

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: P831445

Luminaire Tested: S123DIP-S340D805U940-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831445
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-S340D805U940-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

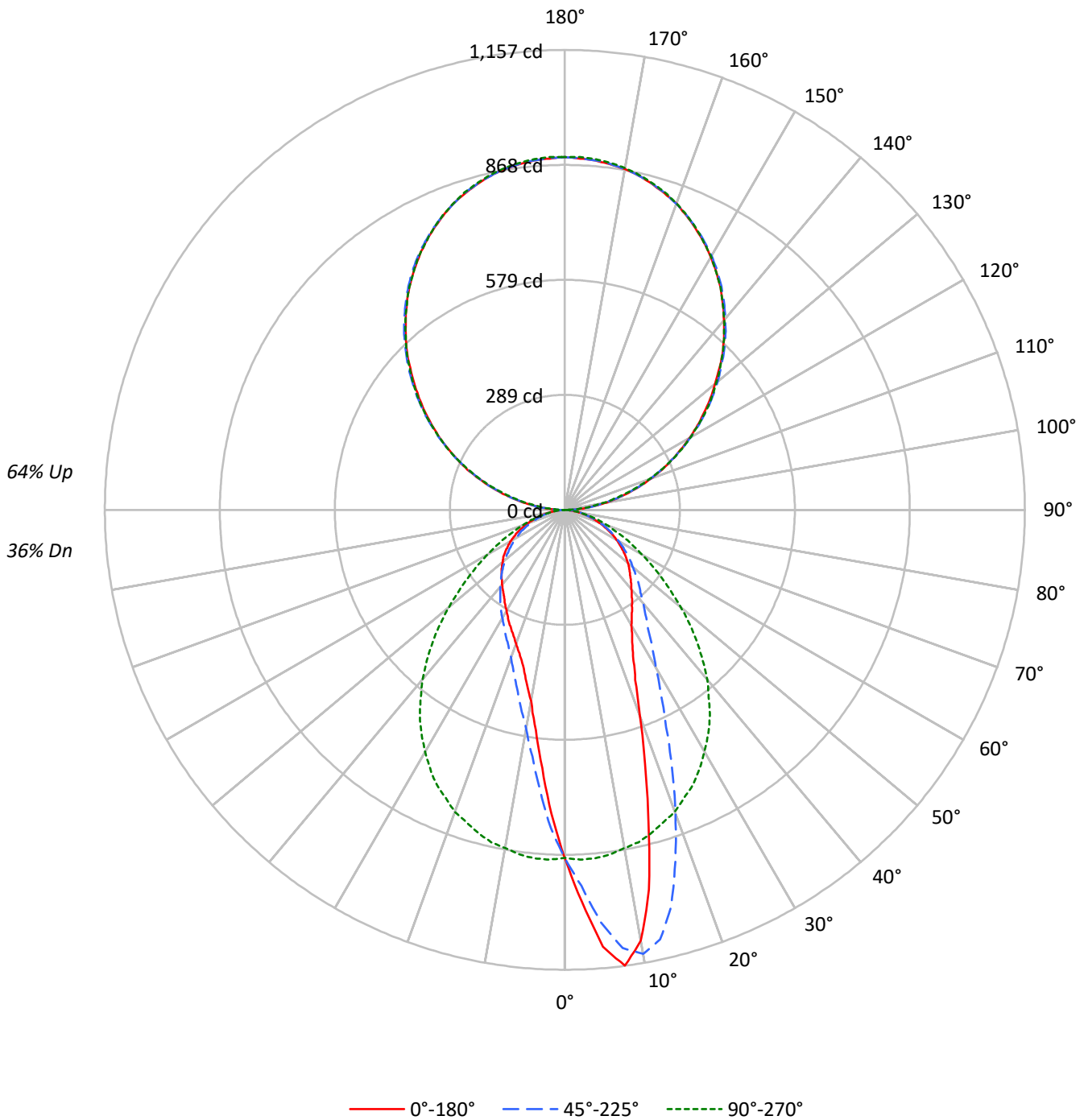
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.3 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 33
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: P831445
CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |
| 1 | 95 | 91 | 87 | 84 | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 52 | 51 | 50 | 39 | 38 | 38 | 31 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 59 | 56 | 53 | 47 | 44 | 42 | 35 | 33 | 32 | 27 |
| 3 | 80 | 71 | 64 | 58 | 72 | 64 | 58 | 54 | 52 | 48 | 45 | 42 | 39 | 36 | 31 | 30 | 28 | 23 |
| 4 | 73 | 63 | 55 | 50 | 66 | 57 | 51 | 46 | 47 | 42 | 39 | 37 | 34 | 31 | 28 | 26 | 24 | 21 |
| 5 | 67 | 56 | 48 | 43 | 61 | 51 | 45 | 40 | 42 | 37 | 33 | 34 | 30 | 28 | 26 | 24 | 22 | 18 |
| 6 | 62 | 50 | 43 | 37 | 56 | 46 | 40 | 35 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7 | 57 | 46 | 38 | 33 | 52 | 42 | 35 | 31 | 35 | 30 | 26 | 28 | 24 | 22 | 22 | 19 | 17 | 15 |
| 8 | 53 | 42 | 34 | 29 | 48 | 38 | 32 | 27 | 32 | 27 | 23 | 26 | 22 | 20 | 20 | 18 | 16 | 13 |
| 9 | 50 | 38 | 31 | 26 | 45 | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 12 |
| 10 | 46 | 35 | 28 | 23 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 9424 | 9424 | 9424 | 9424 | 9424 |
| 5° | 11918 | 11249 | 9508 | 7662 | 7042 |
| 10° | 12034 | 12398 | 9445 | 6108 | 5337 |
| 15° | 9063 | 11510 | 9381 | 5173 | 4513 |
| 20° | 6315 | 9314 | 9261 | 4523 | 4100 |
| 25° | 4816 | 7163 | 9057 | 4162 | 3846 |
| 30° | 4166 | 5691 | 8730 | 3905 | 3640 |
| 35° | 3865 | 4804 | 8355 | 3721 | 3497 |
| 40° | 3659 | 4310 | 7827 | 3545 | 3448 |
| 45° | 3538 | 3988 | 7155 | 3408 | 3427 |
| 50° | 3476 | 3734 | 6362 | 3282 | 3408 |
| 55° | 3348 | 3549 | 5581 | 3164 | 3423 |
| 60° | 3227 | 3350 | 4809 | 3053 | 3367 |
| 65° | 3031 | 3161 | 4149 | 2934 | 3301 |
| 70° | 2801 | 2921 | 3528 | 2735 | 3106 |
| 75° | 2533 | 2620 | 3023 | 2541 | 2840 |
| 80° | 2089 | 2294 | 2393 | 2219 | 2393 |
| 85° | 1655 | 1853 | 1754 | 1877 | 1902 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 8170 cd/sqm



TEST NUMBER: P831445

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.8 | 2.1 |
| 10°-20° | 205.9 | 5.3 |
| 20°-30° | 243.8 | 6.3 |
| 30°-40° | 245.1 | 6.3 |
| 40°-50° | 224.9 | 5.8 |
| 50°-60° | 185.6 | 4.8 |
| 60°-70° | 131.3 | 3.4 |
| 70°-80° | 70.1 | 1.8 |
| 80°-90° | 19.7 | 0.5 |
| 90°-100° | 57.1 | 1.5 |
| 100°-110° | 172.9 | 4.5 |
| 110°-120° | 294.4 | 7.6 |
| 120°-130° | 387.3 | 10.0 |
| 130°-140° | 435.3 | 11.3 |
| 140°-150° | 428.0 | 11.1 |
| 150°-160° | 360.3 | 9.3 |
| 160°-170° | 239.9 | 6.2 |
| 170°-180° | 84.0 | 2.2 |
| 0°-30° | 532.5 | 13.8 |
| 0°-40° | 777.6 | 20.1 |
| 0°-60° | 1188.2 | 30.7 |
| 0°-90° | 1409.3 | 36.4 |
| 90°-120° | 524.4 | 13.6 |
| 90°-150° | 1774.9 | 45.9 |
| 90°-180° | 2459.0 | 63.6 |
| 0°-180° | 3868.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|-----|------|------|------|
| 0° | 876 | 876 | 876 | 876 | 876 | |
| 5° | 1103 | 1041 | 880 | 709 | 652 | 105 |
| 15° | 813 | 1033 | 842 | 464 | 405 | 225 |
| 25° | 406 | 603 | 763 | 350 | 324 | 191 |
| 35° | 294 | 366 | 636 | 283 | 266 | 185 |
| 45° | 232 | 262 | 470 | 224 | 225 | 180 |
| 55° | 178 | 189 | 297 | 169 | 182 | 160 |
| 65° | 119 | 124 | 163 | 115 | 130 | 118 |
| 75° | 61 | 63 | 73 | 61 | 68 | 64 |
| 85° | 13 | 15 | 14 | 15 | 15 | 15 |
| 90° | 21 | 17 | 1 | 17 | 21 | 11 |
| 95° | 54 | 52 | 41 | 52 | 54 | 55 |
| 105° | 166 | 164 | 157 | 164 | 166 | 176 |
| 115° | 297 | 297 | 296 | 297 | 297 | 294 |
| 125° | 429 | 434 | 434 | 434 | 429 | 383 |
| 135° | 562 | 566 | 563 | 566 | 562 | 432 |
| 145° | 682 | 686 | 682 | 686 | 682 | 426 |
| 155° | 780 | 782 | 782 | 782 | 780 | 359 |
| 165° | 848 | 849 | 851 | 849 | 848 | 239 |
| 175° | 882 | 883 | 885 | 883 | 882 | 84 |
| 180° | 888 | 888 | 888 | 888 | 888 | |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 |
| 2.5° | 986.8 | 985.8 | 984.8 | 979.7 | 974.6 | 972.2 | 969.8 | 962.4 | 955.1 | 947.0 | 938.9 |
| 5° | 1103.0 | 1105.9 | 1108.7 | 1105.5 | 1102.2 | 1092.2 | 1082.3 | 1069.1 | 1055.9 | 1041.1 | 1026.2 |
| 7.5° | 1156.6 | 1158.3 | 1159.9 | 1157.9 | 1155.8 | 1153.2 | 1150.5 | 1138.8 | 1127.0 | 1111.7 | 1096.5 |
| 10° | 1101.0 | 1104.6 | 1108.3 | 1116.2 | 1124.1 | 1133.1 | 1142.0 | 1140.4 | 1138.8 | 1134.3 | 1129.8 |
| 12.5° | 978.7 | 983.2 | 987.6 | 1003.5 | 1019.3 | 1039.6 | 1059.9 | 1077.4 | 1094.9 | 1107.1 | 1119.3 |
| 15° | 813.3 | 825.7 | 838.1 | 852.5 | 867.0 | 896.8 | 926.7 | 963.5 | 1000.2 | 1032.9 | 1065.6 |
| 17.5° | 669.9 | 674.6 | 679.3 | 694.7 | 710.2 | 747.7 | 785.3 | 827.8 | 870.2 | 924.5 | 978.7 |
| 20° | 551.3 | 555.6 | 559.8 | 580.1 | 600.5 | 629.9 | 659.4 | 707.1 | 754.8 | 813.1 | 871.4 |
| 22.5° | 463.1 | 469.8 | 476.6 | 487.9 | 499.3 | 527.5 | 555.8 | 598.2 | 640.7 | 705.1 | 769.5 |
| 25° | 405.5 | 410.3 | 415.2 | 422.1 | 429.0 | 451.6 | 474.1 | 509.1 | 544.0 | 603.1 | 662.2 |
| 27.5° | 366.0 | 368.1 | 370.1 | 377.0 | 383.9 | 398.5 | 413.2 | 443.2 | 473.3 | 523.5 | 573.6 |
| 30° | 335.2 | 336.6 | 338.0 | 344.1 | 350.2 | 360.2 | 370.1 | 391.8 | 413.6 | 457.9 | 502.1 |
| 32.5° | 313.6 | 314.7 | 315.7 | 320.3 | 325.0 | 332.1 | 339.2 | 355.1 | 370.9 | 407.5 | 444.0 |
| 35° | 294.1 | 294.7 | 295.4 | 298.8 | 302.3 | 307.5 | 312.8 | 324.8 | 336.8 | 365.6 | 394.5 |
| 37.5° | 277.1 | 277.9 | 278.7 | 280.7 | 282.8 | 287.4 | 292.1 | 301.7 | 311.2 | 333.3 | 355.5 |
| 40° | 260.4 | 261.8 | 263.3 | 264.7 | 266.1 | 270.0 | 273.8 | 281.1 | 288.4 | 306.7 | 325.0 |
| 42.5° | 246.2 | 247.6 | 249.0 | 249.7 | 250.3 | 252.5 | 254.7 | 261.4 | 268.1 | 281.7 | 295.4 |
| 45° | 232.4 | 233.0 | 233.6 | 234.2 | 234.8 | 236.7 | 238.5 | 244.4 | 250.3 | 262.0 | 273.8 |
| 47.5° | 219.8 | 219.8 | 219.8 | 220.2 | 220.6 | 222.2 | 223.9 | 228.1 | 232.4 | 241.5 | 250.7 |
| 50° | 207.6 | 207.6 | 207.6 | 207.0 | 206.4 | 207.4 | 208.4 | 211.7 | 214.9 | 223.0 | 231.2 |
| 52.5° | 193.0 | 193.0 | 193.0 | 193.2 | 193.4 | 193.4 | 193.4 | 196.2 | 199.1 | 206.4 | 213.7 |
| 55° | 178.4 | 179.2 | 180.0 | 179.4 | 178.8 | 179.2 | 179.6 | 181.4 | 183.2 | 189.1 | 195.0 |
| 57.5° | 163.7 | 164.1 | 164.5 | 164.3 | 164.1 | 164.3 | 164.5 | 166.2 | 167.8 | 172.3 | 176.7 |
| 60° | 149.9 | 149.9 | 149.9 | 149.5 | 149.1 | 149.5 | 149.9 | 150.7 | 151.5 | 155.6 | 159.7 |
| 62.5° | 134.5 | 134.7 | 134.9 | 135.1 | 135.3 | 134.9 | 134.5 | 135.5 | 136.5 | 139.6 | 142.6 |
| 65° | 119.0 | 119.2 | 119.4 | 120.1 | 120.7 | 120.3 | 119.8 | 120.9 | 121.9 | 124.1 | 126.3 |
| 67.5° | 105.2 | 104.8 | 104.4 | 104.6 | 104.8 | 105.4 | 106.0 | 106.2 | 106.4 | 108.9 | 111.3 |
| 70° | 89.0 | 89.4 | 89.8 | 89.6 | 89.4 | 89.6 | 89.8 | 90.4 | 91.0 | 92.8 | 94.7 |
| 72.5° | 74.3 | 74.5 | 74.8 | 74.8 | 74.8 | 75.2 | 75.6 | 76.2 | 76.8 | 77.8 | 78.8 |
| 75° | 60.9 | 60.9 | 60.9 | 61.3 | 61.8 | 62.0 | 62.2 | 62.2 | 62.2 | 63.0 | 63.8 |
| 77.5° | 46.3 | 47.3 | 48.3 | 48.1 | 47.9 | 48.3 | 48.8 | 49.4 | 50.0 | 50.4 | 50.8 |
| 80° | 33.7 | 33.7 | 33.7 | 33.9 | 34.1 | 34.7 | 35.3 | 35.8 | 36.2 | 37.0 | 37.8 |
| 82.5° | 21.5 | 21.7 | 21.9 | 22.5 | 23.2 | 23.6 | 24.0 | 24.6 | 25.2 | 25.2 | 25.2 |
| 85° | 13.4 | 13.0 | 12.6 | 13.0 | 13.4 | 13.8 | 14.2 | 14.4 | 14.6 | 15.0 | 15.4 |
| 87.5° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.7 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 90° | 20.9 | 20.6 | 20.3 | 20.0 | 19.7 | 19.2 | 18.6 | 18.0 | 17.4 | 16.7 | 14.7 |
| 92.5° | 30.0 | 30.3 | 30.6 | 30.9 | 31.2 | 31.1 | 30.7 | 30.2 | 29.7 | 29.3 | 28.4 |
| 95° | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.1 | 53.5 | 52.8 | 52.2 | 51.6 | 50.4 |
| 97.5° | 78.1 | 78.2 | 78.4 | 78.5 | 78.7 | 78.4 | 77.6 | 76.8 | 76.1 | 75.3 | 74.4 |
| 100° | 106.0 | 105.7 | 105.4 | 105.0 | 104.7 | 104.3 | 103.9 | 103.4 | 102.9 | 102.5 | 101.7 |
| 102.5° | 134.6 | 134.7 | 134.9 | 135.0 | 135.2 | 135.0 | 134.6 | 134.1 | 133.6 | 133.2 | 132.1 |
| 105° | 165.9 | 165.6 | 165.3 | 165.0 | 164.7 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 163.1 |
| 107.5° | 198.0 | 198.2 | 198.3 | 198.5 | 198.6 | 198.5 | 198.0 | 197.5 | 197.1 | 196.6 | 196.0 |
| 110° | 230.8 | 231.1 | 231.4 | 231.7 | 232.0 | 231.9 | 231.2 | 230.6 | 230.0 | 229.4 | 229.1 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.2 | 264.5 | 263.7 | 262.9 | 262.1 | 262.1 |
| 115° | 297.0 | 297.2 | 297.3 | 297.5 | 297.6 | 297.6 | 297.5 | 297.3 | 297.2 | 297.0 | 297.3 |
| 117.5° | 329.1 | 329.5 | 330.0 | 330.5 | 330.9 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.5 |
| 120° | 363.2 | 363.5 | 363.8 | 364.2 | 364.5 | 364.7 | 364.9 | 365.0 | 365.2 | 365.3 | 366.1 |
| 122.5° | 396.0 | 396.5 | 396.9 | 397.4 | 397.9 | 398.3 | 398.8 | 399.3 | 399.7 | 400.2 | 400.5 |
| 125° | 428.8 | 429.4 | 430.0 | 430.6 | 431.2 | 431.9 | 432.5 | 433.1 | 433.7 | 434.3 | 434.7 |
| 127.5° | 461.5 | 462.2 | 462.8 | 463.4 | 464.0 | 464.8 | 465.7 | 466.6 | 467.6 | 468.5 | 468.8 |
| 130° | 493.6 | 494.7 | 495.8 | 496.9 | 497.9 | 498.8 | 499.4 | 500.0 | 500.7 | 501.3 | 501.7 |
| 132.5° | 527.1 | 527.8 | 528.6 | 529.4 | 530.2 | 530.9 | 531.7 | 532.5 | 533.3 | 534.0 | 534.3 |
| 135° | 561.9 | 562.2 | 562.5 | 562.9 | 563.2 | 563.6 | 564.2 | 564.9 | 565.5 | 566.1 | 566.3 |
| 137.5° | 592.6 | 593.1 | 593.5 | 594.0 | 594.5 | 595.1 | 595.9 | 596.6 | 597.4 | 598.2 | 597.7 |
| 140° | 622.6 | 623.7 | 624.7 | 625.8 | 626.9 | 627.5 | 627.7 | 627.8 | 628.0 | 628.2 | 628.0 |
| 142.5° | 653.3 | 654.0 | 654.8 | 655.6 | 656.4 | 656.8 | 657.0 | 657.1 | 657.3 | 657.4 | 657.1 |
| 145° | 682.5 | 683.2 | 683.8 | 684.4 | 685.0 | 685.4 | 685.6 | 685.7 | 685.9 | 686.0 | 685.6 |
| 147.5° | 709.0 | 710.0 | 710.9 | 711.8 | 712.7 | 713.2 | 713.2 | 713.2 | 713.2 | 713.2 | 712.7 |
| 150° | 734.1 | 735.1 | 736.0 | 736.9 | 737.8 | 738.3 | 738.3 | 738.3 | 738.3 | 738.3 | 738.0 |
| 152.5° | 758.5 | 759.3 | 760.1 | 760.9 | 761.6 | 761.9 | 761.5 | 761.2 | 760.9 | 760.6 | 760.5 |
| 155° | 780.1 | 781.2 | 782.3 | 783.4 | 784.5 | 784.7 | 784.1 | 783.5 | 782.9 | 782.2 | 782.1 |
| 157.5° | 800.4 | 801.3 | 802.2 | 803.1 | 804.1 | 804.2 | 803.6 | 803.0 | 802.4 | 801.8 | 801.6 |
| 160° | 819.9 | 820.5 | 821.1 | 821.7 | 822.4 | 822.3 | 821.5 | 820.7 | 820.0 | 819.2 | 819.2 |
| 162.5° | 834.5 | 835.6 | 836.7 | 837.8 | 838.9 | 839.0 | 838.2 | 837.5 | 836.7 | 835.9 | 835.8 |
| 165° | 848.5 | 849.5 | 850.6 | 851.7 | 852.8 | 852.9 | 852.0 | 851.0 | 850.1 | 849.2 | 849.2 |
| 167.5° | 861.0 | 861.9 | 862.9 | 863.8 | 864.7 | 864.7 | 863.8 | 862.9 | 861.9 | 861.0 | 860.9 |
| 170° | 870.1 | 871.2 | 872.2 | 873.3 | 874.4 | 874.4 | 873.3 | 872.2 | 871.2 | 870.1 | 870.1 |
| 172.5° | 877.0 | 878.1 | 879.2 | 880.3 | 881.4 | 881.5 | 880.5 | 879.6 | 878.7 | 877.7 | 877.7 |
| 175° | 881.9 | 883.0 | 884.1 | 885.2 | 886.3 | 886.3 | 885.4 | 884.5 | 883.6 | 882.6 | 882.6 |
| 177.5° | 884.7 | 885.8 | 886.9 | 888.0 | 889.1 | 889.1 | 888.2 | 887.3 | 886.3 | 885.4 | 885.4 |
| 180° | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 |
| 2.5° | 936.4 | 934.0 | 925.1 | 916.1 | 906.0 | 895.8 | 888.3 | 880.8 | 869.6 | 858.4 | 849.3 |
| 5° | 1014.9 | 1003.5 | 984.6 | 965.7 | 940.1 | 914.5 | 897.2 | 880.0 | 856.8 | 833.7 | 815.2 |
| 7.5° | 1077.0 | 1057.5 | 1031.1 | 1004.7 | 971.2 | 937.7 | 906.0 | 874.3 | 838.9 | 803.6 | 774.7 |
| 10° | 1116.6 | 1103.4 | 1072.9 | 1042.5 | 997.6 | 952.7 | 908.4 | 864.1 | 818.6 | 773.1 | 734.9 |
| 12.5° | 1120.5 | 1121.7 | 1093.7 | 1065.6 | 1014.9 | 964.1 | 910.2 | 856.4 | 799.1 | 741.8 | 697.4 |
| 15° | 1086.6 | 1107.5 | 1092.0 | 1076.6 | 1025.4 | 974.2 | 908.0 | 841.8 | 775.8 | 709.7 | 658.4 |
| 17.5° | 1023.6 | 1068.5 | 1070.7 | 1072.9 | 1021.8 | 970.6 | 897.2 | 823.9 | 749.2 | 674.4 | 620.4 |
| 20° | 937.7 | 1003.9 | 1026.6 | 1049.4 | 1007.7 | 966.1 | 887.3 | 808.5 | 724.8 | 641.1 | 584.4 |
| 22.5° | 849.9 | 930.3 | 972.0 | 1013.6 | 982.8 | 951.9 | 868.0 | 784.1 | 695.7 | 607.4 | 549.9 |
| 25° | 750.0 | 837.7 | 901.7 | 965.7 | 946.8 | 927.9 | 845.2 | 762.6 | 668.5 | 574.5 | 515.8 |
| 27.5° | 662.8 | 752.0 | 829.2 | 906.4 | 902.3 | 898.3 | 816.2 | 734.1 | 637.8 | 541.6 | 484.9 |
| 30° | 585.2 | 668.3 | 754.6 | 841.0 | 850.9 | 860.9 | 781.7 | 702.4 | 605.9 | 509.5 | 454.8 |
| 32.5° | 516.6 | 589.1 | 681.7 | 774.3 | 793.8 | 813.3 | 741.8 | 670.3 | 574.9 | 479.4 | 426.8 |
| 35° | 460.3 | 526.1 | 618.7 | 711.4 | 735.7 | 760.1 | 698.0 | 635.8 | 542.8 | 449.7 | 399.6 |
| 37.5° | 410.5 | 465.6 | 556.0 | 646.4 | 676.2 | 706.1 | 650.4 | 594.8 | 507.6 | 420.5 | 374.4 |
| 40° | 369.3 | 413.6 | 496.7 | 579.7 | 614.3 | 648.8 | 602.9 | 557.0 | 474.3 | 391.6 | 349.2 |
| 42.5° | 334.8 | 374.2 | 449.5 | 524.9 | 558.0 | 591.1 | 552.3 | 513.5 | 440.0 | 366.5 | 327.7 |
| 45° | 305.3 | 336.8 | 405.3 | 473.7 | 505.2 | 536.7 | 503.4 | 470.0 | 405.3 | 340.5 | 304.3 |
| 47.5° | 277.7 | 304.7 | 363.2 | 421.7 | 449.7 | 477.8 | 451.8 | 425.8 | 370.9 | 316.1 | 283.4 |
| 50° | 252.9 | 274.6 | 325.8 | 377.0 | 401.4 | 425.8 | 402.8 | 379.9 | 334.8 | 289.7 | 261.2 |
| 52.5° | 231.4 | 249.0 | 291.9 | 334.8 | 355.7 | 376.6 | 356.9 | 337.2 | 301.4 | 265.7 | 240.9 |
| 55° | 210.0 | 225.1 | 262.2 | 299.4 | 313.6 | 327.9 | 312.6 | 297.4 | 268.5 | 239.7 | 218.8 |
| 57.5° | 190.1 | 203.5 | 234.0 | 264.5 | 275.4 | 286.4 | 272.6 | 258.8 | 237.1 | 215.3 | 197.9 |
| 60° | 170.6 | 181.6 | 207.0 | 232.4 | 239.1 | 245.8 | 234.6 | 223.4 | 208.2 | 193.0 | 177.3 |
| 62.5° | 152.6 | 162.5 | 181.4 | 200.3 | 204.8 | 209.2 | 200.7 | 192.2 | 180.6 | 169.0 | 156.8 |
| 65° | 133.9 | 141.4 | 156.8 | 172.3 | 175.1 | 177.9 | 170.4 | 162.9 | 154.2 | 145.4 | 136.5 |
| 67.5° | 116.6 | 121.9 | 134.5 | 147.1 | 147.3 | 147.5 | 141.4 | 135.3 | 130.4 | 125.5 | 118.4 |
| 70° | 99.7 | 104.8 | 113.1 | 121.5 | 121.7 | 121.9 | 117.0 | 112.1 | 108.5 | 104.8 | 99.5 |
| 72.5° | 82.5 | 86.1 | 92.4 | 98.7 | 98.3 | 97.9 | 94.9 | 91.8 | 89.0 | 86.1 | 82.3 |
| 75° | 66.8 | 69.9 | 74.1 | 78.4 | 77.2 | 76.0 | 74.3 | 72.7 | 70.3 | 67.8 | 65.4 |
| 77.5° | 52.6 | 54.4 | 56.9 | 59.3 | 58.5 | 57.7 | 56.3 | 54.8 | 53.0 | 51.2 | 50.2 |
| 80° | 38.6 | 39.4 | 41.0 | 42.7 | 42.3 | 41.8 | 40.2 | 38.6 | 38.2 | 37.8 | 36.4 |
| 82.5° | 26.2 | 27.2 | 27.6 | 28.0 | 27.8 | 27.6 | 26.4 | 25.2 | 24.8 | 24.4 | 24.2 |
| 85° | 15.6 | 15.8 | 16.0 | 16.3 | 15.6 | 15.0 | 14.6 | 14.2 | 14.2 | 14.2 | 14.0 |
| 87.5° | 7.1 | 7.3 | 7.3 | 7.3 | 7.1 | 6.9 | 6.5 | 6.1 | 6.3 | 6.5 | 6.5 |
| 90° | 12.7 | 10.7 | 8.7 | 6.9 | 5.3 | 3.8 | 2.2 | 0.7 | 2.2 | 3.8 | 5.3 |
| 92.5° | 27.4 | 26.5 | 25.6 | 24.6 | 23.7 | 22.8 | 21.8 | 20.9 | 21.8 | 22.8 | 23.7 |
| 95° | 49.1 | 47.9 | 46.6 | 45.5 | 44.4 | 43.3 | 42.2 | 41.1 | 42.2 | 43.3 | 44.4 |
| 97.5° | 73.4 | 72.5 | 71.6 | 70.7 | 70.0 | 69.2 | 68.4 | 67.6 | 68.4 | 69.2 | 70.0 |
| 100° | 100.9 | 100.2 | 99.4 | 98.5 | 97.6 | 96.7 | 95.7 | 94.8 | 95.7 | 96.7 | 97.6 |
| 102.5° | 131.0 | 129.9 | 128.8 | 128.0 | 127.6 | 127.1 | 126.7 | 126.2 | 126.7 | 127.1 | 127.6 |
| 105° | 161.7 | 160.4 | 159.0 | 158.1 | 157.8 | 157.5 | 157.2 | 156.9 | 157.2 | 157.5 | 157.8 |
| 107.5° | 195.4 | 194.7 | 194.1 | 193.7 | 193.6 | 193.4 | 193.3 | 193.1 | 193.3 | 193.4 | 193.6 |
| 110° | 228.8 | 228.4 | 228.1 | 227.8 | 227.5 | 227.2 | 226.9 | 226.6 | 226.9 | 227.2 | 227.5 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 262.1 | 262.1 | 262.1 | 262.1 | 261.9 | 261.8 | 261.6 | 261.4 | 261.6 | 261.8 | 261.9 |
| 115° | 297.6 | 297.9 | 298.2 | 298.2 | 297.7 | 297.2 | 296.8 | 296.3 | 296.8 | 297.2 | 297.7 |
| 117.5° | 331.8 | 332.1 | 332.4 | 332.5 | 332.3 | 332.2 | 332.0 | 331.9 | 332.0 | 332.2 | 332.3 |
| 120° | 366.9 | 367.6 | 368.4 | 368.3 | 367.4 | 366.5 | 365.6 | 364.6 | 365.6 | 366.5 | 367.4 |
| 122.5° | 400.8 | 401.1 | 401.4 | 401.3 | 400.6 | 400.0 | 399.4 | 398.8 | 399.4 | 400.0 | 400.6 |
| 125° | 435.0 | 435.3 | 435.6 | 435.5 | 435.0 | 434.6 | 434.1 | 433.6 | 434.1 | 434.6 | 435.0 |
| 127.5° | 469.1 | 469.4 | 469.7 | 469.4 | 468.5 | 467.6 | 466.6 | 465.7 | 466.6 | 467.6 | 468.5 |
| 130° | 502.2 | 502.7 | 503.1 | 502.7 | 501.5 | 500.3 | 499.0 | 497.8 | 499.0 | 500.3 | 501.5 |
| 132.5° | 534.7 | 535.0 | 535.3 | 534.8 | 533.6 | 532.3 | 531.1 | 529.9 | 531.1 | 532.3 | 533.6 |
| 135° | 566.4 | 566.6 | 566.7 | 566.3 | 565.4 | 564.5 | 563.6 | 562.6 | 563.6 | 564.5 | 565.4 |
| 137.5° | 597.2 | 596.8 | 596.3 | 595.7 | 594.9 | 594.1 | 593.4 | 592.6 | 593.4 | 594.1 | 594.9 |
| 140° | 627.8 | 627.7 | 627.5 | 627.1 | 626.3 | 625.5 | 624.7 | 624.0 | 624.7 | 625.5 | 626.3 |
| 142.5° | 656.8 | 656.5 | 656.2 | 655.7 | 654.9 | 654.1 | 653.3 | 652.6 | 653.3 | 654.1 | 654.9 |
| 145° | 685.1 | 684.6 | 684.2 | 683.8 | 683.5 | 683.2 | 682.8 | 682.5 | 682.8 | 683.2 | 683.5 |
| 147.5° | 712.3 | 711.8 | 711.4 | 710.8 | 710.2 | 709.6 | 709.0 | 708.3 | 709.0 | 709.6 | 710.2 |
| 150° | 737.7 | 737.4 | 737.1 | 736.8 | 736.5 | 736.1 | 735.8 | 735.5 | 735.8 | 736.1 | 736.5 |
| 152.5° | 760.3 | 760.2 | 760.0 | 759.7 | 759.2 | 758.8 | 758.3 | 757.8 | 758.3 | 758.8 | 759.2 |
| 155° | 781.9 | 781.8 | 781.6 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 |
| 157.5° | 801.4 | 801.3 | 801.1 | 801.1 | 801.3 | 801.4 | 801.6 | 801.8 | 801.6 | 801.4 | 801.3 |
| 160° | 819.2 | 819.2 | 819.2 | 819.3 | 819.6 | 820.0 | 820.3 | 820.6 | 820.3 | 820.0 | 819.6 |
| 162.5° | 835.6 | 835.5 | 835.3 | 835.5 | 835.9 | 836.4 | 836.8 | 837.3 | 836.8 | 836.4 | 835.9 |
| 165° | 849.2 | 849.2 | 849.2 | 849.4 | 849.9 | 850.3 | 850.8 | 851.3 | 850.8 | 850.3 | 849.9 |
| 167.5° | 860.7 | 860.5 | 860.4 | 860.6 | 861.2 | 861.9 | 862.5 | 863.1 | 862.5 | 861.9 | 861.2 |
| 170° | 870.1 | 870.1 | 870.1 | 870.4 | 871.0 | 871.6 | 872.2 | 872.9 | 872.2 | 871.6 | 871.0 |
| 172.5° | 877.7 | 877.7 | 877.7 | 878.1 | 878.7 | 879.3 | 879.9 | 880.5 | 879.9 | 879.3 | 878.7 |
| 175° | 882.6 | 882.6 | 882.6 | 882.9 | 883.6 | 884.2 | 884.8 | 885.4 | 884.8 | 884.2 | 883.6 |
| 177.5° | 885.4 | 885.4 | 885.4 | 885.7 | 886.3 | 887.0 | 887.6 | 888.2 | 887.6 | 887.0 | 886.3 |
| 180° | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 | 875.5 |
| 2.5° | 840.2 | 832.2 | 824.3 | 818.2 | 812.1 | 801.8 | 791.4 | 789.0 | 786.5 | 783.1 | 779.6 |
| 5° | 796.7 | 777.2 | 757.7 | 740.2 | 722.7 | 709.1 | 695.5 | 686.6 | 677.7 | 671.2 | 664.7 |
| 7.5° | 745.9 | 716.7 | 687.4 | 666.7 | 646.0 | 626.3 | 606.6 | 600.3 | 594.0 | 585.4 | 576.9 |
| 10° | 696.7 | 664.4 | 632.2 | 605.1 | 578.1 | 558.8 | 539.5 | 531.8 | 524.1 | 513.3 | 502.6 |
| 12.5° | 652.9 | 617.5 | 582.2 | 555.0 | 527.7 | 509.1 | 490.4 | 479.2 | 468.0 | 461.9 | 455.8 |
| 15° | 607.0 | 569.2 | 531.4 | 506.2 | 481.0 | 464.2 | 447.3 | 437.5 | 427.8 | 421.9 | 416.0 |
| 17.5° | 566.3 | 529.0 | 491.6 | 467.4 | 443.2 | 427.8 | 412.4 | 403.8 | 395.3 | 390.8 | 386.4 |
| 20° | 527.7 | 491.2 | 454.6 | 431.0 | 407.5 | 394.9 | 382.3 | 376.8 | 371.3 | 367.7 | 364.0 |
| 22.5° | 492.4 | 456.4 | 420.5 | 400.4 | 380.3 | 370.1 | 360.0 | 356.1 | 352.2 | 349.2 | 346.1 |
| 25° | 457.0 | 425.0 | 392.9 | 375.8 | 358.7 | 350.4 | 342.1 | 338.2 | 334.4 | 331.3 | 328.3 |
| 27.5° | 428.2 | 397.5 | 366.9 | 352.2 | 337.6 | 331.1 | 324.6 | 321.6 | 318.5 | 315.7 | 312.8 |
| 30° | 400.2 | 372.7 | 345.3 | 332.7 | 320.1 | 314.2 | 308.4 | 305.3 | 302.3 | 299.6 | 297.0 |
| 32.5° | 374.2 | 350.6 | 327.0 | 315.5 | 303.9 | 299.0 | 294.1 | 290.5 | 286.8 | 284.8 | 282.8 |
| 35° | 349.4 | 328.3 | 307.1 | 297.6 | 288.0 | 283.2 | 278.3 | 275.2 | 272.2 | 270.6 | 268.9 |
| 37.5° | 328.3 | 309.4 | 290.5 | 281.3 | 272.2 | 267.5 | 262.9 | 260.2 | 257.6 | 257.0 | 256.4 |
| 40° | 306.7 | 290.5 | 274.2 | 265.3 | 256.4 | 252.3 | 248.2 | 246.6 | 245.0 | 244.6 | 244.2 |
| 42.5° | 288.9 | 273.0 | 257.2 | 249.0 | 240.9 | 237.5 | 234.0 | 233.2 | 232.4 | 233.0 | 233.6 |
| 45° | 268.1 | 254.9 | 241.7 | 234.2 | 226.7 | 223.9 | 221.0 | 220.4 | 219.8 | 221.0 | 222.2 |
| 47.5° | 250.7 | 238.5 | 226.3 | 219.2 | 212.1 | 210.0 | 208.0 | 207.8 | 207.6 | 209.2 | 210.9 |
| 50° | 232.8 | 221.0 | 209.2 | 203.5 | 197.9 | 196.0 | 194.2 | 194.8 | 195.4 | 198.1 | 200.7 |
| 52.5° | 216.1 | 205.2 | 194.2 | 188.9 | 183.6 | 182.4 | 181.2 | 182.6 | 184.0 | 186.9 | 189.7 |
| 55° | 197.9 | 187.9 | 177.9 | 173.9 | 169.8 | 168.6 | 167.4 | 170.2 | 173.1 | 175.7 | 178.4 |
| 57.5° | 180.4 | 171.6 | 162.9 | 159.3 | 155.6 | 155.4 | 155.2 | 157.8 | 160.5 | 163.3 | 166.2 |
| 60° | 161.7 | 154.4 | 147.1 | 144.2 | 141.4 | 141.8 | 142.2 | 145.2 | 148.3 | 150.5 | 152.8 |
| 62.5° | 144.6 | 138.5 | 132.4 | 129.8 | 127.2 | 128.2 | 129.2 | 132.2 | 135.3 | 137.9 | 140.6 |
| 65° | 127.6 | 122.5 | 117.4 | 115.6 | 113.8 | 115.2 | 116.6 | 119.2 | 121.9 | 123.7 | 125.5 |
| 67.5° | 111.3 | 107.1 | 102.8 | 101.4 | 99.9 | 101.4 | 102.8 | 105.4 | 108.1 | 109.9 | 111.7 |
| 70° | 94.3 | 90.8 | 87.3 | 86.3 | 85.3 | 86.9 | 88.6 | 90.8 | 93.0 | 94.9 | 96.7 |
| 72.5° | 78.4 | 75.8 | 73.1 | 72.9 | 72.7 | 74.1 | 75.6 | 77.8 | 80.0 | 81.3 | 82.5 |
| 75° | 63.0 | 61.5 | 60.1 | 59.9 | 59.7 | 61.1 | 62.6 | 63.8 | 65.0 | 66.0 | 67.0 |
| 77.5° | 49.2 | 47.9 | 46.7 | 46.9 | 47.1 | 48.1 | 49.2 | 50.4 | 51.6 | 52.2 | 52.8 |
| 80° | 34.9 | 34.5 | 34.1 | 34.5 | 34.9 | 35.8 | 36.6 | 37.4 | 38.2 | 38.6 | 39.0 |
| 82.5° | 24.0 | 23.6 | 23.2 | 23.8 | 24.4 | 25.0 | 25.6 | 26.2 | 26.8 | 27.0 | 27.2 |
| 85° | 13.8 | 14.4 | 15.0 | 15.0 | 15.0 | 15.2 | 15.4 | 15.6 | 15.8 | 15.6 | 15.4 |
| 87.5° | 6.5 | 6.7 | 6.9 | 6.9 | 6.9 | 7.1 | 7.3 | 7.3 | 7.3 | 7.1 | 6.9 |
| 90° | 6.9 | 8.7 | 10.7 | 12.7 | 14.7 | 16.7 | 17.4 | 18.0 | 18.6 | 19.2 | 19.7 |
| 92.5° | 24.6 | 25.6 | 26.5 | 27.4 | 28.4 | 29.3 | 29.7 | 30.2 | 30.7 | 31.1 | 31.2 |
| 95° | 45.5 | 46.6 | 47.9 | 49.1 | 50.4 | 51.6 | 52.2 | 52.8 | 53.5 | 54.1 | 54.4 |
| 97.5° | 70.7 | 71.6 | 72.5 | 73.4 | 74.4 | 75.3 | 76.1 | 76.8 | 77.6 | 78.4 | 78.7 |
| 100° | 98.5 | 99.4 | 100.2 | 100.9 | 101.7 | 102.5 | 102.9 | 103.4 | 103.9 | 104.3 | 104.7 |
| 102.5° | 128.0 | 128.8 | 129.9 | 131.0 | 132.1 | 133.2 | 133.6 | 134.1 | 134.6 | 135.0 | 135.2 |
| 105° | 158.1 | 159.0 | 160.4 | 161.7 | 163.1 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.7 |
| 107.5° | 193.7 | 194.1 | 194.7 | 195.4 | 196.0 | 196.6 | 197.1 | 197.5 | 198.0 | 198.5 | 198.6 |
| 110° | 227.8 | 228.1 | 228.4 | 228.8 | 229.1 | 229.4 | 230.0 | 230.6 | 231.2 | 231.9 | 232.0 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 262.1 | 262.1 | 262.1 | 262.1 | 262.1 | 262.1 | 262.9 | 263.7 | 264.5 | 265.2 | 265.6 |
| 115° | 298.2 | 298.2 | 297.9 | 297.6 | 297.3 | 297.0 | 297.2 | 297.3 | 297.5 | 297.6 | 297.6 |
| 117.5° | 332.5 | 332.4 | 332.1 | 331.8 | 331.5 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 330.9 |
| 120° | 368.3 | 368.4 | 367.6 | 366.9 | 366.1 | 365.3 | 365.2 | 365.0 | 364.9 | 364.7 | 364.5 |
| 122.5° | 401.3 | 401.4 | 401.1 | 400.8 | 400.5 | 400.2 | 399.7 | 399.3 | 398.8 | 398.3 | 397.9 |
| 125° | 435.5 | 435.6 | 435.3 | 435.0 | 434.7 | 434.3 | 433.7 | 433.1 | 432.5 | 431.9 | 431.2 |
| 127.5° | 469.4 | 469.7 | 469.4 | 469.1 | 468.8 | 468.5 | 467.6 | 466.6 | 465.7 | 464.8 | 464.0 |
| 130° | 502.7 | 503.1 | 502.7 | 502.2 | 501.7 | 501.3 | 500.7 | 500.0 | 499.4 | 498.8 | 497.9 |
| 132.5° | 534.8 | 535.3 | 535.0 | 534.7 | 534.3 | 534.0 | 533.3 | 532.5 | 531.7 | 530.9 | 530.2 |
| 135° | 566.3 | 566.7 | 566.6 | 566.4 | 566.3 | 566.1 | 565.5 | 564.9 | 564.2 | 563.6 | 563.2 |
| 137.5° | 595.7 | 596.3 | 596.8 | 597.2 | 597.7 | 598.2 | 597.4 | 596.6 | 595.9 | 595.1 | 594.5 |
| 140° | 627.1 | 627.5 | 627.7 | 627.8 | 628.0 | 628.2 | 628.0 | 627.8 | 627.7 | 627.5 | 626.9 |
| 142.5° | 655.7 | 656.2 | 656.5 | 656.8 | 657.1 | 657.4 | 657.3 | 657.1 | 657.0 | 656.8 | 656.4 |
| 145° | 683.8 | 684.2 | 684.6 | 685.1 | 685.6 | 686.0 | 685.9 | 685.7 | 685.6 | 685.4 | 685.0 |
| 147.5° | 710.8 | 711.4 | 711.8 | 712.3 | 712.7 | 713.2 | 713.2 | 713.2 | 713.2 | 713.2 | 712.7 |
| 150° | 736.8 | 737.1 | 737.4 | 737.7 | 738.0 | 738.3 | 738.3 | 738.3 | 738.3 | 738.3 | 737.8 |
| 152.5° | 759.7 | 760.0 | 760.2 | 760.3 | 760.5 | 760.6 | 760.9 | 761.2 | 761.5 | 761.9 | 761.6 |
| 155° | 781.5 | 781.6 | 781.8 | 781.9 | 782.1 | 782.2 | 782.9 | 783.5 | 784.1 | 784.7 | 784.5 |
| 157.5° | 801.1 | 801.1 | 801.3 | 801.4 | 801.6 | 801.8 | 802.4 | 803.0 | 803.6 | 804.2 | 804.1 |
| 160° | 819.3 | 819.2 | 819.2 | 819.2 | 819.2 | 819.2 | 820.0 | 820.7 | 821.5 | 822.3 | 822.4 |
| 162.5° | 835.5 | 835.3 | 835.5 | 835.6 | 835.8 | 835.9 | 836.7 | 837.5 | 838.2 | 839.0 | 838.9 |
| 165° | 849.4 | 849.2 | 849.2 | 849.2 | 849.2 | 849.2 | 850.1 | 851.0 | 852.0 | 852.9 | 852.8 |
| 167.5° | 860.6 | 860.4 | 860.5 | 860.7 | 860.9 | 861.0 | 861.9 | 862.9 | 863.8 | 864.7 | 864.7 |
| 170° | 870.4 | 870.1 | 870.1 | 870.1 | 870.1 | 870.1 | 871.2 | 872.2 | 873.3 | 874.4 | 874.4 |
| 172.5° | 878.1 | 877.7 | 877.7 | 877.7 | 877.7 | 877.7 | 878.7 | 879.6 | 880.5 | 881.5 | 881.4 |
| 175° | 882.9 | 882.6 | 882.6 | 882.6 | 882.6 | 882.6 | 883.6 | 884.5 | 885.4 | 886.3 | 886.3 |
| 177.5° | 885.7 | 885.4 | 885.4 | 885.4 | 885.4 | 885.4 | 886.3 | 887.3 | 888.2 | 889.1 | 889.1 |
| 180° | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 0° | 875.5 | 875.5 | 875.5 | 875.5 |
| 2.5° | 778.2 | 776.8 | 771.1 | 765.4 |
| 5° | 659.8 | 654.9 | 653.3 | 651.7 |
| 7.5° | 576.5 | 576.1 | 567.6 | 559.0 |
| 10° | 503.2 | 503.8 | 496.1 | 488.3 |
| 12.5° | 450.8 | 445.7 | 445.1 | 444.5 |
| 15° | 411.3 | 406.7 | 405.9 | 405.0 |
| 17.5° | 383.5 | 380.7 | 379.9 | 379.0 |
| 20° | 362.4 | 360.8 | 359.3 | 357.9 |
| 22.5° | 344.1 | 342.1 | 340.9 | 339.6 |
| 25° | 326.4 | 324.6 | 324.2 | 323.8 |
| 27.5° | 310.6 | 308.4 | 308.4 | 308.4 |
| 30° | 295.6 | 294.1 | 293.5 | 292.9 |
| 32.5° | 281.5 | 280.3 | 280.3 | 280.3 |
| 35° | 268.3 | 267.7 | 266.9 | 266.1 |
| 37.5° | 256.4 | 256.4 | 255.9 | 255.5 |
| 40° | 244.8 | 245.4 | 245.4 | 245.4 |
| 42.5° | 234.2 | 234.8 | 234.8 | 234.8 |
| 45° | 223.2 | 224.3 | 224.7 | 225.1 |
| 47.5° | 212.5 | 214.1 | 214.5 | 214.9 |
| 50° | 201.9 | 203.1 | 203.3 | 203.5 |
| 52.5° | 191.1 | 192.6 | 193.6 | 194.6 |
| 55° | 179.8 | 181.2 | 181.8 | 182.4 |
| 57.5° | 167.6 | 169.0 | 169.2 | 169.4 |
| 60° | 154.2 | 155.6 | 156.0 | 156.4 |
| 62.5° | 141.4 | 142.2 | 142.6 | 143.0 |
| 65° | 126.8 | 128.0 | 128.8 | 129.6 |
| 67.5° | 112.7 | 113.8 | 113.8 | 113.8 |
| 70° | 97.1 | 97.5 | 98.1 | 98.7 |
| 72.5° | 82.7 | 82.9 | 82.9 | 82.9 |
| 75° | 67.4 | 67.8 | 68.0 | 68.3 |
| 77.5° | 53.0 | 53.2 | 53.2 | 53.2 |
| 80° | 38.8 | 38.6 | 38.6 | 38.6 |
| 82.5° | 26.6 | 26.0 | 26.0 | 26.0 |
| 85° | 15.2 | 15.0 | 15.2 | 15.4 |
| 87.5° | 6.9 | 6.9 | 6.9 | 6.9 |
| 90° | 20.0 | 20.3 | 20.6 | 20.9 |
| 92.5° | 30.9 | 30.6 | 30.3 | 30.0 |
| 95° | 54.4 | 54.4 | 54.4 | 54.4 |
| 97.5° | 78.5 | 78.4 | 78.2 | 78.1 |
| 100° | 105.0 | 105.4 | 105.7 | 106.0 |
| 102.5° | 135.0 | 134.9 | 134.7 | 134.6 |
| 105° | 165.0 | 165.3 | 165.6 | 165.9 |
| 107.5° | 198.5 | 198.3 | 198.2 | 198.0 |
| 110° | 231.7 | 231.4 | 231.1 | 230.8 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 265.6 | 265.6 | 265.6 | 265.6 |
| 115° | 297.5 | 297.3 | 297.2 | 297.0 |
| 117.5° | 330.5 | 330.0 | 329.5 | 329.1 |
| 120° | 364.2 | 363.8 | 363.5 | 363.2 |
| 122.5° | 397.4 | 396.9 | 396.5 | 396.0 |
| 125° | 430.6 | 430.0 | 429.4 | 428.8 |
| 127.5° | 463.4 | 462.8 | 462.2 | 461.5 |
| 130° | 496.9 | 495.8 | 494.7 | 493.6 |
| 132.5° | 529.4 | 528.6 | 527.8 | 527.1 |
| 135° | 562.9 | 562.5 | 562.2 | 561.9 |
| 137.5° | 594.0 | 593.5 | 593.1 | 592.6 |
| 140° | 625.8 | 624.7 | 623.7 | 622.6 |
| 142.5° | 655.6 | 654.8 | 654.0 | 653.3 |
| 145° | 684.4 | 683.8 | 683.2 | 682.5 |
| 147.5° | 711.8 | 710.9 | 710.0 | 709.0 |
| 150° | 736.9 | 736.0 | 735.1 | 734.1 |
| 152.5° | 760.9 | 760.1 | 759.3 | 758.5 |
| 155° | 783.4 | 782.3 | 781.2 | 780.1 |
| 157.5° | 803.1 | 802.2 | 801.3 | 800.4 |
| 160° | 821.7 | 821.1 | 820.5 | 819.9 |
| 162.5° | 837.8 | 836.7 | 835.6 | 834.5 |
| 165° | 851.7 | 850.6 | 849.5 | 848.5 |
| 167.5° | 863.8 | 862.9 | 861.9 | 861.0 |
| 170° | 873.3 | 872.2 | 871.2 | 870.1 |
| 172.5° | 880.3 | 879.2 | 878.1 | 877.0 |
| 175° | 885.2 | 884.1 | 883.0 | 881.9 |
| 177.5° | 888.0 | 886.9 | 885.8 | 884.7 |
| 180° | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P831445

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-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 | 9.94 | 10.67 | 11.01 | 11.74 | 13.19 | 12.18 | 12.91 | 13.25 | 13.97 | 15.43 |
| | 3H | 11.58 | 12.23 | 12.66 | 13.31 | 14.78 | 13.59 | 14.24 | 14.67 | 15.32 | 16.80 |
| | 4H | 12.15 | 12.77 | 13.24 | 13.85 | 15.33 | 14.04 | 14.66 | 15.13 | 15.73 | 17.21 |
| | 6H | 12.51 | 13.08 | 13.62 | 14.16 | 15.66 | 14.31 | 14.87 | 15.41 | 15.96 | 17.45 |
| | 8H | 12.61 | 13.15 | 13.71 | 14.25 | 15.73 | 14.37 | 14.91 | 15.47 | 16.00 | 17.49 |
| | 12H | 12.65 | 13.16 | 13.76 | 14.25 | 15.76 | 14.38 | 14.89 | 15.49 | 15.98 | 17.49 |
| 4H | 2H | 10.50 | 11.12 | 11.60 | 12.20 | 13.68 | 12.33 | 12.94 | 13.43 | 14.02 | 15.50 |
| | 3H | 12.32 | 12.83 | 13.42 | 13.94 | 15.43 | 13.93 | 14.45 | 15.04 | 15.55 | 17.05 |
| | 4H | 13.01 | 13.48 | 14.12 | 14.58 | 16.09 | 14.51 | 14.98 | 15.62 | 16.08 | 17.59 |
| | 6H | 13.48 | 13.88 | 14.60 | 15.00 | 16.51 | 14.91 | 15.31 | 16.03 | 16.43 | 17.94 |
| | 8H | 13.61 | 13.99 | 14.73 | 15.10 | 16.62 | 15.02 | 15.40 | 16.14 | 16.51 | 18.03 |
| | 12H | 13.67 | 14.02 | 14.81 | 15.14 | 16.67 | 15.06 | 15.40 | 16.19 | 16.52 | 18.05 |
| 8H | 4H | 13.27 | 13.65 | 14.38 | 14.76 | 16.28 | 14.61 | 14.99 | 15.72 | 16.10 | 17.62 |
| | 6H | 13.85 | 14.16 | 14.99 | 15.32 | 16.83 | 15.11 | 15.42 | 16.24 | 16.57 | 18.09 |
| | 8H | 14.06 | 14.33 | 15.20 | 15.46 | 17.00 | 15.29 | 15.56 | 16.43 | 16.69 | 18.23 |
| | 12H | 14.18 | 14.42 | 15.32 | 15.55 | 17.12 | 15.38 | 15.62 | 16.53 | 16.75 | 18.32 |
| 12H | 4H | 13.26 | 13.60 | 14.40 | 14.73 | 16.25 | 14.58 | 14.92 | 15.71 | 16.04 | 17.57 |
| | 6H | 13.90 | 14.17 | 15.05 | 15.31 | 16.85 | 15.12 | 15.39 | 16.26 | 16.53 | 18.06 |
| | 8H | 14.13 | 14.37 | 15.28 | 15.50 | 17.07 | 15.31 | 15.55 | 16.46 | 16.68 | 18.26 |