| 175° | 1342.0 | 1341.5 | 1341.8 | 1342.0 | 1342.2 | 1342.4 | 1344.0 | 1345.5 | 1347.1 | 1348.6 | 1348.5 |
| 177.5° | 1344.0 | 1343.5 | 1343.8 | 1344.0 | 1344.2 | 1344.4 | 1346.2 | 1348.0 | 1349.8 | 1351.5 | 1351.3 |
| 180° | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 | 1346.4 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 1572.5 | 1572.5 | 1572.5 | 1572.5 |
| 2.5° | 1397.1 | 1393.9 | 1392.6 | 1391.3 |
| 5° | 1197.6 | 1187.6 | 1185.3 | 1183.1 |
| 7.5° | 1028.0 | 1023.8 | 1010.0 | 996.1 |
| 10° | 890.4 | 877.5 | 871.7 | 865.9 |
| 12.5° | 775.3 | 763.4 | 761.4 | 759.5 |
| 15° | 686.0 | 677.6 | 674.7 | 671.8 |
| 17.5° | 627.3 | 621.5 | 618.0 | 614.4 |
| 20° | 583.8 | 579.6 | 577.0 | 574.5 |
| 22.5° | 550.6 | 547.4 | 545.4 | 543.5 |
| 25° | 518.7 | 513.8 | 512.2 | 510.6 |
| 27.5° | 488.4 | 484.2 | 482.6 | 481.0 |
| 30° | 460.0 | 456.5 | 454.2 | 452.0 |
| 32.5° | 429.1 | 424.9 | 423.6 | 422.3 |
| 35° | 401.7 | 399.1 | 397.8 | 396.5 |
| 37.5° | 372.7 | 369.4 | 367.5 | 365.6 |
| 40° | 347.8 | 346.2 | 345.3 | 344.3 |
| 42.5° | 322.7 | 319.8 | 319.5 | 319.1 |
| 45° | 297.5 | 294.6 | 294.0 | 293.4 |
| 47.5° | 274.0 | 271.4 | 271.1 | 270.8 |
| 50° | 247.9 | 244.4 | 241.8 | 239.2 |
| 52.5° | 217.9 | 214.7 | 212.4 | 210.2 |
| 55° | 190.5 | 187.0 | 185.0 | 183.1 |
| 57.5° | 169.9 | 168.3 | 167.3 | 166.3 |
| 60° | 153.1 | 152.2 | 151.5 | 150.9 |
| 62.5° | 137.6 | 136.7 | 136.7 | 136.7 |
| 65° | 123.5 | 122.5 | 121.5 | 120.6 |
| 67.5° | 105.1 | 103.2 | 102.8 | 102.5 |
| 70° | 82.8 | 79.9 | 79.6 | 79.3 |
| 72.5° | 64.8 | 64.5 | 63.8 | 63.2 |
| 75° | 53.5 | 52.9 | 52.9 | 52.9 |
| 77.5° | 43.2 | 42.6 | 42.6 | 42.6 |
| 80° | 33.2 | 32.9 | 33.2 | 33.5 |
| 82.5° | 24.5 | 24.5 | 24.2 | 23.9 |
| 85° | 15.8 | 15.5 | 15.5 | 15.5 |
| 87.5° | 7.7 | 7.7 | 7.7 | 7.7 |
| 90° | 28.7 | 29.1 | 29.6 | 30.0 |
| 92.5° | 33.3 | 33.6 | 33.8 | 34.0 |
| 95° | 38.0 | 38.0 | 38.0 | 38.0 |
| 97.5° | 40.3 | 40.6 | 40.8 | 41.0 |
| 100° | 41.3 | 41.6 | 41.8 | 42.0 |
| 102.5° | 41.7 | 42.1 | 42.6 | 43.0 |
| 105° | 42.7 | 43.1 | 43.6 | 44.0 |
| 107.5° | 191.4 | 162.3 | 133.2 | 104.0 |
| 110° | 370.5 | 338.7 | 306.9 | 275.1 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 522.5 | 522.1 | 521.6 | 521.2 |
| 115° | 585.5 | 586.4 | 587.3 | 588.2 |
| 117.5° | 641.5 | 641.8 | 642.0 | 642.2 |
| 120° | 698.2 | 698.2 | 698.2 | 698.2 |
| 122.5° | 752.6 | 752.8 | 753.0 | 753.2 |
| 125° | 802.9 | 803.4 | 803.8 | 804.3 |
| 127.5° | 855.6 | 855.2 | 854.7 | 854.3 |
| 130° | 903.6 | 903.2 | 902.7 | 902.3 |
| 132.5° | 948.3 | 947.6 | 947.0 | 946.3 |
| 135° | 993.3 | 992.6 | 992.0 | 991.3 |
| 137.5° | 1035.7 | 1035.2 | 1034.8 | 1034.3 |
| 140° | 1073.7 | 1073.2 | 1072.8 | 1072.3 |
| 142.5° | 1109.4 | 1108.7 | 1108.0 | 1107.3 |
| 145° | 1143.4 | 1143.4 | 1143.4 | 1143.4 |
| 147.5° | 1172.7 | 1171.6 | 1170.5 | 1169.4 |
| 150° | 1201.4 | 1200.7 | 1200.0 | 1199.4 |
| 152.5° | 1226.7 | 1225.6 | 1224.5 | 1223.4 |
| 155° | 1249.4 | 1248.1 | 1246.7 | 1245.4 |
| 157.5° | 1269.7 | 1268.0 | 1266.2 | 1264.4 |
| 160° | 1287.1 | 1285.5 | 1284.0 | 1282.4 |
| 162.5° | 1303.4 | 1302.1 | 1300.7 | 1299.4 |
| 165° | 1317.1 | 1315.5 | 1314.0 | 1312.4 |
| 167.5° | 1327.8 | 1326.0 | 1324.2 | 1322.4 |
| 170° | 1336.8 | 1335.0 | 1333.2 | 1331.4 |
| 172.5° | 1342.4 | 1340.4 | 1338.4 | 1336.4 |
| 175° | 1346.8 | 1345.0 | 1343.2 | 1341.4 |
| 177.5° | 1349.1 | 1346.9 | 1344.6 | 1342.4 |
| 180° | 1346.4 | 1346.4 | 1346.4 | 1346.4 |



TEST NUMBER: P832215

CATALOG NUMBER: S123RDIP-S560D1195U935-4F0-1E-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 | 8.82 | 9.52 | 9.91 | 10.60 | 12.09 | 13.48 | 14.18 | 14.58 | 15.27 | 16.76 |
| | 3H | 10.03 | 10.65 | 11.13 | 11.75 | 13.26 | 14.97 | 15.60 | 16.07 | 16.69 | 18.20 |
| | 4H | 10.41 | 11.00 | 11.52 | 12.09 | 13.61 | 15.45 | 16.05 | 16.57 | 17.14 | 18.66 |
| | 6H | 10.68 | 11.22 | 11.80 | 12.32 | 13.85 | 15.76 | 16.30 | 16.88 | 17.40 | 18.93 |
| | 8H | 10.76 | 11.28 | 11.89 | 12.39 | 13.91 | 15.84 | 16.35 | 16.96 | 17.47 | 18.99 |
| | 12H | 10.81 | 11.30 | 11.94 | 12.41 | 13.95 | 15.86 | 16.35 | 16.99 | 17.46 | 19.00 |
| 4H | 2H | 9.53 | 10.12 | 10.65 | 11.21 | 12.73 | 13.46 | 14.05 | 14.58 | 15.15 | 16.66 |
| | 3H | 10.88 | 11.38 | 12.01 | 12.50 | 14.02 | 15.11 | 15.60 | 16.23 | 16.72 | 18.25 |
| | 4H | 11.33 | 11.79 | 12.46 | 12.90 | 14.44 | 15.71 | 16.16 | 16.84 | 17.27 | 18.82 |
| | 6H | 11.69 | 12.08 | 12.83 | 13.22 | 14.75 | 16.14 | 16.53 | 17.28 | 17.66 | 19.20 |
| | 8H | 11.82 | 12.18 | 12.95 | 13.30 | 14.86 | 16.27 | 16.63 | 17.40 | 17.76 | 19.31 |
| | 12H | 11.89 | 12.21 | 13.04 | 13.35 | 14.91 | 16.33 | 16.65 | 17.48 | 17.79 | 19.35 |
| 8H | 4H | 11.64 | 12.00 | 12.77 | 13.13 | 14.68 | 15.67 | 16.03 | 16.80 | 17.16 | 18.71 |
| | 6H | 12.10 | 12.39 | 13.25 | 13.56 | 15.11 | 16.16 | 16.46 | 17.32 | 17.63 | 19.18 |
| | 8H | 12.29 | 12.55 | 13.45 | 13.70 | 15.27 | 16.35 | 16.60 | 17.51 | 17.75 | 19.32 |
| | 12H | 12.43 | 12.65 | 13.59 | 13.80 | 15.40 | 16.46 | 16.68 | 17.62 | 17.83 | 19.43 |
| 12H | 4H | 11.64 | 11.97 | 12.80 | 13.11 | 14.67 | 15.61 | 15.94 | 16.76 | 17.08 | 18.64 |
| | 6H | 12.16 | 12.42 | 13.32 | 13.56 | 15.13 | 16.13 | 16.39 | 17.30 | 17.54 | 19.11 |
| | 8H | 12.37 | 12.60 | 13.53 | 13.74 | 15.35 | 16.32 | 16.55 | 17.49 | 17.69 | 19.30 |