

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: P832284

Luminaire Tested: S123RDIP-S560D805U840-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832284
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-S560D805U840-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

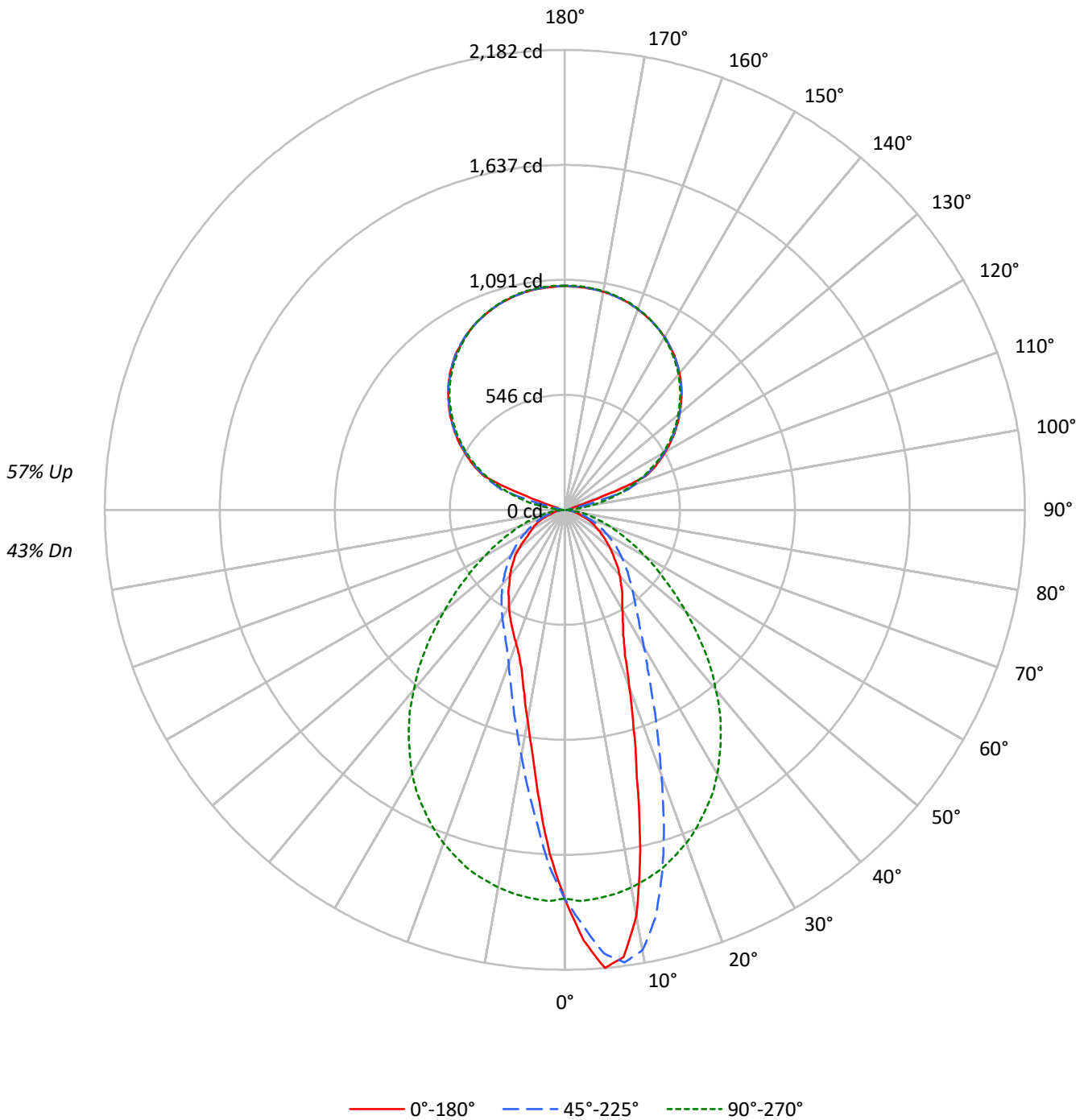
Lumens per Lamp: N/A
Luminaire Lumens: 5687.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 | | | | 43 |
| 1 | 97 | 93 | 89 | 86 | 88 | 85 | 82 | 79 | 71 | 68 | 67 | 57 | 56 | 55 | 45 | 44 | 43 | | | | 38 | |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 51 | 49 | 47 | 40 | 39 | 38 | | | | 33 | |
| 3 | 82 | 73 | 66 | 60 | 74 | 67 | 61 | 56 | 56 | 52 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | | | | 29 | |
| 4 | 75 | 65 | 57 | 52 | 68 | 60 | 53 | 48 | 50 | 46 | 42 | 41 | 38 | 35 | 33 | 31 | 29 | | | | 25 | |
| 5 | 69 | 58 | 51 | 45 | 63 | 54 | 47 | 42 | 45 | 40 | 37 | 38 | 34 | 31 | 30 | 28 | 26 | | | | 23 | |
| 6 | 64 | 53 | 45 | 39 | 59 | 49 | 42 | 37 | 41 | 36 | 32 | 34 | 31 | 28 | 28 | 25 | 23 | | | | 20 | |
| 7 | 59 | 48 | 40 | 35 | 54 | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 | | | | 18 | |
| 8 | 55 | 44 | 36 | 31 | 51 | 41 | 34 | 30 | 35 | 30 | 26 | 29 | 25 | 23 | 24 | 21 | 19 | | | | 17 | |
| 9 | 52 | 40 | 33 | 28 | 47 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 22 | 20 | 18 | | | | 16 | |
| 10 | 48 | 37 | 30 | 25 | 44 | 34 | 28 | 24 | 30 | 25 | 22 | 25 | 22 | 19 | 21 | 18 | 16 | | | | 14 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 19853 | 19853 | 19853 | 19853 | 19853 |
| 5° | 23573 | 22821 | 19977 | 16149 | 14993 |
| 10° | 21357 | 23180 | 19878 | 12939 | 11100 |
| 15° | 14705 | 19875 | 19668 | 10575 | 8781 |
| 20° | 10230 | 15301 | 19274 | 8917 | 7718 |
| 25° | 7796 | 11662 | 18699 | 7926 | 7113 |
| 30° | 6786 | 9324 | 17980 | 7359 | 6589 |
| 35° | 6230 | 7864 | 16962 | 6882 | 6112 |
| 40° | 5685 | 7024 | 15631 | 6413 | 5674 |
| 45° | 5135 | 6424 | 14193 | 5969 | 5238 |
| 50° | 4660 | 5926 | 12499 | 5534 | 4699 |
| 55° | 4215 | 5442 | 10871 | 5108 | 4031 |
| 60° | 3776 | 4949 | 9442 | 4639 | 3810 |
| 65° | 3487 | 4391 | 8127 | 4169 | 3601 |
| 70° | 2832 | 3795 | 7091 | 3773 | 2927 |
| 75° | 2483 | 3019 | 6005 | 3127 | 2578 |
| 80° | 2250 | 2554 | 4922 | 2622 | 2436 |
| 85° | 2050 | 2235 | 3730 | 2384 | 2235 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 14976 cd/sqm



TEST NUMBER: P832284

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.1 | 3.0 |
| 10°-20° | 389.0 | 6.8 |
| 20°-30° | 446.3 | 7.8 |
| 30°-40° | 439.9 | 7.7 |
| 40°-50° | 388.0 | 6.8 |
| 50°-60° | 298.5 | 5.2 |
| 60°-70° | 196.2 | 3.5 |
| 70°-80° | 95.3 | 1.7 |
| 80°-90° | 26.1 | 0.5 |
| 90°-100° | 37.5 | 0.7 |
| 100°-110° | 181.1 | 3.2 |
| 110°-120° | 444.0 | 7.8 |
| 120°-130° | 563.6 | 9.9 |
| 130°-140° | 602.1 | 10.6 |
| 140°-150° | 563.0 | 9.9 |
| 150°-160° | 454.1 | 8.0 |
| 160°-170° | 293.1 | 5.2 |
| 170°-180° | 101.0 | 1.8 |
| 0°-30° | 1003.5 | 17.6 |
| 0°-40° | 1443.4 | 25.4 |
| 0°-60° | 2129.8 | 37.5 |
| 0°-90° | 2447.5 | 43.0 |
| 90°-120° | 662.5 | 11.7 |
| 90°-150° | 2391.3 | 42.0 |
| 90°-180° | 3240.0 | 57.0 |
| 0°-180° | 5687.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1844 | 1844 | 1844 | 1844 | 1844 | |
| 5° | 2182 | 2112 | 1849 | 1495 | 1388 | 199 |
| 15° | 1320 | 1784 | 1765 | 949 | 788 | 372 |
| 25° | 656 | 982 | 1574 | 667 | 599 | 310 |
| 35° | 474 | 598 | 1291 | 524 | 465 | 296 |
| 45° | 337 | 422 | 932 | 392 | 344 | 262 |
| 55° | 225 | 290 | 579 | 272 | 215 | 201 |
| 65° | 137 | 172 | 319 | 164 | 141 | 134 |
| 75° | 60 | 73 | 144 | 75 | 62 | 64 |
| 85° | 17 | 18 | 30 | 19 | 18 | 18 |
| 90° | 24 | 19 | 1 | 19 | 24 | 11 |
| 95° | 30 | 24 | 48 | 24 | 30 | 25 |
| 105° | 35 | 173 | 235 | 173 | 35 | 72 |
| 115° | 464 | 453 | 441 | 453 | 464 | 437 |
| 125° | 635 | 632 | 622 | 632 | 635 | 567 |
| 135° | 782 | 782 | 774 | 782 | 782 | 604 |
| 145° | 902 | 901 | 894 | 901 | 902 | 564 |
| 155° | 983 | 984 | 984 | 984 | 983 | 453 |
| 165° | 1036 | 1035 | 1038 | 1035 | 1036 | 293 |
| 175° | 1059 | 1060 | 1063 | 1060 | 1059 | 101 |
| 180° | 1063 | 1063 | 1063 | 1063 | 1063 | |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 |
| 2.5° | 2044.0 | 2037.6 | 2031.2 | 2029.3 | 2027.4 | 2021.3 | 2015.3 | 2001.7 | 1988.1 | 1974.1 | 1960.1 |
| 5° | 2181.7 | 2182.4 | 2183.2 | 2181.3 | 2179.4 | 2171.4 | 2163.5 | 2146.9 | 2130.2 | 2112.1 | 2093.9 |
| 7.5° | 2139.3 | 2151.4 | 2163.5 | 2165.8 | 2168.0 | 2174.1 | 2180.1 | 2176.4 | 2172.6 | 2165.8 | 2159.0 |
| 10° | 1954.0 | 1953.3 | 1952.5 | 1966.1 | 1979.7 | 2020.2 | 2060.7 | 2081.5 | 2102.2 | 2120.8 | 2139.3 |
| 12.5° | 1651.6 | 1652.7 | 1653.8 | 1698.4 | 1743.1 | 1781.2 | 1819.4 | 1872.4 | 1925.3 | 1982.4 | 2039.5 |
| 15° | 1319.6 | 1338.1 | 1356.6 | 1396.3 | 1436.0 | 1493.5 | 1551.0 | 1622.1 | 1693.1 | 1783.5 | 1873.9 |
| 17.5° | 1083.6 | 1091.6 | 1099.5 | 1137.7 | 1175.9 | 1230.3 | 1284.8 | 1365.3 | 1445.9 | 1562.3 | 1678.8 |
| 20° | 893.1 | 900.3 | 907.4 | 935.0 | 962.6 | 1014.8 | 1067.0 | 1143.8 | 1220.5 | 1335.8 | 1451.2 |
| 22.5° | 745.6 | 759.6 | 773.6 | 792.1 | 810.7 | 848.5 | 886.3 | 964.5 | 1042.8 | 1147.9 | 1253.0 |
| 25° | 656.4 | 662.8 | 669.2 | 685.1 | 701.0 | 737.3 | 773.6 | 825.4 | 877.2 | 981.9 | 1086.7 |
| 27.5° | 595.9 | 597.8 | 599.7 | 611.4 | 623.1 | 646.6 | 670.0 | 718.0 | 766.0 | 852.2 | 938.5 |
| 30° | 546.0 | 549.4 | 552.8 | 561.9 | 570.9 | 587.9 | 605.0 | 639.0 | 673.0 | 750.2 | 827.3 |
| 32.5° | 507.4 | 509.3 | 511.2 | 518.8 | 526.3 | 538.8 | 551.3 | 578.1 | 605.0 | 663.9 | 722.9 |
| 35° | 474.1 | 474.5 | 474.9 | 480.6 | 486.2 | 498.3 | 510.4 | 532.7 | 555.1 | 598.5 | 642.0 |
| 37.5° | 436.3 | 439.0 | 441.6 | 445.8 | 449.9 | 460.5 | 471.1 | 489.3 | 507.4 | 543.3 | 579.3 |
| 40° | 404.6 | 406.8 | 409.1 | 414.0 | 418.9 | 427.3 | 435.6 | 452.2 | 468.8 | 499.9 | 530.9 |
| 42.5° | 372.8 | 374.3 | 375.8 | 380.7 | 385.7 | 395.9 | 406.1 | 419.3 | 432.5 | 458.3 | 484.0 |
| 45° | 337.3 | 341.0 | 344.8 | 350.1 | 355.4 | 364.1 | 372.8 | 386.4 | 400.0 | 422.0 | 443.9 |
| 47.5° | 307.8 | 309.7 | 311.6 | 316.1 | 320.6 | 331.2 | 341.8 | 353.9 | 366.0 | 386.4 | 406.8 |
| 50° | 278.3 | 279.0 | 279.8 | 284.0 | 288.1 | 297.6 | 307.0 | 321.0 | 335.0 | 353.9 | 372.8 |
| 52.5° | 250.3 | 252.2 | 254.1 | 258.2 | 262.4 | 268.8 | 275.3 | 289.6 | 304.0 | 322.5 | 341.0 |
| 55° | 224.6 | 225.7 | 226.9 | 229.9 | 232.9 | 240.5 | 248.0 | 260.5 | 273.0 | 290.0 | 307.0 |
| 57.5° | 200.4 | 201.9 | 203.4 | 205.7 | 208.0 | 214.8 | 221.6 | 232.5 | 243.5 | 260.5 | 277.5 |
| 60° | 175.4 | 177.3 | 179.2 | 181.9 | 184.5 | 189.8 | 195.1 | 204.9 | 214.8 | 229.9 | 245.0 |
| 62.5° | 157.3 | 157.7 | 158.0 | 160.3 | 162.6 | 166.4 | 170.1 | 178.1 | 186.0 | 201.2 | 216.3 |
| 65° | 136.9 | 138.0 | 139.1 | 140.3 | 141.4 | 144.4 | 147.5 | 154.3 | 161.1 | 172.4 | 183.8 |
| 67.5° | 115.7 | 116.8 | 118.0 | 119.9 | 121.7 | 124.4 | 127.0 | 131.6 | 136.1 | 146.7 | 157.3 |
| 70° | 90.0 | 90.0 | 90.0 | 93.0 | 96.0 | 100.6 | 105.1 | 108.5 | 111.9 | 120.6 | 129.3 |
| 72.5° | 73.4 | 73.7 | 74.1 | 74.5 | 74.9 | 77.5 | 80.2 | 85.8 | 91.5 | 96.8 | 102.1 |
| 75° | 59.7 | 60.1 | 60.5 | 60.9 | 61.3 | 62.0 | 62.8 | 64.7 | 66.5 | 72.6 | 78.6 |
| 77.5° | 47.6 | 48.0 | 48.4 | 48.8 | 49.2 | 49.9 | 50.7 | 51.4 | 52.2 | 54.4 | 56.7 |
| 80° | 36.3 | 36.7 | 37.1 | 37.4 | 37.8 | 38.2 | 38.6 | 39.3 | 40.1 | 41.2 | 42.3 |
| 82.5° | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 27.2 | 28.0 | 28.0 | 28.0 | 28.7 | 29.5 |
| 85° | 16.6 | 16.6 | 16.6 | 17.0 | 17.4 | 17.4 | 17.4 | 17.8 | 18.1 | 18.1 | 18.1 |
| 87.5° | 7.6 | 7.2 | 6.8 | 7.2 | 7.6 | 7.6 | 7.6 | 7.9 | 8.3 | 8.3 | 8.3 |
| 90° | 23.7 | 23.3 | 23.0 | 22.6 | 22.3 | 21.8 | 21.1 | 20.4 | 19.6 | 18.9 | 16.7 |
| 92.5° | 26.8 | 26.7 | 26.5 | 26.3 | 26.1 | 25.4 | 24.2 | 23.0 | 21.8 | 20.5 | 18.9 |
| 95° | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 29.4 | 28.2 | 26.9 | 25.7 | 24.5 | 22.5 |
| 97.5° | 32.4 | 32.2 | 32.0 | 31.8 | 31.7 | 30.9 | 29.5 | 28.1 | 26.7 | 25.3 | 34.2 |
| 100° | 33.2 | 33.0 | 32.8 | 32.6 | 32.5 | 31.7 | 30.3 | 28.9 | 27.5 | 26.1 | 53.4 |
| 102.5° | 33.9 | 33.6 | 33.2 | 32.9 | 32.5 | 35.3 | 41.1 | 46.8 | 52.6 | 58.4 | 89.0 |
| 105° | 34.7 | 34.4 | 34.0 | 33.7 | 33.3 | 48.7 | 79.7 | 110.8 | 141.8 | 172.9 | 188.7 |
| 107.5° | 82.1 | 105.1 | 128.1 | 151.1 | 174.0 | 199.0 | 226.1 | 253.1 | 280.1 | 307.1 | 304.5 |
| 110° | 217.1 | 242.2 | 267.3 | 292.4 | 317.5 | 332.9 | 338.7 | 344.5 | 350.3 | 356.1 | 354.1 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 411.3 | 411.7 | 412.0 | 412.4 | 412.7 | 412.1 | 410.5 | 409.0 | 407.4 | 405.8 | 403.9 |
| 115° | 464.2 | 463.5 | 462.8 | 462.1 | 461.4 | 460.2 | 458.4 | 456.7 | 454.9 | 453.2 | 451.6 |
| 117.5° | 506.9 | 506.7 | 506.5 | 506.3 | 506.2 | 505.4 | 504.0 | 502.6 | 501.2 | 499.8 | 498.9 |
| 120° | 551.1 | 551.1 | 551.1 | 551.1 | 551.1 | 550.4 | 549.0 | 547.6 | 546.2 | 544.8 | 544.2 |
| 122.5° | 594.5 | 594.3 | 594.1 | 594.0 | 593.8 | 593.3 | 592.4 | 591.5 | 590.6 | 589.8 | 589.1 |
| 125° | 634.8 | 634.4 | 634.1 | 633.7 | 633.4 | 633.0 | 632.7 | 632.3 | 632.0 | 631.6 | 630.9 |
| 127.5° | 674.2 | 674.6 | 674.9 | 675.3 | 675.6 | 675.6 | 675.0 | 674.5 | 674.0 | 673.4 | 672.6 |
| 130° | 712.1 | 712.5 | 712.8 | 713.2 | 713.5 | 713.4 | 712.7 | 712.0 | 711.3 | 710.6 | 709.9 |
| 132.5° | 746.9 | 747.4 | 747.9 | 748.5 | 749.0 | 748.9 | 748.2 | 747.5 | 746.8 | 746.1 | 745.6 |
| 135° | 782.4 | 782.9 | 783.5 | 784.0 | 784.5 | 784.5 | 784.0 | 783.5 | 782.9 | 782.4 | 781.7 |
| 137.5° | 816.4 | 816.7 | 817.1 | 817.4 | 817.8 | 817.5 | 816.6 | 815.7 | 814.9 | 814.0 | 813.6 |
| 140° | 846.4 | 846.7 | 847.1 | 847.4 | 847.8 | 847.6 | 846.9 | 846.2 | 845.5 | 844.8 | 844.2 |
| 142.5° | 874.0 | 874.5 | 875.0 | 875.6 | 876.1 | 876.1 | 875.6 | 875.0 | 874.5 | 874.0 | 873.5 |
| 145° | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 | 902.2 | 901.9 | 901.5 | 901.2 | 900.8 | 900.5 |
| 147.5° | 922.9 | 923.8 | 924.7 | 925.6 | 926.4 | 926.7 | 926.4 | 926.0 | 925.7 | 925.3 | 925.0 |
| 150° | 946.6 | 947.1 | 947.7 | 948.2 | 948.7 | 948.8 | 948.5 | 948.1 | 947.8 | 947.4 | 947.1 |
| 152.5° | 965.6 | 966.4 | 967.3 | 968.2 | 969.1 | 969.2 | 968.5 | 967.8 | 967.1 | 966.4 | 966.2 |
| 155° | 982.9 | 984.0 | 985.0 | 986.1 | 987.1 | 987.2 | 986.4 | 985.5 | 984.6 | 983.7 | 983.6 |
| 157.5° | 997.9 | 999.3 | 1000.7 | 1002.1 | 1003.6 | 1003.7 | 1002.7 | 1001.6 | 1000.6 | 999.5 | 999.7 |
| 160° | 1012.1 | 1013.4 | 1014.6 | 1015.8 | 1017.1 | 1017.1 | 1016.1 | 1015.0 | 1014.0 | 1012.9 | 1013.1 |
| 162.5° | 1025.6 | 1026.6 | 1027.7 | 1028.7 | 1029.8 | 1029.7 | 1028.5 | 1027.2 | 1026.0 | 1024.8 | 1025.0 |
| 165° | 1035.8 | 1037.1 | 1038.3 | 1039.5 | 1040.7 | 1040.7 | 1039.3 | 1037.9 | 1036.4 | 1035.0 | 1035.2 |
| 167.5° | 1043.7 | 1045.1 | 1046.5 | 1047.9 | 1049.3 | 1049.3 | 1047.9 | 1046.5 | 1045.1 | 1043.7 | 1043.7 |
| 170° | 1050.8 | 1052.2 | 1053.6 | 1055.0 | 1056.4 | 1056.4 | 1055.0 | 1053.6 | 1052.2 | 1050.8 | 1050.8 |
| 172.5° | 1054.8 | 1056.4 | 1057.9 | 1059.5 | 1061.1 | 1061.2 | 1059.8 | 1058.4 | 1057.0 | 1055.6 | 1055.4 |
| 175° | 1058.7 | 1060.1 | 1061.5 | 1062.9 | 1064.3 | 1064.4 | 1063.2 | 1062.0 | 1060.7 | 1059.5 | 1059.3 |
| 177.5° | 1059.5 | 1061.3 | 1063.0 | 1064.8 | 1066.5 | 1066.7 | 1065.3 | 1063.9 | 1062.5 | 1061.1 | 1060.9 |
| 180° | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 |
| 2.5° | 1958.2 | 1956.3 | 1938.2 | 1920.0 | 1902.2 | 1884.5 | 1871.2 | 1858.0 | 1835.7 | 1813.4 | 1799.4 |
| 5° | 2079.6 | 2065.2 | 2036.5 | 2007.7 | 1964.6 | 1921.5 | 1885.2 | 1848.9 | 1802.8 | 1756.7 | 1718.1 |
| 7.5° | 2147.2 | 2135.5 | 2100.7 | 2066.0 | 2008.9 | 1951.8 | 1895.0 | 1838.3 | 1770.3 | 1702.2 | 1644.0 |
| 10° | 2149.1 | 2159.0 | 2130.2 | 2101.5 | 2037.2 | 1972.9 | 1895.8 | 1818.7 | 1727.2 | 1635.7 | 1560.4 |
| 12.5° | 2081.8 | 2124.2 | 2118.1 | 2112.1 | 2046.7 | 1981.3 | 1887.5 | 1793.7 | 1681.4 | 1569.1 | 1475.0 |
| 15° | 1955.9 | 2038.0 | 2062.2 | 2086.4 | 2032.3 | 1978.2 | 1871.6 | 1765.0 | 1633.0 | 1501.1 | 1392.9 |
| 17.5° | 1793.7 | 1908.7 | 1972.6 | 2036.5 | 1997.1 | 1957.8 | 1841.0 | 1724.1 | 1575.6 | 1427.0 | 1309.4 |
| 20° | 1601.6 | 1752.1 | 1852.3 | 1952.5 | 1938.2 | 1923.8 | 1803.2 | 1682.6 | 1522.2 | 1361.9 | 1234.5 |
| 22.5° | 1411.8 | 1570.6 | 1709.0 | 1847.4 | 1862.2 | 1876.9 | 1755.2 | 1633.4 | 1458.0 | 1282.5 | 1152.8 |
| 25° | 1248.1 | 1409.6 | 1574.4 | 1739.3 | 1772.5 | 1805.8 | 1690.1 | 1574.4 | 1392.6 | 1210.7 | 1081.8 |
| 27.5° | 1092.0 | 1245.5 | 1427.0 | 1608.4 | 1668.9 | 1729.4 | 1623.6 | 1517.7 | 1328.3 | 1138.8 | 1010.3 |
| 30° | 964.5 | 1101.8 | 1287.1 | 1472.3 | 1556.6 | 1641.0 | 1543.8 | 1446.6 | 1258.7 | 1070.8 | 944.9 |
| 32.5° | 845.8 | 968.7 | 1154.7 | 1340.8 | 1438.7 | 1536.6 | 1452.7 | 1368.7 | 1188.0 | 1007.3 | 882.9 |
| 35° | 752.0 | 862.1 | 1035.6 | 1209.2 | 1318.8 | 1428.5 | 1359.7 | 1290.8 | 1114.3 | 937.7 | 820.1 |
| 37.5° | 671.5 | 763.8 | 926.7 | 1089.7 | 1206.1 | 1322.6 | 1265.1 | 1207.7 | 1041.7 | 875.7 | 764.5 |
| 40° | 605.0 | 679.1 | 830.7 | 982.3 | 1096.5 | 1210.7 | 1161.5 | 1112.4 | 963.8 | 815.2 | 711.2 |
| 42.5° | 547.9 | 611.8 | 747.9 | 884.0 | 988.7 | 1093.5 | 1061.0 | 1028.4 | 893.8 | 759.2 | 662.8 |
| 45° | 497.6 | 551.3 | 671.1 | 791.0 | 887.4 | 983.8 | 958.1 | 932.4 | 816.3 | 700.2 | 611.8 |
| 47.5° | 453.0 | 499.1 | 606.1 | 713.1 | 799.7 | 886.3 | 862.5 | 838.6 | 742.6 | 646.6 | 566.0 |
| 50° | 412.1 | 451.5 | 540.7 | 629.9 | 707.8 | 785.7 | 766.0 | 746.4 | 667.0 | 587.6 | 518.0 |
| 52.5° | 373.6 | 406.1 | 486.2 | 566.4 | 629.2 | 691.9 | 676.8 | 661.7 | 600.4 | 539.2 | 476.0 |
| 55° | 336.9 | 366.8 | 434.4 | 502.1 | 555.8 | 609.5 | 594.4 | 579.3 | 531.6 | 484.0 | 428.4 |
| 57.5° | 303.6 | 329.7 | 384.5 | 439.4 | 482.1 | 524.8 | 517.6 | 510.4 | 470.7 | 431.0 | 385.3 |
| 60° | 268.5 | 291.9 | 339.2 | 386.4 | 420.8 | 455.2 | 446.9 | 438.6 | 410.2 | 381.9 | 342.6 |
| 62.5° | 237.1 | 257.9 | 295.7 | 333.5 | 361.5 | 389.4 | 383.4 | 377.3 | 355.8 | 334.2 | 301.7 |
| 65° | 204.2 | 224.6 | 255.2 | 285.8 | 307.8 | 329.7 | 324.4 | 319.1 | 302.9 | 286.6 | 260.5 |
| 67.5° | 174.3 | 191.3 | 217.8 | 244.3 | 259.0 | 273.7 | 270.7 | 267.7 | 255.2 | 242.7 | 222.3 |
| 70° | 144.1 | 158.8 | 180.7 | 202.7 | 212.9 | 223.1 | 224.2 | 225.3 | 214.0 | 202.7 | 187.5 |
| 72.5° | 113.8 | 125.5 | 145.9 | 166.4 | 174.3 | 182.2 | 181.9 | 181.5 | 174.7 | 167.9 | 154.3 |
| 75° | 87.3 | 96.0 | 111.9 | 127.8 | 134.6 | 141.4 | 142.9 | 144.4 | 138.0 | 131.6 | 124.0 |
| 77.5° | 62.8 | 68.8 | 80.9 | 93.0 | 100.6 | 108.1 | 108.9 | 109.6 | 106.6 | 103.6 | 96.4 |
| 80° | 44.2 | 46.1 | 53.7 | 61.3 | 69.2 | 77.1 | 78.3 | 79.4 | 76.4 | 73.4 | 68.8 |
| 82.5° | 30.6 | 31.8 | 34.4 | 37.1 | 43.5 | 49.9 | 51.4 | 52.9 | 51.4 | 49.9 | 45.0 |
| 85° | 18.5 | 18.9 | 20.0 | 21.2 | 24.2 | 27.2 | 28.7 | 30.2 | 29.5 | 28.7 | 26.1 |
| 87.5° | 8.3 | 8.3 | 8.7 | 9.1 | 9.8 | 10.6 | 12.5 | 14.4 | 13.2 | 12.1 | 11.0 |
| 90° | 14.4 | 12.1 | 9.8 | 7.8 | 6.1 | 4.3 | 2.5 | 0.8 | 2.5 | 4.3 | 6.1 |
| 92.5° | 17.4 | 15.8 | 14.2 | 13.9 | 15.0 | 16.1 | 17.1 | 18.2 | 17.1 | 16.1 | 15.0 |
| 95° | 20.6 | 18.7 | 16.8 | 19.4 | 26.6 | 33.8 | 41.0 | 48.2 | 41.0 | 33.8 | 26.6 |
| 97.5° | 43.2 | 52.1 | 61.1 | 68.0 | 72.9 | 77.8 | 82.7 | 87.6 | 82.7 | 77.8 | 72.9 |
| 100° | 80.8 | 108.2 | 135.5 | 147.5 | 144.0 | 140.4 | 136.9 | 133.4 | 136.9 | 140.4 | 144.0 |
| 102.5° | 119.5 | 150.0 | 180.5 | 194.7 | 192.4 | 190.1 | 187.8 | 185.5 | 187.8 | 190.1 | 192.4 |
| 105° | 204.5 | 220.3 | 236.1 | 243.0 | 241.1 | 239.1 | 237.2 | 235.3 | 237.2 | 239.1 | 241.1 |
| 107.5° | 301.9 | 299.2 | 296.6 | 294.5 | 292.9 | 291.3 | 289.7 | 288.2 | 289.7 | 291.3 | 292.9 |
| 110° | 352.2 | 350.3 | 348.3 | 346.7 | 345.3 | 343.9 | 342.5 | 341.1 | 342.5 | 343.9 | 345.3 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 401.9 | 400.0 | 398.1 | 396.5 | 395.3 | 394.1 | 392.8 | 391.6 | 392.8 | 394.1 | 395.3 |
| 115° | 450.0 | 448.4 | 446.9 | 445.5 | 444.5 | 443.4 | 442.4 | 441.3 | 442.4 | 443.4 | 444.5 |
| 117.5° | 498.0 | 497.1 | 496.2 | 495.2 | 494.0 | 492.7 | 491.5 | 490.3 | 491.5 | 492.7 | 494.0 |
| 120° | 543.7 | 543.2 | 542.7 | 541.6 | 540.0 | 538.4 | 536.9 | 535.3 | 536.9 | 538.4 | 540.0 |
| 122.5° | 588.4 | 587.7 | 587.0 | 586.0 | 584.8 | 583.5 | 582.3 | 581.1 | 582.3 | 583.5 | 584.8 |
| 125° | 630.2 | 629.5 | 628.8 | 627.7 | 626.3 | 624.9 | 623.5 | 622.1 | 623.5 | 624.9 | 626.3 |
| 127.5° | 671.7 | 670.8 | 669.9 | 668.8 | 667.4 | 666.0 | 664.6 | 663.2 | 664.6 | 666.0 | 667.4 |
| 130° | 709.2 | 708.5 | 707.7 | 706.7 | 705.3 | 703.9 | 702.5 | 701.1 | 702.5 | 703.9 | 705.3 |
| 132.5° | 745.0 | 744.5 | 744.0 | 743.0 | 741.6 | 740.2 | 738.8 | 737.4 | 738.8 | 740.2 | 741.6 |
| 135° | 781.0 | 780.3 | 779.6 | 778.7 | 777.7 | 776.6 | 775.6 | 774.5 | 775.6 | 776.6 | 777.7 |
| 137.5° | 813.3 | 812.9 | 812.6 | 811.7 | 810.3 | 808.9 | 807.5 | 806.1 | 807.5 | 808.9 | 810.3 |
| 140° | 843.7 | 843.2 | 842.7 | 841.9 | 840.8 | 839.8 | 838.7 | 837.7 | 838.7 | 839.8 | 840.8 |
| 142.5° | 872.9 | 872.4 | 871.9 | 871.1 | 870.0 | 869.0 | 867.9 | 866.9 | 867.9 | 869.0 | 870.0 |
| 145° | 900.1 | 899.8 | 899.4 | 898.6 | 897.4 | 896.2 | 895.0 | 893.7 | 895.0 | 896.2 | 897.4 |
| 147.5° | 924.6 | 924.2 | 923.9 | 923.3 | 922.4 | 921.5 | 920.7 | 919.8 | 920.7 | 921.5 | 922.4 |
| 150° | 946.7 | 946.4 | 946.0 | 945.6 | 945.0 | 944.5 | 944.0 | 943.5 | 944.0 | 944.5 | 945.0 |
| 152.5° | 966.0 | 965.8 | 965.7 | 965.5 | 965.3 | 965.1 | 965.0 | 964.8 | 965.0 | 965.1 | 965.3 |
| 155° | 983.4 | 983.2 | 983.0 | 983.1 | 983.5 | 983.8 | 984.2 | 984.5 | 984.2 | 983.8 | 983.5 |
| 157.5° | 999.9 | 1000.0 | 1000.2 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 |
| 160° | 1013.3 | 1013.5 | 1013.6 | 1013.8 | 1014.0 | 1014.2 | 1014.3 | 1014.5 | 1014.3 | 1014.2 | 1014.0 |
| 162.5° | 1025.1 | 1025.3 | 1025.5 | 1025.8 | 1026.4 | 1026.9 | 1027.4 | 1027.9 | 1027.4 | 1026.9 | 1026.4 |
| 165° | 1035.4 | 1035.6 | 1035.7 | 1036.1 | 1036.6 | 1037.1 | 1037.7 | 1038.2 | 1037.7 | 1037.1 | 1036.6 |
| 167.5° | 1043.7 | 1043.7 | 1043.7 | 1044.1 | 1044.8 | 1045.5 | 1046.2 | 1046.9 | 1046.2 | 1045.5 | 1044.8 |
| 170° | 1050.8 | 1050.8 | 1050.8 | 1051.2 | 1051.9 | 1052.6 | 1053.3 | 1054.0 | 1053.3 | 1052.6 | 1051.9 |
| 172.5° | 1055.2 | 1055.0 | 1054.9 | 1055.2 | 1056.1 | 1057.0 | 1057.9 | 1058.7 | 1057.9 | 1057.0 | 1056.1 |
| 175° | 1059.2 | 1059.0 | 1058.8 | 1059.2 | 1060.0 | 1060.9 | 1061.8 | 1062.7 | 1061.8 | 1060.9 | 1060.0 |
| 177.5° | 1060.7 | 1060.6 | 1060.4 | 1060.7 | 1061.6 | 1062.5 | 1063.4 | 1064.3 | 1063.4 | 1062.5 | 1061.6 |
| 180° | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 | 1844.4 |
| 2.5° | 1785.4 | 1763.8 | 1742.3 | 1726.8 | 1711.3 | 1692.0 | 1672.7 | 1672.0 | 1671.2 | 1656.8 | 1642.5 |
| 5° | 1679.5 | 1642.1 | 1604.7 | 1568.0 | 1531.3 | 1494.6 | 1458.0 | 1449.6 | 1441.3 | 1428.8 | 1416.4 |
| 7.5° | 1585.8 | 1526.0 | 1466.3 | 1419.4 | 1372.5 | 1335.8 | 1299.2 | 1274.2 | 1249.3 | 1230.0 | 1210.7 |
| 10° | 1485.2 | 1411.1 | 1337.0 | 1280.3 | 1223.5 | 1183.8 | 1144.1 | 1115.4 | 1086.7 | 1073.1 | 1059.4 |
| 12.5° | 1380.8 | 1300.3 | 1219.8 | 1164.2 | 1108.6 | 1061.0 | 1013.3 | 987.2 | 961.1 | 942.2 | 923.3 |
| 15° | 1284.8 | 1198.2 | 1111.6 | 1052.6 | 993.7 | 949.0 | 904.4 | 878.3 | 852.2 | 833.3 | 814.4 |
| 17.5° | 1191.8 | 1104.4 | 1017.1 | 957.4 | 897.6 | 857.2 | 816.7 | 791.4 | 766.0 | 754.3 | 742.6 |
| 20° | 1107.1 | 1019.0 | 930.9 | 874.6 | 818.2 | 778.5 | 738.8 | 725.2 | 711.6 | 700.6 | 689.7 |
| 22.5° | 1023.1 | 938.5 | 853.8 | 799.7 | 745.6 | 716.9 | 688.1 | 677.2 | 666.2 | 657.9 | 649.6 |
| 25° | 952.8 | 868.5 | 784.2 | 736.9 | 689.7 | 667.4 | 645.0 | 637.9 | 630.7 | 622.4 | 614.0 |
| 27.5° | 881.7 | 801.6 | 721.4 | 683.6 | 645.8 | 627.7 | 609.5 | 600.4 | 591.4 | 584.5 | 577.7 |
| 30° | 819.0 | 744.9 | 670.8 | 639.4 | 608.0 | 592.1 | 576.2 | 566.4 | 556.6 | 550.1 | 543.7 |
| 32.5° | 758.5 | 692.7 | 626.9 | 600.0 | 573.2 | 557.7 | 542.2 | 532.7 | 523.3 | 515.7 | 508.2 |
| 35° | 702.5 | 645.4 | 588.3 | 563.8 | 539.2 | 523.7 | 508.2 | 498.7 | 489.3 | 481.7 | 474.1 |
| 37.5° | 653.4 | 601.6 | 549.8 | 526.7 | 503.6 | 490.0 | 476.4 | 466.6 | 456.7 | 448.8 | 440.9 |
| 40° | 607.2 | 561.5 | 515.7 | 493.4 | 471.1 | 456.4 | 441.6 | 432.9 | 424.2 | 417.0 | 409.9 |
| 42.5° | 566.4 | 524.4 | 482.5 | 460.5 | 438.6 | 424.6 | 410.6 | 400.4 | 390.2 | 386.0 | 381.9 |
| 45° | 523.3 | 486.2 | 449.2 | 428.0 | 406.8 | 392.1 | 377.3 | 368.6 | 360.0 | 356.2 | 352.4 |
| 47.5° | 485.5 | 451.1 | 416.7 | 395.9 | 375.1 | 361.8 | 348.6 | 341.8 | 335.0 | 329.7 | 324.4 |
| 50° | 448.4 | 415.2 | 381.9 | 361.8 | 341.8 | 330.5 | 319.1 | 310.8 | 302.5 | 298.7 | 294.9 |
| 52.5° | 412.9 | 382.6 | 352.4 | 332.0 | 311.6 | 300.6 | 289.6 | 282.4 | 275.3 | 267.3 | 259.4 |
| 55° | 372.8 | 346.3 | 319.9 | 301.7 | 283.6 | 272.2 | 260.9 | 252.6 | 244.3 | 235.9 | 227.6 |
| 57.5° | 339.5 | 313.4 | 287.4 | 271.1 | 254.8 | 243.9 | 232.9 | 223.8 | 214.8 | 208.0 | 201.2 |
| 60° | 303.2 | 280.6 | 257.9 | 242.0 | 226.1 | 215.5 | 204.9 | 196.2 | 187.5 | 184.1 | 180.7 |
| 62.5° | 269.2 | 248.0 | 226.9 | 212.9 | 198.9 | 188.7 | 178.5 | 172.8 | 167.1 | 164.9 | 162.6 |
| 65° | 234.4 | 216.3 | 198.1 | 185.3 | 172.4 | 163.7 | 155.0 | 152.4 | 149.7 | 147.8 | 145.9 |
| 67.5° | 201.9 | 186.4 | 170.9 | 159.6 | 148.2 | 142.2 | 136.1 | 133.1 | 130.1 | 127.8 | 125.5 |
| 70° | 172.4 | 158.8 | 145.2 | 135.4 | 125.5 | 119.9 | 114.2 | 111.5 | 108.9 | 104.7 | 100.6 |
| 72.5° | 140.7 | 130.1 | 119.5 | 111.9 | 104.4 | 99.4 | 94.5 | 89.2 | 83.9 | 80.2 | 76.4 |
| 75° | 116.5 | 105.9 | 95.3 | 88.1 | 80.9 | 75.2 | 69.6 | 67.7 | 65.8 | 64.7 | 63.5 |
| 77.5° | 89.2 | 80.2 | 71.1 | 65.4 | 59.7 | 57.1 | 54.4 | 53.3 | 52.2 | 51.8 | 51.4 |
| 80° | 64.3 | 56.7 | 49.2 | 46.1 | 43.1 | 42.3 | 41.6 | 40.8 | 40.1 | 39.7 | 39.3 |
| 82.5° | 40.1 | 36.3 | 32.5 | 31.8 | 31.0 | 30.6 | 30.2 | 29.9 | 29.5 | 29.1 | 28.7 |
| 85° | 23.4 | 21.9 | 20.4 | 20.0 | 19.7 | 19.3 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 |
| 87.5° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.5 | 9.1 |
| 90° | 7.8 | 9.8 | 12.1 | 14.4 | 16.7 | 18.9 | 19.6 | 20.4 | 21.1 | 21.8 | 22.3 |
| 92.5° | 13.9 | 14.2 | 15.8 | 17.4 | 18.9 | 20.5 | 21.8 | 23.0 | 24.2 | 25.4 | 26.1 |
| 95° | 19.4 | 16.8 | 18.7 | 20.6 | 22.5 | 24.5 | 25.7 | 26.9 | 28.2 | 29.4 | 30.0 |
| 97.5° | 68.0 | 61.1 | 52.1 | 43.2 | 34.2 | 25.3 | 26.7 | 28.1 | 29.5 | 30.9 | 31.7 |
| 100° | 147.5 | 135.5 | 108.2 | 80.8 | 53.4 | 26.1 | 27.5 | 28.9 | 30.3 | 31.7 | 32.5 |
| 102.5° | 194.7 | 180.5 | 150.0 | 119.5 | 89.0 | 58.4 | 52.6 | 46.8 | 41.1 | 35.3 | 32.5 |
| 105° | 243.0 | 236.1 | 220.3 | 204.5 | 188.7 | 172.9 | 141.8 | 110.8 | 79.7 | 48.7 | 33.3 |
| 107.5° | 294.5 | 296.6 | 299.2 | 301.9 | 304.5 | 307.1 | 280.1 | 253.1 | 226.1 | 199.0 | 174.0 |
| 110° | 346.7 | 348.3 | 350.3 | 352.2 | 354.1 | 356.1 | 350.3 | 344.5 | 338.7 | 332.9 | 317.5 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 396.5 | 398.1 | 400.0 | 401.9 | 403.9 | 405.8 | 407.4 | 409.0 | 410.5 | 412.1 | 412.7 |
| 115° | 445.5 | 446.9 | 448.4 | 450.0 | 451.6 | 453.2 | 454.9 | 456.7 | 458.4 | 460.2 | 461.4 |
| 117.5° | 495.2 | 496.2 | 497.1 | 498.0 | 498.9 | 499.8 | 501.2 | 502.6 | 504.0 | 505.4 | 506.2 |
| 120° | 541.6 | 542.7 | 543.2 | 543.7 | 544.2 | 544.8 | 546.2 | 547.6 | 549.0 | 550.4 | 551.1 |
| 122.5° | 586.0 | 587.0 | 587.7 | 588.4 | 589.1 | 589.8 | 590.6 | 591.5 | 592.4 | 593.3 | 593.8 |
| 125° | 627.7 | 628.8 | 629.5 | 630.2 | 630.9 | 631.6 | 632.0 | 632.3 | 632.7 | 633.0 | 633.4 |
| 127.5° | 668.8 | 669.9 | 670.8 | 671.7 | 672.6 | 673.4 | 674.0 | 674.5 | 675.0 | 675.6 | 675.6 |
| 130° | 706.7 | 707.7 | 708.5 | 709.2 | 709.9 | 710.6 | 711.3 | 712.0 | 712.7 | 713.4 | 713.5 |
| 132.5° | 743.0 | 744.0 | 744.5 | 745.0 | 745.6 | 746.1 | 746.8 | 747.5 | 748.2 | 748.9 | 749.0 |
| 135° | 778.7 | 779.6 | 780.3 | 781.0 | 781.7 | 782.4 | 782.9 | 783.5 | 784.0 | 784.5 | 784.5 |
| 137.5° | 811.7 | 812.6 | 812.9 | 813.3 | 813.6 | 814.0 | 814.9 | 815.7 | 816.6 | 817.5 | 817.8 |
| 140° | 841.9 | 842.7 | 843.2 | 843.7 | 844.2 | 844.8 | 845.5 | 846.2 | 846.9 | 847.6 | 847.8 |
| 142.5° | 871.1 | 871.9 | 872.4 | 872.9 | 873.5 | 874.0 | 874.5 | 875.0 | 875.6 | 876.1 | 876.1 |
| 145° | 898.6 | 899.4 | 899.8 | 900.1 | 900.5 | 900.8 | 901.2 | 901.5 | 901.9 | 902.2 | 902.4 |
| 147.5° | 923.3 | 923.9 | 924.2 | 924.6 | 925.0 | 925.3 | 925.7 | 926.0 | 926.4 | 926.7 | 926.4 |
| 150° | 945.6 | 946.0 | 946.4 | 946.7 | 947.1 | 947.4 | 947.8 | 948.1 | 948.5 | 948.8 | 948.7 |
| 152.5° | 965.5 | 965.7 | 965.8 | 966.0 | 966.2 | 966.4 | 967.1 | 967.8 | 968.5 | 969.2 | 969.1 |
| 155° | 983.1 | 983.0 | 983.2 | 983.4 | 983.6 | 983.7 | 984.6 | 985.5 | 986.4 | 987.2 | 987.1 |
| 157.5° | 1000.3 | 1000.2 | 1000.0 | 999.9 | 999.7 | 999.5 | 1000.6 | 1001.6 | 1002.7 | 1003.7 | 1003.6 |
| 160° | 1013.8 | 1013.6 | 1013.5 | 1013.3 | 1013.1 | 1012.9 | 1014.0 | 1015.0 | 1016.1 | 1017.1 | 1017.1 |
| 162.5° | 1025.8 | 1025.5 | 1025.3 | 1025.1 | 1025.0 | 1024.8 | 1026.0 | 1027.2 | 1028.5 | 1029.7 | 1029.8 |
| 165° | 1036.1 | 1035.7 | 1035.6 | 1035.4 | 1035.2 | 1035.0 | 1036.4 | 1037.9 | 1039.3 | 1040.7 | 1040.7 |
| 167.5° | 1044.1 | 1043.7 | 1043.7 | 1043.7 | 1043.7 | 1043.7 | 1045.1 | 1046.5 | 1047.9 | 1049.3 | 1049.3 |
| 170° | 1051.2 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1052.2 | 1053.6 | 1055.0 | 1056.4 | 1056.4 |
| 172.5° | 1055.2 | 1054.9 | 1055.0 | 1055.2 | 1055.4 | 1055.6 | 1057.0 | 1058.4 | 1059.8 | 1061.2 | 1061.1 |
| 175° | 1059.2 | 1058.8 | 1059.0 | 1059.2 | 1059.3 | 1059.5 | 1060.7 | 1062.0 | 1063.2 | 1064.4 | 1064.3 |
| 177.5° | 1060.7 | 1060.4 | 1060.6 | 1060.7 | 1060.9 | 1061.1 | 1062.5 | 1063.9 | 1065.3 | 1066.7 | 1066.5 |
| 180° | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |

TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 1844.4 | 1844.4 | 1844.4 | 1844.4 |
| 2.5° | 1638.7 | 1634.9 | 1633.4 | 1631.9 |
| 5° | 1404.7 | 1392.9 | 1390.3 | 1387.6 |
| 7.5° | 1205.8 | 1200.9 | 1184.6 | 1168.3 |
| 10° | 1044.3 | 1029.2 | 1022.4 | 1015.6 |
| 12.5° | 909.3 | 895.3 | 893.1 | 890.8 |
| 15° | 804.6 | 794.8 | 791.4 | 788.0 |
| 17.5° | 735.8 | 729.0 | 724.8 | 720.7 |
| 20° | 684.7 | 679.8 | 676.8 | 673.8 |
| 22.5° | 645.8 | 642.0 | 639.7 | 637.5 |
| 25° | 608.4 | 602.7 | 600.8 | 598.9 |
| 27.5° | 572.8 | 567.9 | 566.0 | 564.1 |
| 30° | 539.6 | 535.4 | 532.7 | 530.1 |
| 32.5° | 503.3 | 498.3 | 496.8 | 495.3 |
| 35° | 471.1 | 468.1 | 466.6 | 465.1 |
| 37.5° | 437.1 | 433.3 | 431.0 | 428.8 |
| 40° | 408.0 | 406.1 | 404.9 | 403.8 |
| 42.5° | 378.5 | 375.1 | 374.7 | 374.3 |
| 45° | 349.0 | 345.6 | 344.8 | 344.1 |
| 47.5° | 321.4 | 318.4 | 318.0 | 317.6 |
| 50° | 290.8 | 286.6 | 283.6 | 280.6 |
| 52.5° | 255.6 | 251.8 | 249.2 | 246.5 |
| 55° | 223.5 | 219.3 | 217.0 | 214.8 |
| 57.5° | 199.3 | 197.4 | 196.2 | 195.1 |
| 60° | 179.6 | 178.5 | 177.7 | 177.0 |
| 62.5° | 161.4 | 160.3 | 160.3 | 160.3 |
| 65° | 144.8 | 143.7 | 142.5 | 141.4 |
| 67.5° | 123.3 | 121.0 | 120.6 | 120.2 |
| 70° | 97.2 | 93.8 | 93.4 | 93.0 |
| 72.5° | 76.0 | 75.6 | 74.9 | 74.1 |
| 75° | 62.8 | 62.0 | 62.0 | 62.0 |
| 77.5° | 50.7 | 49.9 | 49.9 | 49.9 |
| 80° | 38.9 | 38.6 | 38.9 | 39.3 |
| 82.5° | 28.7 | 28.7 | 28.4 | 28.0 |
| 85° | 18.5 | 18.1 | 18.1 | 18.1 |
| 87.5° | 9.1 | 9.1 | 9.1 | 9.1 |
| 90° | 22.6 | 23.0 | 23.3 | 23.7 |
| 92.5° | 26.3 | 26.5 | 26.7 | 26.8 |
| 95° | 30.0 | 30.0 | 30.0 | 30.0 |
| 97.5° | 31.8 | 32.0 | 32.2 | 32.4 |
| 100° | 32.6 | 32.8 | 33.0 | 33.2 |
| 102.5° | 32.9 | 33.2 | 33.6 | 33.9 |
| 105° | 33.7 | 34.0 | 34.4 | 34.7 |
| 107.5° | 151.1 | 128.1 | 105.1 | 82.1 |
| 110° | 292.4 | 267.3 | 242.2 | 217.1 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 412.4 | 412.0 | 411.7 | 411.3 |
| 115° | 462.1 | 462.8 | 463.5 | 464.2 |
| 117.5° | 506.3 | 506.5 | 506.7 | 506.9 |
| 120° | 551.1 | 551.1 | 551.1 | 551.1 |
| 122.5° | 594.0 | 594.1 | 594.3 | 594.5 |
| 125° | 633.7 | 634.1 | 634.4 | 634.8 |
| 127.5° | 675.3 | 674.9 | 674.6 | 674.2 |
| 130° | 713.2 | 712.8 | 712.5 | 712.1 |
| 132.5° | 748.5 | 747.9 | 747.4 | 746.9 |
| 135° | 784.0 | 783.5 | 782.9 | 782.4 |
| 137.5° | 817.4 | 817.1 | 816.7 | 816.4 |
| 140° | 847.4 | 847.1 | 846.7 | 846.4 |
| 142.5° | 875.6 | 875.0 | 874.5 | 874.0 |
| 145° | 902.4 | 902.4 | 902.4 | 902.4 |
| 147.5° | 925.6 | 924.7 | 923.8 | 922.9 |
| 150° | 948.2 | 947.7 | 947.1 | 946.6 |
| 152.5° | 968.2 | 967.3 | 966.4 | 965.6 |
| 155° | 986.1 | 985.0 | 984.0 | 982.9 |
| 157.5° | 1002.1 | 1000.7 | 999.3 | 997.9 |
| 160° | 1015.8 | 1014.6 | 1013.4 | 1012.1 |
| 162.5° | 1028.7 | 1027.7 | 1026.6 | 1025.6 |
| 165° | 1039.5 | 1038.3 | 1037.1 | 1035.8 |
| 167.5° | 1047.9 | 1046.5 | 1045.1 | 1043.7 |
| 170° | 1055.0 | 1053.6 | 1052.2 | 1050.8 |
| 172.5° | 1059.5 | 1057.9 | 1056.4 | 1054.8 |
| 175° | 1062.9 | 1061.5 | 1060.1 | 1058.7 |
| 177.5° | 1064.8 | 1063.0 | 1061.3 | 1059.5 |
| 180° | 1062.7 | 1062.7 | 1062.7 | 1062.7 |



TEST NUMBER: P832284

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-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 | 10.44 | 11.20 | 11.46 | 12.22 | 13.59 | 15.10 | 15.86 | 16.13 | 16.88 | 18.26 |
| | 3H | 11.65 | 12.33 | 12.69 | 13.36 | 14.76 | 16.59 | 17.27 | 17.63 | 18.31 | 19.70 |
| | 4H | 12.03 | 12.67 | 13.08 | 13.71 | 15.11 | 17.08 | 17.72 | 18.13 | 18.76 | 20.16 |
| | 6H | 12.31 | 12.90 | 13.37 | 13.94 | 15.35 | 17.39 | 17.98 | 18.45 | 19.02 | 20.43 |
| | 8H | 12.39 | 12.95 | 13.46 | 14.01 | 15.42 | 17.47 | 18.03 | 18.53 | 19.08 | 20.49 |
| | 12H | 12.44 | 12.98 | 13.51 | 14.03 | 15.46 | 17.50 | 18.03 | 18.56 | 19.08 | 20.51 |
| 4H | 2H | 11.15 | 11.79 | 12.21 | 12.83 | 14.23 | 15.09 | 15.73 | 16.14 | 16.77 | 18.16 |
| | 3H | 12.51 | 13.05 | 13.58 | 14.11 | 15.52 | 16.74 | 17.27 | 17.80 | 18.34 | 19.75 |
| | 4H | 12.97 | 13.45 | 14.03 | 14.51 | 15.95 | 17.34 | 17.83 | 18.41 | 18.89 | 20.32 |
| | 6H | 13.33 | 13.75 | 14.41 | 14.83 | 16.26 | 17.78 | 18.19 | 18.85 | 19.27 | 20.70 |
| | 8H | 13.45 | 13.84 | 14.53 | 14.92 | 16.36 | 17.91 | 18.30 | 18.98 | 19.37 | 20.81 |
| | 12H | 13.53 | 13.88 | 14.62 | 14.96 | 16.41 | 17.97 | 18.32 | 19.06 | 19.40 | 20.85 |
| 8H | 4H | 13.28 | 13.67 | 14.35 | 14.74 | 16.18 | 17.30 | 17.69 | 18.38 | 18.77 | 20.21 |
| | 6H | 13.74 | 14.06 | 14.84 | 15.17 | 16.61 | 17.80 | 18.12 | 18.90 | 19.23 | 20.67 |
| | 8H | 13.93 | 14.21 | 15.04 | 15.31 | 16.77 | 17.98 | 18.27 | 19.09 | 19.36 | 20.82 |
| | 12H | 14.07 | 14.31 | 15.18 | 15.41 | 16.91 | 18.10 | 18.34 | 19.21 | 19.44 | 20.94 |
| 12H | 4H | 13.28 | 13.64 | 14.38 | 14.72 | 16.17 | 17.25 | 17.60 | 18.34 | 18.69 | 20.14 |
| | 6H | 13.80 | 14.08 | 14.90 | 15.17 | 16.63 | 17.77 | 18.05 | 18.88 | 19.15 | 20.61 |
| | 8H | 14.01 | 14.26 | 15.12 | 15.35 | 16.85 | 17.96 | 18.21 | 19.07 | 19.30 | 20.80 |