

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: P831692

Luminaire Tested: S123DIP-S775D585U950-4F0-1E-UDD-G4

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831692  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D585U950-4F0-1E-UDD-G4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: -

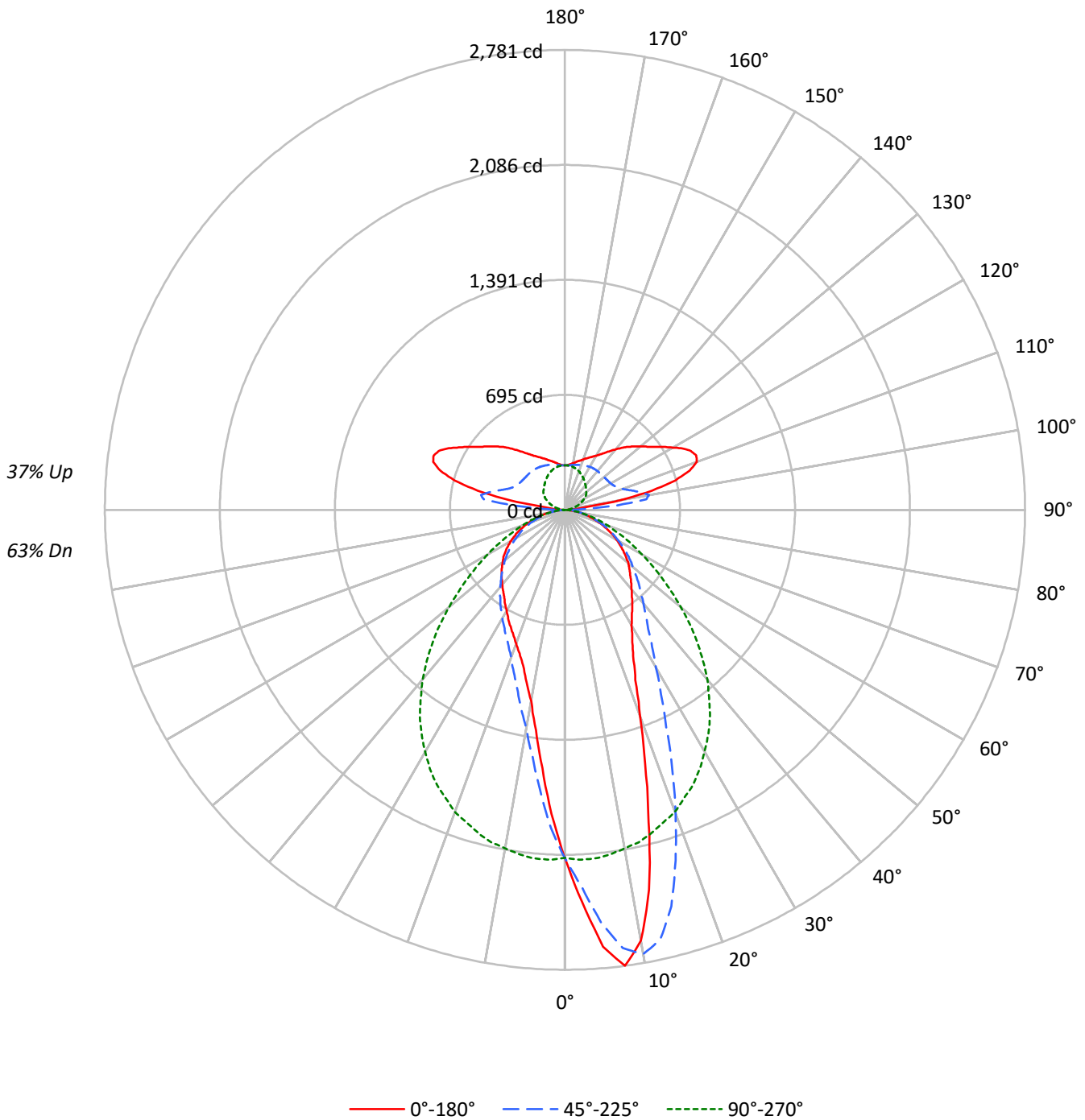
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5407.1 lumens  
Efficiency: N/A  
Efficacy: 131.6 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: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

### Luminous Intensity Polar Plot





TEST NUMBER: P831692

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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 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 79 | 79 | 79 | 68 | 68 | 68 | 63 |    |    |    |   |
| 1   | 101 | 97  | 93  | 90  | 95  | 91  | 88  | 85  | 80 | 78 | 76 | 70 | 68 | 67 | 61 | 60 | 58 | 54 |    |    |    |   |
| 2   | 93  | 86  | 80  | 75  | 87  | 81  | 75  | 71  | 71 | 67 | 64 | 62 | 59 | 57 | 54 | 52 | 50 | 46 |    |    |    |   |
| 3   | 85  | 76  | 69  | 63  | 80  | 72  | 65  | 60  | 63 | 59 | 55 | 56 | 52 | 49 | 49 | 46 | 44 | 40 |    |    |    |   |
| 4   | 78  | 68  | 60  | 54  | 73  | 64  | 57  | 52  | 57 | 52 | 47 | 50 | 46 | 43 | 44 | 41 | 38 | 35 |    |    |    |   |
| 5   | 72  | 61  | 53  | 47  | 68  | 58  | 51  | 45  | 52 | 46 | 42 | 46 | 41 | 38 | 40 | 37 | 34 | 31 |    |    |    |   |
| 6   | 67  | 55  | 47  | 42  | 63  | 52  | 45  | 40  | 47 | 41 | 37 | 42 | 37 | 34 | 37 | 33 | 31 | 28 |    |    |    |   |
| 7   | 62  | 50  | 43  | 37  | 59  | 48  | 41  | 36  | 43 | 37 | 33 | 38 | 34 | 30 | 34 | 31 | 28 | 25 |    |    |    |   |
| 8   | 58  | 46  | 39  | 33  | 55  | 44  | 37  | 32  | 40 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 | 23 |    |    |    |   |
| 9   | 54  | 42  | 35  | 30  | 51  | 40  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 25 | 30 | 26 | 23 | 21 |    |    |    |   |
| 10  | 51  | 39  | 32  | 27  | 48  | 37  | 31  | 27  | 34 | 29 | 25 | 31 | 26 | 23 | 28 | 24 | 21 | 19 |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 22657 | 22657 | 22657 | 22657 | 22657 |
| 5°  | 28653 | 27044 | 22859 | 18421 | 16928 |
| 10° | 28931 | 29806 | 22707 | 14684 | 12832 |
| 15° | 21790 | 27673 | 22552 | 12435 | 10852 |
| 20° | 15182 | 22393 | 22265 | 10875 | 9857  |
| 25° | 11577 | 17221 | 21773 | 10005 | 9246  |
| 30° | 10015 | 13682 | 20990 | 9390  | 8753  |
| 35° | 9293  | 11552 | 20086 | 8946  | 8407  |
| 40° | 8798  | 10361 | 18816 | 8524  | 8289  |
| 45° | 8505  | 9590  | 17203 | 8193  | 8237  |
| 50° | 8358  | 8979  | 15292 | 7892  | 8194  |
| 55° | 8047  | 8533  | 13418 | 7606  | 8231  |
| 60° | 7759  | 8054  | 11565 | 7339  | 8094  |
| 65° | 7289  | 7600  | 9976  | 7053  | 7936  |
| 70° | 6732  | 7024  | 8485  | 6578  | 7468  |
| 75° | 6093  | 6297  | 7270  | 6114  | 6825  |
| 80° | 5027  | 5511  | 5752  | 5331  | 5752  |
| 85° | 3977  | 4458  | 4224  | 4520  | 4582  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 19642 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 199.0  | 3.7       |
| 10°-20°   | 495.1  | 9.2       |
| 20°-30°   | 586.2  | 10.8      |
| 30°-40°   | 589.4  | 10.9      |
| 40°-50°   | 540.7  | 10.0      |
| 50°-60°   | 446.3  | 8.3       |
| 60°-70°   | 315.7  | 5.8       |
| 70°-80°   | 168.5  | 3.1       |
| 80°-90°   | 44.2   | 0.8       |
| 90°-100°  | 145.9  | 2.7       |
| 100°-110° | 427.0  | 7.9       |
| 110°-120° | 417.0  | 7.7       |
| 120°-130° | 332.1  | 6.1       |
| 130°-140° | 262.0  | 4.8       |
| 140°-150° | 195.5  | 3.6       |
| 150°-160° | 136.3  | 2.5       |
| 160°-170° | 80.1   | 1.5       |
| 170°-180° | 26.0   | 0.5       |
| 0°-30°    | 1280.2 | 23.7      |
| 0°-40°    | 1869.6 | 34.6      |
| 0°-60°    | 2856.6 | 52.8      |
| 0°-90°    | 3385.1 | 62.6      |
| 90°-120°  | 989.9  | 18.3      |
| 90°-150°  | 1779.6 | 32.9      |
| 90°-180°  | 2022.0 | 37.4      |
| 0°-180°   | 5407.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2105 | 2105 | 2105 | 2105 | 2105 |      |
| 5°   | 2652 | 2503 | 2116 | 1705 | 1567 | 253  |
| 15°  | 1955 | 2483 | 2024 | 1116 | 974  | 540  |
| 25°  | 975  | 1450 | 1833 | 842  | 778  | 460  |
| 35°  | 707  | 879  | 1529 | 681  | 640  | 444  |
| 45°  | 559  | 630  | 1130 | 538  | 541  | 433  |
| 55°  | 429  | 455  | 715  | 405  | 439  | 384  |
| 65°  | 286  | 298  | 392  | 277  | 312  | 284  |
| 75°  | 146  | 151  | 175  | 147  | 164  | 154  |
| 85°  | 32   | 36   | 34   | 37   | 37   | 36   |
| 90°  | 16   | 14   | 1    | 14   | 16   | 10   |
| 95°  | 63   | 323  | 18   | 323  | 63   | 103  |
| 105° | 692  | 438  | 63   | 438  | 692  | 691  |
| 115° | 842  | 335  | 112  | 335  | 842  | 821  |
| 125° | 664  | 312  | 155  | 312  | 664  | 601  |
| 135° | 538  | 308  | 182  | 308  | 538  | 417  |
| 145° | 421  | 304  | 207  | 304  | 421  | 267  |
| 155° | 349  | 294  | 236  | 294  | 349  | 163  |
| 165° | 304  | 282  | 257  | 282  | 304  | 87   |
| 175° | 274  | 270  | 268  | 270  | 274  | 27   |
| 180° | 269  | 269  | 269  | 269  | 269  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 2372.5 | 2370.0 | 2367.6 | 2355.4 | 2343.2 | 2337.3 | 2331.5 | 2313.9 | 2296.3 | 2276.8 | 2257.2 |
| 5°     | 2651.8 | 2658.7 | 2665.5 | 2657.7 | 2649.9 | 2625.9 | 2602.0 | 2570.3 | 2538.5 | 2502.9 | 2467.2 |
| 7.5°   | 2780.8 | 2784.7 | 2788.6 | 2783.7 | 2778.8 | 2772.5 | 2766.1 | 2737.8 | 2709.5 | 2672.8 | 2636.2 |
| 10°    | 2646.9 | 2655.7 | 2664.5 | 2683.6 | 2702.6 | 2724.1 | 2745.6 | 2741.7 | 2737.8 | 2727.0 | 2716.3 |
| 12.5°  | 2353.0 | 2363.7 | 2374.4 | 2412.5 | 2450.6 | 2499.5 | 2548.3 | 2590.3 | 2632.3 | 2661.6 | 2690.9 |
| 15°    | 1955.4 | 1985.2 | 2015.0 | 2049.7 | 2084.3 | 2156.1 | 2227.9 | 2316.3 | 2404.7 | 2483.3 | 2562.0 |
| 17.5°  | 1610.6 | 1621.9 | 1633.1 | 1670.2 | 1707.3 | 1797.7 | 1888.0 | 1990.1 | 2092.2 | 2222.6 | 2353.0 |
| 20°    | 1325.4 | 1335.7 | 1345.9 | 1394.8 | 1443.6 | 1514.4 | 1585.2 | 1700.0 | 1814.8 | 1954.9 | 2095.1 |
| 22.5°  | 1113.5 | 1129.6 | 1145.7 | 1173.1 | 1200.4 | 1268.3 | 1336.2 | 1438.2 | 1540.3 | 1695.1 | 1849.9 |
| 25°    | 974.8  | 986.5  | 998.2  | 1014.8 | 1031.4 | 1085.6 | 1139.8 | 1223.8 | 1307.8 | 1450.0 | 1592.1 |
| 27.5°  | 880.0  | 884.9  | 889.8  | 906.4  | 923.0  | 958.2  | 993.3  | 1065.6 | 1137.9 | 1258.5 | 1379.1 |
| 30°    | 805.8  | 809.2  | 812.6  | 827.3  | 841.9  | 865.9  | 889.8  | 942.1  | 994.3  | 1100.8 | 1207.2 |
| 32.5°  | 754.0  | 756.5  | 758.9  | 770.2  | 781.4  | 798.5  | 815.6  | 853.7  | 891.8  | 979.7  | 1067.6 |
| 35°    | 707.2  | 708.6  | 710.1  | 718.4  | 726.7  | 739.4  | 752.1  | 780.9  | 809.7  | 879.1  | 948.4  |
| 37.5°  | 666.1  | 668.1  | 670.0  | 674.9  | 679.8  | 691.0  | 702.3  | 725.2  | 748.2  | 801.4  | 854.6  |
| 40°    | 626.1  | 629.5  | 632.9  | 636.3  | 639.8  | 649.0  | 658.3  | 675.9  | 693.5  | 737.4  | 781.4  |
| 42.5°  | 591.9  | 595.3  | 598.7  | 600.2  | 601.7  | 607.0  | 612.4  | 628.5  | 644.6  | 677.4  | 710.1  |
| 45°    | 558.7  | 560.2  | 561.6  | 563.1  | 564.6  | 568.9  | 573.3  | 587.5  | 601.7  | 630.0  | 658.3  |
| 47.5°  | 528.4  | 528.4  | 528.4  | 529.4  | 530.4  | 534.3  | 538.2  | 548.4  | 558.7  | 580.7  | 602.6  |
| 50°    | 499.1  | 499.1  | 499.1  | 497.6  | 496.2  | 498.6  | 501.1  | 508.9  | 516.7  | 536.2  | 555.8  |
| 52.5°  | 463.9  | 463.9  | 463.9  | 464.4  | 464.9  | 464.9  | 464.9  | 471.8  | 478.6  | 496.2  | 513.8  |
| 55°    | 428.8  | 430.7  | 432.7  | 431.2  | 429.8  | 430.7  | 431.7  | 436.1  | 440.5  | 454.7  | 468.8  |
| 57.5°  | 393.6  | 394.6  | 395.6  | 395.1  | 394.6  | 395.1  | 395.6  | 399.5  | 403.4  | 414.1  | 424.9  |
| 60°    | 360.4  | 360.4  | 360.4  | 359.4  | 358.5  | 359.4  | 360.4  | 362.4  | 364.3  | 374.1  | 383.9  |
| 62.5°  | 323.3  | 323.8  | 324.3  | 324.8  | 325.3  | 324.3  | 323.3  | 325.7  | 328.2  | 335.5  | 342.8  |
| 65°    | 286.2  | 286.7  | 287.2  | 288.6  | 290.1  | 289.1  | 288.1  | 290.6  | 293.0  | 298.4  | 303.8  |
| 67.5°  | 253.0  | 252.0  | 251.0  | 251.5  | 252.0  | 253.5  | 254.9  | 255.4  | 255.9  | 261.8  | 267.6  |
| 70°    | 213.9  | 214.9  | 215.9  | 215.4  | 214.9  | 215.4  | 215.9  | 217.3  | 218.8  | 223.2  | 227.6  |
| 72.5°  | 178.7  | 179.2  | 179.7  | 179.7  | 179.7  | 180.7  | 181.7  | 183.1  | 184.6  | 187.0  | 189.5  |
| 75°    | 146.5  | 146.5  | 146.5  | 147.5  | 148.5  | 149.0  | 149.4  | 149.4  | 149.4  | 151.4  | 153.3  |
| 77.5°  | 111.3  | 113.8  | 116.2  | 115.7  | 115.3  | 116.2  | 117.2  | 118.7  | 120.1  | 121.1  | 122.1  |
| 80°    | 81.1   | 81.1   | 81.1   | 81.6   | 82.0   | 83.5   | 85.0   | 86.0   | 86.9   | 88.9   | 90.8   |
| 82.5°  | 51.8   | 52.3   | 52.7   | 54.2   | 55.7   | 56.7   | 57.6   | 59.1   | 60.6   | 60.6   | 60.6   |
| 85°    | 32.2   | 31.3   | 30.3   | 31.3   | 32.2   | 33.2   | 34.2   | 34.7   | 35.2   | 36.1   | 37.1   |
| 87.5°  | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 16.1   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 90°    | 15.8   | 16.3   | 15.8   | 15.2   | 15.8   | 14.7   | 14.1   | 13.6   | 13.1   | 13.6   | 12.0   |
| 92.5°  | 28.8   | 29.9   | 29.4   | 31.6   | 32.6   | 36.5   | 41.9   | 53.9   | 75.6   | 101.2  | 112.1  |
| 95°    | 63.1   | 65.3   | 69.1   | 74.0   | 84.3   | 103.9  | 132.8  | 195.9  | 261.7  | 322.7  | 287.3  |
| 97.5°  | 129.5  | 135.5  | 148.5  | 169.2  | 205.7  | 267.7  | 339.5  | 450.0  | 513.1  | 496.3  | 370.6  |
| 100°   | 341.2  | 340.6  | 361.9  | 401.6  | 456.5  | 533.8  | 597.5  | 641.5  | 622.5  | 515.3  | 348.2  |
| 102.5° | 540.3  | 556.1  | 573.0  | 602.4  | 642.1  | 684.0  | 714.5  | 705.2  | 627.9  | 479.9  | 315.6  |
| 105°   | 692.1  | 694.9  | 712.3  | 733.0  | 758.0  | 772.1  | 761.8  | 707.4  | 593.7  | 437.5  | 290.0  |
| 107.5° | 791.2  | 797.2  | 804.2  | 814.0  | 817.3  | 802.6  | 760.2  | 674.7  | 544.7  | 399.9  | 271.5  |
| 110°   | 847.8  | 848.9  | 849.9  | 845.6  | 830.4  | 792.3  | 723.7  | 623.6  | 499.0  | 368.9  | 261.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 859.2 | 858.6 | 853.2 | 837.4 | 806.4 | 754.7 | 675.8 | 573.0 | 459.3 | 348.2 | 256.3 |
| 115°   | 841.8 | 839.1 | 828.2 | 804.2 | 763.4 | 704.1 | 624.1 | 529.4 | 428.8 | 334.6 | 255.7 |
| 117.5° | 803.7 | 799.9 | 783.6 | 756.9 | 714.5 | 653.0 | 579.5 | 495.7 | 408.6 | 325.4 | 256.3 |
| 120°   | 753.6 | 750.4 | 737.3 | 706.8 | 663.8 | 608.9 | 543.6 | 470.1 | 393.4 | 319.4 | 258.5 |
| 122.5° | 706.8 | 702.5 | 687.8 | 661.1 | 624.1 | 574.1 | 514.8 | 450.0 | 380.9 | 315.6 | 262.3 |
| 125°   | 663.8 | 660.0 | 646.4 | 622.5 | 587.7 | 544.1 | 491.9 | 432.6 | 370.6 | 312.3 | 266.1 |
| 127.5° | 626.8 | 623.6 | 611.1 | 590.4 | 558.8 | 518.6 | 470.7 | 416.8 | 360.8 | 310.7 | 270.4 |
| 130°   | 596.4 | 592.0 | 580.6 | 561.0 | 532.2 | 495.2 | 451.1 | 402.1 | 353.1 | 309.1 | 274.8 |
| 132.5° | 566.4 | 563.7 | 553.9 | 534.3 | 507.7 | 472.9 | 432.6 | 388.5 | 346.1 | 308.5 | 278.1 |
| 135°   | 538.2 | 534.3 | 524.5 | 508.2 | 481.6 | 450.5 | 415.2 | 376.5 | 340.1 | 308.0 | 281.3 |
| 137.5° | 508.2 | 505.0 | 496.8 | 479.9 | 457.1 | 429.3 | 397.8 | 365.1 | 334.6 | 306.9 | 283.5 |
| 140°   | 476.7 | 477.2 | 468.5 | 453.3 | 432.6 | 409.2 | 383.1 | 355.3 | 329.7 | 306.3 | 285.7 |
| 142.5° | 447.3 | 447.8 | 440.2 | 427.1 | 410.3 | 390.7 | 368.9 | 346.1 | 325.4 | 305.3 | 287.3 |
| 145°   | 420.6 | 419.5 | 415.2 | 403.7 | 390.1 | 374.4 | 357.0 | 339.0 | 321.6 | 304.2 | 287.8 |
| 147.5° | 397.8 | 397.2 | 392.9 | 384.7 | 373.8 | 362.4 | 347.7 | 333.0 | 317.8 | 302.5 | 287.8 |
| 150°   | 378.2 | 378.2 | 374.9 | 368.9 | 360.8 | 350.4 | 339.0 | 326.5 | 314.0 | 300.4 | 287.8 |
| 152.5° | 361.9 | 361.9 | 360.2 | 354.8 | 348.8 | 340.6 | 330.8 | 320.5 | 309.6 | 297.6 | 286.2 |
| 155°   | 348.8 | 348.2 | 347.2 | 342.8 | 337.9 | 331.4 | 323.2 | 314.5 | 305.3 | 294.4 | 285.1 |
| 157.5° | 336.3 | 336.3 | 335.2 | 331.9 | 327.6 | 322.1 | 315.6 | 308.0 | 300.4 | 291.7 | 283.5 |
| 160°   | 324.3 | 324.8 | 324.8 | 321.6 | 317.8 | 314.0 | 308.5 | 302.5 | 295.5 | 288.4 | 282.4 |
| 162.5° | 313.4 | 314.0 | 314.0 | 311.2 | 309.1 | 305.8 | 300.9 | 296.0 | 290.6 | 285.1 | 280.2 |
| 165°   | 304.2 | 304.2 | 304.7 | 302.5 | 300.4 | 297.6 | 293.8 | 290.6 | 286.2 | 281.9 | 278.1 |
| 167.5° | 294.9 | 294.9 | 295.5 | 293.8 | 292.7 | 290.6 | 288.4 | 285.7 | 281.9 | 278.6 | 275.9 |
| 170°   | 286.8 | 286.8 | 287.3 | 286.2 | 285.7 | 284.6 | 282.4 | 280.8 | 278.1 | 275.3 | 273.7 |
| 172.5° | 279.1 | 279.7 | 280.8 | 279.7 | 279.7 | 279.1 | 277.5 | 276.4 | 274.2 | 272.6 | 272.1 |
| 175°   | 273.7 | 274.2 | 274.8 | 274.2 | 274.2 | 274.2 | 273.2 | 272.6 | 271.5 | 270.4 | 270.4 |
| 177.5° | 269.9 | 269.9 | 271.0 | 270.4 | 271.0 | 271.0 | 270.4 | 269.9 | 269.3 | 268.8 | 269.3 |
| 180°   | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 2251.4 | 2245.5 | 2224.0 | 2202.5 | 2178.1 | 2153.7 | 2135.6 | 2117.6 | 2090.7 | 2063.8 | 2041.9 |
| 5°     | 2439.9 | 2412.5 | 2367.1 | 2321.7 | 2260.2 | 2198.6 | 2157.1 | 2115.6 | 2059.9 | 2004.3 | 1959.8 |
| 7.5°   | 2589.3 | 2542.4 | 2478.9 | 2415.5 | 2334.9 | 2254.3 | 2178.1 | 2101.9 | 2017.0 | 1932.0 | 1862.6 |
| 10°    | 2684.6 | 2652.8 | 2579.6 | 2506.3 | 2398.4 | 2290.4 | 2184.0 | 2077.5 | 1968.1 | 1858.7 | 1766.9 |
| 12.5°  | 2693.8 | 2696.8 | 2629.4 | 2562.0 | 2439.9 | 2317.8 | 2188.4 | 2059.0 | 1921.2 | 1783.5 | 1676.6 |
| 15°    | 2612.3 | 2662.6 | 2625.5 | 2588.3 | 2465.3 | 2342.2 | 2183.0 | 2023.8 | 1865.1 | 1706.4 | 1582.8 |
| 17.5°  | 2460.9 | 2568.8 | 2574.2 | 2579.6 | 2456.5 | 2333.4 | 2157.1 | 1980.8 | 1801.1 | 1621.4 | 1491.5 |
| 20°    | 2254.3 | 2413.5 | 2468.2 | 2522.9 | 2422.8 | 2322.7 | 2133.2 | 1943.7 | 1742.5 | 1541.3 | 1405.0 |
| 22.5°  | 2043.3 | 2236.7 | 2336.8 | 2437.0 | 2362.7 | 2288.5 | 2086.8 | 1885.1 | 1672.7 | 1460.2 | 1322.0 |
| 25°    | 1803.1 | 2014.0 | 2167.9 | 2321.7 | 2276.3 | 2230.9 | 2032.1 | 1833.3 | 1607.2 | 1381.1 | 1240.0 |
| 27.5°  | 1593.5 | 1807.9 | 1993.5 | 2179.1 | 2169.3 | 2159.6 | 1962.3 | 1765.0 | 1533.5 | 1302.0 | 1165.7 |
| 30°    | 1407.0 | 1606.7 | 1814.3 | 2021.8 | 2045.8 | 2069.7 | 1879.2 | 1688.8 | 1456.8 | 1224.8 | 1093.5 |
| 32.5°  | 1241.9 | 1416.3 | 1639.0 | 1861.7 | 1908.5 | 1955.4 | 1783.5 | 1611.6 | 1382.1 | 1152.5 | 1026.1 |
| 35°    | 1106.6 | 1264.9 | 1487.6 | 1710.3 | 1768.9 | 1827.5 | 1678.0 | 1528.6 | 1304.9 | 1081.2 | 960.6  |
| 37.5°  | 987.0  | 1119.3 | 1336.7 | 1554.0 | 1625.8 | 1697.6 | 1563.8 | 1429.9 | 1220.4 | 1010.9 | 900.1  |
| 40°    | 887.9  | 994.3  | 1194.1 | 1393.8 | 1476.8 | 1559.8 | 1449.5 | 1339.1 | 1140.3 | 941.6  | 839.5  |
| 42.5°  | 804.8  | 899.6  | 1080.8 | 1261.9 | 1341.5 | 1421.1 | 1327.9 | 1234.6 | 1057.8 | 881.0  | 787.7  |
| 45°    | 734.0  | 809.7  | 974.3  | 1138.9 | 1214.6 | 1290.3 | 1210.2 | 1130.1 | 974.3  | 818.5  | 731.6  |
| 47.5°  | 667.6  | 732.6  | 873.2  | 1013.8 | 1081.2 | 1148.6 | 1086.1 | 1023.6 | 891.8  | 759.9  | 681.3  |
| 50°    | 608.0  | 660.3  | 783.3  | 906.4  | 965.0  | 1023.6 | 968.4  | 913.2  | 804.8  | 696.4  | 628.0  |
| 52.5°  | 556.2  | 598.7  | 701.8  | 804.8  | 855.1  | 905.4  | 858.1  | 810.7  | 724.7  | 638.8  | 579.2  |
| 55°    | 505.0  | 541.1  | 630.5  | 719.9  | 754.0  | 788.2  | 751.6  | 715.0  | 645.6  | 576.3  | 526.0  |
| 57.5°  | 457.1  | 489.3  | 562.6  | 635.9  | 662.2  | 688.6  | 655.4  | 622.2  | 569.9  | 517.7  | 475.7  |
| 60°    | 410.2  | 436.6  | 497.6  | 558.7  | 574.8  | 590.9  | 564.1  | 537.2  | 500.6  | 463.9  | 426.3  |
| 62.5°  | 366.8  | 390.7  | 436.1  | 481.5  | 492.3  | 503.0  | 482.5  | 462.0  | 434.2  | 406.3  | 377.0  |
| 65°    | 321.8  | 339.9  | 377.0  | 414.1  | 421.0  | 427.8  | 409.7  | 391.7  | 370.7  | 349.7  | 328.2  |
| 67.5°  | 280.3  | 293.0  | 323.3  | 353.6  | 354.1  | 354.6  | 339.9  | 325.3  | 313.5  | 301.8  | 284.7  |
| 70°    | 239.8  | 252.0  | 272.0  | 292.0  | 292.5  | 293.0  | 281.3  | 269.6  | 260.8  | 252.0  | 239.3  |
| 72.5°  | 198.3  | 207.1  | 222.2  | 237.3  | 236.4  | 235.4  | 228.1  | 220.7  | 213.9  | 207.1  | 197.8  |
| 75°    | 160.7  | 168.0  | 178.3  | 188.5  | 185.6  | 182.6  | 178.7  | 174.8  | 169.0  | 163.1  | 157.3  |
| 77.5°  | 126.5  | 130.9  | 136.7  | 142.6  | 140.6  | 138.7  | 135.3  | 131.9  | 127.5  | 123.1  | 120.6  |
| 80°    | 92.8   | 94.7   | 98.7   | 102.6  | 101.6  | 100.6  | 96.7   | 92.8   | 91.8   | 90.8   | 87.4   |
| 82.5°  | 63.0   | 65.4   | 66.4   | 67.4   | 66.9   | 66.4   | 63.5   | 60.6   | 59.6   | 58.6   | 58.1   |
| 85°    | 37.6   | 38.1   | 38.6   | 39.1   | 37.6   | 36.1   | 35.2   | 34.2   | 34.2   | 34.2   | 33.7   |
| 87.5°  | 17.1   | 17.6   | 17.6   | 17.6   | 17.1   | 16.6   | 15.6   | 14.7   | 15.1   | 15.6   | 15.6   |
| 90°    | 10.3   | 8.7    | 7.1    | 6.0    | 4.9    | 3.3    | 2.2    | 1.1    | 2.2    | 3.3    | 4.9    |
| 92.5°  | 83.8   | 55.0   | 37.5   | 27.8   | 22.3   | 17.4   | 12.0   | 8.2    | 12.0   | 17.4   | 22.3   |
| 95°    | 198.1  | 117.0  | 70.7   | 49.5   | 35.4   | 26.1   | 20.1   | 18.5   | 20.1   | 26.1   | 35.4   |
| 97.5°  | 220.4  | 126.2  | 80.5   | 57.1   | 43.0   | 34.8   | 29.9   | 29.4   | 29.9   | 34.8   | 43.0   |
| 100°   | 205.1  | 124.6  | 86.5   | 65.3   | 52.2   | 44.6   | 40.8   | 40.3   | 40.8   | 44.6   | 52.2   |
| 102.5° | 192.1  | 126.8  | 93.6   | 74.5   | 63.1   | 56.0   | 52.8   | 51.7   | 52.8   | 56.0   | 63.1   |
| 105°   | 187.2  | 131.1  | 101.8  | 84.9   | 74.5   | 68.0   | 64.8   | 63.1   | 64.8   | 68.0   | 74.5   |
| 107.5° | 186.1  | 138.2  | 112.1  | 96.3   | 86.5   | 80.0   | 76.7   | 75.1   | 76.7   | 80.0   | 86.5   |
| 110°   | 188.8  | 147.5  | 123.0  | 107.7  | 98.5   | 92.5   | 89.8   | 88.2   | 89.8   | 92.5   | 98.5   |





TEST NUMBER: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 194.3 | 156.7 | 134.4 | 119.7 | 110.5 | 104.5 | 101.8 | 100.1 | 101.8 | 104.5 | 110.5 |
| 115°   | 200.2 | 167.1 | 146.4 | 131.7 | 122.4 | 117.0 | 113.7 | 111.5 | 113.7 | 117.0 | 122.4 |
| 117.5° | 207.9 | 177.9 | 157.3 | 143.7 | 133.3 | 128.4 | 125.7 | 123.0 | 125.7 | 128.4 | 133.3 |
| 120°   | 216.6 | 188.3 | 168.7 | 155.1 | 144.7 | 139.3 | 136.6 | 134.9 | 136.6 | 139.3 | 144.7 |
| 122.5° | 224.7 | 199.2 | 180.1 | 165.4 | 155.6 | 149.6 | 146.9 | 145.3 | 146.9 | 149.6 | 155.6 |
| 125°   | 233.4 | 209.5 | 190.4 | 175.8 | 165.4 | 159.4 | 156.2 | 155.1 | 156.2 | 159.4 | 165.4 |
| 127.5° | 240.5 | 218.7 | 200.2 | 185.6 | 174.1 | 168.1 | 164.3 | 162.7 | 164.3 | 168.1 | 174.1 |
| 130°   | 247.6 | 226.9 | 208.9 | 194.3 | 182.8 | 176.3 | 171.4 | 169.8 | 171.4 | 176.3 | 182.8 |
| 132.5° | 254.1 | 234.0 | 216.6 | 202.4 | 191.0 | 182.8 | 177.4 | 175.2 | 177.4 | 182.8 | 191.0 |
| 135°   | 259.6 | 241.1 | 224.2 | 209.5 | 198.1 | 189.9 | 183.9 | 181.7 | 183.9 | 189.9 | 198.1 |
| 137.5° | 263.9 | 245.9 | 229.6 | 216.0 | 204.6 | 195.9 | 189.9 | 187.7 | 189.9 | 195.9 | 204.6 |
| 140°   | 267.2 | 250.8 | 235.1 | 221.5 | 210.6 | 201.9 | 196.4 | 193.7 | 196.4 | 201.9 | 210.6 |
| 142.5° | 270.4 | 254.7 | 239.4 | 226.9 | 216.0 | 208.4 | 202.4 | 200.2 | 202.4 | 208.4 | 216.0 |
| 145°   | 272.6 | 257.9 | 243.8 | 231.3 | 222.0 | 213.8 | 208.9 | 207.3 | 208.9 | 213.8 | 222.0 |
| 147.5° | 274.2 | 260.6 | 247.6 | 236.7 | 227.4 | 220.4 | 215.5 | 214.4 | 215.5 | 220.4 | 227.4 |
| 150°   | 274.8 | 263.4 | 250.8 | 241.1 | 233.4 | 226.4 | 222.0 | 221.5 | 222.0 | 226.4 | 233.4 |
| 152.5° | 275.9 | 265.0 | 254.7 | 245.4 | 238.9 | 232.9 | 228.5 | 228.5 | 228.5 | 232.9 | 238.9 |
| 155°   | 275.9 | 267.2 | 257.9 | 250.3 | 244.3 | 238.9 | 235.6 | 235.6 | 235.6 | 238.9 | 244.3 |
| 157.5° | 276.4 | 268.3 | 260.6 | 254.7 | 249.2 | 244.3 | 241.6 | 241.1 | 241.6 | 244.3 | 249.2 |
| 160°   | 276.4 | 269.9 | 263.4 | 257.9 | 254.1 | 249.8 | 247.6 | 247.6 | 247.6 | 249.8 | 254.1 |
| 162.5° | 275.9 | 270.4 | 265.0 | 260.6 | 257.4 | 254.1 | 252.5 | 252.5 | 252.5 | 254.1 | 257.4 |
| 165°   | 274.8 | 271.0 | 266.6 | 262.8 | 260.6 | 257.9 | 256.8 | 257.4 | 256.8 | 257.9 | 260.6 |
| 167.5° | 274.2 | 271.0 | 267.7 | 265.0 | 263.4 | 261.2 | 260.6 | 261.2 | 260.6 | 261.2 | 263.4 |
| 170°   | 272.6 | 270.4 | 267.7 | 266.6 | 265.5 | 263.9 | 263.4 | 264.5 | 263.4 | 263.9 | 265.5 |
| 172.5° | 272.1 | 270.4 | 268.3 | 267.7 | 267.2 | 266.1 | 266.1 | 266.6 | 266.1 | 266.1 | 267.2 |
| 175°   | 271.0 | 269.9 | 268.8 | 268.3 | 268.3 | 267.2 | 267.7 | 268.3 | 267.7 | 267.2 | 268.3 |
| 177.5° | 270.4 | 269.3 | 268.8 | 268.8 | 268.8 | 268.3 | 268.8 | 269.3 | 268.8 | 268.3 | 268.8 |
| 180°   | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 |



TEST NUMBER: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 2019.9 | 2000.8 | 1981.8 | 1967.1 | 1952.5 | 1927.6 | 1902.7 | 1896.8 | 1891.0 | 1882.7 | 1874.4 |
| 5°     | 1915.4 | 1868.5 | 1821.6 | 1779.6 | 1737.6 | 1704.9 | 1672.2 | 1650.7 | 1629.2 | 1613.6 | 1597.9 |
| 7.5°   | 1793.3 | 1723.0 | 1652.6 | 1602.8 | 1553.0 | 1505.6 | 1458.3 | 1443.1 | 1428.0 | 1407.5 | 1387.0 |
| 10°    | 1675.1 | 1597.4 | 1519.8 | 1454.8 | 1389.9 | 1343.5 | 1297.1 | 1278.5 | 1260.0 | 1234.1 | 1208.2 |
| 12.5°  | 1569.6 | 1484.6 | 1399.7 | 1334.2 | 1268.8 | 1223.8 | 1178.9 | 1152.1 | 1125.2 | 1110.5 | 1095.9 |
| 15°    | 1459.2 | 1368.4 | 1277.6 | 1217.0 | 1156.5 | 1115.9 | 1075.4 | 1051.9 | 1028.5 | 1014.3 | 1000.2 |
| 17.5°  | 1361.6 | 1271.7 | 1181.8 | 1123.7 | 1065.6 | 1028.5 | 991.4  | 970.9  | 950.4  | 939.6  | 928.9  |
| 20°    | 1268.8 | 1180.9 | 1093.0 | 1036.3 | 979.7  | 949.4  | 919.1  | 905.9  | 892.7  | 883.9  | 875.2  |
| 22.5°  | 1183.8 | 1097.4 | 1010.9 | 962.6  | 914.2  | 889.8  | 865.4  | 856.1  | 846.8  | 839.5  | 832.2  |
| 25°    | 1098.8 | 1021.7 | 944.5  | 903.5  | 862.5  | 842.4  | 822.4  | 813.1  | 803.9  | 796.5  | 789.2  |
| 27.5°  | 1029.5 | 955.7  | 882.0  | 846.8  | 811.7  | 796.0  | 780.4  | 773.1  | 765.8  | 758.9  | 752.1  |
| 30°    | 962.1  | 896.2  | 830.2  | 799.9  | 769.7  | 755.5  | 741.3  | 734.0  | 726.7  | 720.3  | 714.0  |
| 32.5°  | 899.6  | 842.9  | 786.3  | 758.4  | 730.6  | 718.9  | 707.2  | 698.4  | 689.6  | 684.7  | 679.8  |
| 35°    | 840.0  | 789.2  | 738.4  | 715.5  | 692.5  | 680.8  | 669.1  | 661.7  | 654.4  | 650.5  | 646.6  |
| 37.5°  | 789.2  | 743.8  | 698.4  | 676.4  | 654.4  | 643.2  | 631.9  | 625.6  | 619.2  | 617.8  | 616.3  |
| 40°    | 737.4  | 698.4  | 659.3  | 637.8  | 616.3  | 606.6  | 596.8  | 592.9  | 589.0  | 588.0  | 587.0  |
| 42.5°  | 694.5  | 656.4  | 618.3  | 598.7  | 579.2  | 570.9  | 562.6  | 560.6  | 558.7  | 560.2  | 561.6  |
| 45°    | 644.6  | 612.9  | 581.2  | 563.1  | 545.0  | 538.2  | 531.3  | 529.9  | 528.4  | 531.3  | 534.3  |
| 47.5°  | 602.6  | 573.3  | 544.0  | 526.9  | 509.9  | 505.0  | 500.1  | 499.6  | 499.1  | 503.0  | 506.9  |
| 50°    | 559.7  | 531.3  | 503.0  | 489.3  | 475.7  | 471.3  | 466.9  | 468.3  | 469.8  | 476.2  | 482.5  |
| 52.5°  | 519.6  | 493.3  | 466.9  | 454.2  | 441.5  | 438.6  | 435.6  | 439.0  | 442.5  | 449.3  | 456.1  |
| 55°    | 475.7  | 451.7  | 427.8  | 418.0  | 408.3  | 405.3  | 402.4  | 409.3  | 416.1  | 422.4  | 428.8  |
| 57.5°  | 433.7  | 412.7  | 391.7  | 382.9  | 374.1  | 373.6  | 373.1  | 379.5  | 385.8  | 392.6  | 399.5  |
| 60°    | 388.7  | 371.2  | 353.6  | 346.7  | 339.9  | 340.9  | 341.9  | 349.2  | 356.5  | 361.9  | 367.3  |
| 62.5°  | 347.7  | 333.1  | 318.4  | 312.1  | 305.7  | 308.2  | 310.6  | 317.9  | 325.3  | 331.6  | 337.9  |
| 65°    | 306.7  | 294.5  | 282.3  | 277.9  | 273.5  | 276.9  | 280.3  | 286.7  | 293.0  | 297.4  | 301.8  |
| 67.5°  | 267.6  | 257.4  | 247.1  | 243.7  | 240.3  | 243.7  | 247.1  | 253.5  | 259.8  | 264.2  | 268.6  |
| 70°    | 226.6  | 218.3  | 210.0  | 207.6  | 205.1  | 209.0  | 212.9  | 218.3  | 223.7  | 228.1  | 232.5  |
| 72.5°  | 188.5  | 182.2  | 175.8  | 175.3  | 174.8  | 178.3  | 181.7  | 187.0  | 192.4  | 195.3  | 198.3  |
| 75°    | 151.4  | 148.0  | 144.6  | 144.1  | 143.6  | 147.0  | 150.4  | 153.3  | 156.3  | 158.7  | 161.2  |
| 77.5°  | 118.2  | 115.3  | 112.3  | 112.8  | 113.3  | 115.7  | 118.2  | 121.1  | 124.0  | 125.5  | 127.0  |
| 80°    | 84.0   | 83.0   | 82.0   | 83.0   | 84.0   | 86.0   | 87.9   | 89.9   | 91.8   | 92.8   | 93.8   |
| 82.5°  | 57.6   | 56.7   | 55.7   | 57.1   | 58.6   | 60.1   | 61.5   | 63.0   | 64.5   | 65.0   | 65.4   |
| 85°    | 33.2   | 34.7   | 36.1   | 36.1   | 36.1   | 36.6   | 37.1   | 37.6   | 38.1   | 37.6   | 37.1   |
| 87.5°  | 15.6   | 16.1   | 16.6   | 16.6   | 16.6   | 17.1   | 17.6   | 17.6   | 17.6   | 17.1   | 16.6   |
| 90°    | 6.0    | 7.1    | 8.7    | 10.3   | 12.0   | 13.6   | 13.1   | 13.6   | 14.1   | 14.7   | 15.8   |
| 92.5°  | 27.8   | 37.5   | 55.0   | 83.8   | 112.1  | 101.2  | 75.6   | 53.9   | 41.9   | 36.5   | 32.6   |
| 95°    | 49.5   | 70.7   | 117.0  | 198.1  | 287.3  | 322.7  | 261.7  | 195.9  | 132.8  | 103.9  | 84.3   |
| 97.5°  | 57.1   | 80.5   | 126.2  | 220.4  | 370.6  | 496.3  | 513.1  | 450.0  | 339.5  | 267.7  | 205.7  |
| 100°   | 65.3   | 86.5   | 124.6  | 205.1  | 348.2  | 515.3  | 622.5  | 641.5  | 597.5  | 533.8  | 456.5  |
| 102.5° | 74.5   | 93.6   | 126.8  | 192.1  | 315.6  | 479.9  | 627.9  | 705.2  | 714.5  | 684.0  | 642.1  |
| 105°   | 84.9   | 101.8  | 131.1  | 187.2  | 290.0  | 437.5  | 593.7  | 707.4  | 761.8  | 772.1  | 758.0  |
| 107.5° | 96.3   | 112.1  | 138.2  | 186.1  | 271.5  | 399.9  | 544.7  | 674.7  | 760.2  | 802.6  | 817.3  |
| 110°   | 107.7  | 123.0  | 147.5  | 188.8  | 261.7  | 368.9  | 499.0  | 623.6  | 723.7  | 792.3  | 830.4  |



TEST NUMBER: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 119.7 | 134.4 | 156.7 | 194.3 | 256.3 | 348.2 | 459.3 | 573.0 | 675.8 | 754.7 | 806.4 |
| 115°   | 131.7 | 146.4 | 167.1 | 200.2 | 255.7 | 334.6 | 428.8 | 529.4 | 624.1 | 704.1 | 763.4 |
| 117.5° | 143.7 | 157.3 | 177.9 | 207.9 | 256.3 | 325.4 | 408.6 | 495.7 | 579.5 | 653.0 | 714.5 |
| 120°   | 155.1 | 168.7 | 188.3 | 216.6 | 258.5 | 319.4 | 393.4 | 470.1 | 543.6 | 608.9 | 663.8 |
| 122.5° | 165.4 | 180.1 | 199.2 | 224.7 | 262.3 | 315.6 | 380.9 | 450.0 | 514.8 | 574.1 | 624.1 |
| 125°   | 175.8 | 190.4 | 209.5 | 233.4 | 266.1 | 312.3 | 370.6 | 432.6 | 491.9 | 544.1 | 587.7 |
| 127.5° | 185.6 | 200.2 | 218.7 | 240.5 | 270.4 | 310.7 | 360.8 | 416.8 | 470.7 | 518.6 | 558.8 |
| 130°   | 194.3 | 208.9 | 226.9 | 247.6 | 274.8 | 309.1 | 353.1 | 402.1 | 451.1 | 495.2 | 532.2 |
| 132.5° | 202.4 | 216.6 | 234.0 | 254.1 | 278.1 | 308.5 | 346.1 | 388.5 | 432.6 | 472.9 | 507.7 |
| 135°   | 209.5 | 224.2 | 241.1 | 259.6 | 281.3 | 308.0 | 340.1 | 376.5 | 415.2 | 450.5 | 481.6 |
| 137.5° | 216.0 | 229.6 | 245.9 | 263.9 | 283.5 | 306.9 | 334.6 | 365.1 | 397.8 | 429.3 | 457.1 |
| 140°   | 221.5 | 235.1 | 250.8 | 267.2 | 285.7 | 306.3 | 329.7 | 355.3 | 383.1 | 409.2 | 432.6 |
| 142.5° | 226.9 | 239.4 | 254.7 | 270.4 | 287.3 | 305.3 | 325.4 | 346.1 | 368.9 | 390.7 | 410.3 |
| 145°   | 231.3 | 243.8 | 257.9 | 272.6 | 287.8 | 304.2 | 321.6 | 339.0 | 357.0 | 374.4 | 390.1 |
| 147.5° | 236.7 | 247.6 | 260.6 | 274.2 | 287.8 | 302.5 | 317.8 | 333.0 | 347.7 | 362.4 | 373.8 |
| 150°   | 241.1 | 250.8 | 263.4 | 274.8 | 287.8 | 300.4 | 314.0 | 326.5 | 339.0 | 350.4 | 360.8 |
| 152.5° | 245.4 | 254.7 | 265.0 | 275.9 | 286.2 | 297.6 | 309.6 | 320.5 | 330.8 | 340.6 | 348.8 |
| 155°   | 250.3 | 257.9 | 267.2 | 275.9 | 285.1 | 294.4 | 305.3 | 314.5 | 323.2 | 331.4 | 337.9 |
| 157.5° | 254.7 | 260.6 | 268.3 | 276.4 | 283.5 | 291.7 | 300.4 | 308.0 | 315.6 | 322.1 | 327.6 |
| 160°   | 257.9 | 263.4 | 269.9 | 276.4 | 282.4 | 288.4 | 295.5 | 302.5 | 308.5 | 314.0 | 317.8 |
| 162.5° | 260.6 | 265.0 | 270.4 | 275.9 | 280.2 | 285.1 | 290.6 | 296.0 | 300.9 | 305.8 | 309.1 |
| 165°   | 262.8 | 266.6 | 271.0 | 274.8 | 278.1 | 281.9 | 286.2 | 290.6 | 293.8 | 297.6 | 300.4 |
| 167.5° | 265.0 | 267.7 | 271.0 | 274.2 | 275.9 | 278.6 | 281.9 | 285.7 | 288.4 | 290.6 | 292.7 |
| 170°   | 266.6 | 267.7 | 270.4 | 272.6 | 273.7 | 275.3 | 278.1 | 280.8 | 282.4 | 284.6 | 285.7 |
| 172.5° | 267.7 | 268.3 | 270.4 | 272.1 | 272.1 | 272.6 | 274.2 | 276.4 | 277.5 | 279.1 | 279.7 |
| 175°   | 268.3 | 268.8 | 269.9 | 271.0 | 270.4 | 270.4 | 271.5 | 272.6 | 273.2 | 274.2 | 274.2 |
| 177.5° | 268.8 | 268.8 | 269.3 | 270.4 | 269.3 | 268.8 | 269.3 | 269.9 | 270.4 | 271.0 | 271.0 |
| 180°   | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 |



TEST NUMBER: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 1870.9 | 1867.5 | 1853.8 | 1840.2 |
| 5°     | 1586.2 | 1574.5 | 1570.6 | 1566.7 |
| 7.5°   | 1386.0 | 1385.0 | 1364.5 | 1344.0 |
| 10°    | 1209.7 | 1211.1 | 1192.6 | 1174.0 |
| 12.5°  | 1083.7 | 1071.5 | 1070.0 | 1068.5 |
| 15°    | 988.9  | 977.7  | 975.8  | 973.8  |
| 17.5°  | 922.0  | 915.2  | 913.2  | 911.3  |
| 20°    | 871.2  | 867.3  | 863.9  | 860.5  |
| 22.5°  | 827.3  | 822.4  | 819.5  | 816.5  |
| 25°    | 784.8  | 780.4  | 779.4  | 778.5  |
| 27.5°  | 746.7  | 741.3  | 741.3  | 741.3  |
| 30°    | 710.6  | 707.2  | 705.7  | 704.2  |
| 32.5°  | 676.9  | 673.9  | 673.9  | 673.9  |
| 35°    | 645.1  | 643.7  | 641.7  | 639.8  |
| 37.5°  | 616.3  | 616.3  | 615.3  | 614.4  |
| 40°    | 588.5  | 589.9  | 589.9  | 589.9  |
| 42.5°  | 563.1  | 564.6  | 564.6  | 564.6  |
| 45°    | 536.7  | 539.2  | 540.1  | 541.1  |
| 47.5°  | 510.8  | 514.7  | 515.7  | 516.7  |
| 50°    | 485.4  | 488.4  | 488.9  | 489.3  |
| 52.5°  | 459.6  | 463.0  | 465.4  | 467.9  |
| 55°    | 432.2  | 435.6  | 437.1  | 438.6  |
| 57.5°  | 402.9  | 406.3  | 406.8  | 407.3  |
| 60°    | 370.7  | 374.1  | 375.1  | 376.0  |
| 62.5°  | 339.9  | 341.9  | 342.8  | 343.8  |
| 65°    | 304.7  | 307.7  | 309.6  | 311.6  |
| 67.5°  | 271.0  | 273.5  | 273.5  | 273.5  |
| 70°    | 233.4  | 234.4  | 235.9  | 237.3  |
| 72.5°  | 198.8  | 199.3  | 199.3  | 199.3  |
| 75°    | 162.1  | 163.1  | 163.6  | 164.1  |
| 77.5°  | 127.5  | 128.0  | 128.0  | 128.0  |
| 80°    | 93.3   | 92.8   | 92.8   | 92.8   |
| 82.5°  | 64.0   | 62.5   | 62.5   | 62.5   |
| 85°    | 36.6   | 36.1   | 36.6   | 37.1   |
| 87.5°  | 16.6   | 16.6   | 16.6   | 16.6   |
| 90°    | 15.2   | 15.8   | 16.3   | 15.8   |
| 92.5°  | 31.6   | 29.4   | 29.9   | 28.8   |
| 95°    | 74.0   | 69.1   | 65.3   | 63.1   |
| 97.5°  | 169.2  | 148.5  | 135.5  | 129.5  |
| 100°   | 401.6  | 361.9  | 340.6  | 341.2  |
| 102.5° | 602.4  | 573.0  | 556.1  | 540.3  |
| 105°   | 733.0  | 712.3  | 694.9  | 692.1  |
| 107.5° | 814.0  | 804.2  | 797.2  | 791.2  |
| 110°   | 845.6  | 849.9  | 848.9  | 847.8  |



TEST NUMBER: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 837.4 | 853.2 | 858.6 | 859.2 |
| 115°   | 804.2 | 828.2 | 839.1 | 841.8 |
| 117.5° | 756.9 | 783.6 | 799.9 | 803.7 |
| 120°   | 706.8 | 737.3 | 750.4 | 753.6 |
| 122.5° | 661.1 | 687.8 | 702.5 | 706.8 |
| 125°   | 622.5 | 646.4 | 660.0 | 663.8 |
| 127.5° | 590.4 | 611.1 | 623.6 | 626.8 |
| 130°   | 561.0 | 580.6 | 592.0 | 596.4 |
| 132.5° | 534.3 | 553.9 | 563.7 | 566.4 |
| 135°   | 508.2 | 524.5 | 534.3 | 538.2 |
| 137.5° | 479.9 | 496.8 | 505.0 | 508.2 |
| 140°   | 453.3 | 468.5 | 477.2 | 476.7 |
| 142.5° | 427.1 | 440.2 | 447.8 | 447.3 |
| 145°   | 403.7 | 415.2 | 419.5 | 420.6 |
| 147.5° | 384.7 | 392.9 | 397.2 | 397.8 |
| 150°   | 368.9 | 374.9 | 378.2 | 378.2 |
| 152.5° | 354.8 | 360.2 | 361.9 | 361.9 |
| 155°   | 342.8 | 347.2 | 348.2 | 348.8 |
| 157.5° | 331.9 | 335.2 | 336.3 | 336.3 |
| 160°   | 321.6 | 324.8 | 324.8 | 324.3 |
| 162.5° | 311.2 | 314.0 | 314.0 | 313.4 |
| 165°   | 302.5 | 304.7 | 304.2 | 304.2 |
| 167.5° | 293.8 | 295.5 | 294.9 | 294.9 |
| 170°   | 286.2 | 287.3 | 286.8 | 286.8 |
| 172.5° | 279.7 | 280.8 | 279.7 | 279.1 |
| 175°   | 274.2 | 274.8 | 274.2 | 273.7 |
| 177.5° | 270.4 | 271.0 | 269.9 | 269.9 |
| 180°   | 268.8 | 268.8 | 268.8 | 268.8 |



TEST NUMBER: P831692

CATALOG NUMBER: S123DIP-S775D585U950-4F0-1E-UDD-G4

**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 | 15.51            | 16.45 | 16.36 | 17.32 | 18.40 | 17.75          | 18.69 | 18.60 | 19.55 | 20.64 |
|                 | 3H   | 17.17            | 18.01 | 18.03 | 18.88 | 19.99 | 19.18          | 20.02 | 20.04 | 20.90 | 22.00 |
|                 | 4H   | 17.75            | 18.54 | 18.62 | 19.42 | 20.54 | 19.63          | 20.43 | 20.51 | 21.31 | 22.43 |
|                 | 6H   | 18.12            | 18.85 | 19.01 | 19.74 | 20.87 | 19.91          | 20.64 | 20.80 | 21.53 | 22.66 |
|                 | 8H   | 18.22            | 18.92 | 19.12 | 19.82 | 20.95 | 19.98          | 20.67 | 20.88 | 21.58 | 22.71 |
|                 | 12H  | 18.27            | 18.93 | 19.17 | 19.83 | 20.99 | 20.00          | 20.66 | 20.90 | 21.56 | 22.72 |
| 4H              | 2H   | 16.10            | 16.89 | 16.98 | 17.77 | 18.89 | 17.92          | 18.72 | 18.81 | 19.60 | 20.72 |
|                 | 3H   | 17.93            | 18.59 | 18.83 | 19.51 | 20.64 | 19.55          | 20.21 | 20.44 | 21.12 | 22.26 |
|                 | 4H   | 18.63            | 19.23 | 19.54 | 20.14 | 21.31 | 20.13          | 20.74 | 21.04 | 21.65 | 22.81 |
|                 | 6H   | 19.11            | 19.63 | 20.03 | 20.56 | 21.73 | 20.54          | 21.06 | 21.46 | 21.99 | 23.16 |
|                 | 8H   | 19.25            | 19.74 | 20.17 | 20.66 | 21.84 | 20.66          | 21.14 | 21.58 | 22.07 | 23.24 |
|                 | 12H  | 19.32            | 19.76 | 20.26 | 20.70 | 21.88 | 20.71          | 21.14 | 21.65 | 22.09 | 23.27 |
| 8H              | 4H   | 18.91            | 19.39 | 19.83 | 20.32 | 21.49 | 20.25          | 20.73 | 21.17 | 21.66 | 22.83 |
|                 | 6H   | 19.50            | 19.90 | 20.45 | 20.87 | 22.04 | 20.75          | 21.15 | 21.70 | 22.12 | 23.29 |
|                 | 8H   | 19.71            | 20.06 | 20.66 | 21.02 | 22.21 | 20.93          | 21.28 | 21.89 | 22.24 | 23.44 |
|                 | 12H  | 19.83            | 20.14 | 20.79 | 21.10 | 22.34 | 21.04          | 21.35 | 22.00 | 22.30 | 23.54 |
| 12H             | 4H   | 18.91            | 19.35 | 19.85 | 20.29 | 21.47 | 20.22          | 20.66 | 21.16 | 21.61 | 22.79 |
|                 | 6H   | 19.55            | 19.90 | 20.51 | 20.86 | 22.05 | 20.77          | 21.12 | 21.72 | 22.08 | 23.27 |
|                 | 8H   | 19.79            | 20.10 | 20.75 | 21.05 | 22.29 | 20.97          | 21.28 | 21.93 | 22.23 | 23.47 |