

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: P831639

Luminaire Tested: S123DIP-S775D365U830-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831639
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-S775D365U830-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

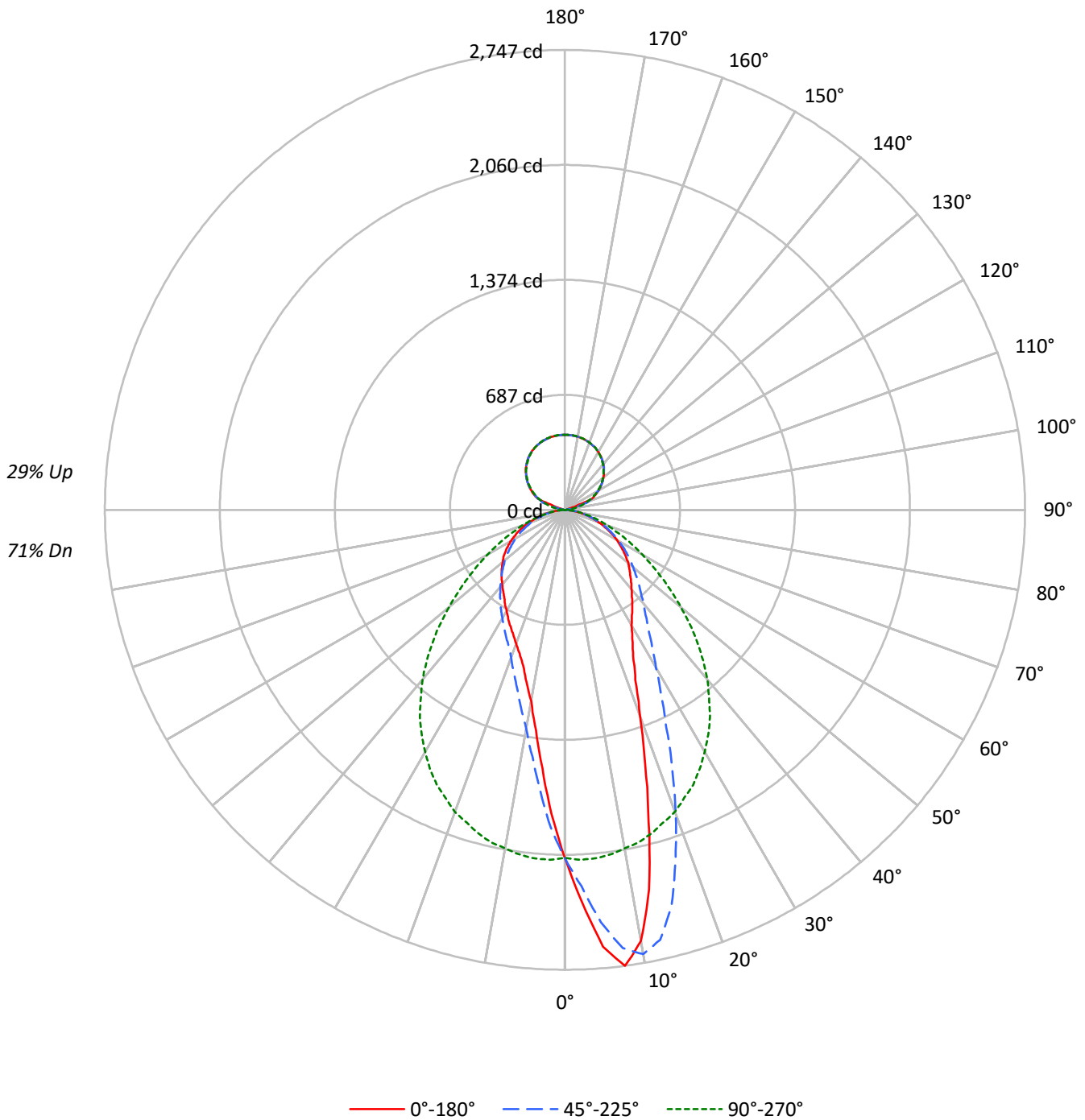
Lumens per Lamp: N/A
Luminaire Lumens: 4710.5 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 35.9
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: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-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 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 | 71 | | | | |
| 1 | 103 | 99 | 95 | 92 | 98 | 94 | 91 | 88 | 84 | 82 | 80 | 76 | 74 | 72 | 68 | 66 | 65 | 61 | | | | |
| 2 | 95 | 87 | 81 | 76 | 89 | 83 | 78 | 73 | 75 | 71 | 67 | 68 | 64 | 62 | 61 | 58 | 56 | 53 | | | | |
| 3 | 87 | 78 | 71 | 65 | 82 | 74 | 68 | 62 | 67 | 62 | 58 | 61 | 57 | 53 | 55 | 51 | 49 | 46 | | | | |
| 4 | 80 | 70 | 62 | 56 | 76 | 66 | 59 | 54 | 60 | 55 | 50 | 55 | 50 | 46 | 49 | 46 | 43 | 40 | | | | |
| 5 | 74 | 63 | 55 | 49 | 70 | 60 | 53 | 47 | 55 | 49 | 44 | 50 | 45 | 41 | 45 | 41 | 38 | 35 | | | | |
| 6 | 69 | 57 | 49 | 43 | 65 | 54 | 47 | 42 | 50 | 44 | 39 | 45 | 40 | 37 | 41 | 37 | 34 | 32 | | | | |
| 7 | 64 | 52 | 44 | 39 | 61 | 50 | 43 | 37 | 46 | 40 | 35 | 42 | 37 | 33 | 38 | 34 | 31 | 29 | | | | |
| 8 | 60 | 48 | 40 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 32 | 39 | 34 | 30 | 35 | 31 | 28 | 26 | | | | |
| 9 | 56 | 44 | 36 | 31 | 53 | 42 | 35 | 31 | 39 | 33 | 29 | 36 | 31 | 27 | 33 | 29 | 26 | 24 | | | | |
| 10 | 53 | 41 | 34 | 29 | 50 | 39 | 33 | 28 | 36 | 31 | 27 | 34 | 29 | 25 | 31 | 27 | 24 | 22 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 22385 | 22385 | 22385 | 22385 | 22385 |
| 5° | 28309 | 26719 | 22585 | 18200 | 16725 |
| 10° | 28584 | 29449 | 22435 | 14508 | 12678 |
| 15° | 21528 | 27341 | 22282 | 12286 | 10721 |
| 20° | 15000 | 22125 | 21998 | 10745 | 9739 |
| 25° | 11438 | 17013 | 21512 | 9885 | 9134 |
| 30° | 9895 | 13518 | 20738 | 9277 | 8648 |
| 35° | 9181 | 11412 | 19845 | 8838 | 8306 |
| 40° | 8692 | 10238 | 18590 | 8421 | 8190 |
| 45° | 8403 | 9474 | 16996 | 8094 | 8138 |
| 50° | 8257 | 8872 | 15110 | 7797 | 8097 |
| 55° | 7949 | 8430 | 13257 | 7516 | 8131 |
| 60° | 7666 | 7957 | 11427 | 7251 | 7998 |
| 65° | 7200 | 7508 | 9857 | 6968 | 7840 |
| 70° | 6650 | 6939 | 8381 | 6499 | 7380 |
| 75° | 6022 | 6222 | 7182 | 6039 | 6742 |
| 80° | 4965 | 5442 | 5684 | 5263 | 5684 |
| 85° | 3927 | 4409 | 4174 | 4471 | 4533 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 19406 cd/sqm

TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 196.6 | 4.2 |
| 10°-20° | 489.1 | 10.4 |
| 20°-30° | 579.1 | 12.3 |
| 30°-40° | 582.3 | 12.4 |
| 40°-50° | 534.2 | 11.3 |
| 50°-60° | 440.9 | 9.4 |
| 60°-70° | 311.9 | 6.6 |
| 70°-80° | 166.5 | 3.5 |
| 80°-90° | 43.1 | 0.9 |
| 90°-100° | 15.8 | 0.3 |
| 100°-110° | 76.4 | 1.6 |
| 110°-120° | 187.3 | 4.0 |
| 120°-130° | 237.8 | 5.0 |
| 130°-140° | 254.0 | 5.4 |
| 140°-150° | 237.5 | 5.0 |
| 150°-160° | 191.6 | 4.1 |
| 160°-170° | 123.6 | 2.6 |
| 170°-180° | 42.6 | 0.9 |
| 0°-30° | 1264.8 | 26.9 |
| 0°-40° | 1847.1 | 39.2 |
| 0°-60° | 2822.3 | 59.9 |
| 0°-90° | 3343.9 | 71.0 |
| 90°-120° | 279.5 | 5.9 |
| 90°-150° | 1008.8 | 21.4 |
| 90°-180° | 1367.0 | 29.0 |
| 0°-180° | 4710.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2080 | 2080 | 2080 | 2080 | 2080 | |
| 5° | 2620 | 2473 | 2090 | 1684 | 1548 | 250 |
| 15° | 1932 | 2454 | 2000 | 1102 | 962 | 534 |
| 25° | 963 | 1432 | 1811 | 832 | 769 | 455 |
| 35° | 699 | 868 | 1510 | 673 | 632 | 439 |
| 45° | 552 | 622 | 1116 | 532 | 535 | 427 |
| 55° | 424 | 449 | 706 | 400 | 433 | 379 |
| 65° | 283 | 295 | 387 | 274 | 308 | 281 |
| 75° | 145 | 150 | 173 | 145 | 162 | 152 |
| 85° | 32 | 36 | 34 | 36 | 37 | 36 |
| 90° | 10 | 8 | 0 | 8 | 10 | 6 |
| 95° | 13 | 10 | 20 | 10 | 13 | 11 |
| 105° | 15 | 73 | 99 | 73 | 15 | 31 |
| 115° | 196 | 191 | 186 | 191 | 196 | 184 |
| 125° | 268 | 266 | 262 | 266 | 268 | 239 |
| 135° | 330 | 330 | 327 | 330 | 330 | 255 |
| 145° | 381 | 380 | 377 | 380 | 381 | 238 |
| 155° | 415 | 415 | 415 | 415 | 415 | 191 |
| 165° | 437 | 437 | 438 | 437 | 437 | 123 |
| 175° | 447 | 447 | 448 | 447 | 447 | 43 |
| 180° | 448 | 448 | 448 | 448 | 448 | |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 |
| 2.5° | 2344.0 | 2341.6 | 2339.2 | 2327.1 | 2315.0 | 2309.3 | 2303.5 | 2286.1 | 2268.7 | 2249.4 | 2230.1 |
| 5° | 2620.0 | 2626.7 | 2633.5 | 2625.8 | 2618.1 | 2594.4 | 2570.8 | 2539.4 | 2508.0 | 2472.8 | 2437.6 |
| 7.5° | 2747.4 | 2751.2 | 2755.1 | 2750.3 | 2745.4 | 2739.2 | 2732.9 | 2704.9 | 2676.9 | 2640.7 | 2604.5 |
| 10° | 2615.2 | 2623.8 | 2632.5 | 2651.3 | 2670.2 | 2691.4 | 2712.6 | 2708.8 | 2704.9 | 2694.3 | 2683.7 |
| 12.5° | 2324.7 | 2335.3 | 2345.9 | 2383.6 | 2421.2 | 2469.4 | 2517.7 | 2559.2 | 2600.7 | 2629.6 | 2658.6 |
| 15° | 1931.9 | 1961.4 | 1990.8 | 2025.1 | 2059.3 | 2130.2 | 2201.2 | 2288.5 | 2375.8 | 2453.5 | 2531.2 |
| 17.5° | 1591.3 | 1602.4 | 1613.5 | 1650.2 | 1686.8 | 1776.1 | 1865.4 | 1966.2 | 2067.0 | 2195.9 | 2324.7 |
| 20° | 1309.5 | 1319.6 | 1329.8 | 1378.0 | 1426.3 | 1496.2 | 1566.2 | 1679.6 | 1793.0 | 1931.5 | 2069.9 |
| 22.5° | 1100.1 | 1116.0 | 1131.9 | 1159.0 | 1186.0 | 1253.1 | 1320.1 | 1421.0 | 1521.8 | 1674.8 | 1827.7 |
| 25° | 963.1 | 974.7 | 986.2 | 1002.6 | 1019.0 | 1072.6 | 1126.2 | 1209.1 | 1292.1 | 1432.5 | 1573.0 |
| 27.5° | 869.5 | 874.3 | 879.1 | 895.5 | 911.9 | 946.7 | 981.4 | 1052.8 | 1124.2 | 1243.4 | 1362.6 |
| 30° | 796.1 | 799.5 | 802.9 | 817.4 | 831.8 | 855.5 | 879.1 | 930.7 | 982.4 | 1087.6 | 1192.7 |
| 32.5° | 745.0 | 747.4 | 749.8 | 760.9 | 772.0 | 788.9 | 805.8 | 843.4 | 881.0 | 967.9 | 1054.7 |
| 35° | 698.7 | 700.1 | 701.6 | 709.8 | 718.0 | 730.5 | 743.1 | 771.5 | 800.0 | 868.5 | 937.0 |
| 37.5° | 658.1 | 660.1 | 662.0 | 666.8 | 671.6 | 682.7 | 693.8 | 716.5 | 739.2 | 791.8 | 844.4 |
| 40° | 618.6 | 621.9 | 625.3 | 628.7 | 632.1 | 641.2 | 650.4 | 667.8 | 685.2 | 728.6 | 772.0 |
| 42.5° | 584.8 | 588.2 | 591.5 | 593.0 | 594.4 | 599.7 | 605.1 | 621.0 | 636.9 | 669.2 | 701.6 |
| 45° | 552.0 | 553.4 | 554.9 | 556.3 | 557.8 | 562.1 | 566.5 | 580.4 | 594.4 | 622.4 | 650.4 |
| 47.5° | 522.1 | 522.1 | 522.1 | 523.0 | 524.0 | 527.9 | 531.7 | 541.8 | 552.0 | 573.7 | 595.4 |
| 50° | 493.1 | 493.1 | 493.1 | 491.7 | 490.2 | 492.6 | 495.0 | 502.8 | 510.5 | 529.8 | 549.1 |
| 52.5° | 458.4 | 458.4 | 458.4 | 458.9 | 459.3 | 459.3 | 459.3 | 466.1 | 472.9 | 490.2 | 507.6 |
| 55° | 423.6 | 425.6 | 427.5 | 426.0 | 424.6 | 425.6 | 426.5 | 430.9 | 435.2 | 449.2 | 463.2 |
| 57.5° | 388.9 | 389.9 | 390.8 | 390.3 | 389.9 | 390.3 | 390.8 | 394.7 | 398.5 | 409.2 | 419.8 |
| 60° | 356.1 | 356.1 | 356.1 | 355.1 | 354.2 | 355.1 | 356.1 | 358.0 | 359.9 | 369.6 | 379.2 |
| 62.5° | 319.4 | 319.9 | 320.4 | 320.9 | 321.3 | 320.4 | 319.4 | 321.8 | 324.2 | 331.5 | 338.7 |
| 65° | 282.7 | 283.2 | 283.7 | 285.2 | 286.6 | 285.6 | 284.7 | 287.1 | 289.5 | 294.8 | 300.1 |
| 67.5° | 249.9 | 249.0 | 248.0 | 248.5 | 249.0 | 250.4 | 251.9 | 252.3 | 252.8 | 258.6 | 264.4 |
| 70° | 211.3 | 212.3 | 213.3 | 212.8 | 212.3 | 212.8 | 213.3 | 214.7 | 216.2 | 220.5 | 224.8 |
| 72.5° | 176.6 | 177.1 | 177.6 | 177.6 | 177.6 | 178.5 | 179.5 | 180.9 | 182.4 | 184.8 | 187.2 |
| 75° | 144.8 | 144.8 | 144.8 | 145.7 | 146.7 | 147.2 | 147.6 | 147.6 | 147.6 | 149.6 | 151.5 |
| 77.5° | 110.0 | 112.4 | 114.8 | 114.4 | 113.9 | 114.8 | 115.8 | 117.2 | 118.7 | 119.7 | 120.6 |
| 80° | 80.1 | 80.1 | 80.1 | 80.6 | 81.1 | 82.5 | 84.0 | 84.9 | 85.9 | 87.8 | 89.7 |
| 82.5° | 51.1 | 51.6 | 52.1 | 53.6 | 55.0 | 56.0 | 56.9 | 58.4 | 59.8 | 59.8 | 59.8 |
| 85° | 31.8 | 30.9 | 29.9 | 30.9 | 31.8 | 32.8 | 33.8 | 34.3 | 34.7 | 35.7 | 36.7 |
| 87.5° | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 | 15.9 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 |
| 90° | 10.0 | 9.8 | 9.7 | 9.5 | 9.4 | 9.2 | 8.9 | 8.6 | 8.3 | 8.0 | 7.0 |
| 92.5° | 11.3 | 11.3 | 11.2 | 11.1 | 11.0 | 10.7 | 10.2 | 9.7 | 9.2 | 8.7 | 8.0 |
| 95° | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.4 | 11.9 | 11.4 | 10.8 | 10.3 | 9.5 |
| 97.5° | 13.7 | 13.6 | 13.5 | 13.4 | 13.4 | 13.0 | 12.4 | 11.8 | 11.3 | 10.7 | 14.4 |
| 100° | 14.0 | 13.9 | 13.8 | 13.8 | 13.7 | 13.4 | 12.8 | 12.2 | 11.6 | 11.0 | 22.5 |
| 102.5° | 14.3 | 14.2 | 14.0 | 13.9 | 13.7 | 14.9 | 17.3 | 19.8 | 22.2 | 24.6 | 37.5 |
| 105° | 14.7 | 14.5 | 14.4 | 14.2 | 14.1 | 20.5 | 33.6 | 46.7 | 59.8 | 72.9 | 79.6 |
| 107.5° | 34.6 | 44.3 | 54.0 | 63.7 | 73.4 | 84.0 | 95.4 | 106.8 | 118.2 | 129.6 | 128.5 |
| 110° | 91.6 | 102.2 | 112.8 | 123.3 | 133.9 | 140.4 | 142.9 | 145.3 | 147.8 | 150.2 | 149.4 |

TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 173.5 | 173.7 | 173.8 | 174.0 | 174.1 | 173.9 | 173.2 | 172.5 | 171.9 | 171.2 | 170.4 |
| 115° | 195.8 | 195.5 | 195.3 | 195.0 | 194.7 | 194.1 | 193.4 | 192.7 | 191.9 | 191.2 | 190.5 |
| 117.5° | 213.8 | 213.8 | 213.7 | 213.6 | 213.5 | 213.2 | 212.6 | 212.0 | 211.4 | 210.8 | 210.5 |
| 120° | 232.5 | 232.5 | 232.5 | 232.5 | 232.5 | 232.2 | 231.6 | 231.0 | 230.4 | 229.8 | 229.6 |
| 122.5° | 250.8 | 250.7 | 250.7 | 250.6 | 250.5 | 250.3 | 249.9 | 249.5 | 249.2 | 248.8 | 248.5 |
| 125° | 267.8 | 267.6 | 267.5 | 267.3 | 267.2 | 267.0 | 266.9 | 266.7 | 266.6 | 266.5 | 266.2 |
| 127.5° | 284.4 | 284.6 | 284.7 | 284.9 | 285.0 | 285.0 | 284.8 | 284.5 | 284.3 | 284.1 | 283.7 |
| 130° | 300.4 | 300.6 | 300.7 | 300.9 | 301.0 | 300.9 | 300.6 | 300.4 | 300.1 | 299.8 | 299.5 |
| 132.5° | 315.1 | 315.3 | 315.5 | 315.7 | 316.0 | 315.9 | 315.6 | 315.3 | 315.0 | 314.7 | 314.5 |
| 135° | 330.1 | 330.3 | 330.5 | 330.7 | 331.0 | 331.0 | 330.7 | 330.5 | 330.3 | 330.1 | 329.8 |
| 137.5° | 344.4 | 344.5 | 344.7 | 344.8 | 345.0 | 344.9 | 344.5 | 344.1 | 343.8 | 343.4 | 343.2 |
| 140° | 357.0 | 357.2 | 357.3 | 357.5 | 357.6 | 357.6 | 357.3 | 357.0 | 356.7 | 356.4 | 356.2 |
| 142.5° | 368.7 | 368.9 | 369.1 | 369.4 | 369.6 | 369.6 | 369.4 | 369.1 | 368.9 | 368.7 | 368.5 |
| 145° | 380.7 | 380.7 | 380.7 | 380.7 | 380.7 | 380.6 | 380.5 | 380.3 | 380.2 | 380.0 | 379.9 |
| 147.5° | 389.4 | 389.7 | 390.1 | 390.5 | 390.8 | 390.9 | 390.8 | 390.6 | 390.5 | 390.4 | 390.2 |
| 150° | 399.3 | 399.6 | 399.8 | 400.0 | 400.2 | 400.3 | 400.1 | 400.0 | 399.8 | 399.7 | 399.5 |
| 152.5° | 407.3 | 407.7 | 408.1 | 408.4 | 408.8 | 408.9 | 408.6 | 408.3 | 408.0 | 407.7 | 407.6 |
| 155° | 414.7 | 415.1 | 415.6 | 416.0 | 416.4 | 416.5 | 416.1 | 415.7 | 415.4 | 415.0 | 414.9 |
| 157.5° | 421.0 | 421.6 | 422.2 | 422.8 | 423.4 | 423.4 | 423.0 | 422.5 | 422.1 | 421.7 | 421.7 |
| 160° | 427.0 | 427.5 | 428.0 | 428.5 | 429.1 | 429.1 | 428.7 | 428.2 | 427.8 | 427.3 | 427.4 |
| 162.5° | 432.7 | 433.1 | 433.5 | 434.0 | 434.4 | 434.4 | 433.9 | 433.4 | 432.8 | 432.3 | 432.4 |
| 165° | 437.0 | 437.5 | 438.0 | 438.5 | 439.1 | 439.0 | 438.4 | 437.8 | 437.2 | 436.6 | 436.7 |
| 167.5° | 440.3 | 440.9 | 441.5 | 442.1 | 442.7 | 442.7 | 442.1 | 441.5 | 440.9 | 440.3 | 440.3 |
| 170° | 443.3 | 443.9 | 444.5 | 445.1 | 445.7 | 445.7 | 445.1 | 444.5 | 443.9 | 443.3 | 443.3 |
| 172.5° | 445.0 | 445.6 | 446.3 | 447.0 | 447.6 | 447.7 | 447.1 | 446.5 | 445.9 | 445.3 | 445.2 |
| 175° | 446.6 | 447.2 | 447.8 | 448.4 | 449.0 | 449.0 | 448.5 | 448.0 | 447.5 | 447.0 | 446.9 |
| 177.5° | 447.0 | 447.7 | 448.5 | 449.2 | 449.9 | 450.0 | 449.4 | 448.8 | 448.2 | 447.6 | 447.6 |
| 180° | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 |
| 2.5° | 2224.3 | 2218.5 | 2197.3 | 2176.1 | 2152.0 | 2127.8 | 2110.0 | 2092.1 | 2065.6 | 2039.1 | 2017.3 |
| 5° | 2410.6 | 2383.6 | 2338.7 | 2293.8 | 2233.0 | 2172.2 | 2131.2 | 2090.2 | 2035.2 | 1980.2 | 1936.3 |
| 7.5° | 2558.2 | 2511.9 | 2449.2 | 2386.5 | 2306.8 | 2227.2 | 2152.0 | 2076.7 | 1992.7 | 1908.8 | 1840.3 |
| 10° | 2652.3 | 2620.9 | 2548.6 | 2476.2 | 2369.6 | 2262.9 | 2157.7 | 2052.6 | 1944.5 | 1836.4 | 1745.7 |
| 12.5° | 2661.5 | 2664.4 | 2597.8 | 2531.2 | 2410.6 | 2290.0 | 2162.1 | 2034.2 | 1898.2 | 1762.1 | 1656.4 |
| 15° | 2580.9 | 2630.6 | 2593.9 | 2557.3 | 2435.7 | 2314.1 | 2156.8 | 1999.5 | 1842.7 | 1685.9 | 1563.8 |
| 17.5° | 2431.3 | 2538.0 | 2543.3 | 2548.6 | 2427.0 | 2305.4 | 2131.2 | 1957.0 | 1779.5 | 1601.9 | 1473.6 |
| 20° | 2227.2 | 2384.5 | 2438.6 | 2492.6 | 2393.7 | 2294.8 | 2107.6 | 1920.4 | 1721.6 | 1522.8 | 1388.2 |
| 22.5° | 2018.8 | 2209.9 | 2308.8 | 2407.7 | 2334.3 | 2261.0 | 2061.7 | 1862.5 | 1652.6 | 1442.7 | 1306.1 |
| 25° | 1781.4 | 1989.8 | 2141.8 | 2293.8 | 2248.9 | 2204.1 | 2007.7 | 1811.3 | 1587.9 | 1364.5 | 1225.1 |
| 27.5° | 1574.4 | 1786.2 | 1969.6 | 2152.9 | 2143.3 | 2133.6 | 1938.7 | 1743.8 | 1515.1 | 1286.3 | 1151.7 |
| 30° | 1390.1 | 1587.4 | 1792.5 | 1997.6 | 2021.2 | 2044.8 | 1856.7 | 1668.5 | 1439.3 | 1210.1 | 1080.3 |
| 32.5° | 1227.0 | 1399.3 | 1619.3 | 1839.3 | 1885.6 | 1931.9 | 1762.1 | 1592.3 | 1365.5 | 1138.7 | 1013.7 |
| 35° | 1093.3 | 1249.7 | 1469.7 | 1689.7 | 1747.6 | 1805.5 | 1657.9 | 1510.2 | 1289.2 | 1068.3 | 949.1 |
| 37.5° | 975.1 | 1105.9 | 1320.6 | 1535.3 | 1606.2 | 1677.2 | 1545.0 | 1412.8 | 1205.8 | 998.8 | 889.3 |
| 40° | 877.2 | 982.4 | 1179.7 | 1377.1 | 1459.1 | 1541.1 | 1432.1 | 1323.0 | 1126.6 | 930.3 | 829.4 |
| 42.5° | 795.2 | 888.8 | 1067.8 | 1246.8 | 1325.4 | 1404.1 | 1311.9 | 1219.8 | 1045.1 | 870.4 | 778.3 |
| 45° | 725.2 | 800.0 | 962.6 | 1125.2 | 1200.0 | 1274.8 | 1195.6 | 1116.5 | 962.6 | 808.7 | 722.8 |
| 47.5° | 659.6 | 723.8 | 862.7 | 1001.7 | 1068.3 | 1134.8 | 1073.1 | 1011.3 | 881.0 | 750.8 | 673.1 |
| 50° | 600.7 | 652.3 | 773.9 | 895.5 | 953.4 | 1011.3 | 956.8 | 902.3 | 795.2 | 688.0 | 620.5 |
| 52.5° | 549.6 | 591.5 | 693.4 | 795.2 | 844.9 | 894.6 | 847.8 | 801.0 | 716.0 | 631.1 | 572.2 |
| 55° | 498.9 | 534.6 | 622.9 | 711.2 | 745.0 | 778.8 | 742.6 | 706.4 | 637.9 | 569.4 | 519.7 |
| 57.5° | 451.6 | 483.5 | 555.8 | 628.2 | 654.3 | 680.3 | 647.5 | 614.7 | 563.1 | 511.5 | 470.0 |
| 60° | 405.3 | 431.4 | 491.7 | 552.0 | 567.9 | 583.8 | 557.3 | 530.8 | 494.6 | 458.4 | 421.2 |
| 62.5° | 362.4 | 386.0 | 430.9 | 475.7 | 486.4 | 497.0 | 476.7 | 456.4 | 428.9 | 401.4 | 372.5 |
| 65° | 318.0 | 335.8 | 372.5 | 409.2 | 415.9 | 422.7 | 404.8 | 387.0 | 366.2 | 345.5 | 324.2 |
| 67.5° | 277.0 | 289.5 | 319.4 | 349.3 | 349.8 | 350.3 | 335.8 | 321.3 | 309.8 | 298.2 | 281.3 |
| 70° | 236.9 | 249.0 | 268.8 | 288.5 | 289.0 | 289.5 | 277.9 | 266.3 | 257.7 | 249.0 | 236.4 |
| 72.5° | 195.9 | 204.6 | 219.5 | 234.5 | 233.5 | 232.6 | 225.3 | 218.1 | 211.3 | 204.6 | 195.4 |
| 75° | 158.7 | 166.0 | 176.1 | 186.2 | 183.4 | 180.5 | 176.6 | 172.7 | 166.9 | 161.2 | 155.4 |
| 77.5° | 125.0 | 129.3 | 135.1 | 140.9 | 139.0 | 137.0 | 133.7 | 130.3 | 125.9 | 121.6 | 119.2 |
| 80° | 91.7 | 93.6 | 97.5 | 101.3 | 100.4 | 99.4 | 95.5 | 91.7 | 90.7 | 89.7 | 86.4 |
| 82.5° | 62.2 | 64.7 | 65.6 | 66.6 | 66.1 | 65.6 | 62.7 | 59.8 | 58.9 | 57.9 | 57.4 |
| 85° | 37.2 | 37.6 | 38.1 | 38.6 | 37.2 | 35.7 | 34.7 | 33.8 | 33.8 | 33.8 | 33.3 |
| 87.5° | 16.9 | 17.4 | 17.4 | 17.4 | 16.9 | 16.4 | 15.4 | 14.5 | 15.0 | 15.4 | 15.4 |
| 90° | 6.1 | 5.1 | 4.1 | 3.3 | 2.6 | 1.8 | 1.1 | 0.3 | 1.1 | 1.8 | 2.6 |
| 92.5° | 7.3 | 6.7 | 6.0 | 5.9 | 6.3 | 6.8 | 7.2 | 7.7 | 7.2 | 6.8 | 6.3 |
| 95° | 8.7 | 7.9 | 7.1 | 8.2 | 11.2 | 14.2 | 17.3 | 20.3 | 17.3 | 14.2 | 11.2 |
| 97.5° | 18.2 | 22.0 | 25.8 | 28.7 | 30.8 | 32.8 | 34.9 | 37.0 | 34.9 | 32.8 | 30.8 |
| 100° | 34.1 | 45.6 | 57.2 | 62.2 | 60.7 | 59.2 | 57.8 | 56.3 | 57.8 | 59.2 | 60.7 |
| 102.5° | 50.4 | 63.3 | 76.2 | 82.1 | 81.2 | 80.2 | 79.2 | 78.3 | 79.2 | 80.2 | 81.2 |
| 105° | 86.3 | 92.9 | 99.6 | 102.5 | 101.7 | 100.9 | 100.1 | 99.3 | 100.1 | 100.9 | 101.7 |
| 107.5° | 127.3 | 126.2 | 125.1 | 124.2 | 123.6 | 122.9 | 122.2 | 121.6 | 122.2 | 122.9 | 123.6 |
| 110° | 148.6 | 147.8 | 147.0 | 146.3 | 145.7 | 145.1 | 144.5 | 143.9 | 144.5 | 145.1 | 145.7 |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.6 | 168.8 | 167.9 | 167.3 | 166.8 | 166.2 | 165.7 | 165.2 | 165.7 | 166.2 | 166.8 |
| 115° | 189.8 | 189.2 | 188.5 | 188.0 | 187.5 | 187.1 | 186.6 | 186.2 | 186.6 | 187.1 | 187.5 |
| 117.5° | 210.1 | 209.7 | 209.4 | 208.9 | 208.4 | 207.9 | 207.4 | 206.8 | 207.4 | 207.9 | 208.4 |
| 120° | 229.4 | 229.1 | 228.9 | 228.5 | 227.8 | 227.2 | 226.5 | 225.8 | 226.5 | 227.2 | 227.8 |
| 122.5° | 248.2 | 247.9 | 247.6 | 247.2 | 246.7 | 246.2 | 245.7 | 245.1 | 245.7 | 246.2 | 246.7 |
| 125° | 265.9 | 265.6 | 265.3 | 264.8 | 264.2 | 263.6 | 263.0 | 262.5 | 263.0 | 263.6 | 264.2 |
| 127.5° | 283.4 | 283.0 | 282.6 | 282.1 | 281.6 | 281.0 | 280.4 | 279.8 | 280.4 | 281.0 | 281.6 |
| 130° | 299.2 | 298.9 | 298.6 | 298.1 | 297.5 | 296.9 | 296.4 | 295.8 | 296.4 | 296.9 | 297.5 |
| 132.5° | 314.3 | 314.1 | 313.9 | 313.5 | 312.9 | 312.3 | 311.7 | 311.1 | 311.7 | 312.3 | 312.9 |
| 135° | 329.5 | 329.2 | 328.9 | 328.5 | 328.1 | 327.6 | 327.2 | 326.7 | 327.2 | 327.6 | 328.1 |
| 137.5° | 343.1 | 342.9 | 342.8 | 342.4 | 341.8 | 341.2 | 340.7 | 340.1 | 340.7 | 341.2 | 341.8 |
| 140° | 355.9 | 355.7 | 355.5 | 355.2 | 354.7 | 354.3 | 353.8 | 353.4 | 353.8 | 354.3 | 354.7 |
| 142.5° | 368.3 | 368.0 | 367.8 | 367.5 | 367.0 | 366.6 | 366.2 | 365.7 | 366.2 | 366.6 | 367.0 |
| 145° | 379.7 | 379.6 | 379.4 | 379.1 | 378.6 | 378.1 | 377.5 | 377.0 | 377.5 | 378.1 | 378.6 |
| 147.5° | 390.1 | 389.9 | 389.8 | 389.5 | 389.1 | 388.8 | 388.4 | 388.0 | 388.4 | 388.8 | 389.1 |
| 150° | 399.4 | 399.2 | 399.1 | 398.9 | 398.7 | 398.5 | 398.2 | 398.0 | 398.2 | 398.5 | 398.7 |
| 152.5° | 407.5 | 407.5 | 407.4 | 407.3 | 407.2 | 407.2 | 407.1 | 407.0 | 407.1 | 407.2 | 407.2 |
| 155° | 414.9 | 414.8 | 414.7 | 414.7 | 414.9 | 415.0 | 415.2 | 415.3 | 415.2 | 415.0 | 414.9 |
| 157.5° | 421.8 | 421.9 | 422.0 | 422.0 | 422.0 | 422.0 | 422.0 | 422.0 | 422.0 | 422.0 | 422.0 |
| 160° | 427.5 | 427.5 | 427.6 | 427.7 | 427.8 | 427.8 | 427.9 | 428.0 | 427.9 | 427.8 | 427.8 |
| 162.5° | 432.5 | 432.5 | 432.6 | 432.8 | 433.0 | 433.2 | 433.4 | 433.7 | 433.4 | 433.2 | 433.0 |
| 165° | 436.8 | 436.9 | 436.9 | 437.1 | 437.3 | 437.5 | 437.8 | 438.0 | 437.8 | 437.5 | 437.3 |
| 167.5° | 440.3 | 440.3 | 440.3 | 440.5 | 440.8 | 441.1 | 441.3 | 441.6 | 441.3 | 441.1 | 440.8 |
| 170° | 443.3 | 443.3 | 443.3 | 443.5 | 443.8 | 444.1 | 444.3 | 444.6 | 444.3 | 444.1 | 443.8 |
| 172.5° | 445.2 | 445.1 | 445.0 | 445.2 | 445.5 | 445.9 | 446.3 | 446.6 | 446.3 | 445.9 | 445.5 |
| 175° | 446.8 | 446.8 | 446.7 | 446.8 | 447.2 | 447.6 | 447.9 | 448.3 | 447.9 | 447.6 | 447.2 |
| 177.5° | 447.5 | 447.4 | 447.3 | 447.5 | 447.9 | 448.2 | 448.6 | 449.0 | 448.6 | 448.2 | 447.9 |
| 180° | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 |

TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 |
| 2.5° | 1995.6 | 1976.8 | 1958.0 | 1943.5 | 1929.0 | 1904.4 | 1879.8 | 1874.0 | 1868.2 | 1860.0 | 1851.8 |
| 5° | 1892.4 | 1846.1 | 1799.7 | 1758.2 | 1716.7 | 1684.4 | 1652.1 | 1630.9 | 1609.6 | 1594.2 | 1578.7 |
| 7.5° | 1771.7 | 1702.3 | 1632.8 | 1583.6 | 1534.4 | 1487.6 | 1440.7 | 1425.8 | 1410.8 | 1390.6 | 1370.3 |
| 10° | 1655.0 | 1578.3 | 1501.5 | 1437.4 | 1373.2 | 1327.4 | 1281.5 | 1263.2 | 1244.9 | 1219.3 | 1193.7 |
| 12.5° | 1550.8 | 1466.8 | 1382.8 | 1318.2 | 1253.5 | 1209.1 | 1164.8 | 1138.2 | 1111.7 | 1097.2 | 1082.7 |
| 15° | 1441.7 | 1352.0 | 1262.2 | 1202.4 | 1142.6 | 1102.5 | 1062.5 | 1039.3 | 1016.1 | 1002.2 | 988.2 |
| 17.5° | 1345.2 | 1256.4 | 1167.7 | 1110.2 | 1052.8 | 1016.1 | 979.5 | 959.2 | 938.9 | 928.3 | 917.7 |
| 20° | 1253.5 | 1166.7 | 1079.8 | 1023.9 | 967.9 | 938.0 | 908.1 | 895.0 | 882.0 | 873.3 | 864.6 |
| 22.5° | 1169.6 | 1084.2 | 998.8 | 951.0 | 903.2 | 879.1 | 855.0 | 845.8 | 836.7 | 829.4 | 822.2 |
| 25° | 1085.6 | 1009.4 | 933.2 | 892.6 | 852.1 | 832.3 | 812.5 | 803.4 | 794.2 | 787.0 | 779.7 |
| 27.5° | 1017.1 | 944.3 | 871.4 | 836.7 | 801.9 | 786.5 | 771.0 | 763.8 | 756.6 | 749.8 | 743.1 |
| 30° | 950.5 | 885.4 | 820.3 | 790.3 | 760.4 | 746.4 | 732.4 | 725.2 | 718.0 | 711.7 | 705.4 |
| 32.5° | 888.8 | 832.8 | 776.8 | 749.3 | 721.8 | 710.2 | 698.7 | 690.0 | 681.3 | 676.5 | 671.6 |
| 35° | 829.9 | 779.7 | 729.5 | 706.9 | 684.2 | 672.6 | 661.0 | 653.8 | 646.6 | 642.7 | 638.8 |
| 37.5° | 779.7 | 734.8 | 690.0 | 668.3 | 646.6 | 635.5 | 624.4 | 618.1 | 611.8 | 610.4 | 608.9 |
| 40° | 728.6 | 690.0 | 651.4 | 630.1 | 608.9 | 599.3 | 589.6 | 585.8 | 581.9 | 580.9 | 580.0 |
| 42.5° | 686.1 | 648.5 | 610.8 | 591.5 | 572.2 | 564.0 | 555.8 | 553.9 | 552.0 | 553.4 | 554.9 |
| 45° | 636.9 | 605.5 | 574.2 | 556.3 | 538.5 | 531.7 | 525.0 | 523.5 | 522.1 | 525.0 | 527.9 |
| 47.5° | 595.4 | 566.5 | 537.5 | 520.6 | 503.7 | 498.9 | 494.1 | 493.6 | 493.1 | 497.0 | 500.8 |
| 50° | 552.9 | 525.0 | 497.0 | 483.5 | 470.0 | 465.6 | 461.3 | 462.7 | 464.2 | 470.4 | 476.7 |
| 52.5° | 513.4 | 487.3 | 461.3 | 448.7 | 436.2 | 433.3 | 430.4 | 433.8 | 437.1 | 443.9 | 450.7 |
| 55° | 470.0 | 446.3 | 422.7 | 413.0 | 403.4 | 400.5 | 397.6 | 404.3 | 411.1 | 417.4 | 423.6 |
| 57.5° | 428.5 | 407.7 | 387.0 | 378.3 | 369.6 | 369.1 | 368.6 | 374.9 | 381.2 | 387.9 | 394.7 |
| 60° | 384.1 | 366.7 | 349.3 | 342.6 | 335.8 | 336.8 | 337.8 | 345.0 | 352.2 | 357.5 | 362.8 |
| 62.5° | 343.5 | 329.1 | 314.6 | 308.3 | 302.0 | 304.5 | 306.9 | 314.1 | 321.3 | 327.6 | 333.9 |
| 65° | 303.0 | 290.9 | 278.9 | 274.5 | 270.2 | 273.6 | 277.0 | 283.2 | 289.5 | 293.8 | 298.2 |
| 67.5° | 264.4 | 254.3 | 244.1 | 240.8 | 237.4 | 240.8 | 244.1 | 250.4 | 256.7 | 261.0 | 265.4 |
| 70° | 223.9 | 215.7 | 207.5 | 205.1 | 202.7 | 206.5 | 210.4 | 215.7 | 221.0 | 225.3 | 229.7 |
| 72.5° | 186.2 | 180.0 | 173.7 | 173.2 | 172.7 | 176.1 | 179.5 | 184.8 | 190.1 | 193.0 | 195.9 |
| 75° | 149.6 | 146.2 | 142.8 | 142.3 | 141.9 | 145.2 | 148.6 | 151.5 | 154.4 | 156.8 | 159.2 |
| 77.5° | 116.8 | 113.9 | 111.0 | 111.5 | 111.9 | 114.4 | 116.8 | 119.7 | 122.6 | 124.0 | 125.5 |
| 80° | 83.0 | 82.0 | 81.1 | 82.0 | 83.0 | 84.9 | 86.9 | 88.8 | 90.7 | 91.7 | 92.6 |
| 82.5° | 56.9 | 56.0 | 55.0 | 56.5 | 57.9 | 59.3 | 60.8 | 62.2 | 63.7 | 64.2 | 64.7 |
| 85° | 32.8 | 34.3 | 35.7 | 35.7 | 35.7 | 36.2 | 36.7 | 37.2 | 37.6 | 37.2 | 36.7 |
| 87.5° | 15.4 | 15.9 | 16.4 | 16.4 | 16.4 | 16.9 | 17.4 | 17.4 | 17.4 | 16.9 | 16.4 |
| 90° | 3.3 | 4.1 | 5.1 | 6.1 | 7.0 | 8.0 | 8.3 | 8.6 | 8.9 | 9.2 | 9.4 |
| 92.5° | 5.9 | 6.0 | 6.7 | 7.3 | 8.0 | 8.7 | 9.2 | 9.7 | 10.2 | 10.7 | 11.0 |
| 95° | 8.2 | 7.1 | 7.9 | 8.7 | 9.5 | 10.3 | 10.8 | 11.4 | 11.9 | 12.4 | 12.7 |
| 97.5° | 28.7 | 25.8 | 22.0 | 18.2 | 14.4 | 10.7 | 11.3 | 11.8 | 12.4 | 13.0 | 13.4 |
| 100° | 62.2 | 57.2 | 45.6 | 34.1 | 22.5 | 11.0 | 11.6 | 12.2 | 12.8 | 13.4 | 13.7 |
| 102.5° | 82.1 | 76.2 | 63.3 | 50.4 | 37.5 | 24.6 | 22.2 | 19.8 | 17.3 | 14.9 | 13.7 |
| 105° | 102.5 | 99.6 | 92.9 | 86.3 | 79.6 | 72.9 | 59.8 | 46.7 | 33.6 | 20.5 | 14.1 |
| 107.5° | 124.2 | 125.1 | 126.2 | 127.3 | 128.5 | 129.6 | 118.2 | 106.8 | 95.4 | 84.0 | 73.4 |
| 110° | 146.3 | 147.0 | 147.8 | 148.6 | 149.4 | 150.2 | 147.8 | 145.3 | 142.9 | 140.4 | 133.9 |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 167.3 | 167.9 | 168.8 | 169.6 | 170.4 | 171.2 | 171.9 | 172.5 | 173.2 | 173.9 | 174.1 |
| 115° | 188.0 | 188.5 | 189.2 | 189.8 | 190.5 | 191.2 | 191.9 | 192.7 | 193.4 | 194.1 | 194.7 |
| 117.5° | 208.9 | 209.4 | 209.7 | 210.1 | 210.5 | 210.8 | 211.4 | 212.0 | 212.6 | 213.2 | 213.5 |
| 120° | 228.5 | 228.9 | 229.1 | 229.4 | 229.6 | 229.8 | 230.4 | 231.0 | 231.6 | 232.2 | 232.5 |
| 122.5° | 247.2 | 247.6 | 247.9 | 248.2 | 248.5 | 248.8 | 249.2 | 249.5 | 249.9 | 250.3 | 250.5 |
| 125° | 264.8 | 265.3 | 265.6 | 265.9 | 266.2 | 266.5 | 266.6 | 266.7 | 266.9 | 267.0 | 267.2 |
| 127.5° | 282.1 | 282.6 | 283.0 | 283.4 | 283.7 | 284.1 | 284.3 | 284.5 | 284.8 | 285.0 | 285.0 |
| 130° | 298.1 | 298.6 | 298.9 | 299.2 | 299.5 | 299.8 | 300.1 | 300.4 | 300.6 | 300.9 | 301.0 |
| 132.5° | 313.5 | 313.9 | 314.1 | 314.3 | 314.5 | 314.7 | 315.0 | 315.3 | 315.6 | 315.9 | 316.0 |
| 135° | 328.5 | 328.9 | 329.2 | 329.5 | 329.8 | 330.1 | 330.3 | 330.5 | 330.7 | 331.0 | 331.0 |
| 137.5° | 342.4 | 342.8 | 342.9 | 343.1 | 343.2 | 343.4 | 343.8 | 344.1 | 344.5 | 344.9 | 345.0 |
| 140° | 355.2 | 355.5 | 355.7 | 355.9 | 356.2 | 356.4 | 356.7 | 357.0 | 357.3 | 357.6 | 357.6 |
| 142.5° | 367.5 | 367.8 | 368.0 | 368.3 | 368.5 | 368.7 | 368.9 | 369.1 | 369.4 | 369.6 | 369.6 |
| 145° | 379.1 | 379.4 | 379.6 | 379.7 | 379.9 | 380.0 | 380.2 | 380.3 | 380.5 | 380.6 | 380.7 |
| 147.5° | 389.5 | 389.8 | 389.9 | 390.1 | 390.2 | 390.4 | 390.5 | 390.6 | 390.8 | 390.9 | 390.8 |
| 150° | 398.9 | 399.1 | 399.2 | 399.4 | 399.5 | 399.7 | 399.8 | 400.0 | 400.1 | 400.3 | 400.2 |
| 152.5° | 407.3 | 407.4 | 407.5 | 407.5 | 407.6 | 407.7 | 408.0 | 408.3 | 408.6 | 408.9 | 408.8 |
| 155° | 414.7 | 414.7 | 414.8 | 414.9 | 414.9 | 415.0 | 415.4 | 415.7 | 416.1 | 416.5 | 416.4 |
| 157.5° | 422.0 | 422.0 | 421.9 | 421.8 | 421.7 | 421.7 | 422.1 | 422.5 | 423.0 | 423.4 | 423.4 |
| 160° | 427.7 | 427.6 | 427.5 | 427.5 | 427.4 | 427.3 | 427.8 | 428.2 | 428.7 | 429.1 | 429.1 |
| 162.5° | 432.8 | 432.6 | 432.5 | 432.5 | 432.4 | 432.3 | 432.8 | 433.4 | 433.9 | 434.4 | 434.4 |
| 165° | 437.1 | 436.9 | 436.9 | 436.8 | 436.7 | 436.6 | 437.2 | 437.8 | 438.4 | 439.0 | 439.1 |
| 167.5° | 440.5 | 440.3 | 440.3 | 440.3 | 440.3 | 440.3 | 440.9 | 441.5 | 442.1 | 442.7 | 442.7 |
| 170° | 443.5 | 443.3 | 443.3 | 443.3 | 443.3 | 443.3 | 443.9 | 444.5 | 445.1 | 445.7 | 445.7 |
| 172.5° | 445.2 | 445.0 | 445.1 | 445.2 | 445.2 | 445.3 | 445.9 | 446.5 | 447.1 | 447.7 | 447.6 |
| 175° | 446.8 | 446.7 | 446.8 | 446.8 | 446.9 | 447.0 | 447.5 | 448.0 | 448.5 | 449.0 | 449.0 |
| 177.5° | 447.5 | 447.3 | 447.4 | 447.5 | 447.6 | 447.6 | 448.2 | 448.8 | 449.4 | 450.0 | 449.9 |
| 180° | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 2079.6 | 2079.6 | 2079.6 | 2079.6 |
| 2.5° | 1848.5 | 1845.1 | 1831.6 | 1818.1 |
| 5° | 1567.2 | 1555.6 | 1551.7 | 1547.9 |
| 7.5° | 1369.3 | 1368.4 | 1348.1 | 1327.8 |
| 10° | 1195.2 | 1196.6 | 1178.3 | 1159.9 |
| 12.5° | 1070.7 | 1058.6 | 1057.2 | 1055.7 |
| 15° | 977.1 | 966.0 | 964.0 | 962.1 |
| 17.5° | 911.0 | 904.2 | 902.3 | 900.3 |
| 20° | 860.8 | 856.9 | 853.5 | 850.2 |
| 22.5° | 817.4 | 812.5 | 809.6 | 806.7 |
| 25° | 775.4 | 771.0 | 770.1 | 769.1 |
| 27.5° | 737.7 | 732.4 | 732.4 | 732.4 |
| 30° | 702.0 | 698.7 | 697.2 | 695.8 |
| 32.5° | 668.7 | 665.9 | 665.9 | 665.9 |
| 35° | 637.4 | 635.9 | 634.0 | 632.1 |
| 37.5° | 608.9 | 608.9 | 608.0 | 607.0 |
| 40° | 581.4 | 582.9 | 582.9 | 582.9 |
| 42.5° | 556.3 | 557.8 | 557.8 | 557.8 |
| 45° | 530.3 | 532.7 | 533.6 | 534.6 |
| 47.5° | 504.7 | 508.6 | 509.5 | 510.5 |
| 50° | 479.6 | 482.5 | 483.0 | 483.5 |
| 52.5° | 454.0 | 457.4 | 459.8 | 462.2 |
| 55° | 427.0 | 430.4 | 431.8 | 433.3 |
| 57.5° | 398.1 | 401.4 | 401.9 | 402.4 |
| 60° | 366.2 | 369.6 | 370.6 | 371.5 |
| 62.5° | 335.8 | 337.8 | 338.7 | 339.7 |
| 65° | 301.1 | 304.0 | 305.9 | 307.8 |
| 67.5° | 267.8 | 270.2 | 270.2 | 270.2 |
| 70° | 230.6 | 231.6 | 233.0 | 234.5 |
| 72.5° | 196.4 | 196.9 | 196.9 | 196.9 |
| 75° | 160.2 | 161.2 | 161.6 | 162.1 |
| 77.5° | 125.9 | 126.4 | 126.4 | 126.4 |
| 80° | 92.2 | 91.7 | 91.7 | 91.7 |
| 82.5° | 63.2 | 61.8 | 61.8 | 61.8 |
| 85° | 36.2 | 35.7 | 36.2 | 36.7 |
| 87.5° | 16.4 | 16.4 | 16.4 | 16.4 |
| 90° | 9.5 | 9.7 | 9.8 | 10.0 |
| 92.5° | 11.1 | 11.2 | 11.3 | 11.3 |
| 95° | 12.7 | 12.7 | 12.7 | 12.7 |
| 97.5° | 13.4 | 13.5 | 13.6 | 13.7 |
| 100° | 13.8 | 13.8 | 13.9 | 14.0 |
| 102.5° | 13.9 | 14.0 | 14.2 | 14.3 |
| 105° | 14.2 | 14.4 | 14.5 | 14.7 |
| 107.5° | 63.7 | 54.0 | 44.3 | 34.6 |
| 110° | 123.3 | 112.8 | 102.2 | 91.6 |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 174.0 | 173.8 | 173.7 | 173.5 |
| 115° | 195.0 | 195.3 | 195.5 | 195.8 |
| 117.5° | 213.6 | 213.7 | 213.8 | 213.8 |
| 120° | 232.5 | 232.5 | 232.5 | 232.5 |
| 122.5° | 250.6 | 250.7 | 250.7 | 250.8 |
| 125° | 267.3 | 267.5 | 267.6 | 267.8 |
| 127.5° | 284.9 | 284.7 | 284.6 | 284.4 |
| 130° | 300.9 | 300.7 | 300.6 | 300.4 |
| 132.5° | 315.7 | 315.5 | 315.3 | 315.1 |
| 135° | 330.7 | 330.5 | 330.3 | 330.1 |
| 137.5° | 344.8 | 344.7 | 344.5 | 344.4 |
| 140° | 357.5 | 357.3 | 357.2 | 357.0 |
| 142.5° | 369.4 | 369.1 | 368.9 | 368.7 |
| 145° | 380.7 | 380.7 | 380.7 | 380.7 |
| 147.5° | 390.5 | 390.1 | 389.7 | 389.4 |
| 150° | 400.0 | 399.8 | 399.6 | 399.3 |
| 152.5° | 408.4 | 408.1 | 407.7 | 407.3 |
| 155° | 416.0 | 415.6 | 415.1 | 414.7 |
| 157.5° | 422.8 | 422.2 | 421.6 | 421.0 |
| 160° | 428.5 | 428.0 | 427.5 | 427.0 |
| 162.5° | 434.0 | 433.5 | 433.1 | 432.7 |
| 165° | 438.5 | 438.0 | 437.5 | 437.0 |
| 167.5° | 442.1 | 441.5 | 440.9 | 440.3 |
| 170° | 445.1 | 444.5 | 443.9 | 443.3 |
| 172.5° | 447.0 | 446.3 | 445.6 | 445.0 |
| 175° | 448.4 | 447.8 | 447.2 | 446.6 |
| 177.5° | 449.2 | 448.5 | 447.7 | 447.0 |
| 180° | 448.3 | 448.3 | 448.3 | 448.3 |



TEST NUMBER: P831639

CATALOG NUMBER: S123DIP-S775D365U830-4F0-1E-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 | 16.14 | 17.17 | 16.90 | 17.95 | 18.89 | 18.38 | 19.41 | 19.14 | 20.18 | 21.12 |
| | 3H | 17.80 | 18.72 | 18.57 | 19.51 | 20.48 | 19.81 | 20.74 | 20.59 | 21.52 | 22.49 |
| | 4H | 18.38 | 19.25 | 19.18 | 20.05 | 21.03 | 20.27 | 21.14 | 21.06 | 21.94 | 22.92 |
| | 6H | 18.76 | 19.56 | 19.57 | 20.37 | 21.36 | 20.56 | 21.36 | 21.36 | 22.16 | 23.16 |
| | 8H | 18.86 | 19.63 | 19.68 | 20.45 | 21.45 | 20.62 | 21.38 | 21.44 | 22.21 | 23.20 |
| | 12H | 18.91 | 19.64 | 19.73 | 20.46 | 21.48 | 20.65 | 21.37 | 21.47 | 22.19 | 23.21 |
| 4H | 2H | 16.73 | 17.60 | 17.53 | 18.40 | 19.38 | 18.56 | 19.43 | 19.36 | 20.23 | 21.21 |
| | 3H | 18.58 | 19.30 | 19.39 | 20.13 | 21.13 | 20.19 | 20.92 | 21.00 | 21.75 | 22.74 |
| | 4H | 19.28 | 19.94 | 20.10 | 20.77 | 21.80 | 20.78 | 21.44 | 21.60 | 22.27 | 23.30 |
| | 6H | 19.77 | 20.33 | 20.61 | 21.19 | 22.22 | 21.20 | 21.76 | 22.04 | 22.62 | 23.65 |
| | 8H | 19.91 | 20.44 | 20.75 | 21.29 | 22.33 | 21.31 | 21.84 | 22.15 | 22.69 | 23.73 |
| | 12H | 19.98 | 20.46 | 20.84 | 21.33 | 22.38 | 21.36 | 21.84 | 22.23 | 22.71 | 23.76 |
| 8H | 4H | 19.56 | 20.09 | 20.40 | 20.94 | 21.98 | 20.90 | 21.43 | 21.74 | 22.28 | 23.32 |
| | 6H | 20.16 | 20.59 | 21.03 | 21.48 | 22.53 | 21.41 | 21.85 | 22.28 | 22.74 | 23.78 |
| | 8H | 20.36 | 20.75 | 21.25 | 21.64 | 22.70 | 21.59 | 21.98 | 22.47 | 22.87 | 23.93 |
| | 12H | 20.50 | 20.84 | 21.38 | 21.71 | 22.83 | 21.70 | 22.04 | 22.58 | 22.92 | 24.03 |
| 12H | 4H | 19.57 | 20.05 | 20.43 | 20.92 | 21.96 | 20.88 | 21.36 | 21.75 | 22.23 | 23.28 |
| | 6H | 20.21 | 20.60 | 21.09 | 21.48 | 22.54 | 21.42 | 21.81 | 22.31 | 22.70 | 23.76 |
| | 8H | 20.45 | 20.79 | 21.33 | 21.67 | 22.78 | 21.63 | 21.97 | 22.52 | 22.85 | 23.97 |