

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: P832038

Luminaire Tested: S123RDIP-S340D1025U835-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832038
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-S340D1025U835-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

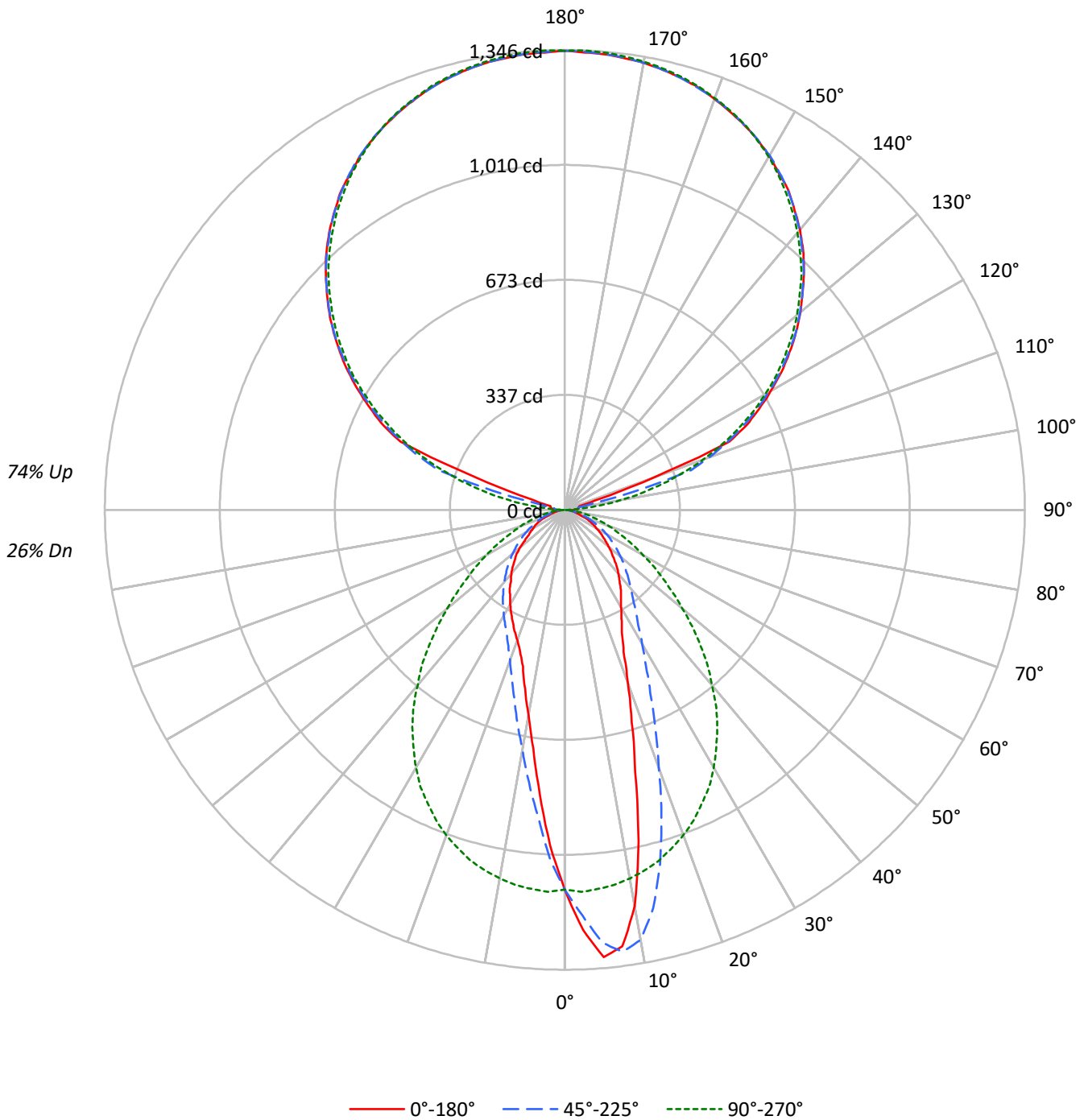
Lumens per Lamp: N/A
Luminaire Lumens: 5571.2 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

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: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-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 | 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 | 37 | 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° | 11958 | 11958 | 11958 | 11958 | 11958 |
| 5° | 14199 | 13746 | 12034 | 9728 | 9031 |
| 10° | 12865 | 13962 | 11973 | 7794 | 6686 |
| 15° | 8857 | 11972 | 11847 | 6370 | 5289 |
| 20° | 6161 | 9216 | 11609 | 5371 | 4648 |
| 25° | 4696 | 7024 | 11263 | 4774 | 4284 |
| 30° | 4088 | 5615 | 10829 | 4432 | 3969 |
| 35° | 3753 | 4737 | 10217 | 4144 | 3681 |
| 40° | 3424 | 4231 | 9414 | 3863 | 3417 |
| 45° | 3092 | 3870 | 8549 | 3596 | 3154 |
| 50° | 2807 | 3570 | 7529 | 3332 | 2830 |
| 55° | 2539 | 3278 | 6548 | 3078 | 2428 |
| 60° | 2275 | 2982 | 5688 | 2794 | 2295 |
| 65° | 2099 | 2646 | 4895 | 2511 | 2170 |
| 70° | 1706 | 2285 | 4271 | 2272 | 1762 |
| 75° | 1497 | 1817 | 3618 | 1884 | 1551 |
| 80° | 1358 | 1537 | 2963 | 1581 | 1469 |
| 85° | 1235 | 1346 | 2248 | 1433 | 1346 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 9021 cd/sqm



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.3 | 1.8 |
| 10°-20° | 234.3 | 4.2 |
| 20°-30° | 268.8 | 4.8 |
| 30°-40° | 265.0 | 4.8 |
| 40°-50° | 233.7 | 4.2 |
| 50°-60° | 179.8 | 3.2 |
| 60°-70° | 118.2 | 2.1 |
| 70°-80° | 57.4 | 1.0 |
| 80°-90° | 17.2 | 0.3 |
| 90°-100° | 47.4 | 0.9 |
| 100°-110° | 229.0 | 4.1 |
| 110°-120° | 561.3 | 10.1 |
| 120°-130° | 712.6 | 12.8 |
| 130°-140° | 761.2 | 13.7 |
| 140°-150° | 711.8 | 12.8 |
| 150°-160° | 574.2 | 10.3 |
| 160°-170° | 370.5 | 6.7 |
| 170°-180° | 127.7 | 2.3 |
| 0°-30° | 604.4 | 10.8 |
| 0°-40° | 869.4 | 15.6 |
| 0°-60° | 1282.9 | 23.0 |
| 0°-90° | 1475.6 | 26.5 |
| 90°-120° | 837.6 | 15.0 |
| 90°-150° | 3023.2 | 54.3 |
| 90°-180° | 4096.0 | 73.5 |
| 0°-180° | 5571.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1111 | 1111 | 1111 | 1111 | 1111 | |
| 5° | 1314 | 1272 | 1114 | 900 | 836 | 120 |
| 15° | 795 | 1074 | 1063 | 572 | 475 | 224 |
| 25° | 395 | 591 | 948 | 402 | 361 | 187 |
| 35° | 286 | 360 | 778 | 315 | 280 | 178 |
| 45° | 203 | 254 | 562 | 236 | 207 | 158 |
| 55° | 135 | 175 | 349 | 164 | 129 | 121 |
| 65° | 82 | 104 | 192 | 99 | 85 | 81 |
| 75° | 36 | 44 | 87 | 45 | 37 | 39 |
| 85° | 10 | 11 | 18 | 12 | 11 | 11 |
| 90° | 30 | 24 | 1 | 24 | 30 | 13 |
| 95° | 38 | 31 | 61 | 31 | 38 | 32 |
| 105° | 44 | 219 | 297 | 219 | 44 | 91 |
| 115° | 587 | 573 | 558 | 573 | 587 | 552 |
| 125° | 802 | 798 | 786 | 798 | 802 | 717 |
| 135° | 989 | 989 | 979 | 989 | 989 | 763 |
| 145° | 1141 | 1139 | 1130 | 1139 | 1141 | 712 |
| 155° | 1243 | 1244 | 1245 | 1244 | 1243 | 573 |
| 165° | 1310 | 1309 | 1313 | 1309 | 1310 | 370 |
| 175° | 1338 | 1340 | 1344 | 1340 | 1338 | 127 |
| 180° | 1344 | 1344 | 1344 | 1344 | 1344 | |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 |
| 2.5° | 1231.2 | 1227.3 | 1223.4 | 1222.3 | 1221.2 | 1217.5 | 1213.9 | 1205.7 | 1197.5 | 1189.0 | 1180.6 |
| 5° | 1314.1 | 1314.5 | 1315.0 | 1313.8 | 1312.7 | 1307.9 | 1303.1 | 1293.1 | 1283.1 | 1272.2 | 1261.2 |
| 7.5° | 1288.6 | 1295.9 | 1303.1 | 1304.5 | 1305.9 | 1309.5 | 1313.2 | 1310.9 | 1308.6 | 1304.5 | 1300.4 |
| 10° | 1177.0 | 1176.5 | 1176.1 | 1184.3 | 1192.5 | 1216.8 | 1241.2 | 1253.7 | 1266.2 | 1277.4 | 1288.6 |
| 12.5° | 994.8 | 995.5 | 996.1 | 1023.0 | 1049.9 | 1072.9 | 1095.9 | 1127.8 | 1159.7 | 1194.1 | 1228.4 |
| 15° | 794.8 | 806.0 | 817.1 | 841.1 | 865.0 | 899.6 | 934.2 | 977.0 | 1019.8 | 1074.3 | 1128.7 |
| 17.5° | 652.7 | 657.5 | 662.3 | 685.3 | 708.3 | 741.1 | 773.9 | 822.4 | 870.9 | 941.0 | 1011.2 |
| 20° | 537.9 | 542.3 | 546.6 | 563.2 | 579.8 | 611.3 | 642.7 | 688.9 | 735.2 | 804.6 | 874.1 |
| 22.5° | 449.1 | 457.5 | 466.0 | 477.1 | 488.3 | 511.1 | 533.8 | 581.0 | 628.1 | 691.4 | 754.7 |
| 25° | 395.4 | 399.2 | 403.1 | 412.7 | 422.2 | 444.1 | 466.0 | 497.2 | 528.4 | 591.4 | 654.5 |
| 27.5° | 358.9 | 360.1 | 361.2 | 368.3 | 375.3 | 389.4 | 403.6 | 432.5 | 461.4 | 513.3 | 565.3 |
| 30° | 328.9 | 330.9 | 333.0 | 338.4 | 343.9 | 354.1 | 364.4 | 384.9 | 405.4 | 451.8 | 498.3 |
| 32.5° | 305.6 | 306.8 | 307.9 | 312.5 | 317.0 | 324.5 | 332.0 | 348.2 | 364.4 | 399.9 | 435.4 |
| 35° | 285.6 | 285.8 | 286.0 | 289.5 | 292.9 | 300.2 | 307.5 | 320.9 | 334.3 | 360.5 | 386.7 |
| 37.5° | 262.8 | 264.4 | 266.0 | 268.5 | 271.0 | 277.4 | 283.8 | 294.7 | 305.6 | 327.3 | 348.9 |
| 40° | 243.7 | 245.1 | 246.4 | 249.4 | 252.3 | 257.3 | 262.4 | 272.4 | 282.4 | 301.1 | 319.8 |
| 42.5° | 224.6 | 225.5 | 226.4 | 229.3 | 232.3 | 238.4 | 244.6 | 252.6 | 260.5 | 276.0 | 291.5 |
| 45° | 203.1 | 205.4 | 207.7 | 210.9 | 214.1 | 219.3 | 224.6 | 232.8 | 241.0 | 254.2 | 267.4 |
| 47.5° | 185.4 | 186.5 | 187.7 | 190.4 | 193.1 | 199.5 | 205.9 | 213.2 | 220.5 | 232.8 | 245.1 |
| 50° | 167.6 | 168.1 | 168.5 | 171.0 | 173.5 | 179.2 | 184.9 | 193.4 | 201.8 | 213.2 | 224.6 |
| 52.5° | 150.8 | 151.9 | 153.0 | 155.5 | 158.1 | 161.9 | 165.8 | 174.5 | 183.1 | 194.3 | 205.4 |
| 55° | 135.3 | 136.0 | 136.6 | 138.5 | 140.3 | 144.8 | 149.4 | 156.9 | 164.4 | 174.7 | 184.9 |
| 57.5° | 120.7 | 121.6 | 122.5 | 123.9 | 125.3 | 129.4 | 133.5 | 140.1 | 146.7 | 156.9 | 167.2 |
| 60° | 105.7 | 106.8 | 107.9 | 109.5 | 111.1 | 114.3 | 117.5 | 123.4 | 129.4 | 138.5 | 147.6 |
| 62.5° | 94.7 | 95.0 | 95.2 | 96.6 | 97.9 | 100.2 | 102.5 | 107.3 | 112.0 | 121.2 | 130.3 |
| 65° | 82.4 | 83.1 | 83.8 | 84.5 | 85.2 | 87.0 | 88.8 | 92.9 | 97.0 | 103.9 | 110.7 |
| 67.5° | 69.7 | 70.4 | 71.1 | 72.2 | 73.3 | 74.9 | 76.5 | 79.3 | 82.0 | 88.4 | 94.7 |
| 70° | 54.2 | 54.2 | 54.2 | 56.0 | 57.8 | 60.6 | 63.3 | 65.4 | 67.4 | 72.6 | 77.9 |
| 72.5° | 44.2 | 44.4 | 44.6 | 44.9 | 45.1 | 46.7 | 48.3 | 51.7 | 55.1 | 58.3 | 61.5 |
| 75° | 36.0 | 36.2 | 36.4 | 36.7 | 36.9 | 37.3 | 37.8 | 38.9 | 40.1 | 43.7 | 47.4 |
| 77.5° | 28.7 | 28.9 | 29.2 | 29.4 | 29.6 | 30.1 | 30.5 | 31.0 | 31.4 | 32.8 | 34.2 |
| 80° | 21.9 | 22.1 | 22.3 | 22.5 | 22.8 | 23.0 | 23.2 | 23.7 | 24.1 | 24.8 | 25.5 |
| 82.5° | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 16.4 | 16.9 | 16.9 | 16.9 | 17.3 | 17.8 |
| 85° | 10.0 | 10.0 | 10.0 | 10.2 | 10.5 | 10.5 | 10.5 | 10.7 | 10.9 | 10.9 | 10.9 |
| 87.5° | 4.6 | 4.3 | 4.1 | 4.3 | 4.6 | 4.6 | 4.6 | 4.8 | 5.0 | 5.0 | 5.0 |
| 90° | 29.9 | 29.5 | 29.1 | 28.6 | 28.2 | 27.5 | 26.6 | 25.7 | 24.8 | 24.0 | 21.1 |
| 92.5° | 33.9 | 33.7 | 33.5 | 33.3 | 33.0 | 32.2 | 30.6 | 29.1 | 27.5 | 26.0 | 24.0 |
| 95° | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.2 | 35.6 | 34.0 | 32.5 | 30.9 | 28.5 |
| 97.5° | 40.9 | 40.7 | 40.5 | 40.3 | 40.0 | 39.0 | 37.3 | 35.5 | 33.7 | 31.9 | 43.3 |
| 100° | 41.9 | 41.7 | 41.5 | 41.3 | 41.0 | 40.0 | 38.3 | 36.5 | 34.7 | 32.9 | 67.5 |
| 102.5° | 42.9 | 42.5 | 42.0 | 41.6 | 41.1 | 44.6 | 51.9 | 59.2 | 66.5 | 73.9 | 112.5 |
| 105° | 43.9 | 43.5 | 43.0 | 42.6 | 42.1 | 61.6 | 100.8 | 140.1 | 179.3 | 218.6 | 238.6 |
| 107.5° | 103.8 | 132.9 | 161.9 | 191.0 | 220.0 | 251.6 | 285.8 | 320.0 | 354.1 | 388.3 | 385.0 |
| 110° | 274.5 | 306.2 | 337.9 | 369.6 | 401.4 | 420.9 | 428.2 | 435.5 | 442.8 | 450.2 | 447.7 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 520.0 | 520.5 | 520.9 | 521.4 | 521.8 | 521.0 | 519.0 | 517.0 | 515.0 | 513.0 | 510.6 |
| 115° | 586.9 | 586.0 | 585.1 | 584.2 | 583.4 | 581.8 | 579.6 | 577.4 | 575.2 | 572.9 | 570.9 |
| 117.5° | 640.8 | 640.6 | 640.4 | 640.1 | 639.9 | 638.9 | 637.2 | 635.4 | 633.6 | 631.8 | 630.7 |
| 120° | 696.7 | 696.7 | 696.7 | 696.7 | 696.7 | 695.8 | 694.0 | 692.3 | 690.5 | 688.7 | 688.1 |
| 122.5° | 751.6 | 751.4 | 751.2 | 750.9 | 750.7 | 750.1 | 748.9 | 747.8 | 746.7 | 745.6 | 744.7 |
| 125° | 802.5 | 802.1 | 801.6 | 801.2 | 800.7 | 800.3 | 799.8 | 799.4 | 799.0 | 798.5 | 797.6 |
| 127.5° | 852.4 | 852.9 | 853.3 | 853.7 | 854.2 | 854.1 | 853.4 | 852.8 | 852.1 | 851.4 | 850.3 |
| 130° | 900.3 | 900.8 | 901.2 | 901.7 | 902.1 | 901.9 | 901.0 | 900.1 | 899.2 | 898.3 | 897.4 |
| 132.5° | 944.2 | 944.9 | 945.6 | 946.2 | 946.9 | 946.8 | 945.9 | 945.0 | 944.1 | 943.2 | 942.6 |
| 135° | 989.2 | 989.8 | 990.5 | 991.2 | 991.8 | 991.8 | 991.2 | 990.5 | 989.8 | 989.2 | 988.3 |
| 137.5° | 1032.1 | 1032.5 | 1033.0 | 1033.4 | 1033.9 | 1033.5 | 1032.4 | 1031.3 | 1030.2 | 1029.1 | 1028.6 |
| 140° | 1070.0 | 1070.5 | 1070.9 | 1071.3 | 1071.8 | 1071.6 | 1070.7 | 1069.8 | 1068.9 | 1068.0 | 1067.4 |
| 142.5° | 1104.9 | 1105.6 | 1106.3 | 1106.9 | 1107.6 | 1107.6 | 1106.9 | 1106.3 | 1105.6 | 1104.9 | 1104.3 |
| 145° | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.7 | 1140.2 | 1139.8 | 1139.3 | 1138.9 | 1138.4 |
| 147.5° | 1166.8 | 1167.9 | 1169.1 | 1170.2 | 1171.3 | 1171.6 | 1171.2 | 1170.7 | 1170.3 | 1169.8 | 1169.4 |
| 150° | 1196.8 | 1197.4 | 1198.1 | 1198.8 | 1199.4 | 1199.6 | 1199.1 | 1198.7 | 1198.2 | 1197.8 | 1197.3 |
| 152.5° | 1220.7 | 1221.8 | 1223.0 | 1224.1 | 1225.2 | 1225.3 | 1224.4 | 1223.5 | 1222.6 | 1221.7 | 1221.5 |
| 155° | 1242.7 | 1244.0 | 1245.4 | 1246.7 | 1248.0 | 1248.1 | 1247.0 | 1245.9 | 1244.8 | 1243.7 | 1243.5 |
| 157.5° | 1261.7 | 1263.4 | 1265.2 | 1267.0 | 1268.8 | 1269.0 | 1267.6 | 1266.3 | 1265.0 | 1263.7 | 1263.9 |
| 160° | 1279.6 | 1281.2 | 1282.7 | 1284.3 | 1285.8 | 1285.9 | 1284.6 | 1283.3 | 1282.0 | 1280.6 | 1280.8 |
| 162.5° | 1296.6 | 1297.9 | 1299.3 | 1300.6 | 1301.9 | 1301.8 | 1300.3 | 1298.7 | 1297.1 | 1295.6 | 1295.8 |
| 165° | 1309.6 | 1311.1 | 1312.7 | 1314.2 | 1315.8 | 1315.7 | 1313.9 | 1312.1 | 1310.3 | 1308.6 | 1308.8 |
| 167.5° | 1319.6 | 1321.3 | 1323.1 | 1324.9 | 1326.6 | 1326.6 | 1324.9 | 1323.1 | 1321.3 | 1319.6 | 1319.6 |
| 170° | 1328.5 | 1330.3 | 1332.1 | 1333.9 | 1335.6 | 1335.6 | 1333.9 | 1332.1 | 1330.3 | 1328.5 | 1328.5 |
| 172.5° | 1333.5 | 1335.5 | 1337.5 | 1339.5 | 1341.5 | 1341.6 | 1339.8 | 1338.1 | 1336.3 | 1334.5 | 1334.3 |
| 175° | 1338.5 | 1340.3 | 1342.1 | 1343.8 | 1345.6 | 1345.7 | 1344.2 | 1342.6 | 1341.1 | 1339.5 | 1339.3 |
| 177.5° | 1339.5 | 1341.7 | 1343.9 | 1346.2 | 1348.4 | 1348.6 | 1346.8 | 1345.1 | 1343.3 | 1341.5 | 1341.3 |
| 180° | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 |
| 2.5° | 1179.5 | 1178.3 | 1167.4 | 1156.5 | 1145.8 | 1135.1 | 1127.1 | 1119.1 | 1105.7 | 1092.3 | 1083.8 |
| 5° | 1252.6 | 1243.9 | 1226.6 | 1209.3 | 1183.4 | 1157.4 | 1135.5 | 1113.7 | 1085.9 | 1058.1 | 1034.9 |
| 7.5° | 1293.3 | 1286.3 | 1265.3 | 1244.4 | 1210.0 | 1175.6 | 1141.4 | 1107.3 | 1066.3 | 1025.3 | 990.2 |
| 10° | 1294.5 | 1300.4 | 1283.1 | 1265.8 | 1227.1 | 1188.4 | 1141.9 | 1095.4 | 1040.3 | 985.2 | 939.9 |
| 12.5° | 1254.0 | 1279.5 | 1275.8 | 1272.2 | 1232.8 | 1193.4 | 1136.9 | 1080.4 | 1012.8 | 945.1 | 888.4 |
| 15° | 1178.1 | 1227.5 | 1242.1 | 1256.7 | 1224.1 | 1191.5 | 1127.3 | 1063.1 | 983.6 | 904.1 | 839.0 |
| 17.5° | 1080.4 | 1149.6 | 1188.1 | 1226.6 | 1202.9 | 1179.3 | 1108.9 | 1038.5 | 949.0 | 859.5 | 788.7 |
| 20° | 964.7 | 1055.4 | 1115.7 | 1176.1 | 1167.4 | 1158.8 | 1086.1 | 1013.5 | 916.9 | 820.3 | 743.6 |
| 22.5° | 850.4 | 946.0 | 1029.4 | 1112.7 | 1121.6 | 1130.5 | 1057.2 | 983.8 | 878.2 | 772.5 | 694.4 |
| 25° | 751.8 | 849.0 | 948.3 | 1047.6 | 1067.7 | 1087.7 | 1018.0 | 948.3 | 838.8 | 729.2 | 651.6 |
| 27.5° | 657.7 | 750.2 | 859.5 | 968.8 | 1005.3 | 1041.7 | 977.9 | 914.2 | 800.1 | 686.0 | 608.5 |
| 30° | 581.0 | 663.6 | 775.2 | 886.8 | 937.6 | 988.4 | 929.9 | 871.3 | 758.2 | 645.0 | 569.1 |
| 32.5° | 509.5 | 583.5 | 695.5 | 807.6 | 866.6 | 925.5 | 875.0 | 824.4 | 715.6 | 606.7 | 531.8 |
| 35° | 453.0 | 519.3 | 623.8 | 728.3 | 794.4 | 860.4 | 819.0 | 777.5 | 671.2 | 564.8 | 494.0 |
| 37.5° | 404.5 | 460.0 | 558.2 | 656.4 | 726.5 | 796.6 | 762.0 | 727.4 | 627.4 | 527.5 | 460.5 |
| 40° | 364.4 | 409.0 | 500.4 | 591.7 | 660.5 | 729.2 | 699.6 | 670.0 | 580.5 | 491.0 | 428.4 |
| 42.5° | 330.0 | 368.5 | 450.5 | 532.5 | 595.5 | 658.6 | 639.0 | 619.5 | 538.4 | 457.3 | 399.2 |
| 45° | 299.7 | 332.0 | 404.2 | 476.4 | 534.5 | 592.6 | 577.1 | 561.6 | 491.7 | 421.8 | 368.5 |
| 47.5° | 272.8 | 300.6 | 365.1 | 429.5 | 481.7 | 533.8 | 519.5 | 505.1 | 447.3 | 389.4 | 340.9 |
| 50° | 248.2 | 271.9 | 325.7 | 379.4 | 426.3 | 473.2 | 461.4 | 449.6 | 401.7 | 353.9 | 312.0 |
| 52.5° | 225.0 | 244.6 | 292.9 | 341.2 | 379.0 | 416.8 | 407.7 | 398.5 | 361.7 | 324.8 | 286.7 |
| 55° | 202.9 | 220.9 | 261.7 | 302.4 | 334.8 | 367.1 | 358.0 | 348.9 | 320.2 | 291.5 | 258.0 |
| 57.5° | 182.9 | 198.6 | 231.6 | 264.6 | 290.4 | 316.1 | 311.8 | 307.5 | 283.5 | 259.6 | 232.1 |
| 60° | 161.7 | 175.8 | 204.3 | 232.8 | 253.5 | 274.2 | 269.2 | 264.2 | 247.1 | 230.0 | 206.3 |
| 62.5° | 142.8 | 155.3 | 178.1 | 200.9 | 217.7 | 234.6 | 230.9 | 227.3 | 214.3 | 201.3 | 181.7 |
| 65° | 123.0 | 135.3 | 153.7 | 172.2 | 185.4 | 198.6 | 195.4 | 192.2 | 182.4 | 172.6 | 156.9 |
| 67.5° | 105.0 | 115.2 | 131.2 | 147.1 | 156.0 | 164.9 | 163.1 | 161.2 | 153.7 | 146.2 | 133.9 |
| 70° | 86.8 | 95.7 | 108.9 | 122.1 | 128.2 | 134.4 | 135.1 | 135.7 | 128.9 | 122.1 | 113.0 |
| 72.5° | 68.6 | 75.6 | 87.9 | 100.2 | 105.0 | 109.8 | 109.5 | 109.3 | 105.2 | 101.1 | 92.9 |
| 75° | 52.6 | 57.8 | 67.4 | 77.0 | 81.1 | 85.2 | 86.1 | 87.0 | 83.1 | 79.3 | 74.7 |
| 77.5° | 37.8 | 41.4 | 48.7 | 56.0 | 60.6 | 65.1 | 65.6 | 66.0 | 64.2 | 62.4 | 58.1 |
| 80° | 26.6 | 27.8 | 32.3 | 36.9 | 41.7 | 46.5 | 47.1 | 47.8 | 46.0 | 44.2 | 41.4 |
| 82.5° | 18.4 | 19.1 | 20.7 | 22.3 | 26.2 | 30.1 | 31.0 | 31.9 | 31.0 | 30.1 | 27.1 |
| 85° | 11.2 | 11.4 | 12.1 | 12.8 | 14.6 | 16.4 | 17.3 | 18.2 | 17.8 | 17.3 | 15.7 |
| 87.5° | 5.0 | 5.0 | 5.2 | 5.5 | 5.9 | 6.4 | 7.5 | 8.7 | 8.0 | 7.3 | 6.6 |
| 90° | 18.2 | 15.3 | 12.4 | 9.9 | 7.7 | 5.4 | 3.2 | 1.0 | 3.2 | 5.4 | 7.7 |
| 92.5° | 22.0 | 20.0 | 18.0 | 17.6 | 19.0 | 20.3 | 21.6 | 23.0 | 21.6 | 20.3 | 19.0 |
| 95° | 26.1 | 23.6 | 21.2 | 24.5 | 33.6 | 42.7 | 51.8 | 60.9 | 51.8 | 42.7 | 33.6 |
| 97.5° | 54.6 | 65.9 | 77.2 | 86.0 | 92.2 | 98.4 | 104.6 | 110.8 | 104.6 | 98.4 | 92.2 |
| 100° | 102.1 | 136.7 | 171.3 | 186.4 | 182.0 | 177.6 | 173.1 | 168.7 | 173.1 | 177.6 | 182.0 |
| 102.5° | 151.1 | 189.6 | 228.2 | 246.1 | 243.2 | 240.3 | 237.4 | 234.6 | 237.4 | 240.3 | 243.2 |
| 105° | 258.5 | 278.5 | 298.4 | 307.2 | 304.8 | 302.3 | 299.9 | 297.4 | 299.9 | 302.3 | 304.8 |
| 107.5° | 381.6 | 378.3 | 375.0 | 372.3 | 370.3 | 368.3 | 366.3 | 364.3 | 366.3 | 368.3 | 370.3 |
| 110° | 445.3 | 442.8 | 440.4 | 438.3 | 436.5 | 434.7 | 433.0 | 431.2 | 433.0 | 434.7 | 436.5 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 508.2 | 505.7 | 503.3 | 501.3 | 499.7 | 498.2 | 496.6 | 495.1 | 496.6 | 498.2 | 499.7 |
| 115° | 568.9 | 566.9 | 565.0 | 563.3 | 562.0 | 560.6 | 559.3 | 558.0 | 559.3 | 560.6 | 562.0 |
| 117.5° | 629.6 | 628.5 | 627.4 | 626.1 | 624.5 | 623.0 | 621.4 | 619.8 | 621.4 | 623.0 | 624.5 |
| 120° | 687.4 | 686.7 | 686.1 | 684.7 | 682.7 | 680.7 | 678.7 | 676.7 | 678.7 | 680.7 | 682.7 |
| 122.5° | 743.8 | 743.0 | 742.1 | 740.8 | 739.3 | 737.7 | 736.2 | 734.6 | 736.2 | 737.7 | 739.3 |
| 125° | 796.7 | 795.9 | 795.0 | 793.6 | 791.9 | 790.1 | 788.3 | 786.5 | 788.3 | 790.1 | 791.9 |
| 127.5° | 849.2 | 848.1 | 847.0 | 845.5 | 843.8 | 842.0 | 840.2 | 838.4 | 840.2 | 842.0 | 843.8 |
| 130° | 896.6 | 895.7 | 894.8 | 893.5 | 891.7 | 889.9 | 888.1 | 886.4 | 888.1 | 889.9 | 891.7 |
| 132.5° | 941.9 | 941.3 | 940.6 | 939.4 | 937.6 | 935.8 | 934.0 | 932.3 | 934.0 | 935.8 | 937.6 |
| 135° | 987.4 | 986.5 | 985.6 | 984.5 | 983.2 | 981.8 | 980.5 | 979.2 | 980.5 | 981.8 | 983.2 |
| 137.5° | 1028.2 | 1027.8 | 1027.3 | 1026.2 | 1024.4 | 1022.7 | 1020.9 | 1019.1 | 1020.9 | 1022.7 | 1024.4 |
| 140° | 1066.7 | 1066.0 | 1065.4 | 1064.4 | 1063.0 | 1061.7 | 1060.4 | 1059.0 | 1060.4 | 1061.7 | 1063.0 |
| 142.5° | 1103.6 | 1103.0 | 1102.3 | 1101.3 | 1100.0 | 1098.6 | 1097.3 | 1096.0 | 1097.3 | 1098.6 | 1100.0 |
| 145° | 1138.0 | 1137.6 | 1137.1 | 1136.1 | 1134.6 | 1133.0 | 1131.5 | 1129.9 | 1131.5 | 1133.0 | 1134.6 |
| 147.5° | 1168.9 | 1168.5 | 1168.1 | 1167.3 | 1166.2 | 1165.1 | 1164.0 | 1162.8 | 1164.0 | 1165.1 | 1166.2 |
| 150° | 1196.9 | 1196.4 | 1196.0 | 1195.4 | 1194.8 | 1194.1 | 1193.5 | 1192.8 | 1193.5 | 1194.1 | 1194.8 |
| 152.5° | 1221.3 | 1221.1 | 1220.8 | 1220.6 | 1220.4 | 1220.2 | 1220.0 | 1219.7 | 1220.0 | 1220.2 | 1220.4 |
| 155° | 1243.2 | 1243.0 | 1242.8 | 1242.9 | 1243.4 | 1243.8 | 1244.2 | 1244.7 | 1244.2 | 1243.8 | 1243.4 |
| 157.5° | 1264.1 | 1264.3 | 1264.5 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 |
| 160° | 1281.1 | 1281.3 | 1281.5 | 1281.7 | 1282.0 | 1282.2 | 1282.4 | 1282.6 | 1282.4 | 1282.2 | 1282.0 |
| 162.5° | 1296.0 | 1296.3 | 1296.5 | 1296.9 | 1297.6 | 1298.3 | 1298.9 | 1299.6 | 1298.9 | 1298.3 | 1297.6 |
| 165° | 1309.0 | 1309.2 | 1309.5 | 1309.9 | 1310.6 | 1311.2 | 1311.9 | 1312.6 | 1311.9 | 1311.2 | 1310.6 |
| 167.5° | 1319.6 | 1319.6 | 1319.6 | 1320.0 | 1320.9 | 1321.8 | 1322.7 | 1323.5 | 1322.7 | 1321.8 | 1320.9 |
| 170° | 1328.5 | 1328.5 | 1328.5 | 1329.0 | 1329.9 | 1330.8 | 1331.6 | 1332.5 | 1331.6 | 1330.8 | 1329.9 |
| 172.5° | 1334.1 | 1333.9 | 1333.6 | 1334.1 | 1335.2 | 1336.3 | 1337.4 | 1338.5 | 1337.4 | 1336.3 | 1335.2 |
| 175° | 1339.1 | 1338.8 | 1338.6 | 1339.1 | 1340.2 | 1341.3 | 1342.4 | 1343.5 | 1342.4 | 1341.3 | 1340.2 |
| 177.5° | 1341.1 | 1340.8 | 1340.6 | 1341.1 | 1342.2 | 1343.3 | 1344.4 | 1345.5 | 1344.4 | 1343.3 | 1342.2 |
| 180° | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 | 1110.9 |
| 2.5° | 1075.4 | 1062.4 | 1049.4 | 1040.1 | 1030.8 | 1019.1 | 1007.5 | 1007.1 | 1006.6 | 998.0 | 989.3 |
| 5° | 1011.6 | 989.1 | 966.5 | 944.4 | 922.4 | 900.3 | 878.2 | 873.2 | 868.2 | 860.6 | 853.1 |
| 7.5° | 955.2 | 919.2 | 883.2 | 854.9 | 826.7 | 804.6 | 782.5 | 767.5 | 752.5 | 740.8 | 729.2 |
| 10° | 894.6 | 849.9 | 805.3 | 771.1 | 737.0 | 713.1 | 689.1 | 671.8 | 654.5 | 646.3 | 638.1 |
| 12.5° | 831.7 | 783.2 | 734.7 | 701.2 | 667.7 | 639.0 | 610.3 | 594.6 | 578.9 | 567.5 | 556.1 |
| 15° | 773.9 | 721.7 | 669.6 | 634.0 | 598.5 | 571.6 | 544.8 | 529.0 | 513.3 | 501.9 | 490.6 |
| 17.5° | 717.8 | 665.2 | 612.6 | 576.6 | 540.7 | 516.3 | 491.9 | 476.7 | 461.4 | 454.3 | 447.3 |
| 20° | 666.8 | 613.8 | 560.7 | 526.8 | 492.8 | 468.9 | 445.0 | 436.8 | 428.6 | 422.0 | 415.4 |
| 22.5° | 616.3 | 565.3 | 514.2 | 481.7 | 449.1 | 431.8 | 414.5 | 407.9 | 401.3 | 396.3 | 391.3 |
| 25° | 573.9 | 523.1 | 472.3 | 443.9 | 415.4 | 402.0 | 388.5 | 384.2 | 379.9 | 374.9 | 369.9 |
| 27.5° | 531.1 | 482.8 | 434.5 | 411.8 | 389.0 | 378.1 | 367.1 | 361.7 | 356.2 | 352.1 | 348.0 |
| 30° | 493.3 | 448.7 | 404.0 | 385.1 | 366.2 | 356.6 | 347.1 | 341.2 | 335.2 | 331.4 | 327.5 |
| 32.5° | 456.9 | 417.2 | 377.6 | 361.4 | 345.3 | 335.9 | 326.6 | 320.9 | 315.2 | 310.6 | 306.1 |
| 35° | 423.1 | 388.8 | 354.4 | 339.6 | 324.8 | 315.4 | 306.1 | 300.4 | 294.7 | 290.1 | 285.6 |
| 37.5° | 393.5 | 362.3 | 331.1 | 317.2 | 303.4 | 295.2 | 287.0 | 281.0 | 275.1 | 270.3 | 265.5 |
| 40° | 365.8 | 338.2 | 310.6 | 297.2 | 283.8 | 274.9 | 266.0 | 260.8 | 255.5 | 251.2 | 246.9 |
| 42.5° | 341.2 | 315.9 | 290.6 | 277.4 | 264.2 | 255.8 | 247.3 | 241.2 | 235.0 | 232.5 | 230.0 |
| 45° | 315.2 | 292.9 | 270.6 | 257.8 | 245.1 | 236.2 | 227.3 | 222.0 | 216.8 | 214.5 | 212.3 |
| 47.5° | 292.4 | 271.7 | 251.0 | 238.4 | 225.9 | 217.9 | 210.0 | 205.9 | 201.8 | 198.6 | 195.4 |
| 50° | 270.1 | 250.1 | 230.0 | 217.9 | 205.9 | 199.0 | 192.2 | 187.2 | 182.2 | 179.9 | 177.6 |
| 52.5° | 248.7 | 230.5 | 212.3 | 200.0 | 187.7 | 181.1 | 174.5 | 170.1 | 165.8 | 161.0 | 156.2 |
| 55° | 224.6 | 208.6 | 192.7 | 181.7 | 170.8 | 164.0 | 157.1 | 152.1 | 147.1 | 142.1 | 137.1 |
| 57.5° | 204.5 | 188.8 | 173.1 | 163.3 | 153.5 | 146.9 | 140.3 | 134.8 | 129.4 | 125.3 | 121.2 |
| 60° | 182.6 | 169.0 | 155.3 | 145.8 | 136.2 | 129.8 | 123.4 | 118.2 | 113.0 | 110.9 | 108.9 |
| 62.5° | 162.2 | 149.4 | 136.6 | 128.2 | 119.8 | 113.6 | 107.5 | 104.1 | 100.7 | 99.3 | 97.9 |
| 65° | 141.2 | 130.3 | 119.3 | 111.6 | 103.9 | 98.6 | 93.4 | 91.8 | 90.2 | 89.0 | 87.9 |
| 67.5° | 121.6 | 112.3 | 102.9 | 96.1 | 89.3 | 85.6 | 82.0 | 80.2 | 78.3 | 77.0 | 75.6 |
| 70° | 103.9 | 95.7 | 87.5 | 81.5 | 75.6 | 72.2 | 68.8 | 67.2 | 65.6 | 63.1 | 60.6 |
| 72.5° | 84.7 | 78.3 | 72.0 | 67.4 | 62.9 | 59.9 | 56.9 | 53.7 | 50.6 | 48.3 | 46.0 |
| 75° | 70.1 | 63.8 | 57.4 | 53.1 | 48.7 | 45.3 | 41.9 | 40.8 | 39.6 | 38.9 | 38.3 |
| 77.5° | 53.7 | 48.3 | 42.8 | 39.4 | 36.0 | 34.4 | 32.8 | 32.1 | 31.4 | 31.2 | 31.0 |
| 80° | 38.7 | 34.2 | 29.6 | 27.8 | 26.0 | 25.5 | 25.1 | 24.6 | 24.1 | 23.9 | 23.7 |
| 82.5° | 24.1 | 21.9 | 19.6 | 19.1 | 18.7 | 18.4 | 18.2 | 18.0 | 17.8 | 17.5 | 17.3 |
| 85° | 14.1 | 13.2 | 12.3 | 12.1 | 11.8 | 11.6 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 87.5° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.7 | 5.5 |
| 90° | 9.9 | 12.4 | 15.3 | 18.2 | 21.1 | 24.0 | 24.8 | 25.7 | 26.6 | 27.5 | 28.2 |
| 92.5° | 17.6 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 27.5 | 29.1 | 30.6 | 32.2 | 33.0 |
| 95° | 24.5 | 21.2 | 23.6 | 26.1 | 28.5 | 30.9 | 32.5 | 34.0 | 35.6 | 37.2 | 37.9 |
| 97.5° | 86.0 | 77.2 | 65.9 | 54.6 | 43.3 | 31.9 | 33.7 | 35.5 | 37.3 | 39.0 | 40.0 |
| 100° | 186.4 | 171.3 | 136.7 | 102.1 | 67.5 | 32.9 | 34.7 | 36.5 | 38.3 | 40.0 | 41.0 |
| 102.5° | 246.1 | 228.2 | 189.6 | 151.1 | 112.5 | 73.9 | 66.5 | 59.2 | 51.9 | 44.6 | 41.1 |
| 105° | 307.2 | 298.4 | 278.5 | 258.5 | 238.6 | 218.6 | 179.3 | 140.1 | 100.8 | 61.6 | 42.1 |
| 107.5° | 372.3 | 375.0 | 378.3 | 381.6 | 385.0 | 388.3 | 354.1 | 320.0 | 285.8 | 251.6 | 220.0 |
| 110° | 438.3 | 440.4 | 442.8 | 445.3 | 447.7 | 450.2 | 442.8 | 435.5 | 428.2 | 420.9 | 401.4 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 501.3 | 503.3 | 505.7 | 508.2 | 510.6 | 513.0 | 515.0 | 517.0 | 519.0 | 521.0 | 521.8 |
| 115° | 563.3 | 565.0 | 566.9 | 568.9 | 570.9 | 572.9 | 575.2 | 577.4 | 579.6 | 581.8 | 583.4 |
| 117.5° | 626.1 | 627.4 | 628.5 | 629.6 | 630.7 | 631.8 | 633.6 | 635.4 | 637.2 | 638.9 | 639.9 |
| 120° | 684.7 | 686.1 | 686.7 | 687.4 | 688.1 | 688.7 | 690.5 | 692.3 | 694.0 | 695.8 | 696.7 |
| 122.5° | 740.8 | 742.1 | 743.0 | 743.8 | 744.7 | 745.6 | 746.7 | 747.8 | 748.9 | 750.1 | 750.7 |
| 125° | 793.6 | 795.0 | 795.9 | 796.7 | 797.6 | 798.5 | 799.0 | 799.4 | 799.8 | 800.3 | 800.7 |
| 127.5° | 845.5 | 847.0 | 848.1 | 849.2 | 850.3 | 851.4 | 852.1 | 852.8 | 853.4 | 854.1 | 854.2 |
| 130° | 893.5 | 894.8 | 895.7 | 896.6 | 897.4 | 898.3 | 899.2 | 900.1 | 901.0 | 901.9 | 902.1 |
| 132.5° | 939.4 | 940.6 | 941.3 | 941.9 | 942.6 | 943.2 | 944.1 | 945.0 | 945.9 | 946.8 | 946.9 |
| 135° | 984.5 | 985.6 | 986.5 | 987.4 | 988.3 | 989.2 | 989.8 | 990.5 | 991.2 | 991.8 | 991.8 |
| 137.5° | 1026.2 | 1027.3 | 1027.8 | 1028.2 | 1028.6 | 1029.1 | 1030.2 | 1031.3 | 1032.4 | 1033.5 | 1033.9 |
| 140° | 1064.4 | 1065.4 | 1066.0 | 1066.7 | 1067.4 | 1068.0 | 1068.9 | 1069.8 | 1070.7 | 1071.6 | 1071.8 |
| 142.5° | 1101.3 | 1102.3 | 1103.0 | 1103.6 | 1104.3 | 1104.9 | 1105.6 | 1106.3 | 1106.9 | 1107.6 | 1107.6 |
| 145° | 1136.1 | 1137.1 | 1137.6 | 1138.0 | 1138.4 | 1138.9 | 1139.3 | 1139.8 | 1140.2 | 1140.7 | 1140.9 |
| 147.5° | 1167.3 | 1168.1 | 1168.5 | 1168.9 | 1169.4 | 1169.8 | 1170.3 | 1170.7 | 1171.2 | 1171.6 | 1171.3 |
| 150° | 1195.4 | 1196.0 | 1196.4 | 1196.9 | 1197.3 | 1197.8 | 1198.2 | 1198.7 | 1199.1 | 1199.6 | 1199.4 |
| 152.5° | 1220.6 | 1220.8 | 1221.1 | 1221.3 | 1221.5 | 1221.7 | 1222.6 | 1223.5 | 1224.4 | 1225.3 | 1225.2 |
| 155° | 1242.9 | 1242.8 | 1243.0 | 1243.2 | 1243.5 | 1243.7 | 1244.8 | 1245.9 | 1247.0 | 1248.1 | 1248.0 |
| 157.5° | 1264.7 | 1264.5 | 1264.3 | 1264.1 | 1263.9 | 1263.7 | 1265.0 | 1266.3 | 1267.6 | 1269.0 | 1268.8 |
| 160° | 1281.7 | 1281.5 | 1281.3 | 1281.1 | 1280.8 | 1280.6 | 1282.0 | 1283.3 | 1284.6 | 1285.9 | 1285.8 |
| 162.5° | 1296.9 | 1296.5 | 1296.3 | 1296.0 | 1295.8 | 1295.6 | 1297.1 | 1298.7 | 1300.3 | 1301.8 | 1301.9 |
| 165° | 1309.9 | 1309.5 | 1309.2 | 1309.0 | 1308.8 | 1308.6 | 1310.3 | 1312.1 | 1313.9 | 1315.7 | 1315.8 |
| 167.5° | 1320.0 | 1319.6 | 1319.6 | 1319.6 | 1319.6 | 1319.6 | 1321.3 | 1323.1 | 1324.9 | 1326.6 | 1326.6 |
| 170° | 1329.0 | 1328.5 | 1328.5 | 1328.5 | 1328.5 | 1328.5 | 1330.3 | 1332.1 | 1333.9 | 1335.6 | 1335.6 |
| 172.5° | 1334.1 | 1333.6 | 1333.9 | 1334.1 | 1334.3 | 1334.5 | 1336.3 | 1338.1 | 1339.8 | 1341.6 | 1341.5 |
| 175° | 1339.1 | 1338.6 | 1338.8 | 1339.1 | 1339.3 | 1339.5 | 1341.1 | 1342.6 | 1344.2 | 1345.7 | 1345.6 |
| 177.5° | 1341.1 | 1340.6 | 1340.8 | 1341.1 | 1341.3 | 1341.5 | 1343.3 | 1345.1 | 1346.8 | 1348.6 | 1348.4 |
| 180° | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 | 1343.5 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 1110.9 | 1110.9 | 1110.9 | 1110.9 |
| 2.5° | 987.0 | 984.8 | 983.8 | 982.9 |
| 5° | 846.1 | 839.0 | 837.4 | 835.8 |
| 7.5° | 726.3 | 723.3 | 713.5 | 703.7 |
| 10° | 629.0 | 619.9 | 615.8 | 611.7 |
| 12.5° | 547.7 | 539.3 | 537.9 | 536.6 |
| 15° | 484.6 | 478.7 | 476.7 | 474.6 |
| 17.5° | 443.2 | 439.1 | 436.6 | 434.1 |
| 20° | 412.4 | 409.5 | 407.7 | 405.8 |
| 22.5° | 389.0 | 386.7 | 385.3 | 384.0 |
| 25° | 366.4 | 363.0 | 361.9 | 360.7 |
| 27.5° | 345.0 | 342.1 | 340.9 | 339.8 |
| 30° | 325.0 | 322.5 | 320.9 | 319.3 |
| 32.5° | 303.1 | 300.2 | 299.3 | 298.3 |
| 35° | 283.8 | 281.9 | 281.0 | 280.1 |
| 37.5° | 263.3 | 261.0 | 259.6 | 258.3 |
| 40° | 245.7 | 244.6 | 243.9 | 243.2 |
| 42.5° | 228.0 | 225.9 | 225.7 | 225.5 |
| 45° | 210.2 | 208.2 | 207.7 | 207.2 |
| 47.5° | 193.6 | 191.8 | 191.5 | 191.3 |
| 50° | 175.1 | 172.6 | 170.8 | 169.0 |
| 52.5° | 154.0 | 151.7 | 150.1 | 148.5 |
| 55° | 134.6 | 132.1 | 130.7 | 129.4 |
| 57.5° | 120.0 | 118.9 | 118.2 | 117.5 |
| 60° | 108.2 | 107.5 | 107.0 | 106.6 |
| 62.5° | 97.2 | 96.6 | 96.6 | 96.6 |
| 65° | 87.2 | 86.5 | 85.9 | 85.2 |
| 67.5° | 74.2 | 72.9 | 72.6 | 72.4 |
| 70° | 58.5 | 56.5 | 56.3 | 56.0 |
| 72.5° | 45.8 | 45.5 | 45.1 | 44.6 |
| 75° | 37.8 | 37.3 | 37.3 | 37.3 |
| 77.5° | 30.5 | 30.1 | 30.1 | 30.1 |
| 80° | 23.5 | 23.2 | 23.5 | 23.7 |
| 82.5° | 17.3 | 17.3 | 17.1 | 16.9 |
| 85° | 11.2 | 10.9 | 10.9 | 10.9 |
| 87.5° | 5.5 | 5.5 | 5.5 | 5.5 |
| 90° | 28.6 | 29.1 | 29.5 | 29.9 |
| 92.5° | 33.3 | 33.5 | 33.7 | 33.9 |
| 95° | 37.9 | 37.9 | 37.9 | 37.9 |
| 97.5° | 40.3 | 40.5 | 40.7 | 40.9 |
| 100° | 41.3 | 41.5 | 41.7 | 41.9 |
| 102.5° | 41.6 | 42.0 | 42.5 | 42.9 |
| 105° | 42.6 | 43.0 | 43.5 | 43.9 |
| 107.5° | 191.0 | 161.9 | 132.9 | 103.8 |
| 110° | 369.6 | 337.9 | 306.2 | 274.5 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 521.4 | 520.9 | 520.5 | 520.0 |
| 115° | 584.2 | 585.1 | 586.0 | 586.9 |
| 117.5° | 640.1 | 640.4 | 640.6 | 640.8 |
| 120° | 696.7 | 696.7 | 696.7 | 696.7 |
| 122.5° | 750.9 | 751.2 | 751.4 | 751.6 |
| 125° | 801.2 | 801.6 | 802.1 | 802.5 |
| 127.5° | 853.7 | 853.3 | 852.9 | 852.4 |
| 130° | 901.7 | 901.2 | 900.8 | 900.3 |
| 132.5° | 946.2 | 945.6 | 944.9 | 944.2 |
| 135° | 991.2 | 990.5 | 989.8 | 989.2 |
| 137.5° | 1033.4 | 1033.0 | 1032.5 | 1032.1 |
| 140° | 1071.3 | 1070.9 | 1070.5 | 1070.0 |
| 142.5° | 1106.9 | 1106.3 | 1105.6 | 1104.9 |
| 145° | 1140.9 | 1140.9 | 1140.9 | 1140.9 |
| 147.5° | 1170.2 | 1169.1 | 1167.9 | 1166.8 |
| 150° | 1198.8 | 1198.1 | 1197.4 | 1196.8 |
| 152.5° | 1224.1 | 1223.0 | 1221.8 | 1220.7 |
| 155° | 1246.7 | 1245.4 | 1244.0 | 1242.7 |
| 157.5° | 1267.0 | 1265.2 | 1263.4 | 1261.7 |
| 160° | 1284.3 | 1282.7 | 1281.2 | 1279.6 |
| 162.5° | 1300.6 | 1299.3 | 1297.9 | 1296.6 |
| 165° | 1314.2 | 1312.7 | 1311.1 | 1309.6 |
| 167.5° | 1324.9 | 1323.1 | 1321.3 | 1319.6 |
| 170° | 1333.9 | 1332.1 | 1330.3 | 1328.5 |
| 172.5° | 1339.5 | 1337.5 | 1335.5 | 1333.5 |
| 175° | 1343.8 | 1342.1 | 1340.3 | 1338.5 |
| 177.5° | 1346.2 | 1343.9 | 1341.7 | 1339.5 |
| 180° | 1343.5 | 1343.5 | 1343.5 | 1343.5 |



TEST NUMBER: P832038

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-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 | 6.61 | 7.27 | 7.76 | 8.40 | 9.97 | 11.28 | 11.93 | 12.42 | 13.06 | 14.64 |
| | 3H | 7.82 | 8.41 | 8.97 | 9.54 | 11.13 | 12.76 | 13.35 | 13.91 | 14.49 | 16.08 |
| | 4H | 8.19 | 8.75 | 9.35 | 9.89 | 11.49 | 13.24 | 13.80 | 14.40 | 14.94 | 16.53 |
| | 6H | 8.47 | 8.98 | 9.63 | 10.12 | 11.73 | 13.55 | 14.06 | 14.71 | 15.20 | 16.81 |
| | 8H | 8.55 | 9.04 | 9.72 | 10.19 | 11.79 | 13.62 | 14.11 | 14.79 | 15.26 | 16.86 |
| | 12H | 8.60 | 9.06 | 9.77 | 10.21 | 11.83 | 13.65 | 14.11 | 14.82 | 15.26 | 16.88 |
| 4H | 2H | 7.31 | 7.87 | 8.48 | 9.01 | 10.61 | 11.25 | 11.81 | 12.42 | 12.95 | 14.54 |
| | 3H | 8.67 | 9.13 | 9.84 | 10.30 | 11.90 | 12.89 | 13.36 | 14.07 | 14.52 | 16.13 |
| | 4H | 9.12 | 9.55 | 10.29 | 10.70 | 12.32 | 13.49 | 13.92 | 14.67 | 15.07 | 16.70 |
| | 6H | 9.48 | 9.84 | 10.65 | 11.02 | 12.63 | 13.92 | 14.29 | 15.10 | 15.46 | 17.08 |
| | 8H | 9.60 | 9.94 | 10.78 | 11.10 | 12.74 | 14.05 | 14.39 | 15.23 | 15.56 | 17.19 |
| | 12H | 9.67 | 9.98 | 10.86 | 11.15 | 12.79 | 14.11 | 14.41 | 15.30 | 15.59 | 17.23 |
| 8H | 4H | 9.42 | 9.76 | 10.60 | 10.93 | 12.56 | 13.45 | 13.79 | 14.63 | 14.96 | 16.59 |
| | 6H | 9.88 | 10.16 | 11.07 | 11.37 | 12.99 | 13.94 | 14.22 | 15.14 | 15.43 | 17.06 |
| | 8H | 10.07 | 10.31 | 11.27 | 11.50 | 13.15 | 14.13 | 14.37 | 15.33 | 15.55 | 17.20 |
| | 12H | 10.20 | 10.42 | 11.41 | 11.60 | 13.28 | 14.23 | 14.45 | 15.44 | 15.63 | 17.31 |
| 12H | 4H | 9.42 | 9.73 | 10.62 | 10.91 | 12.55 | 13.39 | 13.70 | 14.58 | 14.88 | 16.51 |
| | 6H | 9.94 | 10.18 | 11.14 | 11.37 | 13.01 | 13.91 | 14.16 | 15.12 | 15.34 | 16.99 |
| | 8H | 10.15 | 10.36 | 11.35 | 11.54 | 13.22 | 14.10 | 14.31 | 15.30 | 15.50 | 17.18 |