

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: P831273

Luminaire Tested: S123DIP-S1165D585U927-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831273  
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-S1165D585U927-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

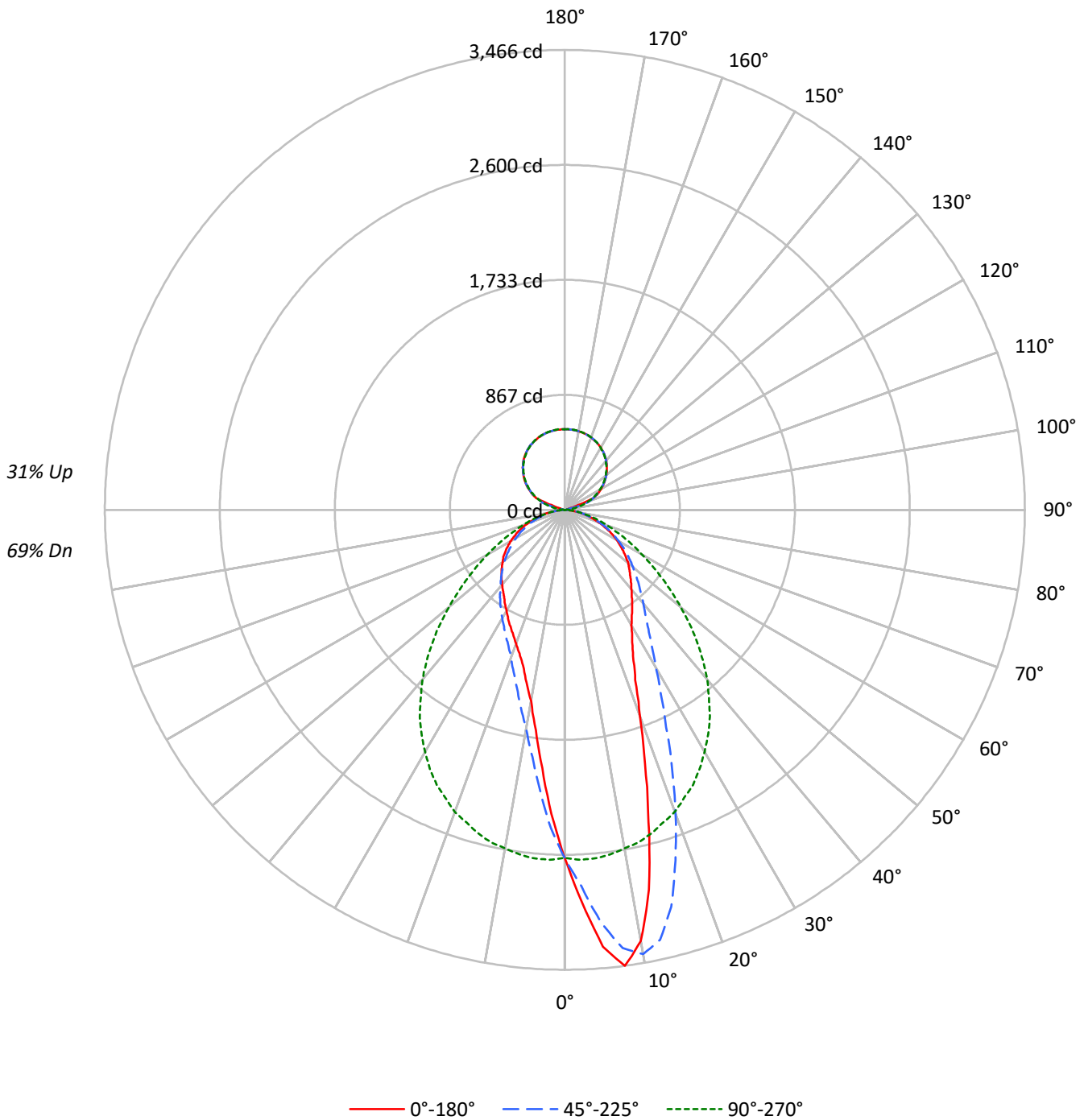
Lumens per Lamp: N/A  
Luminaire Lumens: 6073.1 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 57.4  
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: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

### Luminous Intensity Polar Plot





TEST NUMBER: P831273

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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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 | 69 |    |    |    |   |
| 1   | 103 | 99  | 95  | 92  | 97  | 93  | 90  | 87  | 84 | 81 | 79 | 75 | 73 | 71 | 67 | 65 | 64 | 60 |    |    |    |   |
| 2   | 94  | 87  | 81  | 76  | 89  | 83  | 77  | 73  | 74 | 70 | 67 | 67 | 63 | 61 | 60 | 57 | 55 | 51 |    |    |    |   |
| 3   | 87  | 77  | 70  | 65  | 82  | 74  | 67  | 62  | 66 | 61 | 57 | 60 | 56 | 52 | 54 | 50 | 48 | 45 |    |    |    |   |
| 4   | 80  | 69  | 61  | 56  | 75  | 66  | 59  | 54  | 60 | 54 | 50 | 54 | 49 | 46 | 49 | 45 | 42 | 39 |    |    |    |   |
| 5   | 74  | 62  | 54  | 49  | 70  | 60  | 52  | 47  | 54 | 48 | 44 | 49 | 44 | 40 | 44 | 40 | 37 | 35 |    |    |    |   |
| 6   | 68  | 57  | 49  | 43  | 65  | 54  | 47  | 41  | 49 | 43 | 39 | 45 | 40 | 36 | 41 | 37 | 34 | 31 |    |    |    |   |
| 7   | 64  | 52  | 44  | 38  | 60  | 49  | 42  | 37  | 45 | 39 | 35 | 41 | 36 | 33 | 38 | 33 | 30 | 28 |    |    |    |   |
| 8   | 59  | 47  | 40  | 34  | 56  | 45  | 38  | 33  | 42 | 36 | 31 | 38 | 33 | 30 | 35 | 31 | 28 | 26 |    |    |    |   |
| 9   | 56  | 44  | 36  | 31  | 53  | 42  | 35  | 30  | 39 | 33 | 29 | 35 | 31 | 27 | 32 | 28 | 25 | 23 |    |    |    |   |
| 10  | 52  | 40  | 33  | 29  | 50  | 39  | 32  | 28  | 36 | 30 | 26 | 33 | 28 | 25 | 30 | 26 | 23 | 22 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 28243 | 28243 | 28243 | 28243 | 28243 |
| 5°  | 35718 | 33713 | 28496 | 22964 | 21102 |
| 10° | 36066 | 37156 | 28306 | 18306 | 15996 |
| 15° | 27164 | 34497 | 28113 | 15502 | 13527 |
| 20° | 18927 | 27915 | 27755 | 13557 | 12287 |
| 25° | 14433 | 21467 | 27143 | 12473 | 11525 |
| 30° | 12485 | 17055 | 26166 | 11706 | 10912 |
| 35° | 11583 | 14399 | 25039 | 11152 | 10479 |
| 40° | 10967 | 12917 | 23456 | 10624 | 10333 |
| 45° | 10602 | 11954 | 21444 | 10213 | 10268 |
| 50° | 10419 | 11194 | 19063 | 9838  | 10215 |
| 55° | 10031 | 10637 | 16726 | 9483  | 10260 |
| 60° | 9672  | 10038 | 14417 | 9147  | 10092 |
| 65° | 9088  | 9475  | 12437 | 8792  | 9892  |
| 70° | 8393  | 8755  | 10578 | 8201  | 9312  |
| 75° | 7594  | 7848  | 9062  | 7619  | 8509  |
| 80° | 6267  | 6868  | 7172  | 6639  | 7172  |
| 85° | 4965  | 5570  | 5261  | 5644  | 5718  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 24484 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 248.1  | 4.1       |
| 10°-20°   | 617.1  | 10.2      |
| 20°-30°   | 730.7  | 12.0      |
| 30°-40°   | 734.7  | 12.1      |
| 40°-50°   | 674.1  | 11.1      |
| 50°-60°   | 556.4  | 9.2       |
| 60°-70°   | 393.6  | 6.5       |
| 70°-80°   | 210.1  | 3.5       |
| 80°-90°   | 54.5   | 0.9       |
| 90°-100°  | 21.4   | 0.4       |
| 100°-110° | 103.7  | 1.7       |
| 110°-120° | 254.1  | 4.2       |
| 120°-130° | 322.6  | 5.3       |
| 130°-140° | 344.6  | 5.7       |
| 140°-150° | 322.2  | 5.3       |
| 150°-160° | 259.9  | 4.3       |
| 160°-170° | 167.7  | 2.8       |
| 170°-180° | 57.8   | 1.0       |
| 0°-30°    | 1595.9 | 26.3      |
| 0°-40°    | 2330.6 | 38.4      |
| 0°-60°    | 3561.0 | 58.6      |
| 0°-90°    | 4219.2 | 69.5      |
| 90°-120°  | 379.2  | 6.2       |
| 90°-150°  | 1368.5 | 22.5      |
| 90°-180°  | 1854.0 | 30.5      |
| 0°-180°   | 6073.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2624 | 2624 | 2624 | 2624 | 2624 |      |
| 5°   | 3306 | 3120 | 2637 | 2125 | 1953 | 315  |
| 15°  | 2438 | 3096 | 2523 | 1391 | 1214 | 673  |
| 25°  | 1215 | 1808 | 2285 | 1050 | 970  | 573  |
| 35°  | 882  | 1096 | 1906 | 849  | 798  | 554  |
| 45°  | 696  | 785  | 1409 | 671  | 674  | 539  |
| 55°  | 534  | 567  | 891  | 505  | 547  | 478  |
| 65°  | 357  | 372  | 488  | 345  | 388  | 355  |
| 75°  | 183  | 189  | 218  | 183  | 205  | 192  |
| 85°  | 40   | 45   | 43   | 46   | 46   | 45   |
| 90°  | 14   | 11   | 0    | 11   | 14   | 9    |
| 95°  | 17   | 14   | 28   | 14   | 17   | 14   |
| 105° | 20   | 99   | 135  | 99   | 20   | 41   |
| 115° | 266  | 259  | 253  | 259  | 266  | 250  |
| 125° | 363  | 362  | 356  | 362  | 363  | 325  |
| 135° | 448  | 448  | 443  | 448  | 448  | 345  |
| 145° | 516  | 516  | 512  | 516  | 516  | 322  |
| 155° | 562  | 563  | 563  | 563  | 562  | 259  |
| 165° | 593  | 592  | 594  | 592  | 593  | 167  |
| 175° | 606  | 606  | 608  | 606  | 606  | 58   |
| 180° | 608  | 608  | 608  | 608  | 608  |      |



TEST NUMBER: P831273

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 |
| 2.5°   | 2957.5 | 2954.5 | 2951.4 | 2936.2 | 2921.0 | 2913.7 | 2906.4 | 2884.5 | 2862.5 | 2838.2 | 2813.8 |
| 5°     | 3305.7 | 3314.3 | 3322.8 | 3313.0 | 3303.3 | 3273.5 | 3243.6 | 3204.1 | 3164.5 | 3120.1 | 3075.6 |
| 7.5°   | 3466.5 | 3471.3 | 3476.2 | 3470.1 | 3464.0 | 3456.1 | 3448.2 | 3412.9 | 3377.6 | 3331.9 | 3286.3 |
| 10°    | 3299.7 | 3310.6 | 3321.6 | 3345.3 | 3369.1 | 3395.8 | 3422.6 | 3417.8 | 3412.9 | 3399.5 | 3386.1 |
| 12.5°  | 2933.2 | 2946.6 | 2959.9 | 3007.4 | 3054.9 | 3115.8 | 3176.7 | 3229.0 | 3281.4 | 3317.9 | 3354.4 |
| 15°    | 2437.6 | 2474.7 | 2511.9 | 2555.1 | 2598.3 | 2687.8 | 2777.3 | 2887.5 | 2997.7 | 3095.7 | 3193.7 |
| 17.5°  | 2007.8 | 2021.8 | 2035.8 | 2082.1 | 2128.3 | 2241.0 | 2353.6 | 2480.8 | 2608.1 | 2770.6 | 2933.2 |
| 20°    | 1652.3 | 1665.0 | 1677.8 | 1738.7 | 1799.6 | 1887.9 | 1976.1 | 2119.2 | 2262.3 | 2437.0 | 2611.7 |
| 22.5°  | 1388.0 | 1408.1 | 1428.2 | 1462.3 | 1496.4 | 1581.0 | 1665.7 | 1792.9 | 1920.1 | 2113.1 | 2306.1 |
| 25°    | 1215.2 | 1229.8 | 1244.4 | 1265.1 | 1285.8 | 1353.3 | 1420.9 | 1525.6 | 1630.3 | 1807.5 | 1984.7 |
| 27.5°  | 1097.0 | 1103.1 | 1109.2 | 1129.9 | 1150.6 | 1194.5 | 1238.3 | 1328.4 | 1418.5 | 1568.9 | 1719.2 |
| 30°    | 1004.5 | 1008.8 | 1013.0 | 1031.3 | 1049.6 | 1079.4 | 1109.2 | 1174.4 | 1239.5 | 1372.2 | 1504.9 |
| 32.5°  | 940.0  | 943.0  | 946.1  | 960.1  | 974.1  | 995.4  | 1016.7 | 1064.2 | 1111.7 | 1221.2 | 1330.8 |
| 35°    | 881.5  | 883.4  | 885.2  | 895.5  | 905.9  | 921.7  | 937.5  | 973.5  | 1009.4 | 1095.8 | 1182.3 |
| 37.5°  | 830.4  | 832.8  | 835.3  | 841.4  | 847.4  | 861.4  | 875.4  | 904.1  | 932.7  | 999.0  | 1065.4 |
| 40°    | 780.5  | 784.7  | 789.0  | 793.3  | 797.5  | 809.1  | 820.7  | 842.6  | 864.5  | 919.3  | 974.1  |
| 42.5°  | 737.9  | 742.1  | 746.4  | 748.2  | 750.0  | 756.7  | 763.4  | 783.5  | 803.6  | 844.4  | 885.2  |
| 45°    | 696.5  | 698.3  | 700.1  | 701.9  | 703.8  | 709.2  | 714.7  | 732.4  | 750.0  | 785.3  | 820.7  |
| 47.5°  | 658.7  | 658.7  | 658.7  | 659.9  | 661.1  | 666.0  | 670.9  | 683.7  | 696.5  | 723.9  | 751.3  |
| 50°    | 622.2  | 622.2  | 622.2  | 620.4  | 618.5  | 621.6  | 624.6  | 634.4  | 644.1  | 668.5  | 692.8  |
| 52.5°  | 578.4  | 578.4  | 578.4  | 579.0  | 579.6  | 579.6  | 579.6  | 588.1  | 596.6  | 618.5  | 640.4  |
| 55°    | 534.5  | 537.0  | 539.4  | 537.6  | 535.7  | 537.0  | 538.2  | 543.7  | 549.1  | 566.8  | 584.4  |
| 57.5°  | 490.7  | 491.9  | 493.1  | 492.5  | 491.9  | 492.5  | 493.1  | 498.0  | 502.9  | 516.3  | 529.6  |
| 60°    | 449.3  | 449.3  | 449.3  | 448.1  | 446.9  | 448.1  | 449.3  | 451.7  | 454.2  | 466.3  | 478.5  |
| 62.5°  | 403.0  | 403.6  | 404.2  | 404.8  | 405.5  | 404.2  | 403.0  | 406.1  | 409.1  | 418.2  | 427.4  |
| 65°    | 356.8  | 357.4  | 358.0  | 359.8  | 361.6  | 360.4  | 359.2  | 362.2  | 365.3  | 372.0  | 378.7  |
| 67.5°  | 315.4  | 314.1  | 312.9  | 313.5  | 314.1  | 316.0  | 317.8  | 318.4  | 319.0  | 326.3  | 333.6  |
| 70°    | 266.7  | 267.9  | 269.1  | 268.5  | 267.9  | 268.5  | 269.1  | 270.9  | 272.7  | 278.2  | 283.7  |
| 72.5°  | 222.8  | 223.4  | 224.0  | 224.0  | 224.0  | 225.3  | 226.5  | 228.3  | 230.1  | 233.2  | 236.2  |
| 75°    | 182.6  | 182.6  | 182.6  | 183.9  | 185.1  | 185.7  | 186.3  | 186.3  | 186.3  | 188.7  | 191.2  |
| 77.5°  | 138.8  | 141.8  | 144.9  | 144.3  | 143.7  | 144.9  | 146.1  | 147.9  | 149.8  | 151.0  | 152.2  |
| 80°    | 101.1  | 101.1  | 101.1  | 101.7  | 102.3  | 104.1  | 105.9  | 107.1  | 108.4  | 110.8  | 113.2  |
| 82.5°  | 64.5   | 65.1   | 65.7   | 67.6   | 69.4   | 70.6   | 71.8   | 73.7   | 75.5   | 75.5   | 75.5   |
| 85°    | 40.2   | 39.0   | 37.7   | 39.0   | 40.2   | 41.4   | 42.6   | 43.2   | 43.8   | 45.1   | 46.3   |
| 87.5°  | 19.5   | 19.5   | 19.5   | 19.5   | 19.5   | 20.1   | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   |
| 90°    | 13.6   | 13.4   | 13.2   | 13.0   | 12.8   | 12.5   | 12.0   | 11.6   | 11.2   | 10.8   | 9.5    |
| 92.5°  | 15.4   | 15.3   | 15.2   | 15.1   | 15.0   | 14.6   | 13.9   | 13.2   | 12.5   | 11.7   | 10.8   |
| 95°    | 17.2   | 17.2   | 17.2   | 17.2   | 17.2   | 16.8   | 16.1   | 15.4   | 14.7   | 14.0   | 12.9   |
| 97.5°  | 18.5   | 18.4   | 18.3   | 18.2   | 18.1   | 17.7   | 16.9   | 16.1   | 15.3   | 14.5   | 19.6   |
| 100°   | 19.0   | 18.9   | 18.8   | 18.7   | 18.6   | 18.1   | 17.3   | 16.5   | 15.7   | 14.9   | 30.6   |
| 102.5° | 19.4   | 19.2   | 19.0   | 18.8   | 18.6   | 20.2   | 23.5   | 26.8   | 30.1   | 33.4   | 50.9   |
| 105°   | 19.9   | 19.7   | 19.5   | 19.3   | 19.1   | 27.9   | 45.6   | 63.4   | 81.2   | 98.9   | 108.0  |
| 107.5° | 47.0   | 60.1   | 73.3   | 86.4   | 99.6   | 113.9  | 129.4  | 144.8  | 160.3  | 175.8  | 174.3  |
| 110°   | 124.3  | 138.6  | 153.0  | 167.3  | 181.7  | 190.5  | 193.8  | 197.1  | 200.5  | 203.8  | 202.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 235.4 | 235.6 | 235.8 | 236.0 | 236.2 | 235.9 | 234.9 | 234.0 | 233.1 | 232.2 | 231.1 |
| 115°   | 265.7 | 265.3 | 264.9 | 264.5 | 264.1 | 263.4 | 262.4 | 261.4 | 260.4 | 259.3 | 258.4 |
| 117.5° | 290.1 | 290.0 | 289.9 | 289.8 | 289.7 | 289.2 | 288.4 | 287.6 | 286.8 | 286.0 | 285.5 |
| 120°   | 315.4 | 315.4 | 315.4 | 315.4 | 315.4 | 315.0 | 314.2 | 313.4 | 312.6 | 311.8 | 311.5 |
| 122.5° | 340.2 | 340.1 | 340.0 | 339.9 | 339.8 | 339.5 | 339.0 | 338.5 | 338.0 | 337.5 | 337.1 |
| 125°   | 363.3 | 363.1 | 362.9 | 362.7 | 362.5 | 362.3 | 362.1 | 361.9 | 361.7 | 361.5 | 361.1 |
| 127.5° | 385.9 | 386.1 | 386.3 | 386.5 | 386.7 | 386.6 | 386.3 | 386.0 | 385.7 | 385.4 | 384.9 |
| 130°   | 407.5 | 407.7 | 407.9 | 408.1 | 408.3 | 408.2 | 407.8 | 407.4 | 407.0 | 406.6 | 406.2 |
| 132.5° | 427.4 | 427.7 | 428.0 | 428.3 | 428.6 | 428.6 | 428.2 | 427.8 | 427.4 | 427.0 | 426.7 |
| 135°   | 447.8 | 448.1 | 448.4 | 448.7 | 449.0 | 449.0 | 448.7 | 448.4 | 448.1 | 447.8 | 447.4 |
| 137.5° | 467.2 | 467.4 | 467.6 | 467.8 | 468.0 | 467.8 | 467.3 | 466.8 | 466.3 | 465.8 | 465.6 |
| 140°   | 484.4 | 484.6 | 484.8 | 485.0 | 485.2 | 485.1 | 484.7 | 484.3 | 483.9 | 483.5 | 483.2 |
| 142.5° | 500.2 | 500.5 | 500.8 | 501.1 | 501.4 | 501.4 | 501.1 | 500.8 | 500.5 | 500.2 | 499.9 |
| 145°   | 516.4 | 516.4 | 516.4 | 516.4 | 516.4 | 516.3 | 516.1 | 515.9 | 515.7 | 515.5 | 515.3 |
| 147.5° | 528.2 | 528.7 | 529.2 | 529.7 | 530.2 | 530.3 | 530.1 | 529.9 | 529.7 | 529.5 | 529.3 |
| 150°   | 541.7 | 542.0 | 542.3 | 542.6 | 542.9 | 543.0 | 542.8 | 542.6 | 542.4 | 542.2 | 542.0 |
| 152.5° | 552.6 | 553.1 | 553.6 | 554.1 | 554.6 | 554.6 | 554.2 | 553.8 | 553.4 | 553.0 | 552.9 |
| 155°   | 562.5 | 563.1 | 563.7 | 564.3 | 564.9 | 565.0 | 564.5 | 564.0 | 563.5 | 563.0 | 562.9 |
| 157.5° | 571.1 | 571.9 | 572.7 | 573.5 | 574.3 | 574.4 | 573.8 | 573.2 | 572.6 | 572.0 | 572.1 |
| 160°   | 579.2 | 579.9 | 580.6 | 581.3 | 582.1 | 582.1 | 581.5 | 580.9 | 580.3 | 579.7 | 579.8 |
| 162.5° | 586.9 | 587.5 | 588.1 | 588.7 | 589.3 | 589.3 | 588.6 | 587.9 | 587.2 | 586.5 | 586.6 |
| 165°   | 592.8 | 593.5 | 594.2 | 594.9 | 595.6 | 595.6 | 594.8 | 593.9 | 593.1 | 592.3 | 592.4 |
| 167.5° | 597.3 | 598.1 | 598.9 | 599.7 | 600.5 | 600.5 | 599.7 | 598.9 | 598.1 | 597.3 | 597.3 |
| 170°   | 601.4 | 602.2 | 603.0 | 603.8 | 604.6 | 604.6 | 603.8 | 603.0 | 602.2 | 601.4 | 601.4 |
| 172.5° | 603.6 | 604.5 | 605.4 | 606.3 | 607.3 | 607.3 | 606.5 | 605.7 | 604.9 | 604.1 | 604.0 |
| 175°   | 605.9 | 606.7 | 607.5 | 608.3 | 609.1 | 609.2 | 608.5 | 607.8 | 607.1 | 606.3 | 606.2 |
| 177.5° | 606.3 | 607.4 | 608.4 | 609.4 | 610.4 | 610.5 | 609.7 | 608.9 | 608.1 | 607.3 | 607.2 |
| 180°   | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 |



TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 |
| 2.5°   | 2806.5 | 2799.2 | 2772.4 | 2745.7 | 2715.2 | 2684.8 | 2662.3 | 2639.7 | 2606.2 | 2572.8 | 2545.4 |
| 5°     | 3041.5 | 3007.4 | 2950.8 | 2894.2 | 2817.5 | 2740.8 | 2689.0 | 2637.3 | 2567.9 | 2498.5 | 2443.1 |
| 7.5°   | 3227.8 | 3169.4 | 3090.2 | 3011.1 | 2910.6 | 2810.2 | 2715.2 | 2620.2 | 2514.3 | 2408.4 | 2321.9 |
| 10°    | 3346.5 | 3307.0 | 3215.6 | 3124.3 | 2989.8 | 2855.2 | 2722.5 | 2589.8 | 2453.4 | 2317.1 | 2202.6 |
| 12.5°  | 3358.1 | 3361.8 | 3277.7 | 3193.7 | 3041.5 | 2889.3 | 2728.0 | 2566.7 | 2395.0 | 2223.3 | 2090.0 |
| 15°    | 3256.4 | 3319.1 | 3272.9 | 3226.6 | 3073.2 | 2919.8 | 2721.3 | 2522.8 | 2325.0 | 2127.1 | 1973.1 |
| 17.5°  | 3067.7 | 3202.2 | 3208.9 | 3215.6 | 3062.2 | 2908.8 | 2689.0 | 2469.3 | 2245.2 | 2021.2 | 1859.3 |
| 20°    | 2810.2 | 3008.7 | 3076.8 | 3145.0 | 3020.2 | 2895.4 | 2659.2 | 2423.0 | 2172.2 | 1921.3 | 1751.5 |
| 22.5°  | 2547.2 | 2788.3 | 2913.1 | 3037.9 | 2945.3 | 2852.8 | 2601.4 | 2349.9 | 2085.1 | 1820.3 | 1648.0 |
| 25°    | 2247.7 | 2510.7 | 2702.4 | 2894.2 | 2837.6 | 2781.0 | 2533.2 | 2285.4 | 2003.5 | 1721.7 | 1545.7 |
| 27.5°  | 1986.5 | 2253.8 | 2485.1 | 2716.4 | 2704.3 | 2692.1 | 2446.1 | 2200.2 | 1911.6 | 1623.0 | 1453.2 |
| 30°    | 1753.9 | 2002.9 | 2261.7 | 2520.4 | 2550.2 | 2580.1 | 2342.6 | 2105.2 | 1816.0 | 1526.9 | 1363.1 |
| 32.5°  | 1548.2 | 1765.5 | 2043.1 | 2320.7 | 2379.2 | 2437.6 | 2223.3 | 2009.0 | 1722.9 | 1436.8 | 1279.1 |
| 35°    | 1379.5 | 1576.8 | 1854.4 | 2132.0 | 2205.0 | 2278.1 | 2091.8 | 1905.5 | 1626.7 | 1347.9 | 1197.5 |
| 37.5°  | 1230.4 | 1395.4 | 1666.3 | 1937.2 | 2026.7 | 2116.2 | 1949.4 | 1782.5 | 1521.4 | 1260.2 | 1122.0 |
| 40°    | 1106.8 | 1239.5 | 1488.5 | 1737.5 | 1841.0 | 1944.5 | 1806.9 | 1669.3 | 1421.5 | 1173.8 | 1046.5 |
| 42.5°  | 1003.3 | 1121.4 | 1347.3 | 1573.1 | 1672.4 | 1771.6 | 1655.3 | 1539.0 | 1318.6 | 1098.3 | 982.0  |
| 45°    | 915.0  | 1009.4 | 1214.5 | 1419.7 | 1514.1 | 1608.4 | 1508.6 | 1408.7 | 1214.5 | 1020.3 | 912.0  |
| 47.5°  | 832.2  | 913.2  | 1088.5 | 1263.9 | 1347.9 | 1431.9 | 1354.0 | 1276.0 | 1111.7 | 947.3  | 849.3  |
| 50°    | 757.9  | 823.1  | 976.5  | 1129.9 | 1203.0 | 1276.0 | 1207.2 | 1138.4 | 1003.3 | 868.1  | 782.9  |
| 52.5°  | 693.4  | 746.4  | 874.8  | 1003.3 | 1066.0 | 1128.7 | 1069.6 | 1010.6 | 903.4  | 796.3  | 722.0  |
| 55°    | 629.5  | 674.5  | 786.0  | 897.4  | 940.0  | 982.6  | 936.9  | 891.3  | 804.8  | 718.4  | 655.7  |
| 57.5°  | 569.8  | 610.0  | 701.3  | 792.6  | 825.5  | 858.4  | 817.0  | 775.6  | 710.5  | 645.3  | 593.0  |
| 60°    | 511.4  | 544.3  | 620.4  | 696.5  | 716.5  | 736.6  | 703.2  | 669.7  | 624.0  | 578.4  | 531.5  |
| 62.5°  | 457.2  | 487.0  | 543.7  | 600.3  | 613.7  | 627.1  | 601.5  | 575.9  | 541.2  | 506.5  | 470.0  |
| 65°    | 401.2  | 423.7  | 470.0  | 516.3  | 524.8  | 533.3  | 510.8  | 488.3  | 462.1  | 435.9  | 409.1  |
| 67.5°  | 349.4  | 365.3  | 403.0  | 440.8  | 441.4  | 442.0  | 423.7  | 405.5  | 390.8  | 376.2  | 354.9  |
| 70°    | 298.9  | 314.1  | 339.1  | 364.1  | 364.7  | 365.3  | 350.7  | 336.1  | 325.1  | 314.1  | 298.3  |
| 72.5°  | 247.2  | 258.1  | 277.0  | 295.9  | 294.7  | 293.4  | 284.3  | 275.2  | 266.7  | 258.1  | 246.6  |
| 75°    | 200.3  | 209.4  | 222.2  | 235.0  | 231.3  | 227.7  | 222.8  | 217.9  | 210.6  | 203.3  | 196.0  |
| 77.5°  | 157.7  | 163.2  | 170.5  | 177.8  | 175.3  | 172.9  | 168.6  | 164.4  | 158.9  | 153.4  | 150.4  |
| 80°    | 115.7  | 118.1  | 123.0  | 127.8  | 126.6  | 125.4  | 120.5  | 115.7  | 114.5  | 113.2  | 109.0  |
| 82.5°  | 78.5   | 81.6   | 82.8   | 84.0   | 83.4   | 82.8   | 79.1   | 75.5   | 74.3   | 73.1   | 72.4   |
| 85°    | 46.9   | 47.5   | 48.1   | 48.7   | 46.9   | 45.1   | 43.8   | 42.6   | 42.6   | 42.6   | 42.0   |
| 87.5°  | 21.3   | 21.9   | 21.9   | 21.9   | 21.3   | 20.7   | 19.5   | 18.3   | 18.9   | 19.5   | 19.5   |
| 90°    | 8.2    | 6.9    | 5.6    | 4.5    | 3.5    | 2.5    | 1.5    | 0.5    | 1.5    | 2.5    | 3.5    |
| 92.5°  | 9.9    | 9.0    | 8.1    | 8.0    | 8.6    | 9.2    | 9.8    | 10.4   | 9.8    | 9.2    | 8.6    |
| 95°    | 11.8   | 10.7   | 9.6    | 11.1   | 15.2   | 19.3   | 23.4   | 27.6   | 23.4   | 19.3   | 15.2   |
| 97.5°  | 24.7   | 29.8   | 34.9   | 38.9   | 41.7   | 44.5   | 47.3   | 50.2   | 47.3   | 44.5   | 41.7   |
| 100°   | 46.2   | 61.9   | 77.6   | 84.4   | 82.4   | 80.4   | 78.4   | 76.4   | 78.4   | 80.4   | 82.4   |
| 102.5° | 68.4   | 85.8   | 103.3  | 111.4  | 110.1  | 108.8  | 107.5  | 106.2  | 107.5  | 108.8  | 110.1  |
| 105°   | 117.0  | 126.1  | 135.1  | 139.1  | 138.0  | 136.9  | 135.7  | 134.6  | 135.7  | 136.9  | 138.0  |
| 107.5° | 172.7  | 171.2  | 169.7  | 168.5  | 167.6  | 166.7  | 165.8  | 164.9  | 165.8  | 166.7  | 167.6  |
| 110°   | 201.6  | 200.5  | 199.4  | 198.4  | 197.6  | 196.8  | 196.0  | 195.2  | 196.0  | 196.8  | 197.6  |





TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 230.0 | 228.9 | 227.8 | 226.9 | 226.2 | 225.5 | 224.8 | 224.1 | 224.8 | 225.5 | 226.2 |
| 115°   | 257.5 | 256.6 | 255.7 | 255.0 | 254.4 | 253.8 | 253.2 | 252.6 | 253.2 | 253.8 | 254.4 |
| 117.5° | 285.0 | 284.5 | 284.0 | 283.4 | 282.7 | 282.0 | 281.3 | 280.6 | 281.3 | 282.0 | 282.7 |
| 120°   | 311.2 | 310.9 | 310.6 | 310.0 | 309.0 | 308.1 | 307.2 | 306.3 | 307.2 | 308.1 | 309.0 |
| 122.5° | 336.7 | 336.3 | 335.9 | 335.4 | 334.7 | 333.9 | 333.2 | 332.5 | 333.2 | 333.9 | 334.7 |
| 125°   | 360.7 | 360.3 | 359.9 | 359.3 | 358.4 | 357.6 | 356.8 | 356.0 | 356.8 | 357.6 | 358.4 |
| 127.5° | 384.4 | 383.9 | 383.4 | 382.7 | 381.9 | 381.1 | 380.3 | 379.5 | 380.3 | 381.1 | 381.9 |
| 130°   | 405.8 | 405.4 | 405.0 | 404.4 | 403.6 | 402.8 | 402.0 | 401.2 | 402.0 | 402.8 | 403.6 |
| 132.5° | 426.4 | 426.1 | 425.8 | 425.2 | 424.4 | 423.6 | 422.8 | 422.0 | 422.8 | 423.6 | 424.4 |
| 135°   | 447.0 | 446.6 | 446.2 | 445.7 | 445.0 | 444.4 | 443.8 | 443.2 | 443.8 | 444.4 | 445.0 |
| 137.5° | 465.4 | 465.2 | 465.0 | 464.5 | 463.7 | 462.9 | 462.1 | 461.3 | 462.1 | 462.9 | 463.7 |
| 140°   | 482.9 | 482.5 | 482.2 | 481.8 | 481.2 | 480.6 | 480.0 | 479.4 | 480.0 | 480.6 | 481.2 |
| 142.5° | 499.6 | 499.3 | 499.0 | 498.5 | 497.9 | 497.3 | 496.7 | 496.1 | 496.7 | 497.3 | 497.9 |
| 145°   | 515.1 | 514.9 | 514.7 | 514.3 | 513.6 | 512.9 | 512.2 | 511.5 | 512.2 | 512.9 | 513.6 |
| 147.5° | 529.1 | 528.9 | 528.7 | 528.4 | 527.9 | 527.4 | 526.9 | 526.4 | 526.9 | 527.4 | 527.9 |
| 150°   | 541.8 | 541.6 | 541.4 | 541.1 | 540.8 | 540.5 | 540.2 | 539.9 | 540.2 | 540.5 | 540.8 |
| 152.5° | 552.8 | 552.7 | 552.6 | 552.5 | 552.4 | 552.3 | 552.2 | 552.1 | 552.2 | 552.3 | 552.4 |
| 155°   | 562.8 | 562.7 | 562.6 | 562.6 | 562.8 | 563.0 | 563.2 | 563.4 | 563.2 | 563.0 | 562.8 |
| 157.5° | 572.2 | 572.3 | 572.4 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 | 572.5 |
| 160°   | 579.9 | 580.0 | 580.1 | 580.2 | 580.3 | 580.4 | 580.5 | 580.6 | 580.5 | 580.4 | 580.3 |
| 162.5° | 586.7 | 586.8 | 586.9 | 587.1 | 587.4 | 587.7 | 588.0 | 588.3 | 588.0 | 587.7 | 587.4 |
| 165°   | 592.5 | 592.6 | 592.7 | 592.9 | 593.2 | 593.5 | 593.8 | 594.1 | 593.8 | 593.5 | 593.2 |
| 167.5° | 597.3 | 597.3 | 597.3 | 597.5 | 597.9 | 598.3 | 598.7 | 599.1 | 598.7 | 598.3 | 597.9 |
| 170°   | 601.4 | 601.4 | 601.4 | 601.6 | 602.0 | 602.4 | 602.8 | 603.2 | 602.8 | 602.4 | 602.0 |
| 172.5° | 603.9 | 603.8 | 603.7 | 603.9 | 604.4 | 604.9 | 605.4 | 605.9 | 605.4 | 604.9 | 604.4 |
| 175°   | 606.1 | 606.0 | 605.9 | 606.1 | 606.7 | 607.2 | 607.7 | 608.2 | 607.7 | 607.2 | 606.7 |
| 177.5° | 607.1 | 607.0 | 606.9 | 607.1 | 607.6 | 608.1 | 608.6 | 609.1 | 608.6 | 608.1 | 607.6 |
| 180°   | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 |



TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 | 2623.9 |
| 2.5°   | 2518.0 | 2494.2 | 2470.5 | 2452.2 | 2434.0 | 2402.9 | 2371.9 | 2364.6 | 2357.2 | 2346.9 | 2336.5 |
| 5°     | 2387.7 | 2329.2 | 2270.8 | 2218.4 | 2166.1 | 2125.3 | 2084.5 | 2057.7 | 2030.9 | 2011.5 | 1992.0 |
| 7.5°   | 2235.5 | 2147.8 | 2060.2 | 1998.1 | 1936.0 | 1876.9 | 1817.9 | 1799.0 | 1780.1 | 1754.5 | 1729.0 |
| 10°    | 2088.2 | 1991.4 | 1894.6 | 1813.6 | 1732.6 | 1674.8 | 1617.0 | 1593.8 | 1570.7 | 1538.4 | 1506.2 |
| 12.5°  | 1956.7 | 1850.7 | 1744.8 | 1663.2 | 1581.6 | 1525.6 | 1469.6 | 1436.1 | 1402.7 | 1384.4 | 1366.1 |
| 15°    | 1819.1 | 1705.8 | 1592.6 | 1517.1 | 1441.6 | 1391.1 | 1340.6 | 1311.3 | 1282.1 | 1264.5 | 1246.8 |
| 17.5°  | 1697.3 | 1585.3 | 1473.3 | 1400.8 | 1328.4 | 1282.1 | 1235.8 | 1210.3 | 1184.7 | 1171.3 | 1157.9 |
| 20°    | 1581.6 | 1472.1 | 1362.5 | 1291.9 | 1221.2 | 1183.5 | 1145.7 | 1129.3 | 1112.9 | 1101.9 | 1091.0 |
| 22.5°  | 1475.7 | 1368.0 | 1260.2 | 1199.9 | 1139.7 | 1109.2 | 1078.8 | 1067.2 | 1055.6 | 1046.5 | 1037.4 |
| 25°    | 1369.8 | 1273.6 | 1177.4 | 1126.3 | 1075.1 | 1050.2 | 1025.2 | 1013.6 | 1002.1 | 992.9  | 983.8  |
| 27.5°  | 1283.3 | 1191.4 | 1099.5 | 1055.6 | 1011.8 | 992.3  | 972.9  | 963.7  | 954.6  | 946.1  | 937.5  |
| 30°    | 1199.3 | 1117.1 | 1034.9 | 997.2  | 959.5  | 941.8  | 924.1  | 915.0  | 905.9  | 898.0  | 890.1  |
| 32.5°  | 1121.4 | 1050.8 | 980.2  | 945.5  | 910.8  | 896.1  | 881.5  | 870.6  | 859.6  | 853.5  | 847.4  |
| 35°    | 1047.1 | 983.8  | 920.5  | 891.9  | 863.3  | 848.7  | 834.0  | 824.9  | 815.8  | 810.9  | 806.0  |
| 37.5°  | 983.8  | 927.2  | 870.6  | 843.2  | 815.8  | 801.8  | 787.8  | 779.9  | 771.9  | 770.1  | 768.3  |
| 40°    | 919.3  | 870.6  | 821.9  | 795.1  | 768.3  | 756.1  | 743.9  | 739.1  | 734.2  | 733.0  | 731.8  |
| 42.5°  | 865.7  | 818.2  | 770.7  | 746.4  | 722.0  | 711.7  | 701.3  | 698.9  | 696.5  | 698.3  | 700.1  |
| 45°    | 803.6  | 764.0  | 724.5  | 701.9  | 679.4  | 670.9  | 662.4  | 660.5  | 658.7  | 662.4  | 666.0  |
| 47.5°  | 751.3  | 714.7  | 678.2  | 656.9  | 635.6  | 629.5  | 623.4  | 622.8  | 622.2  | 627.1  | 631.9  |
| 50°    | 697.7  | 662.4  | 627.1  | 610.0  | 593.0  | 587.5  | 582.0  | 583.8  | 585.7  | 593.6  | 601.5  |
| 52.5°  | 647.8  | 614.9  | 582.0  | 566.2  | 550.3  | 546.7  | 543.0  | 547.3  | 551.6  | 560.1  | 568.6  |
| 55°    | 593.0  | 563.1  | 533.3  | 521.1  | 509.0  | 505.3  | 501.6  | 510.2  | 518.7  | 526.6  | 534.5  |
| 57.5°  | 540.6  | 514.4  | 488.3  | 477.3  | 466.3  | 465.7  | 465.1  | 473.0  | 480.9  | 489.5  | 498.0  |
| 60°    | 484.6  | 462.7  | 440.8  | 432.2  | 423.7  | 424.9  | 426.2  | 435.3  | 444.4  | 451.1  | 457.8  |
| 62.5°  | 433.5  | 415.2  | 396.9  | 389.0  | 381.1  | 384.1  | 387.2  | 396.3  | 405.5  | 413.4  | 421.3  |
| 65°    | 382.3  | 367.1  | 351.9  | 346.4  | 340.9  | 345.2  | 349.4  | 357.4  | 365.3  | 370.8  | 376.2  |
| 67.5°  | 333.6  | 320.8  | 308.0  | 303.8  | 299.5  | 303.8  | 308.0  | 316.0  | 323.9  | 329.4  | 334.8  |
| 70°    | 282.5  | 272.1  | 261.8  | 258.7  | 255.7  | 260.6  | 265.4  | 272.1  | 278.8  | 284.3  | 289.8  |
| 72.5°  | 235.0  | 227.1  | 219.2  | 218.6  | 217.9  | 222.2  | 226.5  | 233.2  | 239.9  | 243.5  | 247.2  |
| 75°    | 188.7  | 184.5  | 180.2  | 179.6  | 179.0  | 183.2  | 187.5  | 191.2  | 194.8  | 197.9  | 200.9  |
| 77.5°  | 147.3  | 143.7  | 140.0  | 140.6  | 141.2  | 144.3  | 147.3  | 151.0  | 154.6  | 156.5  | 158.3  |
| 80°    | 104.7  | 103.5  | 102.3  | 103.5  | 104.7  | 107.1  | 109.6  | 112.0  | 114.5  | 115.7  | 116.9  |
| 82.5°  | 71.8   | 70.6   | 69.4   | 71.2   | 73.1   | 74.9   | 76.7   | 78.5   | 80.4   | 81.0   | 81.6   |
| 85°    | 41.4   | 43.2   | 45.1   | 45.1   | 45.1   | 45.7   | 46.3   | 46.9   | 47.5   | 46.9   | 46.3   |
| 87.5°  | 19.5   | 20.1   | 20.7   | 20.7   | 20.7   | 21.3   | 21.9   | 21.9   | 21.9   | 21.3   | 20.7   |
| 90°    | 4.5    | 5.6    | 6.9    | 8.2    | 9.5    | 10.8   | 11.2   | 11.6   | 12.0   | 12.5   | 12.8   |
| 92.5°  | 8.0    | 8.1    | 9.0    | 9.9    | 10.8   | 11.7   | 12.5   | 13.2   | 13.9   | 14.6   | 15.0   |
| 95°    | 11.1   | 9.6    | 10.7   | 11.8   | 12.9   | 14.0   | 14.7   | 15.4   | 16.1   | 16.8   | 17.2   |
| 97.5°  | 38.9   | 34.9   | 29.8   | 24.7   | 19.6   | 14.5   | 15.3   | 16.1   | 16.9   | 17.7   | 18.1   |
| 100°   | 84.4   | 77.6   | 61.9   | 46.2   | 30.6   | 14.9   | 15.7   | 16.5   | 17.3   | 18.1   | 18.6   |
| 102.5° | 111.4  | 103.3  | 85.8   | 68.4   | 50.9   | 33.4   | 30.1   | 26.8   | 23.5   | 20.2   | 18.6   |
| 105°   | 139.1  | 135.1  | 126.1  | 117.0  | 108.0  | 98.9   | 81.2   | 63.4   | 45.6   | 27.9   | 19.1   |
| 107.5° | 168.5  | 169.7  | 171.2  | 172.7  | 174.3  | 175.8  | 160.3  | 144.8  | 129.4  | 113.9  | 99.6   |
| 110°   | 198.4  | 199.4  | 200.5  | 201.6  | 202.7  | 203.8  | 200.5  | 197.1  | 193.8  | 190.5  | 181.7  |



TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 226.9 | 227.8 | 228.9 | 230.0 | 231.1 | 232.2 | 233.1 | 234.0 | 234.9 | 235.9 | 236.2 |
| 115°   | 255.0 | 255.7 | 256.6 | 257.5 | 258.4 | 259.3 | 260.4 | 261.4 | 262.4 | 263.4 | 264.1 |
| 117.5° | 283.4 | 284.0 | 284.5 | 285.0 | 285.5 | 286.0 | 286.8 | 287.6 | 288.4 | 289.2 | 289.7 |
| 120°   | 310.0 | 310.6 | 310.9 | 311.2 | 311.5 | 311.8 | 312.6 | 313.4 | 314.2 | 315.0 | 315.4 |
| 122.5° | 335.4 | 335.9 | 336.3 | 336.7 | 337.1 | 337.5 | 338.0 | 338.5 | 339.0 | 339.5 | 339.8 |
| 125°   | 359.3 | 359.9 | 360.3 | 360.7 | 361.1 | 361.5 | 361.7 | 361.9 | 362.1 | 362.3 | 362.5 |
| 127.5° | 382.7 | 383.4 | 383.9 | 384.4 | 384.9 | 385.4 | 385.7 | 386.0 | 386.3 | 386.6 | 386.7 |
| 130°   | 404.4 | 405.0 | 405.4 | 405.8 | 406.2 | 406.6 | 407.0 | 407.4 | 407.8 | 408.2 | 408.3 |
| 132.5° | 425.2 | 425.8 | 426.1 | 426.4 | 426.7 | 427.0 | 427.4 | 427.8 | 428.2 | 428.6 | 428.6 |
| 135°   | 445.7 | 446.2 | 446.6 | 447.0 | 447.4 | 447.8 | 448.1 | 448.4 | 448.7 | 449.0 | 449.0 |
| 137.5° | 464.5 | 465.0 | 465.2 | 465.4 | 465.6 | 465.8 | 466.3 | 466.8 | 467.3 | 467.8 | 468.0 |
| 140°   | 481.8 | 482.2 | 482.5 | 482.9 | 483.2 | 483.5 | 483.9 | 484.3 | 484.7 | 485.1 | 485.2 |
| 142.5° | 498.5 | 499.0 | 499.3 | 499.6 | 499.9 | 500.2 | 500.5 | 500.8 | 501.1 | 501.4 | 501.4 |
| 145°   | 514.3 | 514.7 | 514.9 | 515.1 | 515.3 | 515.5 | 515.7 | 515.9 | 516.1 | 516.3 | 516.4 |
| 147.5° | 528.4 | 528.7 | 528.9 | 529.1 | 529.3 | 529.5 | 529.7 | 529.9 | 530.1 | 530.3 | 530.2 |
| 150°   | 541.1 | 541.4 | 541.6 | 541.8 | 542.0 | 542.2 | 542.4 | 542.6 | 542.8 | 543.0 | 542.9 |
| 152.5° | 552.5 | 552.6 | 552.7 | 552.8 | 552.9 | 553.0 | 553.4 | 553.8 | 554.2 | 554.6 | 554.6 |
| 155°   | 562.6 | 562.6 | 562.7 | 562.8 | 562.9 | 563.0 | 563.5 | 564.0 | 564.5 | 565.0 | 564.9 |
| 157.5° | 572.5 | 572.4 | 572.3 | 572.2 | 572.1 | 572.0 | 572.6 | 573.2 | 573.8 | 574.4 | 574.3 |
| 160°   | 580.2 | 580.1 | 580.0 | 579.9 | 579.8 | 579.7 | 580.3 | 580.9 | 581.5 | 582.1 | 582.1 |
| 162.5° | 587.1 | 586.9 | 586.8 | 586.7 | 586.6 | 586.5 | 587.2 | 587.9 | 588.6 | 589.3 | 589.3 |
| 165°   | 592.9 | 592.7 | 592.6 | 592.5 | 592.4 | 592.3 | 593.1 | 593.9 | 594.8 | 595.6 | 595.6 |
| 167.5° | 597.5 | 597.3 | 597.3 | 597.3 | 597.3 | 597.3 | 598.1 | 598.9 | 599.7 | 600.5 | 600.5 |
| 170°   | 601.6 | 601.4 | 601.4 | 601.4 | 601.4 | 601.4 | 602.2 | 603.0 | 603.8 | 604.6 | 604.6 |
| 172.5° | 603.9 | 603.7 | 603.8 | 603.9 | 604.0 | 604.1 | 604.9 | 605.7 | 606.5 | 607.3 | 607.3 |
| 175°   | 606.1 | 605.9 | 606.0 | 606.1 | 606.2 | 606.3 | 607.1 | 607.8 | 608.5 | 609.2 | 609.1 |
| 177.5° | 607.1 | 606.9 | 607.0 | 607.1 | 607.2 | 607.3 | 608.1 | 608.9 | 609.7 | 610.5 | 610.4 |
| 180°   | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 | 608.2 |



TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 2623.9 | 2623.9 | 2623.9 | 2623.9 |
| 2.5°   | 2332.3 | 2328.0 | 2311.0 | 2293.9 |
| 5°     | 1977.4 | 1962.7 | 1957.9 | 1953.0 |
| 7.5°   | 1727.8 | 1726.5 | 1701.0 | 1675.4 |
| 10°    | 1508.0 | 1509.8 | 1486.7 | 1463.5 |
| 12.5°  | 1350.9 | 1335.7 | 1333.9 | 1332.0 |
| 15°    | 1232.8 | 1218.8 | 1216.4 | 1213.9 |
| 17.5°  | 1149.4 | 1140.9 | 1138.4 | 1136.0 |
| 20°    | 1086.1 | 1081.2 | 1077.0 | 1072.7 |
| 22.5°  | 1031.3 | 1025.2 | 1021.6 | 1017.9 |
| 25°    | 978.3  | 972.9  | 971.6  | 970.4  |
| 27.5°  | 930.8  | 924.1  | 924.1  | 924.1  |
| 30°    | 885.8  | 881.5  | 879.7  | 877.9  |
| 32.5°  | 843.8  | 840.1  | 840.1  | 840.1  |
| 35°    | 804.2  | 802.4  | 800.0  | 797.5  |
| 37.5°  | 768.3  | 768.3  | 767.1  | 765.9  |
| 40°    | 733.6  | 735.4  | 735.4  | 735.4  |
| 42.5°  | 701.9  | 703.8  | 703.8  | 703.8  |
| 45°    | 669.1  | 672.1  | 673.3  | 674.5  |
| 47.5°  | 636.8  | 641.7  | 642.9  | 644.1  |
| 50°    | 605.1  | 608.8  | 609.4  | 610.0  |
| 52.5°  | 572.9  | 577.1  | 580.2  | 583.2  |
| 55°    | 538.8  | 543.0  | 544.9  | 546.7  |
| 57.5°  | 502.3  | 506.5  | 507.1  | 507.7  |
| 60°    | 462.1  | 466.3  | 467.6  | 468.8  |
| 62.5°  | 423.7  | 426.2  | 427.4  | 428.6  |
| 65°    | 379.9  | 383.5  | 386.0  | 388.4  |
| 67.5°  | 337.9  | 340.9  | 340.9  | 340.9  |
| 70°    | 291.0  | 292.2  | 294.0  | 295.9  |
| 72.5°  | 247.8  | 248.4  | 248.4  | 248.4  |
| 75°    | 202.1  | 203.3  | 203.9  | 204.6  |
| 77.5°  | 158.9  | 159.5  | 159.5  | 159.5  |
| 80°    | 116.3  | 115.7  | 115.7  | 115.7  |
| 82.5°  | 79.8   | 77.9   | 77.9   | 77.9   |
| 85°    | 45.7   | 45.1   | 45.7   | 46.3   |
| 87.5°  | 20.7   | 20.7   | 20.7   | 20.7   |
| 90°    | 13.0   | 13.2   | 13.4   | 13.6   |
| 92.5°  | 15.1   | 15.2   | 15.3   | 15.4   |
| 95°    | 17.2   | 17.2   | 17.2   | 17.2   |
| 97.5°  | 18.2   | 18.3   | 18.4   | 18.5   |
| 100°   | 18.7   | 18.8   | 18.9   | 19.0   |
| 102.5° | 18.8   | 19.0   | 19.2   | 19.4   |
| 105°   | 19.3   | 19.5   | 19.7   | 19.9   |
| 107.5° | 86.4   | 73.3   | 60.1   | 47.0   |
| 110°   | 167.3  | 153.0  | 138.6  | 124.3  |



TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 236.0 | 235.8 | 235.6 | 235.4 |
| 115°   | 264.5 | 264.9 | 265.3 | 265.7 |
| 117.5° | 289.8 | 289.9 | 290.0 | 290.1 |
| 120°   | 315.4 | 315.4 | 315.4 | 315.4 |
| 122.5° | 339.9 | 340.0 | 340.1 | 340.2 |
| 125°   | 362.7 | 362.9 | 363.1 | 363.3 |
| 127.5° | 386.5 | 386.3 | 386.1 | 385.9 |
| 130°   | 408.1 | 407.9 | 407.7 | 407.5 |
| 132.5° | 428.3 | 428.0 | 427.7 | 427.4 |
| 135°   | 448.7 | 448.4 | 448.1 | 447.8 |
| 137.5° | 467.8 | 467.6 | 467.4 | 467.2 |
| 140°   | 485.0 | 484.8 | 484.6 | 484.4 |
| 142.5° | 501.1 | 500.8 | 500.5 | 500.2 |
| 145°   | 516.4 | 516.4 | 516.4 | 516.4 |
| 147.5° | 529.7 | 529.2 | 528.7 | 528.2 |
| 150°   | 542.6 | 542.3 | 542.0 | 541.7 |
| 152.5° | 554.1 | 553.6 | 553.1 | 552.6 |
| 155°   | 564.3 | 563.7 | 563.1 | 562.5 |
| 157.5° | 573.5 | 572.7 | 571.9 | 571.1 |
| 160°   | 581.3 | 580.6 | 579.9 | 579.2 |
| 162.5° | 588.7 | 588.1 | 587.5 | 586.9 |
| 165°   | 594.9 | 594.2 | 593.5 | 592.8 |
| 167.5° | 599.7 | 598.9 | 598.1 | 597.3 |
| 170°   | 603.8 | 603.0 | 602.2 | 601.4 |
| 172.5° | 606.3 | 605.4 | 604.5 | 603.6 |
| 175°   | 608.3 | 607.5 | 606.7 | 605.9 |
| 177.5° | 609.4 | 608.4 | 607.4 | 606.3 |
| 180°   | 608.2 | 608.2 | 608.2 | 608.2 |



TEST NUMBER: P831273

CATALOG NUMBER: S123DIP-S1165D585U927-4F0-1E-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 | 16.83            | 17.84 | 17.61 | 18.64 | 19.60 | 19.07          | 20.08 | 19.84 | 20.87 | 21.84 |
|                 | 3H   | 18.49            | 19.40 | 19.28 | 20.20 | 21.20 | 20.50          | 21.41 | 21.29 | 22.21 | 23.21 |
|                 | 4H   | 19.07            | 19.93 | 19.88 | 20.74 | 21.75 | 20.96          | 21.81 | 21.77 | 22.63 | 23.63 |
|                 | 6H   | 19.45            | 20.24 | 20.27 | 21.06 | 22.08 | 21.24          | 22.03 | 22.06 | 22.85 | 23.87 |
|                 | 8H   | 19.55            | 20.30 | 20.38 | 21.14 | 22.16 | 21.31          | 22.06 | 22.14 | 22.90 | 23.92 |
|                 | 12H  | 19.60            | 20.32 | 20.44 | 21.15 | 22.20 | 21.33          | 22.05 | 22.17 | 22.88 | 23.93 |
| 4H              | 2H   | 17.42            | 18.28 | 18.24 | 19.09 | 20.10 | 19.25          | 20.10 | 20.06 | 20.92 | 21.92 |
|                 | 3H   | 19.26            | 19.98 | 20.09 | 20.82 | 21.85 | 20.88          | 21.59 | 21.70 | 22.44 | 23.46 |
|                 | 4H   | 19.97            | 20.61 | 20.81 | 21.46 | 22.51 | 21.47          | 22.12 | 22.31 | 22.96 | 24.01 |
|                 | 6H   | 20.45            | 21.01 | 21.31 | 21.88 | 22.94 | 21.88          | 22.44 | 22.74 | 23.31 | 24.36 |
|                 | 8H   | 20.59            | 21.11 | 21.45 | 21.98 | 23.04 | 22.00          | 22.52 | 22.85 | 23.38 | 24.45 |
|                 | 12H  | 20.67            | 21.13 | 21.54 | 22.02 | 23.09 | 22.05          | 22.52 | 22.92 | 23.40 | 24.47 |
| 8H              | 4H   | 20.25            | 20.77 | 21.10 | 21.63 | 22.70 | 21.59          | 22.11 | 22.44 | 22.97 | 24.04 |
|                 | 6H   | 20.84            | 21.27 | 21.72 | 22.18 | 23.24 | 22.09          | 22.52 | 22.98 | 23.43 | 24.50 |
|                 | 8H   | 21.05            | 21.43 | 21.94 | 22.33 | 23.42 | 22.27          | 22.65 | 23.17 | 23.56 | 24.64 |
|                 | 12H  | 21.18            | 21.51 | 22.08 | 22.41 | 23.55 | 22.38          | 22.72 | 23.28 | 23.61 | 24.75 |
| 12H             | 4H   | 20.25            | 20.72 | 21.13 | 21.61 | 22.68 | 21.57          | 22.04 | 22.44 | 22.92 | 23.99 |
|                 | 6H   | 20.89            | 21.27 | 21.79 | 22.17 | 23.26 | 22.11          | 22.49 | 23.00 | 23.39 | 24.48 |
|                 | 8H   | 21.13            | 21.47 | 22.03 | 22.36 | 23.50 | 22.32          | 22.65 | 23.21 | 23.54 | 24.68 |