

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: P831255

Luminaire Tested: S123DIP-S1165D365U940-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831255
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D365U940-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

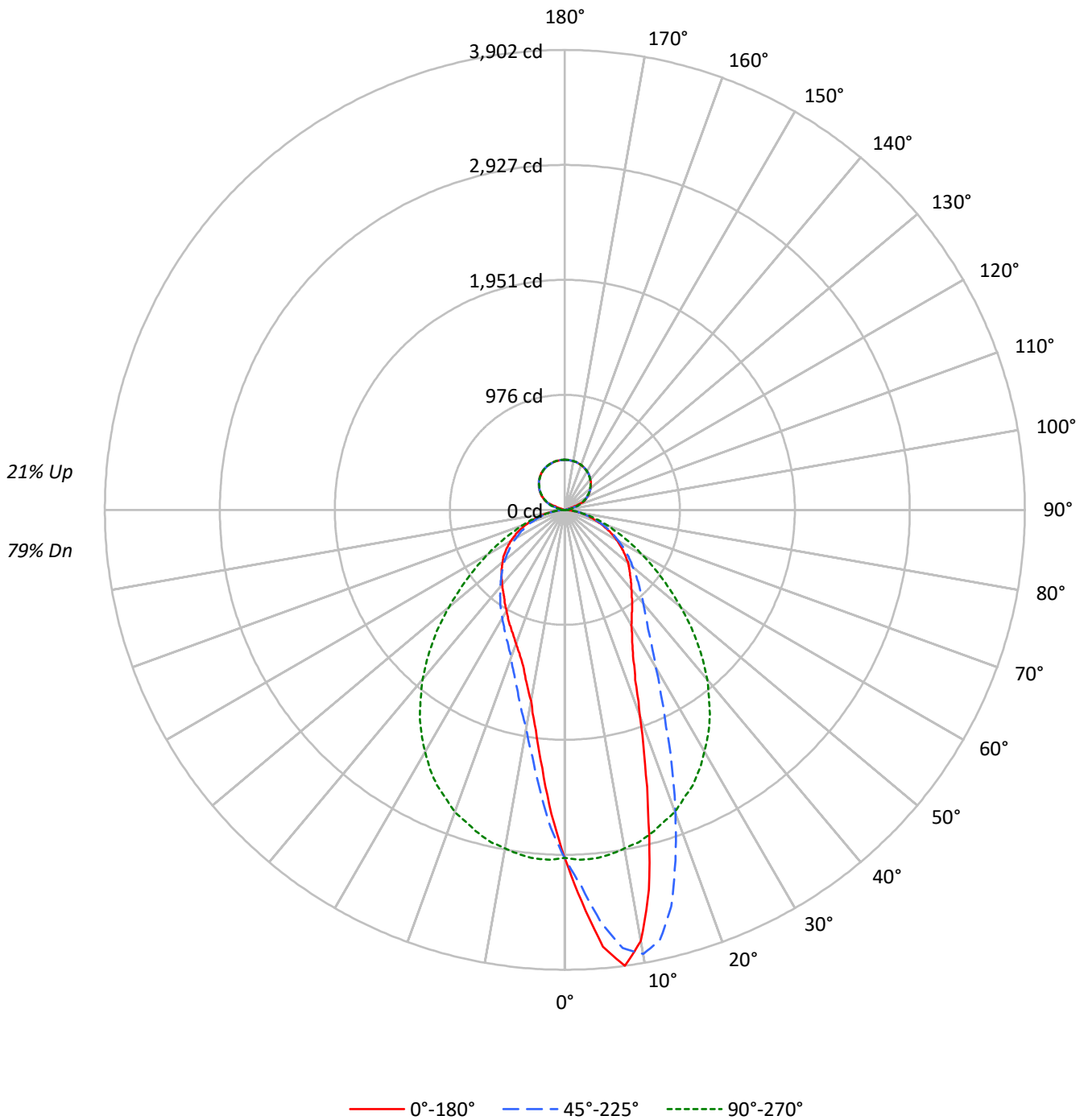
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6041.7 lumens
Efficiency: N/A
Efficacy: 115.7 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-Direct

Input Watts (W): 52.2
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: P831255
CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 99 | 99 | 99 | 90 | 90 | 90 | 82 | 82 | 82 | 79 | | | | |
| 1 | 105 | 101 | 97 | 94 | 100 | 96 | 93 | 90 | 88 | 86 | 83 | 81 | 79 | 77 | 74 | 73 | 71 | 68 | | | | |
| 2 | 96 | 89 | 83 | 78 | 92 | 85 | 80 | 75 | 79 | 74 | 71 | 72 | 69 | 66 | 66 | 64 | 61 | 58 | | | | |
| 3 | 89 | 79 | 72 | 66 | 84 | 76 | 70 | 64 | 70 | 65 | 61 | 65 | 60 | 57 | 60 | 56 | 53 | 50 | | | | |
| 4 | 82 | 71 | 63 | 57 | 78 | 68 | 61 | 56 | 63 | 57 | 53 | 59 | 54 | 50 | 54 | 50 | 47 | 44 | | | | |
| 5 | 76 | 64 | 56 | 50 | 72 | 62 | 54 | 49 | 57 | 51 | 46 | 53 | 48 | 44 | 49 | 45 | 42 | 39 | | | | |
| 6 | 70 | 58 | 50 | 44 | 67 | 56 | 49 | 43 | 52 | 46 | 41 | 49 | 43 | 39 | 45 | 41 | 37 | 35 | | | | |
| 7 | 65 | 53 | 45 | 40 | 63 | 51 | 44 | 39 | 48 | 42 | 37 | 45 | 40 | 36 | 42 | 37 | 34 | 32 | | | | |
| 8 | 61 | 49 | 41 | 36 | 59 | 47 | 40 | 35 | 44 | 38 | 34 | 42 | 36 | 32 | 39 | 34 | 31 | 29 | | | | |
| 9 | 57 | 45 | 38 | 33 | 55 | 44 | 37 | 32 | 41 | 35 | 31 | 39 | 33 | 30 | 36 | 32 | 28 | 26 | | | | |
| 10 | 54 | 42 | 35 | 30 | 52 | 41 | 34 | 29 | 38 | 32 | 28 | 36 | 31 | 27 | 34 | 29 | 26 | 24 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 31792 | 31792 | 31792 | 31792 | 31792 |
| 5° | 40207 | 37948 | 32076 | 25849 | 23754 |
| 10° | 40596 | 41825 | 31863 | 20605 | 18006 |
| 15° | 30577 | 38832 | 31646 | 17450 | 15228 |
| 20° | 21305 | 31423 | 31242 | 15260 | 13832 |
| 25° | 16245 | 24164 | 30553 | 14039 | 12973 |
| 30° | 14054 | 19198 | 29453 | 13176 | 12282 |
| 35° | 13039 | 16209 | 28185 | 12553 | 11796 |
| 40° | 12344 | 14540 | 26402 | 11959 | 11632 |
| 45° | 11934 | 13457 | 24138 | 11496 | 11558 |
| 50° | 11729 | 12599 | 21460 | 11074 | 11499 |
| 55° | 11292 | 11973 | 18828 | 10674 | 11549 |
| 60° | 10887 | 11300 | 16228 | 10297 | 11360 |
| 65° | 10229 | 10664 | 13998 | 9897 | 11135 |
| 70° | 9448 | 9857 | 11906 | 9231 | 10480 |
| 75° | 8551 | 8833 | 10202 | 8580 | 9578 |
| 80° | 7054 | 7730 | 8071 | 7476 | 8071 |
| 85° | 5582 | 6262 | 5928 | 6348 | 6434 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 27560 cd/sqm



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 279.2 | 4.6 |
| 10°-20° | 694.7 | 11.5 |
| 20°-30° | 822.5 | 13.6 |
| 30°-40° | 827.0 | 13.7 |
| 40°-50° | 758.8 | 12.6 |
| 50°-60° | 626.3 | 10.4 |
| 60°-70° | 443.0 | 7.3 |
| 70°-80° | 236.5 | 3.9 |
| 80°-90° | 60.9 | 1.0 |
| 90°-100° | 15.0 | 0.2 |
| 100°-110° | 72.3 | 1.2 |
| 110°-120° | 177.2 | 2.9 |
| 120°-130° | 224.9 | 3.7 |
| 130°-140° | 240.3 | 4.0 |
| 140°-150° | 224.7 | 3.7 |
| 150°-160° | 181.3 | 3.0 |
| 160°-170° | 117.0 | 1.9 |
| 170°-180° | 40.3 | 0.7 |
| 0°-30° | 1796.4 | 29.7 |
| 0°-40° | 2623.4 | 43.4 |
| 0°-60° | 4008.4 | 66.3 |
| 0°-90° | 4748.8 | 78.6 |
| 90°-120° | 264.4 | 4.4 |
| 90°-150° | 954.4 | 15.8 |
| 90°-180° | 1293.0 | 21.4 |
| 0°-180° | 6041.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2954 | 2954 | 2954 | 2954 | 2954 | |
| 5° | 3721 | 3512 | 2969 | 2392 | 2198 | 355 |
| 15° | 2744 | 3485 | 2840 | 1566 | 1366 | 758 |
| 25° | 1368 | 2035 | 2572 | 1182 | 1092 | 646 |
| 35° | 992 | 1234 | 2145 | 955 | 898 | 624 |
| 45° | 784 | 884 | 1586 | 755 | 759 | 607 |
| 55° | 602 | 638 | 1003 | 569 | 615 | 538 |
| 65° | 402 | 419 | 550 | 389 | 437 | 399 |
| 75° | 206 | 212 | 245 | 206 | 230 | 216 |
| 85° | 45 | 51 | 48 | 51 | 52 | 50 |
| 90° | 10 | 8 | 0 | 8 | 10 | 7 |
| 95° | 12 | 10 | 19 | 10 | 12 | 10 |
| 105° | 14 | 69 | 94 | 69 | 14 | 29 |
| 115° | 185 | 181 | 176 | 181 | 185 | 174 |
| 125° | 253 | 252 | 248 | 252 | 253 | 226 |
| 135° | 312 | 312 | 309 | 312 | 312 | 241 |
| 145° | 360 | 360 | 357 | 360 | 360 | 225 |
| 155° | 392 | 393 | 393 | 393 | 392 | 181 |
| 165° | 413 | 413 | 414 | 413 | 413 | 117 |
| 175° | 423 | 423 | 424 | 423 | 423 | 40 |
| 180° | 424 | 424 | 424 | 424 | 424 | |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 |
| 2.5° | 3329.1 | 3325.7 | 3322.2 | 3305.1 | 3288.0 | 3279.8 | 3271.5 | 3246.9 | 3222.2 | 3194.8 | 3167.4 |
| 5° | 3721.1 | 3730.7 | 3740.3 | 3729.3 | 3718.3 | 3684.8 | 3651.2 | 3606.6 | 3562.1 | 3512.1 | 3462.0 |
| 7.5° | 3902.0 | 3907.5 | 3913.0 | 3906.1 | 3899.2 | 3890.3 | 3881.4 | 3841.7 | 3801.9 | 3750.5 | 3699.1 |
| 10° | 3714.2 | 3726.6 | 3738.9 | 3765.6 | 3792.3 | 3822.5 | 3852.6 | 3847.2 | 3841.7 | 3826.6 | 3811.5 |
| 12.5° | 3301.7 | 3316.8 | 3331.8 | 3385.3 | 3438.7 | 3507.3 | 3575.8 | 3634.7 | 3693.7 | 3734.8 | 3775.9 |
| 15° | 2743.9 | 2785.7 | 2827.5 | 2876.1 | 2924.8 | 3025.5 | 3126.3 | 3250.3 | 3374.3 | 3484.7 | 3595.0 |
| 17.5° | 2260.1 | 2275.8 | 2291.6 | 2343.7 | 2395.7 | 2522.5 | 2649.3 | 2792.5 | 2935.7 | 3118.7 | 3301.7 |
| 20° | 1859.9 | 1874.2 | 1888.6 | 1957.2 | 2025.7 | 2125.1 | 2224.4 | 2385.5 | 2546.5 | 2743.2 | 2939.9 |
| 22.5° | 1562.4 | 1585.1 | 1607.7 | 1646.0 | 1684.4 | 1779.7 | 1874.9 | 2018.2 | 2161.4 | 2378.6 | 2595.8 |
| 25° | 1367.8 | 1384.3 | 1400.7 | 1424.0 | 1447.3 | 1523.4 | 1599.4 | 1717.3 | 1835.2 | 2034.6 | 2234.0 |
| 27.5° | 1234.9 | 1241.7 | 1248.6 | 1271.9 | 1295.2 | 1344.5 | 1393.9 | 1495.3 | 1596.7 | 1766.0 | 1935.2 |
| 30° | 1130.7 | 1135.5 | 1140.3 | 1160.9 | 1181.4 | 1215.0 | 1248.6 | 1321.9 | 1395.2 | 1544.6 | 1694.0 |
| 32.5° | 1058.1 | 1061.5 | 1064.9 | 1080.7 | 1096.4 | 1120.4 | 1144.4 | 1197.9 | 1251.3 | 1374.7 | 1498.0 |
| 35° | 992.3 | 994.3 | 996.4 | 1008.0 | 1019.7 | 1037.5 | 1055.3 | 1095.8 | 1136.2 | 1233.5 | 1330.8 |
| 37.5° | 934.7 | 937.5 | 940.2 | 947.1 | 953.9 | 969.7 | 985.4 | 1017.6 | 1049.9 | 1124.5 | 1199.2 |
| 40° | 878.5 | 883.3 | 888.1 | 892.9 | 897.7 | 910.7 | 923.8 | 948.4 | 973.1 | 1034.8 | 1096.4 |
| 42.5° | 830.6 | 835.4 | 840.2 | 842.2 | 844.3 | 851.8 | 859.3 | 882.0 | 904.6 | 950.5 | 996.4 |
| 45° | 784.0 | 786.0 | 788.1 | 790.1 | 792.2 | 798.4 | 804.5 | 824.4 | 844.3 | 884.0 | 923.8 |
| 47.5° | 741.5 | 741.5 | 741.5 | 742.8 | 744.2 | 749.7 | 755.2 | 769.6 | 784.0 | 814.8 | 845.6 |
| 50° | 700.4 | 700.4 | 700.4 | 698.3 | 696.2 | 699.7 | 703.1 | 714.1 | 725.0 | 752.4 | 779.8 |
| 52.5° | 651.0 | 651.0 | 651.0 | 651.7 | 652.4 | 652.4 | 652.4 | 662.0 | 671.6 | 696.2 | 720.9 |
| 55° | 601.7 | 604.4 | 607.2 | 605.1 | 603.0 | 604.4 | 605.8 | 612.0 | 618.1 | 638.0 | 657.9 |
| 57.5° | 552.3 | 553.7 | 555.1 | 554.4 | 553.7 | 554.4 | 555.1 | 560.6 | 566.0 | 581.1 | 596.2 |
| 60° | 505.7 | 505.7 | 505.7 | 504.4 | 503.0 | 504.4 | 505.7 | 508.5 | 511.2 | 524.9 | 538.6 |
| 62.5° | 453.7 | 454.3 | 455.0 | 455.7 | 456.4 | 455.0 | 453.7 | 457.1 | 460.5 | 470.8 | 481.1 |
| 65° | 401.6 | 402.3 | 402.9 | 405.0 | 407.1 | 405.7 | 404.3 | 407.7 | 411.2 | 418.7 | 426.2 |
| 67.5° | 355.0 | 353.6 | 352.2 | 352.9 | 353.6 | 355.7 | 357.7 | 358.4 | 359.1 | 367.3 | 375.5 |
| 70° | 300.2 | 301.5 | 302.9 | 302.2 | 301.5 | 302.2 | 302.9 | 305.0 | 307.0 | 313.2 | 319.3 |
| 72.5° | 250.8 | 251.5 | 252.2 | 252.2 | 252.2 | 253.6 | 254.9 | 257.0 | 259.0 | 262.5 | 265.9 |
| 75° | 205.6 | 205.6 | 205.6 | 207.0 | 208.3 | 209.0 | 209.7 | 209.7 | 209.7 | 212.4 | 215.2 |
| 77.5° | 156.2 | 159.7 | 163.1 | 162.4 | 161.7 | 163.1 | 164.5 | 166.5 | 168.6 | 169.9 | 171.3 |
| 80° | 113.8 | 113.8 | 113.8 | 114.4 | 115.1 | 117.2 | 119.2 | 120.6 | 122.0 | 124.7 | 127.5 |
| 82.5° | 72.6 | 73.3 | 74.0 | 76.1 | 78.1 | 79.5 | 80.9 | 82.9 | 85.0 | 85.0 | 85.0 |
| 85° | 45.2 | 43.9 | 42.5 | 43.9 | 45.2 | 46.6 | 48.0 | 48.7 | 49.3 | 50.7 | 52.1 |
| 87.5° | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 22.6 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 |
| 90° | 9.5 | 9.3 | 9.2 | 9.0 | 8.9 | 8.7 | 8.4 | 8.1 | 7.8 | 7.6 | 6.7 |
| 92.5° | 10.7 | 10.6 | 10.6 | 10.5 | 10.4 | 10.2 | 9.7 | 9.2 | 8.7 | 8.2 | 7.6 |
| 95° | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 11.7 | 11.2 | 10.7 | 10.3 | 9.8 | 9.0 |
| 97.5° | 12.9 | 12.8 | 12.8 | 12.7 | 12.6 | 12.3 | 11.8 | 11.2 | 10.6 | 10.1 | 13.7 |
| 100° | 13.2 | 13.2 | 13.1 | 13.0 | 13.0 | 12.6 | 12.1 | 11.5 | 11.0 | 10.4 | 21.3 |
| 102.5° | 13.5 | 13.4 | 13.3 | 13.1 | 13.0 | 14.1 | 16.4 | 18.7 | 21.0 | 23.3 | 35.5 |
| 105° | 13.9 | 13.7 | 13.6 | 13.4 | 13.3 | 19.4 | 31.8 | 44.2 | 56.6 | 69.0 | 75.3 |
| 107.5° | 32.8 | 41.9 | 51.1 | 60.3 | 69.5 | 79.4 | 90.2 | 101.0 | 111.8 | 122.6 | 121.5 |
| 110° | 86.7 | 96.7 | 106.7 | 116.7 | 126.7 | 132.9 | 135.2 | 137.5 | 139.8 | 142.1 | 141.3 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 164.2 | 164.3 | 164.4 | 164.6 | 164.7 | 164.5 | 163.9 | 163.2 | 162.6 | 162.0 | 161.2 |
| 115° | 185.3 | 185.0 | 184.7 | 184.4 | 184.2 | 183.7 | 183.0 | 182.3 | 181.6 | 180.9 | 180.2 |
| 117.5° | 202.3 | 202.2 | 202.2 | 202.1 | 202.0 | 201.7 | 201.1 | 200.6 | 200.0 | 199.5 | 199.1 |
| 120° | 219.9 | 219.9 | 219.9 | 219.9 | 219.9 | 219.7 | 219.1 | 218.5 | 218.0 | 217.4 | 217.2 |
| 122.5° | 237.3 | 237.2 | 237.1 | 237.1 | 237.0 | 236.8 | 236.4 | 236.1 | 235.7 | 235.4 | 235.1 |
| 125° | 253.3 | 253.2 | 253.1 | 252.9 | 252.8 | 252.6 | 252.5 | 252.4 | 252.2 | 252.1 | 251.8 |
| 127.5° | 269.1 | 269.2 | 269.4 | 269.5 | 269.7 | 269.6 | 269.4 | 269.2 | 269.0 | 268.8 | 268.4 |
| 130° | 284.2 | 284.4 | 284.5 | 284.6 | 284.8 | 284.7 | 284.4 | 284.2 | 283.9 | 283.6 | 283.3 |
| 132.5° | 298.1 | 298.3 | 298.5 | 298.7 | 298.9 | 298.9 | 298.6 | 298.3 | 298.1 | 297.8 | 297.6 |
| 135° | 312.3 | 312.5 | 312.7 | 312.9 | 313.1 | 313.1 | 312.9 | 312.7 | 312.5 | 312.3 | 312.0 |
| 137.5° | 325.8 | 326.0 | 326.1 | 326.2 | 326.4 | 326.3 | 325.9 | 325.6 | 325.2 | 324.9 | 324.7 |
| 140° | 337.8 | 337.9 | 338.1 | 338.2 | 338.4 | 338.3 | 338.0 | 337.7 | 337.4 | 337.2 | 337.0 |
| 142.5° | 348.8 | 349.0 | 349.2 | 349.4 | 349.7 | 349.7 | 349.4 | 349.2 | 349.0 | 348.8 | 348.6 |
| 145° | 360.2 | 360.2 | 360.2 | 360.2 | 360.2 | 360.1 | 360.0 | 359.8 | 359.7 | 359.5 | 359.4 |
| 147.5° | 368.4 | 368.7 | 369.1 | 369.4 | 369.8 | 369.9 | 369.7 | 369.6 | 369.4 | 369.3 | 369.2 |
| 150° | 377.8 | 378.0 | 378.2 | 378.4 | 378.6 | 378.7 | 378.5 | 378.4 | 378.3 | 378.1 | 378.0 |
| 152.5° | 385.4 | 385.7 | 386.1 | 386.4 | 386.8 | 386.8 | 386.5 | 386.2 | 386.0 | 385.7 | 385.6 |
| 155° | 392.3 | 392.7 | 393.1 | 393.6 | 394.0 | 394.0 | 393.7 | 393.3 | 393.0 | 392.6 | 392.5 |
| 157.5° | 398.3 | 398.9 | 399.4 | 400.0 | 400.5 | 400.6 | 400.2 | 399.8 | 399.3 | 398.9 | 399.0 |
| 160° | 404.0 | 404.5 | 404.9 | 405.4 | 405.9 | 406.0 | 405.5 | 405.1 | 404.7 | 404.3 | 404.3 |
| 162.5° | 409.3 | 409.7 | 410.2 | 410.6 | 411.0 | 411.0 | 410.5 | 410.0 | 409.5 | 409.0 | 409.1 |
| 165° | 413.4 | 413.9 | 414.4 | 414.9 | 415.4 | 415.3 | 414.8 | 414.2 | 413.7 | 413.1 | 413.2 |
| 167.5° | 416.6 | 417.1 | 417.7 | 418.2 | 418.8 | 418.8 | 418.2 | 417.7 | 417.1 | 416.6 | 416.6 |
| 170° | 419.4 | 420.0 | 420.5 | 421.1 | 421.6 | 421.6 | 421.1 | 420.5 | 420.0 | 419.4 | 419.4 |
| 172.5° | 421.0 | 421.6 | 422.2 | 422.9 | 423.5 | 423.5 | 423.0 | 422.4 | 421.9 | 421.3 | 421.2 |
| 175° | 422.6 | 423.1 | 423.7 | 424.2 | 424.8 | 424.8 | 424.3 | 423.8 | 423.4 | 422.9 | 422.8 |
| 177.5° | 422.9 | 423.6 | 424.3 | 425.0 | 425.7 | 425.7 | 425.2 | 424.6 | 424.1 | 423.5 | 423.4 |
| 180° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 |
| 2.5° | 3159.1 | 3150.9 | 3120.8 | 3090.6 | 3056.4 | 3022.1 | 2996.7 | 2971.4 | 2933.7 | 2896.0 | 2865.2 |
| 5° | 3423.7 | 3385.3 | 3321.6 | 3257.8 | 3171.5 | 3085.1 | 3026.9 | 2968.6 | 2890.5 | 2812.4 | 2750.0 |
| 7.5° | 3633.4 | 3567.6 | 3478.5 | 3389.4 | 3276.3 | 3163.3 | 3056.4 | 2949.4 | 2830.2 | 2711.0 | 2613.7 |
| 10° | 3767.0 | 3722.4 | 3619.7 | 3516.9 | 3365.4 | 3214.0 | 3064.6 | 2915.2 | 2761.7 | 2608.2 | 2479.3 |
| 12.5° | 3780.0 | 3784.1 | 3689.6 | 3595.0 | 3423.7 | 3252.3 | 3070.7 | 2889.1 | 2695.9 | 2502.6 | 2352.6 |
| 15° | 3665.6 | 3736.2 | 3684.1 | 3632.0 | 3459.3 | 3286.6 | 3063.2 | 2839.8 | 2617.1 | 2394.4 | 2221.0 |
| 17.5° | 3453.1 | 3604.6 | 3612.1 | 3619.7 | 3447.0 | 3274.3 | 3026.9 | 2779.5 | 2527.3 | 2275.1 | 2092.8 |
| 20° | 3163.3 | 3386.7 | 3463.4 | 3540.2 | 3399.7 | 3259.2 | 2993.3 | 2727.4 | 2445.1 | 2162.7 | 1971.6 |
| 22.5° | 2867.2 | 3138.6 | 3279.1 | 3419.6 | 3315.4 | 3211.2 | 2928.2 | 2645.2 | 2347.1 | 2049.0 | 1855.1 |
| 25° | 2530.1 | 2826.1 | 3042.0 | 3257.8 | 3194.1 | 3130.4 | 2851.5 | 2572.5 | 2255.3 | 1938.0 | 1739.9 |
| 27.5° | 2236.1 | 2536.9 | 2797.3 | 3057.7 | 3044.0 | 3030.3 | 2753.5 | 2476.6 | 2151.8 | 1827.0 | 1635.8 |
| 30° | 1974.3 | 2254.6 | 2545.8 | 2837.1 | 2870.6 | 2904.2 | 2637.0 | 2369.7 | 2044.2 | 1718.7 | 1534.3 |
| 32.5° | 1742.7 | 1987.3 | 2299.8 | 2612.3 | 2678.1 | 2743.9 | 2502.6 | 2261.4 | 1939.3 | 1617.3 | 1439.8 |
| 35° | 1552.8 | 1774.9 | 2087.4 | 2399.9 | 2482.1 | 2564.3 | 2354.6 | 2144.9 | 1831.1 | 1517.2 | 1347.9 |
| 37.5° | 1385.0 | 1570.7 | 1875.6 | 2180.6 | 2281.3 | 2382.0 | 2194.3 | 2006.5 | 1712.5 | 1418.5 | 1263.0 |
| 40° | 1245.8 | 1395.2 | 1675.5 | 1955.8 | 2072.3 | 2188.8 | 2033.9 | 1879.0 | 1600.1 | 1321.2 | 1178.0 |
| 42.5° | 1129.3 | 1262.3 | 1516.5 | 1770.8 | 1882.5 | 1994.2 | 1863.3 | 1732.4 | 1484.3 | 1236.2 | 1105.4 |
| 45° | 1030.0 | 1136.2 | 1367.1 | 1598.1 | 1704.3 | 1810.5 | 1698.1 | 1585.7 | 1367.1 | 1148.5 | 1026.6 |
| 47.5° | 936.8 | 1027.9 | 1225.3 | 1422.6 | 1517.2 | 1611.8 | 1524.1 | 1436.3 | 1251.3 | 1066.3 | 956.0 |
| 50° | 853.2 | 926.5 | 1099.2 | 1271.9 | 1354.1 | 1436.3 | 1358.9 | 1281.5 | 1129.3 | 977.2 | 881.3 |
| 52.5° | 780.5 | 840.2 | 984.7 | 1129.3 | 1199.9 | 1270.5 | 1204.0 | 1137.6 | 1017.0 | 896.3 | 812.7 |
| 55° | 708.6 | 759.3 | 884.7 | 1010.1 | 1058.1 | 1106.0 | 1054.6 | 1003.3 | 905.9 | 808.6 | 738.0 |
| 57.5° | 641.4 | 686.7 | 789.4 | 892.2 | 929.2 | 966.2 | 919.6 | 873.0 | 799.7 | 726.4 | 667.5 |
| 60° | 575.6 | 612.6 | 698.3 | 784.0 | 806.6 | 829.2 | 791.5 | 753.8 | 702.4 | 651.0 | 598.3 |
| 62.5° | 514.6 | 548.2 | 612.0 | 675.7 | 690.8 | 705.8 | 677.1 | 648.3 | 609.2 | 570.2 | 529.0 |
| 65° | 451.6 | 477.0 | 529.0 | 581.1 | 590.7 | 600.3 | 575.0 | 549.6 | 520.1 | 490.7 | 460.5 |
| 67.5° | 393.4 | 411.2 | 453.7 | 496.1 | 496.8 | 497.5 | 477.0 | 456.4 | 440.0 | 423.5 | 399.5 |
| 70° | 336.5 | 353.6 | 381.7 | 409.8 | 410.5 | 411.2 | 394.7 | 378.3 | 365.9 | 353.6 | 335.8 |
| 72.5° | 278.2 | 290.6 | 311.8 | 333.0 | 331.7 | 330.3 | 320.0 | 309.7 | 300.2 | 290.6 | 277.5 |
| 75° | 225.5 | 235.7 | 250.1 | 264.5 | 260.4 | 256.3 | 250.8 | 245.3 | 237.1 | 228.9 | 220.7 |
| 77.5° | 177.5 | 183.7 | 191.9 | 200.1 | 197.4 | 194.6 | 189.8 | 185.0 | 178.9 | 172.7 | 169.3 |
| 80° | 130.2 | 132.9 | 138.4 | 143.9 | 142.5 | 141.2 | 135.7 | 130.2 | 128.8 | 127.5 | 122.7 |
| 82.5° | 88.4 | 91.8 | 93.2 | 94.6 | 93.9 | 93.2 | 89.1 | 85.0 | 83.6 | 82.2 | 81.5 |
| 85° | 52.8 | 53.5 | 54.1 | 54.8 | 52.8 | 50.7 | 49.3 | 48.0 | 48.0 | 48.0 | 47.3 |
| 87.5° | 24.0 | 24.7 | 24.7 | 24.7 | 24.0 | 23.3 | 21.9 | 20.6 | 21.2 | 21.9 | 21.9 |
| 90° | 5.7 | 4.8 | 3.9 | 3.1 | 2.4 | 1.7 | 1.0 | 0.3 | 1.0 | 1.7 | 2.4 |
| 92.5° | 6.9 | 6.3 | 5.7 | 5.6 | 6.0 | 6.4 | 6.8 | 7.2 | 6.8 | 6.4 | 6.0 |
| 95° | 8.2 | 7.5 | 6.7 | 7.7 | 10.6 | 13.5 | 16.4 | 19.2 | 16.4 | 13.5 | 10.6 |
| 97.5° | 17.2 | 20.8 | 24.4 | 27.1 | 29.1 | 31.1 | 33.0 | 35.0 | 33.0 | 31.1 | 29.1 |
| 100° | 32.2 | 43.2 | 54.1 | 58.9 | 57.5 | 56.1 | 54.7 | 53.3 | 54.7 | 56.1 | 57.5 |
| 102.5° | 47.7 | 59.9 | 72.1 | 77.7 | 76.8 | 75.9 | 75.0 | 74.0 | 75.0 | 75.9 | 76.8 |
| 105° | 81.6 | 87.9 | 94.2 | 97.0 | 96.2 | 95.4 | 94.7 | 93.9 | 94.7 | 95.4 | 96.2 |
| 107.5° | 120.5 | 119.4 | 118.4 | 117.5 | 116.9 | 116.3 | 115.6 | 115.0 | 115.6 | 116.3 | 116.9 |
| 110° | 140.6 | 139.8 | 139.0 | 138.4 | 137.8 | 137.2 | 136.7 | 136.1 | 136.7 | 137.2 | 137.8 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 160.4 | 159.7 | 158.9 | 158.3 | 157.8 | 157.3 | 156.8 | 156.3 | 156.8 | 157.3 | 157.8 |
| 115° | 179.6 | 179.0 | 178.3 | 177.8 | 177.4 | 177.0 | 176.6 | 176.1 | 176.6 | 177.0 | 177.4 |
| 117.5° | 198.8 | 198.4 | 198.1 | 197.6 | 197.1 | 196.7 | 196.2 | 195.7 | 196.2 | 196.7 | 197.1 |
| 120° | 217.0 | 216.8 | 216.6 | 216.2 | 215.5 | 214.9 | 214.3 | 213.6 | 214.3 | 214.9 | 215.5 |
| 122.5° | 234.8 | 234.5 | 234.3 | 233.9 | 233.4 | 232.9 | 232.4 | 231.9 | 232.4 | 232.9 | 233.4 |
| 125° | 251.5 | 251.2 | 251.0 | 250.5 | 250.0 | 249.4 | 248.9 | 248.3 | 248.9 | 249.4 | 250.0 |
| 127.5° | 268.1 | 267.7 | 267.4 | 266.9 | 266.4 | 265.8 | 265.2 | 264.7 | 265.2 | 265.8 | 266.4 |
| 130° | 283.0 | 282.8 | 282.5 | 282.1 | 281.5 | 280.9 | 280.4 | 279.8 | 280.4 | 280.9 | 281.5 |
| 132.5° | 297.4 | 297.1 | 296.9 | 296.5 | 296.0 | 295.4 | 294.9 | 294.3 | 294.9 | 295.4 | 296.0 |
| 135° | 311.7 | 311.4 | 311.1 | 310.8 | 310.4 | 310.0 | 309.5 | 309.1 | 309.5 | 310.0 | 310.4 |
| 137.5° | 324.6 | 324.5 | 324.3 | 324.0 | 323.4 | 322.8 | 322.3 | 321.7 | 322.3 | 322.8 | 323.4 |
| 140° | 336.7 | 336.5 | 336.3 | 336.0 | 335.6 | 335.2 | 334.7 | 334.3 | 334.7 | 335.2 | 335.6 |
| 142.5° | 348.4 | 348.2 | 348.0 | 347.7 | 347.2 | 346.8 | 346.4 | 346.0 | 346.4 | 346.8 | 347.2 |
| 145° | 359.3 | 359.1 | 359.0 | 358.7 | 358.2 | 357.7 | 357.2 | 356.7 | 357.2 | 357.7 | 358.2 |
| 147.5° | 369.0 | 368.9 | 368.7 | 368.5 | 368.1 | 367.8 | 367.4 | 367.1 | 367.4 | 367.8 | 368.1 |
| 150° | 377.8 | 377.7 | 377.6 | 377.4 | 377.2 | 377.0 | 376.8 | 376.5 | 376.8 | 377.0 | 377.2 |
| 152.5° | 385.5 | 385.5 | 385.4 | 385.3 | 385.3 | 385.2 | 385.1 | 385.1 | 385.1 | 385.2 | 385.3 |
| 155° | 392.5 | 392.4 | 392.3 | 392.4 | 392.5 | 392.7 | 392.8 | 392.9 | 392.8 | 392.7 | 392.5 |
| 157.5° | 399.1 | 399.1 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 |
| 160° | 404.4 | 404.5 | 404.6 | 404.6 | 404.7 | 404.8 | 404.8 | 404.9 | 404.8 | 404.8 | 404.7 |
| 162.5° | 409.1 | 409.2 | 409.3 | 409.4 | 409.6 | 409.8 | 410.1 | 410.3 | 410.1 | 409.8 | 409.6 |
| 165° | 413.2 | 413.3 | 413.4 | 413.5 | 413.7 | 413.9 | 414.2 | 414.4 | 414.2 | 413.9 | 413.7 |
| 167.5° | 416.6 | 416.6 | 416.6 | 416.7 | 417.0 | 417.3 | 417.5 | 417.8 | 417.5 | 417.3 | 417.0 |
| 170° | 419.4 | 419.4 | 419.4 | 419.5 | 419.8 | 420.1 | 420.4 | 420.7 | 420.4 | 420.1 | 419.8 |
| 172.5° | 421.2 | 421.1 | 421.0 | 421.2 | 421.5 | 421.9 | 422.2 | 422.6 | 422.2 | 421.9 | 421.5 |
| 175° | 422.7 | 422.7 | 422.6 | 422.7 | 423.1 | 423.4 | 423.8 | 424.1 | 423.8 | 423.4 | 423.1 |
| 177.5° | 423.4 | 423.3 | 423.2 | 423.4 | 423.7 | 424.1 | 424.4 | 424.8 | 424.4 | 424.1 | 423.7 |
| 180° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 | 2953.6 |
| 2.5° | 2834.3 | 2807.6 | 2780.9 | 2760.3 | 2739.8 | 2704.8 | 2669.9 | 2661.6 | 2653.4 | 2641.8 | 2630.1 |
| 5° | 2687.7 | 2621.9 | 2556.1 | 2497.2 | 2438.2 | 2392.3 | 2346.4 | 2316.2 | 2286.1 | 2264.2 | 2242.2 |
| 7.5° | 2516.4 | 2417.7 | 2319.0 | 2249.1 | 2179.2 | 2112.7 | 2046.2 | 2025.0 | 2003.8 | 1975.0 | 1946.2 |
| 10° | 2350.5 | 2241.6 | 2132.6 | 2041.5 | 1950.3 | 1885.2 | 1820.1 | 1794.1 | 1768.0 | 1731.7 | 1695.4 |
| 12.5° | 2202.5 | 2083.3 | 1964.0 | 1872.2 | 1780.4 | 1717.3 | 1654.3 | 1616.6 | 1578.9 | 1558.3 | 1537.8 |
| 15° | 2047.6 | 1920.2 | 1792.7 | 1707.7 | 1622.7 | 1565.9 | 1509.0 | 1476.1 | 1443.2 | 1423.3 | 1403.5 |
| 17.5° | 1910.6 | 1784.5 | 1658.4 | 1576.8 | 1495.3 | 1443.2 | 1391.1 | 1362.3 | 1333.6 | 1318.5 | 1303.4 |
| 20° | 1780.4 | 1657.0 | 1533.7 | 1454.2 | 1374.7 | 1332.2 | 1289.7 | 1271.2 | 1252.7 | 1240.4 | 1228.0 |
| 22.5° | 1661.1 | 1539.8 | 1418.5 | 1350.7 | 1282.8 | 1248.6 | 1214.3 | 1201.3 | 1188.3 | 1178.0 | 1167.7 |
| 25° | 1541.9 | 1433.6 | 1325.3 | 1267.8 | 1210.2 | 1182.1 | 1154.0 | 1141.0 | 1128.0 | 1117.7 | 1107.4 |
| 27.5° | 1444.6 | 1341.1 | 1237.6 | 1188.3 | 1138.9 | 1117.0 | 1095.1 | 1084.8 | 1074.5 | 1064.9 | 1055.3 |
| 30° | 1350.0 | 1257.5 | 1165.0 | 1122.5 | 1080.0 | 1060.1 | 1040.3 | 1030.0 | 1019.7 | 1010.8 | 1001.9 |
| 32.5° | 1262.3 | 1182.8 | 1103.3 | 1064.2 | 1025.2 | 1008.7 | 992.3 | 980.0 | 967.6 | 960.8 | 953.9 |
| 35° | 1178.7 | 1107.4 | 1036.1 | 1003.9 | 971.7 | 955.3 | 938.8 | 928.6 | 918.3 | 912.8 | 907.3 |
| 37.5° | 1107.4 | 1043.7 | 980.0 | 949.1 | 918.3 | 902.5 | 886.8 | 877.8 | 868.9 | 866.9 | 864.8 |
| 40° | 1034.8 | 980.0 | 925.1 | 895.0 | 864.8 | 851.1 | 837.4 | 831.9 | 826.4 | 825.1 | 823.7 |
| 42.5° | 974.5 | 921.0 | 867.6 | 840.2 | 812.7 | 801.1 | 789.4 | 786.7 | 784.0 | 786.0 | 788.1 |
| 45° | 904.6 | 860.0 | 815.5 | 790.1 | 764.8 | 755.2 | 745.6 | 743.5 | 741.5 | 745.6 | 749.7 |
| 47.5° | 845.6 | 804.5 | 763.4 | 739.4 | 715.4 | 708.6 | 701.7 | 701.0 | 700.4 | 705.8 | 711.3 |
| 50° | 785.3 | 745.6 | 705.8 | 686.7 | 667.5 | 661.3 | 655.1 | 657.2 | 659.2 | 668.1 | 677.1 |
| 52.5° | 729.1 | 692.1 | 655.1 | 637.3 | 619.5 | 615.4 | 611.3 | 616.1 | 620.9 | 630.5 | 640.1 |
| 55° | 667.5 | 633.9 | 600.3 | 586.6 | 572.9 | 568.8 | 564.7 | 574.3 | 583.9 | 592.8 | 601.7 |
| 57.5° | 608.5 | 579.1 | 549.6 | 537.3 | 524.9 | 524.2 | 523.6 | 532.5 | 541.4 | 551.0 | 560.6 |
| 60° | 545.5 | 520.8 | 496.1 | 486.5 | 477.0 | 478.3 | 479.7 | 490.0 | 500.3 | 507.8 | 515.3 |
| 62.5° | 487.9 | 467.4 | 446.8 | 437.9 | 429.0 | 432.4 | 435.8 | 446.1 | 456.4 | 465.3 | 474.2 |
| 65° | 430.4 | 413.2 | 396.1 | 389.9 | 383.8 | 388.6 | 393.4 | 402.3 | 411.2 | 417.3 | 423.5 |
| 67.5° | 375.5 | 361.1 | 346.8 | 342.0 | 337.2 | 342.0 | 346.8 | 355.7 | 364.6 | 370.7 | 376.9 |
| 70° | 318.0 | 306.3 | 294.7 | 291.2 | 287.8 | 293.3 | 298.8 | 306.3 | 313.9 | 320.0 | 326.2 |
| 72.5° | 264.5 | 255.6 | 246.7 | 246.0 | 245.3 | 250.1 | 254.9 | 262.5 | 270.0 | 274.1 | 278.2 |
| 75° | 212.4 | 207.6 | 202.8 | 202.2 | 201.5 | 206.3 | 211.1 | 215.2 | 219.3 | 222.7 | 226.1 |
| 77.5° | 165.8 | 161.7 | 157.6 | 158.3 | 159.0 | 162.4 | 165.8 | 169.9 | 174.1 | 176.1 | 178.2 |
| 80° | 117.9 | 116.5 | 115.1 | 116.5 | 117.9 | 120.6 | 123.4 | 126.1 | 128.8 | 130.2 | 131.6 |
| 82.5° | 80.9 | 79.5 | 78.1 | 80.2 | 82.2 | 84.3 | 86.3 | 88.4 | 90.5 | 91.1 | 91.8 |
| 85° | 46.6 | 48.7 | 50.7 | 50.7 | 50.7 | 51.4 | 52.1 | 52.8 | 53.5 | 52.8 | 52.1 |
| 87.5° | 21.9 | 22.6 | 23.3 | 23.3 | 23.3 | 24.0 | 24.7 | 24.7 | 24.7 | 24.0 | 23.3 |
| 90° | 3.1 | 3.9 | 4.8 | 5.7 | 6.7 | 7.6 | 7.8 | 8.1 | 8.4 | 8.7 | 8.9 |
| 92.5° | 5.6 | 5.7 | 6.3 | 6.9 | 7.6 | 8.2 | 8.7 | 9.2 | 9.7 | 10.2 | 10.4 |
| 95° | 7.7 | 6.7 | 7.5 | 8.2 | 9.0 | 9.8 | 10.3 | 10.7 | 11.2 | 11.7 | 12.0 |
| 97.5° | 27.1 | 24.4 | 20.8 | 17.2 | 13.7 | 10.1 | 10.6 | 11.2 | 11.8 | 12.3 | 12.6 |
| 100° | 58.9 | 54.1 | 43.2 | 32.2 | 21.3 | 10.4 | 11.0 | 11.5 | 12.1 | 12.6 | 13.0 |
| 102.5° | 77.7 | 72.1 | 59.9 | 47.7 | 35.5 | 23.3 | 21.0 | 18.7 | 16.4 | 14.1 | 13.0 |
| 105° | 97.0 | 94.2 | 87.9 | 81.6 | 75.3 | 69.0 | 56.6 | 44.2 | 31.8 | 19.4 | 13.3 |
| 107.5° | 117.5 | 118.4 | 119.4 | 120.5 | 121.5 | 122.6 | 111.8 | 101.0 | 90.2 | 79.4 | 69.5 |
| 110° | 138.4 | 139.0 | 139.8 | 140.6 | 141.3 | 142.1 | 139.8 | 137.5 | 135.2 | 132.9 | 126.7 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 158.3 | 158.9 | 159.7 | 160.4 | 161.2 | 162.0 | 162.6 | 163.2 | 163.9 | 164.5 | 164.7 |
| 115° | 177.8 | 178.3 | 179.0 | 179.6 | 180.2 | 180.9 | 181.6 | 182.3 | 183.0 | 183.7 | 184.2 |
| 117.5° | 197.6 | 198.1 | 198.4 | 198.8 | 199.1 | 199.5 | 200.0 | 200.6 | 201.1 | 201.7 | 202.0 |
| 120° | 216.2 | 216.6 | 216.8 | 217.0 | 217.2 | 217.4 | 218.0 | 218.5 | 219.1 | 219.7 | 219.9 |
| 122.5° | 233.9 | 234.3 | 234.5 | 234.8 | 235.1 | 235.4 | 235.7 | 236.1 | 236.4 | 236.8 | 237.0 |
| 125° | 250.5 | 251.0 | 251.2 | 251.5 | 251.8 | 252.1 | 252.2 | 252.4 | 252.5 | 252.6 | 252.8 |
| 127.5° | 266.9 | 267.4 | 267.7 | 268.1 | 268.4 | 268.8 | 269.0 | 269.2 | 269.4 | 269.6 | 269.7 |
| 130° | 282.1 | 282.5 | 282.8 | 283.0 | 283.3 | 283.6 | 283.9 | 284.2 | 284.4 | 284.7 | 284.8 |
| 132.5° | 296.5 | 296.9 | 297.1 | 297.4 | 297.6 | 297.8 | 298.1 | 298.3 | 298.6 | 298.9 | 298.9 |
| 135° | 310.8 | 311.1 | 311.4 | 311.7 | 312.0 | 312.3 | 312.5 | 312.7 | 312.9 | 313.1 | 313.1 |
| 137.5° | 324.0 | 324.3 | 324.5 | 324.6 | 324.7 | 324.9 | 325.2 | 325.6 | 325.9 | 326.3 | 326.4 |
| 140° | 336.0 | 336.3 | 336.5 | 336.7 | 337.0 | 337.2 | 337.4 | 337.7 | 338.0 | 338.3 | 338.4 |
| 142.5° | 347.7 | 348.0 | 348.2 | 348.4 | 348.6 | 348.8 | 349.0 | 349.2 | 349.4 | 349.7 | 349.7 |
| 145° | 358.7 | 359.0 | 359.1 | 359.3 | 359.4 | 359.5 | 359.7 | 359.8 | 360.0 | 360.1 | 360.2 |
| 147.5° | 368.5 | 368.7 | 368.9 | 369.0 | 369.2 | 369.3 | 369.4 | 369.6 | 369.7 | 369.9 | 369.8 |
| 150° | 377.4 | 377.6 | 377.7 | 377.8 | 378.0 | 378.1 | 378.3 | 378.4 | 378.5 | 378.7 | 378.6 |
| 152.5° | 385.3 | 385.4 | 385.5 | 385.5 | 385.6 | 385.7 | 386.0 | 386.2 | 386.5 | 386.8 | 386.8 |
| 155° | 392.4 | 392.3 | 392.4 | 392.5 | 392.5 | 392.6 | 393.0 | 393.3 | 393.7 | 394.0 | 394.0 |
| 157.5° | 399.2 | 399.2 | 399.1 | 399.1 | 399.0 | 398.9 | 399.3 | 399.8 | 400.2 | 400.6 | 400.5 |
| 160° | 404.6 | 404.6 | 404.5 | 404.4 | 404.3 | 404.3 | 404.7 | 405.1 | 405.5 | 406.0 | 405.9 |
| 162.5° | 409.4 | 409.3 | 409.2 | 409.1 | 409.1 | 409.0 | 409.5 | 410.0 | 410.5 | 411.0 | 411.0 |
| 165° | 413.5 | 413.4 | 413.3 | 413.2 | 413.2 | 413.1 | 413.7 | 414.2 | 414.8 | 415.3 | 415.4 |
| 167.5° | 416.7 | 416.6 | 416.6 | 416.6 | 416.6 | 416.6 | 417.1 | 417.7 | 418.2 | 418.8 | 418.8 |
| 170° | 419.5 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 420.0 | 420.5 | 421.1 | 421.6 | 421.6 |
| 172.5° | 421.2 | 421.0 | 421.1 | 421.2 | 421.2 | 421.3 | 421.9 | 422.4 | 423.0 | 423.5 | 423.5 |
| 175° | 422.7 | 422.6 | 422.7 | 422.7 | 422.8 | 422.9 | 423.4 | 423.8 | 424.3 | 424.8 | 424.8 |
| 177.5° | 423.4 | 423.2 | 423.3 | 423.4 | 423.4 | 423.5 | 424.1 | 424.6 | 425.2 | 425.7 | 425.7 |
| 180° | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2953.6 | 2953.6 | 2953.6 | 2953.6 |
| 2.5° | 2625.3 | 2620.5 | 2601.3 | 2582.1 |
| 5° | 2225.8 | 2209.3 | 2203.9 | 2198.4 |
| 7.5° | 1944.8 | 1943.5 | 1914.7 | 1885.9 |
| 10° | 1697.4 | 1699.5 | 1673.5 | 1647.4 |
| 12.5° | 1520.6 | 1503.5 | 1501.5 | 1499.4 |
| 15° | 1387.7 | 1371.9 | 1369.2 | 1366.5 |
| 17.5° | 1293.8 | 1284.2 | 1281.5 | 1278.7 |
| 20° | 1222.5 | 1217.1 | 1212.3 | 1207.5 |
| 22.5° | 1160.9 | 1154.0 | 1149.9 | 1145.8 |
| 25° | 1101.2 | 1095.1 | 1093.7 | 1092.3 |
| 27.5° | 1047.8 | 1040.3 | 1040.3 | 1040.3 |
| 30° | 997.1 | 992.3 | 990.2 | 988.2 |
| 32.5° | 949.8 | 945.7 | 945.7 | 945.7 |
| 35° | 905.3 | 903.2 | 900.5 | 897.7 |
| 37.5° | 864.8 | 864.8 | 863.5 | 862.1 |
| 40° | 825.8 | 827.8 | 827.8 | 827.8 |
| 42.5° | 790.1 | 792.2 | 792.2 | 792.2 |
| 45° | 753.1 | 756.6 | 757.9 | 759.3 |
| 47.5° | 716.8 | 722.3 | 723.7 | 725.0 |
| 50° | 681.2 | 685.3 | 686.0 | 686.7 |
| 52.5° | 644.8 | 649.6 | 653.1 | 656.5 |
| 55° | 606.5 | 611.3 | 613.3 | 615.4 |
| 57.5° | 565.4 | 570.2 | 570.8 | 571.5 |
| 60° | 520.1 | 524.9 | 526.3 | 527.7 |
| 62.5° | 477.0 | 479.7 | 481.1 | 482.4 |
| 65° | 427.6 | 431.7 | 434.5 | 437.2 |
| 67.5° | 380.3 | 383.8 | 383.8 | 383.8 |
| 70° | 327.6 | 328.9 | 331.0 | 333.0 |
| 72.5° | 278.9 | 279.6 | 279.6 | 279.6 |
| 75° | 227.5 | 228.9 | 229.6 | 230.3 |
| 77.5° | 178.9 | 179.5 | 179.5 | 179.5 |
| 80° | 130.9 | 130.2 | 130.2 | 130.2 |
| 82.5° | 89.8 | 87.7 | 87.7 | 87.7 |
| 85° | 51.4 | 50.7 | 51.4 | 52.1 |
| 87.5° | 23.3 | 23.3 | 23.3 | 23.3 |
| 90° | 9.0 | 9.2 | 9.3 | 9.5 |
| 92.5° | 10.5 | 10.6 | 10.6 | 10.7 |
| 95° | 12.0 | 12.0 | 12.0 | 12.0 |
| 97.5° | 12.7 | 12.8 | 12.8 | 12.9 |
| 100° | 13.0 | 13.1 | 13.2 | 13.2 |
| 102.5° | 13.1 | 13.3 | 13.4 | 13.5 |
| 105° | 13.4 | 13.6 | 13.7 | 13.9 |
| 107.5° | 60.3 | 51.1 | 41.9 | 32.8 |
| 110° | 116.7 | 106.7 | 96.7 | 86.7 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 164.6 | 164.4 | 164.3 | 164.2 |
| 115° | 184.4 | 184.7 | 185.0 | 185.3 |
| 117.5° | 202.1 | 202.2 | 202.2 | 202.3 |
| 120° | 219.9 | 219.9 | 219.9 | 219.9 |
| 122.5° | 237.1 | 237.1 | 237.2 | 237.3 |
| 125° | 252.9 | 253.1 | 253.2 | 253.3 |
| 127.5° | 269.5 | 269.4 | 269.2 | 269.1 |
| 130° | 284.6 | 284.5 | 284.4 | 284.2 |
| 132.5° | 298.7 | 298.5 | 298.3 | 298.1 |
| 135° | 312.9 | 312.7 | 312.5 | 312.3 |
| 137.5° | 326.2 | 326.1 | 326.0 | 325.8 |
| 140° | 338.2 | 338.1 | 337.9 | 337.8 |
| 142.5° | 349.4 | 349.2 | 349.0 | 348.8 |
| 145° | 360.2 | 360.2 | 360.2 | 360.2 |
| 147.5° | 369.4 | 369.1 | 368.7 | 368.4 |
| 150° | 378.4 | 378.2 | 378.0 | 377.8 |
| 152.5° | 386.4 | 386.1 | 385.7 | 385.4 |
| 155° | 393.6 | 393.1 | 392.7 | 392.3 |
| 157.5° | 400.0 | 399.4 | 398.9 | 398.3 |
| 160° | 405.4 | 404.9 | 404.5 | 404.0 |
| 162.5° | 410.6 | 410.2 | 409.7 | 409.3 |
| 165° | 414.9 | 414.4 | 413.9 | 413.4 |
| 167.5° | 418.2 | 417.7 | 417.1 | 416.6 |
| 170° | 421.1 | 420.5 | 420.0 | 419.4 |
| 172.5° | 422.9 | 422.2 | 421.6 | 421.0 |
| 175° | 424.2 | 423.7 | 423.1 | 422.6 |
| 177.5° | 425.0 | 424.3 | 423.6 | 422.9 |
| 180° | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P831255

CATALOG NUMBER: S123DIP-S1165D365U940-4F0-1E-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 | 17.94 | 19.06 | 18.61 | 19.75 | 20.55 | 20.17 | 21.30 | 20.85 | 21.98 | 22.78 |
| | 3H | 19.60 | 20.61 | 20.29 | 21.31 | 22.14 | 21.62 | 22.63 | 22.31 | 23.32 | 24.15 |
| | 4H | 20.19 | 21.14 | 20.90 | 21.85 | 22.69 | 22.08 | 23.03 | 22.79 | 23.74 | 24.58 |
| | 6H | 20.58 | 21.45 | 21.30 | 22.17 | 23.03 | 22.37 | 23.25 | 23.09 | 23.96 | 24.82 |
| | 8H | 20.68 | 21.51 | 21.41 | 22.25 | 23.11 | 22.44 | 23.27 | 23.17 | 24.01 | 24.87 |
| | 12H | 20.73 | 21.53 | 21.47 | 22.26 | 23.15 | 22.47 | 23.26 | 23.20 | 23.99 | 24.88 |
| 4H | 2H | 18.54 | 19.49 | 19.25 | 20.20 | 21.04 | 20.37 | 21.32 | 21.08 | 22.03 | 22.87 |
| | 3H | 20.40 | 21.19 | 21.12 | 21.93 | 22.79 | 22.01 | 22.80 | 22.73 | 23.54 | 24.41 |
| | 4H | 21.10 | 21.82 | 21.84 | 22.56 | 23.46 | 22.60 | 23.32 | 23.34 | 24.07 | 24.96 |
| | 6H | 21.59 | 22.21 | 22.35 | 22.98 | 23.88 | 23.02 | 23.64 | 23.78 | 24.41 | 25.31 |
| | 8H | 21.73 | 22.31 | 22.49 | 23.08 | 23.99 | 23.14 | 23.72 | 23.90 | 24.48 | 25.40 |
| | 12H | 21.81 | 22.33 | 22.59 | 23.12 | 24.04 | 23.20 | 23.72 | 23.98 | 24.51 | 25.42 |
| 8H | 4H | 21.39 | 21.97 | 22.15 | 22.73 | 23.65 | 22.73 | 23.31 | 23.49 | 24.07 | 24.99 |
| | 6H | 21.99 | 22.46 | 22.78 | 23.27 | 24.19 | 23.24 | 23.72 | 24.03 | 24.53 | 25.44 |
| | 8H | 22.20 | 22.62 | 23.00 | 23.43 | 24.36 | 23.42 | 23.85 | 24.22 | 24.66 | 25.59 |
| | 12H | 22.33 | 22.70 | 23.13 | 23.50 | 24.49 | 23.54 | 23.91 | 24.34 | 24.71 | 25.70 |
| 12H | 4H | 21.40 | 21.92 | 22.18 | 22.71 | 23.63 | 22.72 | 23.23 | 23.50 | 24.02 | 24.94 |
| | 6H | 22.04 | 22.46 | 22.84 | 23.27 | 24.20 | 23.26 | 23.68 | 24.06 | 24.49 | 25.42 |
| | 8H | 22.28 | 22.66 | 23.09 | 23.46 | 24.45 | 23.47 | 23.84 | 24.27 | 24.64 | 25.63 |