

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: P831637

Luminaire Tested: S123DIP-S775D1195U950-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831637  
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-S775D1195U950-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

**Summary**

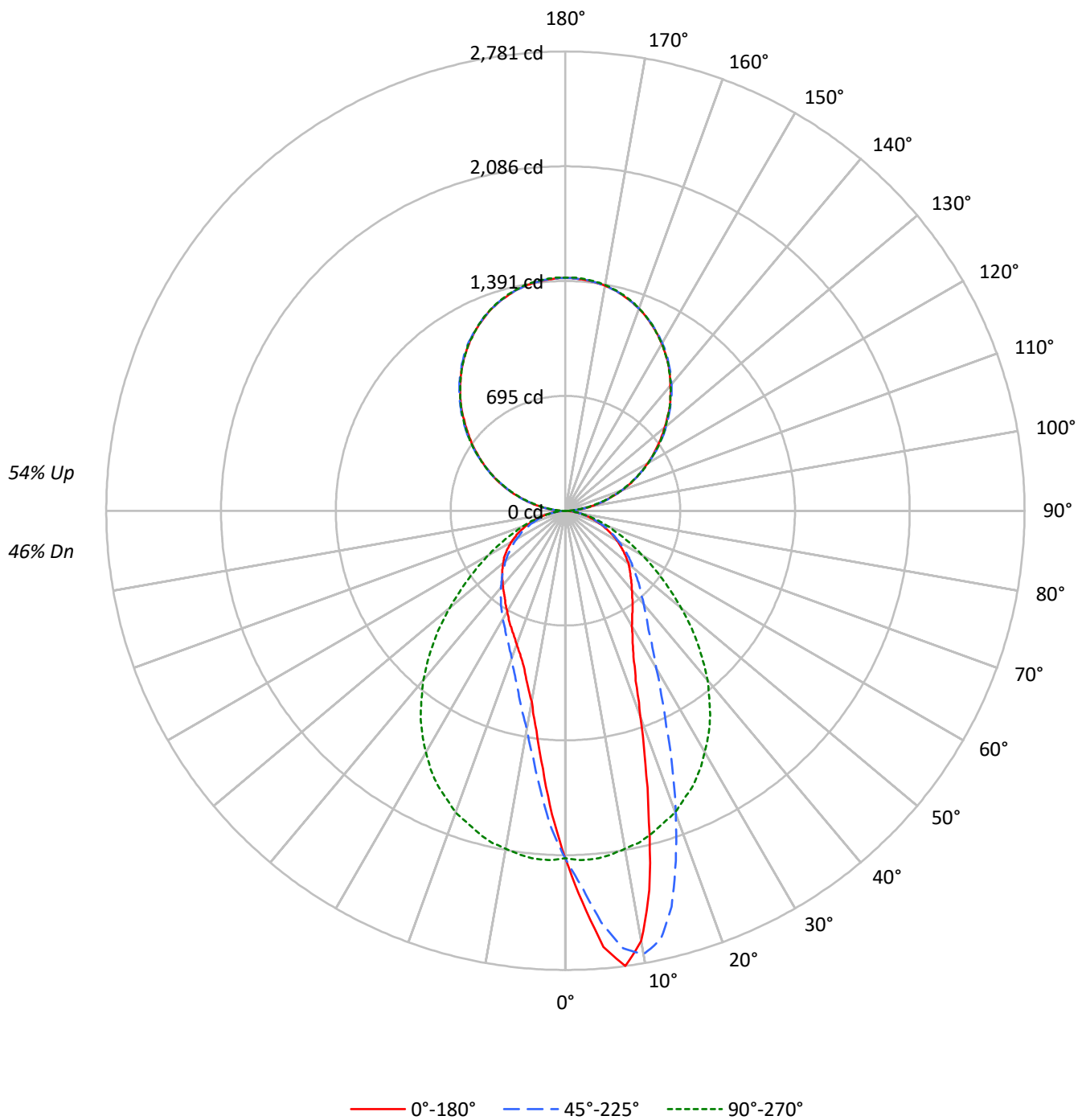
Lumens per Lamp: N/A  
Luminaire Lumens: 7296.3 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 56.9  
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: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

### Luminous Intensity Polar Plot



TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 66 | 66 | 66 | 53 | 53 | 53 |
| 1   | 97  | 93  | 90  | 86  | 89 | 86 | 83 | 80 | 72 | 70 | 68 | 59 | 58 | 56 | 47 | 46 | 46 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 42 | 41 | 39 |
| 3   | 82  | 73  | 66  | 60  | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 |
| 4   | 75  | 65  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 42 | 39 | 36 | 34 | 32 | 30 |
| 5   | 69  | 58  | 50  | 44  | 63 | 54 | 47 | 42 | 46 | 41 | 37 | 38 | 34 | 31 | 31 | 29 | 26 |
| 6   | 64  | 52  | 45  | 39  | 59 | 49 | 42 | 37 | 42 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 |
| 7   | 59  | 47  | 40  | 34  | 54 | 44 | 37 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 27 | 24 | 21 |
| 8   | 55  | 43  | 36  | 31  | 51 | 40 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 |
| 9   | 52  | 40  | 33  | 28  | 47 | 37 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 21 | 23 | 20 | 18 |
| 10  | 48  | 37  | 30  | 25  | 45 | 34 | 28 | 24 | 30 | 25 | 21 | 25 | 22 | 19 | 21 | 18 | 16 |

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

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

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°

Vertical Angle: 45°

Luminance: 19642 cd/sqm

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 199.0  | 2.7       |
| 10°-20°   | 495.1  | 6.8       |
| 20°-30°   | 586.2  | 8.0       |
| 30°-40°   | 589.4  | 8.1       |
| 40°-50°   | 540.7  | 7.4       |
| 50°-60°   | 446.3  | 6.1       |
| 60°-70°   | 315.7  | 4.3       |
| 70°-80°   | 168.5  | 2.3       |
| 80°-90°   | 45.7   | 0.6       |
| 90°-100°  | 90.8   | 1.2       |
| 100°-110° | 274.9  | 3.8       |
| 110°-120° | 468.0  | 6.4       |
| 120°-130° | 615.7  | 8.4       |
| 130°-140° | 692.1  | 9.5       |
| 140°-150° | 680.4  | 9.3       |
| 150°-160° | 572.8  | 7.9       |
| 160°-170° | 381.4  | 5.2       |
| 170°-180° | 133.5  | 1.8       |
| <hr/>     |        |           |
| 0°-30°    | 1280.2 | 17.5      |
| 0°-40°    | 1869.6 | 25.6      |
| 0°-60°    | 2856.6 | 39.2      |
| 0°-90°    | 3386.6 | 46.4      |
| 90°-120°  | 833.8  | 11.4      |
| 90°-150°  | 2822.0 | 38.7      |
| 90°-180°  | 3910.0 | 53.6      |
| 0°-180°   | 7296.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2105 | 2105 | 2105 | 2105 | 2105 |      |
| 5°   | 2652 | 2503 | 2116 | 1705 | 1567 | 253  |
| 15°  | 1955 | 2483 | 2024 | 1116 | 974  | 540  |
| 25°  | 975  | 1450 | 1833 | 842  | 778  | 460  |
| 35°  | 707  | 879  | 1529 | 681  | 640  | 444  |
| 45°  | 559  | 630  | 1130 | 538  | 541  | 433  |
| 55°  | 429  | 455  | 715  | 405  | 439  | 384  |
| 65°  | 286  | 298  | 392  | 277  | 312  | 284  |
| 75°  | 146  | 151  | 175  | 147  | 164  | 154  |
| 85°  | 32   | 36   | 34   | 37   | 37   | 36   |
| 90°  | 33   | 27   | 1    | 27   | 33   | 18   |
| 95°  | 86   | 82   | 65   | 82   | 86   | 87   |
| 105° | 264  | 262  | 249  | 262  | 264  | 280  |
| 115° | 472  | 472  | 471  | 472  | 472  | 468  |
| 125° | 682  | 691  | 689  | 691  | 682  | 610  |
| 135° | 893  | 900  | 894  | 900  | 893  | 687  |
| 145° | 1085 | 1091 | 1085 | 1091 | 1085 | 678  |
| 155° | 1240 | 1244 | 1243 | 1244 | 1240 | 571  |
| 165° | 1349 | 1350 | 1353 | 1350 | 1349 | 381  |
| 175° | 1402 | 1403 | 1408 | 1403 | 1402 | 133  |
| 180° | 1411 | 1411 | 1411 | 1411 | 1411 |      |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 2372.5 | 2370.0 | 2367.6 | 2355.4 | 2343.2 | 2337.3 | 2331.5 | 2313.9 | 2296.3 | 2276.8 | 2257.2 |
| 5°     | 2651.8 | 2658.7 | 2665.5 | 2657.7 | 2649.9 | 2625.9 | 2602.0 | 2570.3 | 2538.5 | 2502.9 | 2467.2 |
| 7.5°   | 2780.8 | 2784.7 | 2788.6 | 2783.7 | 2778.8 | 2772.5 | 2766.1 | 2737.8 | 2709.5 | 2672.8 | 2636.2 |
| 10°    | 2646.9 | 2655.7 | 2664.5 | 2683.6 | 2702.6 | 2724.1 | 2745.6 | 2741.7 | 2737.8 | 2727.0 | 2716.3 |
| 12.5°  | 2353.0 | 2363.7 | 2374.4 | 2412.5 | 2450.6 | 2499.5 | 2548.3 | 2590.3 | 2632.3 | 2661.6 | 2690.9 |
| 15°    | 1955.4 | 1985.2 | 2015.0 | 2049.7 | 2084.3 | 2156.1 | 2227.9 | 2316.3 | 2404.7 | 2483.3 | 2562.0 |
| 17.5°  | 1610.6 | 1621.9 | 1633.1 | 1670.2 | 1707.3 | 1797.7 | 1888.0 | 1990.1 | 2092.2 | 2222.6 | 2353.0 |
| 20°    | 1325.4 | 1335.7 | 1345.9 | 1394.8 | 1443.6 | 1514.4 | 1585.2 | 1700.0 | 1814.8 | 1954.9 | 2095.1 |
| 22.5°  | 1113.5 | 1129.6 | 1145.7 | 1173.1 | 1200.4 | 1268.3 | 1336.2 | 1438.2 | 1540.3 | 1695.1 | 1849.9 |
| 25°    | 974.8  | 986.5  | 998.2  | 1014.8 | 1031.4 | 1085.6 | 1139.8 | 1223.8 | 1307.8 | 1450.0 | 1592.1 |
| 27.5°  | 880.0  | 884.9  | 889.8  | 906.4  | 923.0  | 958.2  | 993.3  | 1065.6 | 1137.9 | 1258.5 | 1379.1 |
| 30°    | 805.8  | 809.2  | 812.6  | 827.3  | 841.9  | 865.9  | 889.8  | 942.1  | 994.3  | 1100.8 | 1207.2 |
| 32.5°  | 754.0  | 756.5  | 758.9  | 770.2  | 781.4  | 798.5  | 815.6  | 853.7  | 891.8  | 979.7  | 1067.6 |
| 35°    | 707.2  | 708.6  | 710.1  | 718.4  | 726.7  | 739.4  | 752.1  | 780.9  | 809.7  | 879.1  | 948.4  |
| 37.5°  | 666.1  | 668.1  | 670.0  | 674.9  | 679.8  | 691.0  | 702.3  | 725.2  | 748.2  | 801.4  | 854.6  |
| 40°    | 626.1  | 629.5  | 632.9  | 636.3  | 639.8  | 649.0  | 658.3  | 675.9  | 693.5  | 737.4  | 781.4  |
| 42.5°  | 591.9  | 595.3  | 598.7  | 600.2  | 601.7  | 607.0  | 612.4  | 628.5  | 644.6  | 677.4  | 710.1  |
| 45°    | 558.7  | 560.2  | 561.6  | 563.1  | 564.6  | 568.9  | 573.3  | 587.5  | 601.7  | 630.0  | 658.3  |
| 47.5°  | 528.4  | 528.4  | 528.4  | 529.4  | 530.4  | 534.3  | 538.2  | 548.4  | 558.7  | 580.7  | 602.6  |
| 50°    | 499.1  | 499.1  | 499.1  | 497.6  | 496.2  | 498.6  | 501.1  | 508.9  | 516.7  | 536.2  | 555.8  |
| 52.5°  | 463.9  | 463.9  | 463.9  | 464.4  | 464.9  | 464.9  | 464.9  | 471.8  | 478.6  | 496.2  | 513.8  |
| 55°    | 428.8  | 430.7  | 432.7  | 431.2  | 429.8  | 430.7  | 431.7  | 436.1  | 440.5  | 454.7  | 468.8  |
| 57.5°  | 393.6  | 394.6  | 395.6  | 395.1  | 394.6  | 395.1  | 395.6  | 399.5  | 403.4  | 414.1  | 424.9  |
| 60°    | 360.4  | 360.4  | 360.4  | 359.4  | 358.5  | 359.4  | 360.4  | 362.4  | 364.3  | 374.1  | 383.9  |
| 62.5°  | 323.3  | 323.8  | 324.3  | 324.8  | 325.3  | 324.3  | 323.3  | 325.7  | 328.2  | 335.5  | 342.8  |
| 65°    | 286.2  | 286.7  | 287.2  | 288.6  | 290.1  | 289.1  | 288.1  | 290.6  | 293.0  | 298.4  | 303.8  |
| 67.5°  | 253.0  | 252.0  | 251.0  | 251.5  | 252.0  | 253.5  | 254.9  | 255.4  | 255.9  | 261.8  | 267.6  |
| 70°    | 213.9  | 214.9  | 215.9  | 215.4  | 214.9  | 215.4  | 215.9  | 217.3  | 218.8  | 223.2  | 227.6  |
| 72.5°  | 178.7  | 179.2  | 179.7  | 179.7  | 179.7  | 180.7  | 181.7  | 183.1  | 184.6  | 187.0  | 189.5  |
| 75°    | 146.5  | 146.5  | 146.5  | 147.5  | 148.5  | 149.0  | 149.4  | 149.4  | 149.4  | 151.4  | 153.3  |
| 77.5°  | 111.3  | 113.8  | 116.2  | 115.7  | 115.3  | 116.2  | 117.2  | 118.7  | 120.1  | 121.1  | 122.1  |
| 80°    | 81.1   | 81.1   | 81.1   | 81.6   | 82.0   | 83.5   | 85.0   | 86.0   | 86.9   | 88.9   | 90.8   |
| 82.5°  | 51.8   | 52.3   | 52.7   | 54.2   | 55.7   | 56.7   | 57.6   | 59.1   | 60.6   | 60.6   | 60.6   |
| 85°    | 32.2   | 31.3   | 30.3   | 31.3   | 32.2   | 33.2   | 34.2   | 34.7   | 35.2   | 36.1   | 37.1   |
| 87.5°  | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 16.1   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 90°    | 33.3   | 32.8   | 32.3   | 31.8   | 31.3   | 30.5   | 29.6   | 28.6   | 27.6   | 26.6   | 23.4   |
| 92.5°  | 47.7   | 48.2   | 48.6   | 49.1   | 49.6   | 49.5   | 48.8   | 48.0   | 47.3   | 46.6   | 45.1   |
| 95°    | 86.5   | 86.5   | 86.5   | 86.5   | 86.5   | 86.0   | 85.0   | 84.0   | 83.0   | 82.0   | 80.1   |
| 97.5°  | 124.1  | 124.4  | 124.6  | 124.9  | 125.1  | 124.6  | 123.4  | 122.2  | 120.9  | 119.7  | 118.2  |
| 100°   | 168.5  | 168.0  | 167.5  | 167.0  | 166.5  | 165.9  | 165.2  | 164.4  | 163.7  | 162.9  | 161.7  |
| 102.5° | 213.9  | 214.2  | 214.4  | 214.7  | 214.9  | 214.7  | 213.9  | 213.2  | 212.5  | 211.7  | 210.0  |
| 105°   | 263.8  | 263.3  | 262.8  | 262.3  | 261.8  | 261.6  | 261.6  | 261.6  | 261.6  | 261.6  | 259.4  |
| 107.5° | 314.8  | 315.0  | 315.3  | 315.5  | 315.8  | 315.5  | 314.8  | 314.1  | 313.3  | 312.6  | 311.6  |
| 110°   | 366.9  | 367.4  | 367.9  | 368.4  | 368.9  | 368.6  | 367.6  | 366.6  | 365.7  | 364.7  | 364.2  |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 422.3  | 422.3  | 422.3  | 422.3  | 422.3  | 421.7  | 420.5  | 419.2  | 418.0  | 416.8  | 416.8  |
| 115°   | 472.2  | 472.4  | 472.7  | 472.9  | 473.2  | 473.2  | 472.9  | 472.7  | 472.4  | 472.2  | 472.7  |
| 117.5° | 523.2  | 523.9  | 524.7  | 525.4  | 526.1  | 526.5  | 526.5  | 526.5  | 526.5  | 526.5  | 527.0  |
| 120°   | 577.5  | 578.0  | 578.5  | 579.0  | 579.5  | 579.8  | 580.1  | 580.3  | 580.6  | 580.8  | 582.1  |
| 122.5° | 629.6  | 630.3  | 631.1  | 631.8  | 632.5  | 633.3  | 634.0  | 634.8  | 635.5  | 636.2  | 636.7  |
| 125°   | 681.7  | 682.7  | 683.7  | 684.6  | 685.6  | 686.6  | 687.6  | 688.6  | 689.6  | 690.6  | 691.0  |
| 127.5° | 733.8  | 734.8  | 735.8  | 736.7  | 737.7  | 739.0  | 740.4  | 741.9  | 743.4  | 744.9  | 745.4  |
| 130°   | 784.8  | 786.5  | 788.2  | 789.9  | 791.7  | 793.0  | 794.0  | 795.0  | 796.0  | 797.0  | 797.7  |
| 132.5° | 838.0  | 839.2  | 840.4  | 841.7  | 842.9  | 844.1  | 845.4  | 846.6  | 847.8  | 849.1  | 849.6  |
| 135°   | 893.4  | 893.9  | 894.4  | 894.9  | 895.4  | 896.1  | 897.1  | 898.1  | 899.1  | 900.0  | 900.3  |
| 137.5° | 942.2  | 942.9  | 943.6  | 944.4  | 945.1  | 946.1  | 947.3  | 948.6  | 949.8  | 951.0  | 950.3  |
| 140°   | 989.8  | 991.6  | 993.3  | 995.0  | 996.7  | 997.7  | 998.0  | 998.2  | 998.5  | 998.7  | 998.5  |
| 142.5° | 1038.6 | 1039.8 | 1041.1 | 1042.3 | 1043.5 | 1044.3 | 1044.5 | 1044.8 | 1045.0 | 1045.3 | 1044.8 |
| 145°   | 1085.2 | 1086.1 | 1087.1 | 1088.1 | 1089.1 | 1089.7 | 1090.0 | 1090.2 | 1090.5 | 1090.7 | 1090.0 |
| 147.5° | 1127.3 | 1128.8 | 1130.2 | 1131.7 | 1133.2 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.2 |
| 150°   | 1167.2 | 1168.7 | 1170.1 | 1171.6 | 1173.1 | 1173.8 | 1173.8 | 1173.8 | 1173.8 | 1173.8 | 1173.3 |
| 152.5° | 1206.0 | 1207.2 | 1208.4 | 1209.7 | 1210.9 | 1211.3 | 1210.8 | 1210.3 | 1209.8 | 1209.3 | 1209.1 |
| 155°   | 1240.3 | 1242.1 | 1243.8 | 1245.5 | 1247.2 | 1247.6 | 1246.6 | 1245.6 | 1244.6 | 1243.7 | 1243.4 |
| 157.5° | 1272.5 | 1274.0 | 1275.4 | 1276.9 | 1278.4 | 1278.6 | 1277.7 | 1276.7 | 1275.7 | 1274.7 | 1274.5 |
| 160°   | 1303.5 | 1304.5 | 1305.5 | 1306.5 | 1307.5 | 1307.3 | 1306.1 | 1304.9 | 1303.6 | 1302.4 | 1302.4 |
| 162.5° | 1326.8 | 1328.5 | 1330.2 | 1332.0 | 1333.7 | 1333.9 | 1332.7 | 1331.5 | 1330.2 | 1329.0 | 1328.8 |
| 165°   | 1349.0 | 1350.7 | 1352.4 | 1354.1 | 1355.9 | 1356.0 | 1354.5 | 1353.0 | 1351.6 | 1350.1 | 1350.1 |
| 167.5° | 1368.9 | 1370.4 | 1371.9 | 1373.4 | 1374.8 | 1374.8 | 1373.4 | 1371.9 | 1370.4 | 1368.9 | 1368.7 |
| 170°   | 1383.3 | 1385.1 | 1386.8 | 1388.5 | 1390.2 | 1390.2 | 1388.5 | 1386.8 | 1385.1 | 1383.3 | 1383.3 |
| 172.5° | 1394.4 | 1396.1 | 1397.9 | 1399.6 | 1401.3 | 1401.4 | 1400.0 | 1398.5 | 1397.0 | 1395.5 | 1395.5 |
| 175°   | 1402.2 | 1403.9 | 1405.6 | 1407.3 | 1409.1 | 1409.2 | 1407.7 | 1406.2 | 1404.8 | 1403.3 | 1403.3 |
| 177.5° | 1406.6 | 1408.3 | 1410.1 | 1411.8 | 1413.5 | 1413.6 | 1412.1 | 1410.7 | 1409.2 | 1407.7 | 1407.7 |
| 180°   | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 2251.4 | 2245.5 | 2224.0 | 2202.5 | 2178.1 | 2153.7 | 2135.6 | 2117.6 | 2090.7 | 2063.8 | 2041.9 |
| 5°     | 2439.9 | 2412.5 | 2367.1 | 2321.7 | 2260.2 | 2198.6 | 2157.1 | 2115.6 | 2059.9 | 2004.3 | 1959.8 |
| 7.5°   | 2589.3 | 2542.4 | 2478.9 | 2415.5 | 2334.9 | 2254.3 | 2178.1 | 2101.9 | 2017.0 | 1932.0 | 1862.6 |
| 10°    | 2684.6 | 2652.8 | 2579.6 | 2506.3 | 2398.4 | 2290.4 | 2184.0 | 2077.5 | 1968.1 | 1858.7 | 1766.9 |
| 12.5°  | 2693.8 | 2696.8 | 2629.4 | 2562.0 | 2439.9 | 2317.8 | 2188.4 | 2059.0 | 1921.2 | 1783.5 | 1676.6 |
| 15°    | 2612.3 | 2662.6 | 2625.5 | 2588.3 | 2465.3 | 2342.2 | 2183.0 | 2023.8 | 1865.1 | 1706.4 | 1582.8 |
| 17.5°  | 2460.9 | 2568.8 | 2574.2 | 2579.6 | 2456.5 | 2333.4 | 2157.1 | 1980.8 | 1801.1 | 1621.4 | 1491.5 |
| 20°    | 2254.3 | 2413.5 | 2468.2 | 2522.9 | 2422.8 | 2322.7 | 2133.2 | 1943.7 | 1742.5 | 1541.3 | 1405.0 |
| 22.5°  | 2043.3 | 2236.7 | 2336.8 | 2437.0 | 2362.7 | 2288.5 | 2086.8 | 1885.1 | 1672.7 | 1460.2 | 1322.0 |
| 25°    | 1803.1 | 2014.0 | 2167.9 | 2321.7 | 2276.3 | 2230.9 | 2032.1 | 1833.3 | 1607.2 | 1381.1 | 1240.0 |
| 27.5°  | 1593.5 | 1807.9 | 1993.5 | 2179.1 | 2169.3 | 2159.6 | 1962.3 | 1765.0 | 1533.5 | 1302.0 | 1165.7 |
| 30°    | 1407.0 | 1606.7 | 1814.3 | 2021.8 | 2045.8 | 2069.7 | 1879.2 | 1688.8 | 1456.8 | 1224.8 | 1093.5 |
| 32.5°  | 1241.9 | 1416.3 | 1639.0 | 1861.7 | 1908.5 | 1955.4 | 1783.5 | 1611.6 | 1382.1 | 1152.5 | 1026.1 |
| 35°    | 1106.6 | 1264.9 | 1487.6 | 1710.3 | 1768.9 | 1827.5 | 1678.0 | 1528.6 | 1304.9 | 1081.2 | 960.6  |
| 37.5°  | 987.0  | 1119.3 | 1336.7 | 1554.0 | 1625.8 | 1697.6 | 1563.8 | 1429.9 | 1220.4 | 1010.9 | 900.1  |
| 40°    | 887.9  | 994.3  | 1194.1 | 1393.8 | 1476.8 | 1559.8 | 1449.5 | 1339.1 | 1140.3 | 941.6  | 839.5  |
| 42.5°  | 804.8  | 899.6  | 1080.8 | 1261.9 | 1341.5 | 1421.1 | 1327.9 | 1234.6 | 1057.8 | 881.0  | 787.7  |
| 45°    | 734.0  | 809.7  | 974.3  | 1138.9 | 1214.6 | 1290.3 | 1210.2 | 1130.1 | 974.3  | 818.5  | 731.6  |
| 47.5°  | 667.6  | 732.6  | 873.2  | 1013.8 | 1081.2 | 1148.6 | 1086.1 | 1023.6 | 891.8  | 759.9  | 681.3  |
| 50°    | 608.0  | 660.3  | 783.3  | 906.4  | 965.0  | 1023.6 | 968.4  | 913.2  | 804.8  | 696.4  | 628.0  |
| 52.5°  | 556.2  | 598.7  | 701.8  | 804.8  | 855.1  | 905.4  | 858.1  | 810.7  | 724.7  | 638.8  | 579.2  |
| 55°    | 505.0  | 541.1  | 630.5  | 719.9  | 754.0  | 788.2  | 751.6  | 715.0  | 645.6  | 576.3  | 526.0  |
| 57.5°  | 457.1  | 489.3  | 562.6  | 635.9  | 662.2  | 688.6  | 655.4  | 622.2  | 569.9  | 517.7  | 475.7  |
| 60°    | 410.2  | 436.6  | 497.6  | 558.7  | 574.8  | 590.9  | 564.1  | 537.2  | 500.6  | 463.9  | 426.3  |
| 62.5°  | 366.8  | 390.7  | 436.1  | 481.5  | 492.3  | 503.0  | 482.5  | 462.0  | 434.2  | 406.3  | 377.0  |
| 65°    | 321.8  | 339.9  | 377.0  | 414.1  | 421.0  | 427.8  | 409.7  | 391.7  | 370.7  | 349.7  | 328.2  |
| 67.5°  | 280.3  | 293.0  | 323.3  | 353.6  | 354.1  | 354.6  | 339.9  | 325.3  | 313.5  | 301.8  | 284.7  |
| 70°    | 239.8  | 252.0  | 272.0  | 292.0  | 292.5  | 293.0  | 281.3  | 269.6  | 260.8  | 252.0  | 239.3  |
| 72.5°  | 198.3  | 207.1  | 222.2  | 237.3  | 236.4  | 235.4  | 228.1  | 220.7  | 213.9  | 207.1  | 197.8  |
| 75°    | 160.7  | 168.0  | 178.3  | 188.5  | 185.6  | 182.6  | 178.7  | 174.8  | 169.0  | 163.1  | 157.3  |
| 77.5°  | 126.5  | 130.9  | 136.7  | 142.6  | 140.6  | 138.7  | 135.3  | 131.9  | 127.5  | 123.1  | 120.6  |
| 80°    | 92.8   | 94.7   | 98.7   | 102.6  | 101.6  | 100.6  | 96.7   | 92.8   | 91.8   | 90.8   | 87.4   |
| 82.5°  | 63.0   | 65.4   | 66.4   | 67.4   | 66.9   | 66.4   | 63.5   | 60.6   | 59.6   | 58.6   | 58.1   |
| 85°    | 37.6   | 38.1   | 38.6   | 39.1   | 37.6   | 36.1   | 35.2   | 34.2   | 34.2   | 34.2   | 33.7   |
| 87.5°  | 17.1   | 17.6   | 17.6   | 17.6   | 17.1   | 16.6   | 15.6   | 14.7   | 15.1   | 15.6   | 15.6   |
| 90°    | 20.2   | 17.0   | 13.8   | 11.0   | 8.5    | 6.0    | 3.6    | 1.1    | 3.6    | 6.0    | 8.5    |
| 92.5°  | 43.6   | 42.1   | 40.6   | 39.2   | 37.7   | 36.2   | 34.7   | 33.3   | 34.7   | 36.2   | 37.7   |
| 95°    | 78.1   | 76.1   | 74.1   | 72.3   | 70.6   | 68.8   | 67.1   | 65.4   | 67.1   | 68.8   | 70.6   |
| 97.5°  | 116.8  | 115.3  | 113.8  | 112.4  | 111.2  | 110.0  | 108.7  | 107.5  | 108.7  | 110.0  | 111.2  |
| 100°   | 160.5  | 159.2  | 158.0  | 156.7  | 155.2  | 153.7  | 152.2  | 150.7  | 152.2  | 153.7  | 155.2  |
| 102.5° | 208.3  | 206.5  | 204.8  | 203.6  | 202.8  | 202.1  | 201.4  | 200.6  | 201.4  | 202.1  | 202.8  |
| 105°   | 257.2  | 254.9  | 252.7  | 251.4  | 250.9  | 250.4  | 249.9  | 249.4  | 249.9  | 250.4  | 250.9  |
| 107.5° | 310.6  | 309.6  | 308.6  | 308.0  | 307.8  | 307.5  | 307.3  | 307.0  | 307.3  | 307.5  | 307.8  |
| 110°   | 363.7  | 363.2  | 362.7  | 362.2  | 361.7  | 361.2  | 360.7  | 360.2  | 360.7  | 361.2  | 361.7  |



TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.8  | 416.8  | 416.8  | 416.6  | 416.4  | 416.2  | 415.9  | 415.7  | 415.9  | 416.2  | 416.4  |
| 115°   | 473.2  | 473.7  | 474.2  | 474.0  | 473.3  | 472.6  | 471.8  | 471.1  | 471.8  | 472.6  | 473.3  |
| 117.5° | 527.5  | 528.0  | 528.5  | 528.6  | 528.4  | 528.1  | 527.9  | 527.6  | 527.9  | 528.1  | 528.4  |
| 120°   | 583.3  | 584.5  | 585.7  | 585.6  | 584.1  | 582.7  | 581.2  | 579.7  | 581.2  | 582.7  | 584.1  |
| 122.5° | 637.2  | 637.7  | 638.2  | 638.0  | 637.0  | 636.0  | 635.0  | 634.0  | 635.0  | 636.0  | 637.0  |
| 125°   | 691.5  | 692.0  | 692.5  | 692.4  | 691.7  | 690.9  | 690.2  | 689.4  | 690.2  | 690.9  | 691.7  |
| 127.5° | 745.9  | 746.3  | 746.8  | 746.3  | 744.9  | 743.4  | 741.9  | 740.4  | 741.9  | 743.4  | 744.9  |
| 130°   | 798.4  | 799.2  | 799.9  | 799.3  | 797.3  | 795.4  | 793.4  | 791.4  | 793.4  | 795.4  | 797.3  |
| 132.5° | 850.0  | 850.5  | 851.0  | 850.3  | 848.3  | 846.4  | 844.4  | 842.4  | 844.4  | 846.4  | 848.3  |
| 135°   | 900.5  | 900.8  | 901.0  | 900.4  | 898.9  | 897.5  | 896.0  | 894.5  | 896.0  | 897.5  | 898.9  |
| 137.5° | 949.6  | 948.8  | 948.1  | 947.1  | 945.9  | 944.6  | 943.4  | 942.2  | 943.4  | 944.6  | 945.9  |
| 140°   | 998.2  | 998.0  | 997.7  | 997.0  | 995.7  | 994.5  | 993.3  | 992.0  | 993.3  | 994.5  | 995.7  |
| 142.5° | 1044.3 | 1043.8 | 1043.3 | 1042.4 | 1041.2 | 1040.0 | 1038.7 | 1037.5 | 1038.7 | 1040.0 | 1041.2 |
| 145°   | 1089.2 | 1088.5 | 1087.7 | 1087.1 | 1086.6 | 1086.1 | 1085.7 | 1085.2 | 1085.7 | 1086.1 | 1086.6 |
| 147.5° | 1132.5 | 1131.7 | 1131.0 | 1130.1 | 1129.1 | 1128.1 | 1127.2 | 1126.2 | 1127.2 | 1128.1 | 1129.1 |
| 150°   | 1172.8 | 1172.4 | 1171.9 | 1171.4 | 1170.9 | 1170.4 | 1169.9 | 1169.4 | 1169.9 | 1170.4 | 1170.9 |
| 152.5° | 1208.8 | 1208.6 | 1208.3 | 1207.8 | 1207.1 | 1206.3 | 1205.6 | 1204.9 | 1205.6 | 1206.3 | 1207.1 |
| 155°   | 1243.2 | 1242.9 | 1242.7 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 | 1242.6 |
| 157.5° | 1274.2 | 1274.0 | 1273.7 | 1273.7 | 1274.0 | 1274.2 | 1274.5 | 1274.7 | 1274.5 | 1274.2 | 1274.0 |
| 160°   | 1302.4 | 1302.4 | 1302.4 | 1302.7 | 1303.2 | 1303.6 | 1304.1 | 1304.6 | 1304.1 | 1303.6 | 1303.2 |
| 162.5° | 1328.5 | 1328.3 | 1328.0 | 1328.3 | 1329.0 | 1329.8 | 1330.5 | 1331.2 | 1330.5 | 1329.8 | 1329.0 |
| 165°   | 1350.1 | 1350.1 | 1350.1 | 1350.4 | 1351.2 | 1351.9 | 1352.7 | 1353.4 | 1352.7 | 1351.9 | 1351.2 |
| 167.5° | 1368.4 | 1368.2 | 1367.9 | 1368.3 | 1369.3 | 1370.3 | 1371.3 | 1372.2 | 1371.3 | 1370.3 | 1369.3 |
| 170°   | 1383.3 | 1383.3 | 1383.3 | 1383.8 | 1384.8 | 1385.8 | 1386.8 | 1387.8 | 1386.8 | 1385.8 | 1384.8 |
| 172.5° | 1395.5 | 1395.5 | 1395.5 | 1396.0 | 1397.0 | 1398.0 | 1399.0 | 1400.0 | 1399.0 | 1398.0 | 1397.0 |
| 175°   | 1403.3 | 1403.3 | 1403.3 | 1403.8 | 1404.8 | 1405.7 | 1406.7 | 1407.7 | 1406.7 | 1405.7 | 1404.8 |
| 177.5° | 1407.7 | 1407.7 | 1407.7 | 1408.2 | 1409.2 | 1410.2 | 1411.2 | 1412.1 | 1411.2 | 1410.2 | 1409.2 |
| 180°   | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 2019.9 | 2000.8 | 1981.8 | 1967.1 | 1952.5 | 1927.6 | 1902.7 | 1896.8 | 1891.0 | 1882.7 | 1874.4 |
| 5°     | 1915.4 | 1868.5 | 1821.6 | 1779.6 | 1737.6 | 1704.9 | 1672.2 | 1650.7 | 1629.2 | 1613.6 | 1597.9 |
| 7.5°   | 1793.3 | 1723.0 | 1652.6 | 1602.8 | 1553.0 | 1505.6 | 1458.3 | 1443.1 | 1428.0 | 1407.5 | 1387.0 |
| 10°    | 1675.1 | 1597.4 | 1519.8 | 1454.8 | 1389.9 | 1343.5 | 1297.1 | 1278.5 | 1260.0 | 1234.1 | 1208.2 |
| 12.5°  | 1569.6 | 1484.6 | 1399.7 | 1334.2 | 1268.8 | 1223.8 | 1178.9 | 1152.1 | 1125.2 | 1110.5 | 1095.9 |
| 15°    | 1459.2 | 1368.4 | 1277.6 | 1217.0 | 1156.5 | 1115.9 | 1075.4 | 1051.9 | 1028.5 | 1014.3 | 1000.2 |
| 17.5°  | 1361.6 | 1271.7 | 1181.8 | 1123.7 | 1065.6 | 1028.5 | 991.4  | 970.9  | 950.4  | 939.6  | 928.9  |
| 20°    | 1268.8 | 1180.9 | 1093.0 | 1036.3 | 979.7  | 949.4  | 919.1  | 905.9  | 892.7  | 883.9  | 875.2  |
| 22.5°  | 1183.8 | 1097.4 | 1010.9 | 962.6  | 914.2  | 889.8  | 865.4  | 856.1  | 846.8  | 839.5  | 832.2  |
| 25°    | 1098.8 | 1021.7 | 944.5  | 903.5  | 862.5  | 842.4  | 822.4  | 813.1  | 803.9  | 796.5  | 789.2  |
| 27.5°  | 1029.5 | 955.7  | 882.0  | 846.8  | 811.7  | 796.0  | 780.4  | 773.1  | 765.8  | 758.9  | 752.1  |
| 30°    | 962.1  | 896.2  | 830.2  | 799.9  | 769.7  | 755.5  | 741.3  | 734.0  | 726.7  | 720.3  | 714.0  |
| 32.5°  | 899.6  | 842.9  | 786.3  | 758.4  | 730.6  | 718.9  | 707.2  | 698.4  | 689.6  | 684.7  | 679.8  |
| 35°    | 840.0  | 789.2  | 738.4  | 715.5  | 692.5  | 680.8  | 669.1  | 661.7  | 654.4  | 650.5  | 646.6  |
| 37.5°  | 789.2  | 743.8  | 698.4  | 676.4  | 654.4  | 643.2  | 631.9  | 625.6  | 619.2  | 617.8  | 616.3  |
| 40°    | 737.4  | 698.4  | 659.3  | 637.8  | 616.3  | 606.6  | 596.8  | 592.9  | 589.0  | 588.0  | 587.0  |
| 42.5°  | 694.5  | 656.4  | 618.3  | 598.7  | 579.2  | 570.9  | 562.6  | 560.6  | 558.7  | 560.2  | 561.6  |
| 45°    | 644.6  | 612.9  | 581.2  | 563.1  | 545.0  | 538.2  | 531.3  | 529.9  | 528.4  | 531.3  | 534.3  |
| 47.5°  | 602.6  | 573.3  | 544.0  | 526.9  | 509.9  | 505.0  | 500.1  | 499.6  | 499.1  | 503.0  | 506.9  |
| 50°    | 559.7  | 531.3  | 503.0  | 489.3  | 475.7  | 471.3  | 466.9  | 468.3  | 469.8  | 476.2  | 482.5  |
| 52.5°  | 519.6  | 493.3  | 466.9  | 454.2  | 441.5  | 438.6  | 435.6  | 439.0  | 442.5  | 449.3  | 456.1  |
| 55°    | 475.7  | 451.7  | 427.8  | 418.0  | 408.3  | 405.3  | 402.4  | 409.3  | 416.1  | 422.4  | 428.8  |
| 57.5°  | 433.7  | 412.7  | 391.7  | 382.9  | 374.1  | 373.6  | 373.1  | 379.5  | 385.8  | 392.6  | 399.5  |
| 60°    | 388.7  | 371.2  | 353.6  | 346.7  | 339.9  | 340.9  | 341.9  | 349.2  | 356.5  | 361.9  | 367.3  |
| 62.5°  | 347.7  | 333.1  | 318.4  | 312.1  | 305.7  | 308.2  | 310.6  | 317.9  | 325.3  | 331.6  | 337.9  |
| 65°    | 306.7  | 294.5  | 282.3  | 277.9  | 273.5  | 276.9  | 280.3  | 286.7  | 293.0  | 297.4  | 301.8  |
| 67.5°  | 267.6  | 257.4  | 247.1  | 243.7  | 240.3  | 243.7  | 247.1  | 253.5  | 259.8  | 264.2  | 268.6  |
| 70°    | 226.6  | 218.3  | 210.0  | 207.6  | 205.1  | 209.0  | 212.9  | 218.3  | 223.7  | 228.1  | 232.5  |
| 72.5°  | 188.5  | 182.2  | 175.8  | 175.3  | 174.8  | 178.3  | 181.7  | 187.0  | 192.4  | 195.3  | 198.3  |
| 75°    | 151.4  | 148.0  | 144.6  | 144.1  | 143.6  | 147.0  | 150.4  | 153.3  | 156.3  | 158.7  | 161.2  |
| 77.5°  | 118.2  | 115.3  | 112.3  | 112.8  | 113.3  | 115.7  | 118.2  | 121.1  | 124.0  | 125.5  | 127.0  |
| 80°    | 84.0   | 83.0   | 82.0   | 83.0   | 84.0   | 86.0   | 87.9   | 89.9   | 91.8   | 92.8   | 93.8   |
| 82.5°  | 57.6   | 56.7   | 55.7   | 57.1   | 58.6   | 60.1   | 61.5   | 63.0   | 64.5   | 65.0   | 65.4   |
| 85°    | 33.2   | 34.7   | 36.1   | 36.1   | 36.1   | 36.6   | 37.1   | 37.6   | 38.1   | 37.6   | 37.1   |
| 87.5°  | 15.6   | 16.1   | 16.6   | 16.6   | 16.6   | 17.1   | 17.6   | 17.6   | 17.6   | 17.1   | 16.6   |
| 90°    | 11.0   | 13.8   | 17.0   | 20.2   | 23.4   | 26.6   | 27.6   | 28.6   | 29.6   | 30.5   | 31.3   |
| 92.5°  | 39.2   | 40.6   | 42.1   | 43.6   | 45.1   | 46.6   | 47.3   | 48.0   | 48.8   | 49.5   | 49.6   |
| 95°    | 72.3   | 74.1   | 76.1   | 78.1   | 80.1   | 82.0   | 83.0   | 84.0   | 85.0   | 86.0   | 86.5   |
| 97.5°  | 112.4  | 113.8  | 115.3  | 116.8  | 118.2  | 119.7  | 120.9  | 122.2  | 123.4  | 124.6  | 125.1  |
| 100°   | 156.7  | 158.0  | 159.2  | 160.5  | 161.7  | 162.9  | 163.7  | 164.4  | 165.2  | 165.9  | 166.5  |
| 102.5° | 203.6  | 204.8  | 206.5  | 208.3  | 210.0  | 211.7  | 212.5  | 213.2  | 213.9  | 214.7  | 214.9  |
| 105°   | 251.4  | 252.7  | 254.9  | 257.2  | 259.4  | 261.6  | 261.6  | 261.6  | 261.6  | 261.6  | 261.8  |
| 107.5° | 308.0  | 308.6  | 309.6  | 310.6  | 311.6  | 312.6  | 313.3  | 314.1  | 314.8  | 315.5  | 315.8  |
| 110°   | 362.2  | 362.7  | 363.2  | 363.7  | 364.2  | 364.7  | 365.7  | 366.6  | 367.6  | 368.6  | 368.9  |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.6  | 416.8  | 416.8  | 416.8  | 416.8  | 416.8  | 418.0  | 419.2  | 420.5  | 421.7  | 422.3  |
| 115°   | 474.0  | 474.2  | 473.7  | 473.2  | 472.7  | 472.2  | 472.4  | 472.7  | 472.9  | 473.2  | 473.2  |
| 117.5° | 528.6  | 528.5  | 528.0  | 527.5  | 527.0  | 526.5  | 526.5  | 526.5  | 526.5  | 526.5  | 526.1  |
| 120°   | 585.6  | 585.7  | 584.5  | 583.3  | 582.1  | 580.8  | 580.6  | 580.3  | 580.1  | 579.8  | 579.5  |
| 122.5° | 638.0  | 638.2  | 637.7  | 637.2  | 636.7  | 636.2  | 635.5  | 634.8  | 634.0  | 633.3  | 632.5  |
| 125°   | 692.4  | 692.5  | 692.0  | 691.5  | 691.0  | 690.6  | 689.6  | 688.6  | 687.6  | 686.6  | 685.6  |
| 127.5° | 746.3  | 746.8  | 746.3  | 745.9  | 745.4  | 744.9  | 743.4  | 741.9  | 740.4  | 739.0  | 737.7  |
| 130°   | 799.3  | 799.9  | 799.2  | 798.4  | 797.7  | 797.0  | 796.0  | 795.0  | 794.0  | 793.0  | 791.7  |
| 132.5° | 850.3  | 851.0  | 850.5  | 850.0  | 849.6  | 849.1  | 847.8  | 846.6  | 845.4  | 844.1  | 842.9  |
| 135°   | 900.4  | 901.0  | 900.8  | 900.5  | 900.3  | 900.0  | 899.1  | 898.1  | 897.1  | 896.1  | 895.4  |
| 137.5° | 947.1  | 948.1  | 948.8  | 949.6  | 950.3  | 951.0  | 949.8  | 948.6  | 947.3  | 946.1  | 945.1  |
| 140°   | 997.0  | 997.7  | 998.0  | 998.2  | 998.5  | 998.7  | 998.5  | 998.2  | 998.0  | 997.7  | 996.7  |
| 142.5° | 1042.4 | 1043.3 | 1043.8 | 1044.3 | 1044.8 | 1045.3 | 1045.0 | 1044.8 | 1044.5 | 1044.3 | 1043.5 |
| 145°   | 1087.1 | 1087.7 | 1088.5 | 1089.2 | 1090.0 | 1090.7 | 1090.5 | 1090.2 | 1090.0 | 1089.7 | 1089.1 |
| 147.5° | 1130.1 | 1131.0 | 1131.7 | 1132.5 | 1133.2 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.9 | 1133.2 |
| 150°   | 1171.4 | 1171.9 | 1172.4 | 1172.8 | 1173.3 | 1173.8 | 1173.8 | 1173.8 | 1173.8 | 1173.8 | 1173.1 |
| 152.5° | 1207.8 | 1208.3 | 1208.6 | 1208.8 | 1209.1 | 1209.3 | 1209.8 | 1210.3 | 1210.8 | 1211.3 | 1210.9 |
| 155°   | 1242.6 | 1242.7 | 1242.9 | 1243.2 | 1243.4 | 1243.7 | 1244.6 | 1245.6 | 1246.6 | 1247.6 | 1247.2 |
| 157.5° | 1273.7 | 1273.7 | 1274.0 | 1274.2 | 1274.5 | 1274.7 | 1275.7 | 1276.7 | 1277.7 | 1278.6 | 1278.4 |
| 160°   | 1302.7 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1303.6 | 1304.9 | 1306.1 | 1307.3 | 1307.5 |
| 162.5° | 1328.3 | 1328.0 | 1328.3 | 1328.5 | 1328.8 | 1329.0 | 1330.2 | 1331.5 | 1332.7 | 1333.9 | 1333.7 |
| 165°   | 1350.4 | 1350.1 | 1350.1 | 1350.1 | 1350.1 | 1350.1 | 1351.6 | 1353.0 | 1354.5 | 1356.0 | 1355.9 |
| 167.5° | 1368.3 | 1367.9 | 1368.2 | 1368.4 | 1368.7 | 1368.9 | 1370.4 | 1371.9 | 1373.4 | 1374.8 | 1374.8 |
| 170°   | 1383.8 | 1383.3 | 1383.3 | 1383.3 | 1383.3 | 1383.3 | 1385.1 | 1386.8 | 1388.5 | 1390.2 | 1390.2 |
| 172.5° | 1396.0 | 1395.5 | 1395.5 | 1395.5 | 1395.5 | 1395.5 | 1397.0 | 1398.5 | 1400.0 | 1401.4 | 1401.3 |
| 175°   | 1403.8 | 1403.3 | 1403.3 | 1403.3 | 1403.3 | 1403.3 | 1404.8 | 1406.2 | 1407.7 | 1409.2 | 1409.1 |
| 177.5° | 1408.2 | 1407.7 | 1407.7 | 1407.7 | 1407.7 | 1407.7 | 1409.2 | 1410.7 | 1412.1 | 1413.6 | 1413.5 |
| 180°   | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 2104.9 | 2104.9 | 2104.9 | 2104.9 |
| 2.5°   | 1870.9 | 1867.5 | 1853.8 | 1840.2 |
| 5°     | 1586.2 | 1574.5 | 1570.6 | 1566.7 |
| 7.5°   | 1386.0 | 1385.0 | 1364.5 | 1344.0 |
| 10°    | 1209.7 | 1211.1 | 1192.6 | 1174.0 |
| 12.5°  | 1083.7 | 1071.5 | 1070.0 | 1068.5 |
| 15°    | 988.9  | 977.7  | 975.8  | 973.8  |
| 17.5°  | 922.0  | 915.2  | 913.2  | 911.3  |
| 20°    | 871.2  | 867.3  | 863.9  | 860.5  |
| 22.5°  | 827.3  | 822.4  | 819.5  | 816.5  |
| 25°    | 784.8  | 780.4  | 779.4  | 778.5  |
| 27.5°  | 746.7  | 741.3  | 741.3  | 741.3  |
| 30°    | 710.6  | 707.2  | 705.7  | 704.2  |
| 32.5°  | 676.9  | 673.9  | 673.9  | 673.9  |
| 35°    | 645.1  | 643.7  | 641.7  | 639.8  |
| 37.5°  | 616.3  | 616.3  | 615.3  | 614.4  |
| 40°    | 588.5  | 589.9  | 589.9  | 589.9  |
| 42.5°  | 563.1  | 564.6  | 564.6  | 564.6  |
| 45°    | 536.7  | 539.2  | 540.1  | 541.1  |
| 47.5°  | 510.8  | 514.7  | 515.7  | 516.7  |
| 50°    | 485.4  | 488.4  | 488.9  | 489.3  |
| 52.5°  | 459.6  | 463.0  | 465.4  | 467.9  |
| 55°    | 432.2  | 435.6  | 437.1  | 438.6  |
| 57.5°  | 402.9  | 406.3  | 406.8  | 407.3  |
| 60°    | 370.7  | 374.1  | 375.1  | 376.0  |
| 62.5°  | 339.9  | 341.9  | 342.8  | 343.8  |
| 65°    | 304.7  | 307.7  | 309.6  | 311.6  |
| 67.5°  | 271.0  | 273.5  | 273.5  | 273.5  |
| 70°    | 233.4  | 234.4  | 235.9  | 237.3  |
| 72.5°  | 198.8  | 199.3  | 199.3  | 199.3  |
| 75°    | 162.1  | 163.1  | 163.6  | 164.1  |
| 77.5°  | 127.5  | 128.0  | 128.0  | 128.0  |
| 80°    | 93.3   | 92.8   | 92.8   | 92.8   |
| 82.5°  | 64.0   | 62.5   | 62.5   | 62.5   |
| 85°    | 36.6   | 36.1   | 36.6   | 37.1   |
| 87.5°  | 16.6   | 16.6   | 16.6   | 16.6   |
| 90°    | 31.8   | 32.3   | 32.8   | 33.3   |
| 92.5°  | 49.1   | 48.6   | 48.2   | 47.7   |
| 95°    | 86.5   | 86.5   | 86.5   | 86.5   |
| 97.5°  | 124.9  | 124.6  | 124.4  | 124.1  |
| 100°   | 167.0  | 167.5  | 168.0  | 168.5  |
| 102.5° | 214.7  | 214.4  | 214.2  | 213.9  |
| 105°   | 262.3  | 262.8  | 263.3  | 263.8  |
| 107.5° | 315.5  | 315.3  | 315.0  | 314.8  |
| 110°   | 368.4  | 367.9  | 367.4  | 366.9  |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 422.3  | 422.3  | 422.3  | 422.3  |
| 115°   | 472.9  | 472.7  | 472.4  | 472.2  |
| 117.5° | 525.4  | 524.7  | 523.9  | 523.2  |
| 120°   | 579.0  | 578.5  | 578.0  | 577.5  |
| 122.5° | 631.8  | 631.1  | 630.3  | 629.6  |
| 125°   | 684.6  | 683.7  | 682.7  | 681.7  |
| 127.5° | 736.7  | 735.8  | 734.8  | 733.8  |
| 130°   | 789.9  | 788.2  | 786.5  | 784.8  |
| 132.5° | 841.7  | 840.4  | 839.2  | 838.0  |
| 135°   | 894.9  | 894.4  | 893.9  | 893.4  |
| 137.5° | 944.4  | 943.6  | 942.9  | 942.2  |
| 140°   | 995.0  | 993.3  | 991.6  | 989.8  |
| 142.5° | 1042.3 | 1041.1 | 1039.8 | 1038.6 |
| 145°   | 1088.1 | 1087.1 | 1086.1 | 1085.2 |
| 147.5° | 1131.7 | 1130.2 | 1128.8 | 1127.3 |
| 150°   | 1171.6 | 1170.1 | 1168.7 | 1167.2 |
| 152.5° | 1209.7 | 1208.4 | 1207.2 | 1206.0 |
| 155°   | 1245.5 | 1243.8 | 1242.1 | 1240.3 |
| 157.5° | 1276.9 | 1275.4 | 1274.0 | 1272.5 |
| 160°   | 1306.5 | 1305.5 | 1304.5 | 1303.5 |
| 162.5° | 1332.0 | 1330.2 | 1328.5 | 1326.8 |
| 165°   | 1354.1 | 1352.4 | 1350.7 | 1349.0 |
| 167.5° | 1373.4 | 1371.9 | 1370.4 | 1368.9 |
| 170°   | 1388.5 | 1386.8 | 1385.1 | 1383.3 |
| 172.5° | 1399.6 | 1397.9 | 1396.1 | 1394.4 |
| 175°   | 1407.3 | 1405.6 | 1403.9 | 1402.2 |
| 177.5° | 1411.8 | 1410.1 | 1408.3 | 1406.6 |
| 180°   | 1411.0 | 1411.0 | 1411.0 | 1411.0 |

TEST NUMBER: P831637

CATALOG NUMBER: S123DIP-S775D1195U950-4F0-1E-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 | 14.06            | 14.86 | 15.06 | 15.86 | 17.19 | 16.30          | 17.10 | 17.29 | 18.10 | 19.42 |
|                 | 3H   | 15.71            | 16.42 | 16.71 | 17.43 | 18.78 | 17.72          | 18.43 | 18.73 | 19.44 | 20.79 |
|                 | 4H   | 16.28            | 16.96 | 17.30 | 17.97 | 19.32 | 18.17          | 18.84 | 19.19 | 19.86 | 21.21 |
|                 | 6H   | 16.65            | 17.27 | 17.68 | 18.29 | 19.65 | 18.44          | 19.06 | 19.47 | 20.08 | 21.45 |
|                 | 8H   | 16.74            | 17.33 | 17.78 | 18.37 | 19.73 | 18.50          | 19.09 | 19.53 | 20.13 | 21.49 |
|                 | 12H  | 16.79            | 17.35 | 17.82 | 18.38 | 19.76 | 18.52          | 19.08 | 19.56 | 20.11 | 21.49 |
| 4H              | 2H   | 14.63            | 15.31 | 15.65 | 16.32 | 17.67 | 16.46          | 17.13 | 17.48 | 18.15 | 19.50 |
|                 | 3H   | 16.45            | 17.02 | 17.49 | 18.06 | 19.43 | 18.07          | 18.63 | 19.10 | 19.67 | 21.04 |
|                 | 4H   | 17.15            | 17.66 | 18.19 | 18.70 | 20.09 | 18.65          | 19.17 | 19.69 | 20.20 | 21.59 |
|                 | 6H   | 17.62            | 18.06 | 18.67 | 19.12 | 20.51 | 19.05          | 19.49 | 20.10 | 20.55 | 21.94 |
|                 | 8H   | 17.76            | 18.17 | 18.81 | 19.22 | 20.62 | 19.16          | 19.58 | 20.21 | 20.62 | 22.02 |
|                 | 12H  | 17.82            | 18.19 | 18.89 | 19.26 | 20.66 | 19.20          | 19.58 | 20.27 | 20.64 | 22.05 |
| 8H              | 4H   | 17.41            | 17.82 | 18.46 | 18.87 | 20.27 | 18.75          | 19.16 | 19.80 | 20.21 | 21.61 |
|                 | 6H   | 18.00            | 18.34 | 19.07 | 19.43 | 20.83 | 19.25          | 19.59 | 20.33 | 20.68 | 22.08 |
|                 | 8H   | 18.21            | 18.50 | 19.29 | 19.58 | 21.00 | 19.43          | 19.73 | 20.51 | 20.81 | 22.22 |
|                 | 12H  | 18.33            | 18.59 | 19.41 | 19.66 | 21.12 | 19.53          | 19.79 | 20.61 | 20.86 | 22.32 |
| 12H             | 4H   | 17.41            | 17.78 | 18.48 | 18.85 | 20.25 | 18.72          | 19.10 | 19.79 | 20.16 | 21.57 |
|                 | 6H   | 18.05            | 18.35 | 19.13 | 19.42 | 20.84 | 19.27          | 19.56 | 20.35 | 20.64 | 22.06 |
|                 | 8H   | 18.28            | 18.54 | 19.36 | 19.61 | 21.07 | 19.46          | 19.73 | 20.55 | 20.80 | 22.25 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

14 of 14