

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: P831666

Luminaire Tested: S123DIP-S775D585U830-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831666  
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-S775D585U830-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

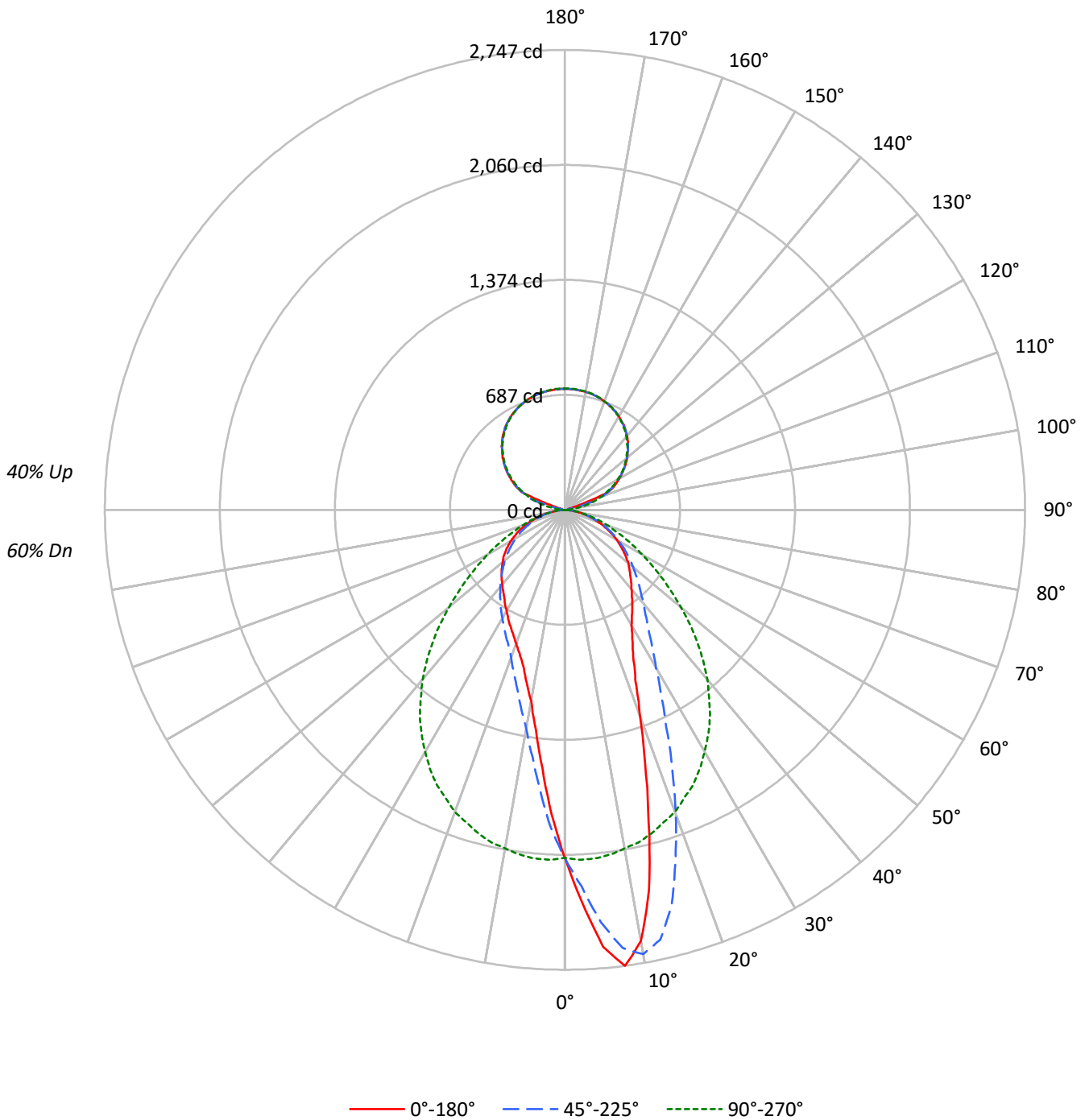
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5550.2 lumens  
Efficiency: N/A  
Efficacy: 135.0 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): 41.1  
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: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-UDD-G

### Luminous Intensity Polar Plot





TEST NUMBER: P831666

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**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   | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 66 | 66 | 66 | 60 |   |
| 1   | 101 | 97  | 93  | 89  | 94  | 90  | 87  | 84  | 79 | 77 | 74 | 69 | 67 | 65 | 59 | 58 | 57 | 57 | 57 | 57 | 52 |   |
| 2   | 92  | 85  | 79  | 74  | 86  | 80  | 75  | 70  | 70 | 66 | 63 | 61 | 58 | 56 | 53 | 51 | 49 | 49 | 49 | 49 | 45 |   |
| 3   | 85  | 76  | 68  | 63  | 79  | 71  | 65  | 60  | 63 | 58 | 54 | 55 | 51 | 48 | 47 | 45 | 42 | 42 | 42 | 42 | 39 |   |
| 4   | 78  | 67  | 60  | 54  | 73  | 64  | 57  | 51  | 56 | 51 | 47 | 49 | 45 | 42 | 43 | 40 | 37 | 37 | 37 | 37 | 34 |   |
| 5   | 72  | 61  | 53  | 47  | 67  | 57  | 50  | 45  | 51 | 45 | 41 | 45 | 40 | 37 | 39 | 36 | 33 | 33 | 33 | 33 | 30 |   |
| 6   | 67  | 55  | 47  | 41  | 62  | 52  | 45  | 40  | 46 | 40 | 36 | 41 | 36 | 33 | 36 | 32 | 30 | 30 | 30 | 30 | 27 |   |
| 7   | 62  | 50  | 42  | 37  | 58  | 47  | 40  | 35  | 42 | 37 | 32 | 38 | 33 | 30 | 33 | 30 | 27 | 27 | 27 | 27 | 24 |   |
| 8   | 58  | 46  | 38  | 33  | 54  | 43  | 36  | 32  | 39 | 33 | 29 | 35 | 30 | 27 | 31 | 27 | 24 | 24 | 24 | 24 | 22 |   |
| 9   | 54  | 42  | 35  | 30  | 51  | 40  | 33  | 29  | 36 | 30 | 27 | 32 | 28 | 24 | 29 | 25 | 22 | 22 | 22 | 22 | 20 |   |
| 10  | 51  | 39  | 32  | 27  | 48  | 37  | 31  | 26  | 33 | 28 | 24 | 30 | 26 | 22 | 27 | 23 | 21 | 21 | 21 | 21 | 19 |   |

**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



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.6  | 3.5       |
| 10°-20°   | 489.1  | 8.8       |
| 20°-30°   | 579.1  | 10.4      |
| 30°-40°   | 582.3  | 10.5      |
| 40°-50°   | 534.2  | 9.6       |
| 50°-60°   | 440.9  | 7.9       |
| 60°-70°   | 311.9  | 5.6       |
| 70°-80°   | 166.5  | 3.0       |
| 80°-90°   | 43.7   | 0.8       |
| 90°-100°  | 25.5   | 0.5       |
| 100°-110° | 123.3  | 2.2       |
| 110°-120° | 302.3  | 5.4       |
| 120°-130° | 383.8  | 6.9       |
| 130°-140° | 410.0  | 7.4       |
| 140°-150° | 383.4  | 6.9       |
| 150°-160° | 309.2  | 5.6       |
| 160°-170° | 199.6  | 3.6       |
| 170°-180° | 68.8   | 1.2       |
| 0°-30°    | 1264.8 | 22.8      |
| 0°-40°    | 1847.1 | 33.3      |
| 0°-60°    | 2822.3 | 50.9      |
| 0°-90°    | 3344.4 | 60.3      |
| 90°-120°  | 451.1  | 8.1       |
| 90°-150°  | 1628.3 | 29.3      |
| 90°-180°  | 2206.0 | 39.7      |
| 0°-180°   | 5550.2 | 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°  | 16   | 13   | 0    | 13   | 16   | 9    |
| 95°  | 20   | 17   | 33   | 17   | 20   | 17   |
| 105° | 24   | 118  | 160  | 118  | 24   | 49   |
| 115° | 316  | 309  | 300  | 309  | 316  | 297  |
| 125° | 432  | 430  | 424  | 430  | 432  | 386  |
| 135° | 533  | 533  | 527  | 533  | 533  | 411  |
| 145° | 614  | 613  | 608  | 613  | 614  | 384  |
| 155° | 669  | 670  | 670  | 670  | 669  | 309  |
| 165° | 705  | 705  | 707  | 705  | 705  | 199  |
| 175° | 721  | 721  | 724  | 721  | 721  | 69   |
| 180° | 724  | 724  | 724  | 724  | 724  |      |



TEST NUMBER: P831666

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**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°    | 16.1   | 15.9   | 15.6   | 15.4   | 15.2   | 14.8   | 14.3   | 13.9   | 13.4   | 12.9   | 11.3   |
| 92.5°  | 18.3   | 18.2   | 18.0   | 17.9   | 17.8   | 17.3   | 16.5   | 15.6   | 14.8   | 14.0   | 12.9   |
| 95°    | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 20.0   | 19.2   | 18.3   | 17.5   | 16.7   | 15.4   |
| 97.5°  | 22.0   | 21.9   | 21.8   | 21.7   | 21.6   | 21.0   | 20.1   | 19.1   | 18.2   | 17.2   | 23.3   |
| 100°   | 22.6   | 22.5   | 22.3   | 22.2   | 22.1   | 21.6   | 20.6   | 19.7   | 18.7   | 17.7   | 36.4   |
| 102.5° | 23.1   | 22.9   | 22.6   | 22.4   | 22.2   | 24.0   | 28.0   | 31.9   | 35.8   | 39.8   | 60.6   |
| 105°   | 23.7   | 23.4   | 23.2   | 22.9   | 22.7   | 33.2   | 54.3   | 75.4   | 96.6   | 117.7  | 128.5  |
| 107.5° | 55.9   | 71.6   | 87.2   | 102.9  | 118.5  | 135.5  | 153.9  | 172.3  | 190.7  | 209.1  | 207.3  |
| 110°   | 147.8  | 164.9  | 182.0  | 199.1  | 216.2  | 226.7  | 230.6  | 234.6  | 238.5  | 242.5  | 241.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 280.1 | 280.3 | 280.6 | 280.8 | 281.0 | 280.6 | 279.5 | 278.5 | 277.4 | 276.3 | 275.0 |
| 115°   | 316.1 | 315.6 | 315.1 | 314.7 | 314.2 | 313.4 | 312.2 | 311.0 | 309.8 | 308.6 | 307.5 |
| 117.5° | 345.1 | 345.0 | 344.9 | 344.8 | 344.7 | 344.1 | 343.2 | 342.2 | 341.2 | 340.3 | 339.7 |
| 120°   | 375.2 | 375.2 | 375.2 | 375.2 | 375.2 | 374.8 | 373.8 | 372.8 | 371.9 | 370.9 | 370.6 |
| 122.5° | 404.8 | 404.7 | 404.6 | 404.4 | 404.3 | 404.0 | 403.4 | 402.8 | 402.2 | 401.6 | 401.1 |
| 125°   | 432.2 | 432.0 | 431.7 | 431.5 | 431.3 | 431.0 | 430.8 | 430.5 | 430.3 | 430.1 | 429.6 |
| 127.5° | 459.1 | 459.3 | 459.6 | 459.8 | 460.1 | 460.0 | 459.6 | 459.3 | 458.9 | 458.6 | 458.0 |
| 130°   | 484.9 | 485.1 | 485.4 | 485.6 | 485.9 | 485.7 | 485.3 | 484.8 | 484.3 | 483.8 | 483.3 |
| 132.5° | 508.6 | 508.9 | 509.3 | 509.6 | 510.0 | 509.9 | 509.5 | 509.0 | 508.5 | 508.0 | 507.7 |
| 135°   | 532.7 | 533.1 | 533.5 | 533.8 | 534.2 | 534.2 | 533.8 | 533.5 | 533.1 | 532.7 | 532.3 |
| 137.5° | 555.9 | 556.1 | 556.3 | 556.6 | 556.8 | 556.6 | 556.0 | 555.4 | 554.8 | 554.2 | 554.0 |
| 140°   | 576.3 | 576.5 | 576.8 | 577.0 | 577.2 | 577.1 | 576.6 | 576.2 | 575.7 | 575.2 | 574.9 |
| 142.5° | 595.1 | 595.5 | 595.8 | 596.2 | 596.5 | 596.5 | 596.2 | 595.8 | 595.5 | 595.1 | 594.7 |
| 145°   | 614.5 | 614.5 | 614.5 | 614.5 | 614.5 | 614.3 | 614.1 | 613.9 | 613.6 | 613.4 | 613.1 |
| 147.5° | 628.4 | 629.0 | 629.6 | 630.2 | 630.8 | 631.0 | 630.8 | 630.5 | 630.3 | 630.0 | 629.8 |
| 150°   | 644.6 | 644.9 | 645.3 | 645.6 | 646.0 | 646.1 | 645.8 | 645.6 | 645.3 | 645.1 | 644.9 |
| 152.5° | 657.5 | 658.1 | 658.7 | 659.3 | 659.9 | 659.9 | 659.4 | 659.0 | 658.5 | 658.0 | 657.9 |
| 155°   | 669.3 | 670.0 | 670.7 | 671.4 | 672.2 | 672.2 | 671.6 | 671.0 | 670.4 | 669.8 | 669.7 |
| 157.5° | 679.5 | 680.5 | 681.4 | 682.4 | 683.3 | 683.4 | 682.7 | 682.0 | 681.3 | 680.6 | 680.7 |
| 160°   | 689.2 | 690.0 | 690.9 | 691.7 | 692.5 | 692.6 | 691.9 | 691.2 | 690.4 | 689.7 | 689.8 |
| 162.5° | 698.3 | 699.0 | 699.8 | 700.5 | 701.2 | 701.1 | 700.3 | 699.5 | 698.6 | 697.8 | 697.9 |
| 165°   | 705.3 | 706.1 | 707.0 | 707.8 | 708.7 | 708.6 | 707.6 | 706.7 | 705.7 | 704.8 | 704.9 |
| 167.5° | 710.7 | 711.6 | 712.6 | 713.6 | 714.5 | 714.5 | 713.6 | 712.6 | 711.6 | 710.7 | 710.7 |
| 170°   | 715.5 | 716.5 | 717.4 | 718.4 | 719.3 | 719.3 | 718.4 | 717.4 | 716.5 | 715.5 | 715.5 |
| 172.5° | 718.2 | 719.3 | 720.4 | 721.4 | 722.5 | 722.6 | 721.6 | 720.7 | 719.7 | 718.8 | 718.6 |
| 175°   | 720.9 | 721.9 | 722.8 | 723.8 | 724.7 | 724.8 | 723.9 | 723.1 | 722.3 | 721.4 | 721.3 |
| 177.5° | 721.4 | 722.6 | 723.8 | 725.0 | 726.2 | 726.3 | 725.4 | 724.4 | 723.5 | 722.5 | 722.4 |
| 180°   | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 |



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CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-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°    | 9.8    | 8.2    | 6.7    | 5.3    | 4.1    | 2.9    | 1.7    | 0.5    | 1.7    | 2.9    | 4.1    |
| 92.5°  | 11.8   | 10.8   | 9.7    | 9.5    | 10.2   | 10.9   | 11.6   | 12.4   | 11.6   | 10.9   | 10.2   |
| 95°    | 14.0   | 12.7   | 11.4   | 13.2   | 18.1   | 23.0   | 27.9   | 32.8   | 27.9   | 23.0   | 18.1   |
| 97.5°  | 29.4   | 35.5   | 41.6   | 46.3   | 49.6   | 53.0   | 56.3   | 59.7   | 56.3   | 53.0   | 49.6   |
| 100°   | 55.0   | 73.6   | 92.3   | 100.4  | 98.0   | 95.6   | 93.2   | 90.9   | 93.2   | 95.6   | 98.0   |
| 102.5° | 81.4   | 102.1  | 122.9  | 132.5  | 131.0  | 129.4  | 127.9  | 126.3  | 127.9  | 129.4  | 131.0  |
| 105°   | 139.2  | 150.0  | 160.7  | 165.5  | 164.1  | 162.8  | 161.5  | 160.2  | 161.5  | 162.8  | 164.1  |
| 107.5° | 205.5  | 203.7  | 202.0  | 200.5  | 199.4  | 198.4  | 197.3  | 196.2  | 197.3  | 198.4  | 199.4  |
| 110°   | 239.8  | 238.5  | 237.2  | 236.1  | 235.1  | 234.1  | 233.2  | 232.2  | 233.2  | 234.1  | 235.1  |





TEST NUMBER: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 273.7 | 272.4 | 271.1 | 270.0 | 269.2 | 268.3 | 267.5 | 266.6 | 267.5 | 268.3 | 269.2 |
| 115°   | 306.4 | 305.3 | 304.3 | 303.4 | 302.7 | 301.9 | 301.2 | 300.5 | 301.2 | 301.9 | 302.7 |
| 117.5° | 339.1 | 338.5 | 337.9 | 337.2 | 336.3 | 335.5 | 334.7 | 333.8 | 334.7 | 335.5 | 336.3 |
| 120°   | 370.2 | 369.9 | 369.5 | 368.8 | 367.7 | 366.6 | 365.6 | 364.5 | 365.6 | 366.6 | 367.7 |
| 122.5° | 400.6 | 400.1 | 399.7 | 399.0 | 398.2 | 397.3 | 396.5 | 395.7 | 396.5 | 397.3 | 398.2 |
| 125°   | 429.1 | 428.6 | 428.2 | 427.4 | 426.5 | 425.5 | 424.6 | 423.6 | 424.6 | 425.5 | 426.5 |
| 127.5° | 457.4 | 456.8 | 456.2 | 455.4 | 454.4 | 453.5 | 452.5 | 451.6 | 452.5 | 453.5 | 454.4 |
| 130°   | 482.9 | 482.4 | 481.9 | 481.2 | 480.2 | 479.3 | 478.3 | 477.4 | 478.3 | 479.3 | 480.2 |
| 132.5° | 507.3 | 506.9 | 506.6 | 505.9 | 505.0 | 504.0 | 503.1 | 502.1 | 503.1 | 504.0 | 505.0 |
| 135°   | 531.8 | 531.3 | 530.8 | 530.2 | 529.5 | 528.8 | 528.1 | 527.4 | 528.1 | 528.8 | 529.5 |
| 137.5° | 553.8 | 553.5 | 553.3 | 552.7 | 551.7 | 550.8 | 549.8 | 548.9 | 549.8 | 550.8 | 551.7 |
| 140°   | 574.5 | 574.1 | 573.8 | 573.2 | 572.5 | 571.8 | 571.1 | 570.4 | 571.1 | 571.8 | 572.5 |
| 142.5° | 594.4 | 594.0 | 593.7 | 593.1 | 592.4 | 591.7 | 591.0 | 590.3 | 591.0 | 591.7 | 592.4 |
| 145°   | 612.9 | 612.7 | 612.4 | 611.9 | 611.1 | 610.2 | 609.4 | 608.5 | 609.4 | 610.2 | 611.1 |
| 147.5° | 629.6 | 629.3 | 629.1 | 628.7 | 628.1 | 627.5 | 626.9 | 626.3 | 626.9 | 627.5 | 628.1 |
| 150°   | 644.6 | 644.4 | 644.1 | 643.8 | 643.5 | 643.1 | 642.8 | 642.4 | 642.8 | 643.1 | 643.5 |
| 152.5° | 657.8 | 657.6 | 657.5 | 657.4 | 657.3 | 657.2 | 657.0 | 656.9 | 657.0 | 657.2 | 657.3 |
| 155°   | 669.6 | 669.5 | 669.4 | 669.4 | 669.7 | 669.9 | 670.1 | 670.4 | 670.1 | 669.9 | 669.7 |
| 157.5° | 680.8 | 680.9 | 681.1 | 681.1 | 681.1 | 681.1 | 681.1 | 681.1 | 681.1 | 681.1 | 681.1 |
| 160°   | 690.0 | 690.1 | 690.2 | 690.3 | 690.4 | 690.6 | 690.7 | 690.8 | 690.7 | 690.6 | 690.4 |
| 162.5° | 698.0 | 698.1 | 698.3 | 698.5 | 698.9 | 699.2 | 699.6 | 699.9 | 699.6 | 699.2 | 698.9 |
| 165°   | 705.0 | 705.1 | 705.3 | 705.5 | 705.8 | 706.2 | 706.6 | 706.9 | 706.6 | 706.2 | 705.8 |
| 167.5° | 710.7 | 710.7 | 710.7 | 710.9 | 711.4 | 711.9 | 712.4 | 712.8 | 712.4 | 711.9 | 711.4 |
| 170°   | 715.5 | 715.5 | 715.5 | 715.8 | 716.2 | 716.7 | 717.2 | 717.7 | 717.2 | 716.7 | 716.2 |
| 172.5° | 718.5 | 718.4 | 718.3 | 718.5 | 719.1 | 719.7 | 720.3 | 720.9 | 720.3 | 719.7 | 719.1 |
| 175°   | 721.2 | 721.1 | 721.0 | 721.2 | 721.8 | 722.4 | 723.0 | 723.6 | 723.0 | 722.4 | 721.8 |
| 177.5° | 722.3 | 722.2 | 722.0 | 722.3 | 722.9 | 723.5 | 724.1 | 724.7 | 724.1 | 723.5 | 722.9 |
| 180°   | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 |



TEST NUMBER: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-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°    | 5.3    | 6.7    | 8.2    | 9.8    | 11.3   | 12.9   | 13.4   | 13.9   | 14.3   | 14.8   | 15.2   |
| 92.5°  | 9.5    | 9.7    | 10.8   | 11.8   | 12.9   | 14.0   | 14.8   | 15.6   | 16.5   | 17.3   | 17.8   |
| 95°    | 13.2   | 11.4   | 12.7   | 14.0   | 15.4   | 16.7   | 17.5   | 18.3   | 19.2   | 20.0   | 20.4   |
| 97.5°  | 46.3   | 41.6   | 35.5   | 29.4   | 23.3   | 17.2   | 18.2   | 19.1   | 20.1   | 21.0   | 21.6   |
| 100°   | 100.4  | 92.3   | 73.6   | 55.0   | 36.4   | 17.7   | 18.7   | 19.7   | 20.6   | 21.6   | 22.1   |
| 102.5° | 132.5  | 122.9  | 102.1  | 81.4   | 60.6   | 39.8   | 35.8   | 31.9   | 28.0   | 24.0   | 22.2   |
| 105°   | 165.5  | 160.7  | 150.0  | 139.2  | 128.5  | 117.7  | 96.6   | 75.4   | 54.3   | 33.2   | 22.7   |
| 107.5° | 200.5  | 202.0  | 203.7  | 205.5  | 207.3  | 209.1  | 190.7  | 172.3  | 153.9  | 135.5  | 118.5  |
| 110°   | 236.1  | 237.2  | 238.5  | 239.8  | 241.1  | 242.5  | 238.5  | 234.6  | 230.6  | 226.7  | 216.2  |



TEST NUMBER: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 270.0 | 271.1 | 272.4 | 273.7 | 275.0 | 276.3 | 277.4 | 278.5 | 279.5 | 280.6 | 281.0 |
| 115°   | 303.4 | 304.3 | 305.3 | 306.4 | 307.5 | 308.6 | 309.8 | 311.0 | 312.2 | 313.4 | 314.2 |
| 117.5° | 337.2 | 337.9 | 338.5 | 339.1 | 339.7 | 340.3 | 341.2 | 342.2 | 343.2 | 344.1 | 344.7 |
| 120°   | 368.8 | 369.5 | 369.9 | 370.2 | 370.6 | 370.9 | 371.9 | 372.8 | 373.8 | 374.8 | 375.2 |
| 122.5° | 399.0 | 399.7 | 400.1 | 400.6 | 401.1 | 401.6 | 402.2 | 402.8 | 403.4 | 404.0 | 404.3 |
| 125°   | 427.4 | 428.2 | 428.6 | 429.1 | 429.6 | 430.1 | 430.3 | 430.5 | 430.8 | 431.0 | 431.3 |
| 127.5° | 455.4 | 456.2 | 456.8 | 457.4 | 458.0 | 458.6 | 458.9 | 459.3 | 459.6 | 460.0 | 460.1 |
| 130°   | 481.2 | 481.9 | 482.4 | 482.9 | 483.3 | 483.8 | 484.3 | 484.8 | 485.3 | 485.7 | 485.9 |
| 132.5° | 505.9 | 506.6 | 506.9 | 507.3 | 507.7 | 508.0 | 508.5 | 509.0 | 509.5 | 509.9 | 510.0 |
| 135°   | 530.2 | 530.8 | 531.3 | 531.8 | 532.3 | 532.7 | 533.1 | 533.5 | 533.8 | 534.2 | 534.2 |
| 137.5° | 552.7 | 553.3 | 553.5 | 553.8 | 554.0 | 554.2 | 554.8 | 555.4 | 556.0 | 556.6 | 556.8 |
| 140°   | 573.2 | 573.8 | 574.1 | 574.5 | 574.9 | 575.2 | 575.7 | 576.2 | 576.6 | 577.1 | 577.2 |
| 142.5° | 593.1 | 593.7 | 594.0 | 594.4 | 594.7 | 595.1 | 595.5 | 595.8 | 596.2 | 596.5 | 596.5 |
| 145°   | 611.9 | 612.4 | 612.7 | 612.9 | 613.1 | 613.4 | 613.6 | 613.9 | 614.1 | 614.3 | 614.5 |
| 147.5° | 628.7 | 629.1 | 629.3 | 629.6 | 629.8 | 630.0 | 630.3 | 630.5 | 630.8 | 631.0 | 630.8 |
| 150°   | 643.8 | 644.1 | 644.4 | 644.6 | 644.9 | 645.1 | 645.3 | 645.6 | 645.8 | 646.1 | 646.0 |
| 152.5° | 657.4 | 657.5 | 657.6 | 657.8 | 657.9 | 658.0 | 658.5 | 659.0 | 659.4 | 659.9 | 659.9 |
| 155°   | 669.4 | 669.4 | 669.5 | 669.6 | 669.7 | 669.8 | 670.4 | 671.0 | 671.6 | 672.2 | 672.2 |
| 157.5° | 681.1 | 681.1 | 680.9 | 680.8 | 680.7 | 680.6 | 681.3 | 682.0 | 682.7 | 683.4 | 683.3 |
| 160°   | 690.3 | 690.2 | 690.1 | 690.0 | 689.8 | 689.7 | 690.4 | 691.2 | 691.9 | 692.6 | 692.5 |
| 162.5° | 698.5 | 698.3 | 698.1 | 698.0 | 697.9 | 697.8 | 698.6 | 699.5 | 700.3 | 701.1 | 701.2 |
| 165°   | 705.5 | 705.3 | 705.1 | 705.0 | 704.9 | 704.8 | 705.7 | 706.7 | 707.6 | 708.6 | 708.7 |
| 167.5° | 710.9 | 710.7 | 710.7 | 710.7 | 710.7 | 710.7 | 711.6 | 712.6 | 713.6 | 714.5 | 714.5 |
| 170°   | 715.8 | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 | 716.5 | 717.4 | 718.4 | 719.3 | 719.3 |
| 172.5° | 718.5 | 718.3 | 718.4 | 718.5 | 718.6 | 718.8 | 719.7 | 720.7 | 721.6 | 722.6 | 722.5 |
| 175°   | 721.2 | 721.0 | 721.1 | 721.2 | 721.3 | 721.4 | 722.3 | 723.1 | 723.9 | 724.8 | 724.7 |
| 177.5° | 722.3 | 722.0 | 722.2 | 722.3 | 722.4 | 722.5 | 723.5 | 724.4 | 725.4 | 726.3 | 726.2 |
| 180°   | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 | 723.6 |



TEST NUMBER: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-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°    | 15.4   | 15.6   | 15.9   | 16.1   |
| 92.5°  | 17.9   | 18.0   | 18.2   | 18.3   |
| 95°    | 20.4   | 20.4   | 20.4   | 20.4   |
| 97.5°  | 21.7   | 21.8   | 21.9   | 22.0   |
| 100°   | 22.2   | 22.3   | 22.5   | 22.6   |
| 102.5° | 22.4   | 22.6   | 22.9   | 23.1   |
| 105°   | 22.9   | 23.2   | 23.4   | 23.7   |
| 107.5° | 102.9  | 87.2   | 71.6   | 55.9   |
| 110°   | 199.1  | 182.0  | 164.9  | 147.8  |



TEST NUMBER: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 280.8 | 280.6 | 280.3 | 280.1 |
| 115°   | 314.7 | 315.1 | 315.6 | 316.1 |
| 117.5° | 344.8 | 344.9 | 345.0 | 345.1 |
| 120°   | 375.2 | 375.2 | 375.2 | 375.2 |
| 122.5° | 404.4 | 404.6 | 404.7 | 404.8 |
| 125°   | 431.5 | 431.7 | 432.0 | 432.2 |
| 127.5° | 459.8 | 459.6 | 459.3 | 459.1 |
| 130°   | 485.6 | 485.4 | 485.1 | 484.9 |
| 132.5° | 509.6 | 509.3 | 508.9 | 508.6 |
| 135°   | 533.8 | 533.5 | 533.1 | 532.7 |
| 137.5° | 556.6 | 556.3 | 556.1 | 555.9 |
| 140°   | 577.0 | 576.8 | 576.5 | 576.3 |
| 142.5° | 596.2 | 595.8 | 595.5 | 595.1 |
| 145°   | 614.5 | 614.5 | 614.5 | 614.5 |
| 147.5° | 630.2 | 629.6 | 629.0 | 628.4 |
| 150°   | 645.6 | 645.3 | 644.9 | 644.6 |
| 152.5° | 659.3 | 658.7 | 658.1 | 657.5 |
| 155°   | 671.4 | 670.7 | 670.0 | 669.3 |
| 157.5° | 682.4 | 681.4 | 680.5 | 679.5 |
| 160°   | 691.7 | 690.9 | 690.0 | 689.2 |
| 162.5° | 700.5 | 699.8 | 699.0 | 698.3 |
| 165°   | 707.8 | 707.0 | 706.1 | 705.3 |
| 167.5° | 713.6 | 712.6 | 711.6 | 710.7 |
| 170°   | 718.4 | 717.4 | 716.5 | 715.5 |
| 172.5° | 721.4 | 720.4 | 719.3 | 718.2 |
| 175°   | 723.8 | 722.8 | 721.9 | 720.9 |
| 177.5° | 725.0 | 723.8 | 722.6 | 721.4 |
| 180°   | 723.6 | 723.6 | 723.6 | 723.6 |



TEST NUMBER: P831666

CATALOG NUMBER: S123DIP-S775D585U830-4F0-1E-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 | 15.28            | 16.19 | 16.15 | 17.08 | 18.20 | 17.51          | 18.43 | 18.38 | 19.32 | 20.44 |
|                 | 3H   | 16.93            | 17.75 | 17.81 | 18.64 | 19.79 | 18.94          | 19.76 | 19.83 | 20.66 | 21.80 |
|                 | 4H   | 17.51            | 18.28 | 18.41 | 19.18 | 20.34 | 19.39          | 20.17 | 20.29 | 21.07 | 22.23 |
|                 | 6H   | 17.88            | 18.59 | 18.79 | 19.50 | 20.67 | 19.67          | 20.39 | 20.58 | 21.29 | 22.46 |
|                 | 8H   | 17.98            | 18.66 | 18.90 | 19.58 | 20.75 | 19.74          | 20.41 | 20.66 | 21.34 | 22.51 |
|                 | 12H  | 18.03            | 18.67 | 18.95 | 19.59 | 20.78 | 19.76          | 20.40 | 20.68 | 21.32 | 22.52 |
| 4H              | 2H   | 15.86            | 16.63 | 16.76 | 17.53 | 18.69 | 17.68          | 18.46 | 18.59 | 19.36 | 20.52 |
|                 | 3H   | 17.69            | 18.34 | 18.61 | 19.27 | 20.44 | 19.31          | 19.95 | 20.22 | 20.88 | 22.06 |
|                 | 4H   | 18.39            | 18.98 | 19.32 | 19.91 | 21.10 | 19.89          | 20.48 | 20.82 | 21.41 | 22.61 |
|                 | 6H   | 18.87            | 19.38 | 19.81 | 20.33 | 21.53 | 20.30          | 20.81 | 21.24 | 21.76 | 22.96 |
|                 | 8H   | 19.01            | 19.48 | 19.95 | 20.43 | 21.64 | 20.41          | 20.88 | 21.35 | 21.83 | 23.04 |
|                 | 12H  | 19.08            | 19.50 | 20.04 | 20.47 | 21.68 | 20.46          | 20.89 | 21.42 | 21.85 | 23.07 |
| 8H              | 4H   | 18.66            | 19.13 | 19.60 | 20.08 | 21.29 | 20.00          | 20.47 | 20.94 | 21.42 | 22.63 |
|                 | 6H   | 19.25            | 19.64 | 20.22 | 20.63 | 21.84 | 20.51          | 20.90 | 21.47 | 21.89 | 23.09 |
|                 | 8H   | 19.46            | 19.80 | 20.44 | 20.78 | 22.01 | 20.69          | 21.03 | 21.66 | 22.01 | 23.24 |
|                 | 12H  | 19.59            | 19.89 | 20.57 | 20.86 | 22.14 | 20.79          | 21.09 | 21.77 | 22.07 | 23.34 |
| 12H             | 4H   | 18.66            | 19.09 | 19.63 | 20.05 | 21.27 | 19.98          | 20.40 | 20.94 | 21.37 | 22.58 |
|                 | 6H   | 19.30            | 19.65 | 20.28 | 20.63 | 21.85 | 20.52          | 20.87 | 21.50 | 21.84 | 23.07 |
|                 | 8H   | 19.54            | 19.84 | 20.52 | 20.81 | 22.09 | 20.72          | 21.03 | 21.70 | 22.00 | 23.27 |