

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: P832408

Luminaire Tested: S123RDIP-S775D585U940-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832408
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D585U940-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

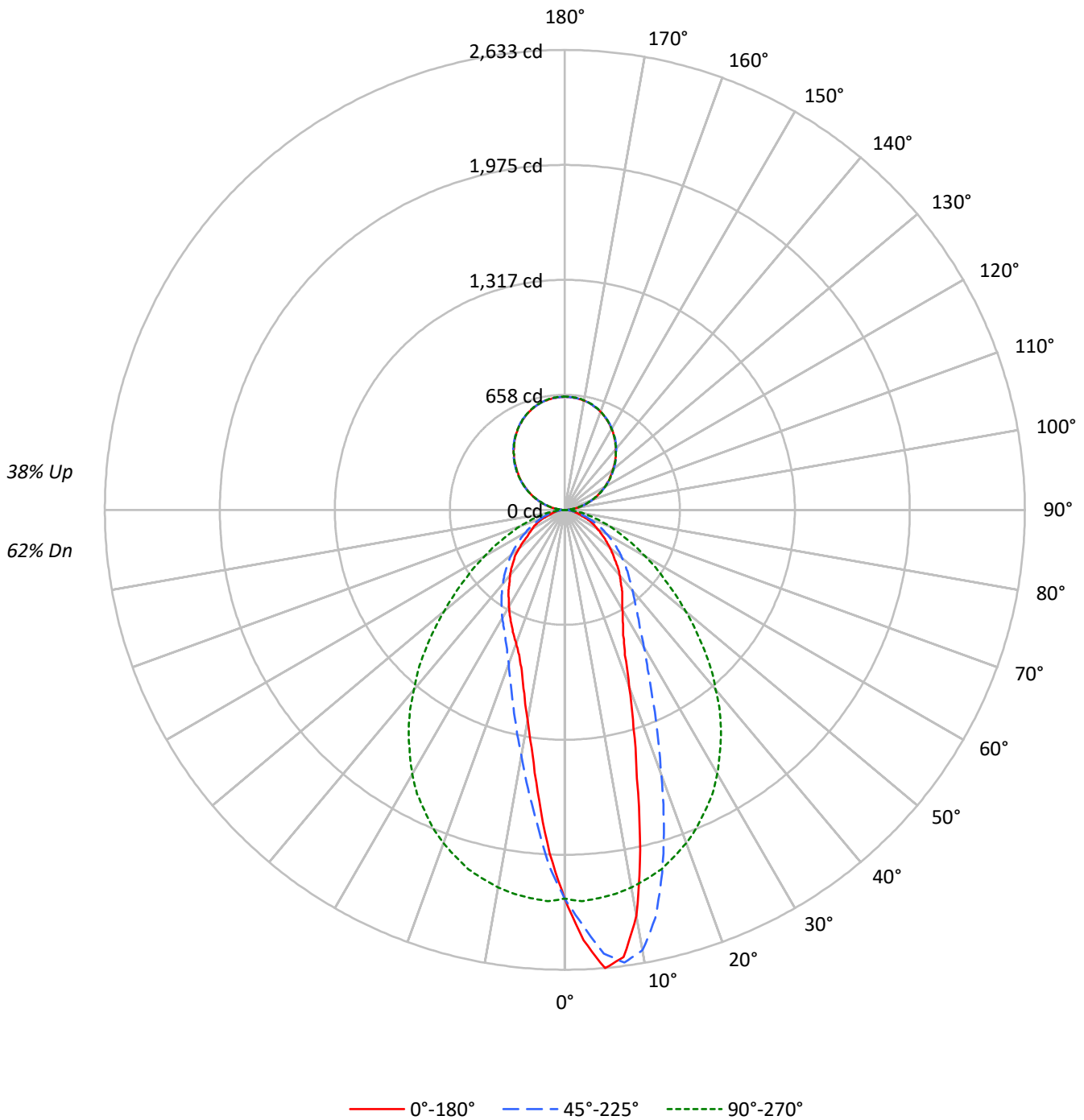
Lumens per Lamp: N/A
Luminaire Lumens: 4746.9 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.1
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: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 67 | 67 | 67 | 62 | |
| 1 | 101 | 97 | 94 | 91 | 95 | 92 | 88 | 86 | 81 | 78 | 76 | 70 | 69 | 67 | 61 | 60 | 59 | 59 | 59 | 59 | 54 | |
| 2 | 93 | 86 | 81 | 76 | 87 | 81 | 76 | 72 | 72 | 68 | 65 | 63 | 60 | 58 | 55 | 53 | 51 | 51 | 51 | 51 | 47 | |
| 3 | 86 | 77 | 70 | 65 | 80 | 73 | 67 | 62 | 64 | 60 | 56 | 57 | 53 | 50 | 50 | 47 | 45 | 45 | 45 | 45 | 41 | |
| 4 | 79 | 69 | 62 | 56 | 74 | 65 | 59 | 53 | 58 | 53 | 49 | 51 | 47 | 44 | 45 | 42 | 40 | 40 | 40 | 40 | 37 | |
| 5 | 73 | 62 | 55 | 49 | 69 | 59 | 52 | 47 | 53 | 47 | 43 | 47 | 43 | 39 | 42 | 38 | 36 | 36 | 36 | 36 | 33 | |
| 6 | 68 | 57 | 49 | 43 | 64 | 54 | 47 | 42 | 48 | 43 | 38 | 43 | 39 | 35 | 38 | 35 | 32 | 32 | 32 | 32 | 29 | |
| 7 | 63 | 52 | 44 | 39 | 60 | 49 | 42 | 37 | 44 | 39 | 34 | 40 | 35 | 32 | 35 | 32 | 29 | 29 | 29 | 29 | 27 | |
| 8 | 59 | 47 | 40 | 35 | 56 | 45 | 38 | 34 | 41 | 35 | 31 | 37 | 32 | 29 | 33 | 29 | 27 | 27 | 27 | 27 | 24 | |
| 9 | 55 | 44 | 36 | 32 | 52 | 42 | 35 | 31 | 38 | 32 | 28 | 34 | 30 | 26 | 31 | 27 | 24 | 24 | 24 | 24 | 22 | |
| 10 | 52 | 40 | 33 | 29 | 49 | 39 | 32 | 28 | 35 | 30 | 26 | 32 | 27 | 24 | 29 | 25 | 23 | 23 | 23 | 23 | 21 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 23962 | 23962 | 23962 | 23962 | 23962 |
| 5° | 28452 | 27544 | 24113 | 19492 | 18096 |
| 10° | 25778 | 27977 | 23992 | 15618 | 13398 |
| 15° | 17748 | 23989 | 23739 | 12765 | 10599 |
| 20° | 12347 | 18468 | 23262 | 10763 | 9315 |
| 25° | 9409 | 14076 | 22569 | 9567 | 8586 |
| 30° | 8191 | 11253 | 21701 | 8883 | 7952 |
| 35° | 7520 | 9493 | 20473 | 8306 | 7376 |
| 40° | 6861 | 8477 | 18865 | 7739 | 6849 |
| 45° | 6197 | 7753 | 17131 | 7203 | 6322 |
| 50° | 5625 | 7154 | 15086 | 6680 | 5670 |
| 55° | 5088 | 6568 | 13120 | 6167 | 4864 |
| 60° | 4560 | 5974 | 11397 | 5599 | 4598 |
| 65° | 4208 | 5300 | 9811 | 5033 | 4348 |
| 70° | 3418 | 4582 | 8560 | 4554 | 3534 |
| 75° | 2999 | 3643 | 7249 | 3776 | 3111 |
| 80° | 2715 | 3081 | 5938 | 3168 | 2944 |
| 85° | 2482 | 2705 | 4508 | 2878 | 2705 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 18077 cd/sqm



TEST NUMBER: P832408

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.9 | 4.3 |
| 10°-20° | 469.5 | 9.9 |
| 20°-30° | 538.7 | 11.3 |
| 30°-40° | 531.0 | 11.2 |
| 40°-50° | 468.3 | 9.9 |
| 50°-60° | 360.2 | 7.6 |
| 60°-70° | 236.8 | 5.0 |
| 70°-80° | 115.0 | 2.4 |
| 80°-90° | 30.4 | 0.6 |
| 90°-100° | 41.7 | 0.9 |
| 100°-110° | 126.2 | 2.7 |
| 110°-120° | 214.8 | 4.5 |
| 120°-130° | 282.5 | 6.0 |
| 130°-140° | 317.6 | 6.7 |
| 140°-150° | 312.2 | 6.6 |
| 150°-160° | 262.9 | 5.5 |
| 160°-170° | 175.0 | 3.7 |
| 170°-180° | 61.3 | 1.3 |
| 0°-30° | 1211.1 | 25.5 |
| 0°-40° | 1742.1 | 36.7 |
| 0°-60° | 2570.6 | 54.2 |
| 0°-90° | 2952.9 | 62.2 |
| 90°-120° | 382.6 | 8.1 |
| 90°-150° | 1294.9 | 27.3 |
| 90°-180° | 1794.0 | 37.8 |
| 0°-180° | 4746.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2226 | 2226 | 2226 | 2226 | 2226 | |
| 5° | 2633 | 2549 | 2232 | 1804 | 1675 | 241 |
| 15° | 1593 | 2153 | 2130 | 1146 | 951 | 450 |
| 25° | 792 | 1185 | 1900 | 806 | 723 | 374 |
| 35° | 572 | 722 | 1558 | 632 | 561 | 357 |
| 45° | 407 | 509 | 1125 | 473 | 415 | 316 |
| 55° | 271 | 350 | 699 | 329 | 259 | 243 |
| 65° | 165 | 208 | 385 | 198 | 171 | 162 |
| 75° | 72 | 88 | 174 | 91 | 75 | 78 |
| 85° | 20 | 22 | 36 | 23 | 22 | 21 |
| 90° | 15 | 12 | 0 | 12 | 15 | 8 |
| 95° | 40 | 38 | 30 | 38 | 40 | 40 |
| 105° | 121 | 120 | 114 | 120 | 121 | 128 |
| 115° | 217 | 217 | 216 | 217 | 217 | 215 |
| 125° | 313 | 317 | 316 | 317 | 313 | 280 |
| 135° | 410 | 413 | 410 | 413 | 410 | 315 |
| 145° | 498 | 500 | 498 | 500 | 498 | 311 |
| 155° | 569 | 571 | 570 | 571 | 569 | 262 |
| 165° | 619 | 620 | 621 | 620 | 619 | 175 |
| 175° | 643 | 644 | 646 | 644 | 643 | 61 |
| 180° | 648 | 648 | 648 | 648 | 648 | |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5° | 2467.1 | 2459.3 | 2451.6 | 2449.3 | 2447.0 | 2439.7 | 2432.4 | 2416.0 | 2399.5 | 2382.7 | 2365.8 |
| 5° | 2633.2 | 2634.1 | 2635.0 | 2632.7 | 2630.5 | 2620.9 | 2611.3 | 2591.2 | 2571.1 | 2549.2 | 2527.3 |
| 7.5° | 2582.1 | 2596.7 | 2611.3 | 2614.0 | 2616.8 | 2624.1 | 2631.4 | 2626.8 | 2622.3 | 2614.0 | 2605.8 |
| 10° | 2358.5 | 2357.6 | 2356.6 | 2373.1 | 2389.5 | 2438.3 | 2487.2 | 2512.3 | 2537.4 | 2559.7 | 2582.1 |
| 12.5° | 1993.4 | 1994.8 | 1996.1 | 2050.0 | 2103.8 | 2149.9 | 2196.0 | 2259.9 | 2323.8 | 2392.7 | 2461.6 |
| 15° | 1592.7 | 1615.1 | 1637.4 | 1685.3 | 1733.3 | 1802.6 | 1872.0 | 1957.8 | 2043.6 | 2152.7 | 2261.7 |
| 17.5° | 1307.9 | 1317.5 | 1327.1 | 1373.2 | 1419.3 | 1485.0 | 1550.7 | 1647.9 | 1745.1 | 1885.7 | 2026.2 |
| 20° | 1077.9 | 1086.6 | 1095.3 | 1128.6 | 1161.9 | 1224.9 | 1287.9 | 1380.5 | 1473.1 | 1612.3 | 1751.5 |
| 22.5° | 899.9 | 916.8 | 933.7 | 956.1 | 978.4 | 1024.1 | 1069.7 | 1164.2 | 1258.6 | 1385.5 | 1512.4 |
| 25° | 792.2 | 800.0 | 807.8 | 826.9 | 846.1 | 889.9 | 933.7 | 996.2 | 1058.8 | 1185.2 | 1311.6 |
| 27.5° | 719.2 | 721.5 | 723.8 | 737.9 | 752.1 | 780.4 | 808.7 | 866.6 | 924.6 | 1028.6 | 1132.7 |
| 30° | 659.0 | 663.1 | 667.2 | 678.2 | 689.1 | 709.6 | 730.2 | 771.3 | 812.3 | 905.4 | 998.5 |
| 32.5° | 612.4 | 614.7 | 617.0 | 626.1 | 635.3 | 650.3 | 665.4 | 697.8 | 730.2 | 801.4 | 872.6 |
| 35° | 572.3 | 572.7 | 573.2 | 580.0 | 586.9 | 601.5 | 616.1 | 643.0 | 669.9 | 722.4 | 774.9 |
| 37.5° | 526.6 | 529.8 | 533.0 | 538.0 | 543.1 | 555.8 | 568.6 | 590.5 | 612.4 | 655.8 | 699.1 |
| 40° | 488.3 | 491.0 | 493.8 | 499.7 | 505.6 | 515.7 | 525.7 | 545.8 | 565.9 | 603.3 | 640.7 |
| 42.5° | 450.0 | 451.8 | 453.6 | 459.6 | 465.5 | 477.8 | 490.1 | 506.1 | 522.1 | 553.1 | 584.1 |
| 45° | 407.1 | 411.6 | 416.2 | 422.6 | 429.0 | 439.5 | 450.0 | 466.4 | 482.8 | 509.3 | 535.8 |
| 47.5° | 371.5 | 373.8 | 376.0 | 381.5 | 387.0 | 399.8 | 412.6 | 427.2 | 441.8 | 466.4 | 491.0 |
| 50° | 335.9 | 336.8 | 337.7 | 342.7 | 347.7 | 359.2 | 370.6 | 387.5 | 404.3 | 427.2 | 450.0 |
| 52.5° | 302.1 | 304.4 | 306.7 | 311.7 | 316.7 | 324.5 | 332.2 | 349.6 | 366.9 | 389.3 | 411.6 |
| 55° | 271.1 | 272.4 | 273.8 | 277.5 | 281.1 | 290.2 | 299.4 | 314.4 | 329.5 | 350.0 | 370.6 |
| 57.5° | 241.9 | 243.7 | 245.5 | 248.3 | 251.0 | 259.2 | 267.4 | 280.7 | 293.9 | 314.4 | 335.0 |
| 60° | 211.8 | 214.0 | 216.3 | 219.5 | 222.7 | 229.1 | 235.5 | 247.3 | 259.2 | 277.5 | 295.7 |
| 62.5° | 189.8 | 190.3 | 190.8 | 193.5 | 196.2 | 200.8 | 205.4 | 214.9 | 224.5 | 242.8 | 261.0 |
| 65° | 165.2 | 166.6 | 167.9 | 169.3 | 170.7 | 174.3 | 178.0 | 186.2 | 194.4 | 208.1 | 221.8 |
| 67.5° | 139.6 | 141.0 | 142.4 | 144.7 | 146.9 | 150.1 | 153.3 | 158.8 | 164.3 | 177.1 | 189.8 |
| 70° | 108.6 | 108.6 | 108.6 | 112.3 | 115.9 | 121.4 | 126.9 | 131.0 | 135.1 | 145.6 | 156.1 |
| 72.5° | 88.5 | 89.0 | 89.4 | 89.9 | 90.4 | 93.6 | 96.7 | 103.6 | 110.4 | 116.8 | 123.2 |
| 75° | 72.1 | 72.6 | 73.0 | 73.5 | 73.9 | 74.8 | 75.8 | 78.0 | 80.3 | 87.6 | 94.9 |
| 77.5° | 57.5 | 58.0 | 58.4 | 58.9 | 59.3 | 60.2 | 61.2 | 62.1 | 63.0 | 65.7 | 68.5 |
| 80° | 43.8 | 44.3 | 44.7 | 45.2 | 45.6 | 46.1 | 46.5 | 47.5 | 48.4 | 49.7 | 51.1 |
| 82.5° | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 | 32.9 | 33.8 | 33.8 | 33.8 | 34.7 | 35.6 |
| 85° | 20.1 | 20.1 | 20.1 | 20.5 | 21.0 | 21.0 | 21.0 | 21.4 | 21.9 | 21.9 | 21.9 |
| 87.5° | 9.1 | 8.7 | 8.2 | 8.7 | 9.1 | 9.1 | 9.1 | 9.6 | 10.0 | 10.0 | 10.0 |
| 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° | 21.9 | 22.1 | 22.3 | 22.5 | 22.8 | 22.7 | 22.4 | 22.0 | 21.7 | 21.4 | 20.7 |
| 95° | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.4 | 39.0 | 38.5 | 38.1 | 37.6 | 36.7 |
| 97.5° | 57.0 | 57.1 | 57.2 | 57.3 | 57.4 | 57.2 | 56.6 | 56.1 | 55.5 | 54.9 | 54.3 |
| 100° | 77.3 | 77.1 | 76.9 | 76.6 | 76.4 | 76.1 | 75.8 | 75.4 | 75.1 | 74.8 | 74.2 |
| 102.5° | 98.2 | 98.3 | 98.4 | 98.5 | 98.6 | 98.5 | 98.2 | 97.8 | 97.5 | 97.1 | 96.4 |
| 105° | 121.1 | 120.8 | 120.6 | 120.4 | 120.1 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 119.0 |
| 107.5° | 144.4 | 144.6 | 144.7 | 144.8 | 144.9 | 144.8 | 144.4 | 144.1 | 143.8 | 143.4 | 143.0 |
| 110° | 168.4 | 168.6 | 168.8 | 169.0 | 169.3 | 169.1 | 168.7 | 168.2 | 167.8 | 167.3 | 167.1 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 193.8 | 193.8 | 193.8 | 193.8 | 193.8 | 193.5 | 192.9 | 192.4 | 191.8 | 191.2 | 191.2 |
| 115° | 216.7 | 216.8 | 216.9 | 217.0 | 217.1 | 217.1 | 217.0 | 216.9 | 216.8 | 216.7 | 216.9 |
| 117.5° | 240.1 | 240.4 | 240.7 | 241.1 | 241.4 | 241.6 | 241.6 | 241.6 | 241.6 | 241.6 | 241.8 |
| 120° | 265.0 | 265.2 | 265.4 | 265.7 | 265.9 | 266.1 | 266.2 | 266.3 | 266.4 | 266.5 | 267.1 |
| 122.5° | 288.9 | 289.2 | 289.6 | 289.9 | 290.3 | 290.6 | 290.9 | 291.3 | 291.6 | 291.9 | 292.2 |
| 125° | 312.8 | 313.3 | 313.7 | 314.2 | 314.6 | 315.1 | 315.5 | 316.0 | 316.4 | 316.9 | 317.1 |
| 127.5° | 336.7 | 337.2 | 337.6 | 338.1 | 338.5 | 339.1 | 339.8 | 340.4 | 341.1 | 341.8 | 342.0 |
| 130° | 360.1 | 360.9 | 361.7 | 362.5 | 363.3 | 363.9 | 364.3 | 364.8 | 365.2 | 365.7 | 366.0 |
| 132.5° | 384.5 | 385.1 | 385.6 | 386.2 | 386.8 | 387.3 | 387.9 | 388.5 | 389.0 | 389.6 | 389.8 |
| 135° | 410.0 | 410.2 | 410.4 | 410.6 | 410.9 | 411.2 | 411.6 | 412.1 | 412.6 | 413.0 | 413.1 |
| 137.5° | 432.3 | 432.7 | 433.0 | 433.3 | 433.7 | 434.1 | 434.7 | 435.3 | 435.8 | 436.4 | 436.1 |
| 140° | 454.2 | 455.0 | 455.8 | 456.6 | 457.4 | 457.8 | 457.9 | 458.0 | 458.2 | 458.3 | 458.2 |
| 142.5° | 476.6 | 477.1 | 477.7 | 478.3 | 478.8 | 479.2 | 479.3 | 479.4 | 479.5 | 479.6 | 479.4 |
| 145° | 497.9 | 498.4 | 498.8 | 499.3 | 499.8 | 500.0 | 500.1 | 500.3 | 500.4 | 500.5 | 500.1 |
| 147.5° | 517.3 | 517.9 | 518.6 | 519.3 | 520.0 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.0 |
| 150° | 535.6 | 536.3 | 536.9 | 537.6 | 538.3 | 538.6 | 538.6 | 538.6 | 538.6 | 538.6 | 538.4 |
| 152.5° | 553.4 | 553.9 | 554.5 | 555.1 | 555.6 | 555.8 | 555.6 | 555.4 | 555.1 | 554.9 | 554.8 |
| 155° | 569.1 | 569.9 | 570.7 | 571.5 | 572.3 | 572.5 | 572.0 | 571.6 | 571.1 | 570.7 | 570.6 |
| 157.5° | 583.9 | 584.6 | 585.3 | 585.9 | 586.6 | 586.7 | 586.3 | 585.8 | 585.4 | 584.9 | 584.8 |
| 160° | 598.1 | 598.6 | 599.0 | 599.5 | 599.9 | 599.9 | 599.3 | 598.8 | 598.2 | 597.6 | 597.6 |
| 162.5° | 608.8 | 609.6 | 610.4 | 611.2 | 612.0 | 612.1 | 611.5 | 611.0 | 610.4 | 609.8 | 609.7 |
| 165° | 619.0 | 619.8 | 620.6 | 621.4 | 622.2 | 622.2 | 621.5 | 620.9 | 620.2 | 619.5 | 619.5 |
| 167.5° | 628.1 | 628.8 | 629.5 | 630.2 | 630.9 | 630.9 | 630.2 | 629.5 | 628.8 | 628.1 | 628.0 |
| 170° | 634.8 | 635.6 | 636.3 | 637.1 | 637.9 | 637.9 | 637.1 | 636.3 | 635.6 | 634.8 | 634.8 |
| 172.5° | 639.8 | 640.6 | 641.4 | 642.2 | 643.0 | 643.1 | 642.4 | 641.7 | 641.0 | 640.4 | 640.4 |
| 175° | 643.4 | 644.2 | 645.0 | 645.8 | 646.6 | 646.6 | 646.0 | 645.3 | 644.6 | 643.9 | 643.9 |
| 177.5° | 645.4 | 646.2 | 647.0 | 647.8 | 648.6 | 648.7 | 648.0 | 647.3 | 646.6 | 646.0 | 646.0 |
| 180° | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5° | 2363.5 | 2361.2 | 2339.3 | 2317.4 | 2296.0 | 2274.5 | 2258.5 | 2242.6 | 2215.6 | 2188.7 | 2171.8 |
| 5° | 2510.0 | 2492.6 | 2458.0 | 2423.3 | 2371.3 | 2319.2 | 2275.4 | 2231.6 | 2175.9 | 2120.3 | 2073.7 |
| 7.5° | 2591.7 | 2577.5 | 2535.5 | 2493.6 | 2424.6 | 2355.7 | 2287.3 | 2218.8 | 2136.7 | 2054.5 | 1984.3 |
| 10° | 2594.0 | 2605.8 | 2571.1 | 2536.5 | 2458.9 | 2381.3 | 2288.2 | 2195.1 | 2084.7 | 1974.2 | 1883.4 |
| 12.5° | 2512.7 | 2563.8 | 2556.5 | 2549.2 | 2470.3 | 2391.3 | 2278.2 | 2165.0 | 2029.4 | 1893.9 | 1780.3 |
| 15° | 2360.8 | 2459.8 | 2489.0 | 2518.2 | 2452.9 | 2387.7 | 2259.0 | 2130.3 | 1971.0 | 1811.8 | 1681.2 |
| 17.5° | 2165.0 | 2303.7 | 2380.8 | 2458.0 | 2410.5 | 2363.0 | 2222.0 | 2081.0 | 1901.7 | 1722.3 | 1580.4 |
| 20° | 1933.1 | 2114.8 | 2235.7 | 2356.6 | 2339.3 | 2322.0 | 2176.4 | 2030.8 | 1837.3 | 1643.8 | 1490.0 |
| 22.5° | 1704.1 | 1895.7 | 2062.8 | 2229.8 | 2247.6 | 2265.4 | 2118.4 | 1971.5 | 1759.7 | 1548.0 | 1391.4 |
| 25° | 1506.4 | 1701.3 | 1900.3 | 2099.3 | 2139.4 | 2179.6 | 2039.9 | 1900.3 | 1680.8 | 1461.3 | 1305.6 |
| 27.5° | 1318.0 | 1503.3 | 1722.3 | 1941.4 | 2014.4 | 2087.4 | 1959.6 | 1831.8 | 1603.2 | 1374.6 | 1219.4 |
| 30° | 1164.2 | 1329.8 | 1553.5 | 1777.1 | 1878.8 | 1980.6 | 1863.3 | 1746.0 | 1519.2 | 1292.4 | 1140.4 |
| 32.5° | 1020.9 | 1169.2 | 1393.7 | 1618.3 | 1736.5 | 1854.7 | 1753.3 | 1652.0 | 1433.9 | 1215.7 | 1065.6 |
| 35° | 907.7 | 1040.5 | 1250.0 | 1459.4 | 1591.8 | 1724.1 | 1641.1 | 1558.0 | 1344.9 | 1131.8 | 989.8 |
| 37.5° | 810.5 | 921.8 | 1118.5 | 1315.2 | 1455.8 | 1596.4 | 1527.0 | 1457.6 | 1257.3 | 1056.9 | 922.8 |
| 40° | 730.2 | 819.6 | 1002.6 | 1185.6 | 1323.4 | 1461.3 | 1401.9 | 1342.6 | 1163.3 | 983.9 | 858.4 |
| 42.5° | 661.3 | 738.4 | 902.7 | 1067.0 | 1193.4 | 1319.8 | 1280.5 | 1241.3 | 1078.8 | 916.4 | 800.0 |
| 45° | 600.6 | 665.4 | 810.0 | 954.7 | 1071.1 | 1187.5 | 1156.4 | 1125.4 | 985.3 | 845.2 | 738.4 |
| 47.5° | 546.7 | 602.4 | 731.5 | 860.7 | 965.2 | 1069.7 | 1041.0 | 1012.2 | 896.3 | 780.4 | 683.2 |
| 50° | 497.4 | 544.9 | 652.6 | 760.3 | 854.3 | 948.3 | 924.6 | 900.9 | 805.0 | 709.2 | 625.2 |
| 52.5° | 450.9 | 490.1 | 586.9 | 683.6 | 759.4 | 835.1 | 816.9 | 798.6 | 724.7 | 650.8 | 574.6 |
| 55° | 406.6 | 442.7 | 524.4 | 606.0 | 670.9 | 735.7 | 717.4 | 699.1 | 641.6 | 584.1 | 517.1 |
| 57.5° | 366.5 | 397.9 | 464.1 | 530.3 | 581.9 | 633.4 | 624.8 | 616.1 | 568.2 | 520.3 | 465.0 |
| 60° | 324.0 | 352.3 | 409.4 | 466.4 | 507.9 | 549.5 | 539.4 | 529.4 | 495.2 | 460.9 | 413.5 |
| 62.5° | 286.1 | 311.2 | 356.9 | 402.5 | 436.3 | 470.1 | 462.8 | 455.4 | 429.4 | 403.4 | 364.2 |
| 65° | 246.4 | 271.1 | 308.0 | 345.0 | 371.5 | 397.9 | 391.6 | 385.2 | 365.5 | 345.9 | 314.4 |
| 67.5° | 210.4 | 230.9 | 262.9 | 294.8 | 312.6 | 330.4 | 326.8 | 323.1 | 308.0 | 293.0 | 268.3 |
| 70° | 173.9 | 191.7 | 218.1 | 244.6 | 256.9 | 269.3 | 270.6 | 272.0 | 258.3 | 244.6 | 226.4 |
| 72.5° | 137.4 | 151.5 | 176.2 | 200.8 | 210.4 | 220.0 | 219.5 | 219.1 | 210.8 | 202.6 | 186.2 |
| 75° | 105.4 | 115.9 | 135.1 | 154.3 | 162.5 | 170.7 | 172.5 | 174.3 | 166.6 | 158.8 | 149.7 |
| 77.5° | 75.8 | 83.1 | 97.7 | 112.3 | 121.4 | 130.5 | 131.4 | 132.3 | 128.7 | 125.0 | 116.4 |
| 80° | 53.4 | 55.7 | 64.8 | 73.9 | 83.5 | 93.1 | 94.5 | 95.8 | 92.2 | 88.5 | 83.1 |
| 82.5° | 37.0 | 38.3 | 41.5 | 44.7 | 52.5 | 60.2 | 62.1 | 63.9 | 62.1 | 60.2 | 54.3 |
| 85° | 22.4 | 22.8 | 24.2 | 25.6 | 29.2 | 32.9 | 34.7 | 36.5 | 35.6 | 34.7 | 31.5 |
| 87.5° | 10.0 | 10.0 | 10.5 | 11.0 | 11.9 | 12.8 | 15.1 | 17.3 | 16.0 | 14.6 | 13.2 |
| 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° | 20.0 | 19.3 | 18.6 | 18.0 | 17.3 | 16.6 | 15.9 | 15.3 | 15.9 | 16.6 | 17.3 |
| 95° | 35.8 | 34.9 | 34.0 | 33.2 | 32.4 | 31.6 | 30.8 | 30.0 | 30.8 | 31.6 | 32.4 |
| 97.5° | 53.6 | 52.9 | 52.2 | 51.6 | 51.0 | 50.5 | 49.9 | 49.3 | 49.9 | 50.5 | 51.0 |
| 100° | 73.6 | 73.1 | 72.5 | 71.9 | 71.2 | 70.5 | 69.9 | 69.2 | 69.9 | 70.5 | 71.2 |
| 102.5° | 95.6 | 94.8 | 94.0 | 93.4 | 93.1 | 92.7 | 92.4 | 92.1 | 92.4 | 92.7 | 93.1 |
| 105° | 118.0 | 117.0 | 116.0 | 115.3 | 115.1 | 114.9 | 114.7 | 114.4 | 114.7 | 114.9 | 115.1 |
| 107.5° | 142.5 | 142.1 | 141.6 | 141.3 | 141.2 | 141.1 | 141.0 | 140.9 | 141.0 | 141.1 | 141.2 |
| 110° | 166.9 | 166.7 | 166.4 | 166.2 | 166.0 | 165.8 | 165.5 | 165.3 | 165.5 | 165.8 | 166.0 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 191.2 | 191.2 | 191.2 | 191.2 | 191.1 | 191.0 | 190.8 | 190.7 | 190.8 | 191.0 | 191.1 |
| 115° | 217.1 | 217.4 | 217.6 | 217.5 | 217.2 | 216.8 | 216.5 | 216.2 | 216.5 | 216.8 | 217.2 |
| 117.5° | 242.0 | 242.3 | 242.5 | 242.6 | 242.4 | 242.3 | 242.2 | 242.1 | 242.2 | 242.3 | 242.4 |
| 120° | 267.6 | 268.2 | 268.8 | 268.7 | 268.0 | 267.4 | 266.7 | 266.0 | 266.7 | 267.4 | 268.0 |
| 122.5° | 292.4 | 292.6 | 292.9 | 292.7 | 292.3 | 291.8 | 291.4 | 290.9 | 291.4 | 291.8 | 292.3 |
| 125° | 317.3 | 317.6 | 317.8 | 317.7 | 317.4 | 317.0 | 316.7 | 316.4 | 316.7 | 317.0 | 317.4 |
| 127.5° | 342.2 | 342.5 | 342.7 | 342.5 | 341.8 | 341.1 | 340.4 | 339.8 | 340.4 | 341.1 | 341.8 |
| 130° | 366.4 | 366.7 | 367.1 | 366.8 | 365.9 | 365.0 | 364.1 | 363.2 | 364.1 | 365.0 | 365.9 |
| 132.5° | 390.1 | 390.3 | 390.5 | 390.2 | 389.3 | 388.4 | 387.5 | 386.6 | 387.5 | 388.4 | 389.3 |
| 135° | 413.2 | 413.3 | 413.5 | 413.2 | 412.5 | 411.8 | 411.1 | 410.5 | 411.1 | 411.8 | 412.5 |
| 137.5° | 435.7 | 435.4 | 435.0 | 434.6 | 434.0 | 433.5 | 432.9 | 432.3 | 432.9 | 433.5 | 434.0 |
| 140° | 458.0 | 457.9 | 457.8 | 457.5 | 456.9 | 456.3 | 455.8 | 455.2 | 455.8 | 456.3 | 456.9 |
| 142.5° | 479.2 | 479.0 | 478.7 | 478.3 | 477.8 | 477.2 | 476.6 | 476.1 | 476.6 | 477.2 | 477.8 |
| 145° | 499.8 | 499.5 | 499.1 | 498.8 | 498.6 | 498.4 | 498.2 | 497.9 | 498.2 | 498.4 | 498.6 |
| 147.5° | 519.6 | 519.3 | 519.0 | 518.6 | 518.1 | 517.7 | 517.2 | 516.8 | 517.2 | 517.7 | 518.1 |
| 150° | 538.2 | 538.0 | 537.7 | 537.5 | 537.3 | 537.0 | 536.8 | 536.6 | 536.8 | 537.0 | 537.3 |
| 152.5° | 554.7 | 554.6 | 554.5 | 554.2 | 553.9 | 553.6 | 553.2 | 552.9 | 553.2 | 553.6 | 553.9 |
| 155° | 570.4 | 570.3 | 570.2 | 570.2 | 570.2 | 570.2 | 570.2 | 570.2 | 570.2 | 570.2 | 570.2 |
| 157.5° | 584.7 | 584.6 | 584.5 | 584.5 | 584.6 | 584.7 | 584.8 | 584.9 | 584.8 | 584.7 | 584.6 |
| 160° | 597.6 | 597.6 | 597.6 | 597.7 | 598.0 | 598.2 | 598.4 | 598.6 | 598.4 | 598.2 | 598.0 |
| 162.5° | 609.6 | 609.5 | 609.4 | 609.5 | 609.8 | 610.2 | 610.5 | 610.9 | 610.5 | 610.2 | 609.8 |
| 165° | 619.5 | 619.5 | 619.5 | 619.7 | 620.0 | 620.4 | 620.7 | 621.0 | 620.7 | 620.4 | 620.0 |
| 167.5° | 627.9 | 627.8 | 627.7 | 627.9 | 628.3 | 628.8 | 629.2 | 629.7 | 629.2 | 628.8 | 628.3 |
| 170° | 634.8 | 634.8 | 634.8 | 635.0 | 635.4 | 635.9 | 636.3 | 636.8 | 636.3 | 635.9 | 635.4 |
| 172.5° | 640.4 | 640.4 | 640.4 | 640.6 | 641.0 | 641.5 | 641.9 | 642.4 | 641.9 | 641.5 | 641.0 |
| 175° | 643.9 | 643.9 | 643.9 | 644.1 | 644.6 | 645.0 | 645.5 | 646.0 | 645.5 | 645.0 | 644.6 |
| 177.5° | 646.0 | 646.0 | 646.0 | 646.2 | 646.6 | 647.1 | 647.5 | 648.0 | 647.5 | 647.1 | 646.6 |
| 180° | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5° | 2154.9 | 2128.9 | 2102.9 | 2084.2 | 2065.5 | 2042.2 | 2018.9 | 2018.0 | 2017.1 | 1999.8 | 1982.4 |
| 5° | 2027.2 | 1982.0 | 1936.8 | 1892.5 | 1848.3 | 1804.0 | 1759.7 | 1749.7 | 1739.6 | 1724.6 | 1709.5 |
| 7.5° | 1914.0 | 1841.9 | 1769.8 | 1713.2 | 1656.6 | 1612.3 | 1568.1 | 1537.9 | 1507.8 | 1484.5 | 1461.3 |
| 10° | 1792.6 | 1703.1 | 1613.7 | 1545.2 | 1476.8 | 1428.9 | 1380.9 | 1346.3 | 1311.6 | 1295.2 | 1278.7 |
| 12.5° | 1666.6 | 1569.4 | 1472.2 | 1405.1 | 1338.1 | 1280.5 | 1223.0 | 1191.6 | 1160.1 | 1137.3 | 1114.4 |
| 15° | 1550.7 | 1446.2 | 1341.7 | 1270.5 | 1199.3 | 1145.5 | 1091.6 | 1060.1 | 1028.6 | 1005.8 | 983.0 |
| 17.5° | 1438.5 | 1333.0 | 1227.6 | 1155.5 | 1083.4 | 1034.6 | 985.7 | 955.2 | 924.6 | 910.4 | 896.3 |
| 20° | 1336.2 | 1229.9 | 1123.6 | 1055.6 | 987.6 | 939.6 | 891.7 | 875.3 | 858.9 | 845.6 | 832.4 |
| 22.5° | 1234.9 | 1132.7 | 1030.5 | 965.2 | 899.9 | 865.3 | 830.6 | 817.3 | 804.1 | 794.1 | 784.0 |
| 25° | 1150.0 | 1048.3 | 946.5 | 889.4 | 832.4 | 805.5 | 778.6 | 769.9 | 761.2 | 751.2 | 741.1 |
| 27.5° | 1064.2 | 967.5 | 870.7 | 825.1 | 779.5 | 757.6 | 735.7 | 724.7 | 713.7 | 705.5 | 697.3 |
| 30° | 988.5 | 899.0 | 809.6 | 771.7 | 733.8 | 714.7 | 695.5 | 683.6 | 671.8 | 664.0 | 656.2 |
| 32.5° | 915.5 | 836.1 | 756.6 | 724.2 | 691.8 | 673.1 | 654.4 | 643.0 | 631.6 | 622.5 | 613.3 |
| 35° | 847.9 | 779.0 | 710.1 | 680.4 | 650.8 | 632.1 | 613.3 | 601.9 | 590.5 | 581.4 | 572.3 |
| 37.5° | 788.6 | 726.1 | 663.5 | 635.7 | 607.9 | 591.4 | 575.0 | 563.1 | 551.3 | 541.7 | 532.1 |
| 40° | 732.9 | 677.7 | 622.5 | 595.6 | 568.6 | 550.8 | 533.0 | 522.5 | 512.0 | 503.4 | 494.7 |
| 42.5° | 683.6 | 633.0 | 582.3 | 555.8 | 529.4 | 512.5 | 495.6 | 483.3 | 471.0 | 465.9 | 460.9 |
| 45° | 631.6 | 586.9 | 542.2 | 516.6 | 491.0 | 473.2 | 455.4 | 445.0 | 434.5 | 429.9 | 425.3 |
| 47.5° | 586.0 | 544.4 | 502.9 | 477.8 | 452.7 | 436.7 | 420.8 | 412.6 | 404.3 | 397.9 | 391.6 |
| 50° | 541.2 | 501.1 | 460.9 | 436.7 | 412.6 | 398.9 | 385.2 | 375.1 | 365.1 | 360.5 | 356.0 |
| 52.5° | 498.3 | 461.8 | 425.3 | 400.7 | 376.0 | 362.8 | 349.6 | 340.9 | 332.2 | 322.6 | 313.1 |
| 55° | 450.0 | 418.0 | 386.1 | 364.2 | 342.3 | 328.6 | 314.9 | 304.8 | 294.8 | 284.8 | 274.7 |
| 57.5° | 409.8 | 378.3 | 346.8 | 327.2 | 307.6 | 294.4 | 281.1 | 270.2 | 259.2 | 251.0 | 242.8 |
| 60° | 366.0 | 338.6 | 311.2 | 292.1 | 272.9 | 260.1 | 247.3 | 236.9 | 226.4 | 222.2 | 218.1 |
| 62.5° | 324.9 | 299.4 | 273.8 | 256.9 | 240.0 | 227.7 | 215.4 | 208.6 | 201.7 | 199.0 | 196.2 |
| 65° | 282.9 | 261.0 | 239.1 | 223.6 | 208.1 | 197.6 | 187.1 | 183.9 | 180.7 | 178.4 | 176.2 |
| 67.5° | 243.7 | 225.0 | 206.3 | 192.6 | 178.9 | 171.6 | 164.3 | 160.6 | 157.0 | 154.3 | 151.5 |
| 70° | 208.1 | 191.7 | 175.2 | 163.4 | 151.5 | 144.7 | 137.8 | 134.6 | 131.4 | 126.4 | 121.4 |
| 72.5° | 169.8 | 157.0 | 144.2 | 135.1 | 126.0 | 120.0 | 114.1 | 107.7 | 101.3 | 96.7 | 92.2 |
| 75° | 140.6 | 127.8 | 115.0 | 106.3 | 97.7 | 90.8 | 84.0 | 81.7 | 79.4 | 78.0 | 76.7 |
| 77.5° | 107.7 | 96.7 | 85.8 | 79.0 | 72.1 | 68.9 | 65.7 | 64.3 | 63.0 | 62.5 | 62.1 |
| 80° | 77.6 | 68.5 | 59.3 | 55.7 | 52.0 | 51.1 | 50.2 | 49.3 | 48.4 | 47.9 | 47.5 |
| 82.5° | 48.4 | 43.8 | 39.2 | 38.3 | 37.4 | 37.0 | 36.5 | 36.1 | 35.6 | 35.1 | 34.7 |
| 85° | 28.3 | 26.5 | 24.6 | 24.2 | 23.7 | 23.3 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 87.5° | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.4 | 11.0 |
| 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° | 18.0 | 18.6 | 19.3 | 20.0 | 20.7 | 21.4 | 21.7 | 22.0 | 22.4 | 22.7 | 22.8 |
| 95° | 33.2 | 34.0 | 34.9 | 35.8 | 36.7 | 37.6 | 38.1 | 38.5 | 39.0 | 39.4 | 39.7 |
| 97.5° | 51.6 | 52.2 | 52.9 | 53.6 | 54.3 | 54.9 | 55.5 | 56.1 | 56.6 | 57.2 | 57.4 |
| 100° | 71.9 | 72.5 | 73.1 | 73.6 | 74.2 | 74.8 | 75.1 | 75.4 | 75.8 | 76.1 | 76.4 |
| 102.5° | 93.4 | 94.0 | 94.8 | 95.6 | 96.4 | 97.1 | 97.5 | 97.8 | 98.2 | 98.5 | 98.6 |
| 105° | 115.3 | 116.0 | 117.0 | 118.0 | 119.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 | 120.1 |
| 107.5° | 141.3 | 141.6 | 142.1 | 142.5 | 143.0 | 143.4 | 143.8 | 144.1 | 144.4 | 144.8 | 144.9 |
| 110° | 166.2 | 166.4 | 166.7 | 166.9 | 167.1 | 167.3 | 167.8 | 168.2 | 168.7 | 169.1 | 169.3 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 191.2 | 191.2 | 191.2 | 191.2 | 191.2 | 191.2 | 191.8 | 192.4 | 192.9 | 193.5 | 193.8 |
| 115° | 217.5 | 217.6 | 217.4 | 217.1 | 216.9 | 216.7 | 216.8 | 216.9 | 217.0 | 217.1 | 217.1 |
| 117.5° | 242.6 | 242.5 | 242.3 | 242.0 | 241.8 | 241.6 | 241.6 | 241.6 | 241.6 | 241.6 | 241.4 |
| 120° | 268.7 | 268.8 | 268.2 | 267.6 | 267.1 | 266.5 | 266.4 | 266.3 | 266.2 | 266.1 | 265.9 |
| 122.5° | 292.7 | 292.9 | 292.6 | 292.4 | 292.2 | 291.9 | 291.6 | 291.3 | 290.9 | 290.6 | 290.3 |
| 125° | 317.7 | 317.8 | 317.6 | 317.3 | 317.1 | 316.9 | 316.4 | 316.0 | 315.5 | 315.1 | 314.6 |
| 127.5° | 342.5 | 342.7 | 342.5 | 342.2 | 342.0 | 341.8 | 341.1 | 340.4 | 339.8 | 339.1 | 338.5 |
| 130° | 366.8 | 367.1 | 366.7 | 366.4 | 366.0 | 365.7 | 365.2 | 364.8 | 364.3 | 363.9 | 363.3 |
| 132.5° | 390.2 | 390.5 | 390.3 | 390.1 | 389.8 | 389.6 | 389.0 | 388.5 | 387.9 | 387.3 | 386.8 |
| 135° | 413.2 | 413.5 | 413.3 | 413.2 | 413.1 | 413.0 | 412.6 | 412.1 | 411.6 | 411.2 | 410.9 |
| 137.5° | 434.6 | 435.0 | 435.4 | 435.7 | 436.1 | 436.4 | 435.8 | 435.3 | 434.7 | 434.1 | 433.7 |
| 140° | 457.5 | 457.8 | 457.9 | 458.0 | 458.2 | 458.3 | 458.2 | 458.0 | 457.9 | 457.8 | 457.4 |
| 142.5° | 478.3 | 478.7 | 479.0 | 479.2 | 479.4 | 479.6 | 479.5 | 479.4 | 479.3 | 479.2 | 478.8 |
| 145° | 498.8 | 499.1 | 499.5 | 499.8 | 500.1 | 500.5 | 500.4 | 500.3 | 500.1 | 500.0 | 499.8 |
| 147.5° | 518.6 | 519.0 | 519.3 | 519.6 | 520.0 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.0 |
| 150° | 537.5 | 537.7 | 538.0 | 538.2 | 538.4 | 538.6 | 538.6 | 538.6 | 538.6 | 538.6 | 538.3 |
| 152.5° | 554.2 | 554.5 | 554.6 | 554.7 | 554.8 | 554.9 | 555.1 | 555.4 | 555.6 | 555.8 | 555.6 |
| 155° | 570.2 | 570.2 | 570.3 | 570.4 | 570.6 | 570.7 | 571.1 | 571.6 | 572.0 | 572.5 | 572.3 |
| 157.5° | 584.5 | 584.5 | 584.6 | 584.7 | 584.8 | 584.9 | 585.4 | 585.8 | 586.3 | 586.7 | 586.6 |
| 160° | 597.7 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 598.2 | 598.8 | 599.3 | 599.9 | 599.9 |
| 162.5° | 609.5 | 609.4 | 609.5 | 609.6 | 609.7 | 609.8 | 610.4 | 611.0 | 611.5 | 612.1 | 612.0 |
| 165° | 619.7 | 619.5 | 619.5 | 619.5 | 619.5 | 619.5 | 620.2 | 620.9 | 621.5 | 622.2 | 622.2 |
| 167.5° | 627.9 | 627.7 | 627.8 | 627.9 | 628.0 | 628.1 | 628.8 | 629.5 | 630.2 | 630.9 | 630.9 |
| 170° | 635.0 | 634.8 | 634.8 | 634.8 | 634.8 | 634.8 | 635.6 | 636.3 | 637.1 | 637.9 | 637.9 |
| 172.5° | 640.6 | 640.4 | 640.4 | 640.4 | 640.4 | 640.4 | 641.0 | 641.7 | 642.4 | 643.1 | 643.0 |
| 175° | 644.1 | 643.9 | 643.9 | 643.9 | 643.9 | 643.9 | 644.6 | 645.3 | 646.0 | 646.6 | 646.6 |
| 177.5° | 646.2 | 646.0 | 646.0 | 646.0 | 646.0 | 646.0 | 646.6 | 647.3 | 648.0 | 648.7 | 648.6 |
| 180° | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 | 647.5 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5° | 1977.9 | 1973.3 | 1971.5 | 1969.7 |
| 5° | 1695.4 | 1681.2 | 1678.0 | 1674.8 |
| 7.5° | 1455.3 | 1449.4 | 1429.8 | 1410.2 |
| 10° | 1260.5 | 1242.2 | 1234.0 | 1225.8 |
| 12.5° | 1097.5 | 1080.7 | 1077.9 | 1075.2 |
| 15° | 971.1 | 959.3 | 955.2 | 951.1 |
| 17.5° | 888.1 | 879.9 | 874.8 | 869.8 |
| 20° | 826.5 | 820.5 | 816.9 | 813.2 |
| 22.5° | 779.5 | 774.9 | 772.2 | 769.4 |
| 25° | 734.3 | 727.4 | 725.2 | 722.9 |
| 27.5° | 691.4 | 685.5 | 683.2 | 680.9 |
| 30° | 651.2 | 646.2 | 643.0 | 639.8 |
| 32.5° | 607.4 | 601.5 | 599.7 | 597.8 |
| 35° | 568.6 | 565.0 | 563.1 | 561.3 |
| 37.5° | 527.6 | 523.0 | 520.3 | 517.5 |
| 40° | 492.4 | 490.1 | 488.8 | 487.4 |
| 42.5° | 456.8 | 452.7 | 452.3 | 451.8 |
| 45° | 421.2 | 417.1 | 416.2 | 415.3 |
| 47.5° | 387.9 | 384.3 | 383.8 | 383.3 |
| 50° | 350.9 | 345.9 | 342.3 | 338.6 |
| 52.5° | 308.5 | 303.9 | 300.7 | 297.5 |
| 55° | 269.7 | 264.7 | 262.0 | 259.2 |
| 57.5° | 240.5 | 238.2 | 236.9 | 235.5 |
| 60° | 216.8 | 215.4 | 214.5 | 213.6 |
| 62.5° | 194.9 | 193.5 | 193.5 | 193.5 |
| 65° | 174.8 | 173.4 | 172.0 | 170.7 |
| 67.5° | 148.8 | 146.0 | 145.6 | 145.1 |
| 70° | 117.3 | 113.2 | 112.7 | 112.3 |
| 72.5° | 91.7 | 91.3 | 90.4 | 89.4 |
| 75° | 75.8 | 74.8 | 74.8 | 74.8 |
| 77.5° | 61.2 | 60.2 | 60.2 | 60.2 |
| 80° | 47.0 | 46.5 | 47.0 | 47.5 |
| 82.5° | 34.7 | 34.7 | 34.2 | 33.8 |
| 85° | 22.4 | 21.9 | 21.9 | 21.9 |
| 87.5° | 11.0 | 11.0 | 11.0 | 11.0 |
| 90° | 14.6 | 14.8 | 15.0 | 15.3 |
| 92.5° | 22.5 | 22.3 | 22.1 | 21.9 |
| 95° | 39.7 | 39.7 | 39.7 | 39.7 |
| 97.5° | 57.3 | 57.2 | 57.1 | 57.0 |
| 100° | 76.6 | 76.9 | 77.1 | 77.3 |
| 102.5° | 98.5 | 98.4 | 98.3 | 98.2 |
| 105° | 120.4 | 120.6 | 120.8 | 121.1 |
| 107.5° | 144.8 | 144.7 | 144.6 | 144.4 |
| 110° | 169.0 | 168.8 | 168.6 | 168.4 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 193.8 | 193.8 | 193.8 | 193.8 |
| 115° | 217.0 | 216.9 | 216.8 | 216.7 |
| 117.5° | 241.1 | 240.7 | 240.4 | 240.1 |
| 120° | 265.7 | 265.4 | 265.2 | 265.0 |
| 122.5° | 289.9 | 289.6 | 289.2 | 288.9 |
| 125° | 314.2 | 313.7 | 313.3 | 312.8 |
| 127.5° | 338.1 | 337.6 | 337.2 | 336.7 |
| 130° | 362.5 | 361.7 | 360.9 | 360.1 |
| 132.5° | 386.2 | 385.6 | 385.1 | 384.5 |
| 135° | 410.6 | 410.4 | 410.2 | 410.0 |
| 137.5° | 433.3 | 433.0 | 432.7 | 432.3 |
| 140° | 456.6 | 455.8 | 455.0 | 454.2 |
| 142.5° | 478.3 | 477.7 | 477.1 | 476.6 |
| 145° | 499.3 | 498.8 | 498.4 | 497.9 |
| 147.5° | 519.3 | 518.6 | 517.9 | 517.3 |
| 150° | 537.6 | 536.9 | 536.3 | 535.6 |
| 152.5° | 555.1 | 554.5 | 553.9 | 553.4 |
| 155° | 571.5 | 570.7 | 569.9 | 569.1 |
| 157.5° | 585.9 | 585.3 | 584.6 | 583.9 |
| 160° | 599.5 | 599.0 | 598.6 | 598.1 |
| 162.5° | 611.2 | 610.4 | 609.6 | 608.8 |
| 165° | 621.4 | 620.6 | 619.8 | 619.0 |
| 167.5° | 630.2 | 629.5 | 628.8 | 628.1 |
| 170° | 637.1 | 636.3 | 635.6 | 634.8 |
| 172.5° | 642.2 | 641.4 | 640.6 | 639.8 |
| 175° | 645.8 | 645.0 | 644.2 | 643.4 |
| 177.5° | 647.8 | 647.0 | 646.2 | 645.4 |
| 180° | 647.5 | 647.5 | 647.5 | 647.5 |



TEST NUMBER: P832408

CATALOG NUMBER: S123RDIP-S775D585U940-4F0-1E-UDD-G1

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 | 12.86 | 13.77 | 13.72 | 14.64 | 15.73 | 17.52 | 18.44 | 18.38 | 19.31 | 20.40 |
| | 3H | 14.09 | 14.90 | 14.96 | 15.78 | 16.90 | 19.03 | 19.84 | 19.90 | 20.72 | 21.84 |
| | 4H | 14.47 | 15.24 | 15.36 | 16.13 | 17.26 | 19.52 | 20.29 | 20.41 | 21.18 | 22.30 |
| | 6H | 14.76 | 15.47 | 15.66 | 16.36 | 17.50 | 19.84 | 20.54 | 20.74 | 21.44 | 22.58 |
| | 8H | 14.85 | 15.52 | 15.75 | 16.43 | 17.57 | 19.92 | 20.59 | 20.83 | 21.50 | 22.64 |
| | 12H | 14.90 | 15.54 | 15.81 | 16.44 | 17.61 | 19.95 | 20.59 | 20.86 | 21.50 | 22.66 |
| 4H | 2H | 13.59 | 14.36 | 14.48 | 15.25 | 16.37 | 17.53 | 18.30 | 18.42 | 19.18 | 20.31 |
| | 3H | 14.97 | 15.61 | 15.87 | 16.52 | 17.67 | 19.19 | 19.83 | 20.10 | 20.75 | 21.89 |
| | 4H | 15.43 | 16.01 | 16.34 | 16.92 | 18.09 | 19.80 | 20.38 | 20.72 | 21.30 | 22.47 |
| | 6H | 15.80 | 16.30 | 16.73 | 17.24 | 18.41 | 20.25 | 20.74 | 21.17 | 21.68 | 22.85 |
| | 8H | 15.93 | 16.39 | 16.86 | 17.32 | 18.51 | 20.38 | 20.84 | 21.31 | 21.77 | 22.96 |
| | 12H | 16.01 | 16.42 | 16.95 | 17.37 | 18.56 | 20.44 | 20.86 | 21.39 | 21.81 | 23.00 |
| 8H | 4H | 15.75 | 16.21 | 16.68 | 17.14 | 18.33 | 19.78 | 20.24 | 20.70 | 21.17 | 22.36 |
| | 6H | 16.21 | 16.60 | 17.17 | 17.57 | 18.75 | 20.28 | 20.66 | 21.23 | 21.63 | 22.81 |
| | 8H | 16.41 | 16.75 | 17.37 | 17.71 | 18.91 | 20.46 | 20.80 | 21.43 | 21.76 | 22.96 |
| | 12H | 16.55 | 16.85 | 17.52 | 17.80 | 19.05 | 20.58 | 20.88 | 21.55 | 21.83 | 23.08 |
| 12H | 4H | 15.76 | 16.18 | 16.71 | 17.13 | 18.32 | 19.73 | 20.15 | 20.68 | 21.10 | 22.29 |
| | 6H | 16.27 | 16.61 | 17.24 | 17.58 | 18.78 | 20.25 | 20.59 | 21.21 | 21.55 | 22.75 |
| | 8H | 16.49 | 16.79 | 17.46 | 17.75 | 19.00 | 20.45 | 20.74 | 21.41 | 21.70 | 22.95 |