

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: P832401

Luminaire Tested: S123RDIP-S775D585U930-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832401
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-S775D585U930-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

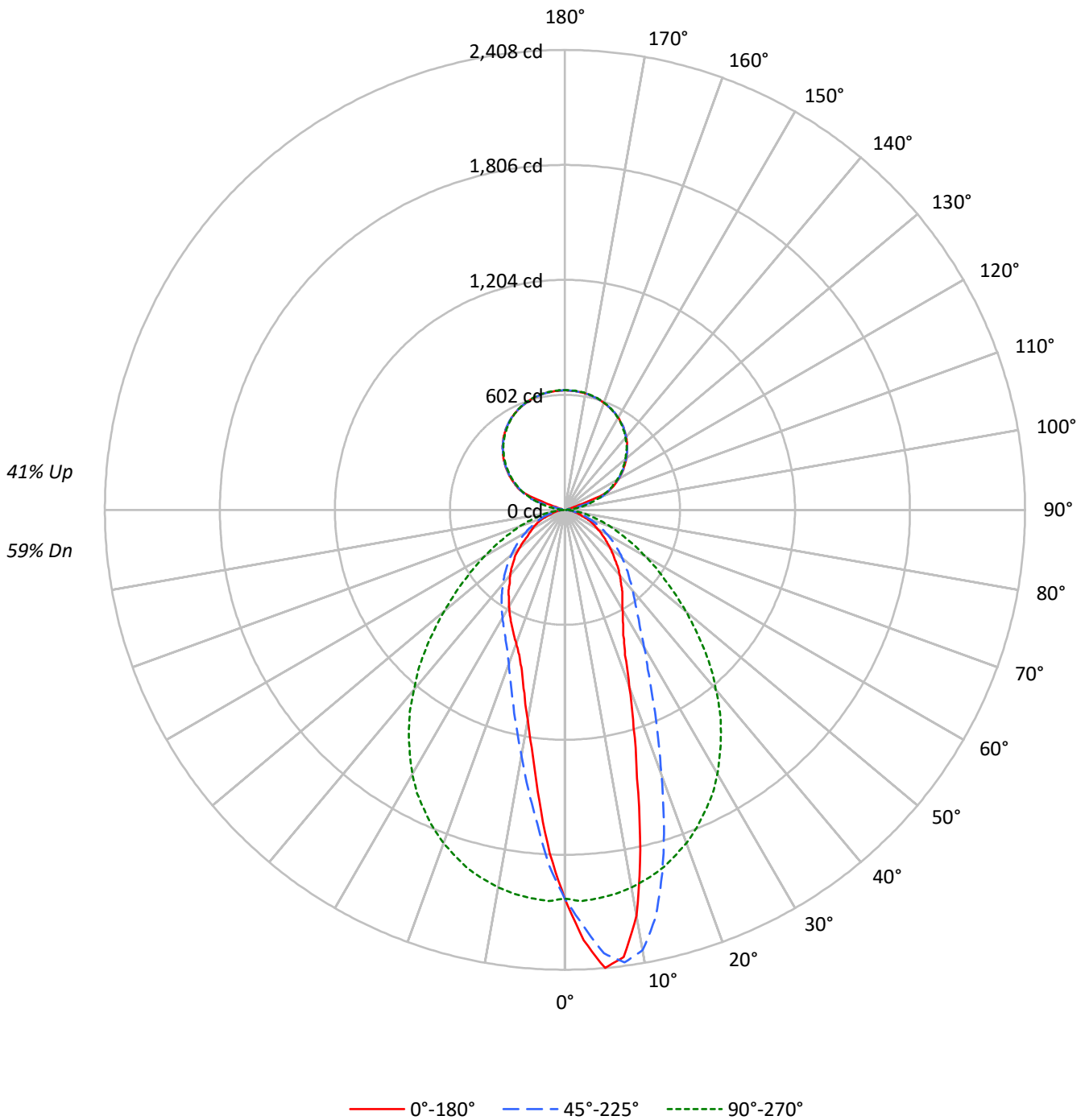
Lumens per Lamp: N/A
Luminaire Lumens: 4607.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 | | | | |
| 1 | 101 | 97 | 93 | 90 | 94 | 90 | 87 | 84 | 79 | 76 | 74 | 68 | 66 | 65 | 58 | 57 | 56 | 51 | | | | |
| 2 | 92 | 86 | 80 | 75 | 86 | 80 | 75 | 71 | 70 | 66 | 63 | 61 | 58 | 56 | 52 | 50 | 49 | 44 | | | | |
| 3 | 85 | 76 | 69 | 64 | 79 | 72 | 65 | 61 | 63 | 58 | 54 | 55 | 51 | 48 | 47 | 45 | 43 | 39 | | | | |
| 4 | 78 | 68 | 61 | 55 | 73 | 64 | 58 | 52 | 57 | 51 | 47 | 50 | 46 | 42 | 43 | 40 | 38 | 34 | | | | |
| 5 | 73 | 61 | 54 | 48 | 68 | 58 | 51 | 46 | 51 | 46 | 42 | 45 | 41 | 38 | 39 | 36 | 34 | 31 | | | | |
| 6 | 67 | 56 | 48 | 43 | 63 | 53 | 46 | 41 | 47 | 41 | 37 | 41 | 37 | 34 | 36 | 33 | 30 | 28 | | | | |
| 7 | 63 | 51 | 43 | 38 | 59 | 48 | 41 | 36 | 43 | 37 | 33 | 38 | 34 | 30 | 34 | 30 | 28 | 25 | | | | |
| 8 | 58 | 47 | 39 | 34 | 55 | 44 | 38 | 33 | 40 | 34 | 30 | 35 | 31 | 28 | 31 | 28 | 25 | 23 | | | | |
| 9 | 55 | 43 | 36 | 31 | 51 | 41 | 34 | 30 | 37 | 31 | 28 | 33 | 28 | 25 | 29 | 26 | 23 | 21 | | | | |
| 10 | 51 | 40 | 33 | 28 | 48 | 38 | 32 | 27 | 34 | 29 | 25 | 31 | 26 | 23 | 27 | 24 | 21 | 20 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 21909 | 21909 | 21909 | 21909 | 21909 |
| 5° | 26014 | 25184 | 22047 | 17822 | 16546 |
| 10° | 23569 | 25580 | 21936 | 14279 | 12249 |
| 15° | 16227 | 21933 | 21704 | 11671 | 9690 |
| 20° | 11290 | 16887 | 21269 | 9841 | 8517 |
| 25° | 8603 | 12870 | 20635 | 8747 | 7849 |
| 30° | 7489 | 10289 | 19842 | 8121 | 7271 |
| 35° | 6875 | 8679 | 18718 | 7594 | 6744 |
| 40° | 6274 | 7751 | 17249 | 7076 | 6261 |
| 45° | 5666 | 7089 | 15664 | 6587 | 5780 |
| 50° | 5143 | 6541 | 13793 | 6107 | 5184 |
| 55° | 4650 | 6005 | 11995 | 5637 | 4448 |
| 60° | 4168 | 5462 | 10419 | 5119 | 4204 |
| 65° | 3846 | 4847 | 8970 | 4602 | 3976 |
| 70° | 3125 | 4189 | 7827 | 4164 | 3229 |
| 75° | 2741 | 3331 | 6629 | 3452 | 2845 |
| 80° | 2486 | 2820 | 5430 | 2895 | 2690 |
| 85° | 2272 | 2470 | 4125 | 2631 | 2470 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 16527 cd/sqm



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.5 | 4.0 |
| 10°-20° | 429.3 | 9.3 |
| 20°-30° | 492.6 | 10.7 |
| 30°-40° | 485.5 | 10.5 |
| 40°-50° | 428.1 | 9.3 |
| 50°-60° | 329.4 | 7.1 |
| 60°-70° | 216.5 | 4.7 |
| 70°-80° | 105.2 | 2.3 |
| 80°-90° | 27.8 | 0.6 |
| 90°-100° | 22.1 | 0.5 |
| 100°-110° | 106.7 | 2.3 |
| 110°-120° | 261.5 | 5.7 |
| 120°-130° | 332.0 | 7.2 |
| 130°-140° | 354.6 | 7.7 |
| 140°-150° | 331.6 | 7.2 |
| 150°-160° | 267.5 | 5.8 |
| 160°-170° | 172.6 | 3.7 |
| 170°-180° | 59.5 | 1.3 |
| 0°-30° | 1107.4 | 24.0 |
| 0°-40° | 1592.9 | 34.6 |
| 0°-60° | 2350.4 | 51.0 |
| 0°-90° | 2699.8 | 58.6 |
| 90°-120° | 390.2 | 8.5 |
| 90°-150° | 1408.4 | 30.6 |
| 90°-180° | 1908.0 | 41.4 |
| 0°-180° | 4607.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2035 | 2035 | 2035 | 2035 | 2035 | |
| 5° | 2408 | 2331 | 2040 | 1649 | 1531 | 220 |
| 15° | 1456 | 1968 | 1948 | 1047 | 870 | 411 |
| 25° | 724 | 1084 | 1737 | 736 | 661 | 342 |
| 35° | 523 | 660 | 1424 | 578 | 513 | 326 |
| 45° | 372 | 466 | 1029 | 433 | 380 | 289 |
| 55° | 248 | 320 | 639 | 300 | 237 | 222 |
| 65° | 151 | 190 | 352 | 181 | 156 | 148 |
| 75° | 66 | 80 | 159 | 83 | 68 | 71 |
| 85° | 18 | 20 | 33 | 21 | 20 | 20 |
| 90° | 14 | 11 | 0 | 11 | 14 | 7 |
| 95° | 18 | 14 | 28 | 14 | 18 | 15 |
| 105° | 20 | 102 | 139 | 102 | 20 | 43 |
| 115° | 273 | 267 | 260 | 267 | 273 | 257 |
| 125° | 374 | 372 | 366 | 372 | 374 | 334 |
| 135° | 461 | 461 | 456 | 461 | 461 | 355 |
| 145° | 532 | 531 | 526 | 531 | 532 | 332 |
| 155° | 579 | 579 | 580 | 579 | 579 | 267 |
| 165° | 610 | 610 | 612 | 610 | 610 | 172 |
| 175° | 624 | 624 | 626 | 624 | 624 | 59 |
| 180° | 626 | 626 | 626 | 626 | 626 | |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 |
| 2.5° | 2255.7 | 2248.6 | 2241.5 | 2239.4 | 2237.3 | 2230.6 | 2224.0 | 2208.9 | 2193.9 | 2178.5 | 2163.0 |
| 5° | 2407.6 | 2408.4 | 2409.2 | 2407.1 | 2405.1 | 2396.3 | 2387.5 | 2369.2 | 2350.8 | 2330.8 | 2310.8 |
| 7.5° | 2360.8 | 2374.2 | 2387.5 | 2390.0 | 2392.5 | 2399.2 | 2405.9 | 2401.7 | 2397.5 | 2390.0 | 2382.5 |
| 10° | 2156.4 | 2155.5 | 2154.7 | 2169.7 | 2184.7 | 2229.4 | 2274.0 | 2297.0 | 2319.9 | 2340.4 | 2360.8 |
| 12.5° | 1822.6 | 1823.8 | 1825.1 | 1874.3 | 1923.5 | 1965.7 | 2007.8 | 2066.2 | 2124.7 | 2187.7 | 2250.7 |
| 15° | 1456.2 | 1476.7 | 1497.1 | 1540.9 | 1584.7 | 1648.2 | 1711.6 | 1790.0 | 1868.5 | 1968.2 | 2067.9 |
| 17.5° | 1195.9 | 1204.6 | 1213.4 | 1255.5 | 1297.7 | 1357.7 | 1417.8 | 1506.7 | 1595.6 | 1724.1 | 1852.6 |
| 20° | 985.6 | 993.5 | 1001.4 | 1031.9 | 1062.3 | 1119.9 | 1177.5 | 1262.2 | 1346.9 | 1474.2 | 1601.4 |
| 22.5° | 822.8 | 838.3 | 853.7 | 874.1 | 894.6 | 936.3 | 978.0 | 1064.4 | 1150.8 | 1266.8 | 1382.8 |
| 25° | 724.4 | 731.4 | 738.5 | 756.1 | 773.6 | 813.6 | 853.7 | 910.9 | 968.0 | 1083.6 | 1199.2 |
| 27.5° | 657.6 | 659.7 | 661.8 | 674.7 | 687.6 | 713.5 | 739.4 | 792.4 | 845.4 | 940.5 | 1035.6 |
| 30° | 602.5 | 606.3 | 610.0 | 620.0 | 630.1 | 648.8 | 667.6 | 705.2 | 742.7 | 827.8 | 913.0 |
| 32.5° | 560.0 | 562.0 | 564.1 | 572.5 | 580.8 | 594.6 | 608.4 | 638.0 | 667.6 | 732.7 | 797.8 |
| 35° | 523.2 | 523.7 | 524.1 | 530.3 | 536.6 | 549.9 | 563.3 | 587.9 | 612.5 | 660.5 | 708.5 |
| 37.5° | 481.5 | 484.4 | 487.4 | 491.9 | 496.5 | 508.2 | 519.9 | 539.9 | 560.0 | 599.6 | 639.2 |
| 40° | 446.5 | 449.0 | 451.5 | 456.9 | 462.3 | 471.5 | 480.7 | 499.0 | 517.4 | 551.6 | 585.8 |
| 42.5° | 411.4 | 413.1 | 414.8 | 420.2 | 425.6 | 436.9 | 448.1 | 462.7 | 477.3 | 505.7 | 534.1 |
| 45° | 372.2 | 376.4 | 380.5 | 386.4 | 392.2 | 401.8 | 411.4 | 426.4 | 441.5 | 465.7 | 489.9 |
| 47.5° | 339.6 | 341.7 | 343.8 | 348.8 | 353.8 | 365.5 | 377.2 | 390.6 | 403.9 | 426.4 | 449.0 |
| 50° | 307.1 | 307.9 | 308.8 | 313.4 | 317.9 | 328.4 | 338.8 | 354.2 | 369.7 | 390.6 | 411.4 |
| 52.5° | 276.2 | 278.3 | 280.4 | 285.0 | 289.6 | 296.7 | 303.8 | 319.6 | 335.5 | 355.9 | 376.4 |
| 55° | 247.8 | 249.1 | 250.4 | 253.7 | 257.0 | 265.4 | 273.7 | 287.5 | 301.3 | 320.0 | 338.8 |
| 57.5° | 221.1 | 222.8 | 224.5 | 227.0 | 229.5 | 237.0 | 244.5 | 256.6 | 268.7 | 287.5 | 306.3 |
| 60° | 193.6 | 195.7 | 197.8 | 200.7 | 203.6 | 209.5 | 215.3 | 226.2 | 237.0 | 253.7 | 270.4 |
| 62.5° | 173.6 | 174.0 | 174.4 | 176.9 | 179.4 | 183.6 | 187.8 | 196.5 | 205.3 | 222.0 | 238.7 |
| 65° | 151.0 | 152.3 | 153.5 | 154.8 | 156.1 | 159.4 | 162.7 | 170.2 | 177.8 | 190.3 | 202.8 |
| 67.5° | 127.7 | 128.9 | 130.2 | 132.3 | 134.4 | 137.3 | 140.2 | 145.2 | 150.2 | 161.9 | 173.6 |
| 70° | 99.3 | 99.3 | 99.3 | 102.6 | 106.0 | 111.0 | 116.0 | 119.8 | 123.5 | 133.1 | 142.7 |
| 72.5° | 80.9 | 81.4 | 81.8 | 82.2 | 82.6 | 85.5 | 88.5 | 94.7 | 101.0 | 106.8 | 112.7 |
| 75° | 65.9 | 66.3 | 66.8 | 67.2 | 67.6 | 68.4 | 69.3 | 71.4 | 73.4 | 80.1 | 86.8 |
| 77.5° | 52.6 | 53.0 | 53.4 | 53.8 | 54.2 | 55.1 | 55.9 | 56.7 | 57.6 | 60.1 | 62.6 |
| 80° | 40.1 | 40.5 | 40.9 | 41.3 | 41.7 | 42.1 | 42.6 | 43.4 | 44.2 | 45.5 | 46.7 |
| 82.5° | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 30.0 | 30.9 | 30.9 | 30.9 | 31.7 | 32.5 |
| 85° | 18.4 | 18.4 | 18.4 | 18.8 | 19.2 | 19.2 | 19.2 | 19.6 | 20.0 | 20.0 | 20.0 |
| 87.5° | 8.3 | 7.9 | 7.5 | 7.9 | 8.3 | 8.3 | 8.3 | 8.8 | 9.2 | 9.2 | 9.2 |
| 90° | 14.0 | 13.7 | 13.5 | 13.3 | 13.1 | 12.8 | 12.4 | 12.0 | 11.6 | 11.2 | 9.8 |
| 92.5° | 15.8 | 15.7 | 15.6 | 15.5 | 15.4 | 15.0 | 14.3 | 13.5 | 12.8 | 12.1 | 11.2 |
| 95° | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 17.3 | 16.6 | 15.9 | 15.1 | 14.4 | 13.3 |
| 97.5° | 19.1 | 19.0 | 18.9 | 18.8 | 18.7 | 18.2 | 17.4 | 16.5 | 15.7 | 14.9 | 20.2 |
| 100° | 19.5 | 19.4 | 19.3 | 19.2 | 19.1 | 18.7 | 17.8 | 17.0 | 16.2 | 15.3 | 31.5 |
| 102.5° | 20.0 | 19.8 | 19.6 | 19.4 | 19.2 | 20.8 | 24.2 | 27.6 | 31.0 | 34.4 | 52.4 |
| 105° | 20.5 | 20.3 | 20.0 | 19.8 | 19.6 | 28.7 | 47.0 | 65.3 | 83.5 | 101.8 | 111.1 |
| 107.5° | 48.4 | 61.9 | 75.4 | 89.0 | 102.5 | 117.2 | 133.1 | 149.1 | 165.0 | 180.9 | 179.3 |
| 110° | 127.9 | 142.7 | 157.4 | 172.2 | 187.0 | 196.1 | 199.5 | 202.9 | 206.3 | 209.7 | 208.6 |

TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 242.3 | 242.5 | 242.7 | 242.9 | 243.1 | 242.7 | 241.8 | 240.9 | 239.9 | 239.0 | 237.9 |
| 115° | 273.4 | 273.0 | 272.6 | 272.2 | 271.8 | 271.0 | 270.0 | 269.0 | 267.9 | 266.9 | 266.0 |
| 117.5° | 298.5 | 298.4 | 298.3 | 298.2 | 298.1 | 297.7 | 296.8 | 296.0 | 295.2 | 294.4 | 293.8 |
| 120° | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.2 | 323.3 | 322.5 | 321.7 | 320.9 | 320.5 |
| 122.5° | 350.2 | 350.0 | 349.9 | 349.8 | 349.7 | 349.4 | 348.9 | 348.4 | 347.9 | 347.4 | 346.9 |
| 125° | 373.9 | 373.7 | 373.5 | 373.2 | 373.0 | 372.8 | 372.6 | 372.4 | 372.2 | 372.0 | 371.6 |
| 127.5° | 397.1 | 397.3 | 397.5 | 397.7 | 397.9 | 397.9 | 397.6 | 397.3 | 397.0 | 396.7 | 396.1 |
| 130° | 419.4 | 419.6 | 419.9 | 420.1 | 420.3 | 420.2 | 419.7 | 419.3 | 418.9 | 418.5 | 418.1 |
| 132.5° | 439.9 | 440.2 | 440.5 | 440.8 | 441.1 | 441.1 | 440.7 | 440.3 | 439.8 | 439.4 | 439.1 |
| 135° | 460.8 | 461.1 | 461.4 | 461.8 | 462.1 | 462.1 | 461.8 | 461.4 | 461.1 | 460.8 | 460.4 |
| 137.5° | 480.8 | 481.0 | 481.2 | 481.4 | 481.6 | 481.5 | 481.0 | 480.5 | 479.9 | 479.4 | 479.2 |
| 140° | 498.5 | 498.7 | 498.9 | 499.1 | 499.3 | 499.2 | 498.8 | 498.4 | 498.0 | 497.6 | 497.3 |
| 142.5° | 514.8 | 515.1 | 515.4 | 515.7 | 516.0 | 516.0 | 515.7 | 515.4 | 515.1 | 514.8 | 514.5 |
| 145° | 531.5 | 531.5 | 531.5 | 531.5 | 531.5 | 531.4 | 531.2 | 531.0 | 530.8 | 530.6 | 530.4 |
| 147.5° | 543.6 | 544.1 | 544.6 | 545.1 | 545.7 | 545.8 | 545.6 | 545.4 | 545.2 | 545.0 | 544.8 |
| 150° | 557.5 | 557.9 | 558.2 | 558.5 | 558.8 | 558.8 | 558.6 | 558.4 | 558.2 | 558.0 | 557.8 |
| 152.5° | 568.7 | 569.2 | 569.7 | 570.3 | 570.8 | 570.8 | 570.4 | 570.0 | 569.6 | 569.2 | 569.1 |
| 155° | 578.9 | 579.6 | 580.2 | 580.8 | 581.4 | 581.5 | 581.0 | 580.4 | 579.9 | 579.4 | 579.3 |
| 157.5° | 587.8 | 588.6 | 589.4 | 590.3 | 591.1 | 591.2 | 590.6 | 589.9 | 589.3 | 588.7 | 588.8 |
| 160° | 596.1 | 596.9 | 597.6 | 598.3 | 599.0 | 599.1 | 598.5 | 597.8 | 597.2 | 596.6 | 596.7 |
| 162.5° | 604.0 | 604.7 | 605.3 | 605.9 | 606.5 | 606.5 | 605.8 | 605.0 | 604.3 | 603.6 | 603.7 |
| 165° | 610.1 | 610.8 | 611.5 | 612.3 | 613.0 | 612.9 | 612.1 | 611.3 | 610.5 | 609.6 | 609.7 |
| 167.5° | 614.7 | 615.6 | 616.4 | 617.2 | 618.0 | 618.0 | 617.2 | 616.4 | 615.6 | 614.7 | 614.7 |
| 170° | 618.9 | 619.8 | 620.6 | 621.4 | 622.2 | 622.2 | 621.4 | 620.6 | 619.8 | 618.9 | 618.9 |
| 172.5° | 621.3 | 622.2 | 623.1 | 624.0 | 625.0 | 625.0 | 624.2 | 623.4 | 622.5 | 621.7 | 621.6 |
| 175° | 623.6 | 624.4 | 625.2 | 626.1 | 626.9 | 626.9 | 626.2 | 625.5 | 624.8 | 624.0 | 623.9 |
| 177.5° | 624.0 | 625.1 | 626.1 | 627.1 | 628.2 | 628.3 | 627.5 | 626.6 | 625.8 | 625.0 | 624.9 |
| 180° | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 |
| 2.5° | 2161.0 | 2158.9 | 2138.8 | 2118.8 | 2099.2 | 2079.6 | 2065.0 | 2050.4 | 2025.8 | 2001.2 | 1985.7 |
| 5° | 2294.9 | 2279.0 | 2247.3 | 2215.6 | 2168.1 | 2120.5 | 2080.4 | 2040.4 | 1989.5 | 1938.6 | 1896.0 |
| 7.5° | 2369.6 | 2356.7 | 2318.3 | 2279.9 | 2216.9 | 2153.9 | 2091.3 | 2028.7 | 1953.6 | 1878.5 | 1814.2 |
| 10° | 2371.7 | 2382.5 | 2350.8 | 2319.1 | 2248.2 | 2177.2 | 2092.1 | 2007.0 | 1906.0 | 1805.0 | 1722.0 |
| 12.5° | 2297.4 | 2344.1 | 2337.5 | 2330.8 | 2258.6 | 2186.4 | 2082.9 | 1979.5 | 1855.5 | 1731.6 | 1627.7 |
| 15° | 2158.5 | 2249.0 | 2275.7 | 2302.4 | 2242.7 | 2183.1 | 2065.4 | 1947.7 | 1802.1 | 1656.5 | 1537.2 |
| 17.5° | 1979.5 | 2106.3 | 2176.8 | 2247.3 | 2203.9 | 2160.5 | 2031.6 | 1902.7 | 1738.7 | 1574.7 | 1445.0 |
| 20° | 1767.5 | 1933.6 | 2044.1 | 2154.7 | 2138.8 | 2123.0 | 1989.9 | 1856.8 | 1679.9 | 1503.0 | 1362.3 |
| 22.5° | 1558.0 | 1733.3 | 1886.0 | 2038.7 | 2055.0 | 2071.3 | 1936.9 | 1802.5 | 1608.9 | 1415.3 | 1272.2 |
| 25° | 1377.4 | 1555.5 | 1737.4 | 1919.4 | 1956.1 | 1992.8 | 1865.1 | 1737.4 | 1536.7 | 1336.1 | 1193.8 |
| 27.5° | 1205.0 | 1374.4 | 1574.7 | 1775.0 | 1841.8 | 1908.5 | 1791.7 | 1674.9 | 1465.8 | 1256.8 | 1114.9 |
| 30° | 1064.4 | 1215.9 | 1420.3 | 1624.8 | 1717.8 | 1810.9 | 1703.7 | 1596.4 | 1389.0 | 1181.7 | 1042.7 |
| 32.5° | 933.4 | 1069.0 | 1274.3 | 1479.6 | 1587.7 | 1695.7 | 1603.1 | 1510.5 | 1311.0 | 1111.6 | 974.3 |
| 35° | 829.9 | 951.3 | 1142.9 | 1334.4 | 1455.4 | 1576.4 | 1500.4 | 1424.5 | 1229.7 | 1034.8 | 905.0 |
| 37.5° | 741.0 | 842.9 | 1022.7 | 1202.5 | 1331.0 | 1459.6 | 1396.1 | 1332.7 | 1149.5 | 966.4 | 843.7 |
| 40° | 667.6 | 749.4 | 916.7 | 1084.0 | 1210.0 | 1336.1 | 1281.8 | 1227.6 | 1063.6 | 899.6 | 784.9 |
| 42.5° | 604.6 | 675.1 | 825.3 | 975.5 | 1091.1 | 1206.7 | 1170.8 | 1134.9 | 986.4 | 837.8 | 731.4 |
| 45° | 549.1 | 608.4 | 740.6 | 872.9 | 979.3 | 1085.7 | 1057.3 | 1029.0 | 900.9 | 772.8 | 675.1 |
| 47.5° | 499.9 | 550.8 | 668.9 | 786.9 | 882.5 | 978.0 | 951.8 | 925.5 | 819.5 | 713.5 | 624.6 |
| 50° | 454.8 | 498.2 | 596.7 | 695.1 | 781.1 | 867.1 | 845.4 | 823.7 | 736.0 | 648.4 | 571.6 |
| 52.5° | 412.2 | 448.1 | 536.6 | 625.0 | 694.3 | 763.6 | 746.9 | 730.2 | 662.6 | 595.0 | 525.3 |
| 55° | 371.8 | 404.7 | 479.4 | 554.1 | 613.4 | 672.6 | 655.9 | 639.2 | 586.7 | 534.1 | 472.7 |
| 57.5° | 335.1 | 363.8 | 424.3 | 484.9 | 532.0 | 579.1 | 571.2 | 563.3 | 519.5 | 475.7 | 425.2 |
| 60° | 296.3 | 322.1 | 374.3 | 426.4 | 464.4 | 502.4 | 493.2 | 484.0 | 452.7 | 421.4 | 378.0 |
| 62.5° | 261.6 | 284.6 | 326.3 | 368.0 | 398.9 | 429.8 | 423.1 | 416.4 | 392.6 | 368.9 | 333.0 |
| 65° | 225.3 | 247.8 | 281.6 | 315.4 | 339.6 | 363.8 | 358.0 | 352.2 | 334.2 | 316.3 | 287.5 |
| 67.5° | 192.4 | 211.1 | 240.3 | 269.5 | 285.8 | 302.1 | 298.8 | 295.4 | 281.6 | 267.9 | 245.3 |
| 70° | 159.0 | 175.2 | 199.4 | 223.6 | 234.9 | 246.2 | 247.4 | 248.7 | 236.2 | 223.6 | 207.0 |
| 72.5° | 125.6 | 138.5 | 161.1 | 183.6 | 192.4 | 201.1 | 200.7 | 200.3 | 192.8 | 185.3 | 170.2 |
| 75° | 96.4 | 106.0 | 123.5 | 141.0 | 148.5 | 156.1 | 157.7 | 159.4 | 152.3 | 145.2 | 136.9 |
| 77.5° | 69.3 | 75.9 | 89.3 | 102.6 | 111.0 | 119.3 | 120.2 | 121.0 | 117.7 | 114.3 | 106.4 |
| 80° | 48.8 | 50.9 | 59.3 | 67.6 | 76.4 | 85.1 | 86.4 | 87.6 | 84.3 | 80.9 | 75.9 |
| 82.5° | 33.8 | 35.0 | 38.0 | 40.9 | 48.0 | 55.1 | 56.7 | 58.4 | 56.7 | 55.1 | 49.7 |
| 85° | 20.4 | 20.9 | 22.1 | 23.4 | 26.7 | 30.0 | 31.7 | 33.4 | 32.5 | 31.7 | 28.8 |
| 87.5° | 9.2 | 9.2 | 9.6 | 10.0 | 10.8 | 11.7 | 13.8 | 15.9 | 14.6 | 13.4 | 12.1 |
| 90° | 8.5 | 7.1 | 5.8 | 4.6 | 3.6 | 2.5 | 1.5 | 0.5 | 1.5 | 2.5 | 3.6 |
| 92.5° | 10.2 | 9.3 | 8.4 | 8.2 | 8.8 | 9.5 | 10.1 | 10.7 | 10.1 | 9.5 | 8.8 |
| 95° | 12.1 | 11.0 | 9.9 | 11.4 | 15.7 | 19.9 | 24.1 | 28.4 | 24.1 | 19.9 | 15.7 |
| 97.5° | 25.4 | 30.7 | 36.0 | 40.0 | 42.9 | 45.8 | 48.7 | 51.6 | 48.7 | 45.8 | 42.9 |
| 100° | 47.6 | 63.7 | 79.8 | 86.9 | 84.8 | 82.7 | 80.7 | 78.6 | 80.7 | 82.7 | 84.8 |
| 102.5° | 70.4 | 88.4 | 106.3 | 114.7 | 113.3 | 112.0 | 110.6 | 109.3 | 110.6 | 112.0 | 113.3 |
| 105° | 120.4 | 129.7 | 139.0 | 143.1 | 142.0 | 140.8 | 139.7 | 138.6 | 139.7 | 140.8 | 142.0 |
| 107.5° | 177.8 | 176.2 | 174.7 | 173.4 | 172.5 | 171.6 | 170.7 | 169.7 | 170.7 | 171.6 | 172.5 |
| 110° | 207.4 | 206.3 | 205.2 | 204.2 | 203.4 | 202.5 | 201.7 | 200.9 | 201.7 | 202.5 | 203.4 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 236.7 | 235.6 | 234.5 | 233.5 | 232.8 | 232.1 | 231.4 | 230.6 | 231.4 | 232.1 | 232.8 |
| 115° | 265.1 | 264.1 | 263.2 | 262.4 | 261.8 | 261.2 | 260.6 | 259.9 | 260.6 | 261.2 | 261.8 |
| 117.5° | 293.3 | 292.8 | 292.3 | 291.7 | 290.9 | 290.2 | 289.5 | 288.8 | 289.5 | 290.2 | 290.9 |
| 120° | 320.2 | 319.9 | 319.6 | 319.0 | 318.1 | 317.1 | 316.2 | 315.3 | 316.2 | 317.1 | 318.1 |
| 122.5° | 346.5 | 346.1 | 345.7 | 345.1 | 344.4 | 343.7 | 343.0 | 342.2 | 343.0 | 343.7 | 344.4 |
| 125° | 371.2 | 370.8 | 370.4 | 369.7 | 368.9 | 368.1 | 367.3 | 366.4 | 367.3 | 368.1 | 368.9 |
| 127.5° | 395.6 | 395.1 | 394.6 | 393.9 | 393.1 | 392.3 | 391.4 | 390.6 | 391.4 | 392.3 | 393.1 |
| 130° | 417.7 | 417.3 | 416.9 | 416.2 | 415.4 | 414.6 | 413.8 | 412.9 | 413.8 | 414.6 | 415.4 |
| 132.5° | 438.8 | 438.5 | 438.2 | 437.6 | 436.8 | 436.0 | 435.1 | 434.3 | 435.1 | 436.0 | 436.8 |
| 135° | 460.0 | 459.6 | 459.2 | 458.7 | 458.0 | 457.4 | 456.8 | 456.2 | 456.8 | 457.4 | 458.0 |
| 137.5° | 479.0 | 478.8 | 478.6 | 478.1 | 477.3 | 476.4 | 475.6 | 474.8 | 475.6 | 476.4 | 477.3 |
| 140° | 496.9 | 496.6 | 496.3 | 495.9 | 495.2 | 494.6 | 494.0 | 493.4 | 494.0 | 494.6 | 495.2 |
| 142.5° | 514.1 | 513.8 | 513.5 | 513.1 | 512.4 | 511.8 | 511.2 | 510.6 | 511.2 | 511.8 | 512.4 |
| 145° | 530.2 | 530.0 | 529.7 | 529.3 | 528.6 | 527.8 | 527.1 | 526.4 | 527.1 | 527.8 | 528.6 |
| 147.5° | 544.6 | 544.4 | 544.2 | 543.8 | 543.3 | 542.8 | 542.3 | 541.7 | 542.3 | 542.8 | 543.3 |
| 150° | 557.6 | 557.4 | 557.2 | 556.9 | 556.6 | 556.3 | 556.0 | 555.7 | 556.0 | 556.3 | 556.6 |
| 152.5° | 569.0 | 568.9 | 568.8 | 568.7 | 568.6 | 568.4 | 568.3 | 568.2 | 568.3 | 568.4 | 568.6 |
| 155° | 579.2 | 579.1 | 579.0 | 579.0 | 579.2 | 579.5 | 579.7 | 579.9 | 579.7 | 579.5 | 579.2 |
| 157.5° | 588.9 | 589.0 | 589.1 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 |
| 160° | 596.8 | 596.9 | 597.0 | 597.1 | 597.2 | 597.3 | 597.4 | 597.5 | 597.4 | 597.3 | 597.2 |
| 162.5° | 603.8 | 603.9 | 604.0 | 604.2 | 604.5 | 604.8 | 605.1 | 605.4 | 605.1 | 604.8 | 604.5 |
| 165° | 609.8 | 609.9 | 610.0 | 610.2 | 610.6 | 610.9 | 611.2 | 611.5 | 611.2 | 610.9 | 610.6 |
| 167.5° | 614.7 | 614.7 | 614.7 | 614.9 | 615.4 | 615.8 | 616.2 | 616.6 | 616.2 | 615.8 | 615.4 |
| 170° | 618.9 | 618.9 | 618.9 | 619.1 | 619.5 | 620.0 | 620.4 | 620.8 | 620.4 | 620.0 | 619.5 |
| 172.5° | 621.5 | 621.4 | 621.3 | 621.5 | 622.0 | 622.5 | 623.1 | 623.6 | 623.1 | 622.5 | 622.0 |
| 175° | 623.8 | 623.7 | 623.6 | 623.8 | 624.4 | 624.9 | 625.4 | 625.9 | 625.4 | 624.9 | 624.4 |
| 177.5° | 624.8 | 624.7 | 624.6 | 624.8 | 625.3 | 625.8 | 626.3 | 626.8 | 626.3 | 625.8 | 625.3 |
| 180° | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 | 2035.4 |
| 2.5° | 1970.3 | 1946.5 | 1922.7 | 1905.6 | 1888.5 | 1867.2 | 1845.9 | 1845.1 | 1844.3 | 1828.4 | 1812.6 |
| 5° | 1853.4 | 1812.1 | 1770.8 | 1730.4 | 1689.9 | 1649.4 | 1608.9 | 1599.8 | 1590.6 | 1576.8 | 1563.0 |
| 7.5° | 1750.0 | 1684.0 | 1618.1 | 1566.4 | 1514.6 | 1474.2 | 1433.7 | 1406.1 | 1378.6 | 1357.3 | 1336.1 |
| 10° | 1639.0 | 1557.2 | 1475.4 | 1412.8 | 1350.2 | 1306.4 | 1262.6 | 1230.9 | 1199.2 | 1184.2 | 1169.1 |
| 12.5° | 1523.8 | 1434.9 | 1346.1 | 1284.7 | 1223.4 | 1170.8 | 1118.2 | 1089.5 | 1060.7 | 1039.8 | 1018.9 |
| 15° | 1417.8 | 1322.3 | 1226.7 | 1161.6 | 1096.5 | 1047.3 | 998.1 | 969.3 | 940.5 | 919.6 | 898.8 |
| 17.5° | 1315.2 | 1218.8 | 1122.4 | 1056.5 | 990.6 | 945.9 | 901.3 | 873.3 | 845.4 | 832.4 | 819.5 |
| 20° | 1221.7 | 1124.5 | 1027.3 | 965.1 | 902.9 | 859.1 | 815.3 | 800.3 | 785.3 | 773.2 | 761.1 |
| 22.5° | 1129.1 | 1035.6 | 942.2 | 882.5 | 822.8 | 791.1 | 759.4 | 747.3 | 735.2 | 726.0 | 716.8 |
| 25° | 1051.5 | 958.4 | 865.4 | 813.2 | 761.1 | 736.5 | 711.8 | 703.9 | 696.0 | 686.8 | 677.6 |
| 27.5° | 973.0 | 884.6 | 796.1 | 754.4 | 712.7 | 692.6 | 672.6 | 662.6 | 652.6 | 645.1 | 637.6 |
| 30° | 903.8 | 822.0 | 740.2 | 705.6 | 670.9 | 653.4 | 635.9 | 625.0 | 614.2 | 607.1 | 600.0 |
| 32.5° | 837.0 | 764.4 | 691.8 | 662.2 | 632.6 | 615.5 | 598.3 | 587.9 | 577.5 | 569.1 | 560.8 |
| 35° | 775.3 | 712.3 | 649.2 | 622.1 | 595.0 | 577.9 | 560.8 | 550.4 | 539.9 | 531.6 | 523.2 |
| 37.5° | 721.0 | 663.9 | 606.7 | 581.2 | 555.8 | 540.8 | 525.7 | 514.9 | 504.0 | 495.3 | 486.5 |
| 40° | 670.1 | 619.6 | 569.1 | 544.5 | 519.9 | 503.6 | 487.4 | 477.8 | 468.2 | 460.2 | 452.3 |
| 42.5° | 625.0 | 578.7 | 532.4 | 508.2 | 484.0 | 468.6 | 453.1 | 441.9 | 430.6 | 426.0 | 421.4 |
| 45° | 577.5 | 536.6 | 495.7 | 472.3 | 449.0 | 432.7 | 416.4 | 406.8 | 397.2 | 393.1 | 388.9 |
| 47.5° | 535.8 | 497.8 | 459.8 | 436.9 | 413.9 | 399.3 | 384.7 | 377.2 | 369.7 | 363.8 | 358.0 |
| 50° | 494.9 | 458.1 | 421.4 | 399.3 | 377.2 | 364.7 | 352.2 | 343.0 | 333.8 | 329.6 | 325.5 |
| 52.5° | 455.6 | 422.3 | 388.9 | 366.3 | 343.8 | 331.7 | 319.6 | 311.7 | 303.8 | 295.0 | 286.2 |
| 55° | 411.4 | 382.2 | 353.0 | 333.0 | 312.9 | 300.4 | 287.9 | 278.7 | 269.5 | 260.4 | 251.2 |
| 57.5° | 374.7 | 345.9 | 317.1 | 299.2 | 281.2 | 269.1 | 257.0 | 247.0 | 237.0 | 229.5 | 222.0 |
| 60° | 334.6 | 309.6 | 284.6 | 267.0 | 249.5 | 237.8 | 226.2 | 216.6 | 207.0 | 203.2 | 199.4 |
| 62.5° | 297.1 | 273.7 | 250.4 | 234.9 | 219.5 | 208.2 | 196.9 | 190.7 | 184.4 | 181.9 | 179.4 |
| 65° | 258.7 | 238.7 | 218.6 | 204.5 | 190.3 | 180.7 | 171.1 | 168.2 | 165.2 | 163.1 | 161.1 |
| 67.5° | 222.8 | 205.7 | 188.6 | 176.1 | 163.6 | 156.9 | 150.2 | 146.9 | 143.5 | 141.0 | 138.5 |
| 70° | 190.3 | 175.2 | 160.2 | 149.4 | 138.5 | 132.3 | 126.0 | 123.1 | 120.2 | 115.6 | 111.0 |
| 72.5° | 155.2 | 143.5 | 131.9 | 123.5 | 115.2 | 109.7 | 104.3 | 98.5 | 92.6 | 88.5 | 84.3 |
| 75° | 128.5 | 116.8 | 105.1 | 97.2 | 89.3 | 83.0 | 76.8 | 74.7 | 72.6 | 71.4 | 70.1 |
| 77.5° | 98.5 | 88.5 | 78.4 | 72.2 | 65.9 | 63.0 | 60.1 | 58.8 | 57.6 | 57.2 | 56.7 |
| 80° | 70.9 | 62.6 | 54.2 | 50.9 | 47.6 | 46.7 | 45.9 | 45.1 | 44.2 | 43.8 | 43.4 |
| 82.5° | 44.2 | 40.1 | 35.9 | 35.0 | 34.2 | 33.8 | 33.4 | 33.0 | 32.5 | 32.1 | 31.7 |
| 85° | 25.9 | 24.2 | 22.5 | 22.1 | 21.7 | 21.3 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 |
| 87.5° | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.4 | 10.0 |
| 90° | 4.6 | 5.8 | 7.1 | 8.5 | 9.8 | 11.2 | 11.6 | 12.0 | 12.4 | 12.8 | 13.1 |
| 92.5° | 8.2 | 8.4 | 9.3 | 10.2 | 11.2 | 12.1 | 12.8 | 13.5 | 14.3 | 15.0 | 15.4 |
| 95° | 11.4 | 9.9 | 11.0 | 12.1 | 13.3 | 14.4 | 15.1 | 15.9 | 16.6 | 17.3 | 17.7 |
| 97.5° | 40.0 | 36.0 | 30.7 | 25.4 | 20.2 | 14.9 | 15.7 | 16.5 | 17.4 | 18.2 | 18.7 |
| 100° | 86.9 | 79.8 | 63.7 | 47.6 | 31.5 | 15.3 | 16.2 | 17.0 | 17.8 | 18.7 | 19.1 |
| 102.5° | 114.7 | 106.3 | 88.4 | 70.4 | 52.4 | 34.4 | 31.0 | 27.6 | 24.2 | 20.8 | 19.2 |
| 105° | 143.1 | 139.0 | 129.7 | 120.4 | 111.1 | 101.8 | 83.5 | 65.3 | 47.0 | 28.7 | 19.6 |
| 107.5° | 173.4 | 174.7 | 176.2 | 177.8 | 179.3 | 180.9 | 165.0 | 149.1 | 133.1 | 117.2 | 102.5 |
| 110° | 204.2 | 205.2 | 206.3 | 207.4 | 208.6 | 209.7 | 206.3 | 202.9 | 199.5 | 196.1 | 187.0 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 233.5 | 234.5 | 235.6 | 236.7 | 237.9 | 239.0 | 239.9 | 240.9 | 241.8 | 242.7 | 243.1 |
| 115° | 262.4 | 263.2 | 264.1 | 265.1 | 266.0 | 266.9 | 267.9 | 269.0 | 270.0 | 271.0 | 271.8 |
| 117.5° | 291.7 | 292.3 | 292.8 | 293.3 | 293.8 | 294.4 | 295.2 | 296.0 | 296.8 | 297.7 | 298.1 |
| 120° | 319.0 | 319.6 | 319.9 | 320.2 | 320.5 | 320.9 | 321.7 | 322.5 | 323.3 | 324.2 | 324.6 |
| 122.5° | 345.1 | 345.7 | 346.1 | 346.5 | 346.9 | 347.4 | 347.9 | 348.4 | 348.9 | 349.4 | 349.7 |
| 125° | 369.7 | 370.4 | 370.8 | 371.2 | 371.6 | 372.0 | 372.2 | 372.4 | 372.6 | 372.8 | 373.0 |
| 127.5° | 393.9 | 394.6 | 395.1 | 395.6 | 396.1 | 396.7 | 397.0 | 397.3 | 397.6 | 397.9 | 397.9 |
| 130° | 416.2 | 416.9 | 417.3 | 417.7 | 418.1 | 418.5 | 418.9 | 419.3 | 419.7 | 420.2 | 420.3 |
| 132.5° | 437.6 | 438.2 | 438.5 | 438.8 | 439.1 | 439.4 | 439.8 | 440.3 | 440.7 | 441.1 | 441.1 |
| 135° | 458.7 | 459.2 | 459.6 | 460.0 | 460.4 | 460.8 | 461.1 | 461.4 | 461.8 | 462.1 | 462.1 |
| 137.5° | 478.1 | 478.6 | 478.8 | 479.0 | 479.2 | 479.4 | 479.9 | 480.5 | 481.0 | 481.5 | 481.6 |
| 140° | 495.9 | 496.3 | 496.6 | 496.9 | 497.3 | 497.6 | 498.0 | 498.4 | 498.8 | 499.2 | 499.3 |
| 142.5° | 513.1 | 513.5 | 513.8 | 514.1 | 514.5 | 514.8 | 515.1 | 515.4 | 515.7 | 516.0 | 516.0 |
| 145° | 529.3 | 529.7 | 530.0 | 530.2 | 530.4 | 530.6 | 530.8 | 531.0 | 531.2 | 531.4 | 531.5 |
| 147.5° | 543.8 | 544.2 | 544.4 | 544.6 | 544.8 | 545.0 | 545.2 | 545.4 | 545.6 | 545.8 | 545.7 |
| 150° | 556.9 | 557.2 | 557.4 | 557.6 | 557.8 | 558.0 | 558.2 | 558.4 | 558.6 | 558.8 | 558.8 |
| 152.5° | 568.7 | 568.8 | 568.9 | 569.0 | 569.1 | 569.2 | 569.6 | 570.0 | 570.4 | 570.8 | 570.8 |
| 155° | 579.0 | 579.0 | 579.1 | 579.2 | 579.3 | 579.4 | 579.9 | 580.4 | 581.0 | 581.5 | 581.4 |
| 157.5° | 589.2 | 589.1 | 589.0 | 588.9 | 588.8 | 588.7 | 589.3 | 589.9 | 590.6 | 591.2 | 591.1 |
| 160° | 597.1 | 597.0 | 596.9 | 596.8 | 596.7 | 596.6 | 597.2 | 597.8 | 598.5 | 599.1 | 599.0 |
| 162.5° | 604.2 | 604.0 | 603.9 | 603.8 | 603.7 | 603.6 | 604.3 | 605.0 | 605.8 | 606.5 | 606.5 |
| 165° | 610.2 | 610.0 | 609.9 | 609.8 | 609.7 | 609.6 | 610.5 | 611.3 | 612.1 | 612.9 | 613.0 |
| 167.5° | 614.9 | 614.7 | 614.7 | 614.7 | 614.7 | 614.7 | 615.6 | 616.4 | 617.2 | 618.0 | 618.0 |
| 170° | 619.1 | 618.9 | 618.9 | 618.9 | 618.9 | 618.9 | 619.8 | 620.6 | 621.4 | 622.2 | 622.2 |
| 172.5° | 621.5 | 621.3 | 621.4 | 621.5 | 621.6 | 621.7 | 622.5 | 623.4 | 624.2 | 625.0 | 625.0 |
| 175° | 623.8 | 623.6 | 623.7 | 623.8 | 623.9 | 624.0 | 624.8 | 625.5 | 626.2 | 626.9 | 626.9 |
| 177.5° | 624.8 | 624.6 | 624.7 | 624.8 | 624.9 | 625.0 | 625.8 | 626.6 | 627.5 | 628.3 | 628.2 |
| 180° | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2035.4 | 2035.4 | 2035.4 | 2035.4 |
| 2.5° | 1808.4 | 1804.2 | 1802.5 | 1800.9 |
| 5° | 1550.1 | 1537.2 | 1534.2 | 1531.3 |
| 7.5° | 1330.6 | 1325.2 | 1307.3 | 1289.3 |
| 10° | 1152.5 | 1135.8 | 1128.3 | 1120.7 |
| 12.5° | 1003.5 | 988.1 | 985.6 | 983.1 |
| 15° | 887.9 | 877.1 | 873.3 | 869.6 |
| 17.5° | 812.0 | 804.5 | 799.9 | 795.3 |
| 20° | 755.6 | 750.2 | 746.9 | 743.5 |
| 22.5° | 712.7 | 708.5 | 706.0 | 703.5 |
| 25° | 671.4 | 665.1 | 663.0 | 660.9 |
| 27.5° | 632.1 | 626.7 | 624.6 | 622.5 |
| 30° | 595.4 | 590.8 | 587.9 | 585.0 |
| 32.5° | 555.4 | 549.9 | 548.3 | 546.6 |
| 35° | 519.9 | 516.6 | 514.9 | 513.2 |
| 37.5° | 482.3 | 478.2 | 475.7 | 473.2 |
| 40° | 450.2 | 448.1 | 446.9 | 445.6 |
| 42.5° | 417.7 | 413.9 | 413.5 | 413.1 |
| 45° | 385.1 | 381.4 | 380.5 | 379.7 |
| 47.5° | 354.7 | 351.3 | 350.9 | 350.5 |
| 50° | 320.9 | 316.3 | 312.9 | 309.6 |
| 52.5° | 282.1 | 277.9 | 275.0 | 272.1 |
| 55° | 246.6 | 242.0 | 239.5 | 237.0 |
| 57.5° | 219.9 | 217.8 | 216.6 | 215.3 |
| 60° | 198.2 | 196.9 | 196.1 | 195.3 |
| 62.5° | 178.2 | 176.9 | 176.9 | 176.9 |
| 65° | 159.8 | 158.6 | 157.3 | 156.1 |
| 67.5° | 136.0 | 133.5 | 133.1 | 132.7 |
| 70° | 107.2 | 103.5 | 103.1 | 102.6 |
| 72.5° | 83.9 | 83.5 | 82.6 | 81.8 |
| 75° | 69.3 | 68.4 | 68.4 | 68.4 |
| 77.5° | 55.9 | 55.1 | 55.1 | 55.1 |
| 80° | 43.0 | 42.6 | 43.0 | 43.4 |
| 82.5° | 31.7 | 31.7 | 31.3 | 30.9 |
| 85° | 20.4 | 20.0 | 20.0 | 20.0 |
| 87.5° | 10.0 | 10.0 | 10.0 | 10.0 |
| 90° | 13.3 | 13.5 | 13.7 | 14.0 |
| 92.5° | 15.5 | 15.6 | 15.7 | 15.8 |
| 95° | 17.7 | 17.7 | 17.7 | 17.7 |
| 97.5° | 18.8 | 18.9 | 19.0 | 19.1 |
| 100° | 19.2 | 19.3 | 19.4 | 19.5 |
| 102.5° | 19.4 | 19.6 | 19.8 | 20.0 |
| 105° | 19.8 | 20.0 | 20.3 | 20.5 |
| 107.5° | 89.0 | 75.4 | 61.9 | 48.4 |
| 110° | 172.2 | 157.4 | 142.7 | 127.9 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 242.9 | 242.7 | 242.5 | 242.3 |
| 115° | 272.2 | 272.6 | 273.0 | 273.4 |
| 117.5° | 298.2 | 298.3 | 298.4 | 298.5 |
| 120° | 324.6 | 324.6 | 324.6 | 324.6 |
| 122.5° | 349.8 | 349.9 | 350.0 | 350.2 |
| 125° | 373.2 | 373.5 | 373.7 | 373.9 |
| 127.5° | 397.7 | 397.5 | 397.3 | 397.1 |
| 130° | 420.1 | 419.9 | 419.6 | 419.4 |
| 132.5° | 440.8 | 440.5 | 440.2 | 439.9 |
| 135° | 461.8 | 461.4 | 461.1 | 460.8 |
| 137.5° | 481.4 | 481.2 | 481.0 | 480.8 |
| 140° | 499.1 | 498.9 | 498.7 | 498.5 |
| 142.5° | 515.7 | 515.4 | 515.1 | 514.8 |
| 145° | 531.5 | 531.5 | 531.5 | 531.5 |
| 147.5° | 545.1 | 544.6 | 544.1 | 543.6 |
| 150° | 558.5 | 558.2 | 557.9 | 557.5 |
| 152.5° | 570.3 | 569.7 | 569.2 | 568.7 |
| 155° | 580.8 | 580.2 | 579.6 | 578.9 |
| 157.5° | 590.3 | 589.4 | 588.6 | 587.8 |
| 160° | 598.3 | 597.6 | 596.9 | 596.1 |
| 162.5° | 605.9 | 605.3 | 604.7 | 604.0 |
| 165° | 612.3 | 611.5 | 610.8 | 610.1 |
| 167.5° | 617.2 | 616.4 | 615.6 | 614.7 |
| 170° | 621.4 | 620.6 | 619.8 | 618.9 |
| 172.5° | 624.0 | 623.1 | 622.2 | 621.3 |
| 175° | 626.1 | 625.2 | 624.4 | 623.6 |
| 177.5° | 627.1 | 626.1 | 625.1 | 624.0 |
| 180° | 625.9 | 625.9 | 625.9 | 625.9 |



TEST NUMBER: P832401

CATALOG NUMBER: S123RDIP-S775D585U930-4F0-1E-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 | 12.24 | 13.12 | 13.14 | 14.02 | 15.17 | 16.91 | 17.79 | 17.80 | 18.69 | 19.84 |
| | 3H | 13.47 | 14.25 | 14.37 | 15.17 | 16.34 | 18.41 | 19.19 | 19.32 | 20.11 | 21.28 |
| | 4H | 13.85 | 14.59 | 14.77 | 15.51 | 16.69 | 18.90 | 19.64 | 19.82 | 20.56 | 21.74 |
| | 6H | 14.14 | 14.82 | 15.07 | 15.74 | 16.94 | 19.22 | 19.90 | 20.15 | 20.82 | 22.02 |
| | 8H | 14.22 | 14.87 | 15.16 | 15.81 | 17.01 | 19.30 | 19.94 | 20.24 | 20.89 | 22.08 |
| | 12H | 14.28 | 14.89 | 15.22 | 15.83 | 17.05 | 19.33 | 19.95 | 20.27 | 20.88 | 22.10 |
| 4H | 2H | 12.97 | 13.71 | 13.90 | 14.63 | 15.81 | 16.91 | 17.65 | 17.83 | 18.57 | 19.75 |
| | 3H | 14.35 | 14.96 | 15.28 | 15.91 | 17.11 | 18.57 | 19.18 | 19.51 | 20.13 | 21.33 |
| | 4H | 14.80 | 15.36 | 15.75 | 16.31 | 17.53 | 19.18 | 19.74 | 20.12 | 20.68 | 21.91 |
| | 6H | 15.17 | 15.65 | 16.13 | 16.62 | 17.85 | 19.62 | 20.10 | 20.58 | 21.07 | 22.29 |
| | 8H | 15.30 | 15.75 | 16.26 | 16.71 | 17.95 | 19.75 | 20.20 | 20.71 | 21.16 | 22.40 |
| | 12H | 15.38 | 15.78 | 16.36 | 16.76 | 18.00 | 19.82 | 20.22 | 20.79 | 21.20 | 22.44 |
| 8H | 4H | 15.12 | 15.57 | 16.08 | 16.53 | 17.77 | 19.15 | 19.60 | 20.11 | 20.56 | 21.80 |
| | 6H | 15.59 | 15.96 | 16.57 | 16.96 | 18.19 | 19.65 | 20.02 | 20.63 | 21.02 | 22.26 |
| | 8H | 15.78 | 16.11 | 16.77 | 17.10 | 18.35 | 19.83 | 20.16 | 20.83 | 21.15 | 22.40 |
| | 12H | 15.92 | 16.21 | 16.92 | 17.19 | 18.49 | 19.95 | 20.24 | 20.95 | 21.22 | 22.52 |
| 12H | 4H | 15.13 | 15.54 | 16.11 | 16.52 | 17.76 | 19.10 | 19.51 | 20.08 | 20.48 | 21.73 |
| | 6H | 15.64 | 15.97 | 16.64 | 16.96 | 18.22 | 19.62 | 19.95 | 20.62 | 20.94 | 22.19 |
| | 8H | 15.87 | 16.15 | 16.86 | 17.14 | 18.44 | 19.82 | 20.10 | 20.81 | 21.09 | 22.39 |