

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: P831118

Luminaire Tested: S123DIP-S1000D365U935-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831118  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D365U935-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

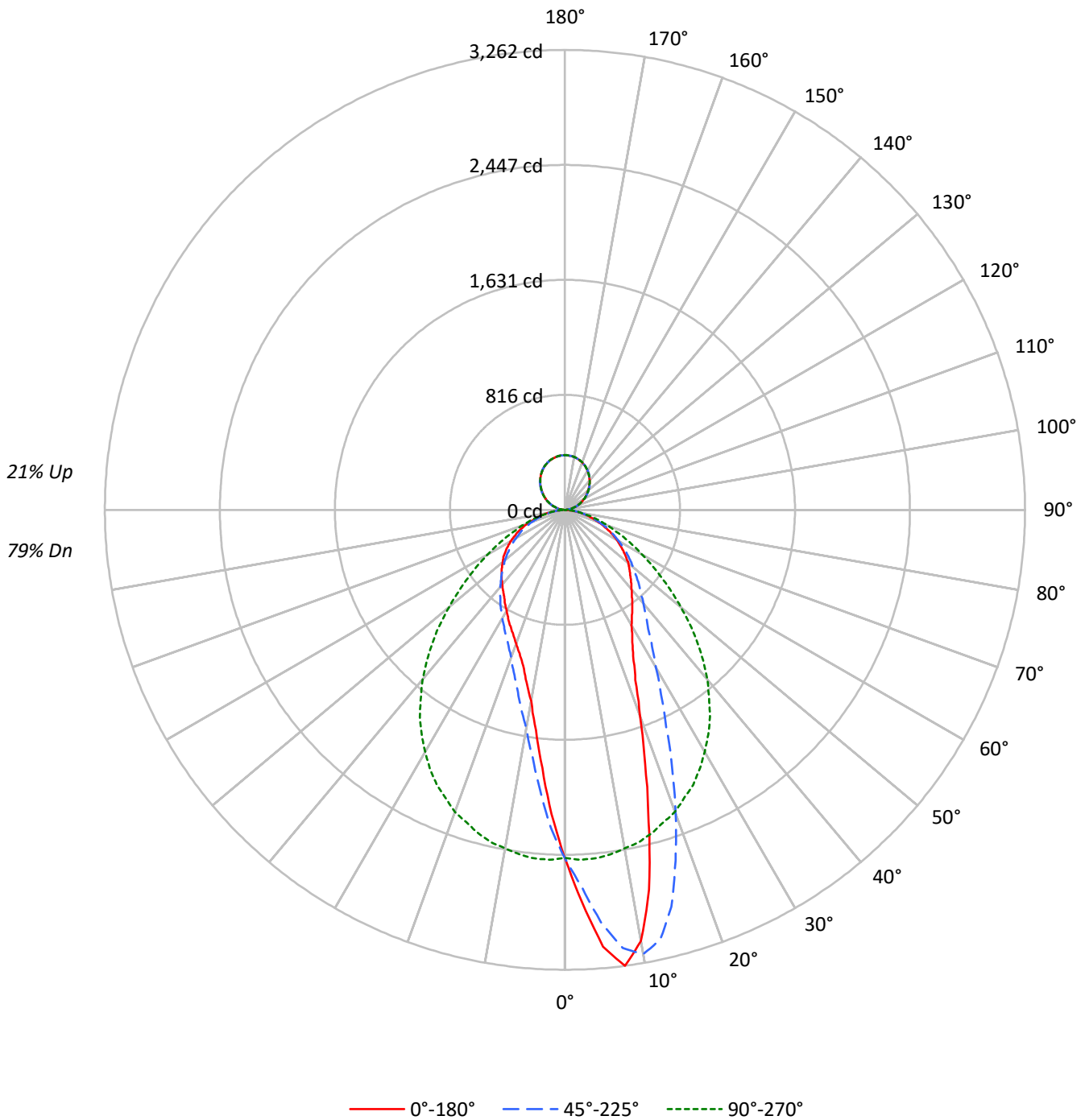
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5043.4 lumens  
Efficiency: N/A  
Efficacy: 111.8 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): 45.1  
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

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CATALOG NUMBER: S123DIP-S1000D365U935-4F0-1E-UDD-G1

### Luminous Intensity Polar Plot





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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   | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 99 | 99 | 99 | 91 | 91 | 91 | 82 | 82 | 82 | 79 |    |    |    |   |
| 1   | 105 | 101 | 97  | 94  | 100 | 96  | 93  | 90  | 88 | 86 | 83 | 81 | 79 | 77 | 74 | 73 | 71 | 68 |    |    |    |   |
| 2   | 96  | 89  | 83  | 78  | 92  | 85  | 80  | 75  | 79 | 74 | 71 | 72 | 69 | 66 | 66 | 64 | 61 | 58 |    |    |    |   |
| 3   | 89  | 79  | 72  | 66  | 84  | 76  | 70  | 64  | 70 | 65 | 61 | 65 | 61 | 57 | 60 | 56 | 53 | 51 |    |    |    |   |
| 4   | 82  | 71  | 63  | 57  | 78  | 68  | 61  | 56  | 63 | 57 | 53 | 59 | 54 | 50 | 54 | 50 | 47 | 44 |    |    |    |   |
| 5   | 76  | 64  | 56  | 50  | 72  | 62  | 54  | 49  | 57 | 51 | 46 | 53 | 48 | 44 | 49 | 45 | 42 | 39 |    |    |    |   |
| 6   | 70  | 58  | 50  | 44  | 67  | 56  | 49  | 43  | 52 | 46 | 41 | 49 | 43 | 39 | 45 | 41 | 38 | 35 |    |    |    |   |
| 7   | 65  | 53  | 45  | 40  | 63  | 51  | 44  | 39  | 48 | 42 | 37 | 45 | 40 | 36 | 42 | 37 | 34 | 32 |    |    |    |   |
| 8   | 61  | 49  | 41  | 36  | 59  | 47  | 40  | 35  | 44 | 38 | 34 | 42 | 36 | 32 | 39 | 34 | 31 | 29 |    |    |    |   |
| 9   | 57  | 45  | 38  | 33  | 55  | 44  | 37  | 32  | 41 | 35 | 31 | 39 | 33 | 30 | 36 | 32 | 28 | 27 |    |    |    |   |
| 10  | 54  | 42  | 35  | 30  | 52  | 41  | 34  | 29  | 38 | 32 | 28 | 36 | 31 | 27 | 34 | 29 | 26 | 24 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 26579 | 26579 | 26579 | 26579 | 26579 |
| 5°  | 33613 | 31726 | 26817 | 21610 | 19859 |
| 10° | 33940 | 34967 | 26639 | 17227 | 15054 |
| 15° | 25563 | 32465 | 26457 | 14588 | 12730 |
| 20° | 17811 | 26270 | 26119 | 12757 | 11564 |
| 25° | 13581 | 20202 | 25543 | 11738 | 10846 |
| 30° | 11749 | 16051 | 24623 | 11016 | 10268 |
| 35° | 10901 | 13550 | 23563 | 10494 | 9862  |
| 40° | 10321 | 12156 | 22073 | 9999  | 9725  |
| 45° | 9977  | 11251 | 20180 | 9611  | 9663  |
| 50° | 9805  | 10535 | 17941 | 9259  | 9614  |
| 55° | 9439  | 10010 | 15739 | 8923  | 9655  |
| 60° | 9102  | 9449  | 13567 | 8609  | 9496  |
| 65° | 8550  | 8917  | 11703 | 8273  | 9309  |
| 70° | 7896  | 8239  | 9951  | 7717  | 8762  |
| 75° | 7149  | 7386  | 8530  | 7170  | 8006  |
| 80° | 5895  | 6465  | 6750  | 6248  | 6750  |
| 85° | 4668  | 5236  | 4952  | 5311  | 5372  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 23041 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 233.4  | 4.6       |
| 10°-20°   | 580.8  | 11.5      |
| 20°-30°   | 687.6  | 13.6      |
| 30°-40°   | 691.4  | 13.7      |
| 40°-50°   | 634.3  | 12.6      |
| 50°-60°   | 523.6  | 10.4      |
| 60°-70°   | 370.4  | 7.3       |
| 70°-80°   | 197.7  | 3.9       |
| 80°-90°   | 51.0   | 1.0       |
| 90°-100°  | 24.9   | 0.5       |
| 100°-110° | 75.5   | 1.5       |
| 110°-120° | 128.5  | 2.5       |
| 120°-130° | 169.0  | 3.4       |
| 130°-140° | 190.0  | 3.8       |
| 140°-150° | 186.8  | 3.7       |
| 150°-160° | 157.2  | 3.1       |
| 160°-170° | 104.7  | 2.1       |
| 170°-180° | 36.7   | 0.7       |
| 0°-30°    | 1501.8 | 29.8      |
| 0°-40°    | 2193.3 | 43.5      |
| 0°-60°    | 3351.2 | 66.4      |
| 0°-90°    | 3970.2 | 78.7      |
| 90°-120°  | 228.9  | 4.5       |
| 90°-150°  | 774.6  | 15.4      |
| 90°-180°  | 1073.0 | 21.3      |
| 0°-180°   | 5043.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2469 | 2469 | 2469 | 2469 | 2469 |      |
| 5°   | 3111 | 2936 | 2482 | 2000 | 1838 | 296  |
| 15°  | 2294 | 2913 | 2374 | 1309 | 1142 | 634  |
| 25°  | 1144 | 1701 | 2151 | 988  | 913  | 540  |
| 35°  | 830  | 1031 | 1793 | 799  | 750  | 521  |
| 45°  | 655  | 739  | 1326 | 631  | 635  | 508  |
| 55°  | 503  | 533  | 839  | 476  | 514  | 450  |
| 65°  | 336  | 350  | 460  | 325  | 366  | 334  |
| 75°  | 172  | 178  | 205  | 172  | 192  | 181  |
| 85°  | 38   | 42   | 40   | 43   | 44   | 42   |
| 90°  | 9    | 7    | 0    | 7    | 9    | 7    |
| 95°  | 24   | 22   | 18   | 22   | 24   | 24   |
| 105° | 72   | 72   | 68   | 72   | 72   | 77   |
| 115° | 130  | 130  | 129  | 130  | 130  | 128  |
| 125° | 187  | 190  | 189  | 190  | 187  | 167  |
| 135° | 245  | 247  | 246  | 247  | 245  | 189  |
| 145° | 298  | 299  | 298  | 299  | 298  | 186  |
| 155° | 340  | 341  | 341  | 341  | 340  | 157  |
| 165° | 370  | 371  | 372  | 371  | 370  | 104  |
| 175° | 385  | 385  | 386  | 385  | 385  | 37   |
| 180° | 387  | 387  | 387  | 387  | 387  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 |
| 2.5°   | 2783.2 | 2780.4 | 2777.5 | 2763.2 | 2748.8 | 2742.0 | 2735.1 | 2714.5 | 2693.8 | 2670.9 | 2648.0 |
| 5°     | 3110.9 | 3119.0 | 3127.0 | 3117.8 | 3108.6 | 3080.6 | 3052.5 | 3015.3 | 2978.0 | 2936.2 | 2894.4 |
| 7.5°   | 3262.2 | 3266.8 | 3271.3 | 3265.6 | 3259.9 | 3252.4 | 3245.0 | 3211.8 | 3178.5 | 3135.6 | 3092.6 |
| 10°    | 3105.2 | 3115.5 | 3125.8 | 3148.2 | 3170.5 | 3195.7 | 3220.9 | 3216.3 | 3211.8 | 3199.2 | 3186.6 |
| 12.5°  | 2760.3 | 2772.9 | 2785.5 | 2830.2 | 2874.9 | 2932.2 | 2989.5 | 3038.7 | 3088.0 | 3122.4 | 3156.8 |
| 15°    | 2294.0 | 2328.9 | 2363.8 | 2404.5 | 2445.2 | 2529.4 | 2613.6 | 2717.3 | 2821.0 | 2913.3 | 3005.5 |
| 17.5°  | 1889.5 | 1902.7 | 1915.8 | 1959.4 | 2002.9 | 2108.9 | 2214.9 | 2334.6 | 2454.4 | 2607.3 | 2760.3 |
| 20°    | 1554.9 | 1566.9 | 1579.0 | 1636.2 | 1693.5 | 1776.6 | 1859.7 | 1994.3 | 2129.0 | 2293.4 | 2457.8 |
| 22.5°  | 1306.2 | 1325.2 | 1344.1 | 1376.1 | 1408.2 | 1487.9 | 1567.5 | 1687.2 | 1807.0 | 1988.6 | 2170.2 |
| 25°    | 1143.5 | 1157.3 | 1171.0 | 1190.5 | 1210.0 | 1273.6 | 1337.2 | 1435.7 | 1534.3 | 1701.0 | 1867.7 |
| 27.5°  | 1032.4 | 1038.1 | 1043.9 | 1063.3 | 1082.8 | 1124.1 | 1165.3 | 1250.1 | 1334.9 | 1476.4 | 1617.9 |
| 30°    | 945.3  | 949.3  | 953.3  | 970.5  | 987.7  | 1015.8 | 1043.9 | 1105.2 | 1166.5 | 1291.4 | 1416.2 |
| 32.5°  | 884.6  | 887.4  | 890.3  | 903.5  | 916.7  | 936.7  | 956.8  | 1001.5 | 1046.1 | 1149.3 | 1252.4 |
| 35°    | 829.6  | 831.3  | 833.0  | 842.8  | 852.5  | 867.4  | 882.3  | 916.1  | 949.9  | 1031.2 | 1112.6 |
| 37.5°  | 781.5  | 783.7  | 786.0  | 791.8  | 797.5  | 810.7  | 823.9  | 850.8  | 877.7  | 940.2  | 1002.6 |
| 40°    | 734.5  | 738.5  | 742.5  | 746.5  | 750.5  | 761.4  | 772.3  | 792.9  | 813.5  | 865.1  | 916.7  |
| 42.5°  | 694.4  | 698.4  | 702.4  | 704.1  | 705.8  | 712.1  | 718.4  | 737.3  | 756.2  | 794.6  | 833.0  |
| 45°    | 655.4  | 657.1  | 658.9  | 660.6  | 662.3  | 667.4  | 672.6  | 689.2  | 705.8  | 739.1  | 772.3  |
| 47.5°  | 619.9  | 619.9  | 619.9  | 621.0  | 622.2  | 626.8  | 631.4  | 643.4  | 655.4  | 681.2  | 707.0  |
| 50°    | 585.5  | 585.5  | 585.5  | 583.8  | 582.1  | 584.9  | 587.8  | 597.0  | 606.1  | 629.1  | 652.0  |
| 52.5°  | 544.3  | 544.3  | 544.3  | 544.8  | 545.4  | 545.4  | 545.4  | 553.4  | 561.5  | 582.1  | 602.7  |
| 55°    | 503.0  | 505.3  | 507.6  | 505.9  | 504.2  | 505.3  | 506.5  | 511.6  | 516.8  | 533.4  | 550.0  |
| 57.5°  | 461.8  | 462.9  | 464.1  | 463.5  | 462.9  | 463.5  | 464.1  | 468.6  | 473.2  | 485.8  | 498.4  |
| 60°    | 422.8  | 422.8  | 422.8  | 421.7  | 420.5  | 421.7  | 422.8  | 425.1  | 427.4  | 438.9  | 450.3  |
| 62.5°  | 379.3  | 379.8  | 380.4  | 381.0  | 381.6  | 380.4  | 379.3  | 382.1  | 385.0  | 393.6  | 402.2  |
| 65°    | 335.7  | 336.3  | 336.9  | 338.6  | 340.3  | 339.2  | 338.0  | 340.9  | 343.7  | 350.1  | 356.4  |
| 67.5°  | 296.8  | 295.6  | 294.5  | 295.1  | 295.6  | 297.3  | 299.1  | 299.6  | 300.2  | 307.1  | 314.0  |
| 70°    | 250.9  | 252.1  | 253.2  | 252.7  | 252.1  | 252.7  | 253.2  | 254.9  | 256.7  | 261.8  | 267.0  |
| 72.5°  | 209.7  | 210.3  | 210.8  | 210.8  | 210.8  | 212.0  | 213.1  | 214.8  | 216.6  | 219.4  | 222.3  |
| 75°    | 171.9  | 171.9  | 171.9  | 173.0  | 174.2  | 174.7  | 175.3  | 175.3  | 175.3  | 177.6  | 179.9  |
| 77.5°  | 130.6  | 133.5  | 136.4  | 135.8  | 135.2  | 136.4  | 137.5  | 139.2  | 140.9  | 142.1  | 143.2  |
| 80°    | 95.1   | 95.1   | 95.1   | 95.7   | 96.2   | 98.0   | 99.7   | 100.8  | 102.0  | 104.3  | 106.6  |
| 82.5°  | 60.7   | 61.3   | 61.9   | 63.6   | 65.3   | 66.5   | 67.6   | 69.3   | 71.0   | 71.0   | 71.0   |
| 85°    | 37.8   | 36.7   | 35.5   | 36.7   | 37.8   | 39.0   | 40.1   | 40.7   | 41.2   | 42.4   | 43.5   |
| 87.5°  | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   | 18.9   | 19.5   | 19.5   | 19.5   | 19.5   | 19.5   |
| 90°    | 9.1    | 9.0    | 8.9    | 8.7    | 8.6    | 8.4    | 8.1    | 7.8    | 7.6    | 7.3    | 6.4    |
| 92.5°  | 13.1   | 13.2   | 13.4   | 13.5   | 13.6   | 13.6   | 13.4   | 13.2   | 13.0   | 12.8   | 12.4   |
| 95°    | 23.7   | 23.7   | 23.7   | 23.7   | 23.7   | 23.6   | 23.3   | 23.1   | 22.8   | 22.5   | 22.0   |
| 97.5°  | 34.1   | 34.1   | 34.2   | 34.3   | 34.3   | 34.2   | 33.9   | 33.5   | 33.2   | 32.9   | 32.5   |
| 100°   | 46.2   | 46.1   | 46.0   | 45.8   | 45.7   | 45.5   | 45.3   | 45.1   | 44.9   | 44.7   | 44.4   |
| 102.5° | 58.7   | 58.8   | 58.9   | 58.9   | 59.0   | 58.9   | 58.7   | 58.5   | 58.3   | 58.1   | 57.6   |
| 105°   | 72.4   | 72.3   | 72.1   | 72.0   | 71.9   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.2   |
| 107.5° | 86.4   | 86.5   | 86.5   | 86.6   | 86.7   | 86.6   | 86.4   | 86.2   | 86.0   | 85.8   | 85.5   |
| 110°   | 100.7  | 100.8  | 101.0  | 101.1  | 101.3  | 101.2  | 100.9  | 100.6  | 100.4  | 100.1  | 100.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 115.9 | 115.9 | 115.9 | 115.9 | 115.9 | 115.8 | 115.4 | 115.1 | 114.7 | 114.4 | 114.4 |
| 115°   | 129.6 | 129.7 | 129.8 | 129.8 | 129.9 | 129.9 | 129.8 | 129.8 | 129.7 | 129.6 | 129.8 |
| 117.5° | 143.6 | 143.8 | 144.0 | 144.2 | 144.4 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.7 |
| 120°   | 158.5 | 158.7 | 158.8 | 158.9 | 159.1 | 159.2 | 159.2 | 159.3 | 159.4 | 159.4 | 159.8 |
| 122.5° | 172.8 | 173.0 | 173.2 | 173.4 | 173.6 | 173.8 | 174.0 | 174.2 | 174.4 | 174.7 | 174.8 |
| 125°   | 187.1 | 187.4 | 187.7 | 187.9 | 188.2 | 188.5 | 188.7 | 189.0 | 189.3 | 189.6 | 189.7 |
| 127.5° | 201.4 | 201.7 | 202.0 | 202.2 | 202.5 | 202.8 | 203.3 | 203.7 | 204.1 | 204.5 | 204.6 |
| 130°   | 215.4 | 215.9 | 216.4 | 216.8 | 217.3 | 217.7 | 218.0 | 218.2 | 218.5 | 218.8 | 219.0 |
| 132.5° | 230.0 | 230.4 | 230.7 | 231.0 | 231.4 | 231.7 | 232.1 | 232.4 | 232.7 | 233.1 | 233.2 |
| 135°   | 245.2 | 245.4 | 245.5 | 245.6 | 245.8 | 246.0 | 246.3 | 246.5 | 246.8 | 247.1 | 247.1 |
| 137.5° | 258.6 | 258.8 | 259.0 | 259.2 | 259.4 | 259.7 | 260.0 | 260.4 | 260.7 | 261.1 | 260.9 |
| 140°   | 271.7 | 272.2 | 272.7 | 273.1 | 273.6 | 273.9 | 273.9 | 274.0 | 274.1 | 274.1 | 274.1 |
| 142.5° | 285.1 | 285.4 | 285.8 | 286.1 | 286.5 | 286.7 | 286.7 | 286.8 | 286.9 | 286.9 | 286.8 |
| 145°   | 297.9 | 298.1 | 298.4 | 298.7 | 299.0 | 299.1 | 299.2 | 299.3 | 299.3 | 299.4 | 299.2 |
| 147.5° | 309.4 | 309.8 | 310.3 | 310.7 | 311.1 | 311.3 | 311.3 | 311.3 | 311.3 | 311.3 | 311.1 |
| 150°   | 320.4 | 320.8 | 321.2 | 321.6 | 322.0 | 322.2 | 322.2 | 322.2 | 322.2 | 322.2 | 322.1 |
| 152.5° | 331.0 | 331.4 | 331.7 | 332.1 | 332.4 | 332.5 | 332.4 | 332.2 | 332.1 | 332.0 | 331.9 |
| 155°   | 340.5 | 341.0 | 341.4 | 341.9 | 342.4 | 342.5 | 342.2 | 341.9 | 341.7 | 341.4 | 341.3 |
| 157.5° | 349.3 | 349.7 | 350.1 | 350.5 | 350.9 | 351.0 | 350.7 | 350.5 | 350.2 | 349.9 | 349.8 |
| 160°   | 357.8 | 358.1 | 358.4 | 358.6 | 358.9 | 358.9 | 358.5 | 358.2 | 357.9 | 357.5 | 357.5 |
| 162.5° | 364.2 | 364.7 | 365.2 | 365.6 | 366.1 | 366.2 | 365.8 | 365.5 | 365.2 | 364.8 | 364.8 |
| 165°   | 370.3 | 370.8 | 371.2 | 371.7 | 372.2 | 372.2 | 371.8 | 371.4 | 371.0 | 370.6 | 370.6 |
| 167.5° | 375.8 | 376.2 | 376.6 | 377.0 | 377.4 | 377.4 | 377.0 | 376.6 | 376.2 | 375.8 | 375.7 |
| 170°   | 379.7 | 380.2 | 380.7 | 381.1 | 381.6 | 381.6 | 381.1 | 380.7 | 380.2 | 379.7 | 379.7 |
| 172.5° | 382.8 | 383.2 | 383.7 | 384.2 | 384.7 | 384.7 | 384.3 | 383.9 | 383.5 | 383.1 | 383.1 |
| 175°   | 384.9 | 385.4 | 385.8 | 386.3 | 386.8 | 386.8 | 386.4 | 386.0 | 385.6 | 385.2 | 385.2 |
| 177.5° | 386.1 | 386.6 | 387.1 | 387.5 | 388.0 | 388.0 | 387.6 | 387.2 | 386.8 | 386.4 | 386.4 |
| 180°   | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 |



TEST NUMBER: P831118

CATALOG NUMBER: S123DIP-S1000D365U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 |
| 2.5°   | 2641.1 | 2634.3 | 2609.1 | 2583.8 | 2555.2 | 2526.6 | 2505.4 | 2484.2 | 2452.7 | 2421.1 | 2395.4 |
| 5°     | 2862.3 | 2830.2 | 2776.9 | 2723.6 | 2651.5 | 2579.3 | 2530.6 | 2481.9 | 2416.6 | 2351.2 | 2299.1 |
| 7.5°   | 3037.6 | 2982.6 | 2908.1 | 2833.6 | 2739.1 | 2644.6 | 2555.2 | 2465.8 | 2366.1 | 2266.5 | 2185.1 |
| 10°    | 3149.3 | 3112.1 | 3026.1 | 2940.2 | 2813.6 | 2687.0 | 2562.1 | 2437.2 | 2308.8 | 2180.5 | 2072.8 |
| 12.5°  | 3160.2 | 3163.6 | 3084.6 | 3005.5 | 2862.3 | 2719.1 | 2567.2 | 2415.4 | 2253.8 | 2092.3 | 1966.8 |
| 15°    | 3064.5 | 3123.5 | 3080.0 | 3036.5 | 2892.1 | 2747.7 | 2560.9 | 2374.2 | 2188.0 | 2001.8 | 1856.8 |
| 17.5°  | 2886.9 | 3013.5 | 3019.8 | 3026.1 | 2881.8 | 2737.4 | 2530.6 | 2323.7 | 2112.9 | 1902.1 | 1749.7 |
| 20°    | 2644.6 | 2831.3 | 2895.5 | 2959.7 | 2842.2 | 2724.8 | 2502.5 | 2280.2 | 2044.2 | 1808.1 | 1648.3 |
| 22.5°  | 2397.1 | 2624.0 | 2741.4 | 2858.8 | 2771.8 | 2684.7 | 2448.1 | 2211.5 | 1962.2 | 1713.0 | 1550.9 |
| 25°    | 2115.2 | 2362.7 | 2543.2 | 2723.6 | 2670.4 | 2617.1 | 2383.9 | 2150.7 | 1885.5 | 1620.2 | 1454.6 |
| 27.5°  | 1869.4 | 2120.9 | 2338.6 | 2556.3 | 2544.9 | 2533.4 | 2302.0 | 2070.5 | 1799.0 | 1527.4 | 1367.5 |
| 30°    | 1650.6 | 1884.9 | 2128.4 | 2371.9 | 2399.9 | 2428.0 | 2204.6 | 1981.1 | 1709.0 | 1436.9 | 1282.8 |
| 32.5°  | 1456.9 | 1661.5 | 1922.7 | 2184.0 | 2239.0 | 2294.0 | 2092.3 | 1890.6 | 1621.4 | 1352.1 | 1203.7 |
| 35°    | 1298.2 | 1483.9 | 1745.1 | 2006.3 | 2075.1 | 2143.8 | 1968.5 | 1793.2 | 1530.8 | 1268.4 | 1126.9 |
| 37.5°  | 1157.9 | 1313.1 | 1568.1 | 1823.0 | 1907.2 | 1991.5 | 1834.5 | 1677.5 | 1431.7 | 1185.9 | 1055.9 |
| 40°    | 1041.6 | 1166.5 | 1400.8 | 1635.1 | 1732.5 | 1829.9 | 1700.4 | 1570.9 | 1337.8 | 1104.6 | 984.8  |
| 42.5°  | 944.2  | 1055.3 | 1267.9 | 1480.4 | 1573.8 | 1667.2 | 1557.8 | 1448.3 | 1240.9 | 1033.5 | 924.1  |
| 45°    | 861.1  | 949.9  | 1143.0 | 1336.0 | 1424.8 | 1513.6 | 1419.7 | 1325.7 | 1143.0 | 960.2  | 858.2  |
| 47.5°  | 783.2  | 859.4  | 1024.4 | 1189.4 | 1268.4 | 1347.5 | 1274.2 | 1200.8 | 1046.1 | 891.5  | 799.2  |
| 50°    | 713.3  | 774.6  | 919.0  | 1063.3 | 1132.1 | 1200.8 | 1136.1 | 1071.4 | 944.2  | 817.0  | 736.8  |
| 52.5°  | 652.6  | 702.4  | 823.3  | 944.2  | 1003.2 | 1062.2 | 1006.6 | 951.0  | 850.2  | 749.4  | 679.5  |
| 55°    | 592.4  | 634.8  | 739.6  | 844.5  | 884.6  | 924.7  | 881.7  | 838.7  | 757.4  | 676.0  | 617.0  |
| 57.5°  | 536.2  | 574.1  | 660.0  | 745.9  | 776.9  | 807.8  | 768.9  | 729.9  | 668.6  | 607.3  | 558.0  |
| 60°    | 481.2  | 512.2  | 583.8  | 655.4  | 674.3  | 693.2  | 661.7  | 630.2  | 587.2  | 544.3  | 500.2  |
| 62.5°  | 430.3  | 458.3  | 511.6  | 564.9  | 577.5  | 590.1  | 566.0  | 542.0  | 509.3  | 476.7  | 442.3  |
| 65°    | 377.6  | 398.7  | 442.3  | 485.8  | 493.9  | 501.9  | 480.7  | 459.5  | 434.8  | 410.2  | 385.0  |
| 67.5°  | 328.9  | 343.7  | 379.3  | 414.8  | 415.4  | 415.9  | 398.7  | 381.6  | 367.8  | 354.1  | 334.0  |
| 70°    | 281.3  | 295.6  | 319.1  | 342.6  | 343.2  | 343.7  | 330.0  | 316.2  | 305.9  | 295.6  | 280.7  |
| 72.5°  | 232.6  | 242.9  | 260.7  | 278.4  | 277.3  | 276.1  | 267.6  | 259.0  | 250.9  | 242.9  | 232.0  |
| 75°    | 188.5  | 197.1  | 209.1  | 221.1  | 217.7  | 214.3  | 209.7  | 205.1  | 198.2  | 191.4  | 184.5  |
| 77.5°  | 148.4  | 153.5  | 160.4  | 167.3  | 165.0  | 162.7  | 158.7  | 154.7  | 149.5  | 144.4  | 141.5  |
| 80°    | 108.9  | 111.1  | 115.7  | 120.3  | 119.2  | 118.0  | 113.4  | 108.9  | 107.7  | 106.6  | 102.6  |
| 82.5°  | 73.9   | 76.8   | 77.9   | 79.1   | 78.5   | 77.9   | 74.5   | 71.0   | 69.9   | 68.7   | 68.2   |
| 85°    | 44.1   | 44.7   | 45.3   | 45.8   | 44.1   | 42.4   | 41.2   | 40.1   | 40.1   | 40.1   | 39.5   |
| 87.5°  | 20.1   | 20.6   | 20.6   | 20.6   | 20.1   | 19.5   | 18.3   | 17.2   | 17.8   | 18.3   | 18.3   |
| 90°    | 5.5    | 4.7    | 3.8    | 3.0    | 2.3    | 1.7    | 1.0    | 0.3    | 1.0    | 1.7    | 2.3    |
| 92.5°  | 12.0   | 11.6   | 11.2   | 10.8   | 10.3   | 9.9    | 9.5    | 9.1    | 9.5    | 9.9    | 10.3   |
| 95°    | 21.4   | 20.9   | 20.4   | 19.8   | 19.4   | 18.9   | 18.4   | 18.0   | 18.4   | 18.9   | 19.4   |
| 97.5°  | 32.0   | 31.6   | 31.2   | 30.9   | 30.5   | 30.2   | 29.9   | 29.5   | 29.9   | 30.2   | 30.5   |
| 100°   | 44.1   | 43.7   | 43.4   | 43.0   | 42.6   | 42.2   | 41.8   | 41.4   | 41.8   | 42.2   | 42.6   |
| 102.5° | 57.2   | 56.7   | 56.2   | 55.9   | 55.7   | 55.5   | 55.3   | 55.1   | 55.3   | 55.5   | 55.7   |
| 105°   | 70.6   | 70.0   | 69.4   | 69.0   | 68.9   | 68.7   | 68.6   | 68.5   | 68.6   | 68.7   | 68.9   |
| 107.5° | 85.3   | 85.0   | 84.7   | 84.6   | 84.5   | 84.4   | 84.4   | 84.3   | 84.4   | 84.4   | 84.5   |
| 110°   | 99.8   | 99.7   | 99.6   | 99.4   | 99.3   | 99.2   | 99.0   | 98.9   | 99.0   | 99.2   | 99.3   |





TEST NUMBER: P831118

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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 114.4 | 114.4 | 114.4 | 114.4 | 114.3 | 114.2 | 114.2 | 114.1 | 114.2 | 114.2 | 114.3 |
| 115°   | 129.9 | 130.0 | 130.2 | 130.1 | 129.9 | 129.7 | 129.5 | 129.3 | 129.5 | 129.7 | 129.9 |
| 117.5° | 144.8 | 144.9 | 145.1 | 145.1 | 145.0 | 145.0 | 144.9 | 144.8 | 144.9 | 145.0 | 145.0 |
| 120°   | 160.1 | 160.5 | 160.8 | 160.8 | 160.3 | 159.9 | 159.5 | 159.1 | 159.5 | 159.9 | 160.3 |
| 122.5° | 174.9 | 175.1 | 175.2 | 175.1 | 174.9 | 174.6 | 174.3 | 174.0 | 174.3 | 174.6 | 174.9 |
| 125°   | 189.8 | 190.0 | 190.1 | 190.1 | 189.9 | 189.7 | 189.5 | 189.3 | 189.5 | 189.7 | 189.9 |
| 127.5° | 204.7 | 204.9 | 205.0 | 204.9 | 204.5 | 204.1 | 203.7 | 203.3 | 203.7 | 204.1 | 204.5 |
| 130°   | 219.2 | 219.4 | 219.6 | 219.4 | 218.9 | 218.3 | 217.8 | 217.2 | 217.8 | 218.3 | 218.9 |
| 132.5° | 233.3 | 233.5 | 233.6 | 233.4 | 232.9 | 232.3 | 231.8 | 231.2 | 231.8 | 232.3 | 232.9 |
| 135°   | 247.2 | 247.3 | 247.3 | 247.2 | 246.8 | 246.4 | 246.0 | 245.5 | 246.0 | 246.4 | 246.8 |
| 137.5° | 260.7 | 260.5 | 260.3 | 260.0 | 259.6 | 259.3 | 259.0 | 258.6 | 259.0 | 259.3 | 259.6 |
| 140°   | 274.0 | 273.9 | 273.9 | 273.7 | 273.3 | 273.0 | 272.7 | 272.3 | 272.7 | 273.0 | 273.3 |
| 142.5° | 286.7 | 286.5 | 286.4 | 286.1 | 285.8 | 285.5 | 285.1 | 284.8 | 285.1 | 285.5 | 285.8 |
| 145°   | 299.0 | 298.8 | 298.6 | 298.4 | 298.3 | 298.1 | 298.0 | 297.9 | 298.0 | 298.1 | 298.3 |
| 147.5° | 310.9 | 310.7 | 310.5 | 310.2 | 309.9 | 309.7 | 309.4 | 309.1 | 309.4 | 309.7 | 309.9 |
| 150°   | 322.0 | 321.8 | 321.7 | 321.5 | 321.4 | 321.3 | 321.1 | 321.0 | 321.1 | 321.3 | 321.4 |
| 152.5° | 331.8 | 331.8 | 331.7 | 331.6 | 331.3 | 331.1 | 330.9 | 330.7 | 330.9 | 331.1 | 331.3 |
| 155°   | 341.3 | 341.2 | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 | 341.1 |
| 157.5° | 349.8 | 349.7 | 349.6 | 349.6 | 349.7 | 349.8 | 349.8 | 349.9 | 349.8 | 349.8 | 349.7 |
| 160°   | 357.5 | 357.5 | 357.5 | 357.6 | 357.7 | 357.9 | 358.0 | 358.1 | 358.0 | 357.9 | 357.7 |
| 162.5° | 364.7 | 364.6 | 364.5 | 364.6 | 364.8 | 365.0 | 365.2 | 365.4 | 365.2 | 365.0 | 364.8 |
| 165°   | 370.6 | 370.6 | 370.6 | 370.7 | 370.9 | 371.1 | 371.3 | 371.5 | 371.3 | 371.1 | 370.9 |
| 167.5° | 375.6 | 375.6 | 375.5 | 375.6 | 375.9 | 376.1 | 376.4 | 376.7 | 376.4 | 376.1 | 375.9 |
| 170°   | 379.7 | 379.7 | 379.7 | 379.9 | 380.1 | 380.4 | 380.7 | 380.9 | 380.7 | 380.4 | 380.1 |
| 172.5° | 383.1 | 383.1 | 383.1 | 383.2 | 383.5 | 383.8 | 384.0 | 384.3 | 384.0 | 383.8 | 383.5 |
| 175°   | 385.2 | 385.2 | 385.2 | 385.3 | 385.6 | 385.9 | 386.2 | 386.4 | 386.2 | 385.9 | 385.6 |
| 177.5° | 386.4 | 386.4 | 386.4 | 386.6 | 386.8 | 387.1 | 387.4 | 387.6 | 387.4 | 387.1 | 386.8 |
| 180°   | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 | 2469.3 |
| 2.5°   | 2369.6 | 2347.2 | 2324.9 | 2307.7 | 2290.5 | 2261.3 | 2232.1 | 2225.2 | 2218.3 | 2208.6 | 2198.8 |
| 5°     | 2247.0 | 2192.0 | 2137.0 | 2087.7 | 2038.4 | 2000.0 | 1961.7 | 1936.5 | 1911.2 | 1892.9 | 1874.6 |
| 7.5°   | 2103.7 | 2021.2 | 1938.7 | 1880.3 | 1821.9 | 1766.3 | 1710.7 | 1693.0 | 1675.2 | 1651.1 | 1627.1 |
| 10°    | 1965.1 | 1874.0 | 1782.9 | 1706.7 | 1630.5 | 1576.1 | 1521.7 | 1499.9 | 1478.1 | 1447.8 | 1417.4 |
| 12.5°  | 1841.4 | 1741.7 | 1642.0 | 1565.2 | 1488.4 | 1435.7 | 1383.0 | 1351.5 | 1320.0 | 1302.8 | 1285.6 |
| 15°    | 1711.9 | 1605.3 | 1498.7 | 1427.7 | 1356.7 | 1309.1 | 1261.6 | 1234.1 | 1206.6 | 1189.9 | 1173.3 |
| 17.5°  | 1597.3 | 1491.9 | 1386.5 | 1318.3 | 1250.1 | 1206.6 | 1163.0 | 1139.0 | 1114.9 | 1102.3 | 1089.7 |
| 20°    | 1488.4 | 1385.3 | 1282.2 | 1215.7 | 1149.3 | 1113.7 | 1078.2 | 1062.8 | 1047.3 | 1037.0 | 1026.7 |
| 22.5°  | 1388.7 | 1287.3 | 1185.9 | 1129.2 | 1072.5 | 1043.9 | 1015.2 | 1004.3 | 993.4  | 984.8  | 976.2  |
| 25°    | 1289.1 | 1198.5 | 1108.0 | 1059.9 | 1011.8 | 988.3  | 964.8  | 953.9  | 943.0  | 934.4  | 925.8  |
| 27.5°  | 1207.7 | 1121.2 | 1034.7 | 993.4  | 952.2  | 933.9  | 915.5  | 906.9  | 898.3  | 890.3  | 882.3  |
| 30°    | 1128.6 | 1051.3 | 974.0  | 938.4  | 902.9  | 886.3  | 869.7  | 861.1  | 852.5  | 845.1  | 837.6  |
| 32.5°  | 1055.3 | 988.9  | 922.4  | 889.7  | 857.1  | 843.3  | 829.6  | 819.3  | 809.0  | 803.2  | 797.5  |
| 35°    | 985.4  | 925.8  | 866.2  | 839.3  | 812.4  | 798.6  | 784.9  | 776.3  | 767.7  | 763.1  | 758.5  |
| 37.5°  | 925.8  | 872.6  | 819.3  | 793.5  | 767.7  | 754.5  | 741.4  | 733.9  | 726.5  | 724.7  | 723.0  |
| 40°    | 865.1  | 819.3  | 773.4  | 748.2  | 723.0  | 711.6  | 700.1  | 695.5  | 690.9  | 689.8  | 688.6  |
| 42.5°  | 814.7  | 770.0  | 725.3  | 702.4  | 679.5  | 669.7  | 660.0  | 657.7  | 655.4  | 657.1  | 658.9  |
| 45°    | 756.2  | 719.0  | 681.8  | 660.6  | 639.4  | 631.4  | 623.3  | 621.6  | 619.9  | 623.3  | 626.8  |
| 47.5°  | 707.0  | 672.6  | 638.2  | 618.2  | 598.1  | 592.4  | 586.7  | 586.1  | 585.5  | 590.1  | 594.7  |
| 50°    | 656.6  | 623.3  | 590.1  | 574.1  | 558.0  | 552.9  | 547.7  | 549.4  | 551.1  | 558.6  | 566.0  |
| 52.5°  | 609.6  | 578.6  | 547.7  | 532.8  | 517.9  | 514.5  | 511.0  | 515.1  | 519.1  | 527.1  | 535.1  |
| 55°    | 558.0  | 529.9  | 501.9  | 490.4  | 479.0  | 475.5  | 472.1  | 480.1  | 488.1  | 495.6  | 503.0  |
| 57.5°  | 508.7  | 484.1  | 459.5  | 449.2  | 438.9  | 438.3  | 437.7  | 445.2  | 452.6  | 460.6  | 468.6  |
| 60°    | 456.0  | 435.4  | 414.8  | 406.8  | 398.7  | 399.9  | 401.0  | 409.6  | 418.2  | 424.5  | 430.8  |
| 62.5°  | 407.9  | 390.7  | 373.5  | 366.1  | 358.6  | 361.5  | 364.4  | 373.0  | 381.6  | 389.0  | 396.5  |
| 65°    | 359.8  | 345.5  | 331.1  | 326.0  | 320.8  | 324.8  | 328.9  | 336.3  | 343.7  | 348.9  | 354.1  |
| 67.5°  | 314.0  | 301.9  | 289.9  | 285.9  | 281.9  | 285.9  | 289.9  | 297.3  | 304.8  | 309.9  | 315.1  |
| 70°    | 265.8  | 256.1  | 246.4  | 243.5  | 240.6  | 245.2  | 249.8  | 256.1  | 262.4  | 267.6  | 272.7  |
| 72.5°  | 221.1  | 213.7  | 206.2  | 205.7  | 205.1  | 209.1  | 213.1  | 219.4  | 225.7  | 229.2  | 232.6  |
| 75°    | 177.6  | 173.6  | 169.6  | 169.0  | 168.4  | 172.4  | 176.5  | 179.9  | 183.3  | 186.2  | 189.1  |
| 77.5°  | 138.6  | 135.2  | 131.8  | 132.3  | 132.9  | 135.8  | 138.6  | 142.1  | 145.5  | 147.2  | 149.0  |
| 80°    | 98.5   | 97.4   | 96.2   | 97.4   | 98.5   | 100.8  | 103.1  | 105.4  | 107.7  | 108.9  | 110.0  |
| 82.5°  | 67.6   | 66.5   | 65.3   | 67.0   | 68.7   | 70.5   | 72.2   | 73.9   | 75.6   | 76.2   | 76.8   |
| 85°    | 39.0   | 40.7   | 42.4   | 42.4   | 42.4   | 43.0   | 43.5   | 44.1   | 44.7   | 44.1   | 43.5   |
| 87.5°  | 18.3   | 18.9   | 19.5   | 19.5   | 19.5   | 20.1   | 20.6   | 20.6   | 20.6   | 20.1   | 19.5   |
| 90°    | 3.0    | 3.8    | 4.7    | 5.5    | 6.4    | 7.3    | 7.6    | 7.8    | 8.1    | 8.4    | 8.6    |
| 92.5°  | 10.8   | 11.2   | 11.6   | 12.0   | 12.4   | 12.8   | 13.0   | 13.2   | 13.4   | 13.6   | 13.6   |
| 95°    | 19.8   | 20.4   | 20.9   | 21.4   | 22.0   | 22.5   | 22.8   | 23.1   | 23.3   | 23.6   | 23.7   |
| 97.5°  | 30.9   | 31.2   | 31.6   | 32.0   | 32.5   | 32.9   | 33.2   | 33.5   | 33.9   | 34.2   | 34.3   |
| 100°   | 43.0   | 43.4   | 43.7   | 44.1   | 44.4   | 44.7   | 44.9   | 45.1   | 45.3   | 45.5   | 45.7   |
| 102.5° | 55.9   | 56.2   | 56.7   | 57.2   | 57.6   | 58.1   | 58.3   | 58.5   | 58.7   | 58.9   | 59.0   |
| 105°   | 69.0   | 69.4   | 70.0   | 70.6   | 71.2   | 71.8   | 71.8   | 71.8   | 71.8   | 71.8   | 71.9   |
| 107.5° | 84.6   | 84.7   | 85.0   | 85.3   | 85.5   | 85.8   | 86.0   | 86.2   | 86.4   | 86.6   | 86.7   |
| 110°   | 99.4   | 99.6   | 99.7   | 99.8   | 100.0  | 100.1  | 100.4  | 100.6  | 100.9  | 101.2  | 101.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.4 | 114.7 | 115.1 | 115.4 | 115.8 | 115.9 |
| 115°   | 130.1 | 130.2 | 130.0 | 129.9 | 129.8 | 129.6 | 129.7 | 129.8 | 129.8 | 129.9 | 129.9 |
| 117.5° | 145.1 | 145.1 | 144.9 | 144.8 | 144.7 | 144.5 | 144.5 | 144.5 | 144.5 | 144.5 | 144.4 |
| 120°   | 160.8 | 160.8 | 160.5 | 160.1 | 159.8 | 159.4 | 159.4 | 159.3 | 159.2 | 159.2 | 159.1 |
| 122.5° | 175.1 | 175.2 | 175.1 | 174.9 | 174.8 | 174.7 | 174.4 | 174.2 | 174.0 | 173.8 | 173.6 |
| 125°   | 190.1 | 190.1 | 190.0 | 189.8 | 189.7 | 189.6 | 189.3 | 189.0 | 188.7 | 188.5 | 188.2 |
| 127.5° | 204.9 | 205.0 | 204.9 | 204.7 | 204.6 | 204.5 | 204.1 | 203.7 | 203.3 | 202.8 | 202.5 |
| 130°   | 219.4 | 219.6 | 219.4 | 219.2 | 219.0 | 218.8 | 218.5 | 218.2 | 218.0 | 217.7 | 217.3 |
| 132.5° | 233.4 | 233.6 | 233.5 | 233.3 | 233.2 | 233.1 | 232.7 | 232.4 | 232.1 | 231.7 | 231.4 |
| 135°   | 247.2 | 247.3 | 247.3 | 247.2 | 247.1 | 247.1 | 246.8 | 246.5 | 246.3 | 246.0 | 245.8 |
| 137.5° | 260.0 | 260.3 | 260.5 | 260.7 | 260.9 | 261.1 | 260.7 | 260.4 | 260.0 | 259.7 | 259.4 |
| 140°   | 273.7 | 273.9 | 273.9 | 274.0 | 274.1 | 274.1 | 274.1 | 274.0 | 273.9 | 273.9 | 273.6 |
| 142.5° | 286.1 | 286.4 | 286.5 | 286.7 | 286.8 | 286.9 | 286.9 | 286.8 | 286.7 | 286.7 | 286.5 |
| 145°   | 298.4 | 298.6 | 298.8 | 299.0 | 299.2 | 299.4 | 299.3 | 299.3 | 299.2 | 299.1 | 299.0 |
| 147.5° | 310.2 | 310.5 | 310.7 | 310.9 | 311.1 | 311.3 | 311.3 | 311.3 | 311.3 | 311.3 | 311.1 |
| 150°   | 321.5 | 321.7 | 321.8 | 322.0 | 322.1 | 322.2 | 322.2 | 322.2 | 322.2 | 322.2 | 322.0 |
| 152.5° | 331.6 | 331.7 | 331.8 | 331.8 | 331.9 | 332.0 | 332.1 | 332.2 | 332.4 | 332.5 | 332.4 |
| 155°   | 341.1 | 341.1 | 341.2 | 341.3 | 341.3 | 341.4 | 341.7 | 341.9 | 342.2 | 342.5 | 342.4 |
| 157.5° | 349.6 | 349.6 | 349.7 | 349.8 | 349.8 | 349.9 | 350.2 | 350.5 | 350.7 | 351.0 | 350.9 |
| 160°   | 357.6 | 357.5 | 357.5 | 357.5 | 357.5 | 357.5 | 357.9 | 358.2 | 358.5 | 358.9 | 358.9 |
| 162.5° | 364.6 | 364.5 | 364.6 | 364.7 | 364.8 | 364.8 | 365.2 | 365.5 | 365.8 | 366.2 | 366.1 |
| 165°   | 370.7 | 370.6 | 370.6 | 370.6 | 370.6 | 370.6 | 371.0 | 371.4 | 371.8 | 372.2 | 372.2 |
| 167.5° | 375.6 | 375.5 | 375.6 | 375.6 | 375.7 | 375.8 | 376.2 | 376.6 | 377.0 | 377.4 | 377.4 |
| 170°   | 379.9 | 379.7 | 379.7 | 379.7 | 379.7 | 379.7 | 380.2 | 380.7 | 381.1 | 381.6 | 381.6 |
| 172.5° | 383.2 | 383.1 | 383.1 | 383.1 | 383.1 | 383.1 | 383.5 | 383.9 | 384.3 | 384.7 | 384.7 |
| 175°   | 385.3 | 385.2 | 385.2 | 385.2 | 385.2 | 385.2 | 385.6 | 386.0 | 386.4 | 386.8 | 386.8 |
| 177.5° | 386.6 | 386.4 | 386.4 | 386.4 | 386.4 | 386.4 | 386.8 | 387.2 | 387.6 | 388.0 | 388.0 |
| 180°   | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 | 387.3 |



TEST NUMBER: P831118

CATALOG NUMBER: S123DIP-S1000D365U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 2469.3 | 2469.3 | 2469.3 | 2469.3 |
| 2.5°   | 2194.8 | 2190.8 | 2174.8 | 2158.7 |
| 5°     | 1860.8 | 1847.1 | 1842.5 | 1837.9 |
| 7.5°   | 1625.9 | 1624.8 | 1600.7 | 1576.7 |
| 10°    | 1419.1 | 1420.8 | 1399.1 | 1377.3 |
| 12.5°  | 1271.3 | 1257.0 | 1255.3 | 1253.5 |
| 15°    | 1160.2 | 1147.0 | 1144.7 | 1142.4 |
| 17.5°  | 1081.7 | 1073.6 | 1071.4 | 1069.1 |
| 20°    | 1022.1 | 1017.5 | 1013.5 | 1009.5 |
| 22.5°  | 970.5  | 964.8  | 961.4  | 957.9  |
| 25°    | 920.7  | 915.5  | 914.4  | 913.2  |
| 27.5°  | 876.0  | 869.7  | 869.7  | 869.7  |
| 30°    | 833.6  | 829.6  | 827.9  | 826.1  |
| 32.5°  | 794.1  | 790.6  | 790.6  | 790.6  |
| 35°    | 756.8  | 755.1  | 752.8  | 750.5  |
| 37.5°  | 723.0  | 723.0  | 721.9  | 720.7  |
| 40°    | 690.4  | 692.1  | 692.1  | 692.1  |
| 42.5°  | 660.6  | 662.3  | 662.3  | 662.3  |
| 45°    | 629.6  | 632.5  | 633.6  | 634.8  |
| 47.5°  | 599.3  | 603.9  | 605.0  | 606.1  |
| 50°    | 569.5  | 572.9  | 573.5  | 574.1  |
| 52.5°  | 539.1  | 543.1  | 546.0  | 548.9  |
| 55°    | 507.0  | 511.0  | 512.8  | 514.5  |
| 57.5°  | 472.7  | 476.7  | 477.2  | 477.8  |
| 60°    | 434.8  | 438.9  | 440.0  | 441.1  |
| 62.5°  | 398.7  | 401.0  | 402.2  | 403.3  |
| 65°    | 357.5  | 360.9  | 363.2  | 365.5  |
| 67.5°  | 318.0  | 320.8  | 320.8  | 320.8  |
| 70°    | 273.9  | 275.0  | 276.7  | 278.4  |
| 72.5°  | 233.2  | 233.7  | 233.7  | 233.7  |
| 75°    | 190.2  | 191.4  | 191.9  | 192.5  |
| 77.5°  | 149.5  | 150.1  | 150.1  | 150.1  |
| 80°    | 109.4  | 108.9  | 108.9  | 108.9  |
| 82.5°  | 75.1   | 73.3   | 73.3   | 73.3   |
| 85°    | 43.0   | 42.4   | 43.0   | 43.5   |
| 87.5°  | 19.5   | 19.5   | 19.5   | 19.5   |
| 90°    | 8.7    | 8.9    | 9.0    | 9.1    |
| 92.5°  | 13.5   | 13.4   | 13.2   | 13.1   |
| 95°    | 23.7   | 23.7   | 23.7   | 23.7   |
| 97.5°  | 34.3   | 34.2   | 34.1   | 34.1   |
| 100°   | 45.8   | 46.0   | 46.1   | 46.2   |
| 102.5° | 58.9   | 58.9   | 58.8   | 58.7   |
| 105°   | 72.0   | 72.1   | 72.3   | 72.4   |
| 107.5° | 86.6   | 86.5   | 86.5   | 86.4   |
| 110°   | 101.1  | 101.0  | 100.8  | 100.7  |



TEST NUMBER: P831118

CATALOG NUMBER: S123DIP-S1000D365U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 115.9 | 115.9 | 115.9 | 115.9 |
| 115°   | 129.8 | 129.8 | 129.7 | 129.6 |
| 117.5° | 144.2 | 144.0 | 143.8 | 143.6 |
| 120°   | 158.9 | 158.8 | 158.7 | 158.5 |
| 122.5° | 173.4 | 173.2 | 173.0 | 172.8 |
| 125°   | 187.9 | 187.7 | 187.4 | 187.1 |
| 127.5° | 202.2 | 202.0 | 201.7 | 201.4 |
| 130°   | 216.8 | 216.4 | 215.9 | 215.4 |
| 132.5° | 231.0 | 230.7 | 230.4 | 230.0 |
| 135°   | 245.6 | 245.5 | 245.4 | 245.2 |
| 137.5° | 259.2 | 259.0 | 258.8 | 258.6 |
| 140°   | 273.1 | 272.7 | 272.2 | 271.7 |
| 142.5° | 286.1 | 285.8 | 285.4 | 285.1 |
| 145°   | 298.7 | 298.4 | 298.1 | 297.9 |
| 147.5° | 310.7 | 310.3 | 309.8 | 309.4 |
| 150°   | 321.6 | 321.2 | 320.8 | 320.4 |
| 152.5° | 332.1 | 331.7 | 331.4 | 331.0 |
| 155°   | 341.9 | 341.4 | 341.0 | 340.5 |
| 157.5° | 350.5 | 350.1 | 349.7 | 349.3 |
| 160°   | 358.6 | 358.4 | 358.1 | 357.8 |
| 162.5° | 365.6 | 365.2 | 364.7 | 364.2 |
| 165°   | 371.7 | 371.2 | 370.8 | 370.3 |
| 167.5° | 377.0 | 376.6 | 376.2 | 375.8 |
| 170°   | 381.1 | 380.7 | 380.2 | 379.7 |
| 172.5° | 384.2 | 383.7 | 383.2 | 382.8 |
| 175°   | 386.3 | 385.8 | 385.4 | 384.9 |
| 177.5° | 387.5 | 387.1 | 386.6 | 386.1 |
| 180°   | 387.3 | 387.3 | 387.3 | 387.3 |



TEST NUMBER: P831118

CATALOG NUMBER: S123DIP-S1000D365U935-4F0-1E-UDD-G1

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 17.33            | 18.45 | 18.00 | 19.14 | 19.93 | 19.56          | 20.69 | 20.23 | 21.37 | 22.17 |
|                 | 3H   | 18.99            | 20.00 | 19.68 | 20.70 | 21.52 | 21.01          | 22.02 | 21.69 | 22.71 | 23.54 |
|                 | 4H   | 19.58            | 20.53 | 20.29 | 21.24 | 22.08 | 21.47          | 22.42 | 22.17 | 23.12 | 23.97 |
|                 | 6H   | 19.96            | 20.84 | 20.68 | 21.56 | 22.41 | 21.76          | 22.63 | 22.47 | 23.35 | 24.20 |
|                 | 8H   | 20.07            | 20.90 | 20.80 | 21.64 | 22.50 | 21.83          | 22.66 | 22.55 | 23.39 | 24.25 |
|                 | 12H  | 20.12            | 20.92 | 20.86 | 21.65 | 22.53 | 21.85          | 22.65 | 22.59 | 23.38 | 24.26 |
| 4H              | 2H   | 17.93            | 18.88 | 18.64 | 19.59 | 20.43 | 19.76          | 20.71 | 20.46 | 21.41 | 22.25 |
|                 | 3H   | 19.78            | 20.57 | 20.50 | 21.32 | 22.18 | 21.40          | 22.19 | 22.12 | 22.93 | 23.79 |
|                 | 4H   | 20.49            | 21.21 | 21.23 | 21.95 | 22.84 | 21.99          | 22.71 | 22.73 | 23.45 | 24.34 |
|                 | 6H   | 20.98            | 21.60 | 21.73 | 22.37 | 23.27 | 22.41          | 23.03 | 23.16 | 23.80 | 24.70 |
|                 | 8H   | 21.12            | 21.70 | 21.88 | 22.47 | 23.38 | 22.53          | 23.11 | 23.29 | 23.87 | 24.78 |
|                 | 12H  | 21.20            | 21.72 | 21.98 | 22.51 | 23.42 | 22.58          | 23.10 | 23.36 | 23.89 | 24.81 |
| 8H              | 4H   | 20.78            | 21.36 | 21.53 | 22.12 | 23.03 | 22.12          | 22.70 | 22.87 | 23.46 | 24.37 |
|                 | 6H   | 21.37            | 21.85 | 22.16 | 22.66 | 23.57 | 22.63          | 23.11 | 23.42 | 23.91 | 24.83 |
|                 | 8H   | 21.58            | 22.01 | 22.38 | 22.82 | 23.74 | 22.81          | 23.23 | 23.61 | 24.04 | 24.97 |
|                 | 12H  | 21.72            | 22.09 | 22.52 | 22.89 | 23.88 | 22.92          | 23.30 | 23.72 | 24.09 | 25.08 |
| 12H             | 4H   | 20.79            | 21.31 | 21.57 | 22.10 | 23.01 | 22.10          | 22.62 | 22.88 | 23.41 | 24.33 |
|                 | 6H   | 21.43            | 21.85 | 22.23 | 22.66 | 23.59 | 22.64          | 23.07 | 23.44 | 23.88 | 24.80 |
|                 | 8H   | 21.67            | 22.05 | 22.47 | 22.84 | 23.83 | 22.86          | 23.23 | 23.66 | 24.03 | 25.01 |