

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: P832078

Luminaire Tested: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832078
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-S340D1195U930-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

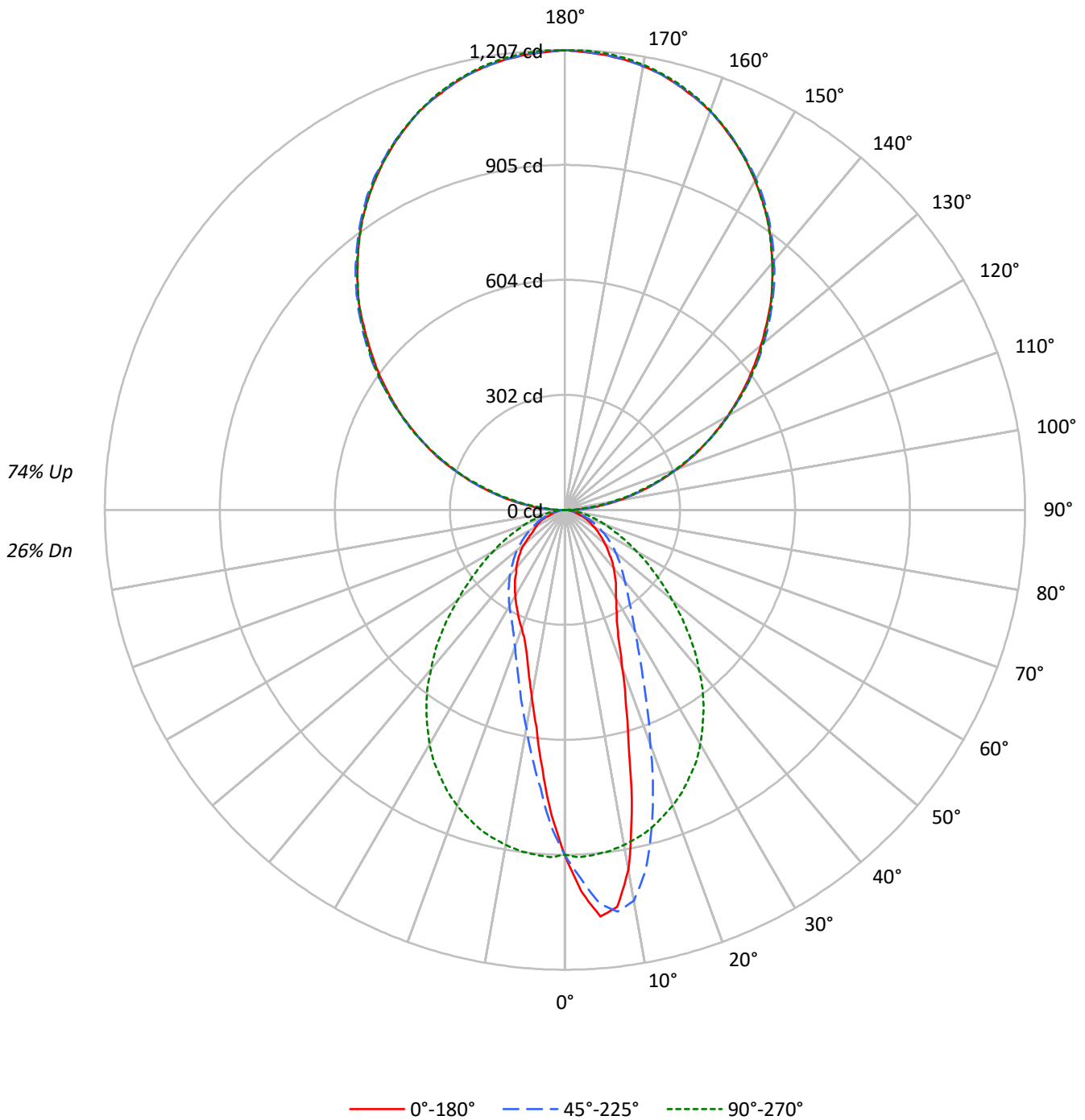
Lumens per Lamp: N/A
Luminaire Lumens: 4544.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 43.4
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: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-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 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 26 | | | | |
| 1 | 93 | 89 | 85 | 82 | 83 | 80 | 77 | 74 | 62 | 60 | 58 | 46 | 45 | 44 | 31 | 30 | 30 | 23 | | | | |
| 2 | 85 | 78 | 72 | 68 | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 41 | 39 | 37 | 28 | 27 | 26 | 20 | | | | |
| 3 | 78 | 69 | 62 | 57 | 69 | 62 | 56 | 52 | 49 | 45 | 42 | 36 | 34 | 32 | 25 | 24 | 23 | 18 | | | | |
| 4 | 71 | 61 | 54 | 48 | 64 | 55 | 49 | 44 | 44 | 39 | 36 | 33 | 30 | 28 | 23 | 21 | 20 | 16 | | | | |
| 5 | 66 | 55 | 47 | 42 | 58 | 49 | 43 | 38 | 39 | 35 | 31 | 30 | 27 | 24 | 21 | 19 | 18 | 14 | | | | |
| 6 | 60 | 49 | 42 | 36 | 54 | 44 | 38 | 33 | 35 | 31 | 27 | 27 | 24 | 21 | 19 | 17 | 16 | 13 | | | | |
| 7 | 56 | 44 | 37 | 32 | 50 | 40 | 34 | 29 | 32 | 28 | 24 | 25 | 22 | 19 | 18 | 16 | 14 | 11 | | | | |
| 8 | 52 | 40 | 33 | 28 | 46 | 37 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 17 | 16 | 14 | 13 | 10 | | | | |
| 9 | 48 | 37 | 30 | 25 | 43 | 34 | 27 | 23 | 27 | 23 | 19 | 21 | 18 | 16 | 15 | 13 | 12 | 10 | | | | |
| 10 | 45 | 34 | 27 | 23 | 40 | 31 | 25 | 21 | 25 | 21 | 18 | 19 | 16 | 14 | 14 | 12 | 11 | 9 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 9749 | 9749 | 9749 | 9749 | 9749 |
| 5° | 11577 | 11207 | 9811 | 7931 | 7363 |
| 10° | 10488 | 11384 | 9762 | 6355 | 5451 |
| 15° | 7221 | 9760 | 9658 | 5194 | 4313 |
| 20° | 5024 | 7514 | 9465 | 4379 | 3790 |
| 25° | 3828 | 5727 | 9183 | 3892 | 3493 |
| 30° | 3332 | 4579 | 8830 | 3614 | 3235 |
| 35° | 3059 | 3862 | 8330 | 3380 | 3001 |
| 40° | 2792 | 3450 | 7676 | 3149 | 2786 |
| 45° | 2521 | 3154 | 6970 | 2930 | 2573 |
| 50° | 2289 | 2910 | 6137 | 2718 | 2308 |
| 55° | 2070 | 2672 | 5339 | 2509 | 1980 |
| 60° | 1856 | 2430 | 4637 | 2278 | 1871 |
| 65° | 1712 | 2157 | 3991 | 2048 | 1768 |
| 70° | 1391 | 1863 | 3484 | 1854 | 1438 |
| 75° | 1219 | 1485 | 2949 | 1535 | 1268 |
| 80° | 1103 | 1252 | 2417 | 1289 | 1196 |
| 85° | 1013 | 1099 | 1840 | 1173 | 1099 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 7354 cd/sqm



TEST NUMBER: P832078

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.6 | 1.8 |
| 10°-20° | 191.0 | 4.2 |
| 20°-30° | 219.2 | 4.8 |
| 30°-40° | 216.0 | 4.8 |
| 40°-50° | 190.5 | 4.2 |
| 50°-60° | 146.6 | 3.2 |
| 60°-70° | 96.4 | 2.1 |
| 70°-80° | 46.8 | 1.0 |
| 80°-90° | 14.3 | 0.3 |
| 90°-100° | 77.6 | 1.7 |
| 100°-110° | 235.0 | 5.2 |
| 110°-120° | 400.0 | 8.8 |
| 120°-130° | 526.2 | 11.6 |
| 130°-140° | 591.5 | 13.0 |
| 140°-150° | 581.5 | 12.8 |
| 150°-160° | 489.5 | 10.8 |
| 160°-170° | 325.9 | 7.2 |
| 170°-180° | 114.1 | 2.5 |
| 0°-30° | 492.8 | 10.8 |
| 0°-40° | 708.8 | 15.6 |
| 0°-60° | 1045.9 | 23.0 |
| 0°-90° | 1203.4 | 26.5 |
| 90°-120° | 712.6 | 15.7 |
| 90°-150° | 2411.7 | 53.1 |
| 90°-180° | 3341.0 | 73.5 |
| 0°-180° | 4544.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 906 | 906 | 906 | 906 | 906 | |
| 5° | 1071 | 1037 | 908 | 734 | 681 | 98 |
| 15° | 648 | 876 | 867 | 466 | 387 | 183 |
| 25° | 322 | 482 | 773 | 328 | 294 | 152 |
| 35° | 233 | 294 | 634 | 257 | 228 | 145 |
| 45° | 166 | 207 | 458 | 192 | 169 | 129 |
| 55° | 110 | 142 | 284 | 134 | 106 | 99 |
| 65° | 67 | 85 | 157 | 80 | 69 | 66 |
| 75° | 29 | 36 | 71 | 37 | 30 | 32 |
| 85° | 8 | 9 | 15 | 10 | 9 | 9 |
| 90° | 28 | 23 | 1 | 23 | 28 | 14 |
| 95° | 74 | 70 | 56 | 70 | 74 | 74 |
| 105° | 226 | 224 | 213 | 224 | 226 | 239 |
| 115° | 404 | 404 | 403 | 404 | 404 | 400 |
| 125° | 583 | 590 | 589 | 590 | 583 | 521 |
| 135° | 764 | 769 | 764 | 769 | 764 | 587 |
| 145° | 927 | 932 | 927 | 932 | 927 | 579 |
| 155° | 1060 | 1063 | 1062 | 1063 | 1060 | 488 |
| 165° | 1153 | 1154 | 1157 | 1154 | 1153 | 325 |
| 175° | 1198 | 1199 | 1203 | 1199 | 1198 | 114 |
| 180° | 1206 | 1206 | 1206 | 1206 | 1206 | |



TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 |
| 2.5° | 1003.8 | 1000.6 | 997.5 | 996.5 | 995.6 | 992.6 | 989.7 | 983.0 | 976.3 | 969.4 | 962.6 |
| 5° | 1071.4 | 1071.7 | 1072.1 | 1071.2 | 1070.2 | 1066.3 | 1062.4 | 1054.3 | 1046.1 | 1037.2 | 1028.3 |
| 7.5° | 1050.6 | 1056.5 | 1062.4 | 1063.6 | 1064.7 | 1067.6 | 1070.6 | 1068.8 | 1066.9 | 1063.6 | 1060.2 |
| 10° | 959.6 | 959.2 | 958.8 | 965.5 | 972.2 | 992.1 | 1011.9 | 1022.2 | 1032.4 | 1041.5 | 1050.6 |
| 12.5° | 811.0 | 811.6 | 812.2 | 834.1 | 856.0 | 874.7 | 893.5 | 919.5 | 945.5 | 973.5 | 1001.5 |
| 15° | 648.0 | 657.1 | 666.2 | 685.7 | 705.2 | 733.4 | 761.7 | 796.6 | 831.5 | 875.8 | 920.2 |
| 17.5° | 532.2 | 536.1 | 540.0 | 558.7 | 577.5 | 604.2 | 630.9 | 670.5 | 710.0 | 767.2 | 824.4 |
| 20° | 438.6 | 442.1 | 445.6 | 459.2 | 472.7 | 498.4 | 524.0 | 561.7 | 599.4 | 656.0 | 712.6 |
| 22.5° | 366.2 | 373.0 | 379.9 | 389.0 | 398.1 | 416.7 | 435.2 | 473.7 | 512.1 | 563.7 | 615.3 |
| 25° | 322.3 | 325.5 | 328.7 | 336.4 | 344.2 | 362.1 | 379.9 | 405.3 | 430.8 | 482.2 | 533.6 |
| 27.5° | 292.6 | 293.6 | 294.5 | 300.2 | 306.0 | 317.5 | 329.0 | 352.6 | 376.2 | 418.5 | 460.9 |
| 30° | 268.1 | 269.8 | 271.5 | 275.9 | 280.4 | 288.7 | 297.1 | 313.8 | 330.5 | 368.4 | 406.3 |
| 32.5° | 249.2 | 250.1 | 251.0 | 254.8 | 258.5 | 264.6 | 270.7 | 283.9 | 297.1 | 326.1 | 355.0 |
| 35° | 232.8 | 233.0 | 233.2 | 236.0 | 238.8 | 244.7 | 250.7 | 261.6 | 272.6 | 293.9 | 315.3 |
| 37.5° | 214.3 | 215.6 | 216.9 | 218.9 | 221.0 | 226.2 | 231.4 | 240.3 | 249.2 | 266.8 | 284.5 |
| 40° | 198.7 | 199.8 | 200.9 | 203.3 | 205.7 | 209.8 | 213.9 | 222.1 | 230.2 | 245.5 | 260.7 |
| 42.5° | 183.1 | 183.8 | 184.6 | 187.0 | 189.4 | 194.4 | 199.4 | 205.9 | 212.4 | 225.0 | 237.7 |
| 45° | 165.6 | 167.5 | 169.3 | 171.9 | 174.5 | 178.8 | 183.1 | 189.8 | 196.4 | 207.2 | 218.0 |
| 47.5° | 151.1 | 152.1 | 153.0 | 155.2 | 157.5 | 162.7 | 167.9 | 173.8 | 179.7 | 189.8 | 199.8 |
| 50° | 136.7 | 137.0 | 137.4 | 139.4 | 141.5 | 146.1 | 150.8 | 157.6 | 164.5 | 173.8 | 183.1 |
| 52.5° | 122.9 | 123.8 | 124.8 | 126.8 | 128.9 | 132.0 | 135.2 | 142.2 | 149.3 | 158.4 | 167.5 |
| 55° | 110.3 | 110.8 | 111.4 | 112.9 | 114.4 | 118.1 | 121.8 | 127.9 | 134.1 | 142.4 | 150.8 |
| 57.5° | 98.4 | 99.2 | 99.9 | 101.0 | 102.1 | 105.5 | 108.8 | 114.2 | 119.6 | 127.9 | 136.3 |
| 60° | 86.2 | 87.1 | 88.0 | 89.3 | 90.6 | 93.2 | 95.8 | 100.6 | 105.5 | 112.9 | 120.3 |
| 62.5° | 77.2 | 77.4 | 77.6 | 78.7 | 79.8 | 81.7 | 83.6 | 87.5 | 91.4 | 98.8 | 106.2 |
| 65° | 67.2 | 67.8 | 68.3 | 68.9 | 69.4 | 70.9 | 72.4 | 75.8 | 79.1 | 84.7 | 90.2 |
| 67.5° | 56.8 | 57.4 | 57.9 | 58.9 | 59.8 | 61.1 | 62.4 | 64.6 | 66.8 | 72.0 | 77.2 |
| 70° | 44.2 | 44.2 | 44.2 | 45.7 | 47.2 | 49.4 | 51.6 | 53.3 | 55.0 | 59.2 | 63.5 |
| 72.5° | 36.0 | 36.2 | 36.4 | 36.6 | 36.8 | 38.1 | 39.4 | 42.1 | 44.9 | 47.5 | 50.1 |
| 75° | 29.3 | 29.5 | 29.7 | 29.9 | 30.1 | 30.5 | 30.8 | 31.8 | 32.7 | 35.7 | 38.6 |
| 77.5° | 23.4 | 23.6 | 23.8 | 24.0 | 24.1 | 24.5 | 24.9 | 25.3 | 25.6 | 26.7 | 27.9 |
| 80° | 17.8 | 18.0 | 18.2 | 18.4 | 18.6 | 18.8 | 18.9 | 19.3 | 19.7 | 20.2 | 20.8 |
| 82.5° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.4 | 13.7 | 13.7 | 13.7 | 14.1 | 14.5 |
| 85° | 8.2 | 8.2 | 8.2 | 8.4 | 8.5 | 8.5 | 8.5 | 8.7 | 8.9 | 8.9 | 8.9 |
| 87.5° | 3.7 | 3.5 | 3.3 | 3.5 | 3.7 | 3.7 | 3.7 | 3.9 | 4.1 | 4.1 | 4.1 |
| 90° | 28.4 | 28.0 | 27.6 | 27.2 | 26.7 | 26.1 | 25.3 | 24.4 | 23.6 | 22.7 | 20.0 |
| 92.5° | 40.7 | 41.2 | 41.6 | 42.0 | 42.4 | 42.3 | 41.7 | 41.0 | 40.4 | 39.8 | 38.5 |
| 95° | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.5 | 72.6 | 71.8 | 70.9 | 70.1 | 68.4 |
| 97.5° | 106.1 | 106.3 | 106.5 | 106.7 | 106.9 | 106.5 | 105.5 | 104.4 | 103.4 | 102.3 | 101.0 |
| 100° | 144.0 | 143.6 | 143.1 | 142.7 | 142.3 | 141.8 | 141.1 | 140.5 | 139.9 | 139.3 | 138.2 |
| 102.5° | 182.8 | 183.0 | 183.2 | 183.5 | 183.7 | 183.5 | 182.8 | 182.2 | 181.6 | 180.9 | 179.5 |
| 105° | 225.5 | 225.0 | 224.6 | 224.2 | 223.8 | 223.6 | 223.6 | 223.6 | 223.6 | 223.6 | 221.7 |
| 107.5° | 269.0 | 269.2 | 269.4 | 269.7 | 269.9 | 269.7 | 269.0 | 268.4 | 267.8 | 267.1 | 266.3 |
| 110° | 313.5 | 314.0 | 314.4 | 314.8 | 315.2 | 315.0 | 314.2 | 313.3 | 312.5 | 311.7 | 311.2 |



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CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.4 | 359.3 | 358.3 | 357.2 | 356.2 | 356.2 |
| 115° | 403.5 | 403.8 | 404.0 | 404.2 | 404.4 | 404.4 | 404.2 | 404.0 | 403.8 | 403.5 | 404.0 |
| 117.5° | 447.1 | 447.7 | 448.4 | 449.0 | 449.6 | 450.0 | 450.0 | 450.0 | 450.0 | 450.0 | 450.4 |
| 120° | 493.5 | 494.0 | 494.4 | 494.8 | 495.2 | 495.5 | 495.7 | 496.0 | 496.2 | 496.4 | 497.4 |
| 122.5° | 538.1 | 538.7 | 539.3 | 539.9 | 540.6 | 541.2 | 541.8 | 542.5 | 543.1 | 543.7 | 544.2 |
| 125° | 582.6 | 583.4 | 584.3 | 585.1 | 585.9 | 586.8 | 587.6 | 588.5 | 589.3 | 590.2 | 590.6 |
| 127.5° | 627.1 | 627.9 | 628.8 | 629.6 | 630.5 | 631.5 | 632.8 | 634.0 | 635.3 | 636.6 | 637.0 |
| 130° | 670.7 | 672.1 | 673.6 | 675.1 | 676.6 | 677.7 | 678.6 | 679.4 | 680.3 | 681.1 | 681.7 |
| 132.5° | 716.1 | 717.2 | 718.2 | 719.3 | 720.4 | 721.4 | 722.5 | 723.5 | 724.6 | 725.6 | 726.0 |
| 135° | 763.5 | 763.9 | 764.3 | 764.8 | 765.2 | 765.8 | 766.7 | 767.5 | 768.3 | 769.2 | 769.4 |
| 137.5° | 805.2 | 805.8 | 806.5 | 807.1 | 807.7 | 808.6 | 809.6 | 810.7 | 811.7 | 812.8 | 812.1 |
| 140° | 845.9 | 847.4 | 848.9 | 850.3 | 851.8 | 852.7 | 852.9 | 853.1 | 853.3 | 853.5 | 853.3 |
| 142.5° | 887.6 | 888.7 | 889.7 | 890.8 | 891.8 | 892.4 | 892.7 | 892.9 | 893.1 | 893.3 | 892.9 |
| 145° | 927.4 | 928.2 | 929.1 | 929.9 | 930.8 | 931.3 | 931.5 | 931.7 | 931.9 | 932.1 | 931.5 |
| 147.5° | 963.4 | 964.6 | 965.9 | 967.2 | 968.4 | 969.1 | 969.1 | 969.1 | 969.1 | 969.1 | 968.4 |
| 150° | 997.5 | 998.7 | 1000.0 | 1001.3 | 1002.5 | 1003.2 | 1003.2 | 1003.2 | 1003.2 | 1003.2 | 1002.7 |
| 152.5° | 1030.6 | 1031.7 | 1032.7 | 1033.8 | 1034.9 | 1035.2 | 1034.7 | 1034.3 | 1033.9 | 1033.5 | 1033.3 |
| 155° | 1060.0 | 1061.5 | 1063.0 | 1064.4 | 1065.9 | 1066.2 | 1065.4 | 1064.5 | 1063.7 | 1062.8 | 1062.6 |
| 157.5° | 1087.5 | 1088.7 | 1090.0 | 1091.3 | 1092.5 | 1092.7 | 1091.9 | 1091.1 | 1090.2 | 1089.4 | 1089.2 |
| 160° | 1114.0 | 1114.8 | 1115.7 | 1116.5 | 1117.4 | 1117.3 | 1116.2 | 1115.2 | 1114.1 | 1113.1 | 1113.1 |
| 162.5° | 1133.9 | 1135.4 | 1136.8 | 1138.3 | 1139.8 | 1140.0 | 1138.9 | 1137.9 | 1136.8 | 1135.8 | 1135.6 |
| 165° | 1152.8 | 1154.3 | 1155.8 | 1157.3 | 1158.7 | 1158.8 | 1157.6 | 1156.3 | 1155.1 | 1153.8 | 1153.8 |
| 167.5° | 1169.9 | 1171.2 | 1172.4 | 1173.7 | 1174.9 | 1174.9 | 1173.7 | 1172.4 | 1171.2 | 1169.9 | 1169.7 |
| 170° | 1182.2 | 1183.7 | 1185.2 | 1186.6 | 1188.1 | 1188.1 | 1186.6 | 1185.2 | 1183.7 | 1182.2 | 1182.2 |
| 172.5° | 1191.7 | 1193.2 | 1194.6 | 1196.1 | 1197.6 | 1197.7 | 1196.4 | 1195.2 | 1193.9 | 1192.6 | 1192.6 |
| 175° | 1198.3 | 1199.8 | 1201.3 | 1202.7 | 1204.2 | 1204.3 | 1203.0 | 1201.8 | 1200.5 | 1199.3 | 1199.3 |
| 177.5° | 1202.1 | 1203.6 | 1205.0 | 1206.5 | 1208.0 | 1208.1 | 1206.8 | 1205.6 | 1204.3 | 1203.0 | 1203.0 |
| 180° | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 |



TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 |
| 2.5° | 961.6 | 960.7 | 951.8 | 942.9 | 934.1 | 925.4 | 918.9 | 912.4 | 901.5 | 890.5 | 883.6 |
| 5° | 1021.2 | 1014.2 | 1000.1 | 986.0 | 964.8 | 943.6 | 925.8 | 908.0 | 885.3 | 862.7 | 843.7 |
| 7.5° | 1054.5 | 1048.7 | 1031.6 | 1014.5 | 986.5 | 958.5 | 930.6 | 902.8 | 869.3 | 835.9 | 807.3 |
| 10° | 1055.4 | 1060.2 | 1046.1 | 1032.0 | 1000.4 | 968.9 | 931.0 | 893.1 | 848.2 | 803.2 | 766.3 |
| 12.5° | 1022.3 | 1043.1 | 1040.2 | 1037.2 | 1005.1 | 973.0 | 926.9 | 880.9 | 825.7 | 770.6 | 724.3 |
| 15° | 960.5 | 1000.8 | 1012.7 | 1024.6 | 998.0 | 971.5 | 919.1 | 866.7 | 801.9 | 737.1 | 684.0 |
| 17.5° | 880.9 | 937.3 | 968.7 | 1000.1 | 980.8 | 961.4 | 904.1 | 846.7 | 773.7 | 700.7 | 643.0 |
| 20° | 786.5 | 860.4 | 909.6 | 958.8 | 951.8 | 944.7 | 885.5 | 826.3 | 747.5 | 668.8 | 606.2 |
| 22.5° | 693.3 | 771.3 | 839.3 | 907.2 | 914.5 | 921.7 | 861.9 | 802.1 | 716.0 | 629.8 | 566.1 |
| 25° | 612.9 | 692.2 | 773.2 | 854.1 | 870.5 | 886.8 | 830.0 | 773.2 | 683.9 | 594.5 | 531.2 |
| 27.5° | 536.2 | 611.6 | 700.7 | 789.9 | 819.6 | 849.3 | 797.3 | 745.3 | 652.3 | 559.3 | 496.1 |
| 30° | 473.7 | 541.1 | 632.0 | 723.0 | 764.4 | 805.8 | 758.1 | 710.4 | 618.1 | 525.8 | 464.0 |
| 32.5° | 415.4 | 475.7 | 567.1 | 658.4 | 706.5 | 754.6 | 713.4 | 672.2 | 583.4 | 494.6 | 433.6 |
| 35° | 369.3 | 423.3 | 508.6 | 593.8 | 647.6 | 701.5 | 667.7 | 633.9 | 547.2 | 460.5 | 402.7 |
| 37.5° | 329.8 | 375.1 | 455.1 | 535.1 | 592.3 | 649.5 | 621.3 | 593.1 | 511.5 | 430.0 | 375.4 |
| 40° | 297.1 | 333.5 | 407.9 | 482.4 | 538.5 | 594.5 | 570.4 | 546.3 | 473.3 | 400.3 | 349.3 |
| 42.5° | 269.0 | 300.4 | 367.3 | 434.1 | 485.5 | 537.0 | 521.0 | 505.0 | 438.9 | 372.8 | 325.5 |
| 45° | 244.4 | 270.7 | 329.6 | 388.4 | 435.8 | 483.1 | 470.5 | 457.9 | 400.9 | 343.9 | 300.4 |
| 47.5° | 222.4 | 245.1 | 297.6 | 350.2 | 392.7 | 435.2 | 423.5 | 411.8 | 364.7 | 317.5 | 278.0 |
| 50° | 202.4 | 221.7 | 265.5 | 309.3 | 347.6 | 385.8 | 376.2 | 366.5 | 327.5 | 288.5 | 254.4 |
| 52.5° | 183.4 | 199.4 | 238.8 | 278.1 | 309.0 | 339.8 | 332.4 | 324.9 | 294.9 | 264.8 | 233.8 |
| 55° | 165.4 | 180.1 | 213.3 | 246.6 | 272.9 | 299.3 | 291.9 | 284.5 | 261.1 | 237.7 | 210.4 |
| 57.5° | 149.1 | 161.9 | 188.8 | 215.8 | 236.7 | 257.7 | 254.2 | 250.7 | 231.2 | 211.7 | 189.2 |
| 60° | 131.8 | 143.3 | 166.6 | 189.8 | 206.7 | 223.6 | 219.5 | 215.4 | 201.5 | 187.5 | 168.2 |
| 62.5° | 116.4 | 126.6 | 145.2 | 163.8 | 177.5 | 191.2 | 188.3 | 185.3 | 174.7 | 164.1 | 148.2 |
| 65° | 100.3 | 110.3 | 125.3 | 140.4 | 151.1 | 161.9 | 159.3 | 156.7 | 148.7 | 140.7 | 127.9 |
| 67.5° | 85.6 | 94.0 | 107.0 | 119.9 | 127.2 | 134.4 | 132.9 | 131.5 | 125.3 | 119.2 | 109.2 |
| 70° | 70.7 | 78.0 | 88.8 | 99.5 | 104.5 | 109.6 | 110.1 | 110.7 | 105.1 | 99.5 | 92.1 |
| 72.5° | 55.9 | 61.6 | 71.7 | 81.7 | 85.6 | 89.5 | 89.3 | 89.1 | 85.8 | 82.4 | 75.8 |
| 75° | 42.9 | 47.2 | 55.0 | 62.8 | 66.1 | 69.4 | 70.2 | 70.9 | 67.8 | 64.6 | 60.9 |
| 77.5° | 30.8 | 33.8 | 39.7 | 45.7 | 49.4 | 53.1 | 53.5 | 53.8 | 52.4 | 50.9 | 47.3 |
| 80° | 21.7 | 22.7 | 26.4 | 30.1 | 34.0 | 37.9 | 38.4 | 39.0 | 37.5 | 36.0 | 33.8 |
| 82.5° | 15.0 | 15.6 | 16.9 | 18.2 | 21.4 | 24.5 | 25.3 | 26.0 | 25.3 | 24.5 | 22.1 |
| 85° | 9.1 | 9.3 | 9.8 | 10.4 | 11.9 | 13.4 | 14.1 | 14.9 | 14.5 | 14.1 | 12.8 |
| 87.5° | 4.1 | 4.1 | 4.3 | 4.5 | 4.8 | 5.2 | 6.1 | 7.1 | 6.5 | 5.9 | 5.4 |
| 90° | 17.3 | 14.5 | 11.8 | 9.4 | 7.3 | 5.2 | 3.1 | 0.9 | 3.1 | 5.2 | 7.3 |
| 92.5° | 37.3 | 36.0 | 34.7 | 33.5 | 32.2 | 30.9 | 29.7 | 28.4 | 29.7 | 30.9 | 32.2 |
| 95° | 66.7 | 65.0 | 63.4 | 61.8 | 60.3 | 58.8 | 57.4 | 55.9 | 57.4 | 58.8 | 60.3 |
| 97.5° | 99.8 | 98.5 | 97.3 | 96.1 | 95.0 | 94.0 | 92.9 | 91.9 | 92.9 | 94.0 | 95.0 |
| 100° | 137.1 | 136.1 | 135.0 | 133.9 | 132.6 | 131.4 | 130.1 | 128.8 | 130.1 | 131.4 | 132.6 |
| 102.5° | 178.0 | 176.5 | 175.0 | 174.0 | 173.4 | 172.7 | 172.1 | 171.5 | 172.1 | 172.7 | 173.4 |
| 105° | 219.8 | 217.9 | 216.0 | 214.8 | 214.4 | 214.0 | 213.6 | 213.1 | 213.6 | 214.0 | 214.4 |
| 107.5° | 265.4 | 264.6 | 263.8 | 263.2 | 263.0 | 262.8 | 262.6 | 262.4 | 262.6 | 262.8 | 263.0 |
| 110° | 310.8 | 310.4 | 310.0 | 309.6 | 309.1 | 308.7 | 308.3 | 307.9 | 308.3 | 308.7 | 309.1 |



TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 356.2 | 356.2 | 356.2 | 356.1 | 355.9 | 355.7 | 355.4 | 355.2 | 355.4 | 355.7 | 355.9 |
| 115° | 404.4 | 404.8 | 405.2 | 405.1 | 404.5 | 403.9 | 403.2 | 402.6 | 403.2 | 403.9 | 404.5 |
| 117.5° | 450.8 | 451.2 | 451.6 | 451.7 | 451.5 | 451.3 | 451.1 | 450.9 | 451.1 | 451.3 | 451.5 |
| 120° | 498.5 | 499.5 | 500.6 | 500.5 | 499.2 | 498.0 | 496.7 | 495.4 | 496.7 | 498.0 | 499.2 |
| 122.5° | 544.6 | 545.0 | 545.4 | 545.2 | 544.4 | 543.5 | 542.7 | 541.8 | 542.7 | 543.5 | 544.4 |
| 125° | 591.0 | 591.4 | 591.8 | 591.7 | 591.1 | 590.5 | 589.8 | 589.2 | 589.8 | 590.5 | 591.1 |
| 127.5° | 637.4 | 637.8 | 638.3 | 637.8 | 636.6 | 635.3 | 634.0 | 632.8 | 634.0 | 635.3 | 636.6 |
| 130° | 682.4 | 683.0 | 683.6 | 683.1 | 681.4 | 679.7 | 678.0 | 676.4 | 678.0 | 679.7 | 681.4 |
| 132.5° | 726.5 | 726.9 | 727.3 | 726.7 | 725.0 | 723.3 | 721.6 | 719.9 | 721.6 | 723.3 | 725.0 |
| 135° | 769.6 | 769.8 | 770.0 | 769.5 | 768.2 | 767.0 | 765.7 | 764.5 | 765.7 | 767.0 | 768.2 |
| 137.5° | 811.5 | 810.9 | 810.2 | 809.4 | 808.3 | 807.3 | 806.2 | 805.2 | 806.2 | 807.3 | 808.3 |
| 140° | 853.1 | 852.9 | 852.7 | 852.0 | 851.0 | 849.9 | 848.9 | 847.8 | 848.9 | 849.9 | 851.0 |
| 142.5° | 892.4 | 892.0 | 891.6 | 890.9 | 889.8 | 888.8 | 887.7 | 886.7 | 887.7 | 888.8 | 889.8 |
| 145° | 930.9 | 930.2 | 929.6 | 929.1 | 928.7 | 928.2 | 927.8 | 927.4 | 927.8 | 928.2 | 928.7 |
| 147.5° | 967.8 | 967.2 | 966.5 | 965.8 | 965.0 | 964.1 | 963.3 | 962.4 | 963.3 | 964.1 | 965.0 |
| 150° | 1002.3 | 1001.9 | 1001.5 | 1001.1 | 1000.6 | 1000.2 | 999.8 | 999.4 | 999.8 | 1000.2 | 1000.6 |
| 152.5° | 1033.1 | 1032.9 | 1032.6 | 1032.2 | 1031.6 | 1031.0 | 1030.3 | 1029.7 | 1030.3 | 1031.0 | 1031.6 |
| 155° | 1062.4 | 1062.2 | 1062.0 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 157.5° | 1089.0 | 1088.7 | 1088.5 | 1088.5 | 1088.7 | 1089.0 | 1089.2 | 1089.4 | 1089.2 | 1089.0 | 1088.7 |
| 160° | 1113.1 | 1113.1 | 1113.1 | 1113.3 | 1113.7 | 1114.1 | 1114.5 | 1114.9 | 1114.5 | 1114.1 | 1113.7 |
| 162.5° | 1135.4 | 1135.2 | 1134.9 | 1135.2 | 1135.8 | 1136.4 | 1137.1 | 1137.7 | 1137.1 | 1136.4 | 1135.8 |
| 165° | 1153.8 | 1153.8 | 1153.8 | 1154.1 | 1154.7 | 1155.4 | 1156.0 | 1156.6 | 1156.0 | 1155.4 | 1154.7 |
| 167.5° | 1169.5 | 1169.3 | 1169.0 | 1169.4 | 1170.2 | 1171.0 | 1171.9 | 1172.7 | 1171.9 | 1171.0 | 1170.2 |
| 170° | 1182.2 | 1182.2 | 1182.2 | 1182.6 | 1183.5 | 1184.3 | 1185.2 | 1186.0 | 1185.2 | 1184.3 | 1183.5 |
| 172.5° | 1192.6 | 1192.6 | 1192.6 | 1193.0 | 1193.9 | 1194.7 | 1195.6 | 1196.4 | 1195.6 | 1194.7 | 1193.9 |
| 175° | 1199.3 | 1199.3 | 1199.3 | 1199.7 | 1200.5 | 1201.4 | 1202.2 | 1203.0 | 1202.2 | 1201.4 | 1200.5 |
| 177.5° | 1203.0 | 1203.0 | 1203.0 | 1203.5 | 1204.3 | 1205.2 | 1206.0 | 1206.8 | 1206.0 | 1205.2 | 1204.3 |
| 180° | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 |



TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 | 905.7 |
| 2.5° | 876.8 | 866.2 | 855.6 | 848.0 | 840.4 | 830.9 | 821.4 | 821.1 | 820.7 | 813.6 | 806.6 |
| 5° | 824.8 | 806.4 | 788.0 | 770.0 | 752.0 | 734.0 | 716.0 | 711.9 | 707.8 | 701.7 | 695.6 |
| 7.5° | 778.7 | 749.4 | 720.1 | 697.0 | 674.0 | 656.0 | 638.0 | 625.7 | 613.5 | 604.0 | 594.5 |
| 10° | 729.3 | 693.0 | 656.6 | 628.7 | 600.9 | 581.4 | 561.9 | 547.8 | 533.6 | 527.0 | 520.3 |
| 12.5° | 678.1 | 638.5 | 599.0 | 571.7 | 544.4 | 521.0 | 497.6 | 484.8 | 472.0 | 462.7 | 453.4 |
| 15° | 630.9 | 588.4 | 545.9 | 516.9 | 488.0 | 466.1 | 444.1 | 431.3 | 418.5 | 409.2 | 400.0 |
| 17.5° | 585.3 | 542.4 | 499.5 | 470.1 | 440.8 | 420.9 | 401.1 | 388.6 | 376.2 | 370.4 | 364.7 |
| 20° | 543.7 | 500.4 | 457.1 | 429.5 | 401.8 | 382.3 | 362.8 | 356.1 | 349.4 | 344.1 | 338.7 |
| 22.5° | 502.4 | 460.9 | 419.3 | 392.7 | 366.2 | 352.0 | 337.9 | 332.5 | 327.2 | 323.1 | 319.0 |
| 25° | 467.9 | 426.5 | 385.1 | 361.9 | 338.7 | 327.7 | 316.8 | 313.2 | 309.7 | 305.6 | 301.5 |
| 27.5° | 433.0 | 393.6 | 354.3 | 335.7 | 317.1 | 308.2 | 299.3 | 294.9 | 290.4 | 287.1 | 283.7 |
| 30° | 402.2 | 365.8 | 329.4 | 314.0 | 298.6 | 290.8 | 283.0 | 278.1 | 273.3 | 270.2 | 267.0 |
| 32.5° | 372.5 | 340.2 | 307.9 | 294.7 | 281.5 | 273.9 | 266.3 | 261.6 | 257.0 | 253.3 | 249.6 |
| 35° | 345.0 | 317.0 | 288.9 | 276.8 | 264.8 | 257.2 | 249.6 | 244.9 | 240.3 | 236.6 | 232.8 |
| 37.5° | 320.9 | 295.4 | 270.0 | 258.6 | 247.3 | 240.6 | 234.0 | 229.1 | 224.3 | 220.4 | 216.5 |
| 40° | 298.2 | 275.7 | 253.3 | 242.3 | 231.4 | 224.1 | 216.9 | 212.6 | 208.3 | 204.8 | 201.3 |
| 42.5° | 278.1 | 257.5 | 236.9 | 226.2 | 215.4 | 208.5 | 201.6 | 196.6 | 191.6 | 189.6 | 187.5 |
| 45° | 257.0 | 238.8 | 220.6 | 210.2 | 199.8 | 192.5 | 185.3 | 181.0 | 176.8 | 174.9 | 173.1 |
| 47.5° | 238.4 | 221.5 | 204.6 | 194.4 | 184.2 | 177.7 | 171.2 | 167.9 | 164.5 | 161.9 | 159.3 |
| 50° | 220.2 | 203.9 | 187.5 | 177.7 | 167.9 | 162.3 | 156.7 | 152.6 | 148.5 | 146.7 | 144.8 |
| 52.5° | 202.8 | 187.9 | 173.1 | 163.0 | 153.0 | 147.6 | 142.2 | 138.7 | 135.2 | 131.3 | 127.4 |
| 55° | 183.1 | 170.1 | 157.1 | 148.2 | 139.3 | 133.7 | 128.1 | 124.0 | 119.9 | 115.9 | 111.8 |
| 57.5° | 166.7 | 153.9 | 141.1 | 133.1 | 125.1 | 119.8 | 114.4 | 109.9 | 105.5 | 102.1 | 98.8 |
| 60° | 148.9 | 137.8 | 126.6 | 118.8 | 111.0 | 105.8 | 100.6 | 96.4 | 92.1 | 90.4 | 88.8 |
| 62.5° | 132.2 | 121.8 | 111.4 | 104.5 | 97.7 | 92.7 | 87.6 | 84.9 | 82.1 | 81.0 | 79.8 |
| 65° | 115.1 | 106.2 | 97.3 | 91.0 | 84.7 | 80.4 | 76.1 | 74.8 | 73.5 | 72.6 | 71.7 |
| 67.5° | 99.2 | 91.5 | 83.9 | 78.4 | 72.8 | 69.8 | 66.8 | 65.4 | 63.9 | 62.8 | 61.6 |
| 70° | 84.7 | 78.0 | 71.3 | 66.5 | 61.6 | 58.9 | 56.1 | 54.8 | 53.5 | 51.4 | 49.4 |
| 72.5° | 69.1 | 63.9 | 58.7 | 55.0 | 51.2 | 48.8 | 46.4 | 43.8 | 41.2 | 39.4 | 37.5 |
| 75° | 57.2 | 52.0 | 46.8 | 43.3 | 39.7 | 36.9 | 34.2 | 33.2 | 32.3 | 31.8 | 31.2 |
| 77.5° | 43.8 | 39.4 | 34.9 | 32.1 | 29.3 | 28.0 | 26.7 | 26.2 | 25.6 | 25.4 | 25.3 |
| 80° | 31.6 | 27.9 | 24.1 | 22.7 | 21.2 | 20.8 | 20.4 | 20.1 | 19.7 | 19.5 | 19.3 |
| 82.5° | 19.7 | 17.8 | 16.0 | 15.6 | 15.2 | 15.0 | 14.9 | 14.7 | 14.5 | 14.3 | 14.1 |
| 85° | 11.5 | 10.8 | 10.0 | 9.8 | 9.7 | 9.5 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 |
| 87.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.5 |
| 90° | 9.4 | 11.8 | 14.5 | 17.3 | 20.0 | 22.7 | 23.6 | 24.4 | 25.3 | 26.1 | 26.7 |
| 92.5° | 33.5 | 34.7 | 36.0 | 37.3 | 38.5 | 39.8 | 40.4 | 41.0 | 41.7 | 42.3 | 42.4 |
| 95° | 61.8 | 63.4 | 65.0 | 66.7 | 68.4 | 70.1 | 70.9 | 71.8 | 72.6 | 73.5 | 73.9 |
| 97.5° | 96.1 | 97.3 | 98.5 | 99.8 | 101.0 | 102.3 | 103.4 | 104.4 | 105.5 | 106.5 | 106.9 |
| 100° | 133.9 | 135.0 | 136.1 | 137.1 | 138.2 | 139.3 | 139.9 | 140.5 | 141.1 | 141.8 | 142.3 |
| 102.5° | 174.0 | 175.0 | 176.5 | 178.0 | 179.5 | 180.9 | 181.6 | 182.2 | 182.8 | 183.5 | 183.7 |
| 105° | 214.8 | 216.0 | 217.9 | 219.8 | 221.7 | 223.6 | 223.6 | 223.6 | 223.6 | 223.6 | 223.8 |
| 107.5° | 263.2 | 263.8 | 264.6 | 265.4 | 266.3 | 267.1 | 267.8 | 268.4 | 269.0 | 269.7 | 269.9 |
| 110° | 309.6 | 310.0 | 310.4 | 310.8 | 311.2 | 311.7 | 312.5 | 313.3 | 314.2 | 315.0 | 315.2 |



TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 356.1 | 356.2 | 356.2 | 356.2 | 356.2 | 356.2 | 357.2 | 358.3 | 359.3 | 360.4 | 360.9 |
| 115° | 405.1 | 405.2 | 404.8 | 404.4 | 404.0 | 403.5 | 403.8 | 404.0 | 404.2 | 404.4 | 404.4 |
| 117.5° | 451.7 | 451.6 | 451.2 | 450.8 | 450.4 | 450.0 | 450.0 | 450.0 | 450.0 | 450.0 | 449.6 |
| 120° | 500.5 | 500.6 | 499.5 | 498.5 | 497.4 | 496.4 | 496.2 | 496.0 | 495.7 | 495.5 | 495.2 |
| 122.5° | 545.2 | 545.4 | 545.0 | 544.6 | 544.2 | 543.7 | 543.1 | 542.5 | 541.8 | 541.2 | 540.6 |
| 125° | 591.7 | 591.8 | 591.4 | 591.0 | 590.6 | 590.2 | 589.3 | 588.5 | 587.6 | 586.8 | 585.9 |
| 127.5° | 637.8 | 638.3 | 637.8 | 637.4 | 637.0 | 636.6 | 635.3 | 634.0 | 632.8 | 631.5 | 630.5 |
| 130° | 683.1 | 683.6 | 683.0 | 682.4 | 681.7 | 681.1 | 680.3 | 679.4 | 678.6 | 677.7 | 676.6 |
| 132.5° | 726.7 | 727.3 | 726.9 | 726.5 | 726.0 | 725.6 | 724.6 | 723.5 | 722.5 | 721.4 | 720.4 |
| 135° | 769.5 | 770.0 | 769.8 | 769.6 | 769.4 | 769.2 | 768.3 | 767.5 | 766.7 | 765.8 | 765.2 |
| 137.5° | 809.4 | 810.2 | 810.9 | 811.5 | 812.1 | 812.8 | 811.7 | 810.7 | 809.6 | 808.6 | 807.7 |
| 140° | 852.0 | 852.7 | 852.9 | 853.1 | 853.3 | 853.5 | 853.3 | 853.1 | 852.9 | 852.7 | 851.8 |
| 142.5° | 890.9 | 891.6 | 892.0 | 892.4 | 892.9 | 893.3 | 893.1 | 892.9 | 892.7 | 892.4 | 891.8 |
| 145° | 929.1 | 929.6 | 930.2 | 930.9 | 931.5 | 932.1 | 931.9 | 931.7 | 931.5 | 931.3 | 930.8 |
| 147.5° | 965.8 | 966.5 | 967.2 | 967.8 | 968.4 | 969.1 | 969.1 | 969.1 | 969.1 | 969.1 | 968.4 |
| 150° | 1001.1 | 1001.5 | 1001.9 | 1002.3 | 1002.7 | 1003.2 | 1003.2 | 1003.2 | 1003.2 | 1003.2 | 1002.5 |
| 152.5° | 1032.2 | 1032.6 | 1032.9 | 1033.1 | 1033.3 | 1033.5 | 1033.9 | 1034.3 | 1034.7 | 1035.2 | 1034.9 |
| 155° | 1061.9 | 1062.0 | 1062.2 | 1062.4 | 1062.6 | 1062.8 | 1063.7 | 1064.5 | 1065.4 | 1066.2 | 1065.9 |
| 157.5° | 1088.5 | 1088.5 | 1088.7 | 1089.0 | 1089.2 | 1089.4 | 1090.2 | 1091.1 | 1091.9 | 1092.7 | 1092.5 |
| 160° | 1113.3 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1114.1 | 1115.2 | 1116.2 | 1117.3 | 1117.4 |
| 162.5° | 1135.2 | 1134.9 | 1135.2 | 1135.4 | 1135.6 | 1135.8 | 1136.8 | 1137.9 | 1138.9 | 1140.0 | 1139.8 |
| 165° | 1154.1 | 1153.8 | 1153.8 | 1153.8 | 1153.8 | 1153.8 | 1155.1 | 1156.3 | 1157.6 | 1158.8 | 1158.7 |
| 167.5° | 1169.4 | 1169.0 | 1169.3 | 1169.5 | 1169.7 | 1169.9 | 1171.2 | 1172.4 | 1173.7 | 1174.9 | 1174.9 |
| 170° | 1182.6 | 1182.2 | 1182.2 | 1182.2 | 1182.2 | 1182.2 | 1183.7 | 1185.2 | 1186.6 | 1188.1 | 1188.1 |
| 172.5° | 1193.0 | 1192.6 | 1192.6 | 1192.6 | 1192.6 | 1192.6 | 1193.9 | 1195.2 | 1196.4 | 1197.7 | 1197.6 |
| 175° | 1199.7 | 1199.3 | 1199.3 | 1199.3 | 1199.3 | 1199.3 | 1200.5 | 1201.8 | 1203.0 | 1204.3 | 1204.2 |
| 177.5° | 1203.5 | 1203.0 | 1203.0 | 1203.0 | 1203.0 | 1203.0 | 1204.3 | 1205.6 | 1206.8 | 1208.1 | 1208.0 |
| 180° | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 | 1205.9 |



TEST NUMBER: P832078

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 0° | 905.7 | 905.7 | 905.7 | 905.7 |
| 2.5° | 804.7 | 802.9 | 802.1 | 801.4 |
| 5° | 689.8 | 684.0 | 682.7 | 681.4 |
| 7.5° | 592.1 | 589.7 | 581.7 | 573.7 |
| 10° | 512.8 | 505.4 | 502.1 | 498.7 |
| 12.5° | 446.6 | 439.7 | 438.6 | 437.5 |
| 15° | 395.1 | 390.3 | 388.6 | 387.0 |
| 17.5° | 361.3 | 358.0 | 355.9 | 353.9 |
| 20° | 336.3 | 333.8 | 332.4 | 330.9 |
| 22.5° | 317.1 | 315.3 | 314.2 | 313.1 |
| 25° | 298.8 | 296.0 | 295.0 | 294.1 |
| 27.5° | 281.3 | 278.9 | 278.0 | 277.0 |
| 30° | 265.0 | 262.9 | 261.6 | 260.3 |
| 32.5° | 247.1 | 244.7 | 244.0 | 243.2 |
| 35° | 231.4 | 229.9 | 229.1 | 228.4 |
| 37.5° | 214.6 | 212.8 | 211.7 | 210.6 |
| 40° | 200.3 | 199.4 | 198.9 | 198.3 |
| 42.5° | 185.9 | 184.2 | 184.0 | 183.8 |
| 45° | 171.4 | 169.7 | 169.3 | 169.0 |
| 47.5° | 157.8 | 156.3 | 156.2 | 156.0 |
| 50° | 142.8 | 140.7 | 139.3 | 137.8 |
| 52.5° | 125.5 | 123.7 | 122.4 | 121.1 |
| 55° | 109.7 | 107.7 | 106.6 | 105.5 |
| 57.5° | 97.9 | 96.9 | 96.4 | 95.8 |
| 60° | 88.2 | 87.6 | 87.3 | 86.9 |
| 62.5° | 79.3 | 78.7 | 78.7 | 78.7 |
| 65° | 71.1 | 70.6 | 70.0 | 69.4 |
| 67.5° | 60.5 | 59.4 | 59.2 | 59.0 |
| 70° | 47.7 | 46.0 | 45.9 | 45.7 |
| 72.5° | 37.3 | 37.1 | 36.8 | 36.4 |
| 75° | 30.8 | 30.5 | 30.5 | 30.5 |
| 77.5° | 24.9 | 24.5 | 24.5 | 24.5 |
| 80° | 19.1 | 18.9 | 19.1 | 19.3 |
| 82.5° | 14.1 | 14.1 | 13.9 | 13.7 |
| 85° | 9.1 | 8.9 | 8.9 | 8.9 |
| 87.5° | 4.5 | 4.5 | 4.5 | 4.5 |
| 90° | 27.2 | 27.6 | 28.0 | 28.4 |
| 92.5° | 42.0 | 41.6 | 41.2 | 40.7 |
| 95° | 73.9 | 73.9 | 73.9 | 73.9 |
| 97.5° | 106.7 | 106.5 | 106.3 | 106.1 |
| 100° | 142.7 | 143.1 | 143.6 | 144.0 |
| 102.5° | 183.5 | 183.2 | 183.0 | 182.8 |
| 105° | 224.2 | 224.6 | 225.0 | 225.5 |
| 107.5° | 269.7 | 269.4 | 269.2 | 269.0 |
| 110° | 314.8 | 314.4 | 314.0 | 313.5 |



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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 360.9 | 360.9 | 360.9 | 360.9 |
| 115° | 404.2 | 404.0 | 403.8 | 403.5 |
| 117.5° | 449.0 | 448.4 | 447.7 | 447.1 |
| 120° | 494.8 | 494.4 | 494.0 | 493.5 |
| 122.5° | 539.9 | 539.3 | 538.7 | 538.1 |
| 125° | 585.1 | 584.3 | 583.4 | 582.6 |
| 127.5° | 629.6 | 628.8 | 627.9 | 627.1 |
| 130° | 675.1 | 673.6 | 672.1 | 670.7 |
| 132.5° | 719.3 | 718.2 | 717.2 | 716.1 |
| 135° | 764.8 | 764.3 | 763.9 | 763.5 |
| 137.5° | 807.1 | 806.5 | 805.8 | 805.2 |
| 140° | 850.3 | 848.9 | 847.4 | 845.9 |
| 142.5° | 890.8 | 889.7 | 888.7 | 887.6 |
| 145° | 929.9 | 929.1 | 928.2 | 927.4 |
| 147.5° | 967.2 | 965.9 | 964.6 | 963.4 |
| 150° | 1001.3 | 1000.0 | 998.7 | 997.5 |
| 152.5° | 1033.8 | 1032.7 | 1031.7 | 1030.6 |
| 155° | 1064.4 | 1063.0 | 1061.5 | 1060.0 |
| 157.5° | 1091.3 | 1090.0 | 1088.7 | 1087.5 |
| 160° | 1116.5 | 1115.7 | 1114.8 | 1114.0 |
| 162.5° | 1138.3 | 1136.8 | 1135.4 | 1133.9 |
| 165° | 1157.3 | 1155.8 | 1154.3 | 1152.8 |
| 167.5° | 1173.7 | 1172.4 | 1171.2 | 1169.9 |
| 170° | 1186.6 | 1185.2 | 1183.7 | 1182.2 |
| 172.5° | 1196.1 | 1194.6 | 1193.2 | 1191.7 |
| 175° | 1202.7 | 1201.3 | 1199.8 | 1198.3 |
| 177.5° | 1206.5 | 1205.0 | 1203.6 | 1202.1 |
| 180° | 1205.9 | 1205.9 | 1205.9 | 1205.9 |



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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 | 5.90 | 6.56 | 7.04 | 7.69 | 9.26 | 10.56 | 11.22 | 11.71 | 12.35 | 13.93 |
| | 3H | 7.11 | 7.70 | 8.26 | 8.83 | 10.42 | 12.05 | 12.64 | 13.20 | 13.78 | 15.37 |
| | 4H | 7.48 | 8.04 | 8.64 | 9.18 | 10.77 | 12.53 | 13.09 | 13.69 | 14.23 | 15.82 |
| | 6H | 7.76 | 8.27 | 8.92 | 9.41 | 11.01 | 12.84 | 13.35 | 14.00 | 14.49 | 16.09 |
| | 8H | 7.84 | 8.33 | 9.01 | 9.48 | 11.08 | 12.91 | 13.40 | 14.08 | 14.55 | 16.15 |
| | 12H | 7.89 | 8.35 | 9.06 | 9.50 | 11.12 | 12.94 | 13.40 | 14.11 | 14.55 | 16.17 |
| 4H | 2H | 6.60 | 7.16 | 7.77 | 8.30 | 9.89 | 10.54 | 11.10 | 11.71 | 12.23 | 13.83 |
| | 3H | 7.96 | 8.42 | 9.13 | 9.58 | 11.19 | 12.18 | 12.65 | 13.35 | 13.81 | 15.42 |
| | 4H | 8.41 | 8.83 | 9.58 | 9.99 | 11.61 | 12.78 | 13.21 | 13.96 | 14.36 | 15.99 |
| | 6H | 8.77 | 9.13 | 9.94 | 10.30 | 11.92 | 13.21 | 13.58 | 14.39 | 14.75 | 16.37 |
| | 8H | 8.89 | 9.23 | 10.06 | 10.39 | 12.03 | 13.34 | 13.68 | 14.52 | 14.85 | 16.48 |
| | 12H | 8.96 | 9.27 | 10.15 | 10.44 | 12.08 | 13.39 | 13.70 | 14.59 | 14.88 | 16.52 |
| 8H | 4H | 8.71 | 9.05 | 9.89 | 10.21 | 11.85 | 12.74 | 13.08 | 13.91 | 14.24 | 15.88 |
| | 6H | 9.17 | 9.45 | 10.36 | 10.65 | 12.28 | 13.23 | 13.51 | 14.42 | 14.72 | 16.35 |
| | 8H | 9.36 | 9.60 | 10.56 | 10.79 | 12.44 | 13.41 | 13.66 | 14.62 | 14.84 | 16.49 |
| | 12H | 9.50 | 9.71 | 10.70 | 10.89 | 12.57 | 13.52 | 13.74 | 14.73 | 14.92 | 16.60 |
| 12H | 4H | 8.71 | 9.02 | 9.90 | 10.20 | 11.83 | 12.68 | 12.99 | 13.87 | 14.16 | 15.80 |
| | 6H | 9.23 | 9.47 | 10.43 | 10.65 | 12.30 | 13.20 | 13.45 | 14.40 | 14.63 | 16.28 |
| | 8H | 9.44 | 9.65 | 10.64 | 10.83 | 12.51 | 13.39 | 13.60 | 14.59 | 14.79 | 16.47 |