

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: P832045

Luminaire Tested: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832045
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-S340D1025U850-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

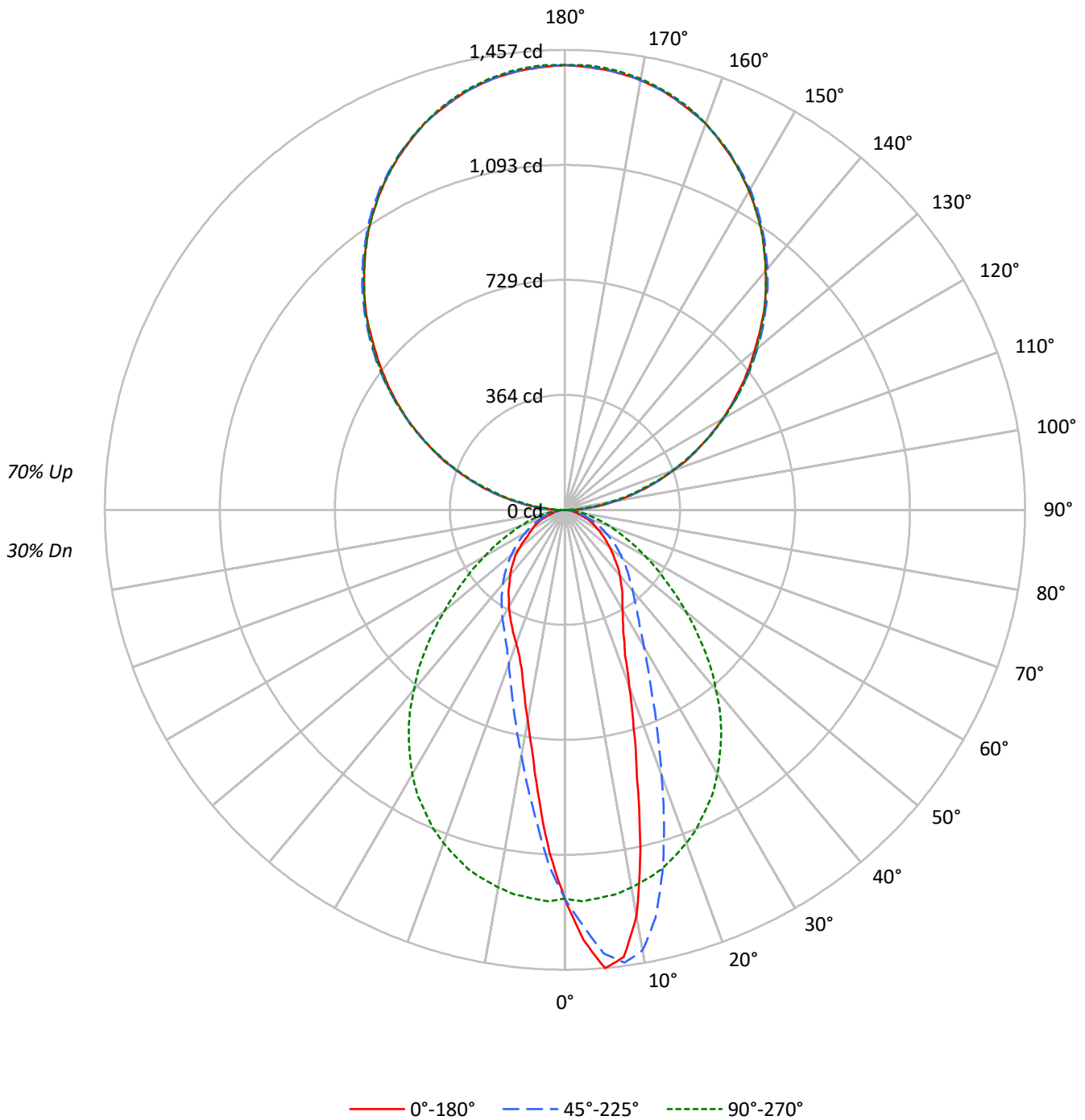
Lumens per Lamp: N/A
Luminaire Lumens: 5541.1 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 38.3
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: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-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 | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 54 | 54 | 54 | 37 | 37 | 37 | 30 | | | | |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 48 | 47 | 46 | 34 | 33 | 32 | 26 | | | | |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 30 | 29 | 28 | 22 | | | | |
| 3 | 78 | 70 | 63 | 58 | 70 | 63 | 57 | 53 | 50 | 46 | 43 | 38 | 36 | 33 | 27 | 26 | 24 | 20 | | | | |
| 4 | 72 | 62 | 55 | 49 | 64 | 56 | 50 | 45 | 45 | 40 | 37 | 34 | 31 | 29 | 25 | 23 | 22 | 17 | | | | |
| 5 | 66 | 55 | 48 | 42 | 59 | 50 | 44 | 39 | 40 | 36 | 32 | 31 | 28 | 26 | 23 | 21 | 19 | 15 | | | | |
| 6 | 61 | 50 | 42 | 37 | 55 | 45 | 39 | 34 | 36 | 32 | 28 | 28 | 25 | 23 | 21 | 19 | 17 | 14 | | | | |
| 7 | 57 | 45 | 38 | 32 | 51 | 41 | 35 | 30 | 33 | 28 | 25 | 26 | 23 | 20 | 19 | 17 | 15 | 13 | | | | |
| 8 | 53 | 41 | 34 | 29 | 47 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 21 | 18 | 18 | 16 | 14 | 12 | | | | |
| 9 | 49 | 37 | 30 | 26 | 44 | 34 | 28 | 24 | 28 | 23 | 20 | 22 | 19 | 17 | 16 | 14 | 13 | 11 | | | | |
| 10 | 46 | 34 | 28 | 23 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 20 | 17 | 15 | 15 | 13 | 12 | 10 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 13261 | 13261 | 13261 | 13261 | 13261 |
| 5° | 15746 | 15244 | 13344 | 10788 | 10015 |
| 10° | 14267 | 15483 | 13278 | 8643 | 7415 |
| 15° | 9823 | 13277 | 13138 | 7064 | 5865 |
| 20° | 6834 | 10221 | 12874 | 5956 | 5156 |
| 25° | 5208 | 7790 | 12491 | 5295 | 4752 |
| 30° | 4533 | 6228 | 12010 | 4916 | 4401 |
| 35° | 4162 | 5253 | 11331 | 4596 | 4083 |
| 40° | 3797 | 4692 | 10442 | 4283 | 3790 |
| 45° | 3430 | 4291 | 9481 | 3987 | 3498 |
| 50° | 3113 | 3959 | 8349 | 3696 | 3138 |
| 55° | 2815 | 3635 | 7261 | 3412 | 2693 |
| 60° | 2523 | 3307 | 6308 | 3100 | 2545 |
| 65° | 2328 | 2934 | 5430 | 2786 | 2407 |
| 70° | 1891 | 2537 | 4736 | 2521 | 1954 |
| 75° | 1659 | 2017 | 4013 | 2092 | 1722 |
| 80° | 1500 | 1705 | 3285 | 1754 | 1630 |
| 85° | 1371 | 1494 | 2495 | 1593 | 1494 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 10004 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.3 | 2.0 |
| 10°-20° | 259.9 | 4.7 |
| 20°-30° | 298.1 | 5.4 |
| 30°-40° | 293.9 | 5.3 |
| 40°-50° | 259.2 | 4.7 |
| 50°-60° | 199.4 | 3.6 |
| 60°-70° | 131.1 | 2.4 |
| 70°-80° | 63.7 | 1.1 |
| 80°-90° | 19.0 | 0.3 |
| 90°-100° | 90.7 | 1.6 |
| 100°-110° | 274.6 | 5.0 |
| 110°-120° | 467.4 | 8.4 |
| 120°-130° | 614.9 | 11.1 |
| 130°-140° | 691.2 | 12.5 |
| 140°-150° | 679.5 | 12.3 |
| 150°-160° | 572.1 | 10.3 |
| 160°-170° | 380.9 | 6.9 |
| 170°-180° | 133.4 | 2.4 |
| 0°-30° | 670.3 | 12.1 |
| 0°-40° | 964.2 | 17.4 |
| 0°-60° | 1422.7 | 25.7 |
| 0°-90° | 1636.5 | 29.5 |
| 90°-120° | 832.7 | 15.0 |
| 90°-150° | 2818.3 | 50.9 |
| 90°-180° | 3905.0 | 70.5 |
| 0°-180° | 5541.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1232 | 1232 | 1232 | 1232 | 1232 | |
| 5° | 1457 | 1411 | 1235 | 998 | 927 | 133 |
| 15° | 882 | 1191 | 1179 | 634 | 526 | 249 |
| 25° | 438 | 656 | 1052 | 446 | 400 | 207 |
| 35° | 317 | 400 | 862 | 350 | 311 | 197 |
| 45° | 225 | 282 | 623 | 262 | 230 | 175 |
| 55° | 150 | 194 | 387 | 182 | 144 | 135 |
| 65° | 91 | 115 | 213 | 109 | 94 | 90 |
| 75° | 40 | 48 | 96 | 50 | 41 | 43 |
| 85° | 11 | 12 | 20 | 13 | 12 | 12 |
| 90° | 33 | 27 | 1 | 27 | 33 | 16 |
| 95° | 86 | 82 | 65 | 82 | 86 | 87 |
| 105° | 264 | 261 | 249 | 261 | 264 | 279 |
| 115° | 472 | 472 | 470 | 472 | 472 | 467 |
| 125° | 681 | 690 | 689 | 690 | 681 | 609 |
| 135° | 892 | 899 | 893 | 899 | 892 | 686 |
| 145° | 1084 | 1089 | 1084 | 1089 | 1084 | 677 |
| 155° | 1239 | 1242 | 1241 | 1242 | 1239 | 571 |
| 165° | 1347 | 1348 | 1352 | 1348 | 1347 | 380 |
| 175° | 1400 | 1402 | 1406 | 1402 | 1400 | 133 |
| 180° | 1409 | 1409 | 1409 | 1409 | 1409 | |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 |
| 2.5° | 1365.4 | 1361.1 | 1356.8 | 1355.5 | 1354.3 | 1350.2 | 1346.2 | 1337.1 | 1328.0 | 1318.6 | 1309.3 |
| 5° | 1457.3 | 1457.8 | 1458.3 | 1457.1 | 1455.8 | 1450.5 | 1445.2 | 1434.1 | 1423.0 | 1410.8 | 1398.7 |
| 7.5° | 1429.0 | 1437.1 | 1445.2 | 1446.7 | 1448.2 | 1452.3 | 1456.3 | 1453.8 | 1451.2 | 1446.7 | 1442.2 |
| 10° | 1305.3 | 1304.8 | 1304.3 | 1313.3 | 1322.4 | 1349.5 | 1376.5 | 1390.4 | 1404.3 | 1416.6 | 1429.0 |
| 12.5° | 1103.2 | 1104.0 | 1104.7 | 1134.5 | 1164.3 | 1189.8 | 1215.3 | 1250.7 | 1286.1 | 1324.2 | 1362.3 |
| 15° | 881.5 | 893.8 | 906.2 | 932.7 | 959.2 | 997.6 | 1036.0 | 1083.5 | 1131.0 | 1191.4 | 1251.7 |
| 17.5° | 723.9 | 729.2 | 734.5 | 760.0 | 785.5 | 821.9 | 858.2 | 912.0 | 965.8 | 1043.6 | 1121.4 |
| 20° | 596.6 | 601.4 | 606.2 | 624.6 | 643.0 | 677.9 | 712.7 | 764.0 | 815.3 | 892.3 | 969.4 |
| 22.5° | 498.1 | 507.4 | 516.8 | 529.1 | 541.5 | 566.8 | 592.0 | 644.3 | 696.6 | 766.8 | 837.0 |
| 25° | 438.5 | 442.7 | 447.0 | 457.7 | 468.3 | 492.5 | 516.8 | 551.4 | 586.0 | 655.9 | 725.9 |
| 27.5° | 398.0 | 399.3 | 400.6 | 408.4 | 416.2 | 431.9 | 447.5 | 479.6 | 511.7 | 569.3 | 626.9 |
| 30° | 364.7 | 367.0 | 369.3 | 375.3 | 381.4 | 392.7 | 404.1 | 426.8 | 449.6 | 501.1 | 552.6 |
| 32.5° | 338.9 | 340.2 | 341.5 | 346.5 | 351.6 | 359.9 | 368.2 | 386.2 | 404.1 | 443.5 | 482.9 |
| 35° | 316.7 | 317.0 | 317.2 | 321.0 | 324.8 | 332.9 | 341.0 | 355.9 | 370.8 | 399.8 | 428.9 |
| 37.5° | 291.5 | 293.2 | 295.0 | 297.8 | 300.6 | 307.6 | 314.7 | 326.8 | 338.9 | 362.9 | 386.9 |
| 40° | 270.2 | 271.8 | 273.3 | 276.6 | 279.8 | 285.4 | 291.0 | 302.1 | 313.2 | 333.9 | 354.6 |
| 42.5° | 249.0 | 250.0 | 251.1 | 254.3 | 257.6 | 264.4 | 271.3 | 280.1 | 288.9 | 306.1 | 323.3 |
| 45° | 225.3 | 227.8 | 230.3 | 233.9 | 237.4 | 243.2 | 249.0 | 258.1 | 267.2 | 281.9 | 296.5 |
| 47.5° | 205.6 | 206.9 | 208.1 | 211.1 | 214.2 | 221.2 | 228.3 | 236.4 | 244.5 | 258.1 | 271.8 |
| 50° | 185.9 | 186.4 | 186.9 | 189.7 | 192.5 | 198.8 | 205.1 | 214.4 | 223.8 | 236.4 | 249.0 |
| 52.5° | 167.2 | 168.5 | 169.7 | 172.5 | 175.3 | 179.6 | 183.9 | 193.5 | 203.1 | 215.4 | 227.8 |
| 55° | 150.0 | 150.8 | 151.5 | 153.6 | 155.6 | 160.6 | 165.7 | 174.0 | 182.4 | 193.7 | 205.1 |
| 57.5° | 133.9 | 134.9 | 135.9 | 137.4 | 138.9 | 143.5 | 148.0 | 155.3 | 162.7 | 174.0 | 185.4 |
| 60° | 117.2 | 118.5 | 119.7 | 121.5 | 123.3 | 126.8 | 130.3 | 136.9 | 143.5 | 153.6 | 163.7 |
| 62.5° | 105.1 | 105.3 | 105.6 | 107.1 | 108.6 | 111.1 | 113.7 | 119.0 | 124.3 | 134.4 | 144.5 |
| 65° | 91.4 | 92.2 | 92.9 | 93.7 | 94.5 | 96.5 | 98.5 | 103.0 | 107.6 | 115.2 | 122.7 |
| 67.5° | 77.3 | 78.0 | 78.8 | 80.1 | 81.3 | 83.1 | 84.9 | 87.9 | 90.9 | 98.0 | 105.1 |
| 70° | 60.1 | 60.1 | 60.1 | 62.1 | 64.2 | 67.2 | 70.2 | 72.5 | 74.8 | 80.6 | 86.4 |
| 72.5° | 49.0 | 49.3 | 49.5 | 49.8 | 50.0 | 51.8 | 53.5 | 57.3 | 61.1 | 64.7 | 68.2 |
| 75° | 39.9 | 40.2 | 40.4 | 40.7 | 40.9 | 41.4 | 41.9 | 43.2 | 44.5 | 48.5 | 52.5 |
| 77.5° | 31.8 | 32.1 | 32.3 | 32.6 | 32.8 | 33.3 | 33.8 | 34.3 | 34.9 | 36.4 | 37.9 |
| 80° | 24.2 | 24.5 | 24.8 | 25.0 | 25.3 | 25.5 | 25.8 | 26.3 | 26.8 | 27.5 | 28.3 |
| 82.5° | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 | 18.2 | 18.7 | 18.7 | 18.7 | 19.2 | 19.7 |
| 85° | 11.1 | 11.1 | 11.1 | 11.4 | 11.6 | 11.6 | 11.6 | 11.9 | 12.1 | 12.1 | 12.1 |
| 87.5° | 5.1 | 4.8 | 4.5 | 4.8 | 5.1 | 5.1 | 5.1 | 5.3 | 5.6 | 5.6 | 5.6 |
| 90° | 33.2 | 32.7 | 32.2 | 31.7 | 31.2 | 30.5 | 29.5 | 28.5 | 27.6 | 26.6 | 23.4 |
| 92.5° | 47.6 | 48.1 | 48.6 | 49.1 | 49.6 | 49.4 | 48.7 | 48.0 | 47.2 | 46.5 | 45.0 |
| 95° | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 85.9 | 84.9 | 83.9 | 82.9 | 81.9 | 80.0 |
| 97.5° | 124.0 | 124.2 | 124.5 | 124.7 | 125.0 | 124.5 | 123.2 | 122.0 | 120.8 | 119.6 | 118.1 |
| 100° | 168.3 | 167.8 | 167.3 | 166.8 | 166.3 | 165.7 | 164.9 | 164.2 | 163.5 | 162.7 | 161.5 |
| 102.5° | 213.7 | 213.9 | 214.1 | 214.4 | 214.6 | 214.4 | 213.7 | 212.9 | 212.2 | 211.4 | 209.7 |
| 105° | 263.5 | 263.0 | 262.5 | 262.0 | 261.5 | 261.3 | 261.3 | 261.3 | 261.3 | 261.3 | 259.0 |
| 107.5° | 314.4 | 314.6 | 314.9 | 315.1 | 315.4 | 315.1 | 314.4 | 313.7 | 312.9 | 312.2 | 311.2 |
| 110° | 366.4 | 366.9 | 367.4 | 367.9 | 368.4 | 368.1 | 367.2 | 366.2 | 365.2 | 364.2 | 363.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 421.8 | 421.8 | 421.8 | 421.8 | 421.8 | 421.2 | 419.9 | 418.7 | 417.5 | 416.2 | 416.2 |
| 115° | 471.6 | 471.8 | 472.1 | 472.3 | 472.6 | 472.6 | 472.3 | 472.1 | 471.8 | 471.6 | 472.1 |
| 117.5° | 522.5 | 523.2 | 524.0 | 524.7 | 525.5 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 526.3 |
| 120° | 576.8 | 577.2 | 577.7 | 578.2 | 578.7 | 579.1 | 579.3 | 579.6 | 579.8 | 580.1 | 581.3 |
| 122.5° | 628.8 | 629.5 | 630.3 | 631.0 | 631.7 | 632.5 | 633.2 | 633.9 | 634.7 | 635.4 | 635.9 |
| 125° | 680.8 | 681.8 | 682.8 | 683.8 | 684.7 | 685.7 | 686.7 | 687.7 | 688.7 | 689.7 | 690.2 |
| 127.5° | 732.8 | 733.8 | 734.8 | 735.8 | 736.8 | 738.0 | 739.5 | 741.0 | 742.4 | 743.9 | 744.4 |
| 130° | 783.8 | 785.5 | 787.2 | 788.9 | 790.7 | 792.0 | 793.0 | 794.0 | 795.0 | 795.9 | 796.7 |
| 132.5° | 836.9 | 838.1 | 839.4 | 840.6 | 841.8 | 843.1 | 844.3 | 845.5 | 846.7 | 848.0 | 848.5 |
| 135° | 892.3 | 892.7 | 893.2 | 893.7 | 894.2 | 895.0 | 895.9 | 896.9 | 897.9 | 898.9 | 899.1 |
| 137.5° | 941.0 | 941.7 | 942.4 | 943.2 | 943.9 | 944.9 | 946.1 | 947.4 | 948.6 | 949.8 | 949.1 |
| 140° | 988.6 | 990.3 | 992.0 | 993.7 | 995.5 | 996.4 | 996.7 | 996.9 | 997.2 | 997.4 | 997.2 |
| 142.5° | 1037.3 | 1038.5 | 1039.7 | 1041.0 | 1042.2 | 1042.9 | 1043.2 | 1043.4 | 1043.7 | 1043.9 | 1043.4 |
| 145° | 1083.8 | 1084.7 | 1085.7 | 1086.7 | 1087.7 | 1088.3 | 1088.6 | 1088.8 | 1089.1 | 1089.3 | 1088.6 |
| 147.5° | 1125.8 | 1127.3 | 1128.8 | 1130.3 | 1131.7 | 1132.5 | 1132.5 | 1132.5 | 1132.5 | 1132.5 | 1131.7 |
| 150° | 1165.7 | 1167.2 | 1168.6 | 1170.1 | 1171.6 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1171.8 |
| 152.5° | 1204.4 | 1205.7 | 1206.9 | 1208.1 | 1209.4 | 1209.7 | 1209.2 | 1208.7 | 1208.2 | 1207.8 | 1207.5 |
| 155° | 1238.7 | 1240.5 | 1242.2 | 1243.9 | 1245.6 | 1246.0 | 1245.0 | 1244.0 | 1243.1 | 1242.1 | 1241.8 |
| 157.5° | 1270.9 | 1272.3 | 1273.8 | 1275.3 | 1276.8 | 1277.0 | 1276.0 | 1275.0 | 1274.0 | 1273.1 | 1272.8 |
| 160° | 1301.8 | 1302.8 | 1303.8 | 1304.8 | 1305.8 | 1305.7 | 1304.4 | 1303.2 | 1302.0 | 1300.7 | 1300.7 |
| 162.5° | 1325.1 | 1326.8 | 1328.5 | 1330.3 | 1332.0 | 1332.2 | 1331.0 | 1329.8 | 1328.5 | 1327.3 | 1327.1 |
| 165° | 1347.2 | 1349.0 | 1350.7 | 1352.4 | 1354.1 | 1354.2 | 1352.8 | 1351.3 | 1349.8 | 1348.3 | 1348.3 |
| 167.5° | 1367.2 | 1368.6 | 1370.1 | 1371.6 | 1373.1 | 1373.1 | 1371.6 | 1370.1 | 1368.6 | 1367.2 | 1366.9 |
| 170° | 1381.6 | 1383.3 | 1385.0 | 1386.7 | 1388.4 | 1388.4 | 1386.7 | 1385.0 | 1383.3 | 1381.6 | 1381.6 |
| 172.5° | 1392.6 | 1394.3 | 1396.1 | 1397.8 | 1399.5 | 1399.6 | 1398.2 | 1396.7 | 1395.2 | 1393.7 | 1393.7 |
| 175° | 1400.4 | 1402.1 | 1403.8 | 1405.5 | 1407.3 | 1407.4 | 1405.9 | 1404.4 | 1403.0 | 1401.5 | 1401.5 |
| 177.5° | 1404.8 | 1406.5 | 1408.2 | 1410.0 | 1411.7 | 1411.8 | 1410.3 | 1408.9 | 1407.4 | 1405.9 | 1405.9 |
| 180° | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 |
| 2.5° | 1308.0 | 1306.8 | 1294.7 | 1282.5 | 1270.7 | 1258.8 | 1250.0 | 1241.1 | 1226.2 | 1211.3 | 1202.0 |
| 5° | 1389.1 | 1379.5 | 1360.3 | 1341.1 | 1312.3 | 1283.5 | 1259.3 | 1235.0 | 1204.2 | 1173.4 | 1147.7 |
| 7.5° | 1434.3 | 1426.5 | 1403.3 | 1380.0 | 1341.9 | 1303.7 | 1265.9 | 1228.0 | 1182.5 | 1137.1 | 1098.2 |
| 10° | 1435.6 | 1442.2 | 1423.0 | 1403.8 | 1360.8 | 1317.9 | 1266.4 | 1214.8 | 1153.7 | 1092.6 | 1042.3 |
| 12.5° | 1390.6 | 1418.9 | 1414.9 | 1410.8 | 1367.1 | 1323.4 | 1260.8 | 1198.2 | 1123.2 | 1048.2 | 985.3 |
| 15° | 1306.5 | 1361.3 | 1377.5 | 1393.7 | 1357.5 | 1321.4 | 1250.2 | 1179.0 | 1090.8 | 1002.7 | 930.5 |
| 17.5° | 1198.2 | 1275.0 | 1317.6 | 1360.3 | 1334.1 | 1307.8 | 1229.7 | 1151.7 | 1052.4 | 953.2 | 874.6 |
| 20° | 1069.9 | 1170.4 | 1237.3 | 1304.3 | 1294.7 | 1285.1 | 1204.5 | 1123.9 | 1016.8 | 909.7 | 824.6 |
| 22.5° | 943.1 | 1049.2 | 1141.6 | 1234.0 | 1243.9 | 1253.7 | 1172.4 | 1091.1 | 973.9 | 856.7 | 770.1 |
| 25° | 833.7 | 941.6 | 1051.7 | 1161.8 | 1184.0 | 1206.3 | 1129.0 | 1051.7 | 930.2 | 808.7 | 722.6 |
| 27.5° | 729.4 | 832.0 | 953.2 | 1074.4 | 1114.8 | 1155.2 | 1084.5 | 1013.8 | 887.3 | 760.7 | 674.9 |
| 30° | 644.3 | 736.0 | 859.7 | 983.5 | 1039.8 | 1096.1 | 1031.2 | 966.3 | 840.8 | 715.3 | 631.2 |
| 32.5° | 565.0 | 647.1 | 771.3 | 895.6 | 961.0 | 1026.4 | 970.4 | 914.3 | 793.6 | 672.8 | 589.7 |
| 35° | 502.4 | 575.9 | 691.8 | 807.7 | 881.0 | 954.2 | 908.2 | 862.3 | 744.3 | 626.4 | 547.8 |
| 37.5° | 448.6 | 510.2 | 619.0 | 727.9 | 805.7 | 883.5 | 845.1 | 806.7 | 695.8 | 584.9 | 510.7 |
| 40° | 404.1 | 453.6 | 554.9 | 656.2 | 732.4 | 808.7 | 775.9 | 743.1 | 643.8 | 544.5 | 475.1 |
| 42.5° | 366.0 | 408.7 | 499.6 | 590.5 | 660.5 | 730.4 | 708.7 | 687.0 | 597.1 | 507.2 | 442.7 |
| 45° | 332.4 | 368.2 | 448.3 | 528.4 | 592.8 | 657.2 | 640.0 | 622.8 | 545.3 | 467.8 | 408.7 |
| 47.5° | 302.6 | 333.4 | 404.9 | 476.3 | 534.2 | 592.0 | 576.1 | 560.2 | 496.0 | 431.9 | 378.1 |
| 50° | 275.3 | 301.6 | 361.2 | 420.8 | 472.8 | 524.8 | 511.7 | 498.6 | 445.5 | 392.5 | 346.0 |
| 52.5° | 249.5 | 271.3 | 324.8 | 378.3 | 420.3 | 462.2 | 452.1 | 442.0 | 401.1 | 360.2 | 318.0 |
| 55° | 225.0 | 245.0 | 290.2 | 335.4 | 371.3 | 407.1 | 397.0 | 386.9 | 355.1 | 323.3 | 286.2 |
| 57.5° | 202.8 | 220.2 | 256.9 | 293.5 | 322.0 | 350.6 | 345.8 | 341.0 | 314.4 | 287.9 | 257.4 |
| 60° | 179.3 | 195.0 | 226.6 | 258.1 | 281.1 | 304.1 | 298.5 | 293.0 | 274.0 | 255.1 | 228.8 |
| 62.5° | 158.4 | 172.3 | 197.5 | 222.8 | 241.5 | 260.1 | 256.1 | 252.1 | 237.7 | 223.3 | 201.5 |
| 65° | 136.4 | 150.0 | 170.5 | 190.9 | 205.6 | 220.2 | 216.7 | 213.2 | 202.3 | 191.4 | 174.0 |
| 67.5° | 116.4 | 127.8 | 145.5 | 163.2 | 173.0 | 182.9 | 180.8 | 178.8 | 170.5 | 162.1 | 148.5 |
| 70° | 96.2 | 106.1 | 120.7 | 135.4 | 142.2 | 149.0 | 149.8 | 150.5 | 143.0 | 135.4 | 125.3 |
| 72.5° | 76.0 | 83.9 | 97.5 | 111.1 | 116.4 | 121.7 | 121.5 | 121.2 | 116.7 | 112.1 | 103.0 |
| 75° | 58.3 | 64.2 | 74.8 | 85.4 | 89.9 | 94.5 | 95.5 | 96.5 | 92.2 | 87.9 | 82.8 |
| 77.5° | 41.9 | 46.0 | 54.0 | 62.1 | 67.2 | 72.2 | 72.7 | 73.2 | 71.2 | 69.2 | 64.4 |
| 80° | 29.6 | 30.8 | 35.9 | 40.9 | 46.2 | 51.5 | 52.3 | 53.0 | 51.0 | 49.0 | 46.0 |
| 82.5° | 20.5 | 21.2 | 23.0 | 24.8 | 29.0 | 33.3 | 34.3 | 35.4 | 34.3 | 33.3 | 30.1 |
| 85° | 12.4 | 12.6 | 13.4 | 14.1 | 16.2 | 18.2 | 19.2 | 20.2 | 19.7 | 19.2 | 17.4 |
| 87.5° | 5.6 | 5.6 | 5.8 | 6.1 | 6.6 | 7.1 | 8.3 | 9.6 | 8.8 | 8.1 | 7.3 |
| 90° | 20.2 | 17.0 | 13.8 | 10.9 | 8.5 | 6.0 | 3.6 | 1.1 | 3.6 | 6.0 | 8.5 |
| 92.5° | 43.5 | 42.1 | 40.6 | 39.1 | 37.6 | 36.2 | 34.7 | 33.2 | 34.7 | 36.2 | 37.6 |
| 95° | 78.0 | 76.0 | 74.0 | 72.2 | 70.5 | 68.8 | 67.0 | 65.3 | 67.0 | 68.8 | 70.5 |
| 97.5° | 116.6 | 115.1 | 113.7 | 112.3 | 111.1 | 109.8 | 108.6 | 107.4 | 108.6 | 109.8 | 111.1 |
| 100° | 160.3 | 159.0 | 157.8 | 156.5 | 155.0 | 153.5 | 152.0 | 150.6 | 152.0 | 153.5 | 155.0 |
| 102.5° | 208.0 | 206.3 | 204.6 | 203.3 | 202.6 | 201.8 | 201.1 | 200.4 | 201.1 | 201.8 | 202.6 |
| 105° | 256.8 | 254.6 | 252.4 | 251.0 | 250.6 | 250.1 | 249.6 | 249.1 | 249.6 | 250.1 | 250.6 |
| 107.5° | 310.2 | 309.2 | 308.2 | 307.6 | 307.4 | 307.1 | 306.9 | 306.6 | 306.9 | 307.1 | 307.4 |
| 110° | 363.2 | 362.7 | 362.2 | 361.7 | 361.3 | 360.8 | 360.3 | 359.8 | 360.3 | 360.8 | 361.3 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.2 | 416.2 | 416.2 | 416.1 | 415.9 | 415.6 | 415.4 | 415.1 | 415.4 | 415.6 | 415.9 |
| 115° | 472.6 | 473.1 | 473.6 | 473.4 | 472.7 | 472.0 | 471.2 | 470.5 | 471.2 | 472.0 | 472.7 |
| 117.5° | 526.8 | 527.3 | 527.8 | 527.9 | 527.7 | 527.4 | 527.2 | 526.9 | 527.2 | 527.4 | 527.7 |
| 120° | 582.5 | 583.8 | 585.0 | 584.9 | 583.4 | 581.9 | 580.4 | 579.0 | 580.4 | 581.9 | 583.4 |
| 122.5° | 636.4 | 636.9 | 637.4 | 637.1 | 636.2 | 635.2 | 634.2 | 633.2 | 634.2 | 635.2 | 636.2 |
| 125° | 690.7 | 691.1 | 691.6 | 691.5 | 690.8 | 690.0 | 689.3 | 688.6 | 689.3 | 690.0 | 690.8 |
| 127.5° | 744.9 | 745.4 | 745.9 | 745.4 | 743.9 | 742.4 | 741.0 | 739.5 | 741.0 | 742.4 | 743.9 |
| 130° | 797.4 | 798.2 | 798.9 | 798.3 | 796.3 | 794.3 | 792.4 | 790.4 | 792.4 | 794.3 | 796.3 |
| 132.5° | 849.0 | 849.4 | 849.9 | 849.2 | 847.2 | 845.3 | 843.3 | 841.3 | 843.3 | 845.3 | 847.2 |
| 135° | 899.4 | 899.6 | 899.9 | 899.3 | 897.8 | 896.3 | 894.8 | 893.4 | 894.8 | 896.3 | 897.8 |
| 137.5° | 948.3 | 947.6 | 946.9 | 945.9 | 944.7 | 943.4 | 942.2 | 941.0 | 942.2 | 943.4 | 944.7 |
| 140° | 996.9 | 996.7 | 996.4 | 995.7 | 994.5 | 993.2 | 992.0 | 990.8 | 992.0 | 993.2 | 994.5 |
| 142.5° | 1042.9 | 1042.4 | 1041.9 | 1041.1 | 1039.9 | 1038.6 | 1037.4 | 1036.2 | 1037.4 | 1038.6 | 1039.9 |
| 145° | 1087.8 | 1087.1 | 1086.3 | 1085.7 | 1085.2 | 1084.7 | 1084.3 | 1083.8 | 1084.3 | 1084.7 | 1085.2 |
| 147.5° | 1131.0 | 1130.3 | 1129.5 | 1128.7 | 1127.7 | 1126.7 | 1125.7 | 1124.7 | 1125.7 | 1126.7 | 1127.7 |
| 150° | 1171.3 | 1170.9 | 1170.4 | 1169.9 | 1169.4 | 1168.9 | 1168.4 | 1167.9 | 1168.4 | 1168.9 | 1169.4 |
| 152.5° | 1207.3 | 1207.0 | 1206.8 | 1206.3 | 1205.5 | 1204.8 | 1204.1 | 1203.3 | 1204.1 | 1204.8 | 1205.5 |
| 155° | 1241.6 | 1241.3 | 1241.1 | 1241.0 | 1241.0 | 1241.0 | 1241.0 | 1241.0 | 1241.0 | 1241.0 | 1241.0 |
| 157.5° | 1272.6 | 1272.3 | 1272.1 | 1272.1 | 1272.3 | 1272.6 | 1272.8 | 1273.1 | 1272.8 | 1272.6 | 1272.3 |
| 160° | 1300.7 | 1300.7 | 1300.7 | 1301.0 | 1301.5 | 1302.0 | 1302.5 | 1303.0 | 1302.5 | 1302.0 | 1301.5 |
| 162.5° | 1326.8 | 1326.6 | 1326.3 | 1326.6 | 1327.3 | 1328.0 | 1328.8 | 1329.5 | 1328.8 | 1328.0 | 1327.3 |
| 165° | 1348.3 | 1348.3 | 1348.3 | 1348.7 | 1349.4 | 1350.2 | 1350.9 | 1351.7 | 1350.9 | 1350.2 | 1349.4 |
| 167.5° | 1366.7 | 1366.4 | 1366.2 | 1366.5 | 1367.5 | 1368.5 | 1369.5 | 1370.5 | 1369.5 | 1368.5 | 1367.5 |
| 170° | 1381.6 | 1381.6 | 1381.6 | 1382.0 | 1383.0 | 1384.0 | 1385.0 | 1386.0 | 1385.0 | 1384.0 | 1383.0 |
| 172.5° | 1393.7 | 1393.7 | 1393.7 | 1394.2 | 1395.2 | 1396.2 | 1397.2 | 1398.2 | 1397.2 | 1396.2 | 1395.2 |
| 175° | 1401.5 | 1401.5 | 1401.5 | 1402.0 | 1403.0 | 1403.9 | 1404.9 | 1405.9 | 1404.9 | 1403.9 | 1403.0 |
| 177.5° | 1405.9 | 1405.9 | 1405.9 | 1406.4 | 1407.4 | 1408.4 | 1409.4 | 1410.3 | 1409.4 | 1408.4 | 1407.4 |
| 180° | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 | 1232.0 |
| 2.5° | 1192.6 | 1178.2 | 1163.8 | 1153.5 | 1143.1 | 1130.2 | 1117.4 | 1116.8 | 1116.3 | 1106.7 | 1097.1 |
| 5° | 1121.9 | 1096.9 | 1071.9 | 1047.4 | 1022.9 | 998.4 | 973.9 | 968.3 | 962.8 | 954.4 | 946.1 |
| 7.5° | 1059.3 | 1019.4 | 979.5 | 948.1 | 916.8 | 892.3 | 867.8 | 851.1 | 834.5 | 821.6 | 808.7 |
| 10° | 992.1 | 942.6 | 893.1 | 855.2 | 817.3 | 790.8 | 764.3 | 745.1 | 725.9 | 716.8 | 707.7 |
| 12.5° | 922.4 | 868.6 | 814.8 | 777.7 | 740.5 | 708.7 | 676.9 | 659.5 | 642.0 | 629.4 | 616.8 |
| 15° | 858.2 | 800.4 | 742.5 | 703.1 | 663.7 | 633.9 | 604.1 | 586.7 | 569.3 | 556.7 | 544.0 |
| 17.5° | 796.1 | 737.7 | 679.4 | 639.5 | 599.6 | 572.6 | 545.5 | 528.6 | 511.7 | 503.9 | 496.0 |
| 20° | 739.5 | 680.7 | 621.8 | 584.2 | 546.6 | 520.0 | 493.5 | 484.4 | 475.3 | 468.0 | 460.7 |
| 22.5° | 683.4 | 626.9 | 570.3 | 534.2 | 498.1 | 478.9 | 459.7 | 452.3 | 445.0 | 439.5 | 433.9 |
| 25° | 636.5 | 580.1 | 523.8 | 492.3 | 460.7 | 445.8 | 430.9 | 426.1 | 421.3 | 415.7 | 410.2 |
| 27.5° | 589.0 | 535.4 | 481.9 | 456.6 | 431.4 | 419.3 | 407.1 | 401.1 | 395.0 | 390.5 | 385.9 |
| 30° | 547.1 | 497.6 | 448.1 | 427.1 | 406.1 | 395.5 | 384.9 | 378.3 | 371.8 | 367.5 | 363.2 |
| 32.5° | 506.6 | 462.7 | 418.8 | 400.8 | 382.9 | 372.5 | 362.2 | 355.9 | 349.6 | 344.5 | 339.4 |
| 35° | 469.3 | 431.1 | 393.0 | 376.6 | 360.2 | 349.8 | 339.4 | 333.1 | 326.8 | 321.8 | 316.7 |
| 37.5° | 436.4 | 401.8 | 367.2 | 351.8 | 336.4 | 327.3 | 318.2 | 311.7 | 305.1 | 299.8 | 294.5 |
| 40° | 405.6 | 375.1 | 344.5 | 329.6 | 314.7 | 304.8 | 295.0 | 289.2 | 283.4 | 278.6 | 273.8 |
| 42.5° | 378.3 | 350.3 | 322.3 | 307.6 | 293.0 | 283.6 | 274.3 | 267.5 | 260.6 | 257.9 | 255.1 |
| 45° | 349.6 | 324.8 | 300.0 | 285.9 | 271.8 | 261.9 | 252.1 | 246.3 | 240.4 | 237.9 | 235.4 |
| 47.5° | 324.3 | 301.3 | 278.3 | 264.4 | 250.5 | 241.7 | 232.9 | 228.3 | 223.8 | 220.2 | 216.7 |
| 50° | 299.5 | 277.3 | 255.1 | 241.7 | 228.3 | 220.7 | 213.2 | 207.6 | 202.1 | 199.5 | 197.0 |
| 52.5° | 275.8 | 255.6 | 235.4 | 221.8 | 208.1 | 200.8 | 193.5 | 188.7 | 183.9 | 178.6 | 173.3 |
| 55° | 249.0 | 231.4 | 213.7 | 201.5 | 189.4 | 181.8 | 174.3 | 168.7 | 163.2 | 157.6 | 152.0 |
| 57.5° | 226.8 | 209.4 | 192.0 | 181.1 | 170.2 | 162.9 | 155.6 | 149.5 | 143.5 | 138.9 | 134.4 |
| 60° | 202.6 | 187.4 | 172.3 | 161.6 | 151.0 | 144.0 | 136.9 | 131.1 | 125.3 | 123.0 | 120.7 |
| 62.5° | 179.8 | 165.7 | 151.5 | 142.2 | 132.8 | 126.0 | 119.2 | 115.4 | 111.6 | 110.1 | 108.6 |
| 65° | 156.6 | 144.5 | 132.3 | 123.8 | 115.2 | 109.4 | 103.6 | 101.8 | 100.0 | 98.8 | 97.5 |
| 67.5° | 134.9 | 124.5 | 114.2 | 106.6 | 99.0 | 95.0 | 90.9 | 88.9 | 86.9 | 85.4 | 83.9 |
| 70° | 115.2 | 106.1 | 97.0 | 90.4 | 83.9 | 80.1 | 76.3 | 74.5 | 72.7 | 70.0 | 67.2 |
| 72.5° | 94.0 | 86.9 | 79.8 | 74.8 | 69.7 | 66.4 | 63.1 | 59.6 | 56.1 | 53.5 | 51.0 |
| 75° | 77.8 | 70.7 | 63.6 | 58.8 | 54.0 | 50.3 | 46.5 | 45.2 | 43.9 | 43.2 | 42.4 |
| 77.5° | 59.6 | 53.5 | 47.5 | 43.7 | 39.9 | 38.1 | 36.4 | 35.6 | 34.9 | 34.6 | 34.3 |
| 80° | 42.9 | 37.9 | 32.8 | 30.8 | 28.8 | 28.3 | 27.8 | 27.3 | 26.8 | 26.5 | 26.3 |
| 82.5° | 26.8 | 24.2 | 21.7 | 21.2 | 20.7 | 20.5 | 20.2 | 20.0 | 19.7 | 19.4 | 19.2 |
| 85° | 15.7 | 14.6 | 13.6 | 13.4 | 13.1 | 12.9 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 |
| 87.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.3 | 6.1 |
| 90° | 10.9 | 13.8 | 17.0 | 20.2 | 23.4 | 26.6 | 27.6 | 28.5 | 29.5 | 30.5 | 31.2 |
| 92.5° | 39.1 | 40.6 | 42.1 | 43.5 | 45.0 | 46.5 | 47.2 | 48.0 | 48.7 | 49.4 | 49.6 |
| 95° | 72.2 | 74.0 | 76.0 | 78.0 | 80.0 | 81.9 | 82.9 | 83.9 | 84.9 | 85.9 | 86.3 |
| 97.5° | 112.3 | 113.7 | 115.1 | 116.6 | 118.1 | 119.6 | 120.8 | 122.0 | 123.2 | 124.5 | 125.0 |
| 100° | 156.5 | 157.8 | 159.0 | 160.3 | 161.5 | 162.7 | 163.5 | 164.2 | 164.9 | 165.7 | 166.3 |
| 102.5° | 203.3 | 204.6 | 206.3 | 208.0 | 209.7 | 211.4 | 212.2 | 212.9 | 213.7 | 214.4 | 214.6 |
| 105° | 251.0 | 252.4 | 254.6 | 256.8 | 259.0 | 261.3 | 261.3 | 261.3 | 261.3 | 261.3 | 261.5 |
| 107.5° | 307.6 | 308.2 | 309.2 | 310.2 | 311.2 | 312.2 | 312.9 | 313.7 | 314.4 | 315.1 | 315.4 |
| 110° | 361.7 | 362.2 | 362.7 | 363.2 | 363.7 | 364.2 | 365.2 | 366.2 | 367.2 | 368.1 | 368.4 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.1 | 416.2 | 416.2 | 416.2 | 416.2 | 416.2 | 417.5 | 418.7 | 419.9 | 421.2 | 421.8 |
| 115° | 473.4 | 473.6 | 473.1 | 472.6 | 472.1 | 471.6 | 471.8 | 472.1 | 472.3 | 472.6 | 472.6 |
| 117.5° | 527.9 | 527.8 | 527.3 | 526.8 | 526.3 | 525.8 | 525.8 | 525.8 | 525.8 | 525.8 | 525.5 |
| 120° | 584.9 | 585.0 | 583.8 | 582.5 | 581.3 | 580.1 | 579.8 | 579.6 | 579.3 | 579.1 | 578.7 |
| 122.5° | 637.1 | 637.4 | 636.9 | 636.4 | 635.9 | 635.4 | 634.7 | 633.9 | 633.2 | 632.5 | 631.7 |
| 125° | 691.5 | 691.6 | 691.1 | 690.7 | 690.2 | 689.7 | 688.7 | 687.7 | 686.7 | 685.7 | 684.7 |
| 127.5° | 745.4 | 745.9 | 745.4 | 744.9 | 744.4 | 743.9 | 742.4 | 741.0 | 739.5 | 738.0 | 736.8 |
| 130° | 798.3 | 798.9 | 798.2 | 797.4 | 796.7 | 795.9 | 795.0 | 794.0 | 793.0 | 792.0 | 790.7 |
| 132.5° | 849.2 | 849.9 | 849.4 | 849.0 | 848.5 | 848.0 | 846.7 | 845.5 | 844.3 | 843.1 | 841.8 |
| 135° | 899.3 | 899.9 | 899.6 | 899.4 | 899.1 | 898.9 | 897.9 | 896.9 | 895.9 | 895.0 | 894.2 |
| 137.5° | 945.9 | 946.9 | 947.6 | 948.3 | 949.1 | 949.8 | 948.6 | 947.4 | 946.1 | 944.9 | 943.9 |
| 140° | 995.7 | 996.4 | 996.7 | 996.9 | 997.2 | 997.4 | 997.2 | 996.9 | 996.7 | 996.4 | 995.5 |
| 142.5° | 1041.1 | 1041.9 | 1042.4 | 1042.9 | 1043.4 | 1043.9 | 1043.7 | 1043.4 | 1043.2 | 1042.9 | 1042.2 |
| 145° | 1085.7 | 1086.3 | 1087.1 | 1087.8 | 1088.6 | 1089.3 | 1089.1 | 1088.8 | 1088.6 | 1088.3 | 1087.7 |
| 147.5° | 1128.7 | 1129.5 | 1130.3 | 1131.0 | 1131.7 | 1132.5 | 1132.5 | 1132.5 | 1132.5 | 1132.5 | 1131.7 |
| 150° | 1169.9 | 1170.4 | 1170.9 | 1171.3 | 1171.8 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1171.6 |
| 152.5° | 1206.3 | 1206.8 | 1207.0 | 1207.3 | 1207.5 | 1207.8 | 1208.2 | 1208.7 | 1209.2 | 1209.7 | 1209.4 |
| 155° | 1241.0 | 1241.1 | 1241.3 | 1241.6 | 1241.8 | 1242.1 | 1243.1 | 1244.0 | 1245.0 | 1246.0 | 1245.6 |
| 157.5° | 1272.1 | 1272.1 | 1272.3 | 1272.6 | 1272.8 | 1273.1 | 1274.0 | 1275.0 | 1276.0 | 1277.0 | 1276.8 |
| 160° | 1301.0 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1300.7 | 1302.0 | 1303.2 | 1304.4 | 1305.7 | 1305.8 |
| 162.5° | 1326.6 | 1326.3 | 1326.6 | 1326.8 | 1327.1 | 1327.3 | 1328.5 | 1329.8 | 1331.0 | 1332.2 | 1332.0 |
| 165° | 1348.7 | 1348.3 | 1348.3 | 1348.3 | 1348.3 | 1348.3 | 1349.8 | 1351.3 | 1352.8 | 1354.2 | 1354.1 |
| 167.5° | 1366.5 | 1366.2 | 1366.4 | 1366.7 | 1366.9 | 1367.2 | 1368.6 | 1370.1 | 1371.6 | 1373.1 | 1373.1 |
| 170° | 1382.0 | 1381.6 | 1381.6 | 1381.6 | 1381.6 | 1381.6 | 1383.3 | 1385.0 | 1386.7 | 1388.4 | 1388.4 |
| 172.5° | 1394.2 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1395.2 | 1396.7 | 1398.2 | 1399.6 | 1399.5 |
| 175° | 1402.0 | 1401.5 | 1401.5 | 1401.5 | 1401.5 | 1401.5 | 1403.0 | 1404.4 | 1405.9 | 1407.4 | 1407.3 |
| 177.5° | 1406.4 | 1405.9 | 1405.9 | 1405.9 | 1405.9 | 1405.9 | 1407.4 | 1408.9 | 1410.3 | 1411.8 | 1411.7 |
| 180° | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 | 1409.2 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 1232.0 | 1232.0 | 1232.0 | 1232.0 |
| 2.5° | 1094.6 | 1092.1 | 1091.1 | 1090.1 |
| 5° | 938.3 | 930.5 | 928.7 | 926.9 |
| 7.5° | 805.4 | 802.2 | 791.3 | 780.4 |
| 10° | 697.6 | 687.5 | 682.9 | 678.4 |
| 12.5° | 607.4 | 598.1 | 596.6 | 595.0 |
| 15° | 537.5 | 530.9 | 528.6 | 526.3 |
| 17.5° | 491.5 | 486.9 | 484.2 | 481.4 |
| 20° | 457.4 | 454.1 | 452.1 | 450.1 |
| 22.5° | 431.4 | 428.9 | 427.3 | 425.8 |
| 25° | 406.4 | 402.6 | 401.3 | 400.1 |
| 27.5° | 382.6 | 379.4 | 378.1 | 376.8 |
| 30° | 360.4 | 357.6 | 355.9 | 354.1 |
| 32.5° | 336.2 | 332.9 | 331.9 | 330.9 |
| 35° | 314.7 | 312.7 | 311.7 | 310.7 |
| 37.5° | 292.0 | 289.4 | 287.9 | 286.4 |
| 40° | 272.5 | 271.3 | 270.5 | 269.7 |
| 42.5° | 252.8 | 250.5 | 250.3 | 250.0 |
| 45° | 233.1 | 230.8 | 230.3 | 229.8 |
| 47.5° | 214.7 | 212.7 | 212.4 | 212.2 |
| 50° | 194.2 | 191.4 | 189.4 | 187.4 |
| 52.5° | 170.7 | 168.2 | 166.4 | 164.7 |
| 55° | 149.3 | 146.5 | 145.0 | 143.5 |
| 57.5° | 133.1 | 131.8 | 131.1 | 130.3 |
| 60° | 120.0 | 119.2 | 118.7 | 118.2 |
| 62.5° | 107.8 | 107.1 | 107.1 | 107.1 |
| 65° | 96.7 | 96.0 | 95.2 | 94.5 |
| 67.5° | 82.3 | 80.8 | 80.6 | 80.3 |
| 70° | 64.9 | 62.6 | 62.4 | 62.1 |
| 72.5° | 50.8 | 50.5 | 50.0 | 49.5 |
| 75° | 41.9 | 41.4 | 41.4 | 41.4 |
| 77.5° | 33.8 | 33.3 | 33.3 | 33.3 |
| 80° | 26.0 | 25.8 | 26.0 | 26.3 |
| 82.5° | 19.2 | 19.2 | 18.9 | 18.7 |
| 85° | 12.4 | 12.1 | 12.1 | 12.1 |
| 87.5° | 6.1 | 6.1 | 6.1 | 6.1 |
| 90° | 31.7 | 32.2 | 32.7 | 33.2 |
| 92.5° | 49.1 | 48.6 | 48.1 | 47.6 |
| 95° | 86.3 | 86.3 | 86.3 | 86.3 |
| 97.5° | 124.7 | 124.5 | 124.2 | 124.0 |
| 100° | 166.8 | 167.3 | 167.8 | 168.3 |
| 102.5° | 214.4 | 214.1 | 213.9 | 213.7 |
| 105° | 262.0 | 262.5 | 263.0 | 263.5 |
| 107.5° | 315.1 | 314.9 | 314.6 | 314.4 |
| 110° | 367.9 | 367.4 | 366.9 | 366.4 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 421.8 | 421.8 | 421.8 | 421.8 |
| 115° | 472.3 | 472.1 | 471.8 | 471.6 |
| 117.5° | 524.7 | 524.0 | 523.2 | 522.5 |
| 120° | 578.2 | 577.7 | 577.2 | 576.8 |
| 122.5° | 631.0 | 630.3 | 629.5 | 628.8 |
| 125° | 683.8 | 682.8 | 681.8 | 680.8 |
| 127.5° | 735.8 | 734.8 | 733.8 | 732.8 |
| 130° | 788.9 | 787.2 | 785.5 | 783.8 |
| 132.5° | 840.6 | 839.4 | 838.1 | 836.9 |
| 135° | 893.7 | 893.2 | 892.7 | 892.3 |
| 137.5° | 943.2 | 942.4 | 941.7 | 941.0 |
| 140° | 993.7 | 992.0 | 990.3 | 988.6 |
| 142.5° | 1041.0 | 1039.7 | 1038.5 | 1037.3 |
| 145° | 1086.7 | 1085.7 | 1084.7 | 1083.8 |
| 147.5° | 1130.3 | 1128.8 | 1127.3 | 1125.8 |
| 150° | 1170.1 | 1168.6 | 1167.2 | 1165.7 |
| 152.5° | 1208.1 | 1206.9 | 1205.7 | 1204.4 |
| 155° | 1243.9 | 1242.2 | 1240.5 | 1238.7 |
| 157.5° | 1275.3 | 1273.8 | 1272.3 | 1270.9 |
| 160° | 1304.8 | 1303.8 | 1302.8 | 1301.8 |
| 162.5° | 1330.3 | 1328.5 | 1326.8 | 1325.1 |
| 165° | 1352.4 | 1350.7 | 1349.0 | 1347.2 |
| 167.5° | 1371.6 | 1370.1 | 1368.6 | 1367.2 |
| 170° | 1386.7 | 1385.0 | 1383.3 | 1381.6 |
| 172.5° | 1397.8 | 1396.1 | 1394.3 | 1392.6 |
| 175° | 1405.5 | 1403.8 | 1402.1 | 1400.4 |
| 177.5° | 1410.0 | 1408.2 | 1406.5 | 1404.8 |
| 180° | 1409.2 | 1409.2 | 1409.2 | 1409.2 |



TEST NUMBER: P832045

CATALOG NUMBER: S123RDIP-S340D1025U850-4F0-1E-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 | 7.42 | 8.09 | 8.54 | 9.20 | 10.74 | 12.08 | 12.76 | 13.20 | 13.87 | 15.41 |
| | 3H | 8.63 | 9.23 | 9.76 | 10.35 | 11.90 | 13.57 | 14.17 | 14.70 | 15.29 | 16.85 |
| | 4H | 9.00 | 9.57 | 10.14 | 10.69 | 12.25 | 14.05 | 14.62 | 15.19 | 15.74 | 17.30 |
| | 6H | 9.27 | 9.80 | 10.42 | 10.92 | 12.49 | 14.35 | 14.88 | 15.50 | 16.00 | 17.58 |
| | 8H | 9.36 | 9.86 | 10.51 | 10.99 | 12.56 | 14.43 | 14.93 | 15.58 | 16.07 | 17.63 |
| | 12H | 9.40 | 9.88 | 10.56 | 11.01 | 12.60 | 14.46 | 14.93 | 15.61 | 16.06 | 17.65 |
| 4H | 2H | 8.12 | 8.69 | 9.27 | 9.81 | 11.37 | 12.06 | 12.63 | 13.20 | 13.75 | 15.31 |
| | 3H | 9.48 | 9.95 | 10.63 | 11.10 | 12.67 | 13.70 | 14.18 | 14.85 | 15.32 | 16.90 |
| | 4H | 9.93 | 10.36 | 11.08 | 11.50 | 13.09 | 14.30 | 14.74 | 15.46 | 15.87 | 17.47 |
| | 6H | 10.29 | 10.66 | 11.45 | 11.82 | 13.40 | 14.73 | 15.11 | 15.89 | 16.26 | 17.85 |
| | 8H | 10.41 | 10.76 | 11.57 | 11.91 | 13.51 | 14.86 | 15.21 | 16.02 | 16.36 | 17.96 |
| | 12H | 10.48 | 10.79 | 11.65 | 11.95 | 13.56 | 14.91 | 15.23 | 16.09 | 16.39 | 18.00 |
| 8H | 4H | 10.23 | 10.58 | 11.39 | 11.73 | 13.33 | 14.26 | 14.61 | 15.42 | 15.76 | 17.36 |
| | 6H | 10.69 | 10.98 | 11.87 | 12.17 | 13.76 | 14.75 | 15.04 | 15.93 | 16.23 | 17.82 |
| | 8H | 10.88 | 11.13 | 12.07 | 12.30 | 13.92 | 14.93 | 15.19 | 16.12 | 16.36 | 17.97 |
| | 12H | 11.02 | 11.24 | 12.21 | 12.40 | 14.05 | 15.04 | 15.26 | 16.23 | 16.43 | 18.08 |
| 12H | 4H | 10.23 | 10.55 | 11.41 | 11.71 | 13.31 | 14.20 | 14.52 | 15.38 | 15.68 | 17.28 |
| | 6H | 10.75 | 11.00 | 11.93 | 12.17 | 13.78 | 14.72 | 14.97 | 15.91 | 16.14 | 17.76 |
| | 8H | 10.96 | 11.18 | 12.15 | 12.34 | 13.99 | 14.91 | 15.13 | 16.10 | 16.30 | 17.95 |