

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: P831295

Luminaire Tested: S123DIP-S1165D805U840-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831295  
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-S1165D805U840-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

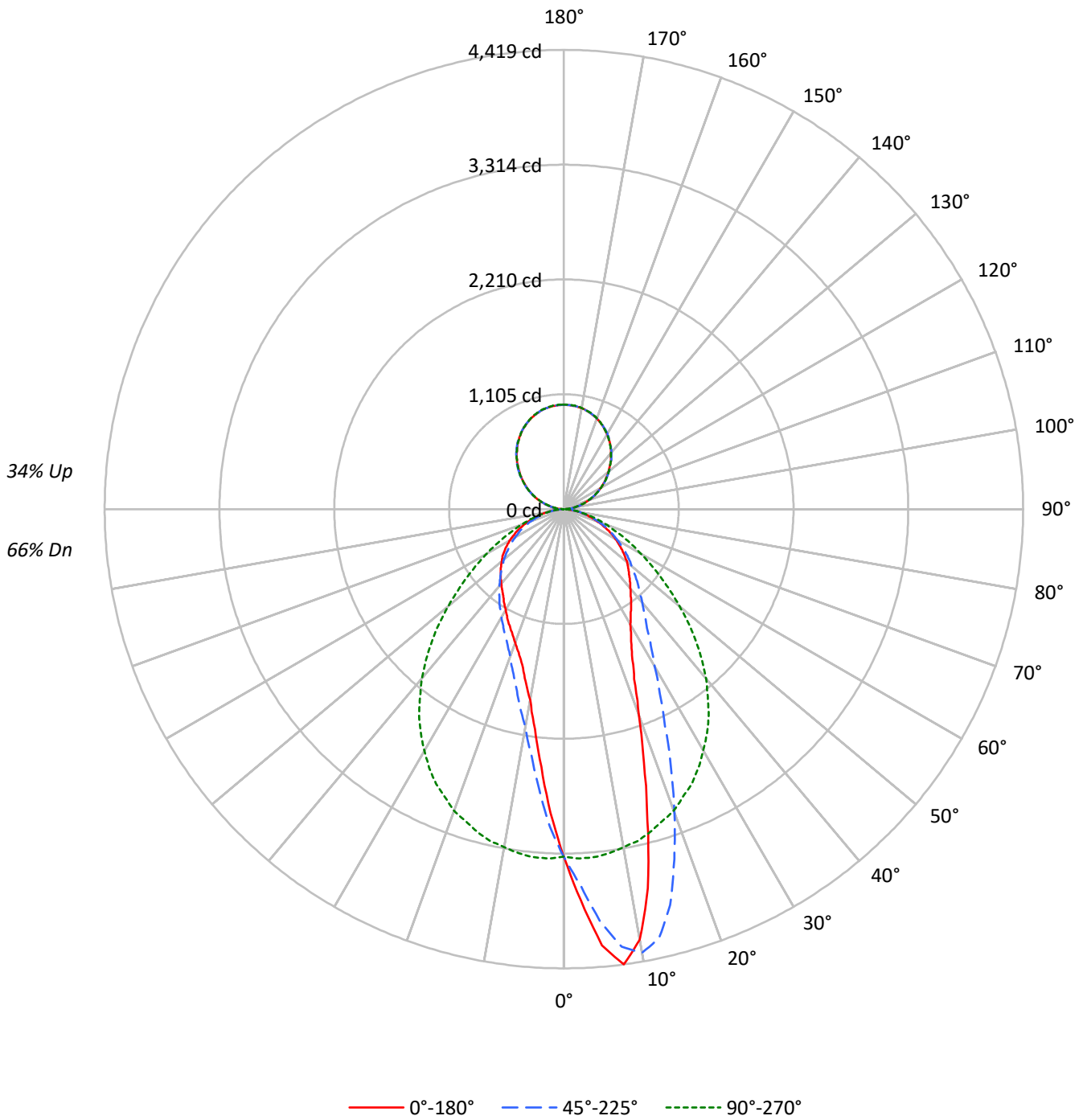
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8164.1 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 62.8  
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: P831295

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### Luminous Intensity Polar Plot





TEST NUMBER: P831295

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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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 | 66 |    |    |    |   |
| 1   | 102 | 98  | 94  | 91  | 96  | 92  | 89  | 86  | 82 | 79 | 77 | 72 | 71 | 69 | 64 | 62 | 61 | 57 |    |    |    |   |
| 2   | 94  | 86  | 80  | 75  | 88  | 82  | 76  | 72  | 73 | 69 | 65 | 64 | 61 | 59 | 57 | 55 | 53 | 49 |    |    |    |   |
| 3   | 86  | 77  | 70  | 64  | 81  | 73  | 66  | 61  | 65 | 60 | 56 | 58 | 54 | 51 | 51 | 48 | 46 | 42 |    |    |    |   |
| 4   | 79  | 69  | 61  | 55  | 74  | 65  | 58  | 53  | 58 | 53 | 48 | 52 | 48 | 44 | 46 | 43 | 40 | 37 |    |    |    |   |
| 5   | 73  | 62  | 54  | 48  | 69  | 59  | 51  | 46  | 53 | 47 | 43 | 47 | 43 | 39 | 42 | 39 | 36 | 33 |    |    |    |   |
| 6   | 68  | 56  | 48  | 42  | 64  | 53  | 46  | 41  | 48 | 42 | 38 | 43 | 39 | 35 | 39 | 35 | 32 | 29 |    |    |    |   |
| 7   | 63  | 51  | 43  | 38  | 59  | 49  | 41  | 36  | 44 | 38 | 34 | 40 | 35 | 31 | 36 | 32 | 29 | 27 |    |    |    |   |
| 8   | 59  | 47  | 39  | 34  | 55  | 45  | 38  | 33  | 41 | 35 | 31 | 37 | 32 | 28 | 33 | 29 | 26 | 24 |    |    |    |   |
| 9   | 55  | 43  | 36  | 31  | 52  | 41  | 34  | 30  | 38 | 32 | 28 | 34 | 29 | 26 | 31 | 27 | 24 | 22 |    |    |    |   |
| 10  | 52  | 40  | 33  | 28  | 49  | 38  | 32  | 27  | 35 | 29 | 25 | 32 | 27 | 24 | 29 | 25 | 22 | 20 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 36004 | 36004 | 36004 | 36004 | 36004 |
| 5°  | 45533 | 42976 | 36327 | 29274 | 26901 |
| 10° | 45976 | 47367 | 36085 | 23335 | 20392 |
| 15° | 34628 | 43977 | 35839 | 19762 | 17245 |
| 20° | 24127 | 35586 | 35381 | 17282 | 15664 |
| 25° | 18398 | 27366 | 34601 | 15899 | 14693 |
| 30° | 15915 | 21742 | 33356 | 14922 | 13909 |
| 35° | 14767 | 18357 | 31919 | 14217 | 13360 |
| 40° | 13980 | 16467 | 29901 | 13544 | 13173 |
| 45° | 13515 | 15239 | 27338 | 13018 | 13090 |
| 50° | 13283 | 14269 | 24303 | 12541 | 13021 |
| 55° | 12787 | 13559 | 21322 | 12087 | 13078 |
| 60° | 12329 | 12798 | 18378 | 11662 | 12865 |
| 65° | 11584 | 12078 | 15852 | 11207 | 12610 |
| 70° | 10697 | 11163 | 13482 | 10455 | 11871 |
| 75° | 9682  | 10006 | 11553 | 9715  | 10846 |
| 80° | 7984  | 8753  | 9143  | 8467  | 9143  |
| 85° | 6323  | 7089  | 6706  | 7188  | 7287  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 31212 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 316.2  | 3.9       |
| 10°-20°   | 786.7  | 9.6       |
| 20°-30°   | 931.5  | 11.4      |
| 30°-40°   | 936.6  | 11.5      |
| 40°-50°   | 859.3  | 10.5      |
| 50°-60°   | 709.2  | 8.7       |
| 60°-70°   | 501.7  | 6.1       |
| 70°-80°   | 267.8  | 3.3       |
| 80°-90°   | 70.1   | 0.9       |
| 90°-100°  | 64.7   | 0.8       |
| 100°-110° | 195.8  | 2.4       |
| 110°-120° | 333.4  | 4.1       |
| 120°-130° | 438.6  | 5.4       |
| 130°-140° | 493.0  | 6.0       |
| 140°-150° | 484.7  | 5.9       |
| 150°-160° | 408.0  | 5.0       |
| 160°-170° | 271.6  | 3.3       |
| 170°-180° | 95.1   | 1.2       |
| 0°-30°    | 2034.4 | 24.9      |
| 0°-40°    | 2971.0 | 36.4      |
| 0°-60°    | 4539.6 | 55.6      |
| 0°-90°    | 5379.2 | 65.9      |
| 90°-120°  | 593.9  | 7.3       |
| 90°-150°  | 2010.1 | 24.6      |
| 90°-180°  | 2785.0 | 34.1      |
| 0°-180°   | 8164.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3345 | 3345 | 3345 | 3345 | 3345 |      |
| 5°   | 4214 | 3977 | 3362 | 2709 | 2490 | 402  |
| 15°  | 3107 | 3946 | 3216 | 1773 | 1548 | 858  |
| 25°  | 1549 | 2304 | 2913 | 1339 | 1237 | 731  |
| 35°  | 1124 | 1397 | 2429 | 1082 | 1017 | 706  |
| 45°  | 888  | 1001 | 1796 | 855  | 860  | 688  |
| 55°  | 681  | 722  | 1136 | 644  | 697  | 610  |
| 65°  | 455  | 474  | 622  | 440  | 495  | 452  |
| 75°  | 233  | 241  | 278  | 234  | 261  | 245  |
| 85°  | 51   | 57   | 54   | 58   | 59   | 57   |
| 90°  | 24   | 19   | 1    | 19   | 24   | 15   |
| 95°  | 62   | 58   | 47   | 58   | 62   | 62   |
| 105° | 188  | 186  | 178  | 186  | 188  | 199  |
| 115° | 336  | 336  | 336  | 336  | 336  | 333  |
| 125° | 486  | 492  | 491  | 492  | 486  | 434  |
| 135° | 636  | 641  | 637  | 641  | 636  | 490  |
| 145° | 773  | 777  | 773  | 777  | 773  | 483  |
| 155° | 884  | 886  | 885  | 886  | 884  | 407  |
| 165° | 961  | 962  | 964  | 962  | 961  | 271  |
| 175° | 999  | 1000 | 1003 | 1000 | 999  | 95   |
| 180° | 1005 | 1005 | 1005 | 1005 | 1005 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 |
| 2.5°   | 3770.2 | 3766.3 | 3762.5 | 3743.1 | 3723.6 | 3714.3 | 3705.0 | 3677.1 | 3649.1 | 3618.1 | 3587.1 |
| 5°     | 4214.1 | 4225.0 | 4235.9 | 4223.4 | 4211.0 | 4173.0 | 4135.0 | 4084.5 | 4034.1 | 3977.4 | 3920.8 |
| 7.5°   | 4419.0 | 4425.2 | 4431.4 | 4423.7 | 4415.9 | 4405.8 | 4395.7 | 4350.7 | 4305.7 | 4247.5 | 4189.3 |
| 10°    | 4206.4 | 4220.3 | 4234.3 | 4264.6 | 4294.8 | 4329.0 | 4363.1 | 4356.9 | 4350.7 | 4333.7 | 4316.6 |
| 12.5°  | 3739.2 | 3756.2 | 3773.3 | 3833.9 | 3894.4 | 3972.0 | 4049.6 | 4116.3 | 4183.1 | 4229.7 | 4276.2 |
| 15°    | 3107.4 | 3154.8 | 3202.1 | 3257.2 | 3312.3 | 3426.4 | 3540.5 | 3681.0 | 3821.4 | 3946.4 | 4071.3 |
| 17.5°  | 2559.5 | 2577.4 | 2595.2 | 2654.2 | 2713.2 | 2856.8 | 3000.3 | 3162.5 | 3324.7 | 3532.0 | 3739.2 |
| 20°    | 2106.3 | 2122.6 | 2138.9 | 2216.5 | 2294.1 | 2406.6 | 2519.2 | 2701.5 | 2883.9 | 3106.7 | 3329.4 |
| 22.5°  | 1769.5 | 1795.1 | 1820.7 | 1864.2 | 1907.6 | 2015.5 | 2123.4 | 2285.6 | 2447.8 | 2693.8 | 2939.8 |
| 25°    | 1549.1 | 1567.7 | 1586.3 | 1612.7 | 1639.1 | 1725.2 | 1811.4 | 1944.9 | 2078.4 | 2304.2 | 2530.0 |
| 27.5°  | 1398.5 | 1406.3 | 1414.0 | 1440.4 | 1466.8 | 1522.7 | 1578.6 | 1693.4 | 1808.3 | 2000.0 | 2191.7 |
| 30°    | 1280.5 | 1286.0 | 1291.4 | 1314.7 | 1338.0 | 1376.0 | 1414.0 | 1497.1 | 1580.1 | 1749.3 | 1918.5 |
| 32.5°  | 1198.3 | 1202.2 | 1206.0 | 1223.9 | 1241.7 | 1268.9 | 1296.1 | 1356.6 | 1417.1 | 1556.8 | 1696.5 |
| 35°    | 1123.8 | 1126.1 | 1128.4 | 1141.6 | 1154.8 | 1175.0 | 1195.2 | 1241.0 | 1286.7 | 1397.0 | 1507.2 |
| 37.5°  | 1058.6 | 1061.7 | 1064.8 | 1072.5 | 1080.3 | 1098.2 | 1116.0 | 1152.5 | 1189.0 | 1273.6 | 1358.1 |
| 40°    | 994.9  | 1000.4 | 1005.8 | 1011.2 | 1016.7 | 1031.4 | 1046.2 | 1074.1 | 1102.0 | 1171.9 | 1241.7 |
| 42.5°  | 940.6  | 946.0  | 951.5  | 953.8  | 956.1  | 964.7  | 973.2  | 998.8  | 1024.4 | 1076.4 | 1128.4 |
| 45°    | 887.8  | 890.2  | 892.5  | 894.8  | 897.2  | 904.1  | 911.1  | 933.6  | 956.1  | 1001.1 | 1046.2 |
| 47.5°  | 839.7  | 839.7  | 839.7  | 841.3  | 842.8  | 849.0  | 855.2  | 871.5  | 887.8  | 922.8  | 957.7  |
| 50°    | 793.2  | 793.2  | 793.2  | 790.8  | 788.5  | 792.4  | 796.3  | 808.7  | 821.1  | 852.1  | 883.2  |
| 52.5°  | 737.3  | 737.3  | 737.3  | 738.1  | 738.8  | 738.8  | 738.8  | 749.7  | 760.6  | 788.5  | 816.4  |
| 55°    | 681.4  | 684.5  | 687.6  | 685.3  | 683.0  | 684.5  | 686.1  | 693.0  | 700.0  | 722.5  | 745.0  |
| 57.5°  | 625.5  | 627.1  | 628.6  | 627.9  | 627.1  | 627.9  | 628.6  | 634.8  | 641.0  | 658.1  | 675.2  |
| 60°    | 572.7  | 572.7  | 572.7  | 571.2  | 569.6  | 571.2  | 572.7  | 575.9  | 579.0  | 594.5  | 610.0  |
| 62.5°  | 513.8  | 514.5  | 515.3  | 516.1  | 516.9  | 515.3  | 513.8  | 517.6  | 521.5  | 533.2  | 544.8  |
| 65°    | 454.8  | 455.6  | 456.3  | 458.7  | 461.0  | 459.4  | 457.9  | 461.8  | 465.7  | 474.2  | 482.7  |
| 67.5°  | 402.0  | 400.5  | 398.9  | 399.7  | 400.5  | 402.8  | 405.1  | 405.9  | 406.7  | 416.0  | 425.3  |
| 70°    | 339.9  | 341.5  | 343.0  | 342.3  | 341.5  | 342.3  | 343.0  | 345.4  | 347.7  | 354.7  | 361.7  |
| 72.5°  | 284.0  | 284.8  | 285.6  | 285.6  | 285.6  | 287.2  | 288.7  | 291.0  | 293.4  | 297.2  | 301.1  |
| 75°    | 232.8  | 232.8  | 232.8  | 234.4  | 235.9  | 236.7  | 237.5  | 237.5  | 237.5  | 240.6  | 243.7  |
| 77.5°  | 176.9  | 180.8  | 184.7  | 183.9  | 183.2  | 184.7  | 186.3  | 188.6  | 190.9  | 192.5  | 194.0  |
| 80°    | 128.8  | 128.8  | 128.8  | 129.6  | 130.4  | 132.7  | 135.0  | 136.6  | 138.1  | 141.2  | 144.4  |
| 82.5°  | 82.3   | 83.0   | 83.8   | 86.1   | 88.5   | 90.0   | 91.6   | 93.9   | 96.2   | 96.2   | 96.2   |
| 85°    | 51.2   | 49.7   | 48.1   | 49.7   | 51.2   | 52.8   | 54.3   | 55.1   | 55.9   | 57.4   | 59.0   |
| 87.5°  | 24.8   | 24.8   | 24.8   | 24.8   | 24.8   | 25.6   | 26.4   | 26.4   | 26.4   | 26.4   | 26.4   |
| 90°    | 23.7   | 23.3   | 23.0   | 22.6   | 22.3   | 21.8   | 21.1   | 20.4   | 19.7   | 18.9   | 16.7   |
| 92.5°  | 34.0   | 34.3   | 34.7   | 35.0   | 35.4   | 35.3   | 34.7   | 34.2   | 33.7   | 33.2   | 32.1   |
| 95°    | 61.6   | 61.6   | 61.6   | 61.6   | 61.6   | 61.2   | 60.5   | 59.8   | 59.1   | 58.4   | 57.0   |
| 97.5°  | 88.4   | 88.6   | 88.8   | 89.0   | 89.1   | 88.8   | 87.9   | 87.0   | 86.1   | 85.3   | 84.2   |
| 100°   | 120.0  | 119.7  | 119.3  | 119.0  | 118.6  | 118.2  | 117.6  | 117.1  | 116.6  | 116.1  | 115.2  |
| 102.5° | 152.4  | 152.6  | 152.7  | 152.9  | 153.1  | 152.9  | 152.4  | 151.9  | 151.3  | 150.8  | 149.6  |
| 105°   | 187.9  | 187.6  | 187.2  | 186.9  | 186.5  | 186.3  | 186.3  | 186.3  | 186.3  | 186.3  | 184.8  |
| 107.5° | 224.2  | 224.4  | 224.6  | 224.8  | 224.9  | 224.8  | 224.2  | 223.7  | 223.2  | 222.7  | 222.0  |
| 110°   | 261.3  | 261.7  | 262.0  | 262.4  | 262.7  | 262.6  | 261.9  | 261.2  | 260.5  | 259.8  | 259.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 300.8  | 300.8  | 300.8  | 300.8  | 300.8  | 300.4  | 299.5  | 298.6  | 297.8  | 296.9  | 296.9  |
| 115°   | 336.4  | 336.5  | 336.7  | 336.9  | 337.1  | 337.1  | 336.9  | 336.7  | 336.5  | 336.4  | 336.7  |
| 117.5° | 372.7  | 373.2  | 373.7  | 374.2  | 374.8  | 375.0  | 375.0  | 375.0  | 375.0  | 375.0  | 375.4  |
| 120°   | 411.4  | 411.7  | 412.1  | 412.4  | 412.8  | 413.0  | 413.2  | 413.4  | 413.6  | 413.7  | 414.6  |
| 122.5° | 448.5  | 449.0  | 449.5  | 450.0  | 450.6  | 451.1  | 451.6  | 452.2  | 452.7  | 453.2  | 453.6  |
| 125°   | 485.6  | 486.3  | 487.0  | 487.7  | 488.4  | 489.1  | 489.8  | 490.5  | 491.2  | 491.9  | 492.2  |
| 127.5° | 522.7  | 523.4  | 524.1  | 524.8  | 525.5  | 526.4  | 527.4  | 528.5  | 529.5  | 530.6  | 530.9  |
| 130°   | 559.0  | 560.2  | 561.5  | 562.7  | 563.9  | 564.9  | 565.6  | 566.3  | 567.0  | 567.7  | 568.2  |
| 132.5° | 596.9  | 597.8  | 598.7  | 599.5  | 600.4  | 601.3  | 602.2  | 603.0  | 603.9  | 604.8  | 605.2  |
| 135°   | 636.4  | 636.7  | 637.1  | 637.4  | 637.8  | 638.3  | 639.0  | 639.7  | 640.4  | 641.1  | 641.3  |
| 137.5° | 671.1  | 671.6  | 672.2  | 672.7  | 673.2  | 673.9  | 674.8  | 675.7  | 676.6  | 677.4  | 676.9  |
| 140°   | 705.1  | 706.3  | 707.5  | 708.8  | 710.0  | 710.7  | 710.9  | 711.0  | 711.2  | 711.4  | 711.2  |
| 142.5° | 739.8  | 740.7  | 741.6  | 742.4  | 743.3  | 743.8  | 744.0  | 744.2  | 744.4  | 744.6  | 744.2  |
| 145°   | 773.0  | 773.7  | 774.4  | 775.1  | 775.8  | 776.2  | 776.4  | 776.6  | 776.7  | 776.9  | 776.4  |
| 147.5° | 803.0  | 804.0  | 805.1  | 806.1  | 807.2  | 807.7  | 807.7  | 807.7  | 807.7  | 807.7  | 807.2  |
| 150°   | 831.4  | 832.5  | 833.5  | 834.6  | 835.6  | 836.1  | 836.1  | 836.1  | 836.1  | 836.1  | 835.8  |
| 152.5° | 859.0  | 859.9  | 860.8  | 861.7  | 862.5  | 862.8  | 862.5  | 862.1  | 861.8  | 861.4  | 861.2  |
| 155°   | 883.5  | 884.7  | 886.0  | 887.2  | 888.4  | 888.7  | 888.0  | 887.3  | 886.6  | 885.9  | 885.7  |
| 157.5° | 906.4  | 907.5  | 908.5  | 909.6  | 910.6  | 910.8  | 910.1  | 909.4  | 908.7  | 908.0  | 907.8  |
| 160°   | 928.5  | 929.2  | 929.9  | 930.6  | 931.3  | 931.2  | 930.4  | 929.5  | 928.6  | 927.7  | 927.7  |
| 162.5° | 945.1  | 946.3  | 947.6  | 948.8  | 950.0  | 950.2  | 949.3  | 948.4  | 947.6  | 946.7  | 946.5  |
| 165°   | 960.9  | 962.1  | 963.3  | 964.6  | 965.8  | 965.9  | 964.8  | 963.8  | 962.7  | 961.7  | 961.7  |
| 167.5° | 975.1  | 976.2  | 977.2  | 978.3  | 979.3  | 979.3  | 978.3  | 977.2  | 976.2  | 975.1  | 974.9  |
| 170°   | 985.4  | 986.6  | 987.8  | 989.1  | 990.3  | 990.3  | 989.1  | 987.8  | 986.6  | 985.4  | 985.4  |
| 172.5° | 993.3  | 994.5  | 995.7  | 996.9  | 998.2  | 998.3  | 997.2  | 996.2  | 995.1  | 994.1  | 994.1  |
| 175°   | 998.8  | 1000.0 | 1001.2 | 1002.5 | 1003.7 | 1003.8 | 1002.7 | 1001.7 | 1000.6 | 999.6  | 999.6  |
| 177.5° | 1001.9 | 1003.2 | 1004.4 | 1005.6 | 1006.9 | 1006.9 | 1005.9 | 1004.8 | 1003.8 | 1002.7 | 1002.7 |
| 180°   | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 |



TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 |
| 2.5°   | 3577.7 | 3568.4 | 3534.3 | 3500.1 | 3461.3 | 3422.5 | 3393.8 | 3365.1 | 3322.4 | 3279.7 | 3244.8 |
| 5°     | 3877.3 | 3833.9 | 3761.7 | 3689.5 | 3591.7 | 3493.9 | 3428.0 | 3362.0 | 3273.5 | 3185.0 | 3114.4 |
| 7.5°   | 4114.8 | 4040.3 | 3939.4 | 3838.5 | 3710.5 | 3582.4 | 3461.3 | 3340.3 | 3205.2 | 3070.2 | 2960.0 |
| 10°    | 4266.1 | 4215.7 | 4099.3 | 3982.9 | 3811.3 | 3639.8 | 3470.6 | 3301.5 | 3127.6 | 2953.8 | 2807.9 |
| 12.5°  | 4280.9 | 4285.5 | 4178.4 | 4071.3 | 3877.3 | 3683.3 | 3477.6 | 3272.0 | 3053.1 | 2834.3 | 2664.3 |
| 15°    | 4151.3 | 4231.2 | 4172.2 | 4113.2 | 3917.7 | 3722.1 | 3469.1 | 3216.1 | 2963.9 | 2711.6 | 2515.3 |
| 17.5°  | 3910.7 | 4082.2 | 4090.7 | 4099.3 | 3903.7 | 3708.1 | 3428.0 | 3147.8 | 2862.2 | 2576.6 | 2370.2 |
| 20°    | 3582.4 | 3835.4 | 3922.3 | 4009.2 | 3850.2 | 3691.1 | 3389.9 | 3088.8 | 2769.1 | 2449.3 | 2232.8 |
| 22.5°  | 3247.1 | 3554.5 | 3713.6 | 3872.7 | 3754.7 | 3636.7 | 3316.2 | 2995.7 | 2658.1 | 2320.5 | 2100.9 |
| 25°    | 2865.3 | 3200.6 | 3445.0 | 3689.5 | 3617.3 | 3545.1 | 3229.3 | 2913.4 | 2554.1 | 2194.8 | 1970.5 |
| 27.5°  | 2532.4 | 2873.1 | 3168.0 | 3462.9 | 3447.4 | 3431.8 | 3118.3 | 2804.8 | 2436.9 | 2069.0 | 1852.5 |
| 30°    | 2235.9 | 2553.3 | 2883.2 | 3213.0 | 3251.0 | 3289.0 | 2986.4 | 2683.7 | 2315.1 | 1946.4 | 1737.7 |
| 32.5°  | 1973.6 | 2250.6 | 2604.5 | 2958.4 | 3032.9 | 3107.4 | 2834.3 | 2561.1 | 2196.3 | 1831.6 | 1630.6 |
| 35°    | 1758.6 | 2010.1 | 2364.0 | 2717.8 | 2811.0 | 2904.1 | 2666.6 | 2429.1 | 2073.7 | 1718.2 | 1526.6 |
| 37.5°  | 1568.5 | 1778.8 | 2124.1 | 2469.5 | 2583.6 | 2697.7 | 2485.0 | 2272.4 | 1939.4 | 1606.5 | 1430.3 |
| 40°    | 1410.9 | 1580.1 | 1897.5 | 2214.9 | 2346.9 | 2478.8 | 2303.4 | 2128.0 | 1812.2 | 1496.3 | 1334.1 |
| 42.5°  | 1279.0 | 1429.5 | 1717.5 | 2005.4 | 2131.9 | 2258.4 | 2110.2 | 1961.9 | 1681.0 | 1400.1 | 1251.8 |
| 45°    | 1166.5 | 1286.7 | 1548.3 | 1809.8 | 1930.1 | 2050.4 | 1923.1 | 1795.9 | 1548.3 | 1300.7 | 1162.6 |
| 47.5°  | 1060.9 | 1164.1 | 1387.6 | 1611.1 | 1718.2 | 1825.3 | 1726.0 | 1626.7 | 1417.1 | 1207.6 | 1082.6 |
| 50°    | 966.2  | 1049.3 | 1244.8 | 1440.4 | 1533.5 | 1626.7 | 1539.0 | 1451.3 | 1279.0 | 1106.7 | 998.0  |
| 52.5°  | 884.0  | 951.5  | 1115.2 | 1279.0 | 1358.9 | 1438.9 | 1363.6 | 1288.3 | 1151.7 | 1015.1 | 920.4  |
| 55°    | 802.5  | 859.9  | 1001.9 | 1143.9 | 1198.3 | 1252.6 | 1194.4 | 1136.2 | 1026.0 | 915.8  | 835.8  |
| 57.5°  | 726.4  | 777.6  | 894.0  | 1010.5 | 1052.4 | 1094.3 | 1041.5 | 988.7  | 905.7  | 822.6  | 755.9  |
| 60°    | 651.9  | 693.8  | 790.8  | 887.8  | 913.5  | 939.1  | 896.4  | 853.7  | 795.5  | 737.3  | 677.5  |
| 62.5°  | 582.8  | 620.9  | 693.0  | 765.2  | 782.3  | 799.4  | 766.8  | 734.2  | 689.9  | 645.7  | 599.1  |
| 65°    | 511.4  | 540.2  | 599.1  | 658.1  | 669.0  | 679.8  | 651.1  | 622.4  | 589.0  | 555.7  | 521.5  |
| 67.5°  | 445.5  | 465.7  | 513.8  | 561.9  | 562.7  | 563.4  | 540.2  | 516.9  | 498.2  | 479.6  | 452.5  |
| 70°    | 381.1  | 400.5  | 432.3  | 464.1  | 464.9  | 465.7  | 447.0  | 428.4  | 414.4  | 400.5  | 380.3  |
| 72.5°  | 315.1  | 329.1  | 353.1  | 377.2  | 375.6  | 374.1  | 362.4  | 350.8  | 339.9  | 329.1  | 314.3  |
| 75°    | 255.3  | 267.0  | 283.3  | 299.6  | 294.9  | 290.3  | 284.0  | 277.8  | 268.5  | 259.2  | 249.9  |
| 77.5°  | 201.0  | 208.0  | 217.3  | 226.6  | 223.5  | 220.4  | 215.0  | 209.5  | 202.6  | 195.6  | 191.7  |
| 80°    | 147.5  | 150.6  | 156.8  | 163.0  | 161.4  | 159.9  | 153.7  | 147.5  | 145.9  | 144.4  | 138.9  |
| 82.5°  | 100.1  | 104.0  | 105.5  | 107.1  | 106.3  | 105.5  | 100.9  | 96.2   | 94.7   | 93.1   | 92.4   |
| 85°    | 59.8   | 60.5   | 61.3   | 62.1   | 59.8   | 57.4   | 55.9   | 54.3   | 54.3   | 54.3   | 53.5   |
| 87.5°  | 27.2   | 27.9   | 27.9   | 27.9   | 27.2   | 26.4   | 24.8   | 23.3   | 24.1   | 24.8   | 24.8   |
| 90°    | 14.4   | 12.1   | 9.8    | 7.8    | 6.1    | 4.3    | 2.5    | 0.8    | 2.5    | 4.3    | 6.1    |
| 92.5°  | 31.1   | 30.0   | 29.0   | 27.9   | 26.8   | 25.8   | 24.7   | 23.7   | 24.7   | 25.8   | 26.8   |
| 95°    | 55.6   | 54.2   | 52.8   | 51.5   | 50.3   | 49.0   | 47.8   | 46.6   | 47.8   | 49.0   | 50.3   |
| 97.5°  | 83.2   | 82.1   | 81.1   | 80.1   | 79.2   | 78.3   | 77.5   | 76.6   | 77.5   | 78.3   | 79.2   |
| 100°   | 114.3  | 113.4  | 112.6  | 111.6  | 110.5  | 109.5  | 108.4  | 107.4  | 108.4  | 109.5  | 110.5  |
| 102.5° | 148.3  | 147.1  | 145.9  | 145.0  | 144.5  | 144.0  | 143.4  | 142.9  | 143.4  | 144.0  | 144.5  |
| 105°   | 183.2  | 181.6  | 180.0  | 179.1  | 178.7  | 178.4  | 178.0  | 177.7  | 178.0  | 178.4  | 178.7  |
| 107.5° | 221.3  | 220.5  | 219.8  | 219.4  | 219.2  | 219.1  | 218.9  | 218.7  | 218.9  | 219.1  | 219.2  |
| 110°   | 259.1  | 258.7  | 258.4  | 258.0  | 257.7  | 257.3  | 257.0  | 256.6  | 257.0  | 257.3  | 257.7  |





TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 296.9  | 296.9  | 296.9  | 296.8  | 296.6  | 296.4  | 296.3  | 296.1  | 296.3  | 296.4  | 296.6  |
| 115°   | 337.1  | 337.4  | 337.8  | 337.7  | 337.1  | 336.6  | 336.1  | 335.6  | 336.1  | 336.6  | 337.1  |
| 117.5° | 375.7  | 376.1  | 376.4  | 376.5  | 376.4  | 376.2  | 376.0  | 375.8  | 376.0  | 376.2  | 376.4  |
| 120°   | 415.5  | 416.4  | 417.2  | 417.1  | 416.1  | 415.0  | 414.0  | 412.9  | 414.0  | 415.0  | 416.1  |
| 122.5° | 453.9  | 454.3  | 454.6  | 454.4  | 453.7  | 453.0  | 452.3  | 451.6  | 452.3  | 453.0  | 453.7  |
| 125°   | 492.6  | 492.9  | 493.3  | 493.2  | 492.7  | 492.2  | 491.6  | 491.1  | 491.6  | 492.2  | 492.7  |
| 127.5° | 531.3  | 531.6  | 532.0  | 531.6  | 530.6  | 529.5  | 528.5  | 527.4  | 528.5  | 529.5  | 530.6  |
| 130°   | 568.7  | 569.3  | 569.8  | 569.4  | 568.0  | 566.6  | 565.1  | 563.7  | 565.1  | 566.6  | 568.0  |
| 132.5° | 605.5  | 605.9  | 606.2  | 605.7  | 604.3  | 602.9  | 601.5  | 600.1  | 601.5  | 602.9  | 604.3  |
| 135°   | 641.5  | 641.6  | 641.8  | 641.4  | 640.3  | 639.3  | 638.2  | 637.2  | 638.2  | 639.3  | 640.3  |
| 137.5° | 676.4  | 675.9  | 675.3  | 674.6  | 673.8  | 672.9  | 672.0  | 671.1  | 672.0  | 672.9  | 673.8  |
| 140°   | 711.0  | 710.9  | 710.7  | 710.2  | 709.3  | 708.4  | 707.5  | 706.7  | 707.5  | 708.4  | 709.3  |
| 142.5° | 743.8  | 743.5  | 743.1  | 742.5  | 741.7  | 740.8  | 739.9  | 739.0  | 739.9  | 740.8  | 741.7  |
| 145°   | 775.9  | 775.3  | 774.8  | 774.4  | 774.0  | 773.7  | 773.3  | 773.0  | 773.3  | 773.7  | 774.0  |
| 147.5° | 806.7  | 806.1  | 805.6  | 805.0  | 804.3  | 803.6  | 802.9  | 802.2  | 802.9  | 803.6  | 804.3  |
| 150°   | 835.4  | 835.1  | 834.7  | 834.4  | 834.0  | 833.7  | 833.3  | 833.0  | 833.3  | 833.7  | 834.0  |
| 152.5° | 861.1  | 860.9  | 860.7  | 860.4  | 859.8  | 859.3  | 858.8  | 858.2  | 858.8  | 859.3  | 859.8  |
| 155°   | 885.5  | 885.4  | 885.2  | 885.1  | 885.1  | 885.1  | 885.1  | 885.1  | 885.1  | 885.1  | 885.1  |
| 157.5° | 907.6  | 907.5  | 907.3  | 907.3  | 907.5  | 907.6  | 907.8  | 908.0  | 907.8  | 907.6  | 907.5  |
| 160°   | 927.7  | 927.7  | 927.7  | 927.9  | 928.3  | 928.6  | 929.0  | 929.3  | 929.0  | 928.6  | 928.3  |
| 162.5° | 946.3  | 946.2  | 946.0  | 946.2  | 946.7  | 947.2  | 947.7  | 948.3  | 947.7  | 947.2  | 946.7  |
| 165°   | 961.7  | 961.7  | 961.7  | 961.9  | 962.5  | 963.0  | 963.5  | 964.0  | 963.5  | 963.0  | 962.5  |
| 167.5° | 974.8  | 974.6  | 974.4  | 974.7  | 975.4  | 976.1  | 976.8  | 977.5  | 976.8  | 976.1  | 975.4  |
| 170°   | 985.4  | 985.4  | 985.4  | 985.7  | 986.4  | 987.1  | 987.8  | 988.5  | 987.8  | 987.1  | 986.4  |
| 172.5° | 994.1  | 994.1  | 994.1  | 994.4  | 995.1  | 995.8  | 996.5  | 997.2  | 996.5  | 995.8  | 995.1  |
| 175°   | 999.6  | 999.6  | 999.6  | 999.9  | 1000.6 | 1001.3 | 1002.0 | 1002.7 | 1002.0 | 1001.3 | 1000.6 |
| 177.5° | 1002.7 | 1002.7 | 1002.7 | 1003.1 | 1003.8 | 1004.5 | 1005.2 | 1005.9 | 1005.2 | 1004.5 | 1003.8 |
| 180°   | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 |



TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 | 3344.9 |
| 2.5°   | 3209.9 | 3179.6 | 3149.3 | 3126.1 | 3102.8 | 3063.2 | 3023.6 | 3014.3 | 3005.0 | 2991.8 | 2978.6 |
| 5°     | 3043.8 | 2969.3 | 2894.8 | 2828.0 | 2761.3 | 2709.3 | 2657.3 | 2623.2 | 2589.0 | 2564.2 | 2539.3 |
| 7.5°   | 2849.8 | 2738.0 | 2626.3 | 2547.1 | 2467.9 | 2392.7 | 2317.4 | 2293.3 | 2269.3 | 2236.7 | 2204.1 |
| 10°    | 2662.0 | 2538.6 | 2415.2 | 2312.0 | 2208.7 | 2135.0 | 2061.3 | 2031.8 | 2002.3 | 1961.2 | 1920.0 |
| 12.5°  | 2494.3 | 2359.3 | 2224.3 | 2120.3 | 2016.3 | 1944.9 | 1873.5 | 1830.8 | 1788.1 | 1764.8 | 1741.5 |
| 15°    | 2318.9 | 2174.6 | 2030.2 | 1934.0 | 1837.8 | 1773.4 | 1708.9 | 1671.7 | 1634.4 | 1611.9 | 1589.4 |
| 17.5°  | 2163.7 | 2020.9 | 1878.1 | 1785.8 | 1693.4 | 1634.4 | 1575.4 | 1542.9 | 1510.3 | 1493.2 | 1476.1 |
| 20°    | 2016.3 | 1876.6 | 1736.9 | 1646.8 | 1556.8 | 1508.7 | 1460.6 | 1439.6 | 1418.7 | 1404.7 | 1390.7 |
| 22.5°  | 1881.2 | 1743.9 | 1606.5 | 1529.7 | 1452.8 | 1414.0 | 1375.2 | 1360.5 | 1345.7 | 1334.1 | 1322.4 |
| 25°    | 1746.2 | 1623.6 | 1500.9 | 1435.8 | 1370.6 | 1338.7 | 1306.9 | 1292.2 | 1277.4 | 1265.8 | 1254.2 |
| 27.5°  | 1636.0 | 1518.8 | 1401.6 | 1345.7 | 1289.9 | 1265.0 | 1240.2 | 1228.5 | 1216.9 | 1206.0 | 1195.2 |
| 30°    | 1528.9 | 1424.1 | 1319.3 | 1271.2 | 1223.1 | 1200.6 | 1178.1 | 1166.5 | 1154.8 | 1144.7 | 1134.6 |
| 32.5°  | 1429.5 | 1339.5 | 1249.5 | 1205.3 | 1161.0 | 1142.4 | 1123.8 | 1109.8 | 1095.8 | 1088.1 | 1080.3 |
| 35°    | 1334.9 | 1254.2 | 1173.4 | 1137.0 | 1100.5 | 1081.9 | 1063.2 | 1051.6 | 1040.0 | 1033.7 | 1027.5 |
| 37.5°  | 1254.2 | 1182.0 | 1109.8 | 1074.9 | 1040.0 | 1022.1 | 1004.3 | 994.2  | 984.1  | 981.7  | 979.4  |
| 40°    | 1171.9 | 1109.8 | 1047.7 | 1013.6 | 979.4  | 963.9  | 948.4  | 942.2  | 936.0  | 934.4  | 932.9  |
| 42.5°  | 1103.6 | 1043.1 | 982.5  | 951.5  | 920.4  | 907.2  | 894.0  | 890.9  | 887.8  | 890.2  | 892.5  |
| 45°    | 1024.4 | 974.0  | 923.5  | 894.8  | 866.1  | 855.2  | 844.4  | 842.1  | 839.7  | 844.4  | 849.0  |
| 47.5°  | 957.7  | 911.1  | 864.6  | 837.4  | 810.2  | 802.5  | 794.7  | 793.9  | 793.2  | 799.4  | 805.6  |
| 50°    | 889.4  | 844.4  | 799.4  | 777.6  | 755.9  | 748.9  | 741.9  | 744.3  | 746.6  | 756.7  | 766.8  |
| 52.5°  | 825.8  | 783.8  | 741.9  | 721.8  | 701.6  | 696.9  | 692.3  | 697.7  | 703.1  | 714.0  | 724.9  |
| 55°    | 755.9  | 717.9  | 679.8  | 664.3  | 648.8  | 644.1  | 639.5  | 650.4  | 661.2  | 671.3  | 681.4  |
| 57.5°  | 689.2  | 655.8  | 622.4  | 608.4  | 594.5  | 593.7  | 592.9  | 603.0  | 613.1  | 624.0  | 634.8  |
| 60°    | 617.8  | 589.8  | 561.9  | 551.0  | 540.2  | 541.7  | 543.3  | 554.9  | 566.5  | 575.1  | 583.6  |
| 62.5°  | 552.6  | 529.3  | 506.0  | 495.9  | 485.8  | 489.7  | 493.6  | 505.2  | 516.9  | 527.0  | 537.0  |
| 65°    | 487.4  | 468.0  | 448.6  | 441.6  | 434.6  | 440.0  | 445.5  | 455.6  | 465.7  | 472.6  | 479.6  |
| 67.5°  | 425.3  | 409.0  | 392.7  | 387.3  | 381.8  | 387.3  | 392.7  | 402.8  | 412.9  | 419.9  | 426.8  |
| 70°    | 360.1  | 346.9  | 333.7  | 329.8  | 326.0  | 332.2  | 338.4  | 346.9  | 355.4  | 362.4  | 369.4  |
| 72.5°  | 299.6  | 289.5  | 279.4  | 278.6  | 277.8  | 283.3  | 288.7  | 297.2  | 305.8  | 310.4  | 315.1  |
| 75°    | 240.6  | 235.2  | 229.7  | 228.9  | 228.2  | 233.6  | 239.0  | 243.7  | 248.3  | 252.2  | 256.1  |
| 77.5°  | 187.8  | 183.2  | 178.5  | 179.3  | 180.1  | 183.9  | 187.8  | 192.5  | 197.1  | 199.5  | 201.8  |
| 80°    | 133.5  | 131.9  | 130.4  | 131.9  | 133.5  | 136.6  | 139.7  | 142.8  | 145.9  | 147.5  | 149.0  |
| 82.5°  | 91.6   | 90.0   | 88.5   | 90.8   | 93.1   | 95.5   | 97.8   | 100.1  | 102.4  | 103.2  | 104.0  |
| 85°    | 52.8   | 55.1   | 57.4   | 57.4   | 57.4   | 58.2   | 59.0   | 59.8   | 60.5   | 59.8   | 59.0   |
| 87.5°  | 24.8   | 25.6   | 26.4   | 26.4   | 26.4   | 27.2   | 27.9   | 27.9   | 27.9   | 27.2   | 26.4   |
| 90°    | 7.8    | 9.8    | 12.1   | 14.4   | 16.7   | 18.9   | 19.7   | 20.4   | 21.1   | 21.8   | 22.3   |
| 92.5°  | 27.9   | 29.0   | 30.0   | 31.1   | 32.1   | 33.2   | 33.7   | 34.2   | 34.7   | 35.3   | 35.4   |
| 95°    | 51.5   | 52.8   | 54.2   | 55.6   | 57.0   | 58.4   | 59.1   | 59.8   | 60.5   | 61.2   | 61.6   |
| 97.5°  | 80.1   | 81.1   | 82.1   | 83.2   | 84.2   | 85.3   | 86.1   | 87.0   | 87.9   | 88.8   | 89.1   |
| 100°   | 111.6  | 112.6  | 113.4  | 114.3  | 115.2  | 116.1  | 116.6  | 117.1  | 117.6  | 118.2  | 118.6  |
| 102.5° | 145.0  | 145.9  | 147.1  | 148.3  | 149.6  | 150.8  | 151.3  | 151.9  | 152.4  | 152.9  | 153.1  |
| 105°   | 179.1  | 180.0  | 181.6  | 183.2  | 184.8  | 186.3  | 186.3  | 186.3  | 186.3  | 186.3  | 186.5  |
| 107.5° | 219.4  | 219.8  | 220.5  | 221.3  | 222.0  | 222.7  | 223.2  | 223.7  | 224.2  | 224.8  | 224.9  |
| 110°   | 258.0  | 258.4  | 258.7  | 259.1  | 259.4  | 259.8  | 260.5  | 261.2  | 261.9  | 262.6  | 262.7  |



TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 296.8  | 296.9  | 296.9  | 296.9  | 296.9  | 296.9  | 297.8  | 298.6  | 299.5  | 300.4  | 300.8  |
| 115°   | 337.7  | 337.8  | 337.4  | 337.1  | 336.7  | 336.4  | 336.5  | 336.7  | 336.9  | 337.1  | 337.1  |
| 117.5° | 376.5  | 376.4  | 376.1  | 375.7  | 375.4  | 375.0  | 375.0  | 375.0  | 375.0  | 375.0  | 374.8  |
| 120°   | 417.1  | 417.2  | 416.4  | 415.5  | 414.6  | 413.7  | 413.6  | 413.4  | 413.2  | 413.0  | 412.8  |
| 122.5° | 454.4  | 454.6  | 454.3  | 453.9  | 453.6  | 453.2  | 452.7  | 452.2  | 451.6  | 451.1  | 450.6  |
| 125°   | 493.2  | 493.3  | 492.9  | 492.6  | 492.2  | 491.9  | 491.2  | 490.5  | 489.8  | 489.1  | 488.4  |
| 127.5° | 531.6  | 532.0  | 531.6  | 531.3  | 530.9  | 530.6  | 529.5  | 528.5  | 527.4  | 526.4  | 525.5  |
| 130°   | 569.4  | 569.8  | 569.3  | 568.7  | 568.2  | 567.7  | 567.0  | 566.3  | 565.6  | 564.9  | 563.9  |
| 132.5° | 605.7  | 606.2  | 605.9  | 605.5  | 605.2  | 604.8  | 603.9  | 603.0  | 602.2  | 601.3  | 600.4  |
| 135°   | 641.4  | 641.8  | 641.6  | 641.5  | 641.3  | 641.1  | 640.4  | 639.7  | 639.0  | 638.3  | 637.8  |
| 137.5° | 674.6  | 675.3  | 675.9  | 676.4  | 676.9  | 677.4  | 676.6  | 675.7  | 674.8  | 673.9  | 673.2  |
| 140°   | 710.2  | 710.7  | 710.9  | 711.0  | 711.2  | 711.4  | 711.2  | 711.0  | 710.9  | 710.7  | 710.0  |
| 142.5° | 742.5  | 743.1  | 743.5  | 743.8  | 744.2  | 744.6  | 744.4  | 744.2  | 744.0  | 743.8  | 743.3  |
| 145°   | 774.4  | 774.8  | 775.3  | 775.9  | 776.4  | 776.9  | 776.7  | 776.6  | 776.4  | 776.2  | 775.8  |
| 147.5° | 805.0  | 805.6  | 806.1  | 806.7  | 807.2  | 807.7  | 807.7  | 807.7  | 807.7  | 807.7  | 807.2  |
| 150°   | 834.4  | 834.7  | 835.1  | 835.4  | 835.8  | 836.1  | 836.1  | 836.1  | 836.1  | 836.1  | 835.6  |
| 152.5° | 860.4  | 860.7  | 860.9  | 861.1  | 861.2  | 861.4  | 861.8  | 862.1  | 862.5  | 862.8  | 862.5  |
| 155°   | 885.1  | 885.2  | 885.4  | 885.5  | 885.7  | 885.9  | 886.6  | 887.3  | 888.0  | 888.7  | 888.4  |
| 157.5° | 907.3  | 907.3  | 907.5  | 907.6  | 907.8  | 908.0  | 908.7  | 909.4  | 910.1  | 910.8  | 910.6  |
| 160°   | 927.9  | 927.7  | 927.7  | 927.7  | 927.7  | 927.7  | 928.6  | 929.5  | 930.4  | 931.2  | 931.3  |
| 162.5° | 946.2  | 946.0  | 946.2  | 946.3  | 946.5  | 946.7  | 947.6  | 948.4  | 949.3  | 950.2  | 950.0  |
| 165°   | 961.9  | 961.7  | 961.7  | 961.7  | 961.7  | 961.7  | 962.7  | 963.8  | 964.8  | 965.9  | 965.8  |
| 167.5° | 974.7  | 974.4  | 974.6  | 974.8  | 974.9  | 975.1  | 976.2  | 977.2  | 978.3  | 979.3  | 979.3  |
| 170°   | 985.7  | 985.4  | 985.4  | 985.4  | 985.4  | 985.4  | 986.6  | 987.8  | 989.1  | 990.3  | 990.3  |
| 172.5° | 994.4  | 994.1  | 994.1  | 994.1  | 994.1  | 994.1  | 995.1  | 996.2  | 997.2  | 998.3  | 998.2  |
| 175°   | 999.9  | 999.6  | 999.6  | 999.6  | 999.6  | 999.6  | 1000.6 | 1001.7 | 1002.7 | 1003.8 | 1003.7 |
| 177.5° | 1003.1 | 1002.7 | 1002.7 | 1002.7 | 1002.7 | 1002.7 | 1003.8 | 1004.8 | 1005.9 | 1006.9 | 1006.9 |
| 180°   | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 | 1005.1 |



TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 3344.9 | 3344.9 | 3344.9 | 3344.9 |
| 2.5°   | 2973.2 | 2967.7 | 2946.0 | 2924.3 |
| 5°     | 2520.7 | 2502.1 | 2495.9 | 2489.7 |
| 7.5°   | 2202.5 | 2201.0 | 2168.4 | 2135.8 |
| 10°    | 1922.4 | 1924.7 | 1895.2 | 1865.7 |
| 12.5°  | 1722.1 | 1702.7 | 1700.4 | 1698.1 |
| 15°    | 1571.6 | 1553.7 | 1550.6 | 1547.5 |
| 17.5°  | 1465.2 | 1454.4 | 1451.3 | 1448.2 |
| 20°    | 1384.5 | 1378.3 | 1372.9 | 1367.5 |
| 22.5°  | 1314.7 | 1306.9 | 1302.3 | 1297.6 |
| 25°    | 1247.2 | 1240.2 | 1238.6 | 1237.1 |
| 27.5°  | 1186.6 | 1178.1 | 1178.1 | 1178.1 |
| 30°    | 1129.2 | 1123.8 | 1121.4 | 1119.1 |
| 32.5°  | 1075.7 | 1071.0 | 1071.0 | 1071.0 |
| 35°    | 1025.2 | 1022.9 | 1019.8 | 1016.7 |
| 37.5°  | 979.4  | 979.4  | 977.9  | 976.3  |
| 40°    | 935.2  | 937.5  | 937.5  | 937.5  |
| 42.5°  | 894.8  | 897.2  | 897.2  | 897.2  |
| 45°    | 852.9  | 856.8  | 858.3  | 859.9  |
| 47.5°  | 811.8  | 818.0  | 819.5  | 821.1  |
| 50°    | 771.4  | 776.1  | 776.9  | 777.6  |
| 52.5°  | 730.3  | 735.7  | 739.6  | 743.5  |
| 55°    | 686.8  | 692.3  | 694.6  | 696.9  |
| 57.5°  | 640.3  | 645.7  | 646.5  | 647.3  |
| 60°    | 589.0  | 594.5  | 596.0  | 597.6  |
| 62.5°  | 540.2  | 543.3  | 544.8  | 546.4  |
| 65°    | 484.3  | 488.9  | 492.0  | 495.1  |
| 67.5°  | 430.7  | 434.6  | 434.6  | 434.6  |
| 70°    | 371.0  | 372.5  | 374.8  | 377.2  |
| 72.5°  | 315.9  | 316.6  | 316.6  | 316.6  |
| 75°    | 257.7  | 259.2  | 260.0  | 260.8  |
| 77.5°  | 202.6  | 203.3  | 203.3  | 203.3  |
| 80°    | 148.2  | 147.5  | 147.5  | 147.5  |
| 82.5°  | 101.7  | 99.3   | 99.3   | 99.3   |
| 85°    | 58.2   | 57.4   | 58.2   | 59.0   |
| 87.5°  | 26.4   | 26.4   | 26.4   | 26.4   |
| 90°    | 22.6   | 23.0   | 23.3   | 23.7   |
| 92.5°  | 35.0   | 34.7   | 34.3   | 34.0   |
| 95°    | 61.6   | 61.6   | 61.6   | 61.6   |
| 97.5°  | 89.0   | 88.8   | 88.6   | 88.4   |
| 100°   | 119.0  | 119.3  | 119.7  | 120.0  |
| 102.5° | 152.9  | 152.7  | 152.6  | 152.4  |
| 105°   | 186.9  | 187.2  | 187.6  | 187.9  |
| 107.5° | 224.8  | 224.6  | 224.4  | 224.2  |
| 110°   | 262.4  | 262.0  | 261.7  | 261.3  |



TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 300.8  | 300.8  | 300.8  | 300.8  |
| 115°   | 336.9  | 336.7  | 336.5  | 336.4  |
| 117.5° | 374.2  | 373.7  | 373.2  | 372.7  |
| 120°   | 412.4  | 412.1  | 411.7  | 411.4  |
| 122.5° | 450.0  | 449.5  | 449.0  | 448.5  |
| 125°   | 487.7  | 487.0  | 486.3  | 485.6  |
| 127.5° | 524.8  | 524.1  | 523.4  | 522.7  |
| 130°   | 562.7  | 561.5  | 560.2  | 559.0  |
| 132.5° | 599.5  | 598.7  | 597.8  | 596.9  |
| 135°   | 637.4  | 637.1  | 636.7  | 636.4  |
| 137.5° | 672.7  | 672.2  | 671.6  | 671.1  |
| 140°   | 708.8  | 707.5  | 706.3  | 705.1  |
| 142.5° | 742.4  | 741.6  | 740.7  | 739.8  |
| 145°   | 775.1  | 774.4  | 773.7  | 773.0  |
| 147.5° | 806.1  | 805.1  | 804.0  | 803.0  |
| 150°   | 834.6  | 833.5  | 832.5  | 831.4  |
| 152.5° | 861.7  | 860.8  | 859.9  | 859.0  |
| 155°   | 887.2  | 886.0  | 884.7  | 883.5  |
| 157.5° | 909.6  | 908.5  | 907.5  | 906.4  |
| 160°   | 930.6  | 929.9  | 929.2  | 928.5  |
| 162.5° | 948.8  | 947.6  | 946.3  | 945.1  |
| 165°   | 964.6  | 963.3  | 962.1  | 960.9  |
| 167.5° | 978.3  | 977.2  | 976.2  | 975.1  |
| 170°   | 989.1  | 987.8  | 986.6  | 985.4  |
| 172.5° | 996.9  | 995.7  | 994.5  | 993.3  |
| 175°   | 1002.5 | 1001.2 | 1000.0 | 998.8  |
| 177.5° | 1005.6 | 1004.4 | 1003.2 | 1001.9 |
| 180°   | 1005.1 | 1005.1 | 1005.1 | 1005.1 |



TEST NUMBER: P831295

CATALOG NUMBER: S123DIP-S1165D805U840-4F0-1E-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 | 17.39            | 18.36 | 18.21 | 19.19 | 20.22 | 19.63          | 20.60 | 20.44 | 21.43 | 22.46 |
|                 | 3H   | 19.04            | 19.92 | 19.87 | 20.76 | 21.81 | 21.06          | 21.93 | 21.89 | 22.77 | 23.83 |
|                 | 4H   | 19.63            | 20.45 | 20.47 | 21.30 | 22.37 | 21.51          | 22.34 | 22.36 | 23.18 | 24.25 |
|                 | 6H   | 20.00            | 20.76 | 20.86 | 21.62 | 22.70 | 21.79          | 22.55 | 22.65 | 23.41 | 24.49 |
|                 | 8H   | 20.10            | 20.82 | 20.97 | 21.70 | 22.78 | 21.86          | 22.58 | 22.73 | 23.46 | 24.54 |
|                 | 12H  | 20.15            | 20.84 | 21.02 | 21.71 | 22.81 | 21.88          | 22.57 | 22.75 | 23.44 | 24.54 |
| 4H              | 2H   | 17.98            | 18.80 | 18.83 | 19.65 | 20.72 | 19.80          | 20.62 | 20.65 | 21.47 | 22.54 |
|                 | 3H   | 19.82            | 20.50 | 20.68 | 21.38 | 22.46 | 21.43          | 22.11 | 22.29 | 23.00 | 24.08 |
|                 | 4H   | 20.52            | 21.14 | 21.39 | 22.02 | 23.13 | 22.02          | 22.64 | 22.89 | 23.52 | 24.63 |
|                 | 6H   | 21.00            | 21.54 | 21.89 | 22.44 | 23.55 | 22.43          | 22.97 | 23.32 | 23.87 | 24.98 |
|                 | 8H   | 21.14            | 21.64 | 22.03 | 22.54 | 23.66 | 22.54          | 23.04 | 23.43 | 23.94 | 25.07 |
|                 | 12H  | 21.21            | 21.66 | 22.12 | 22.58 | 23.71 | 22.59          | 23.04 | 23.50 | 23.96 | 25.09 |
| 8H              | 4H   | 20.79            | 21.29 | 21.68 | 22.19 | 23.32 | 22.13          | 22.63 | 23.02 | 23.53 | 24.66 |
|                 | 6H   | 21.39            | 21.80 | 22.30 | 22.74 | 23.86 | 22.64          | 23.05 | 23.56 | 23.99 | 25.12 |
|                 | 8H   | 21.59            | 21.96 | 22.52 | 22.89 | 24.03 | 22.82          | 23.19 | 23.75 | 24.12 | 25.26 |
|                 | 12H  | 21.72            | 22.04 | 22.65 | 22.97 | 24.16 | 22.93          | 23.25 | 23.86 | 24.17 | 25.37 |
| 12H             | 4H   | 20.80            | 21.25 | 21.71 | 22.17 | 23.30 | 22.11          | 22.56 | 23.02 | 23.48 | 24.61 |
|                 | 6H   | 21.44            | 21.80 | 22.36 | 22.73 | 23.88 | 22.65          | 23.02 | 23.58 | 23.95 | 25.09 |
|                 | 8H   | 21.68            | 22.00 | 22.61 | 22.92 | 24.12 | 22.86          | 23.18 | 23.79 | 24.10 | 25.30 |