

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: P832272

Luminaire Tested: S123RDIP-S560D585U940-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832272
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-S560D585U940-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

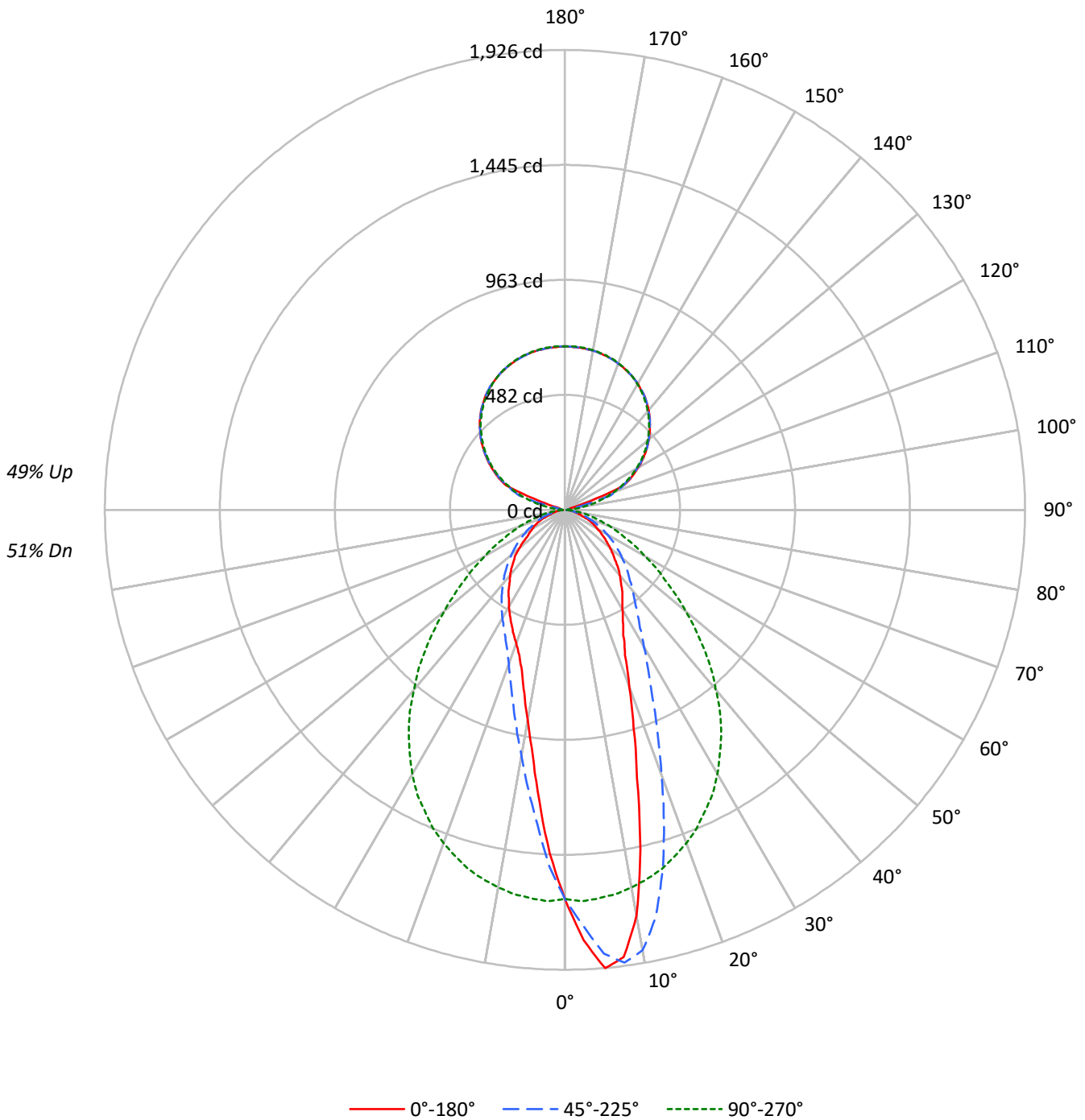
Lumens per Lamp: N/A
Luminaire Lumens: 4247.5 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.8
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: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 | | | | 51 |
| 1 | 99 | 95 | 91 | 88 | 91 | 88 | 85 | 82 | 75 | 72 | 70 | 63 | 61 | 60 | 52 | 51 | 50 | 44 | | | | 44 |
| 2 | 91 | 84 | 78 | 73 | 84 | 78 | 73 | 69 | 66 | 63 | 60 | 56 | 53 | 51 | 46 | 45 | 43 | 39 | | | | 39 |
| 3 | 83 | 74 | 68 | 62 | 77 | 69 | 63 | 58 | 59 | 55 | 51 | 50 | 47 | 44 | 42 | 40 | 38 | 34 | | | | 34 |
| 4 | 77 | 67 | 59 | 53 | 71 | 62 | 56 | 50 | 53 | 49 | 45 | 46 | 42 | 39 | 38 | 36 | 33 | 30 | | | | 30 |
| 5 | 71 | 60 | 52 | 47 | 65 | 56 | 49 | 44 | 48 | 43 | 39 | 41 | 38 | 34 | 35 | 32 | 30 | 27 | | | | 27 |
| 6 | 66 | 54 | 47 | 41 | 61 | 51 | 44 | 39 | 44 | 39 | 35 | 38 | 34 | 31 | 32 | 29 | 27 | 24 | | | | 24 |
| 7 | 61 | 49 | 42 | 36 | 56 | 46 | 40 | 35 | 40 | 35 | 31 | 35 | 31 | 28 | 30 | 27 | 24 | 22 | | | | 22 |
| 8 | 57 | 45 | 38 | 33 | 53 | 42 | 36 | 31 | 37 | 32 | 28 | 32 | 28 | 25 | 28 | 25 | 22 | 20 | | | | 20 |
| 9 | 53 | 42 | 34 | 30 | 49 | 39 | 33 | 28 | 34 | 29 | 26 | 30 | 26 | 23 | 26 | 23 | 20 | 18 | | | | 18 |
| 10 | 50 | 38 | 31 | 27 | 46 | 36 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 19 | 17 | | | | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 17530 | 17530 | 17530 | 17530 | 17530 |
| 5° | 20815 | 20151 | 17640 | 14260 | 13239 |
| 10° | 18859 | 20467 | 17552 | 11425 | 9802 |
| 15° | 12985 | 17549 | 17367 | 9338 | 7754 |
| 20° | 9033 | 13511 | 17018 | 7874 | 6814 |
| 25° | 6884 | 10297 | 16511 | 6999 | 6280 |
| 30° | 5992 | 8233 | 15877 | 6498 | 5818 |
| 35° | 5502 | 6945 | 14977 | 6076 | 5397 |
| 40° | 5019 | 6202 | 13801 | 5663 | 5011 |
| 45° | 4533 | 5672 | 12533 | 5270 | 4625 |
| 50° | 4114 | 5233 | 11035 | 4886 | 4148 |
| 55° | 3721 | 4806 | 9599 | 4511 | 3558 |
| 60° | 3335 | 4370 | 8338 | 4097 | 3363 |
| 65° | 3079 | 3876 | 7177 | 3683 | 3181 |
| 70° | 2502 | 3352 | 6263 | 3330 | 2584 |
| 75° | 2196 | 2666 | 5303 | 2761 | 2279 |
| 80° | 1990 | 2256 | 4345 | 2318 | 2151 |
| 85° | 1815 | 1976 | 3298 | 2100 | 1976 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 13224 cd/sqm



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.4 | 3.5 |
| 10°-20° | 343.5 | 8.1 |
| 20°-30° | 394.1 | 9.3 |
| 30°-40° | 388.5 | 9.1 |
| 40°-50° | 342.6 | 8.1 |
| 50°-60° | 263.5 | 6.2 |
| 60°-70° | 173.3 | 4.1 |
| 70°-80° | 84.2 | 2.0 |
| 80°-90° | 22.6 | 0.5 |
| 90°-100° | 24.1 | 0.6 |
| 100°-110° | 116.7 | 2.7 |
| 110°-120° | 286.0 | 6.7 |
| 120°-130° | 363.1 | 8.5 |
| 130°-140° | 387.9 | 9.1 |
| 140°-150° | 362.7 | 8.5 |
| 150°-160° | 292.6 | 6.9 |
| 160°-170° | 188.8 | 4.4 |
| 170°-180° | 65.1 | 1.5 |
| 0°-30° | 886.1 | 20.9 |
| 0°-40° | 1274.5 | 30.0 |
| 0°-60° | 1880.6 | 44.3 |
| 0°-90° | 2160.6 | 50.9 |
| 90°-120° | 426.8 | 10.0 |
| 90°-150° | 1540.4 | 36.3 |
| 90°-180° | 2087.0 | 49.1 |
| 0°-180° | 4247.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1629 | 1629 | 1629 | 1629 | 1629 | |
| 5° | 1926 | 1865 | 1633 | 1320 | 1225 | 176 |
| 15° | 1165 | 1575 | 1558 | 838 | 696 | 329 |
| 25° | 580 | 867 | 1390 | 589 | 529 | 274 |
| 35° | 419 | 528 | 1140 | 462 | 411 | 261 |
| 45° | 298 | 373 | 823 | 346 | 304 | 231 |
| 55° | 198 | 256 | 512 | 240 | 190 | 178 |
| 65° | 121 | 152 | 282 | 145 | 125 | 118 |
| 75° | 53 | 64 | 128 | 66 | 55 | 57 |
| 85° | 15 | 16 | 27 | 17 | 16 | 16 |
| 90° | 15 | 12 | 0 | 12 | 15 | 7 |
| 95° | 19 | 16 | 31 | 16 | 19 | 16 |
| 105° | 22 | 111 | 152 | 111 | 22 | 47 |
| 115° | 299 | 292 | 284 | 292 | 299 | 281 |
| 125° | 409 | 407 | 401 | 407 | 409 | 365 |
| 135° | 504 | 504 | 499 | 504 | 504 | 389 |
| 145° | 581 | 580 | 576 | 580 | 581 | 363 |
| 155° | 633 | 634 | 634 | 634 | 633 | 292 |
| 165° | 667 | 667 | 669 | 667 | 667 | 188 |
| 175° | 682 | 682 | 685 | 682 | 682 | 65 |
| 180° | 685 | 685 | 685 | 685 | 685 | |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 |
| 2.5° | 1804.9 | 1799.2 | 1793.5 | 1791.8 | 1790.2 | 1784.8 | 1779.5 | 1767.5 | 1755.5 | 1743.1 | 1730.8 |
| 5° | 1926.4 | 1927.1 | 1927.7 | 1926.1 | 1924.4 | 1917.4 | 1910.4 | 1895.7 | 1881.0 | 1865.0 | 1848.9 |
| 7.5° | 1889.0 | 1899.7 | 1910.4 | 1912.4 | 1914.4 | 1919.7 | 1925.1 | 1921.7 | 1918.4 | 1912.4 | 1906.4 |
| 10° | 1725.4 | 1724.7 | 1724.1 | 1736.1 | 1748.1 | 1783.8 | 1819.6 | 1837.9 | 1856.3 | 1872.6 | 1889.0 |
| 12.5° | 1458.3 | 1459.3 | 1460.3 | 1499.7 | 1539.1 | 1572.8 | 1606.6 | 1653.3 | 1700.0 | 1750.4 | 1800.9 |
| 15° | 1165.2 | 1181.5 | 1197.9 | 1233.0 | 1268.0 | 1318.8 | 1369.5 | 1432.3 | 1495.0 | 1574.8 | 1654.6 |
| 17.5° | 956.9 | 963.9 | 970.9 | 1004.6 | 1038.3 | 1086.4 | 1134.5 | 1205.6 | 1276.7 | 1379.5 | 1482.4 |
| 20° | 788.6 | 794.9 | 801.3 | 825.6 | 850.0 | 896.1 | 942.2 | 1009.9 | 1077.7 | 1179.5 | 1281.4 |
| 22.5° | 658.4 | 670.7 | 683.1 | 699.4 | 715.8 | 749.2 | 782.6 | 851.7 | 920.8 | 1013.6 | 1106.4 |
| 25° | 579.6 | 585.3 | 590.9 | 605.0 | 619.0 | 651.0 | 683.1 | 728.8 | 774.6 | 867.0 | 959.5 |
| 27.5° | 526.2 | 527.8 | 529.5 | 539.9 | 550.2 | 570.9 | 591.6 | 634.0 | 676.4 | 752.5 | 828.7 |
| 30° | 482.1 | 485.1 | 488.1 | 496.1 | 504.1 | 519.2 | 534.2 | 564.2 | 594.3 | 662.4 | 730.5 |
| 32.5° | 448.0 | 449.7 | 451.4 | 458.1 | 464.7 | 475.8 | 486.8 | 510.5 | 534.2 | 586.3 | 638.3 |
| 35° | 418.7 | 419.0 | 419.3 | 424.3 | 429.3 | 440.0 | 450.7 | 470.4 | 490.1 | 528.5 | 566.9 |
| 37.5° | 385.3 | 387.6 | 390.0 | 393.6 | 397.3 | 406.6 | 416.0 | 432.0 | 448.0 | 479.8 | 511.5 |
| 40° | 357.2 | 359.2 | 361.2 | 365.6 | 369.9 | 377.3 | 384.6 | 399.3 | 414.0 | 441.4 | 468.7 |
| 42.5° | 329.2 | 330.5 | 331.9 | 336.2 | 340.5 | 349.6 | 358.6 | 370.3 | 381.9 | 404.6 | 427.3 |
| 45° | 297.8 | 301.1 | 304.5 | 309.2 | 313.8 | 321.5 | 329.2 | 341.2 | 353.2 | 372.6 | 392.0 |
| 47.5° | 271.8 | 273.4 | 275.1 | 279.1 | 283.1 | 292.5 | 301.8 | 312.5 | 323.2 | 341.2 | 359.2 |
| 50° | 245.7 | 246.4 | 247.1 | 250.7 | 254.4 | 262.8 | 271.1 | 283.5 | 295.8 | 312.5 | 329.2 |
| 52.5° | 221.0 | 222.7 | 224.4 | 228.0 | 231.7 | 237.4 | 243.1 | 255.7 | 268.4 | 284.8 | 301.1 |
| 55° | 198.3 | 199.3 | 200.3 | 203.0 | 205.7 | 212.3 | 219.0 | 230.0 | 241.0 | 256.1 | 271.1 |
| 57.5° | 176.9 | 178.3 | 179.6 | 181.6 | 183.6 | 189.6 | 195.6 | 205.3 | 215.0 | 230.0 | 245.1 |
| 60° | 154.9 | 156.6 | 158.3 | 160.6 | 162.9 | 167.6 | 172.3 | 181.0 | 189.6 | 203.0 | 216.3 |
| 62.5° | 138.9 | 139.2 | 139.6 | 141.6 | 143.6 | 146.9 | 150.2 | 157.2 | 164.3 | 177.6 | 191.0 |
| 65° | 120.9 | 121.9 | 122.9 | 123.9 | 124.9 | 127.5 | 130.2 | 136.2 | 142.2 | 152.2 | 162.3 |
| 67.5° | 102.2 | 103.2 | 104.2 | 105.8 | 107.5 | 109.8 | 112.2 | 116.2 | 120.2 | 129.5 | 138.9 |
| 70° | 79.5 | 79.5 | 79.5 | 82.1 | 84.8 | 88.8 | 92.8 | 95.8 | 98.8 | 106.5 | 114.2 |
| 72.5° | 64.8 | 65.1 | 65.4 | 65.8 | 66.1 | 68.4 | 70.8 | 75.8 | 80.8 | 85.5 | 90.1 |
| 75° | 52.8 | 53.1 | 53.4 | 53.8 | 54.1 | 54.8 | 55.4 | 57.1 | 58.8 | 64.1 | 69.4 |
| 77.5° | 42.1 | 42.4 | 42.7 | 43.1 | 43.4 | 44.1 | 44.7 | 45.4 | 46.1 | 48.1 | 50.1 |
| 80° | 32.1 | 32.4 | 32.7 | 33.1 | 33.4 | 33.7 | 34.1 | 34.7 | 35.4 | 36.4 | 37.4 |
| 82.5° | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 24.0 | 24.7 | 24.7 | 24.7 | 25.4 | 26.0 |
| 85° | 14.7 | 14.7 | 14.7 | 15.0 | 15.4 | 15.4 | 15.4 | 15.7 | 16.0 | 16.0 | 16.0 |
| 87.5° | 6.7 | 6.3 | 6.0 | 6.3 | 6.7 | 6.7 | 6.7 | 7.0 | 7.3 | 7.3 | 7.3 |
| 90° | 15.3 | 15.0 | 14.8 | 14.6 | 14.4 | 14.0 | 13.6 | 13.1 | 12.7 | 12.2 | 10.7 |
| 92.5° | 17.3 | 17.2 | 17.1 | 17.0 | 16.8 | 16.4 | 15.6 | 14.8 | 14.0 | 13.2 | 12.2 |
| 95° | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 18.9 | 18.1 | 17.3 | 16.6 | 15.8 | 14.5 |
| 97.5° | 20.9 | 20.7 | 20.6 | 20.5 | 20.4 | 19.9 | 19.0 | 18.1 | 17.2 | 16.3 | 22.0 |
| 100° | 21.4 | 21.2 | 21.1 | 21.0 | 20.9 | 20.4 | 19.5 | 18.6 | 17.7 | 16.8 | 34.4 |
| 102.5° | 21.9 | 21.6 | 21.4 | 21.2 | 21.0 | 22.7 | 26.4 | 30.2 | 33.9 | 37.6 | 57.3 |
| 105° | 22.4 | 22.2 | 21.9 | 21.7 | 21.5 | 31.4 | 51.4 | 71.4 | 91.4 | 111.4 | 121.6 |
| 107.5° | 52.9 | 67.7 | 82.5 | 97.3 | 112.1 | 128.2 | 145.6 | 163.0 | 180.4 | 197.8 | 196.1 |
| 110° | 139.9 | 156.0 | 172.2 | 188.3 | 204.5 | 214.5 | 218.2 | 221.9 | 225.6 | 229.4 | 228.1 |

TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 265.0 | 265.2 | 265.4 | 265.7 | 265.9 | 265.5 | 264.5 | 263.5 | 262.4 | 261.4 | 260.2 |
| 115° | 299.1 | 298.6 | 298.1 | 297.7 | 297.2 | 296.5 | 295.3 | 294.2 | 293.1 | 291.9 | 290.9 |
| 117.5° | 326.5 | 326.4 | 326.3 | 326.2 | 326.1 | 325.6 | 324.7 | 323.7 | 322.8 | 321.9 | 321.4 |
| 120° | 355.0 | 355.0 | 355.0 | 355.0 | 355.0 | 354.5 | 353.6 | 352.7 | 351.8 | 350.9 | 350.6 |
| 122.5° | 383.0 | 382.9 | 382.7 | 382.6 | 382.5 | 382.2 | 381.6 | 381.0 | 380.5 | 379.9 | 379.5 |
| 125° | 408.9 | 408.7 | 408.5 | 408.2 | 408.0 | 407.8 | 407.6 | 407.3 | 407.1 | 406.9 | 406.4 |
| 127.5° | 434.3 | 434.6 | 434.8 | 435.0 | 435.2 | 435.2 | 434.8 | 434.5 | 434.2 | 433.8 | 433.3 |
| 130° | 458.7 | 459.0 | 459.2 | 459.4 | 459.7 | 459.5 | 459.1 | 458.6 | 458.2 | 457.7 | 457.3 |
| 132.5° | 481.1 | 481.5 | 481.8 | 482.1 | 482.5 | 482.4 | 482.0 | 481.5 | 481.1 | 480.6 | 480.3 |
| 135° | 504.0 | 504.4 | 504.7 | 505.0 | 505.4 | 505.4 | 505.0 | 504.7 | 504.4 | 504.0 | 503.6 |
| 137.5° | 525.9 | 526.1 | 526.3 | 526.6 | 526.8 | 526.6 | 526.1 | 525.5 | 524.9 | 524.4 | 524.1 |
| 140° | 545.2 | 545.4 | 545.7 | 545.9 | 546.1 | 546.0 | 545.5 | 545.1 | 544.6 | 544.2 | 543.9 |
| 142.5° | 563.0 | 563.4 | 563.7 | 564.0 | 564.4 | 564.4 | 564.0 | 563.7 | 563.4 | 563.0 | 562.7 |
| 145° | 581.3 | 581.3 | 581.3 | 581.3 | 581.3 | 581.2 | 581.0 | 580.8 | 580.5 | 580.3 | 580.1 |
| 147.5° | 594.5 | 595.1 | 595.7 | 596.2 | 596.8 | 597.0 | 596.7 | 596.5 | 596.3 | 596.1 | 595.8 |
| 150° | 609.8 | 610.1 | 610.5 | 610.8 | 611.2 | 611.2 | 611.0 | 610.8 | 610.5 | 610.3 | 610.1 |
| 152.5° | 622.0 | 622.6 | 623.1 | 623.7 | 624.3 | 624.3 | 623.9 | 623.4 | 623.0 | 622.5 | 622.4 |
| 155° | 633.2 | 633.9 | 634.6 | 635.2 | 635.9 | 636.0 | 635.4 | 634.8 | 634.3 | 633.7 | 633.6 |
| 157.5° | 642.9 | 643.8 | 644.7 | 645.6 | 646.5 | 646.6 | 645.9 | 645.2 | 644.6 | 643.9 | 644.0 |
| 160° | 652.0 | 652.8 | 653.6 | 654.4 | 655.2 | 655.2 | 654.6 | 653.9 | 653.2 | 652.5 | 652.6 |
| 162.5° | 660.7 | 661.3 | 662.0 | 662.7 | 663.4 | 663.3 | 662.5 | 661.7 | 660.9 | 660.2 | 660.3 |
| 165° | 667.3 | 668.1 | 668.9 | 669.6 | 670.4 | 670.4 | 669.5 | 668.6 | 667.7 | 666.8 | 666.9 |
| 167.5° | 672.4 | 673.3 | 674.2 | 675.1 | 676.0 | 676.0 | 675.1 | 674.2 | 673.3 | 672.4 | 672.4 |
| 170° | 676.9 | 677.8 | 678.7 | 679.6 | 680.6 | 680.6 | 679.6 | 678.7 | 677.8 | 676.9 | 676.9 |
| 172.5° | 679.5 | 680.5 | 681.5 | 682.5 | 683.5 | 683.6 | 682.7 | 681.8 | 680.9 | 680.0 | 679.9 |
| 175° | 682.0 | 682.9 | 683.8 | 684.7 | 685.6 | 685.7 | 684.9 | 684.1 | 683.3 | 682.5 | 682.4 |
| 177.5° | 682.5 | 683.7 | 684.8 | 685.9 | 687.1 | 687.2 | 686.3 | 685.4 | 684.5 | 683.5 | 683.4 |
| 180° | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 |

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CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 |
| 2.5° | 1729.1 | 1727.4 | 1711.4 | 1695.4 | 1679.7 | 1664.0 | 1652.3 | 1640.6 | 1620.9 | 1601.2 | 1588.9 |
| 5° | 1836.3 | 1823.6 | 1798.2 | 1772.8 | 1734.8 | 1696.7 | 1664.6 | 1632.6 | 1591.9 | 1551.1 | 1517.1 |
| 7.5° | 1896.0 | 1885.7 | 1854.9 | 1824.2 | 1773.8 | 1723.4 | 1673.3 | 1623.2 | 1563.2 | 1503.1 | 1451.6 |
| 10° | 1897.7 | 1906.4 | 1881.0 | 1855.6 | 1798.9 | 1742.1 | 1674.0 | 1605.9 | 1525.1 | 1444.3 | 1377.9 |
| 12.5° | 1838.3 | 1875.6 | 1870.3 | 1865.0 | 1807.2 | 1749.4 | 1666.6 | 1583.9 | 1484.7 | 1385.5 | 1302.4 |
| 15° | 1727.1 | 1799.5 | 1820.9 | 1842.3 | 1794.5 | 1746.8 | 1652.6 | 1558.5 | 1442.0 | 1325.4 | 1230.0 |
| 17.5° | 1583.9 | 1685.3 | 1741.8 | 1798.2 | 1763.5 | 1728.7 | 1625.6 | 1522.4 | 1391.2 | 1260.0 | 1156.2 |
| 20° | 1414.2 | 1547.1 | 1635.6 | 1724.1 | 1711.4 | 1698.7 | 1592.2 | 1485.7 | 1344.1 | 1202.6 | 1090.1 |
| 22.5° | 1246.6 | 1386.9 | 1509.1 | 1631.3 | 1644.3 | 1657.3 | 1549.8 | 1442.3 | 1287.4 | 1132.5 | 1018.0 |
| 25° | 1102.1 | 1244.6 | 1390.2 | 1535.8 | 1565.2 | 1594.5 | 1492.4 | 1390.2 | 1229.6 | 1069.0 | 955.2 |
| 27.5° | 964.2 | 1099.7 | 1260.0 | 1420.3 | 1473.7 | 1527.1 | 1433.6 | 1340.1 | 1172.9 | 1005.6 | 892.1 |
| 30° | 851.7 | 972.9 | 1136.5 | 1300.1 | 1374.5 | 1449.0 | 1363.2 | 1277.4 | 1111.4 | 945.5 | 834.3 |
| 32.5° | 746.9 | 855.4 | 1019.6 | 1183.9 | 1270.4 | 1356.8 | 1282.7 | 1208.6 | 1049.0 | 889.4 | 779.6 |
| 35° | 664.1 | 761.2 | 914.5 | 1067.7 | 1164.5 | 1261.3 | 1200.6 | 1139.8 | 983.9 | 828.0 | 724.2 |
| 37.5° | 592.9 | 674.4 | 818.3 | 962.2 | 1065.0 | 1167.9 | 1117.1 | 1066.4 | 919.8 | 773.2 | 675.1 |
| 40° | 534.2 | 599.6 | 733.5 | 867.4 | 968.2 | 1069.0 | 1025.6 | 982.2 | 851.0 | 719.8 | 628.0 |
| 42.5° | 483.8 | 540.2 | 660.4 | 780.6 | 873.1 | 965.5 | 936.8 | 908.1 | 789.3 | 670.4 | 585.3 |
| 45° | 439.4 | 486.8 | 592.6 | 698.4 | 783.6 | 868.7 | 846.0 | 823.3 | 720.8 | 618.3 | 540.2 |
| 47.5° | 400.0 | 440.7 | 535.2 | 629.7 | 706.1 | 782.6 | 761.5 | 740.5 | 655.7 | 570.9 | 499.8 |
| 50° | 363.9 | 398.6 | 477.4 | 556.2 | 625.0 | 693.8 | 676.4 | 659.0 | 588.9 | 518.8 | 457.4 |
| 52.5° | 329.9 | 358.6 | 429.3 | 500.1 | 555.5 | 611.0 | 597.6 | 584.3 | 530.2 | 476.1 | 420.3 |
| 55° | 297.5 | 323.8 | 383.6 | 443.4 | 490.8 | 538.2 | 524.8 | 511.5 | 469.4 | 427.3 | 378.3 |
| 57.5° | 268.1 | 291.1 | 339.5 | 388.0 | 425.7 | 463.4 | 457.1 | 450.7 | 415.7 | 380.6 | 340.2 |
| 60° | 237.0 | 257.7 | 299.5 | 341.2 | 371.6 | 402.0 | 394.6 | 387.3 | 362.2 | 337.2 | 302.5 |
| 62.5° | 209.3 | 227.7 | 261.1 | 294.5 | 319.2 | 343.9 | 338.5 | 333.2 | 314.2 | 295.1 | 266.4 |
| 65° | 180.3 | 198.3 | 225.4 | 252.4 | 271.8 | 291.1 | 286.5 | 281.8 | 267.4 | 253.1 | 230.0 |
| 67.5° | 153.9 | 168.9 | 192.3 | 215.7 | 228.7 | 241.7 | 239.0 | 236.4 | 225.4 | 214.3 | 196.3 |
| 70° | 127.2 | 140.2 | 159.6 | 179.0 | 188.0 | 197.0 | 198.0 | 199.0 | 189.0 | 179.0 | 165.6 |
| 72.5° | 100.5 | 110.8 | 128.9 | 146.9 | 153.9 | 160.9 | 160.6 | 160.3 | 154.2 | 148.2 | 136.2 |
| 75° | 77.1 | 84.8 | 98.8 | 112.8 | 118.9 | 124.9 | 126.2 | 127.5 | 121.9 | 116.2 | 109.5 |
| 77.5° | 55.4 | 60.8 | 71.4 | 82.1 | 88.8 | 95.5 | 96.2 | 96.8 | 94.1 | 91.5 | 85.1 |
| 80° | 39.1 | 40.7 | 47.4 | 54.1 | 61.1 | 68.1 | 69.1 | 70.1 | 67.4 | 64.8 | 60.8 |
| 82.5° | 27.0 | 28.0 | 30.4 | 32.7 | 38.4 | 44.1 | 45.4 | 46.7 | 45.4 | 44.1 | 39.7 |
| 85° | 16.4 | 16.7 | 17.7 | 18.7 | 21.4 | 24.0 | 25.4 | 26.7 | 26.0 | 25.4 | 23.0 |
| 87.5° | 7.3 | 7.3 | 7.7 | 8.0 | 8.7 | 9.3 | 11.0 | 12.7 | 11.7 | 10.7 | 9.7 |
| 90° | 9.3 | 7.8 | 6.3 | 5.0 | 3.9 | 2.8 | 1.6 | 0.5 | 1.6 | 2.8 | 3.9 |
| 92.5° | 11.2 | 10.2 | 9.2 | 9.0 | 9.7 | 10.3 | 11.0 | 11.7 | 11.0 | 10.3 | 9.7 |
| 95° | 13.3 | 12.0 | 10.8 | 12.5 | 17.1 | 21.8 | 26.4 | 31.0 | 26.4 | 21.8 | 17.1 |
| 97.5° | 27.8 | 33.6 | 39.3 | 43.8 | 47.0 | 50.1 | 53.3 | 56.5 | 53.3 | 50.1 | 47.0 |
| 100° | 52.0 | 69.7 | 87.3 | 95.0 | 92.7 | 90.5 | 88.2 | 86.0 | 88.2 | 90.5 | 92.7 |
| 102.5° | 77.0 | 96.6 | 116.3 | 125.4 | 123.9 | 122.5 | 121.0 | 119.5 | 121.0 | 122.5 | 123.9 |
| 105° | 131.7 | 141.9 | 152.1 | 156.5 | 155.3 | 154.0 | 152.8 | 151.6 | 152.8 | 154.0 | 155.3 |
| 107.5° | 194.5 | 192.8 | 191.1 | 189.7 | 188.7 | 187.7 | 186.7 | 185.6 | 186.7 | 187.7 | 188.7 |
| 110° | 226.9 | 225.6 | 224.4 | 223.3 | 222.4 | 221.5 | 220.6 | 219.7 | 220.6 | 221.5 | 222.4 |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 258.9 | 257.7 | 256.4 | 255.4 | 254.6 | 253.8 | 253.1 | 252.3 | 253.1 | 253.8 | 254.6 |
| 115° | 289.9 | 288.9 | 287.9 | 287.0 | 286.3 | 285.7 | 285.0 | 284.3 | 285.0 | 285.7 | 286.3 |
| 117.5° | 320.8 | 320.2 | 319.7 | 319.0 | 318.2 | 317.4 | 316.6 | 315.8 | 316.6 | 317.4 | 318.2 |
| 120° | 350.3 | 349.9 | 349.6 | 348.9 | 347.9 | 346.9 | 345.8 | 344.8 | 345.8 | 346.9 | 347.9 |
| 122.5° | 379.0 | 378.6 | 378.1 | 377.5 | 376.7 | 375.9 | 375.1 | 374.3 | 375.1 | 375.9 | 376.7 |
| 125° | 406.0 | 405.5 | 405.1 | 404.4 | 403.5 | 402.6 | 401.7 | 400.8 | 401.7 | 402.6 | 403.5 |
| 127.5° | 432.7 | 432.1 | 431.6 | 430.8 | 429.9 | 429.0 | 428.1 | 427.2 | 428.1 | 429.0 | 429.9 |
| 130° | 456.8 | 456.4 | 455.9 | 455.2 | 454.3 | 453.4 | 452.5 | 451.6 | 452.5 | 453.4 | 454.3 |
| 132.5° | 479.9 | 479.6 | 479.3 | 478.6 | 477.7 | 476.8 | 475.9 | 475.0 | 475.9 | 476.8 | 477.7 |
| 135° | 503.1 | 502.7 | 502.2 | 501.6 | 501.0 | 500.3 | 499.6 | 498.9 | 499.6 | 500.3 | 501.0 |
| 137.5° | 523.9 | 523.7 | 523.5 | 522.9 | 522.0 | 521.1 | 520.2 | 519.3 | 520.2 | 521.1 | 522.0 |
| 140° | 543.5 | 543.2 | 542.8 | 542.3 | 541.7 | 541.0 | 540.3 | 539.6 | 540.3 | 541.0 | 541.7 |
| 142.5° | 562.3 | 562.0 | 561.7 | 561.1 | 560.5 | 559.8 | 559.1 | 558.4 | 559.1 | 559.8 | 560.5 |
| 145° | 579.9 | 579.6 | 579.4 | 578.9 | 578.1 | 577.3 | 576.5 | 575.7 | 576.5 | 577.3 | 578.1 |
| 147.5° | 595.6 | 595.4 | 595.2 | 594.8 | 594.2 | 593.6 | 593.1 | 592.5 | 593.1 | 593.6 | 594.2 |
| 150° | 609.9 | 609.6 | 609.4 | 609.1 | 608.8 | 608.4 | 608.1 | 607.8 | 608.1 | 608.4 | 608.8 |
| 152.5° | 622.3 | 622.2 | 622.1 | 622.0 | 621.8 | 621.7 | 621.6 | 621.5 | 621.6 | 621.7 | 621.8 |
| 155° | 633.5 | 633.4 | 633.3 | 633.3 | 633.5 | 633.8 | 634.0 | 634.2 | 634.0 | 633.8 | 633.5 |
| 157.5° | 644.1 | 644.2 | 644.3 | 644.4 | 644.4 | 644.4 | 644.4 | 644.4 | 644.4 | 644.4 | 644.4 |
| 160° | 652.7 | 652.9 | 653.0 | 653.1 | 653.2 | 653.3 | 653.4 | 653.5 | 653.4 | 653.3 | 653.2 |
| 162.5° | 660.4 | 660.5 | 660.6 | 660.8 | 661.2 | 661.5 | 661.8 | 662.2 | 661.8 | 661.5 | 661.2 |
| 165° | 667.0 | 667.1 | 667.2 | 667.4 | 667.8 | 668.1 | 668.5 | 668.8 | 668.5 | 668.1 | 667.8 |
| 167.5° | 672.4 | 672.4 | 672.4 | 672.6 | 673.0 | 673.5 | 673.9 | 674.4 | 673.9 | 673.5 | 673.0 |
| 170° | 676.9 | 676.9 | 676.9 | 677.2 | 677.6 | 678.1 | 678.5 | 679.0 | 678.5 | 678.1 | 677.6 |
| 172.5° | 679.8 | 679.6 | 679.5 | 679.8 | 680.3 | 680.9 | 681.5 | 682.0 | 681.5 | 680.9 | 680.3 |
| 175° | 682.3 | 682.2 | 682.1 | 682.3 | 682.9 | 683.4 | 684.0 | 684.6 | 684.0 | 683.4 | 682.9 |
| 177.5° | 683.3 | 683.2 | 683.1 | 683.3 | 683.9 | 684.5 | 685.0 | 685.6 | 685.0 | 684.5 | 683.9 |
| 180° | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 | 1628.6 |
| 2.5° | 1576.5 | 1557.5 | 1538.4 | 1524.8 | 1511.1 | 1494.0 | 1477.0 | 1476.3 | 1475.7 | 1463.0 | 1450.3 |
| 5° | 1483.0 | 1450.0 | 1416.9 | 1384.5 | 1352.1 | 1319.8 | 1287.4 | 1280.0 | 1272.7 | 1261.7 | 1250.7 |
| 7.5° | 1400.2 | 1347.5 | 1294.7 | 1253.3 | 1211.9 | 1179.5 | 1147.2 | 1125.1 | 1103.1 | 1086.1 | 1069.0 |
| 10° | 1311.4 | 1246.0 | 1180.5 | 1130.5 | 1080.4 | 1045.3 | 1010.3 | 984.9 | 959.5 | 947.5 | 935.5 |
| 12.5° | 1219.3 | 1148.2 | 1077.0 | 1028.0 | 978.9 | 936.8 | 894.8 | 871.7 | 848.7 | 832.0 | 815.3 |
| 15° | 1134.5 | 1058.0 | 981.6 | 929.5 | 877.4 | 838.0 | 798.6 | 775.6 | 752.5 | 735.8 | 719.1 |
| 17.5° | 1052.3 | 975.2 | 898.1 | 845.3 | 792.6 | 756.9 | 721.1 | 698.8 | 676.4 | 666.1 | 655.7 |
| 20° | 977.6 | 899.8 | 822.0 | 772.2 | 722.5 | 687.4 | 652.4 | 640.4 | 628.3 | 618.7 | 609.0 |
| 22.5° | 903.4 | 828.7 | 753.9 | 706.1 | 658.4 | 633.0 | 607.6 | 598.0 | 588.3 | 580.9 | 573.6 |
| 25° | 841.3 | 766.9 | 692.4 | 650.7 | 609.0 | 589.3 | 569.6 | 563.2 | 556.9 | 549.5 | 542.2 |
| 27.5° | 778.6 | 707.8 | 637.0 | 603.6 | 570.2 | 554.2 | 538.2 | 530.2 | 522.2 | 516.2 | 510.1 |
| 30° | 723.1 | 657.7 | 592.3 | 564.6 | 536.9 | 522.8 | 508.8 | 500.1 | 491.4 | 485.8 | 480.1 |
| 32.5° | 669.7 | 611.6 | 553.5 | 529.8 | 506.1 | 492.4 | 478.8 | 470.4 | 462.1 | 455.4 | 448.7 |
| 35° | 620.3 | 569.9 | 519.5 | 497.8 | 476.1 | 462.4 | 448.7 | 440.4 | 432.0 | 425.3 | 418.7 |
| 37.5° | 576.9 | 531.2 | 485.4 | 465.1 | 444.7 | 432.7 | 420.7 | 412.0 | 403.3 | 396.3 | 389.3 |
| 40° | 536.2 | 495.8 | 455.4 | 435.7 | 416.0 | 403.0 | 390.0 | 382.3 | 374.6 | 368.3 | 361.9 |
| 42.5° | 500.1 | 463.1 | 426.0 | 406.6 | 387.3 | 374.9 | 362.6 | 353.6 | 344.5 | 340.9 | 337.2 |
| 45° | 462.1 | 429.3 | 396.6 | 377.9 | 359.2 | 346.2 | 333.2 | 325.5 | 317.8 | 314.5 | 311.2 |
| 47.5° | 428.7 | 398.3 | 367.9 | 349.6 | 331.2 | 319.5 | 307.8 | 301.8 | 295.8 | 291.1 | 286.5 |
| 50° | 396.0 | 366.6 | 337.2 | 319.5 | 301.8 | 291.8 | 281.8 | 274.4 | 267.1 | 263.8 | 260.4 |
| 52.5° | 364.6 | 337.9 | 311.2 | 293.1 | 275.1 | 265.4 | 255.7 | 249.4 | 243.1 | 236.0 | 229.0 |
| 55° | 329.2 | 305.8 | 282.4 | 266.4 | 250.4 | 240.4 | 230.4 | 223.0 | 215.7 | 208.3 | 201.0 |
| 57.5° | 299.8 | 276.8 | 253.7 | 239.4 | 225.0 | 215.3 | 205.7 | 197.6 | 189.6 | 183.6 | 177.6 |
| 60° | 267.8 | 247.7 | 227.7 | 213.7 | 199.7 | 190.3 | 181.0 | 173.3 | 165.6 | 162.6 | 159.6 |
| 62.5° | 237.7 | 219.0 | 200.3 | 188.0 | 175.6 | 166.6 | 157.6 | 152.6 | 147.6 | 145.6 | 143.6 |
| 65° | 207.0 | 191.0 | 174.9 | 163.6 | 152.2 | 144.6 | 136.9 | 134.5 | 132.2 | 130.5 | 128.9 |
| 67.5° | 178.3 | 164.6 | 150.9 | 140.9 | 130.9 | 125.5 | 120.2 | 117.5 | 114.8 | 112.8 | 110.8 |
| 70° | 152.2 | 140.2 | 128.2 | 119.5 | 110.8 | 105.8 | 100.8 | 98.5 | 96.2 | 92.5 | 88.8 |
| 72.5° | 124.2 | 114.8 | 105.5 | 98.8 | 92.1 | 87.8 | 83.5 | 78.8 | 74.1 | 70.8 | 67.4 |
| 75° | 102.8 | 93.5 | 84.1 | 77.8 | 71.4 | 66.4 | 61.4 | 59.8 | 58.1 | 57.1 | 56.1 |
| 77.5° | 78.8 | 70.8 | 62.8 | 57.8 | 52.8 | 50.4 | 48.1 | 47.1 | 46.1 | 45.7 | 45.4 |
| 80° | 56.8 | 50.1 | 43.4 | 40.7 | 38.1 | 37.4 | 36.7 | 36.1 | 35.4 | 35.1 | 34.7 |
| 82.5° | 35.4 | 32.1 | 28.7 | 28.0 | 27.4 | 27.0 | 26.7 | 26.4 | 26.0 | 25.7 | 25.4 |
| 85° | 20.7 | 19.4 | 18.0 | 17.7 | 17.4 | 17.0 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 |
| 87.5° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.3 | 8.0 |
| 90° | 5.0 | 6.3 | 7.8 | 9.3 | 10.7 | 12.2 | 12.7 | 13.1 | 13.6 | 14.0 | 14.4 |
| 92.5° | 9.0 | 9.2 | 10.2 | 11.2 | 12.2 | 13.2 | 14.0 | 14.8 | 15.6 | 16.4 | 16.8 |
| 95° | 12.5 | 10.8 | 12.0 | 13.3 | 14.5 | 15.8 | 16.6 | 17.3 | 18.1 | 18.9 | 19.3 |
| 97.5° | 43.8 | 39.3 | 33.6 | 27.8 | 22.0 | 16.3 | 17.2 | 18.1 | 19.0 | 19.9 | 20.4 |
| 100° | 95.0 | 87.3 | 69.7 | 52.0 | 34.4 | 16.8 | 17.7 | 18.6 | 19.5 | 20.4 | 20.9 |
| 102.5° | 125.4 | 116.3 | 96.6 | 77.0 | 57.3 | 37.6 | 33.9 | 30.2 | 26.4 | 22.7 | 21.0 |
| 105° | 156.5 | 152.1 | 141.9 | 131.7 | 121.6 | 111.4 | 91.4 | 71.4 | 51.4 | 31.4 | 21.5 |
| 107.5° | 189.7 | 191.1 | 192.8 | 194.5 | 196.1 | 197.8 | 180.4 | 163.0 | 145.6 | 128.2 | 112.1 |
| 110° | 223.3 | 224.4 | 225.6 | 226.9 | 228.1 | 229.4 | 225.6 | 221.9 | 218.2 | 214.5 | 204.5 |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 255.4 | 256.4 | 257.7 | 258.9 | 260.2 | 261.4 | 262.4 | 263.5 | 264.5 | 265.5 | 265.9 |
| 115° | 287.0 | 287.9 | 288.9 | 289.9 | 290.9 | 291.9 | 293.1 | 294.2 | 295.3 | 296.5 | 297.2 |
| 117.5° | 319.0 | 319.7 | 320.2 | 320.8 | 321.4 | 321.9 | 322.8 | 323.7 | 324.7 | 325.6 | 326.1 |
| 120° | 348.9 | 349.6 | 349.9 | 350.3 | 350.6 | 350.9 | 351.8 | 352.7 | 353.6 | 354.5 | 355.0 |
| 122.5° | 377.5 | 378.1 | 378.6 | 379.0 | 379.5 | 379.9 | 380.5 | 381.0 | 381.6 | 382.2 | 382.5 |
| 125° | 404.4 | 405.1 | 405.5 | 406.0 | 406.4 | 406.9 | 407.1 | 407.3 | 407.6 | 407.8 | 408.0 |
| 127.5° | 430.8 | 431.6 | 432.1 | 432.7 | 433.3 | 433.8 | 434.2 | 434.5 | 434.8 | 435.2 | 435.2 |
| 130° | 455.2 | 455.9 | 456.4 | 456.8 | 457.3 | 457.7 | 458.2 | 458.6 | 459.1 | 459.5 | 459.7 |
| 132.5° | 478.6 | 479.3 | 479.6 | 479.9 | 480.3 | 480.6 | 481.1 | 481.5 | 482.0 | 482.4 | 482.5 |
| 135° | 501.6 | 502.2 | 502.7 | 503.1 | 503.6 | 504.0 | 504.4 | 504.7 | 505.0 | 505.4 | 505.4 |
| 137.5° | 522.9 | 523.5 | 523.7 | 523.9 | 524.1 | 524.4 | 524.9 | 525.5 | 526.1 | 526.6 | 526.8 |
| 140° | 542.3 | 542.8 | 543.2 | 543.5 | 543.9 | 544.2 | 544.6 | 545.1 | 545.5 | 546.0 | 546.1 |
| 142.5° | 561.1 | 561.7 | 562.0 | 562.3 | 562.7 | 563.0 | 563.4 | 563.7 | 564.0 | 564.4 | 564.4 |
| 145° | 578.9 | 579.4 | 579.6 | 579.9 | 580.1 | 580.3 | 580.5 | 580.8 | 581.0 | 581.2 | 581.3 |
| 147.5° | 594.8 | 595.2 | 595.4 | 595.6 | 595.8 | 596.1 | 596.3 | 596.5 | 596.7 | 597.0 | 596.8 |
| 150° | 609.1 | 609.4 | 609.6 | 609.9 | 610.1 | 610.3 | 610.5 | 610.8 | 611.0 | 611.2 | 611.2 |
| 152.5° | 622.0 | 622.1 | 622.2 | 622.3 | 622.4 | 622.5 | 623.0 | 623.4 | 623.9 | 624.3 | 624.3 |
| 155° | 633.3 | 633.3 | 633.4 | 633.5 | 633.6 | 633.7 | 634.3 | 634.8 | 635.4 | 636.0 | 635.9 |
| 157.5° | 644.4 | 644.3 | 644.2 | 644.1 | 644.0 | 643.9 | 644.6 | 645.2 | 645.9 | 646.6 | 646.5 |
| 160° | 653.1 | 653.0 | 652.9 | 652.7 | 652.6 | 652.5 | 653.2 | 653.9 | 654.6 | 655.2 | 655.2 |
| 162.5° | 660.8 | 660.6 | 660.5 | 660.4 | 660.3 | 660.2 | 660.9 | 661.7 | 662.5 | 663.3 | 663.4 |
| 165° | 667.4 | 667.2 | 667.1 | 667.0 | 666.9 | 666.8 | 667.7 | 668.6 | 669.5 | 670.4 | 670.4 |
| 167.5° | 672.6 | 672.4 | 672.4 | 672.4 | 672.4 | 672.4 | 673.3 | 674.2 | 675.1 | 676.0 | 676.0 |
| 170° | 677.2 | 676.9 | 676.9 | 676.9 | 676.9 | 676.9 | 677.8 | 678.7 | 679.6 | 680.6 | 680.6 |
| 172.5° | 679.8 | 679.5 | 679.6 | 679.8 | 679.9 | 680.0 | 680.9 | 681.8 | 682.7 | 683.6 | 683.5 |
| 175° | 682.3 | 682.1 | 682.2 | 682.3 | 682.4 | 682.5 | 683.3 | 684.1 | 684.9 | 685.7 | 685.6 |
| 177.5° | 683.3 | 683.1 | 683.2 | 683.3 | 683.4 | 683.5 | 684.5 | 685.4 | 686.3 | 687.2 | 687.1 |
| 180° | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 1628.6 | 1628.6 | 1628.6 | 1628.6 |
| 2.5° | 1447.0 | 1443.6 | 1442.3 | 1441.0 |
| 5° | 1240.3 | 1230.0 | 1227.6 | 1225.3 |
| 7.5° | 1064.7 | 1060.4 | 1046.0 | 1031.6 |
| 10° | 922.1 | 908.8 | 902.8 | 896.8 |
| 12.5° | 802.9 | 790.6 | 788.6 | 786.6 |
| 15° | 710.5 | 701.8 | 698.8 | 695.8 |
| 17.5° | 649.7 | 643.7 | 640.0 | 636.3 |
| 20° | 604.6 | 600.3 | 597.6 | 594.9 |
| 22.5° | 570.2 | 566.9 | 564.9 | 562.9 |
| 25° | 537.2 | 532.2 | 530.5 | 528.8 |
| 27.5° | 505.8 | 501.5 | 499.8 | 498.1 |
| 30° | 476.4 | 472.8 | 470.4 | 468.1 |
| 32.5° | 444.4 | 440.0 | 438.7 | 437.4 |
| 35° | 416.0 | 413.3 | 412.0 | 410.7 |
| 37.5° | 385.9 | 382.6 | 380.6 | 378.6 |
| 40° | 360.2 | 358.6 | 357.6 | 356.6 |
| 42.5° | 334.2 | 331.2 | 330.9 | 330.5 |
| 45° | 308.2 | 305.2 | 304.5 | 303.8 |
| 47.5° | 283.8 | 281.1 | 280.8 | 280.4 |
| 50° | 256.7 | 253.1 | 250.4 | 247.7 |
| 52.5° | 225.7 | 222.4 | 220.0 | 217.7 |
| 55° | 197.3 | 193.6 | 191.6 | 189.6 |
| 57.5° | 175.9 | 174.3 | 173.3 | 172.3 |
| 60° | 158.6 | 157.6 | 156.9 | 156.2 |
| 62.5° | 142.6 | 141.6 | 141.6 | 141.6 |
| 65° | 127.9 | 126.9 | 125.9 | 124.9 |
| 67.5° | 108.8 | 106.8 | 106.5 | 106.2 |
| 70° | 85.8 | 82.8 | 82.5 | 82.1 |
| 72.5° | 67.1 | 66.8 | 66.1 | 65.4 |
| 75° | 55.4 | 54.8 | 54.8 | 54.8 |
| 77.5° | 44.7 | 44.1 | 44.1 | 44.1 |
| 80° | 34.4 | 34.1 | 34.4 | 34.7 |
| 82.5° | 25.4 | 25.4 | 25.0 | 24.7 |
| 85° | 16.4 | 16.0 | 16.0 | 16.0 |
| 87.5° | 8.0 | 8.0 | 8.0 | 8.0 |
| 90° | 14.6 | 14.8 | 15.0 | 15.3 |
| 92.5° | 17.0 | 17.1 | 17.2 | 17.3 |
| 95° | 19.3 | 19.3 | 19.3 | 19.3 |
| 97.5° | 20.5 | 20.6 | 20.7 | 20.9 |
| 100° | 21.0 | 21.1 | 21.2 | 21.4 |
| 102.5° | 21.2 | 21.4 | 21.6 | 21.9 |
| 105° | 21.7 | 21.9 | 22.2 | 22.4 |
| 107.5° | 97.3 | 82.5 | 67.7 | 52.9 |
| 110° | 188.3 | 172.2 | 156.0 | 139.9 |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 265.7 | 265.4 | 265.2 | 265.0 |
| 115° | 297.7 | 298.1 | 298.6 | 299.1 |
| 117.5° | 326.2 | 326.3 | 326.4 | 326.5 |
| 120° | 355.0 | 355.0 | 355.0 | 355.0 |
| 122.5° | 382.6 | 382.7 | 382.9 | 383.0 |
| 125° | 408.2 | 408.5 | 408.7 | 408.9 |
| 127.5° | 435.0 | 434.8 | 434.6 | 434.3 |
| 130° | 459.4 | 459.2 | 459.0 | 458.7 |
| 132.5° | 482.1 | 481.8 | 481.5 | 481.1 |
| 135° | 505.0 | 504.7 | 504.4 | 504.0 |
| 137.5° | 526.6 | 526.3 | 526.1 | 525.9 |
| 140° | 545.9 | 545.7 | 545.4 | 545.2 |
| 142.5° | 564.0 | 563.7 | 563.4 | 563.0 |
| 145° | 581.3 | 581.3 | 581.3 | 581.3 |
| 147.5° | 596.2 | 595.7 | 595.1 | 594.5 |
| 150° | 610.8 | 610.5 | 610.1 | 609.8 |
| 152.5° | 623.7 | 623.1 | 622.6 | 622.0 |
| 155° | 635.2 | 634.6 | 633.9 | 633.2 |
| 157.5° | 645.6 | 644.7 | 643.8 | 642.9 |
| 160° | 654.4 | 653.6 | 652.8 | 652.0 |
| 162.5° | 662.7 | 662.0 | 661.3 | 660.7 |
| 165° | 669.6 | 668.9 | 668.1 | 667.3 |
| 167.5° | 675.1 | 674.2 | 673.3 | 672.4 |
| 170° | 679.6 | 678.7 | 677.8 | 676.9 |
| 172.5° | 682.5 | 681.5 | 680.5 | 679.5 |
| 175° | 684.7 | 683.8 | 682.9 | 682.0 |
| 177.5° | 685.9 | 684.8 | 683.7 | 682.5 |
| 180° | 684.6 | 684.6 | 684.6 | 684.6 |



TEST NUMBER: P832272

CATALOG NUMBER: S123RDIP-S560D585U940-4F0-1E-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 | 10.78 | 11.59 | 11.74 | 12.56 | 13.82 | 15.44 | 16.26 | 16.40 | 17.22 | 18.49 |
| | 3H | 12.00 | 12.73 | 12.97 | 13.70 | 14.99 | 16.94 | 17.67 | 17.91 | 18.65 | 19.93 |
| | 4H | 12.38 | 13.07 | 13.37 | 14.05 | 15.34 | 17.43 | 18.12 | 18.42 | 19.10 | 20.39 |
| | 6H | 12.66 | 13.29 | 13.66 | 14.28 | 15.59 | 17.74 | 18.37 | 18.74 | 19.36 | 20.67 |
| | 8H | 12.75 | 13.35 | 13.75 | 14.35 | 15.66 | 17.82 | 18.42 | 18.82 | 19.42 | 20.73 |
| | 12H | 12.80 | 13.37 | 13.81 | 14.37 | 15.69 | 17.85 | 18.42 | 18.86 | 19.42 | 20.74 |
| 4H | 2H | 11.50 | 12.19 | 12.49 | 13.17 | 14.46 | 15.43 | 16.12 | 16.43 | 17.10 | 18.40 |
| | 3H | 12.87 | 13.44 | 13.87 | 14.45 | 15.76 | 17.09 | 17.66 | 18.09 | 18.67 | 19.98 |
| | 4H | 13.32 | 13.84 | 14.33 | 14.85 | 16.18 | 17.70 | 18.22 | 18.71 | 19.22 | 20.55 |
| | 6H | 13.69 | 14.14 | 14.71 | 15.16 | 16.49 | 18.13 | 18.58 | 19.15 | 19.61 | 20.94 |
| | 8H | 13.82 | 14.23 | 14.84 | 15.25 | 16.60 | 18.27 | 18.68 | 19.29 | 19.70 | 21.05 |
| | 12H | 13.89 | 14.27 | 14.93 | 15.30 | 16.65 | 18.33 | 18.70 | 19.36 | 19.74 | 21.09 |
| 8H | 4H | 13.63 | 14.05 | 14.66 | 15.07 | 16.42 | 17.66 | 18.08 | 18.68 | 19.10 | 20.44 |
| | 6H | 14.10 | 14.44 | 15.14 | 15.51 | 16.85 | 18.16 | 18.50 | 19.20 | 19.57 | 20.91 |
| | 8H | 14.29 | 14.60 | 15.35 | 15.64 | 17.00 | 18.35 | 18.65 | 19.40 | 19.70 | 21.06 |
| | 12H | 14.43 | 14.70 | 15.49 | 15.74 | 17.14 | 18.46 | 18.73 | 19.52 | 19.77 | 21.17 |
| 12H | 4H | 13.65 | 14.02 | 14.68 | 15.06 | 16.40 | 17.61 | 17.99 | 18.65 | 19.02 | 20.37 |
| | 6H | 14.16 | 14.46 | 15.21 | 15.51 | 16.87 | 18.13 | 18.44 | 19.19 | 19.48 | 20.84 |
| | 8H | 14.38 | 14.64 | 15.43 | 15.68 | 17.09 | 18.33 | 18.59 | 19.38 | 19.63 | 21.04 |