

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: P831679

Luminaire Tested: S123DIP-S775D585U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831679  
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-S775D585U927-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

**Summary**

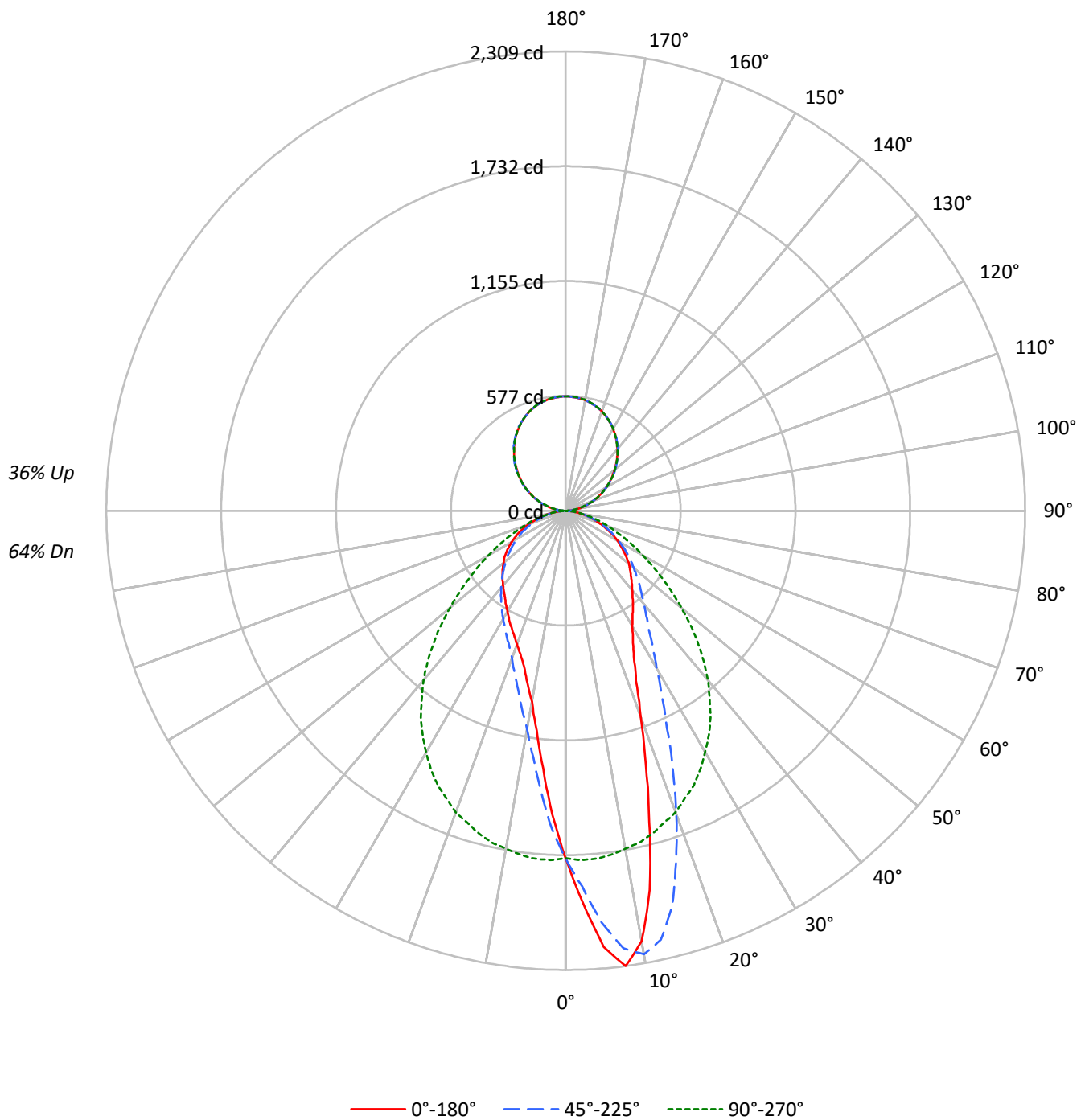
Lumens per Lamp: N/A  
Luminaire Lumens: 4404.7 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P831679

CATALOG NUMBER: S123DIP-S775D585U927-4F0-1E-UDD-G1

### Luminous Intensity Polar Plot



TEST NUMBER: P831679

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 79 | 79 | 79 | 69 | 69 | 69 | 64 |    |    |
| 1   | 102 | 97  | 94  | 90  | 95  | 92  | 88  | 85  | 81 | 78 | 76 | 71 | 69 | 68 | 62 | 61 | 59 | 55 |    |    |
| 2   | 93  | 86  | 80  | 75  | 87  | 81  | 76  | 71  | 72 | 68 | 64 | 63 | 60 | 58 | 55 | 53 | 51 | 47 |    |    |
| 3   | 85  | 76  | 69  | 63  | 80  | 72  | 66  | 61  | 64 | 59 | 55 | 57 | 53 | 50 | 50 | 47 | 44 | 41 |    |    |
| 4   | 79  | 68  | 60  | 55  | 74  | 64  | 58  | 52  | 58 | 52 | 48 | 51 | 47 | 43 | 45 | 42 | 39 | 36 |    |    |
| 5   | 73  | 61  | 53  | 48  | 68  | 58  | 51  | 46  | 52 | 46 | 42 | 46 | 42 | 38 | 41 | 38 | 35 | 32 |    |    |
| 6   | 67  | 56  | 48  | 42  | 63  | 53  | 46  | 40  | 47 | 42 | 37 | 42 | 38 | 34 | 38 | 34 | 31 | 29 |    |    |
| 7   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 36  | 43 | 38 | 33 | 39 | 34 | 31 | 35 | 31 | 28 | 26 |    |    |
| 8   | 58  | 46  | 39  | 34  | 55  | 44  | 37  | 32  | 40 | 34 | 30 | 36 | 31 | 28 | 32 | 28 | 26 | 23 |    |    |
| 9   | 55  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 29 | 25 | 30 | 26 | 23 | 21 |    |    |
| 10  | 51  | 39  | 32  | 28  | 48  | 38  | 31  | 27  | 34 | 29 | 25 | 31 | 27 | 23 | 28 | 24 | 22 | 20 |    |    |

**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  | 3.8       |
| 10°-20°   | 411.1  | 9.3       |
| 20°-30°   | 486.7  | 11.1      |
| 30°-40°   | 489.4  | 11.1      |
| 40°-50°   | 449.0  | 10.2      |
| 50°-60°   | 370.6  | 8.4       |
| 60°-70°   | 262.2  | 6.0       |
| 70°-80°   | 139.9  | 3.2       |
| 80°-90°   | 36.7   | 0.8       |
| 90°-100°  | 37.0   | 0.8       |
| 100°-110° | 112.1  | 2.5       |
| 110°-120° | 190.8  | 4.3       |
| 120°-130° | 251.0  | 5.7       |
| 130°-140° | 282.1  | 6.4       |
| 140°-150° | 277.4  | 6.3       |
| 150°-160° | 233.5  | 5.3       |
| 160°-170° | 155.5  | 3.5       |
| 170°-180° | 54.4   | 1.2       |
| 0°-30°    | 1063.1 | 24.1      |
| 0°-40°    | 1552.5 | 35.2      |
| 0°-60°    | 2372.1 | 53.9      |
| 0°-90°    | 2810.9 | 63.8      |
| 90°-120°  | 339.9  | 7.7       |
| 90°-150°  | 1150.4 | 26.1      |
| 90°-180°  | 1594.0 | 36.2      |
| 0°-180°   | 4404.7 | 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°  | 14   | 11   | 0    | 11   | 14   | 8    |
| 95°  | 35   | 33   | 27   | 33   | 35   | 35   |
| 105° | 108  | 107  | 102  | 107  | 108  | 114  |
| 115° | 192  | 192  | 192  | 192  | 192  | 191  |
| 125° | 278  | 282  | 281  | 282  | 278  | 249  |
| 135° | 364  | 367  | 365  | 367  | 364  | 280  |
| 145° | 442  | 445  | 442  | 445  | 442  | 276  |
| 155° | 506  | 507  | 506  | 507  | 506  | 233  |
| 165° | 550  | 550  | 552  | 550  | 550  | 155  |
| 175° | 572  | 572  | 574  | 572  | 572  | 54   |
| 180° | 575  | 575  | 575  | 575  | 575  |      |

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**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°    | 13.6   | 13.4   | 13.2   | 13.0   | 12.8   | 12.5   | 12.0   | 11.6   | 11.2   | 10.8   | 9.5    |
| 92.5°  | 19.4   | 19.6   | 19.8   | 20.0   | 20.2   | 20.2   | 19.9   | 19.6   | 19.3   | 19.0   | 18.4   |
| 95°    | 35.2   | 35.2   | 35.2   | 35.2   | 35.2   | 35.0   | 34.6   | 34.2   | 33.8   | 33.4   | 32.6   |
| 97.5°  | 50.6   | 50.7   | 50.8   | 50.9   | 51.0   | 50.8   | 50.3   | 49.8   | 49.3   | 48.8   | 48.2   |
| 100°   | 68.7   | 68.5   | 68.3   | 68.1   | 67.9   | 67.6   | 67.3   | 67.0   | 66.7   | 66.4   | 65.9   |
| 102.5° | 87.2   | 87.3   | 87.4   | 87.5   | 87.6   | 87.5   | 87.2   | 86.9   | 86.6   | 86.3   | 85.6   |
| 105°   | 107.5  | 107.3  | 107.1  | 106.9  | 106.7  | 106.6  | 106.6  | 106.6  | 106.6  | 106.6  | 105.7  |
| 107.5° | 128.3  | 128.4  | 128.5  | 128.6  | 128.7  | 128.6  | 128.3  | 128.0  | 127.7  | 127.4  | 127.0  |
| 110°   | 149.6  | 149.8  | 150.0  | 150.2  | 150.4  | 150.3  | 149.9  | 149.5  | 149.1  | 148.7  | 148.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 172.2 | 172.2 | 172.2 | 172.2 | 172.2 | 171.9 | 171.4 | 170.9 | 170.4 | 169.9 | 169.9 |
| 115°   | 192.5 | 192.6 | 192.7 | 192.8 | 192.9 | 192.9 | 192.8 | 192.7 | 192.6 | 192.5 | 192.7 |
| 117.5° | 213.3 | 213.6 | 213.9 | 214.2 | 214.5 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.8 |
| 120°   | 235.4 | 235.6 | 235.8 | 236.0 | 236.2 | 236.4 | 236.5 | 236.6 | 236.7 | 236.8 | 237.3 |
| 122.5° | 256.7 | 257.0 | 257.3 | 257.6 | 257.9 | 258.2 | 258.5 | 258.8 | 259.1 | 259.4 | 259.6 |
| 125°   | 277.9 | 278.3 | 278.7 | 279.1 | 279.5 | 279.9 | 280.3 | 280.7 | 281.1 | 281.5 | 281.7 |
| 127.5° | 299.1 | 299.5 | 299.9 | 300.3 | 300.7 | 301.2 | 301.8 | 302.4 | 303.0 | 303.6 | 303.8 |
| 130°   | 319.9 | 320.6 | 321.3 | 322.0 | 322.7 | 323.3 | 323.7 | 324.1 | 324.5 | 324.9 | 325.2 |
| 132.5° | 341.6 | 342.1 | 342.6 | 343.1 | 343.6 | 344.1 | 344.6 | 345.1 | 345.6 | 346.1 | 346.3 |
| 135°   | 364.2 | 364.4 | 364.6 | 364.8 | 365.0 | 365.3 | 365.7 | 366.1 | 366.5 | 366.9 | 367.0 |
| 137.5° | 384.1 | 384.4 | 384.7 | 385.0 | 385.3 | 385.7 | 386.2 | 386.7 | 387.2 | 387.7 | 387.4 |
| 140°   | 403.5 | 404.2 | 404.9 | 405.6 | 406.3 | 406.7 | 406.8 | 406.9 | 407.0 | 407.1 | 407.0 |
| 142.5° | 423.4 | 423.9 | 424.4 | 424.9 | 425.4 | 425.7 | 425.8 | 425.9 | 426.0 | 426.1 | 425.9 |
| 145°   | 442.4 | 442.8 | 443.2 | 443.6 | 444.0 | 444.2 | 444.3 | 444.4 | 444.5 | 444.6 | 444.3 |
| 147.5° | 459.5 | 460.1 | 460.7 | 461.3 | 461.9 | 462.2 | 462.2 | 462.2 | 462.2 | 462.2 | 461.9 |
| 150°   | 475.8 | 476.4 | 477.0 | 477.6 | 478.2 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.3 |
| 152.5° | 491.6 | 492.1 | 492.6 | 493.1 | 493.6 | 493.8 | 493.6 | 493.4 | 493.2 | 493.0 | 492.9 |
| 155°   | 505.6 | 506.3 | 507.0 | 507.7 | 508.4 | 508.6 | 508.2 | 507.8 | 507.4 | 507.0 | 506.9 |
| 157.5° | 518.7 | 519.3 | 519.9 | 520.5 | 521.1 | 521.2 | 520.8 | 520.4 | 520.0 | 519.6 | 519.5 |
| 160°   | 531.4 | 531.8 | 532.2 | 532.6 | 533.0 | 532.9 | 532.4 | 531.9 | 531.4 | 530.9 | 530.9 |
| 162.5° | 540.9 | 541.6 | 542.3 | 543.0 | 543.7 | 543.8 | 543.3 | 542.8 | 542.3 | 541.8 | 541.7 |
| 165°   | 549.9 | 550.6 | 551.3 | 552.0 | 552.7 | 552.8 | 552.2 | 551.6 | 551.0 | 550.4 | 550.4 |
| 167.5° | 558.0 | 558.6 | 559.2 | 559.8 | 560.4 | 560.4 | 559.8 | 559.2 | 558.6 | 558.0 | 557.9 |
| 170°   | 563.9 | 564.6 | 565.3 | 566.0 | 566.7 | 566.7 | 566.0 | 565.3 | 564.6 | 563.9 | 563.9 |
| 172.5° | 568.4 | 569.1 | 569.8 | 570.5 | 571.2 | 571.3 | 570.7 | 570.1 | 569.5 | 568.9 | 568.9 |
| 175°   | 571.6 | 572.3 | 573.0 | 573.7 | 574.4 | 574.5 | 573.9 | 573.3 | 572.6 | 572.0 | 572.0 |
| 177.5° | 573.4 | 574.1 | 574.8 | 575.5 | 576.2 | 576.3 | 575.7 | 575.1 | 574.5 | 573.9 | 573.9 |
| 180°   | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |

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**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°    | 8.2    | 6.9    | 5.6    | 4.5    | 3.5    | 2.5    | 1.5    | 0.5    | 1.5    | 2.5    | 3.5    |
| 92.5°  | 17.8   | 17.2   | 16.6   | 16.0   | 15.4   | 14.8   | 14.2   | 13.6   | 14.2   | 14.8   | 15.4   |
| 95°    | 31.8   | 31.0   | 30.2   | 29.5   | 28.8   | 28.1   | 27.4   | 26.7   | 27.4   | 28.1   | 28.8   |
| 97.5°  | 47.6   | 47.0   | 46.4   | 45.8   | 45.3   | 44.8   | 44.3   | 43.8   | 44.3   | 44.8   | 45.3   |
| 100°   | 65.4   | 64.9   | 64.4   | 63.9   | 63.3   | 62.7   | 62.1   | 61.5   | 62.1   | 62.7   | 63.3   |
| 102.5° | 84.9   | 84.2   | 83.5   | 83.0   | 82.7   | 82.4   | 82.1   | 81.8   | 82.1   | 82.4   | 82.7   |
| 105°   | 104.8  | 103.9  | 103.0  | 102.5  | 102.3  | 102.1  | 101.9  | 101.7  | 101.9  | 102.1  | 102.3  |
| 107.5° | 126.6  | 126.2  | 125.8  | 125.6  | 125.5  | 125.4  | 125.3  | 125.2  | 125.3  | 125.4  | 125.5  |
| 110°   | 148.3  | 148.1  | 147.9  | 147.7  | 147.5  | 147.3  | 147.1  | 146.9  | 147.1  | 147.3  | 147.5  |

TEST NUMBER: P831679

CATALOG NUMBER: S123DIP-S775D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.9 | 169.9 | 169.9 | 169.8 | 169.7 | 169.6 | 169.5 | 169.4 | 169.5 | 169.6 | 169.7 |
| 115°   | 192.9 | 193.1 | 193.3 | 193.2 | 192.9 | 192.6 | 192.3 | 192.0 | 192.3 | 192.6 | 192.9 |
| 117.5° | 215.0 | 215.2 | 215.4 | 215.5 | 215.4 | 215.3 | 215.2 | 215.1 | 215.2 | 215.3 | 215.4 |
| 120°   | 237.8 | 238.3 | 238.8 | 238.7 | 238.1 | 237.5 | 236.9 | 236.3 | 236.9 | 237.5 | 238.1 |
| 122.5° | 259.8 | 260.0 | 260.2 | 260.1 | 259.7 | 259.3 | 258.9 | 258.5 | 258.9 | 259.3 | 259.7 |
| 125°   | 281.9 | 282.1 | 282.3 | 282.3 | 282.0 | 281.7 | 281.4 | 281.1 | 281.4 | 281.7 | 282.0 |
| 127.5° | 304.0 | 304.2 | 304.4 | 304.2 | 303.6 | 303.0 | 302.4 | 301.8 | 302.4 | 303.0 | 303.6 |
| 130°   | 325.5 | 325.8 | 326.1 | 325.8 | 325.0 | 324.2 | 323.4 | 322.6 | 323.4 | 324.2 | 325.0 |
| 132.5° | 346.5 | 346.7 | 346.9 | 346.6 | 345.8 | 345.0 | 344.2 | 343.4 | 344.2 | 345.0 | 345.8 |
| 135°   | 367.1 | 367.2 | 367.3 | 367.1 | 366.5 | 365.9 | 365.2 | 364.6 | 365.2 | 365.9 | 366.5 |
| 137.5° | 387.1 | 386.8 | 386.5 | 386.1 | 385.6 | 385.1 | 384.6 | 384.1 | 384.6 | 385.1 | 385.6 |
| 140°   | 406.9 | 406.8 | 406.7 | 406.4 | 405.9 | 405.4 | 404.9 | 404.4 | 404.9 | 405.4 | 405.9 |
| 142.5° | 425.7 | 425.5 | 425.3 | 424.9 | 424.4 | 423.9 | 423.4 | 422.9 | 423.4 | 423.9 | 424.4 |
| 145°   | 444.0 | 443.7 | 443.4 | 443.2 | 443.0 | 442.8 | 442.6 | 442.4 | 442.6 | 442.8 | 443.0 |
| 147.5° | 461.6 | 461.3 | 461.0 | 460.7 | 460.3 | 459.9 | 459.5 | 459.1 | 459.5 | 459.9 | 460.3 |
| 150°   | 478.1 | 477.9 | 477.7 | 477.5 | 477.3 | 477.1 | 476.9 | 476.7 | 476.9 | 477.1 | 477.3 |
| 152.5° | 492.8 | 492.7 | 492.6 | 492.4 | 492.1 | 491.8 | 491.5 | 491.2 | 491.5 | 491.8 | 492.1 |
| 155°   | 506.8 | 506.7 | 506.6 | 506.5 | 506.5 | 506.5 | 506.5 | 506.5 | 506.5 | 506.5 | 506.5 |
| 157.5° | 519.4 | 519.3 | 519.2 | 519.2 | 519.3 | 519.4 | 519.5 | 519.6 | 519.5 | 519.4 | 519.3 |
| 160°   | 530.9 | 530.9 | 530.9 | 531.0 | 531.2 | 531.4 | 531.6 | 531.8 | 531.6 | 531.4 | 531.2 |
| 162.5° | 541.6 | 541.5 | 541.4 | 541.5 | 541.8 | 542.1 | 542.4 | 542.7 | 542.4 | 542.1 | 541.8 |
| 165°   | 550.4 | 550.4 | 550.4 | 550.5 | 550.8 | 551.1 | 551.4 | 551.7 | 551.4 | 551.1 | 550.8 |
| 167.5° | 557.8 | 557.7 | 557.6 | 557.8 | 558.2 | 558.6 | 559.0 | 559.4 | 559.0 | 558.6 | 558.2 |
| 170°   | 563.9 | 563.9 | 563.9 | 564.1 | 564.5 | 564.9 | 565.3 | 565.7 | 565.3 | 564.9 | 564.5 |
| 172.5° | 568.9 | 568.9 | 568.9 | 569.1 | 569.5 | 569.9 | 570.3 | 570.7 | 570.3 | 569.9 | 569.5 |
| 175°   | 572.0 | 572.0 | 572.0 | 572.2 | 572.6 | 573.0 | 573.5 | 573.9 | 573.5 | 573.0 | 572.6 |
| 177.5° | 573.9 | 573.9 | 573.9 | 574.1 | 574.5 | 574.9 | 575.3 | 575.7 | 575.3 | 574.9 | 574.5 |
| 180°   | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |

TEST NUMBER: P831679

CATALOG NUMBER: S123DIP-S775D585U927-4F0-1E-UDD-G1

**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°    | 4.5    | 5.6    | 6.9    | 8.2    | 9.5    | 10.8   | 11.2   | 11.6   | 12.0   | 12.5   | 12.8   |
| 92.5°  | 16.0   | 16.6   | 17.2   | 17.8   | 18.4   | 19.0   | 19.3   | 19.6   | 19.9   | 20.2   | 20.2   |
| 95°    | 29.5   | 30.2   | 31.0   | 31.8   | 32.6   | 33.4   | 33.8   | 34.2   | 34.6   | 35.0   | 35.2   |
| 97.5°  | 45.8   | 46.4   | 47.0   | 47.6   | 48.2   | 48.8   | 49.3   | 49.8   | 50.3   | 50.8   | 51.0   |
| 100°   | 63.9   | 64.4   | 64.9   | 65.4   | 65.9   | 66.4   | 66.7   | 67.0   | 67.3   | 67.6   | 67.9   |
| 102.5° | 83.0   | 83.5   | 84.2   | 84.9   | 85.6   | 86.3   | 86.6   | 86.9   | 87.2   | 87.5   | 87.6   |
| 105°   | 102.5  | 103.0  | 103.9  | 104.8  | 105.7  | 106.6  | 106.6  | 106.6  | 106.6  | 106.6  | 106.7  |
| 107.5° | 125.6  | 125.8  | 126.2  | 126.6  | 127.0  | 127.4  | 127.7  | 128.0  | 128.3  | 128.6  | 128.7  |
| 110°   | 147.7  | 147.9  | 148.1  | 148.3  | 148.5  | 148.7  | 149.1  | 149.5  | 149.9  | 150.3  | 150.4  |

TEST NUMBER: P831679

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**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.8 | 169.9 | 169.9 | 169.9 | 169.9 | 169.9 | 170.4 | 170.9 | 171.4 | 171.9 | 172.2 |
| 115°   | 193.2 | 193.3 | 193.1 | 192.9 | 192.7 | 192.5 | 192.6 | 192.7 | 192.8 | 192.9 | 192.9 |
| 117.5° | 215.5 | 215.4 | 215.2 | 215.0 | 214.8 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.5 |
| 120°   | 238.7 | 238.8 | 238.3 | 237.8 | 237.3 | 236.8 | 236.7 | 236.6 | 236.5 | 236.4 | 236.2 |
| 122.5° | 260.1 | 260.2 | 260.0 | 259.8 | 259.6 | 259.4 | 259.1 | 258.8 | 258.5 | 258.2 | 257.9 |
| 125°   | 282.3 | 282.3 | 282.1 | 281.9 | 281.7 | 281.5 | 281.1 | 280.7 | 280.3 | 279.9 | 279.5 |
| 127.5° | 304.2 | 304.4 | 304.2 | 304.0 | 303.8 | 303.6 | 303.0 | 302.4 | 301.8 | 301.2 | 300.7 |
| 130°   | 325.8 | 326.1 | 325.8 | 325.5 | 325.2 | 324.9 | 324.5 | 324.1 | 323.7 | 323.3 | 322.7 |
| 132.5° | 346.6 | 346.9 | 346.7 | 346.5 | 346.3 | 346.1 | 345.6 | 345.1 | 344.6 | 344.1 | 343.6 |
| 135°   | 367.1 | 367.3 | 367.2 | 367.1 | 367.0 | 366.9 | 366.5 | 366.1 | 365.7 | 365.3 | 365.0 |
| 137.5° | 386.1 | 386.5 | 386.8 | 387.1 | 387.4 | 387.7 | 387.2 | 386.7 | 386.2 | 385.7 | 385.3 |
| 140°   | 406.4 | 406.7 | 406.8 | 406.9 | 407.0 | 407.1 | 407.0 | 406.9 | 406.8 | 406.7 | 406.3 |
| 142.5° | 424.9 | 425.3 | 425.5 | 425.7 | 425.9 | 426.1 | 426.0 | 425.9 | 425.8 | 425.7 | 425.4 |
| 145°   | 443.2 | 443.4 | 443.7 | 444.0 | 444.3 | 444.6 | 444.5 | 444.4 | 444.3 | 444.2 | 444.0 |
| 147.5° | 460.7 | 461.0 | 461.3 | 461.6 | 461.9 | 462.2 | 462.2 | 462.2 | 462.2 | 462.2 | 461.9 |
| 150°   | 477.5 | 477.7 | 477.9 | 478.1 | 478.3 | 478.5 | 478.5 | 478.5 | 478.5 | 478.5 | 478.2 |
| 152.5° | 492.4 | 492.6 | 492.7 | 492.8 | 492.9 | 493.0 | 493.2 | 493.4 | 493.6 | 493.8 | 493.6 |
| 155°   | 506.5 | 506.6 | 506.7 | 506.8 | 506.9 | 507.0 | 507.4 | 507.8 | 508.2 | 508.6 | 508.4 |
| 157.5° | 519.2 | 519.2 | 519.3 | 519.4 | 519.5 | 519.6 | 520.0 | 520.4 | 520.8 | 521.2 | 521.1 |
| 160°   | 531.0 | 530.9 | 530.9 | 530.9 | 530.9 | 530.9 | 531.4 | 531.9 | 532.4 | 532.9 | 533.0 |
| 162.5° | 541.5 | 541.4 | 541.5 | 541.6 | 541.7 | 541.8 | 542.3 | 542.8 | 543.3 | 543.8 | 543.7 |
| 165°   | 550.5 | 550.4 | 550.4 | 550.4 | 550.4 | 550.4 | 551.0 | 551.6 | 552.2 | 552.8 | 552.7 |
| 167.5° | 557.8 | 557.6 | 557.7 | 557.8 | 557.9 | 558.0 | 558.6 | 559.2 | 559.8 | 560.4 | 560.4 |
| 170°   | 564.1 | 563.9 | 563.9 | 563.9 | 563.9 | 563.9 | 564.6 | 565.3 | 566.0 | 566.7 | 566.7 |
| 172.5° | 569.1 | 568.9 | 568.9 | 568.9 | 568.9 | 568.9 | 569.5 | 570.1 | 570.7 | 571.3 | 571.2 |
| 175°   | 572.2 | 572.0 | 572.0 | 572.0 | 572.0 | 572.0 | 572.6 | 573.3 | 573.9 | 574.5 | 574.4 |
| 177.5° | 574.1 | 573.9 | 573.9 | 573.9 | 573.9 | 573.9 | 574.5 | 575.1 | 575.7 | 576.3 | 576.2 |
| 180°   | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |

TEST NUMBER: P831679

CATALOG NUMBER: S123DIP-S775D585U927-4F0-1E-UDD-G1

**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°    | 13.0   | 13.2   | 13.4   | 13.6   |
| 92.5°  | 20.0   | 19.8   | 19.6   | 19.4   |
| 95°    | 35.2   | 35.2   | 35.2   | 35.2   |
| 97.5°  | 50.9   | 50.8   | 50.7   | 50.6   |
| 100°   | 68.1   | 68.3   | 68.5   | 68.7   |
| 102.5° | 87.5   | 87.4   | 87.3   | 87.2   |
| 105°   | 106.9  | 107.1  | 107.3  | 107.5  |
| 107.5° | 128.6  | 128.5  | 128.4  | 128.3  |
| 110°   | 150.2  | 150.0  | 149.8  | 149.6  |



TEST NUMBER: P831679

CATALOG NUMBER: S123DIP-S775D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 172.2 | 172.2 | 172.2 | 172.2 |
| 115°   | 192.8 | 192.7 | 192.6 | 192.5 |
| 117.5° | 214.2 | 213.9 | 213.6 | 213.3 |
| 120°   | 236.0 | 235.8 | 235.6 | 235.4 |
| 122.5° | 257.6 | 257.3 | 257.0 | 256.7 |
| 125°   | 279.1 | 278.7 | 278.3 | 277.9 |
| 127.5° | 300.3 | 299.9 | 299.5 | 299.1 |
| 130°   | 322.0 | 321.3 | 320.6 | 319.9 |
| 132.5° | 343.1 | 342.6 | 342.1 | 341.6 |
| 135°   | 364.8 | 364.6 | 364.4 | 364.2 |
| 137.5° | 385.0 | 384.7 | 384.4 | 384.1 |
| 140°   | 405.6 | 404.9 | 404.2 | 403.5 |
| 142.5° | 424.9 | 424.4 | 423.9 | 423.4 |
| 145°   | 443.6 | 443.2 | 442.8 | 442.4 |
| 147.5° | 461.3 | 460.7 | 460.1 | 459.5 |
| 150°   | 477.6 | 477.0 | 476.4 | 475.8 |
| 152.5° | 493.1 | 492.6 | 492.1 | 491.6 |
| 155°   | 507.7 | 507.0 | 506.3 | 505.6 |
| 157.5° | 520.5 | 519.9 | 519.3 | 518.7 |
| 160°   | 532.6 | 532.2 | 531.8 | 531.4 |
| 162.5° | 543.0 | 542.3 | 541.6 | 540.9 |
| 165°   | 552.0 | 551.3 | 550.6 | 549.9 |
| 167.5° | 559.8 | 559.2 | 558.6 | 558.0 |
| 170°   | 566.0 | 565.3 | 564.6 | 563.9 |
| 172.5° | 570.5 | 569.8 | 569.1 | 568.4 |
| 175°   | 573.7 | 573.0 | 572.3 | 571.6 |
| 177.5° | 575.5 | 574.8 | 574.1 | 573.4 |
| 180°   | 575.2 | 575.2 | 575.2 | 575.2 |

TEST NUMBER: P831679

CATALOG NUMBER: S123DIP-S775D585U927-4F0-1E-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 | 14.97            | 15.92 | 15.80 | 16.77 | 17.83 | 17.20          | 18.15 | 18.04 | 19.01 | 20.07 |
|                 | 3H   | 16.62            | 17.47 | 17.47 | 18.33 | 19.42 | 18.63          | 19.49 | 19.48 | 20.35 | 21.44 |
|                 | 4H   | 17.20            | 18.01 | 18.07 | 18.88 | 19.98 | 19.09          | 19.89 | 19.95 | 20.76 | 21.86 |
|                 | 6H   | 17.58            | 18.32 | 18.45 | 19.19 | 20.31 | 19.37          | 20.11 | 20.25 | 20.99 | 22.10 |
|                 | 8H   | 17.68            | 18.38 | 18.56 | 19.27 | 20.39 | 19.43          | 20.14 | 20.32 | 21.03 | 22.15 |
|                 | 12H  | 17.72            | 18.39 | 18.62 | 19.28 | 20.42 | 19.46          | 20.13 | 20.35 | 21.01 | 22.15 |
| 4H              | 2H   | 15.55            | 16.36 | 16.42 | 17.23 | 18.33 | 17.38          | 18.18 | 18.25 | 19.05 | 20.15 |
|                 | 3H   | 17.39            | 18.06 | 18.27 | 18.96 | 20.07 | 19.00          | 19.67 | 19.89 | 20.57 | 21.69 |
|                 | 4H   | 18.09            | 18.70 | 18.98 | 19.60 | 20.74 | 19.59          | 20.20 | 20.48 | 21.10 | 22.24 |
|                 | 6H   | 18.57            | 19.09 | 19.48 | 20.02 | 21.16 | 20.00          | 20.53 | 20.91 | 21.45 | 22.59 |
|                 | 8H   | 18.71            | 19.20 | 19.62 | 20.12 | 21.27 | 20.11          | 20.60 | 21.02 | 21.52 | 22.68 |
|                 | 12H  | 18.78            | 19.22 | 19.71 | 20.16 | 21.32 | 20.16          | 20.60 | 21.09 | 21.54 | 22.70 |
| 8H              | 4H   | 18.36            | 18.85 | 19.27 | 19.77 | 20.93 | 19.70          | 20.19 | 20.61 | 21.11 | 22.27 |
|                 | 6H   | 18.96            | 19.36 | 19.89 | 20.32 | 21.47 | 20.21          | 20.61 | 21.15 | 21.57 | 22.73 |
|                 | 8H   | 19.16            | 19.52 | 20.11 | 20.47 | 21.65 | 20.39          | 20.75 | 21.34 | 21.70 | 22.87 |
|                 | 12H  | 19.29            | 19.61 | 20.24 | 20.55 | 21.77 | 20.50          | 20.81 | 21.44 | 21.75 | 22.98 |
| 12H             | 4H   | 18.37            | 18.81 | 19.30 | 19.74 | 20.91 | 19.68          | 20.12 | 20.61 | 21.06 | 22.22 |
|                 | 6H   | 19.01            | 19.36 | 19.95 | 20.31 | 21.49 | 20.22          | 20.58 | 21.17 | 21.53 | 22.71 |
|                 | 8H   | 19.24            | 19.56 | 20.19 | 20.50 | 21.73 | 20.43          | 20.74 | 21.38 | 21.68 | 22.91 |

END OF REPORT