

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: P832244

Luminaire Tested: S123RDIP-S560D365U935-4F0-1E-UDD-G4

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832244
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-S560D365U935-4F0-1E-UDD-G4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: -

Summary

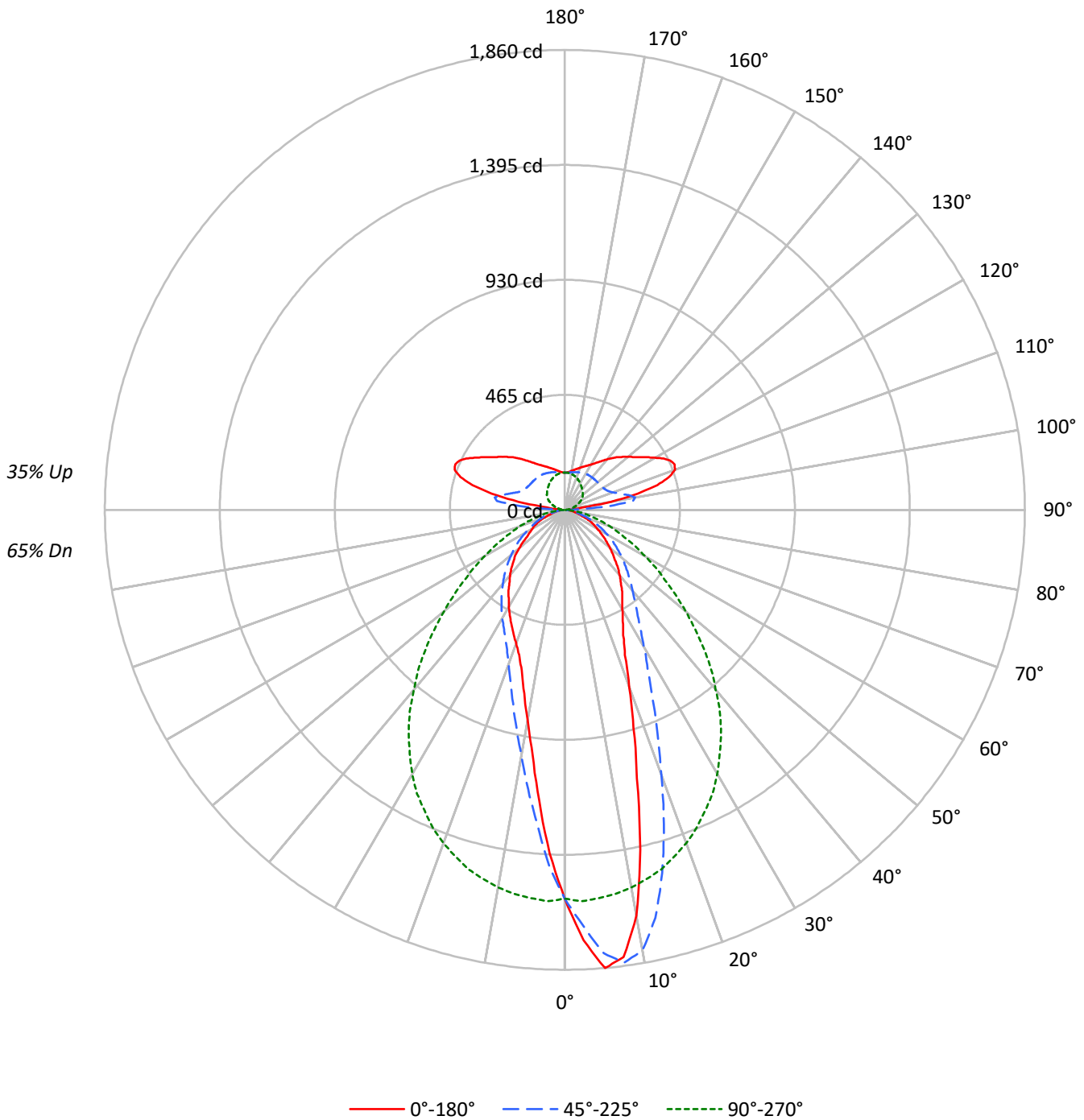
Lumens per Lamp: N/A
Luminaire Lumens: 3216.3 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.6
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: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

Luminous Intensity Polar Plot





TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 | | | | |
| 1 | 102 | 98 | 94 | 91 | 96 | 92 | 89 | 86 | 82 | 80 | 77 | 72 | 70 | 69 | 63 | 62 | 61 | 57 | | | | |
| 2 | 94 | 87 | 81 | 76 | 88 | 82 | 77 | 73 | 73 | 69 | 66 | 65 | 62 | 59 | 57 | 55 | 53 | 49 | | | | |
| 3 | 86 | 78 | 71 | 65 | 81 | 73 | 67 | 62 | 66 | 61 | 57 | 58 | 55 | 52 | 52 | 49 | 47 | 43 | | | | |
| 4 | 80 | 70 | 62 | 56 | 75 | 66 | 59 | 54 | 59 | 54 | 50 | 53 | 49 | 45 | 47 | 44 | 41 | 38 | | | | |
| 5 | 74 | 63 | 55 | 49 | 69 | 60 | 53 | 48 | 54 | 48 | 44 | 48 | 44 | 40 | 43 | 40 | 37 | 34 | | | | |
| 6 | 69 | 57 | 49 | 44 | 65 | 54 | 47 | 42 | 49 | 43 | 39 | 44 | 40 | 36 | 40 | 36 | 33 | 31 | | | | |
| 7 | 64 | 52 | 44 | 39 | 60 | 50 | 43 | 38 | 45 | 39 | 35 | 41 | 36 | 33 | 37 | 33 | 30 | 28 | | | | |
| 8 | 60 | 48 | 40 | 35 | 56 | 46 | 39 | 34 | 42 | 36 | 32 | 38 | 33 | 30 | 34 | 30 | 28 | 25 | | | | |
| 9 | 56 | 44 | 37 | 32 | 53 | 42 | 36 | 31 | 39 | 33 | 29 | 35 | 31 | 27 | 32 | 28 | 25 | 23 | | | | |
| 10 | 53 | 41 | 34 | 29 | 50 | 39 | 33 | 28 | 36 | 31 | 27 | 33 | 28 | 25 | 30 | 26 | 23 | 22 | | | | |

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: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.3 | 4.5 |
| 10°-20° | 331.7 | 10.3 |
| 20°-30° | 380.5 | 11.8 |
| 30°-40° | 375.1 | 11.7 |
| 40°-50° | 330.8 | 10.3 |
| 50°-60° | 254.5 | 7.9 |
| 60°-70° | 167.3 | 5.2 |
| 70°-80° | 81.3 | 2.5 |
| 80°-90° | 21.3 | 0.7 |
| 90°-100° | 81.6 | 2.5 |
| 100°-110° | 238.8 | 7.4 |
| 110°-120° | 233.2 | 7.2 |
| 120°-130° | 185.7 | 5.8 |
| 130°-140° | 146.5 | 4.6 |
| 140°-150° | 109.3 | 3.4 |
| 150°-160° | 76.2 | 2.4 |
| 160°-170° | 44.8 | 1.4 |
| 170°-180° | 14.6 | 0.5 |
| 0°-30° | 855.5 | 26.6 |
| 0°-40° | 1230.6 | 38.3 |
| 0°-60° | 1815.9 | 56.5 |
| 0°-90° | 2085.7 | 64.8 |
| 90°-120° | 553.5 | 17.2 |
| 90°-150° | 995.1 | 30.9 |
| 90°-180° | 1131.0 | 35.2 |
| 0°-180° | 3216.3 | 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° | 9 | 8 | 1 | 8 | 9 | 5 |
| 95° | 35 | 180 | 10 | 180 | 35 | 57 |
| 105° | 387 | 245 | 35 | 245 | 387 | 386 |
| 115° | 471 | 187 | 62 | 187 | 471 | 459 |
| 125° | 371 | 175 | 87 | 175 | 371 | 336 |
| 135° | 301 | 172 | 102 | 172 | 301 | 233 |
| 145° | 235 | 170 | 116 | 170 | 235 | 149 |
| 155° | 195 | 165 | 132 | 165 | 195 | 91 |
| 165° | 170 | 158 | 144 | 158 | 170 | 49 |
| 175° | 153 | 151 | 150 | 151 | 153 | 15 |
| 180° | 150 | 150 | 150 | 150 | 150 | |



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

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° | 8.8 | 9.1 | 8.8 | 8.5 | 8.8 | 8.2 | 7.9 | 7.6 | 7.3 | 7.6 | 6.7 |
| 92.5° | 16.1 | 16.7 | 16.4 | 17.6 | 18.3 | 20.4 | 23.4 | 30.1 | 42.3 | 56.6 | 62.7 |
| 95° | 35.3 | 36.5 | 38.6 | 41.4 | 47.2 | 58.1 | 74.2 | 109.5 | 146.3 | 180.4 | 160.6 |
| 97.5° | 72.4 | 75.8 | 83.1 | 94.6 | 115.0 | 149.7 | 189.9 | 251.6 | 286.9 | 277.5 | 207.2 |
| 100° | 190.8 | 190.5 | 202.3 | 224.5 | 255.3 | 298.5 | 334.1 | 358.7 | 348.1 | 288.1 | 194.7 |
| 102.5° | 302.1 | 311.0 | 320.4 | 336.8 | 359.0 | 382.5 | 399.5 | 394.3 | 351.1 | 268.4 | 176.5 |
| 105° | 387.0 | 388.5 | 398.3 | 409.8 | 423.8 | 431.7 | 426.0 | 395.5 | 331.9 | 244.6 | 162.2 |
| 107.5° | 442.4 | 445.7 | 449.7 | 455.2 | 457.0 | 448.8 | 425.1 | 377.3 | 304.6 | 223.6 | 151.8 |
| 110° | 474.0 | 474.6 | 475.3 | 472.8 | 464.3 | 443.0 | 404.7 | 348.7 | 279.0 | 206.3 | 146.3 |



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

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° | 5.8 | 4.9 | 4.0 | 3.3 | 2.7 | 1.8 | 1.2 | 0.6 | 1.2 | 1.8 | 2.7 |
| 92.5° | 46.9 | 30.7 | 21.0 | 15.5 | 12.5 | 9.7 | 6.7 | 4.6 | 6.7 | 9.7 | 12.5 |
| 95° | 110.8 | 65.4 | 39.6 | 27.7 | 19.8 | 14.6 | 11.3 | 10.3 | 11.3 | 14.6 | 19.8 |
| 97.5° | 123.2 | 70.6 | 45.0 | 31.9 | 24.0 | 19.5 | 16.7 | 16.4 | 16.7 | 19.5 | 24.0 |
| 100° | 114.7 | 69.7 | 48.4 | 36.5 | 29.2 | 24.9 | 22.8 | 22.5 | 22.8 | 24.9 | 29.2 |
| 102.5° | 107.4 | 70.9 | 52.3 | 41.7 | 35.3 | 31.3 | 29.5 | 28.9 | 29.5 | 31.3 | 35.3 |
| 105° | 104.7 | 73.3 | 56.9 | 47.5 | 41.7 | 38.0 | 36.2 | 35.3 | 36.2 | 38.0 | 41.7 |
| 107.5° | 104.1 | 77.3 | 62.7 | 53.9 | 48.4 | 44.7 | 42.9 | 42.0 | 42.9 | 44.7 | 48.4 |
| 110° | 105.6 | 82.5 | 68.8 | 60.2 | 55.1 | 51.7 | 50.2 | 49.3 | 50.2 | 51.7 | 55.1 |



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

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° | 3.3 | 4.0 | 4.9 | 5.8 | 6.7 | 7.6 | 7.3 | 7.6 | 7.9 | 8.2 | 8.8 |
| 92.5° | 15.5 | 21.0 | 30.7 | 46.9 | 62.7 | 56.6 | 42.3 | 30.1 | 23.4 | 20.4 | 18.3 |
| 95° | 27.7 | 39.6 | 65.4 | 110.8 | 160.6 | 180.4 | 146.3 | 109.5 | 74.2 | 58.1 | 47.2 |
| 97.5° | 31.9 | 45.0 | 70.6 | 123.2 | 207.2 | 277.5 | 286.9 | 251.6 | 189.9 | 149.7 | 115.0 |
| 100° | 36.5 | 48.4 | 69.7 | 114.7 | 194.7 | 288.1 | 348.1 | 358.7 | 334.1 | 298.5 | 255.3 |
| 102.5° | 41.7 | 52.3 | 70.9 | 107.4 | 176.5 | 268.4 | 351.1 | 394.3 | 399.5 | 382.5 | 359.0 |
| 105° | 47.5 | 56.9 | 73.3 | 104.7 | 162.2 | 244.6 | 331.9 | 395.5 | 426.0 | 431.7 | 423.8 |
| 107.5° | 53.9 | 62.7 | 77.3 | 104.1 | 151.8 | 223.6 | 304.6 | 377.3 | 425.1 | 448.8 | 457.0 |
| 110° | 60.2 | 68.8 | 82.5 | 105.6 | 146.3 | 206.3 | 279.0 | 348.7 | 404.7 | 443.0 | 464.3 |



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

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° | 8.5 | 8.8 | 9.1 | 8.8 |
| 92.5° | 17.6 | 16.4 | 16.7 | 16.1 |
| 95° | 41.4 | 38.6 | 36.5 | 35.3 |
| 97.5° | 94.6 | 83.1 | 75.8 | 72.4 |
| 100° | 224.5 | 202.3 | 190.5 | 190.8 |
| 102.5° | 336.8 | 320.4 | 311.0 | 302.1 |
| 105° | 409.8 | 398.3 | 388.5 | 387.0 |
| 107.5° | 455.2 | 449.7 | 445.7 | 442.4 |
| 110° | 472.8 | 475.3 | 474.6 | 474.0 |



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P832244

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-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 | 11.87 | 12.81 | 12.70 | 13.65 | 14.70 | 16.53 | 17.47 | 17.37 | 18.31 | 19.36 |
| | 3H | 13.10 | 13.94 | 13.94 | 14.79 | 15.87 | 18.04 | 18.88 | 18.89 | 19.73 | 20.81 |
| | 4H | 13.49 | 14.27 | 14.35 | 15.14 | 16.22 | 18.54 | 19.32 | 19.40 | 20.18 | 21.27 |
| | 6H | 13.77 | 14.50 | 14.64 | 15.37 | 16.46 | 18.85 | 19.58 | 19.73 | 20.45 | 21.55 |
| | 8H | 13.86 | 14.55 | 14.74 | 15.44 | 16.54 | 18.94 | 19.62 | 19.82 | 20.51 | 21.61 |
| | 12H | 13.92 | 14.57 | 14.80 | 15.45 | 16.58 | 18.97 | 19.63 | 19.86 | 20.51 | 21.63 |
| 4H | 2H | 12.61 | 13.39 | 13.47 | 14.26 | 15.34 | 16.54 | 17.33 | 17.41 | 18.19 | 19.28 |
| | 3H | 13.98 | 14.64 | 14.86 | 15.53 | 16.63 | 18.21 | 18.86 | 19.09 | 19.76 | 20.86 |
| | 4H | 14.44 | 15.04 | 15.33 | 15.93 | 17.06 | 18.82 | 19.41 | 19.71 | 20.30 | 21.43 |
| | 6H | 14.82 | 15.33 | 15.72 | 16.24 | 17.37 | 19.26 | 19.77 | 20.17 | 20.69 | 21.82 |
| | 8H | 14.94 | 15.42 | 15.85 | 16.33 | 17.47 | 19.40 | 19.87 | 20.30 | 20.78 | 21.92 |
| | 12H | 15.02 | 15.45 | 15.95 | 16.38 | 17.53 | 19.46 | 19.89 | 20.39 | 20.82 | 21.97 |
| 8H | 4H | 14.77 | 15.24 | 15.67 | 16.15 | 17.29 | 18.79 | 19.27 | 19.70 | 20.18 | 21.32 |
| | 6H | 15.23 | 15.63 | 16.16 | 16.58 | 17.72 | 19.29 | 19.69 | 20.23 | 20.64 | 21.78 |
| | 8H | 15.43 | 15.77 | 16.37 | 16.72 | 17.88 | 19.48 | 19.83 | 20.42 | 20.77 | 21.93 |
| | 12H | 15.57 | 15.87 | 16.51 | 16.81 | 18.02 | 19.60 | 19.91 | 20.54 | 20.84 | 22.05 |
| 12H | 4H | 14.78 | 15.21 | 15.70 | 16.14 | 17.28 | 18.75 | 19.18 | 19.67 | 20.11 | 21.25 |
| | 6H | 15.29 | 15.64 | 16.23 | 16.58 | 17.74 | 19.27 | 19.62 | 20.21 | 20.56 | 21.72 |
| | 8H | 15.51 | 15.82 | 16.46 | 16.75 | 17.96 | 19.47 | 19.77 | 20.41 | 20.71 | 21.92 |