

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: P831707

Luminaire Tested: S123DIP-S775D805U927-4F0-1E-UDD-G4

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831707  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D805U927-4F0-1E-UDD-G4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: -

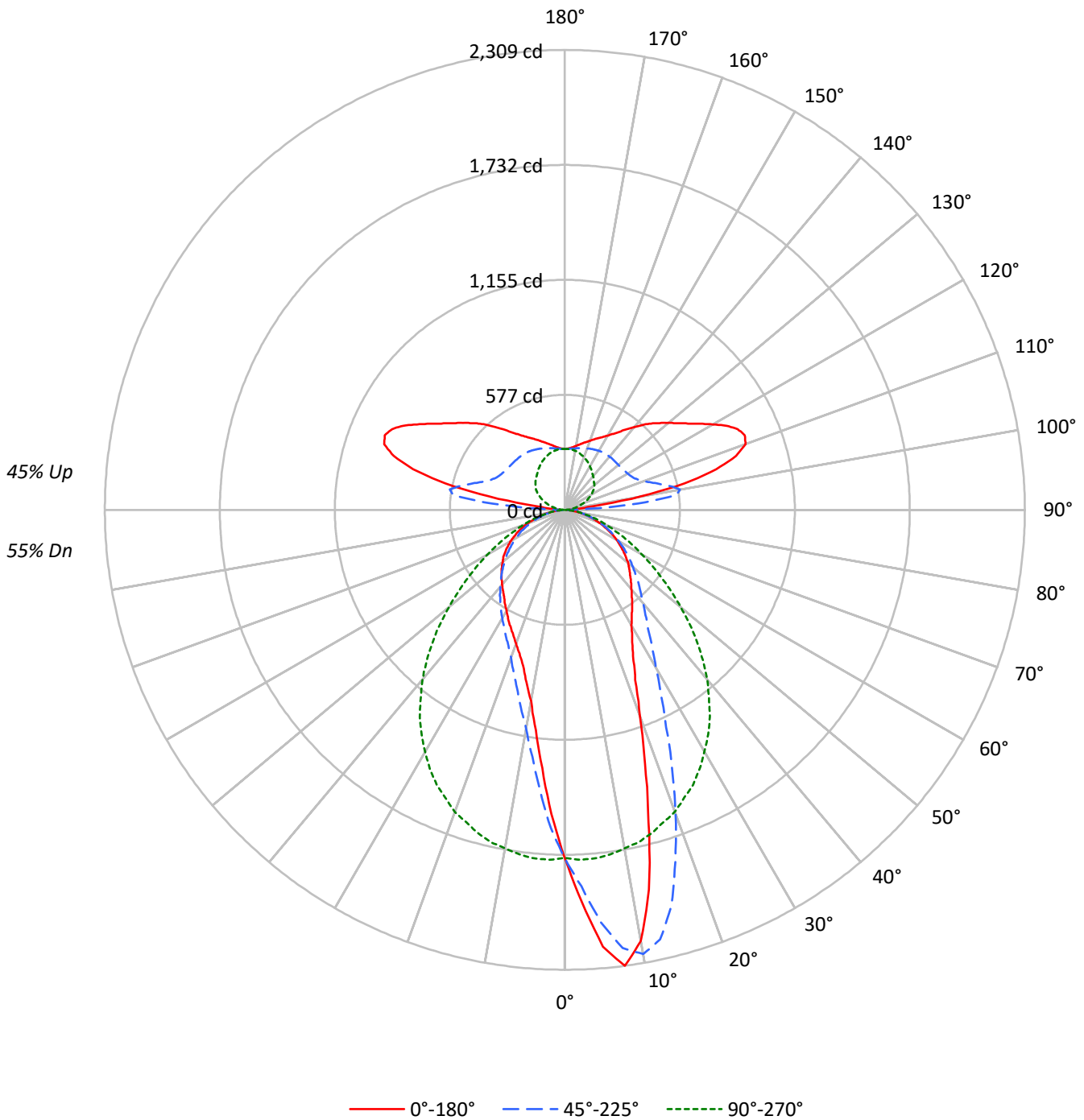
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5112.8 lumens  
Efficiency: N/A  
Efficacy: 110.0 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: General Diffuse  
  
Input Watts (W): 46.5  
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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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF  | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |    |    |    | 20 |    |    |  |  |
| RC  | 80  |     |     |     |     | 70  |     |     |    |    | 50 |    |    |    |    | 30 |    |    |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |  |  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |  |
| 0   | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |  |  |
| 1   | 99  | 95  | 92  | 88  | 92  | 89  | 86  | 83  | 76 | 74 | 72 | 65 | 63 | 62 | 55 | 53 | 52 | 47 |  |  |
| 2   | 91  | 84  | 78  | 73  | 84  | 78  | 73  | 69  | 68 | 64 | 61 | 58 | 55 | 53 | 49 | 47 | 45 | 41 |  |  |
| 3   | 84  | 74  | 67  | 62  | 77  | 70  | 63  | 58  | 60 | 56 | 52 | 52 | 48 | 45 | 44 | 41 | 39 | 35 |  |  |
| 4   | 77  | 66  | 59  | 53  | 71  | 62  | 55  | 50  | 54 | 49 | 45 | 47 | 43 | 39 | 40 | 37 | 34 | 31 |  |  |
| 5   | 71  | 60  | 52  | 46  | 66  | 56  | 49  | 44  | 49 | 43 | 39 | 42 | 38 | 35 | 36 | 33 | 31 | 27 |  |  |
| 6   | 66  | 54  | 46  | 40  | 61  | 51  | 44  | 38  | 44 | 39 | 35 | 39 | 34 | 31 | 33 | 30 | 27 | 25 |  |  |
| 7   | 61  | 49  | 41  | 36  | 57  | 46  | 39  | 34  | 41 | 35 | 31 | 35 | 31 | 28 | 31 | 27 | 25 | 22 |  |  |
| 8   | 57  | 45  | 37  | 32  | 53  | 42  | 35  | 31  | 37 | 32 | 28 | 33 | 28 | 25 | 28 | 25 | 22 | 20 |  |  |
| 9   | 53  | 41  | 34  | 29  | 49  | 39  | 32  | 28  | 34 | 29 | 25 | 30 | 26 | 23 | 26 | 23 | 21 | 19 |  |  |
| 10  | 50  | 38  | 31  | 26  | 46  | 36  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 21 | 25 | 21 | 19 | 17 |  |  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 18813 | 18813 | 18813 | 18813 | 18813 |
| 5°  | 23793 | 22456 | 18982 | 15297 | 14056 |
| 10° | 24024 | 24751 | 18855 | 12193 | 10656 |
| 15° | 18094 | 22979 | 18727 | 10326 | 9011  |
| 20° | 12607 | 18594 | 18488 | 9030  | 8184  |
| 25° | 9613  | 14300 | 18081 | 8308  | 7677  |
| 30° | 8316  | 11361 | 17429 | 7798  | 7269  |
| 35° | 7716  | 9592  | 16679 | 7428  | 6980  |
| 40° | 7305  | 8604  | 15625 | 7078  | 6884  |
| 45° | 7062  | 7963  | 14285 | 6803  | 6839  |
| 50° | 6941  | 7457  | 12698 | 6553  | 6804  |
| 55° | 6683  | 7084  | 11142 | 6317  | 6835  |
| 60° | 6443  | 6687  | 9604  | 6095  | 6723  |
| 65° | 6052  | 6311  | 8283  | 5855  | 6589  |
| 70° | 5589  | 5832  | 7046  | 5463  | 6203  |
| 75° | 5061  | 5228  | 6039  | 5078  | 5669  |
| 80° | 4172  | 4575  | 4779  | 4426  | 4779  |
| 85° | 3310  | 3705  | 3507  | 3754  | 3804  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 16309 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.2  | 3.2       |
| 10°-20°   | 411.1  | 8.0       |
| 20°-30°   | 486.7  | 9.5       |
| 30°-40°   | 489.4  | 9.6       |
| 40°-50°   | 449.0  | 8.8       |
| 50°-60°   | 370.6  | 7.2       |
| 60°-70°   | 262.2  | 5.1       |
| 70°-80°   | 139.9  | 2.7       |
| 80°-90°   | 37.2   | 0.7       |
| 90°-100°  | 166.0  | 3.2       |
| 100°-110° | 486.1  | 9.5       |
| 110°-120° | 474.7  | 9.3       |
| 120°-130° | 378.0  | 7.4       |
| 130°-140° | 298.3  | 5.8       |
| 140°-150° | 222.5  | 4.4       |
| 150°-160° | 155.1  | 3.0       |
| 160°-170° | 91.1   | 1.8       |
| 170°-180° | 29.6   | 0.6       |
| 0°-30°    | 1063.1 | 20.8      |
| 0°-40°    | 1552.5 | 30.4      |
| 0°-60°    | 2372.1 | 46.4      |
| 0°-90°    | 2811.4 | 55.0      |
| 90°-120°  | 1126.8 | 22.0      |
| 90°-150°  | 2025.5 | 39.6      |
| 90°-180°  | 2301.0 | 45.0      |
| 0°-180°   | 5112.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1748 | 1748 | 1748 | 1748 | 1748 |      |
| 5°   | 2202 | 2078 | 1757 | 1416 | 1301 | 210  |
| 15°  | 1624 | 2062 | 1680 | 927  | 809  | 449  |
| 25°  | 809  | 1204 | 1522 | 700  | 646  | 382  |
| 35°  | 587  | 730  | 1269 | 565  | 531  | 369  |
| 45°  | 464  | 523  | 938  | 447  | 449  | 359  |
| 55°  | 356  | 378  | 594  | 337  | 364  | 319  |
| 65°  | 238  | 248  | 325  | 230  | 259  | 236  |
| 75°  | 122  | 126  | 145  | 122  | 136  | 128  |
| 85°  | 27   | 30   | 28   | 30   | 31   | 30   |
| 90°  | 18   | 16   | 1    | 16   | 18   | 11   |
| 95°  | 72   | 367  | 21   | 367  | 72   | 117  |
| 105° | 788  | 498  | 72   | 498  | 788  | 786  |
| 115° | 958  | 381  | 127  | 381  | 958  | 934  |
| 125° | 756  | 356  | 176  | 356  | 756  | 684  |
| 135° | 612  | 350  | 207  | 350  | 612  | 475  |
| 145° | 479  | 346  | 236  | 346  | 479  | 304  |
| 155° | 397  | 335  | 268  | 335  | 397  | 185  |
| 165° | 346  | 321  | 293  | 321  | 346  | 99   |
| 175° | 312  | 308  | 305  | 308  | 312  | 30   |
| 180° | 306  | 306  | 306  | 306  | 306  |      |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 |
| 2.5°   | 1970.1 | 1968.0 | 1966.0 | 1955.9 | 1945.7 | 1940.9 | 1936.0 | 1921.4 | 1906.8 | 1890.6 | 1874.4 |
| 5°     | 2202.0 | 2207.7 | 2213.4 | 2206.9 | 2200.4 | 2180.5 | 2160.7 | 2134.3 | 2107.9 | 2078.3 | 2048.7 |
| 7.5°   | 2309.1 | 2312.3 | 2315.6 | 2311.5 | 2307.5 | 2302.2 | 2296.9 | 2273.4 | 2249.9 | 2219.5 | 2189.0 |
| 10°    | 2198.0 | 2205.3 | 2212.6 | 2228.4 | 2244.2 | 2262.0 | 2279.9 | 2276.6 | 2273.4 | 2264.5 | 2255.6 |
| 12.5°  | 1953.8 | 1962.8 | 1971.7 | 2003.3 | 2034.9 | 2075.5 | 2116.1 | 2150.9 | 2185.8 | 2210.1 | 2234.5 |
| 15°    | 1623.7 | 1648.5 | 1673.2 | 1702.0 | 1730.8 | 1790.4 | 1850.0 | 1923.4 | 1996.8 | 2062.1 | 2127.4 |
| 17.5°  | 1337.4 | 1346.8 | 1356.1 | 1386.9 | 1417.7 | 1492.8 | 1567.8 | 1652.5 | 1737.3 | 1845.6 | 1953.8 |
| 20°    | 1100.6 | 1109.1 | 1117.6 | 1158.2 | 1198.7 | 1257.5 | 1316.3 | 1411.6 | 1506.9 | 1623.3 | 1739.7 |
| 22.5°  | 924.6  | 938.0  | 951.4  | 974.1  | 996.8  | 1053.2 | 1109.5 | 1194.3 | 1279.0 | 1407.6 | 1536.1 |
| 25°    | 809.4  | 819.2  | 828.9  | 842.7  | 856.5  | 901.5  | 946.5  | 1016.3 | 1086.0 | 1204.0 | 1322.0 |
| 27.5°  | 730.8  | 734.8  | 738.9  | 752.7  | 766.5  | 795.6  | 824.8  | 884.9  | 944.9  | 1045.0 | 1145.2 |
| 30°    | 669.1  | 672.0  | 674.8  | 687.0  | 699.1  | 719.0  | 738.9  | 782.3  | 825.7  | 914.1  | 1002.5 |
| 32.5°  | 626.1  | 628.2  | 630.2  | 639.5  | 648.8  | 663.0  | 677.2  | 708.9  | 740.5  | 813.5  | 886.5  |
| 35°    | 587.2  | 588.4  | 589.6  | 596.5  | 603.4  | 614.0  | 624.5  | 648.4  | 672.4  | 730.0  | 787.5  |
| 37.5°  | 553.1  | 554.8  | 556.4  | 560.4  | 564.5  | 573.8  | 583.2  | 602.2  | 621.3  | 665.5  | 709.7  |
| 40°    | 519.9  | 522.7  | 525.6  | 528.4  | 531.2  | 538.9  | 546.7  | 561.3  | 575.9  | 612.3  | 648.8  |
| 42.5°  | 491.5  | 494.3  | 497.2  | 498.4  | 499.6  | 504.1  | 508.5  | 521.9  | 535.3  | 562.5  | 589.6  |
| 45°    | 463.9  | 465.1  | 466.4  | 467.6  | 468.8  | 472.4  | 476.1  | 487.9  | 499.6  | 523.1  | 546.7  |
| 47.5°  | 438.8  | 438.8  | 438.8  | 439.6  | 440.4  | 443.6  | 446.9  | 455.4  | 463.9  | 482.2  | 500.4  |
| 50°    | 414.5  | 414.5  | 414.5  | 413.2  | 412.0  | 414.0  | 416.1  | 422.6  | 429.1  | 445.3  | 461.5  |
| 52.5°  | 385.3  | 385.3  | 385.3  | 385.7  | 386.1  | 386.1  | 386.1  | 391.7  | 397.4  | 412.0  | 426.6  |
| 55°    | 356.1  | 357.7  | 359.3  | 358.1  | 356.9  | 357.7  | 358.5  | 362.1  | 365.8  | 377.5  | 389.3  |
| 57.5°  | 326.9  | 327.7  | 328.5  | 328.1  | 327.7  | 328.1  | 328.5  | 331.7  | 335.0  | 343.9  | 352.8  |
| 60°    | 299.3  | 299.3  | 299.3  | 298.5  | 297.7  | 298.5  | 299.3  | 300.9  | 302.5  | 310.6  | 318.7  |
| 62.5°  | 268.5  | 268.9  | 269.3  | 269.7  | 270.1  | 269.3  | 268.5  | 270.5  | 272.5  | 278.6  | 284.7  |
| 65°    | 237.6  | 238.0  | 238.5  | 239.7  | 240.9  | 240.1  | 239.3  | 241.3  | 243.3  | 247.8  | 252.2  |
| 67.5°  | 210.1  | 209.3  | 208.4  | 208.8  | 209.3  | 210.5  | 211.7  | 212.1  | 212.5  | 217.4  | 222.2  |
| 70°    | 177.6  | 178.4  | 179.2  | 178.8  | 178.4  | 178.8  | 179.2  | 180.5  | 181.7  | 185.3  | 189.0  |
| 72.5°  | 148.4  | 148.8  | 149.2  | 149.2  | 149.2  | 150.0  | 150.9  | 152.1  | 153.3  | 155.3  | 157.3  |
| 75°    | 121.7  | 121.7  | 121.7  | 122.5  | 123.3  | 123.7  | 124.1  | 124.1  | 124.1  | 125.7  | 127.3  |
| 77.5°  | 92.5   | 94.5   | 96.5   | 96.1   | 95.7   | 96.5   | 97.3   | 98.5   | 99.8   | 100.6  | 101.4  |
| 80°    | 67.3   | 67.3   | 67.3   | 67.7   | 68.1   | 69.3   | 70.6   | 71.4   | 72.2   | 73.8   | 75.4   |
| 82.5°  | 43.0   | 43.4   | 43.8   | 45.0   | 46.2   | 47.0   | 47.9   | 49.1   | 50.3   | 50.3   | 50.3   |
| 85°    | 26.8   | 26.0   | 25.1   | 26.0   | 26.8   | 27.6   | 28.4   | 28.8   | 29.2   | 30.0   | 30.8   |
| 87.5°  | 13.0   | 13.0   | 13.0   | 13.0   | 13.0   | 13.4   | 13.8   | 13.8   | 13.8   | 13.8   | 13.8   |
| 90°    | 18.0   | 18.6   | 18.0   | 17.3   | 18.0   | 16.7   | 16.1   | 15.5   | 14.9   | 15.5   | 13.6   |
| 92.5°  | 32.8   | 34.1   | 33.4   | 35.9   | 37.2   | 41.5   | 47.7   | 61.3   | 86.1   | 115.2  | 127.6  |
| 95°    | 71.8   | 74.3   | 78.7   | 84.2   | 96.0   | 118.3  | 151.1  | 223.0  | 297.9  | 367.3  | 327.0  |
| 97.5°  | 147.4  | 154.2  | 169.1  | 192.6  | 234.1  | 304.7  | 386.5  | 512.2  | 584.0  | 564.8  | 421.8  |
| 100°   | 388.3  | 387.7  | 411.9  | 457.1  | 519.6  | 607.6  | 680.0  | 730.2  | 708.5  | 586.5  | 396.4  |
| 102.5° | 615.0  | 633.0  | 652.2  | 685.6  | 730.8  | 778.5  | 813.2  | 802.7  | 714.7  | 546.3  | 359.2  |
| 105°   | 787.8  | 790.9  | 810.7  | 834.3  | 862.7  | 878.8  | 867.1  | 805.1  | 675.7  | 498.0  | 330.1  |
| 107.5° | 900.5  | 907.3  | 915.4  | 926.5  | 930.3  | 913.5  | 865.2  | 768.0  | 620.0  | 455.2  | 309.1  |
| 110°   | 964.9  | 966.2  | 967.4  | 962.5  | 945.1  | 901.8  | 823.7  | 709.8  | 567.9  | 419.9  | 297.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 977.9 | 977.3 | 971.1 | 953.2 | 917.9 | 859.0 | 769.2 | 652.2 | 522.7 | 396.4 | 291.7 |
| 115°   | 958.1 | 955.0 | 942.6 | 915.4 | 868.9 | 801.4 | 710.4 | 602.6 | 488.0 | 380.9 | 291.1 |
| 117.5° | 914.8 | 910.4 | 891.9 | 861.5 | 813.2 | 743.2 | 659.6 | 564.2 | 465.1 | 370.4 | 291.7 |
| 120°   | 857.8 | 854.1 | 839.2 | 804.5 | 755.6 | 693.0 | 618.7 | 535.1 | 447.8 | 363.6 | 294.2 |
| 122.5° | 804.5 | 799.6 | 782.8 | 752.5 | 710.4 | 653.4 | 585.9 | 512.2 | 433.5 | 359.2 | 298.5 |
| 125°   | 755.6 | 751.3 | 735.8 | 708.5 | 668.9 | 619.3 | 559.9 | 492.4 | 421.8 | 355.5 | 302.9 |
| 127.5° | 713.5 | 709.8 | 695.5 | 672.0 | 636.1 | 590.2 | 535.7 | 474.4 | 410.6 | 353.6 | 307.8 |
| 130°   | 678.8 | 673.8 | 660.8 | 638.5 | 605.7 | 563.6 | 513.4 | 457.7 | 402.0 | 351.8 | 312.8 |
| 132.5° | 644.7 | 641.6 | 630.5 | 608.2 | 577.8 | 538.2 | 492.4 | 442.2 | 393.9 | 351.2 | 316.5 |
| 135°   | 612.5 | 608.2 | 597.0 | 578.5 | 548.1 | 512.8 | 472.6 | 428.6 | 387.1 | 350.5 | 320.2 |
| 137.5° | 578.5 | 574.8 | 565.5 | 546.3 | 520.2 | 488.7 | 452.7 | 415.6 | 380.9 | 349.3 | 322.7 |
| 140°   | 542.5 | 543.2 | 533.3 | 515.9 | 492.4 | 465.7 | 436.0 | 404.4 | 375.3 | 348.7 | 325.2 |
| 142.5° | 509.1 | 509.7 | 501.0 | 486.2 | 467.0 | 444.7 | 419.9 | 393.9 | 370.4 | 347.5 | 327.0 |
| 145°   | 478.8 | 477.5 | 472.6 | 459.6 | 444.1 | 426.1 | 406.3 | 385.9 | 366.0 | 346.2 | 327.6 |
| 147.5° | 452.7 | 452.1 | 447.2 | 437.9 | 425.5 | 412.5 | 395.8 | 379.0 | 361.7 | 344.4 | 327.6 |
| 150°   | 430.4 | 430.4 | 426.7 | 419.9 | 410.6 | 398.9 | 385.9 | 371.6 | 357.4 | 341.9 | 327.6 |
| 152.5° | 411.9 | 411.9 | 410.0 | 403.8 | 397.0 | 387.7 | 376.6 | 364.8 | 352.4 | 338.8 | 325.8 |
| 155°   | 397.0 | 396.4 | 395.1 | 390.2 | 384.6 | 377.2 | 367.9 | 358.0 | 347.5 | 335.1 | 324.5 |
| 157.5° | 382.8 | 382.8 | 381.5 | 377.8 | 372.8 | 366.7 | 359.2 | 350.5 | 341.9 | 332.0 | 322.7 |
| 160°   | 369.1 | 369.7 | 369.7 | 366.0 | 361.7 | 357.4 | 351.2 | 344.4 | 336.3 | 328.3 | 321.4 |
| 162.5° | 356.7 | 357.4 | 357.4 | 354.3 | 351.8 | 348.1 | 342.5 | 336.9 | 330.7 | 324.5 | 319.0 |
| 165°   | 346.2 | 346.2 | 346.8 | 344.4 | 341.9 | 338.8 | 334.4 | 330.7 | 325.8 | 320.8 | 316.5 |
| 167.5° | 335.7 | 335.7 | 336.3 | 334.4 | 333.2 | 330.7 | 328.3 | 325.2 | 320.8 | 317.1 | 314.0 |
| 170°   | 326.4 | 326.4 | 327.0 | 325.8 | 325.2 | 323.9 | 321.4 | 319.6 | 316.5 | 313.4 | 311.5 |
| 172.5° | 317.7 | 318.3 | 319.6 | 318.3 | 318.3 | 317.7 | 315.9 | 314.6 | 312.1 | 310.3 | 309.7 |
| 175°   | 311.5 | 312.1 | 312.8 | 312.1 | 312.1 | 312.1 | 310.9 | 310.3 | 309.1 | 307.8 | 307.8 |
| 177.5° | 307.2 | 307.2 | 308.4 | 307.8 | 308.4 | 308.4 | 307.8 | 307.2 | 306.6 | 306.0 | 306.6 |
| 180°   | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 |
| 2.5°   | 1869.5 | 1864.6 | 1846.8 | 1828.9 | 1808.7 | 1788.4 | 1773.4 | 1758.4 | 1736.1 | 1713.8 | 1695.5 |
| 5°     | 2026.0 | 2003.3 | 1965.6 | 1927.9 | 1876.8 | 1825.7 | 1791.2 | 1756.8 | 1710.5 | 1664.3 | 1627.4 |
| 7.5°   | 2150.1 | 2111.2 | 2058.5 | 2005.7 | 1938.8 | 1871.9 | 1808.7 | 1745.4 | 1674.8 | 1604.3 | 1546.7 |
| 10°    | 2229.2 | 2202.8 | 2142.0 | 2081.2 | 1991.6 | 1901.9 | 1813.5 | 1725.1 | 1634.3 | 1543.4 | 1467.2 |
| 12.5°  | 2236.9 | 2239.3 | 2183.4 | 2127.4 | 2026.0 | 1924.6 | 1817.2 | 1709.7 | 1595.4 | 1481.0 | 1392.2 |
| 15°    | 2169.2 | 2210.9 | 2180.1 | 2149.3 | 2047.1 | 1944.9 | 1812.7 | 1680.5 | 1548.7 | 1416.9 | 1314.3 |
| 17.5°  | 2043.5 | 2133.1 | 2137.5 | 2142.0 | 2039.8 | 1937.6 | 1791.2 | 1644.8 | 1495.6 | 1346.4 | 1238.5 |
| 20°    | 1871.9 | 2004.1 | 2049.5 | 2095.0 | 2011.8 | 1928.7 | 1771.4 | 1614.0 | 1446.9 | 1279.9 | 1166.7 |
| 22.5°  | 1696.7 | 1857.3 | 1940.5 | 2023.6 | 1962.0 | 1900.3 | 1732.8 | 1565.3 | 1388.9 | 1212.5 | 1097.8 |
| 25°    | 1497.2 | 1672.4 | 1800.1 | 1927.9 | 1890.2 | 1852.5 | 1687.4 | 1522.4 | 1334.6 | 1146.8 | 1029.6 |
| 27.5°  | 1323.2 | 1501.3 | 1655.4 | 1809.5 | 1801.4 | 1793.3 | 1629.4 | 1465.6 | 1273.4 | 1081.1 | 968.0  |
| 30°    | 1168.3 | 1334.2 | 1506.5 | 1678.9 | 1698.8 | 1718.6 | 1560.5 | 1402.3 | 1209.7 | 1017.1 | 908.0  |
| 32.5°  | 1031.3 | 1176.0 | 1361.0 | 1545.9 | 1584.8 | 1623.7 | 1481.0 | 1338.2 | 1147.6 | 957.0  | 852.0  |
| 35°    | 918.9  | 1050.3 | 1235.2 | 1420.2 | 1468.8 | 1517.5 | 1393.4 | 1269.3 | 1083.6 | 897.8  | 797.7  |
| 37.5°  | 819.6  | 929.5  | 1109.9 | 1290.4 | 1350.0 | 1409.6 | 1298.5 | 1187.4 | 1013.4 | 839.4  | 747.4  |
| 40°    | 737.3  | 825.7  | 991.5  | 1157.4 | 1226.3 | 1295.3 | 1203.6 | 1112.0 | 946.9  | 781.9  | 697.1  |
| 42.5°  | 668.3  | 747.0  | 897.4  | 1047.9 | 1114.0 | 1180.1 | 1102.6 | 1025.2 | 878.4  | 731.6  | 654.1  |
| 45°    | 609.5  | 672.4  | 809.0  | 945.7  | 1008.6 | 1071.4 | 1004.9 | 938.4  | 809.0  | 679.7  | 607.5  |
| 47.5°  | 554.4  | 608.3  | 725.1  | 841.9  | 897.8  | 953.8  | 901.9  | 850.0  | 740.5  | 631.0  | 565.7  |
| 50°    | 504.9  | 548.3  | 650.5  | 752.7  | 801.3  | 850.0  | 804.2  | 758.3  | 668.3  | 578.3  | 521.5  |
| 52.5°  | 461.9  | 497.2  | 582.7  | 668.3  | 710.1  | 751.9  | 712.5  | 673.2  | 601.8  | 530.4  | 481.0  |
| 55°    | 419.3  | 449.3  | 523.5  | 597.8  | 626.1  | 654.5  | 624.1  | 593.7  | 536.1  | 478.5  | 436.8  |
| 57.5°  | 379.6  | 406.3  | 467.2  | 528.0  | 549.9  | 571.8  | 544.2  | 516.6  | 473.3  | 429.9  | 395.0  |
| 60°    | 340.6  | 362.5  | 413.2  | 463.9  | 477.3  | 490.7  | 468.4  | 446.1  | 415.7  | 385.3  | 354.0  |
| 62.5°  | 304.6  | 324.4  | 362.1  | 399.9  | 408.8  | 417.7  | 400.7  | 383.6  | 360.5  | 337.4  | 313.1  |
| 65°    | 267.2  | 282.2  | 313.1  | 343.9  | 349.6  | 355.2  | 340.2  | 325.2  | 307.8  | 290.4  | 272.5  |
| 67.5°  | 232.8  | 243.3  | 268.5  | 293.6  | 294.0  | 294.4  | 282.2  | 270.1  | 260.3  | 250.6  | 236.4  |
| 70°    | 199.1  | 209.3  | 225.9  | 242.5  | 242.9  | 243.3  | 233.6  | 223.9  | 216.6  | 209.3  | 198.7  |
| 72.5°  | 164.6  | 171.9  | 184.5  | 197.1  | 196.3  | 195.5  | 189.4  | 183.3  | 177.6  | 171.9  | 164.2  |
| 75°    | 133.4  | 139.5  | 148.0  | 156.5  | 154.1  | 151.7  | 148.4  | 145.2  | 140.3  | 135.4  | 130.6  |
| 77.5°  | 105.0  | 108.7  | 113.5  | 118.4  | 116.8  | 115.2  | 112.3  | 109.5  | 105.8  | 102.2  | 100.2  |
| 80°    | 77.1   | 78.7   | 81.9   | 85.2   | 84.4   | 83.5   | 80.3   | 77.1   | 76.2   | 75.4   | 72.6   |
| 82.5°  | 52.3   | 54.3   | 55.2   | 56.0   | 55.6   | 55.2   | 52.7   | 50.3   | 49.5   | 48.7   | 48.3   |
| 85°    | 31.2   | 31.6   | 32.0   | 32.4   | 31.2   | 30.0   | 29.2   | 28.4   | 28.4   | 28.4   | 28.0   |
| 87.5°  | 14.2   | 14.6   | 14.6   | 14.6   | 14.2   | 13.8   | 13.0   | 12.2   | 12.6   | 13.0   | 13.0   |
| 90°    | 11.8   | 9.9    | 8.1    | 6.8    | 5.6    | 3.7    | 2.5    | 1.2    | 2.5    | 3.7    | 5.6    |
| 92.5°  | 95.4   | 62.6   | 42.7   | 31.6   | 25.4   | 19.8   | 13.6   | 9.3    | 13.6   | 19.8   | 25.4   |
| 95°    | 225.4  | 133.2  | 80.5   | 56.4   | 40.3   | 29.7   | 22.9   | 21.1   | 22.9   | 29.7   | 40.3   |
| 97.5°  | 250.8  | 143.7  | 91.7   | 65.0   | 48.9   | 39.6   | 34.1   | 33.4   | 34.1   | 39.6   | 48.9   |
| 100°   | 233.5  | 141.8  | 98.5   | 74.3   | 59.5   | 50.8   | 46.5   | 45.8   | 46.5   | 50.8   | 59.5   |
| 102.5° | 218.6  | 144.3  | 106.5  | 84.8   | 71.8   | 63.8   | 60.1   | 58.8   | 60.1   | 63.8   | 71.8   |
| 105°   | 213.1  | 149.3  | 115.8  | 96.6   | 84.8   | 77.4   | 73.7   | 71.8   | 73.7   | 77.4   | 84.8   |
| 107.5° | 211.8  | 157.3  | 127.6  | 109.6  | 98.5   | 91.0   | 87.3   | 85.5   | 87.3   | 91.0   | 98.5   |
| 110°   | 214.9  | 167.8  | 140.0  | 122.6  | 112.1  | 105.3  | 102.2  | 100.3  | 102.2  | 105.3  | 112.1  |





TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 221.1 | 178.4 | 153.0 | 136.3 | 125.7 | 118.9 | 115.8 | 114.0 | 115.8 | 118.9 | 125.7 |
| 115°   | 227.9 | 190.1 | 166.6 | 149.9 | 139.4 | 133.2 | 129.4 | 127.0 | 129.4 | 133.2 | 139.4 |
| 117.5° | 236.6 | 202.5 | 179.0 | 163.5 | 151.7 | 146.2 | 143.1 | 140.0 | 143.1 | 146.2 | 151.7 |
| 120°   | 246.5 | 214.3 | 192.0 | 176.5 | 164.7 | 158.6 | 155.5 | 153.6 | 155.5 | 158.6 | 164.7 |
| 122.5° | 255.8 | 226.7 | 205.0 | 188.3 | 177.1 | 170.3 | 167.2 | 165.4 | 167.2 | 170.3 | 177.1 |
| 125°   | 265.7 | 238.4 | 216.8 | 200.0 | 188.3 | 181.5 | 177.8 | 176.5 | 177.8 | 181.5 | 188.3 |
| 127.5° | 273.7 | 249.0 | 227.9 | 211.2 | 198.2 | 191.4 | 187.0 | 185.2 | 187.0 | 191.4 | 198.2 |
| 130°   | 281.8 | 258.3 | 237.8 | 221.1 | 208.1 | 200.7 | 195.1 | 193.2 | 195.1 | 200.7 | 208.1 |
| 132.5° | 289.2 | 266.3 | 246.5 | 230.4 | 217.4 | 208.1 | 201.9 | 199.4 | 201.9 | 208.1 | 217.4 |
| 135°   | 295.4 | 274.4 | 255.2 | 238.4 | 225.4 | 216.2 | 209.3 | 206.9 | 209.3 | 216.2 | 225.4 |
| 137.5° | 300.4 | 279.9 | 261.4 | 245.9 | 232.9 | 223.0 | 216.2 | 213.7 | 216.2 | 223.0 | 232.9 |
| 140°   | 304.1 | 285.5 | 267.6 | 252.1 | 239.7 | 229.8 | 223.6 | 220.5 | 223.6 | 229.8 | 239.7 |
| 142.5° | 307.8 | 289.9 | 272.5 | 258.3 | 245.9 | 237.2 | 230.4 | 227.9 | 230.4 | 237.2 | 245.9 |
| 145°   | 310.3 | 293.6 | 277.5 | 263.2 | 252.7 | 243.4 | 237.8 | 236.0 | 237.8 | 243.4 | 252.7 |
| 147.5° | 312.1 | 296.7 | 281.8 | 269.4 | 258.9 | 250.8 | 245.3 | 244.0 | 245.3 | 250.8 | 258.9 |
| 150°   | 312.8 | 299.8 | 285.5 | 274.4 | 265.7 | 257.6 | 252.7 | 252.1 | 252.7 | 257.6 | 265.7 |
| 152.5° | 314.0 | 301.6 | 289.9 | 279.3 | 271.9 | 265.1 | 260.1 | 260.1 | 260.1 | 265.1 | 271.9 |
| 155°   | 314.0 | 304.1 | 293.6 | 284.9 | 278.1 | 271.9 | 268.2 | 268.2 | 268.2 | 271.9 | 278.1 |
| 157.5° | 314.6 | 305.3 | 296.7 | 289.9 | 283.7 | 278.1 | 275.0 | 274.4 | 275.0 | 278.1 | 283.7 |
| 160°   | 314.6 | 307.2 | 299.8 | 293.6 | 289.2 | 284.3 | 281.8 | 281.8 | 281.8 | 284.3 | 289.2 |
| 162.5° | 314.0 | 307.8 | 301.6 | 296.7 | 292.9 | 289.2 | 287.4 | 287.4 | 287.4 | 289.2 | 292.9 |
| 165°   | 312.8 | 308.4 | 303.5 | 299.1 | 296.7 | 293.6 | 292.3 | 292.9 | 292.3 | 293.6 | 296.7 |
| 167.5° | 312.1 | 308.4 | 304.7 | 301.6 | 299.8 | 297.3 | 296.7 | 297.3 | 296.7 | 297.3 | 299.8 |
| 170°   | 310.3 | 307.8 | 304.7 | 303.5 | 302.2 | 300.4 | 299.8 | 301.0 | 299.8 | 300.4 | 302.2 |
| 172.5° | 309.7 | 307.8 | 305.3 | 304.7 | 304.1 | 302.9 | 302.9 | 303.5 | 302.9 | 302.9 | 304.1 |
| 175°   | 308.4 | 307.2 | 306.0 | 305.3 | 305.3 | 304.1 | 304.7 | 305.3 | 304.7 | 304.1 | 305.3 |
| 177.5° | 307.8 | 306.6 | 306.0 | 306.0 | 306.0 | 305.3 | 306.0 | 306.6 | 306.0 | 305.3 | 306.0 |
| 180°   | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 | 1747.8 |
| 2.5°   | 1677.3 | 1661.5 | 1645.6 | 1633.5 | 1621.3 | 1600.6 | 1579.9 | 1575.1 | 1570.2 | 1563.3 | 1556.4 |
| 5°     | 1590.5 | 1551.6 | 1512.6 | 1477.7 | 1442.9 | 1415.7 | 1388.5 | 1370.7 | 1352.8 | 1339.9 | 1326.9 |
| 7.5°   | 1489.1 | 1430.7 | 1372.3 | 1330.9 | 1289.6 | 1250.2 | 1210.9 | 1198.3 | 1185.8 | 1168.7 | 1151.7 |
| 10°    | 1391.0 | 1326.5 | 1262.0 | 1208.1 | 1154.1 | 1115.6 | 1077.1 | 1061.7 | 1046.3 | 1024.8 | 1003.3 |
| 12.5°  | 1303.4 | 1232.8 | 1162.2 | 1107.9 | 1053.6 | 1016.3 | 978.9  | 956.6  | 934.3  | 922.2  | 910.0  |
| 15°    | 1211.7 | 1136.3 | 1060.9 | 1010.6 | 960.3  | 926.6  | 893.0  | 873.5  | 854.0  | 842.3  | 830.5  |
| 17.5°  | 1130.6 | 1056.0 | 981.4  | 933.1  | 884.9  | 854.0  | 823.2  | 806.2  | 789.2  | 780.2  | 771.3  |
| 20°    | 1053.6 | 980.6  | 907.6  | 860.5  | 813.5  | 788.3  | 763.2  | 752.3  | 741.3  | 734.0  | 726.7  |
| 22.5°  | 983.0  | 911.2  | 839.4  | 799.3  | 759.2  | 738.9  | 718.6  | 710.9  | 703.2  | 697.1  | 691.0  |
| 25°    | 912.4  | 848.4  | 784.3  | 750.2  | 716.2  | 699.5  | 682.9  | 675.2  | 667.5  | 661.4  | 655.3  |
| 27.5°  | 854.9  | 793.6  | 732.4  | 703.2  | 674.0  | 661.0  | 648.0  | 642.0  | 635.9  | 630.2  | 624.5  |
| 30°    | 798.9  | 744.1  | 689.4  | 664.3  | 639.1  | 627.4  | 615.6  | 609.5  | 603.4  | 598.2  | 592.9  |
| 32.5°  | 747.0  | 699.9  | 652.9  | 629.8  | 606.7  | 596.9  | 587.2  | 579.9  | 572.6  | 568.6  | 564.5  |
| 35°    | 697.5  | 655.3  | 613.2  | 594.1  | 575.0  | 565.3  | 555.6  | 549.5  | 543.4  | 540.2  | 536.9  |
| 37.5°  | 655.3  | 617.6  | 579.9  | 561.7  | 543.4  | 534.1  | 524.8  | 519.5  | 514.2  | 513.0  | 511.8  |
| 40°    | 612.3  | 579.9  | 547.5  | 529.6  | 511.8  | 503.7  | 495.6  | 492.3  | 489.1  | 488.3  | 487.4  |
| 42.5°  | 576.7  | 545.0  | 513.4  | 497.2  | 481.0  | 474.1  | 467.2  | 465.5  | 463.9  | 465.1  | 466.4  |
| 45°    | 535.3  | 508.9  | 482.6  | 467.6  | 452.6  | 446.9  | 441.2  | 440.0  | 438.8  | 441.2  | 443.6  |
| 47.5°  | 500.4  | 476.1  | 451.8  | 437.6  | 423.4  | 419.3  | 415.3  | 414.9  | 414.5  | 417.7  | 420.9  |
| 50°    | 464.7  | 441.2  | 417.7  | 406.3  | 395.0  | 391.3  | 387.7  | 388.9  | 390.1  | 395.4  | 400.7  |
| 52.5°  | 431.5  | 409.6  | 387.7  | 377.1  | 366.6  | 364.2  | 361.7  | 364.6  | 367.4  | 373.1  | 378.8  |
| 55°    | 395.0  | 375.1  | 355.2  | 347.1  | 339.0  | 336.6  | 334.2  | 339.8  | 345.5  | 350.8  | 356.1  |
| 57.5°  | 360.1  | 342.7  | 325.2  | 317.9  | 310.6  | 310.2  | 309.8  | 315.1  | 320.4  | 326.0  | 331.7  |
| 60°    | 322.8  | 308.2  | 293.6  | 287.9  | 282.2  | 283.1  | 283.9  | 290.0  | 296.0  | 300.5  | 305.0  |
| 62.5°  | 288.7  | 276.6  | 264.4  | 259.1  | 253.9  | 255.9  | 257.9  | 264.0  | 270.1  | 275.4  | 280.6  |
| 65°    | 254.7  | 244.5  | 234.4  | 230.7  | 227.1  | 229.9  | 232.8  | 238.0  | 243.3  | 247.0  | 250.6  |
| 67.5°  | 222.2  | 213.7  | 205.2  | 202.4  | 199.5  | 202.4  | 205.2  | 210.5  | 215.7  | 219.4  | 223.0  |
| 70°    | 188.2  | 181.3  | 174.4  | 172.3  | 170.3  | 173.6  | 176.8  | 181.3  | 185.7  | 189.4  | 193.0  |
| 72.5°  | 156.5  | 151.3  | 146.0  | 145.6  | 145.2  | 148.0  | 150.9  | 155.3  | 159.8  | 162.2  | 164.6  |
| 75°    | 125.7  | 122.9  | 120.0  | 119.6  | 119.2  | 122.1  | 124.9  | 127.3  | 129.8  | 131.8  | 133.8  |
| 77.5°  | 98.1   | 95.7   | 93.3   | 93.7   | 94.1   | 96.1   | 98.1   | 100.6  | 103.0  | 104.2  | 105.4  |
| 80°    | 69.8   | 68.9   | 68.1   | 68.9   | 69.8   | 71.4   | 73.0   | 74.6   | 76.2   | 77.1   | 77.9   |
| 82.5°  | 47.9   | 47.0   | 46.2   | 47.4   | 48.7   | 49.9   | 51.1   | 52.3   | 53.5   | 53.9   | 54.3   |
| 85°    | 27.6   | 28.8   | 30.0   | 30.0   | 30.0   | 30.4   | 30.8   | 31.2   | 31.6   | 31.2   | 30.8   |
| 87.5°  | 13.0   | 13.4   | 13.8   | 13.8   | 13.8   | 14.2   | 14.6   | 14.6   | 14.6   | 14.2   | 13.8   |
| 90°    | 6.8    | 8.1    | 9.9    | 11.8   | 13.6   | 15.5   | 14.9   | 15.5   | 16.1   | 16.7   | 18.0   |
| 92.5°  | 31.6   | 42.7   | 62.6   | 95.4   | 127.6  | 115.2  | 86.1   | 61.3   | 47.7   | 41.5   | 37.2   |
| 95°    | 56.4   | 80.5   | 133.2  | 225.4  | 327.0  | 367.3  | 297.9  | 223.0  | 151.1  | 118.3  | 96.0   |
| 97.5°  | 65.0   | 91.7   | 143.7  | 250.8  | 421.8  | 564.8  | 584.0  | 512.2  | 386.5  | 304.7  | 234.1  |
| 100°   | 74.3   | 98.5   | 141.8  | 233.5  | 396.4  | 586.5  | 708.5  | 730.2  | 680.0  | 607.6  | 519.6  |
| 102.5° | 84.8   | 106.5  | 144.3  | 218.6  | 359.2  | 546.3  | 714.7  | 802.7  | 813.2  | 778.5  | 730.8  |
| 105°   | 96.6   | 115.8  | 149.3  | 213.1  | 330.1  | 498.0  | 675.7  | 805.1  | 867.1  | 878.8  | 862.7  |
| 107.5° | 109.6  | 127.6  | 157.3  | 211.8  | 309.1  | 455.2  | 620.0  | 768.0  | 865.2  | 913.5  | 930.3  |
| 110°   | 122.6  | 140.0  | 167.8  | 214.9  | 297.9  | 419.9  | 567.9  | 709.8  | 823.7  | 901.8  | 945.1  |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 136.3 | 153.0 | 178.4 | 221.1 | 291.7 | 396.4 | 522.7 | 652.2 | 769.2 | 859.0 | 917.9 |
| 115°   | 149.9 | 166.6 | 190.1 | 227.9 | 291.1 | 380.9 | 488.0 | 602.6 | 710.4 | 801.4 | 868.9 |
| 117.5° | 163.5 | 179.0 | 202.5 | 236.6 | 291.7 | 370.4 | 465.1 | 564.2 | 659.6 | 743.2 | 813.2 |
| 120°   | 176.5 | 192.0 | 214.3 | 246.5 | 294.2 | 363.6 | 447.8 | 535.1 | 618.7 | 693.0 | 755.6 |
| 122.5° | 188.3 | 205.0 | 226.7 | 255.8 | 298.5 | 359.2 | 433.5 | 512.2 | 585.9 | 653.4 | 710.4 |
| 125°   | 200.0 | 216.8 | 238.4 | 265.7 | 302.9 | 355.5 | 421.8 | 492.4 | 559.9 | 619.3 | 668.9 |
| 127.5° | 211.2 | 227.9 | 249.0 | 273.7 | 307.8 | 353.6 | 410.6 | 474.4 | 535.7 | 590.2 | 636.1 |
| 130°   | 221.1 | 237.8 | 258.3 | 281.8 | 312.8 | 351.8 | 402.0 | 457.7 | 513.4 | 563.6 | 605.7 |
| 132.5° | 230.4 | 246.5 | 266.3 | 289.2 | 316.5 | 351.2 | 393.9 | 442.2 | 492.4 | 538.2 | 577.8 |
| 135°   | 238.4 | 255.2 | 274.4 | 295.4 | 320.2 | 350.5 | 387.1 | 428.6 | 472.6 | 512.8 | 548.1 |
| 137.5° | 245.9 | 261.4 | 279.9 | 300.4 | 322.7 | 349.3 | 380.9 | 415.6 | 452.7 | 488.7 | 520.2 |
| 140°   | 252.1 | 267.6 | 285.5 | 304.1 | 325.2 | 348.7 | 375.3 | 404.4 | 436.0 | 465.7 | 492.4 |
| 142.5° | 258.3 | 272.5 | 289.9 | 307.8 | 327.0 | 347.5 | 370.4 | 393.9 | 419.9 | 444.7 | 467.0 |
| 145°   | 263.2 | 277.5 | 293.6 | 310.3 | 327.6 | 346.2 | 366.0 | 385.9 | 406.3 | 426.1 | 444.1 |
| 147.5° | 269.4 | 281.8 | 296.7 | 312.1 | 327.6 | 344.4 | 361.7 | 379.0 | 395.8 | 412.5 | 425.5 |
| 150°   | 274.4 | 285.5 | 299.8 | 312.8 | 327.6 | 341.9 | 357.4 | 371.6 | 385.9 | 398.9 | 410.6 |
| 152.5° | 279.3 | 289.9 | 301.6 | 314.0 | 325.8 | 338.8 | 352.4 | 364.8 | 376.6 | 387.7 | 397.0 |
| 155°   | 284.9 | 293.6 | 304.1 | 314.0 | 324.5 | 335.1 | 347.5 | 358.0 | 367.9 | 377.2 | 384.6 |
| 157.5° | 289.9 | 296.7 | 305.3 | 314.6 | 322.7 | 332.0 | 341.9 | 350.5 | 359.2 | 366.7 | 372.8 |
| 160°   | 293.6 | 299.8 | 307.2 | 314.6 | 321.4 | 328.3 | 336.3 | 344.4 | 351.2 | 357.4 | 361.7 |
| 162.5° | 296.7 | 301.6 | 307.8 | 314.0 | 319.0 | 324.5 | 330.7 | 336.9 | 342.5 | 348.1 | 351.8 |
| 165°   | 299.1 | 303.5 | 308.4 | 312.8 | 316.5 | 320.8 | 325.8 | 330.7 | 334.4 | 338.8 | 341.9 |
| 167.5° | 301.6 | 304.7 | 308.4 | 312.1 | 314.0 | 317.1 | 320.8 | 325.2 | 328.3 | 330.7 | 333.2 |
| 170°   | 303.5 | 304.7 | 307.8 | 310.3 | 311.5 | 313.4 | 316.5 | 319.6 | 321.4 | 323.9 | 325.2 |
| 172.5° | 304.7 | 305.3 | 307.8 | 309.7 | 309.7 | 310.3 | 312.1 | 314.6 | 315.9 | 317.7 | 318.3 |
| 175°   | 305.3 | 306.0 | 307.2 | 308.4 | 307.8 | 307.8 | 309.1 | 310.3 | 310.9 | 312.1 | 312.1 |
| 177.5° | 306.0 | 306.0 | 306.6 | 307.8 | 306.6 | 306.0 | 306.6 | 307.2 | 307.8 | 308.4 | 308.4 |
| 180°   | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 | 306.0 |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 1747.8 | 1747.8 | 1747.8 | 1747.8 |
| 2.5°   | 1553.6 | 1550.7 | 1539.4 | 1528.0 |
| 5°     | 1317.2 | 1307.4 | 1304.2 | 1300.9 |
| 7.5°   | 1150.9 | 1150.1 | 1133.0 | 1116.0 |
| 10°    | 1004.5 | 1005.7 | 990.3  | 974.9  |
| 12.5°  | 899.9  | 889.7  | 888.5  | 887.3  |
| 15°    | 821.2  | 811.9  | 810.2  | 808.6  |
| 17.5°  | 765.6  | 760.0  | 758.3  | 756.7  |
| 20°    | 723.5  | 720.2  | 717.4  | 714.5  |
| 22.5°  | 687.0  | 682.9  | 680.5  | 678.0  |
| 25°    | 651.7  | 648.0  | 647.2  | 646.4  |
| 27.5°  | 620.1  | 615.6  | 615.6  | 615.6  |
| 30°    | 590.0  | 587.2  | 586.0  | 584.8  |
| 32.5°  | 562.1  | 559.6  | 559.6  | 559.6  |
| 35°    | 535.7  | 534.5  | 532.9  | 531.2  |
| 37.5°  | 511.8  | 511.8  | 511.0  | 510.2  |
| 40°    | 488.7  | 489.9  | 489.9  | 489.9  |
| 42.5°  | 467.6  | 468.8  | 468.8  | 468.8  |
| 45°    | 445.7  | 447.7  | 448.5  | 449.3  |
| 47.5°  | 424.2  | 427.4  | 428.2  | 429.1  |
| 50°    | 403.1  | 405.5  | 405.9  | 406.3  |
| 52.5°  | 381.6  | 384.4  | 386.5  | 388.5  |
| 55°    | 358.9  | 361.7  | 362.9  | 364.2  |
| 57.5°  | 334.6  | 337.4  | 337.8  | 338.2  |
| 60°    | 307.8  | 310.6  | 311.4  | 312.3  |
| 62.5°  | 282.2  | 283.9  | 284.7  | 285.5  |
| 65°    | 253.1  | 255.5  | 257.1  | 258.7  |
| 67.5°  | 225.1  | 227.1  | 227.1  | 227.1  |
| 70°    | 193.8  | 194.7  | 195.9  | 197.1  |
| 72.5°  | 165.1  | 165.5  | 165.5  | 165.5  |
| 75°    | 134.6  | 135.4  | 135.9  | 136.3  |
| 77.5°  | 105.8  | 106.2  | 106.2  | 106.2  |
| 80°    | 77.5   | 77.1   | 77.1   | 77.1   |
| 82.5°  | 53.1   | 51.9   | 51.9   | 51.9   |
| 85°    | 30.4   | 30.0   | 30.4   | 30.8   |
| 87.5°  | 13.8   | 13.8   | 13.8   | 13.8   |
| 90°    | 17.3   | 18.0   | 18.6   | 18.0   |
| 92.5°  | 35.9   | 33.4   | 34.1   | 32.8   |
| 95°    | 84.2   | 78.7   | 74.3   | 71.8   |
| 97.5°  | 192.6  | 169.1  | 154.2  | 147.4  |
| 100°   | 457.1  | 411.9  | 387.7  | 388.3  |
| 102.5° | 685.6  | 652.2  | 633.0  | 615.0  |
| 105°   | 834.3  | 810.7  | 790.9  | 787.8  |
| 107.5° | 926.5  | 915.4  | 907.3  | 900.5  |
| 110°   | 962.5  | 967.4  | 966.2  | 964.9  |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 953.2 | 971.1 | 977.3 | 977.9 |
| 115°   | 915.4 | 942.6 | 955.0 | 958.1 |
| 117.5° | 861.5 | 891.9 | 910.4 | 914.8 |
| 120°   | 804.5 | 839.2 | 854.1 | 857.8 |
| 122.5° | 752.5 | 782.8 | 799.6 | 804.5 |
| 125°   | 708.5 | 735.8 | 751.3 | 755.6 |
| 127.5° | 672.0 | 695.5 | 709.8 | 713.5 |
| 130°   | 638.5 | 660.8 | 673.8 | 678.8 |
| 132.5° | 608.2 | 630.5 | 641.6 | 644.7 |
| 135°   | 578.5 | 597.0 | 608.2 | 612.5 |
| 137.5° | 546.3 | 565.5 | 574.8 | 578.5 |
| 140°   | 515.9 | 533.3 | 543.2 | 542.5 |
| 142.5° | 486.2 | 501.0 | 509.7 | 509.1 |
| 145°   | 459.6 | 472.6 | 477.5 | 478.8 |
| 147.5° | 437.9 | 447.2 | 452.1 | 452.7 |
| 150°   | 419.9 | 426.7 | 430.4 | 430.4 |
| 152.5° | 403.8 | 410.0 | 411.9 | 411.9 |
| 155°   | 390.2 | 395.1 | 396.4 | 397.0 |
| 157.5° | 377.8 | 381.5 | 382.8 | 382.8 |
| 160°   | 366.0 | 369.7 | 369.7 | 369.1 |
| 162.5° | 354.3 | 357.4 | 357.4 | 356.7 |
| 165°   | 344.4 | 346.8 | 346.2 | 346.2 |
| 167.5° | 334.4 | 336.3 | 335.7 | 335.7 |
| 170°   | 325.8 | 327.0 | 326.4 | 326.4 |
| 172.5° | 318.3 | 319.6 | 318.3 | 317.7 |
| 175°   | 312.1 | 312.8 | 312.1 | 311.5 |
| 177.5° | 307.8 | 308.4 | 307.2 | 307.2 |
| 180°   | 306.0 | 306.0 | 306.0 | 306.0 |



TEST NUMBER: P831707

CATALOG NUMBER: S123DIP-S775D805U927-4F0-1E-UDD-G4

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 14.22            | 15.09 | 15.14 | 16.02 | 17.22 | 16.45          | 17.32 | 17.38 | 18.25 | 19.46 |
|                 | 3H   | 15.87            | 16.64 | 16.80 | 17.58 | 18.81 | 17.88          | 18.66 | 18.81 | 19.60 | 20.82 |
|                 | 4H   | 16.44            | 17.18 | 17.39 | 18.13 | 19.36 | 18.33          | 19.06 | 19.28 | 20.01 | 21.25 |
|                 | 6H   | 16.81            | 17.49 | 17.77 | 18.44 | 19.69 | 18.61          | 19.28 | 19.56 | 20.24 | 21.48 |
|                 | 8H   | 16.91            | 17.55 | 17.88 | 18.52 | 19.77 | 18.67          | 19.31 | 19.63 | 20.28 | 21.53 |
|                 | 12H  | 16.96            | 17.57 | 17.93 | 18.53 | 19.80 | 18.69          | 19.30 | 19.66 | 20.26 | 21.53 |
| 4H              | 2H   | 14.79            | 15.53 | 15.75 | 16.48 | 17.71 | 16.62          | 17.35 | 17.57 | 18.30 | 19.54 |
|                 | 3H   | 16.62            | 17.23 | 17.59 | 18.21 | 19.46 | 18.24          | 18.85 | 19.20 | 19.83 | 21.08 |
|                 | 4H   | 17.32            | 17.88 | 18.29 | 18.85 | 20.12 | 18.82          | 19.38 | 19.79 | 20.35 | 21.62 |
|                 | 6H   | 17.80            | 18.28 | 18.78 | 19.27 | 20.54 | 19.23          | 19.71 | 20.21 | 20.70 | 21.98 |
|                 | 8H   | 17.93            | 18.38 | 18.92 | 19.37 | 20.66 | 19.34          | 19.79 | 20.32 | 20.78 | 22.06 |
|                 | 12H  | 18.00            | 18.40 | 19.00 | 19.41 | 20.70 | 19.38          | 19.79 | 20.39 | 20.79 | 22.08 |
| 8H              | 4H   | 17.59            | 18.04 | 18.57 | 19.02 | 20.31 | 18.93          | 19.38 | 19.91 | 20.37 | 21.65 |
|                 | 6H   | 18.18            | 18.55 | 19.19 | 19.58 | 20.86 | 19.43          | 19.80 | 20.44 | 20.83 | 22.12 |
|                 | 8H   | 18.38            | 18.71 | 19.40 | 19.73 | 21.03 | 19.61          | 19.94 | 20.63 | 20.95 | 22.26 |
|                 | 12H  | 18.51            | 18.80 | 19.53 | 19.81 | 21.16 | 19.71          | 20.00 | 20.74 | 21.01 | 22.36 |
| 12H             | 4H   | 17.59            | 17.99 | 18.59 | 19.00 | 20.29 | 18.90          | 19.31 | 19.91 | 20.31 | 21.60 |
|                 | 6H   | 18.23            | 18.55 | 19.25 | 19.57 | 20.87 | 19.45          | 19.77 | 20.46 | 20.79 | 22.09 |
|                 | 8H   | 18.46            | 18.75 | 19.48 | 19.76 | 21.11 | 19.65          | 19.93 | 20.67 | 20.94 | 22.29 |