

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: P831602

Luminaire Tested: S123DIP-S775D1025U930-4F0-1E-UDD-G4

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831602  
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-S775D1025U930-4F0-1E-UDD-G4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: -

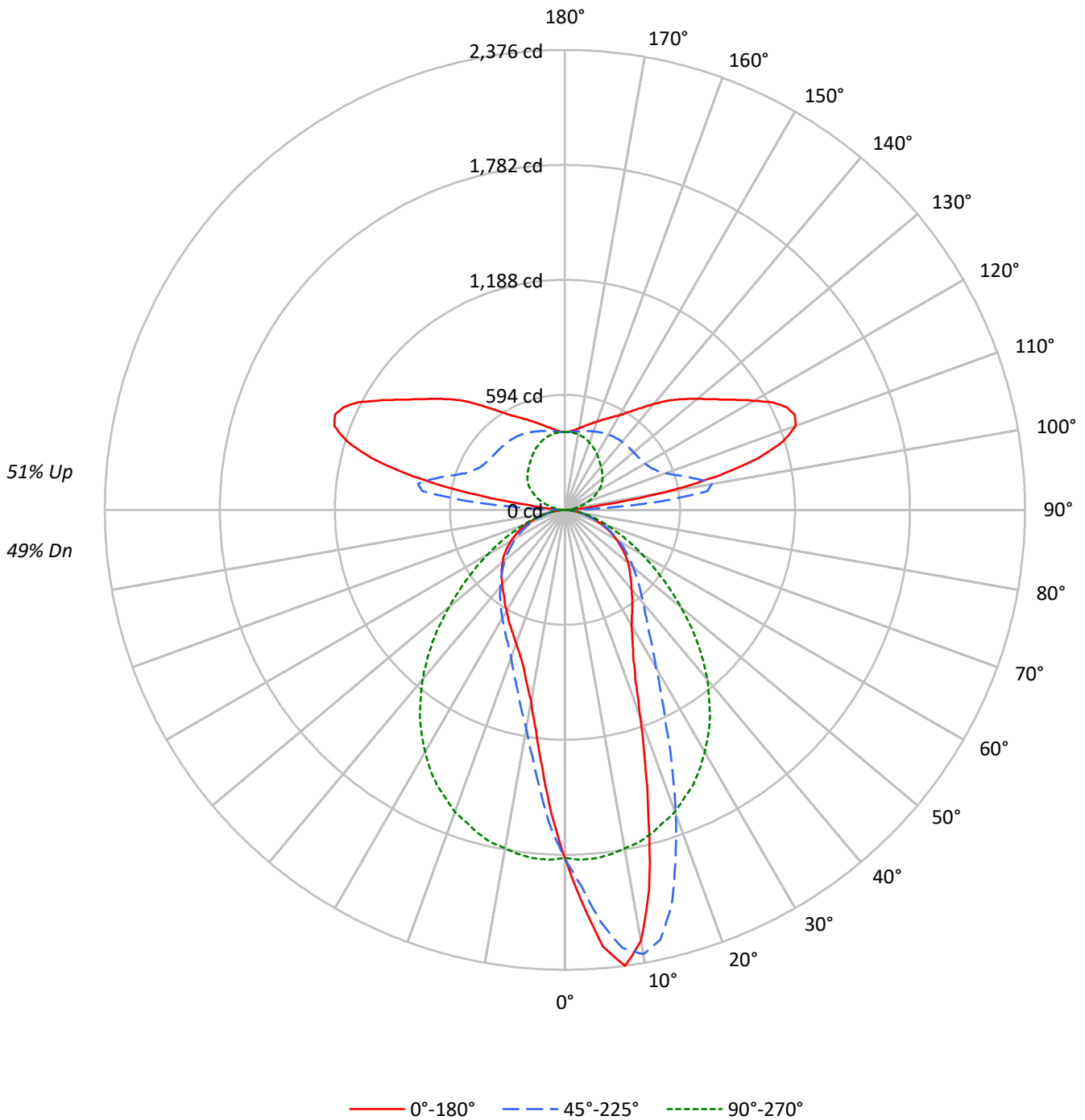
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5918.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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): 51.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





TEST NUMBER: P831602

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF  | 20  |     |     |     |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |   |
| RC  | 80  |     |     |     |    | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 | 0 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |    |    |    |   |
| 1   | 98  | 94  | 90  | 87  | 90 | 87 | 84 | 81 | 73 | 71 | 69 | 61 | 59 | 58 | 49 | 48 | 47 | 42 |    |    |    |   |
| 2   | 90  | 83  | 77  | 72  | 82 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 51 | 49 | 44 | 42 | 41 | 36 |    |    |    |   |
| 3   | 82  | 73  | 66  | 61  | 76 | 68 | 62 | 57 | 58 | 53 | 49 | 48 | 45 | 42 | 40 | 37 | 35 | 31 |    |    |    |   |
| 4   | 76  | 65  | 58  | 52  | 69 | 61 | 54 | 49 | 52 | 47 | 43 | 44 | 40 | 37 | 36 | 33 | 31 | 28 |    |    |    |   |
| 5   | 70  | 58  | 51  | 45  | 64 | 54 | 48 | 42 | 47 | 41 | 37 | 39 | 36 | 32 | 33 | 30 | 28 | 24 |    |    |    |   |
| 6   | 64  | 53  | 45  | 39  | 59 | 49 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 29 | 30 | 27 | 25 | 22 |    |    |    |   |
| 7   | 60  | 48  | 40  | 35  | 55 | 45 | 38 | 33 | 39 | 33 | 29 | 33 | 29 | 26 | 28 | 25 | 22 | 20 |    |    |    |   |
| 8   | 56  | 44  | 36  | 31  | 51 | 41 | 34 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 26 | 23 | 20 | 18 |    |    |    |   |
| 9   | 52  | 40  | 33  | 28  | 48 | 38 | 31 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 24 | 21 | 19 | 16 |    |    |    |   |
| 10  | 49  | 37  | 30  | 25  | 45 | 35 | 28 | 24 | 30 | 25 | 22 | 26 | 22 | 19 | 22 | 19 | 17 | 15 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 19362 | 19362 | 19362 | 19362 | 19362 |
| 5°  | 24487 | 23112 | 19535 | 15743 | 14467 |
| 10° | 24725 | 25473 | 19406 | 12550 | 10966 |
| 15° | 18622 | 23650 | 19274 | 10628 | 9274  |
| 20° | 12975 | 19137 | 19027 | 9294  | 8424  |
| 25° | 9894  | 14718 | 18608 | 8551  | 7902  |
| 30° | 8559  | 11692 | 17938 | 8025  | 7480  |
| 35° | 7941  | 9872  | 17165 | 7645  | 7184  |
| 40° | 7519  | 8855  | 16080 | 7284  | 7085  |
| 45° | 7269  | 8196  | 14702 | 7001  | 7039  |
| 50° | 7142  | 7675  | 13070 | 6745  | 7003  |
| 55° | 6876  | 7293  | 11466 | 6501  | 7034  |
| 60° | 6631  | 6882  | 9883  | 6271  | 6919  |
| 65° | 6230  | 6495  | 8525  | 6026  | 6783  |
| 70° | 5753  | 6002  | 7251  | 5621  | 6382  |
| 75° | 5207  | 5382  | 6213  | 5224  | 5831  |
| 80° | 4296  | 4711  | 4916  | 4556  | 4916  |
| 85° | 3396  | 3816  | 3606  | 3866  | 3915  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 16786 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 170.1  | 2.9       |
| 10°-20°   | 423.1  | 7.1       |
| 20°-30°   | 500.9  | 8.5       |
| 30°-40°   | 503.7  | 8.5       |
| 40°-50°   | 462.1  | 7.8       |
| 50°-60°   | 381.4  | 6.4       |
| 60°-70°   | 269.8  | 4.6       |
| 70°-80°   | 144.0  | 2.4       |
| 80°-90°   | 38.8   | 0.7       |
| 90°-100°  | 218.2  | 3.7       |
| 100°-110° | 638.7  | 10.8      |
| 110°-120° | 623.7  | 10.5      |
| 120°-130° | 496.7  | 8.4       |
| 130°-140° | 391.9  | 6.6       |
| 140°-150° | 292.4  | 4.9       |
| 150°-160° | 203.8  | 3.4       |
| 160°-170° | 119.7  | 2.0       |
| 170°-180° | 38.9   | 0.7       |
| 0°-30°    | 1094.1 | 18.5      |
| 0°-40°    | 1597.8 | 27.0      |
| 0°-60°    | 2441.3 | 41.3      |
| 0°-90°    | 2893.9 | 48.9      |
| 90°-120°  | 1480.6 | 25.0      |
| 90°-150°  | 2661.5 | 45.0      |
| 90°-180°  | 3024.0 | 51.1      |
| 0°-180°   | 5918.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1799 | 1799 | 1799 | 1799 | 1799 |      |
| 5°   | 2266 | 2139 | 1808 | 1457 | 1339 | 216  |
| 15°  | 1671 | 2122 | 1730 | 954  | 832  | 462  |
| 25°  | 833  | 1239 | 1567 | 720  | 665  | 393  |
| 35°  | 604  | 751  | 1306 | 582  | 547  | 380  |
| 45°  | 478  | 538  | 966  | 460  | 462  | 370  |
| 55°  | 366  | 389  | 611  | 346  | 375  | 328  |
| 65°  | 245  | 255  | 335  | 237  | 266  | 243  |
| 75°  | 125  | 129  | 149  | 126  | 140  | 132  |
| 85°  | 28   | 31   | 29   | 31   | 32   | 31   |
| 90°  | 24   | 20   | 2    | 20   | 24   | 14   |
| 95°  | 94   | 483  | 28   | 483  | 94   | 153  |
| 105° | 1035 | 654  | 94   | 654  | 1035 | 1033 |
| 115° | 1259 | 500  | 167  | 500  | 1259 | 1228 |
| 125° | 993  | 467  | 232  | 467  | 993  | 899  |
| 135° | 805  | 461  | 272  | 461  | 805  | 624  |
| 145° | 629  | 455  | 310  | 455  | 629  | 399  |
| 155° | 522  | 440  | 352  | 440  | 522  | 243  |
| 165° | 455  | 422  | 385  | 422  | 455  | 130  |
| 175° | 409  | 404  | 401  | 404  | 409  | 40   |
| 180° | 402  | 402  | 402  | 402  | 402  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 |
| 2.5°   | 2027.6 | 2025.5 | 2023.4 | 2012.9 | 2002.5 | 1997.5 | 1992.5 | 1977.5 | 1962.4 | 1945.7 | 1929.1 |
| 5°     | 2266.3 | 2272.1 | 2278.0 | 2271.3 | 2264.6 | 2244.2 | 2223.7 | 2196.6 | 2169.5 | 2139.0 | 2108.5 |
| 7.5°   | 2376.5 | 2379.8 | 2383.1 | 2379.0 | 2374.8 | 2369.4 | 2363.9 | 2339.7 | 2315.5 | 2284.2 | 2252.9 |
| 10°    | 2262.1 | 2269.6 | 2277.1 | 2293.4 | 2309.7 | 2328.1 | 2346.4 | 2343.1 | 2339.7 | 2330.6 | 2321.4 |
| 12.5°  | 2010.9 | 2020.0 | 2029.2 | 2061.8 | 2094.3 | 2136.1 | 2177.8 | 2213.7 | 2249.6 | 2274.6 | 2299.7 |
| 15°    | 1671.1 | 1696.6 | 1722.0 | 1751.7 | 1781.3 | 1842.7 | 1904.0 | 1979.6 | 2055.1 | 2122.3 | 2189.5 |
| 17.5°  | 1376.5 | 1386.1 | 1395.7 | 1427.4 | 1459.1 | 1536.3 | 1613.5 | 1700.8 | 1788.0 | 1899.4 | 2010.9 |
| 20°    | 1132.7 | 1141.5 | 1150.3 | 1192.0 | 1233.7 | 1294.2 | 1354.8 | 1452.8 | 1550.9 | 1670.7 | 1790.5 |
| 22.5°  | 951.6  | 965.4  | 979.1  | 1002.5 | 1025.9 | 1083.9 | 1141.9 | 1229.1 | 1316.4 | 1448.7 | 1581.0 |
| 25°    | 833.1  | 843.1  | 853.1  | 867.3  | 881.5  | 927.8  | 974.1  | 1045.9 | 1117.7 | 1239.2 | 1360.6 |
| 27.5°  | 752.1  | 756.3  | 760.4  | 774.6  | 788.8  | 818.9  | 848.9  | 910.7  | 972.5  | 1075.5 | 1178.6 |
| 30°    | 688.6  | 691.6  | 694.5  | 707.0  | 719.5  | 740.0  | 760.4  | 805.1  | 849.8  | 940.7  | 1031.7 |
| 32.5°  | 644.4  | 646.5  | 648.6  | 658.2  | 667.8  | 682.4  | 697.0  | 729.6  | 762.1  | 837.2  | 912.4  |
| 35°    | 604.3  | 605.6  | 606.8  | 613.9  | 621.0  | 631.9  | 642.7  | 667.4  | 692.0  | 751.3  | 810.5  |
| 37.5°  | 569.3  | 571.0  | 572.6  | 576.8  | 581.0  | 590.6  | 600.2  | 619.8  | 639.4  | 684.9  | 730.4  |
| 40°    | 535.1  | 538.0  | 540.9  | 543.8  | 546.7  | 554.7  | 562.6  | 577.6  | 592.7  | 630.2  | 667.8  |
| 42.5°  | 505.8  | 508.8  | 511.7  | 512.9  | 514.2  | 518.8  | 523.4  | 537.1  | 550.9  | 578.9  | 606.8  |
| 45°    | 477.5  | 478.7  | 480.0  | 481.2  | 482.5  | 486.2  | 490.0  | 502.1  | 514.2  | 538.4  | 562.6  |
| 47.5°  | 451.6  | 451.6  | 451.6  | 452.4  | 453.3  | 456.6  | 459.9  | 468.7  | 477.5  | 496.2  | 515.0  |
| 50°    | 426.5  | 426.5  | 426.5  | 425.3  | 424.0  | 426.1  | 428.2  | 434.9  | 441.6  | 458.3  | 475.0  |
| 52.5°  | 396.5  | 396.5  | 396.5  | 396.9  | 397.3  | 397.3  | 397.3  | 403.2  | 409.0  | 424.0  | 439.1  |
| 55°    | 366.4  | 368.1  | 369.8  | 368.5  | 367.3  | 368.1  | 368.9  | 372.7  | 376.5  | 388.6  | 400.7  |
| 57.5°  | 336.4  | 337.2  | 338.1  | 337.6  | 337.2  | 337.6  | 338.1  | 341.4  | 344.7  | 353.9  | 363.1  |
| 60°    | 308.0  | 308.0  | 308.0  | 307.2  | 306.3  | 307.2  | 308.0  | 309.7  | 311.4  | 319.7  | 328.0  |
| 62.5°  | 276.3  | 276.7  | 277.1  | 277.5  | 278.0  | 277.1  | 276.3  | 278.4  | 280.5  | 286.7  | 293.0  |
| 65°    | 244.6  | 245.0  | 245.4  | 246.7  | 247.9  | 247.1  | 246.2  | 248.3  | 250.4  | 255.0  | 259.6  |
| 67.5°  | 216.2  | 215.4  | 214.5  | 214.9  | 215.4  | 216.6  | 217.9  | 218.3  | 218.7  | 223.7  | 228.7  |
| 70°    | 182.8  | 183.6  | 184.5  | 184.1  | 183.6  | 184.1  | 184.5  | 185.7  | 187.0  | 190.7  | 194.5  |
| 72.5°  | 152.8  | 153.2  | 153.6  | 153.6  | 153.6  | 154.4  | 155.3  | 156.5  | 157.8  | 159.9  | 161.9  |
| 75°    | 125.2  | 125.2  | 125.2  | 126.0  | 126.9  | 127.3  | 127.7  | 127.7  | 127.7  | 129.4  | 131.1  |
| 77.5°  | 95.2   | 97.2   | 99.3   | 98.9   | 98.5   | 99.3   | 100.2  | 101.4  | 102.7  | 103.5  | 104.3  |
| 80°    | 69.3   | 69.3   | 69.3   | 69.7   | 70.1   | 71.4   | 72.6   | 73.5   | 74.3   | 76.0   | 77.6   |
| 82.5°  | 44.2   | 44.7   | 45.1   | 46.3   | 47.6   | 48.4   | 49.2   | 50.5   | 51.8   | 51.8   | 51.8   |
| 85°    | 27.5   | 26.7   | 25.9   | 26.7   | 27.5   | 28.4   | 29.2   | 29.6   | 30.1   | 30.9   | 31.7   |
| 87.5°  | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.8   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   |
| 90°    | 23.6   | 24.4   | 23.6   | 22.8   | 23.6   | 22.0   | 21.2   | 20.3   | 19.5   | 20.3   | 17.9   |
| 92.5°  | 43.1   | 44.8   | 43.9   | 47.2   | 48.8   | 54.5   | 62.7   | 80.6   | 113.1  | 151.4  | 167.6  |
| 95°    | 94.4   | 97.7   | 103.4  | 110.7  | 126.1  | 155.4  | 198.6  | 293.0  | 391.4  | 482.6  | 429.7  |
| 97.5°  | 193.7  | 202.6  | 222.2  | 253.1  | 307.6  | 400.4  | 507.8  | 673.0  | 767.4  | 742.2  | 554.2  |
| 100°   | 510.3  | 509.4  | 541.2  | 600.6  | 682.8  | 798.4  | 893.6  | 959.5  | 931.0  | 770.7  | 520.8  |
| 102.5° | 808.1  | 831.7  | 856.9  | 900.9  | 960.3  | 1023.0 | 1068.5 | 1054.7 | 939.1  | 717.8  | 472.0  |
| 105°   | 1035.2 | 1039.2 | 1065.3 | 1096.2 | 1133.6 | 1154.8 | 1139.3 | 1058.0 | 887.9  | 654.3  | 433.8  |
| 107.5° | 1183.3 | 1192.2 | 1202.8 | 1217.5 | 1222.3 | 1200.4 | 1136.9 | 1009.1 | 814.6  | 598.2  | 406.1  |
| 110°   | 1267.9 | 1269.5 | 1271.2 | 1264.7 | 1241.9 | 1184.9 | 1082.4 | 932.6  | 746.3  | 551.8  | 391.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 40°   | 45°   | 50°   |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 112.5° | 1285.0 | 1284.2 | 1276.1 | 1252.5 | 1206.1 | 1128.8 | 1010.8 | 856.9 | 686.9 | 520.8 | 383.3 |
| 115°   | 1259.0 | 1254.9 | 1238.6 | 1202.8 | 1141.8 | 1053.1 | 933.4  | 791.8 | 641.3 | 500.5 | 382.5 |
| 117.5° | 1202.0 | 1196.3 | 1171.9 | 1132.0 | 1068.5 | 976.6  | 866.7  | 741.4 | 611.2 | 486.7 | 383.3 |
| 120°   | 1127.1 | 1122.2 | 1102.7 | 1057.1 | 992.9  | 910.7  | 813.0  | 703.1 | 588.4 | 477.7 | 386.6 |
| 122.5° | 1057.1 | 1050.6 | 1028.7 | 988.8  | 933.4  | 858.6  | 769.9  | 673.0 | 569.7 | 472.0 | 392.3 |
| 125°   | 992.9  | 987.2  | 966.8  | 931.0  | 878.9  | 813.8  | 735.7  | 647.0 | 554.2 | 467.1 | 398.0 |
| 127.5° | 937.5  | 932.6  | 913.9  | 883.0  | 835.8  | 775.6  | 703.9  | 623.4 | 539.6 | 464.7 | 404.5 |
| 130°   | 891.9  | 885.4  | 868.3  | 839.0  | 795.9  | 740.6  | 674.7  | 601.4 | 528.2 | 462.2 | 411.0 |
| 132.5° | 847.2  | 843.1  | 828.5  | 799.2  | 759.3  | 707.2  | 647.0  | 581.1 | 517.6 | 461.4 | 415.9 |
| 135°   | 804.9  | 799.2  | 784.5  | 760.1  | 720.2  | 673.8  | 620.9  | 563.2 | 508.6 | 460.6 | 420.7 |
| 137.5° | 760.1  | 755.2  | 743.0  | 717.8  | 683.6  | 642.1  | 594.9  | 546.1 | 500.5 | 459.0 | 424.0 |
| 140°   | 712.9  | 713.7  | 700.7  | 677.9  | 647.0  | 612.0  | 572.9  | 531.4 | 493.2 | 458.2 | 427.3 |
| 142.5° | 669.0  | 669.8  | 658.4  | 638.8  | 613.6  | 584.3  | 551.8  | 517.6 | 486.7 | 456.5 | 429.7 |
| 145°   | 629.1  | 627.5  | 620.9  | 603.8  | 583.5  | 559.9  | 533.9  | 507.0 | 481.0 | 454.9 | 430.5 |
| 147.5° | 594.9  | 594.1  | 587.6  | 575.4  | 559.1  | 542.0  | 520.0  | 498.1 | 475.3 | 452.5 | 430.5 |
| 150°   | 565.6  | 565.6  | 560.7  | 551.8  | 539.6  | 524.1  | 507.0  | 488.3 | 469.6 | 449.2 | 430.5 |
| 152.5° | 541.2  | 541.2  | 538.7  | 530.6  | 521.7  | 509.4  | 494.8  | 479.3 | 463.1 | 445.2 | 428.1 |
| 155°   | 521.7  | 520.8  | 519.2  | 512.7  | 505.4  | 495.6  | 483.4  | 470.4 | 456.5 | 440.3 | 426.4 |
| 157.5° | 502.9  | 502.9  | 501.3  | 496.4  | 489.9  | 481.8  | 472.0  | 460.6 | 449.2 | 436.2 | 424.0 |
| 160°   | 485.0  | 485.8  | 485.8  | 481.0  | 475.3  | 469.6  | 461.4  | 452.5 | 441.9 | 431.3 | 422.4 |
| 162.5° | 468.8  | 469.6  | 469.6  | 465.5  | 462.2  | 457.4  | 450.0  | 442.7 | 434.6 | 426.4 | 419.1 |
| 165°   | 454.9  | 454.9  | 455.7  | 452.5  | 449.2  | 445.2  | 439.5  | 434.6 | 428.1 | 421.6 | 415.9 |
| 167.5° | 441.1  | 441.1  | 441.9  | 439.5  | 437.8  | 434.6  | 431.3  | 427.3 | 421.6 | 416.7 | 412.6 |
| 170°   | 428.9  | 428.9  | 429.7  | 428.1  | 427.3  | 425.6  | 422.4  | 419.9 | 415.9 | 411.8 | 409.3 |
| 172.5° | 417.5  | 418.3  | 419.9  | 418.3  | 418.3  | 417.5  | 415.0  | 413.4 | 410.2 | 407.7 | 406.9 |
| 175°   | 409.3  | 410.2  | 411.0  | 410.2  | 410.2  | 410.2  | 408.5  | 407.7 | 406.1 | 404.5 | 404.5 |
| 177.5° | 403.7  | 403.7  | 405.3  | 404.5  | 405.3  | 405.3  | 404.5  | 403.7 | 402.8 | 402.0 | 402.8 |
| 180°   | 402.0  | 402.0  | 402.0  | 402.0  | 402.0  | 402.0  | 402.0  | 402.0 | 402.0 | 402.0 | 402.0 |



TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 |
| 2.5°   | 1924.0 | 1919.0 | 1900.7 | 1882.3 | 1861.4 | 1840.6 | 1825.1 | 1809.7 | 1786.7 | 1763.8 | 1745.0 |
| 5°     | 2085.1 | 2061.8 | 2023.0 | 1984.1 | 1931.6 | 1879.0 | 1843.5 | 1808.0 | 1760.4 | 1712.9 | 1674.9 |
| 7.5°   | 2212.9 | 2172.8 | 2118.5 | 2064.3 | 1995.4 | 1926.5 | 1861.4 | 1796.3 | 1723.7 | 1651.1 | 1591.8 |
| 10°    | 2294.2 | 2267.1 | 2204.5 | 2141.9 | 2049.7 | 1957.4 | 1866.4 | 1775.5 | 1682.0 | 1588.5 | 1510.0 |
| 12.5°  | 2302.2 | 2304.7 | 2247.1 | 2189.5 | 2085.1 | 1980.8 | 1870.2 | 1759.6 | 1641.9 | 1524.2 | 1432.8 |
| 15°    | 2232.5 | 2275.5 | 2243.7 | 2212.0 | 2106.8 | 2001.7 | 1865.6 | 1729.6 | 1593.9 | 1458.3 | 1352.7 |
| 17.5°  | 2103.1 | 2195.3 | 2199.9 | 2204.5 | 2099.3 | 1994.2 | 1843.5 | 1692.8 | 1539.2 | 1385.6 | 1274.6 |
| 20°    | 1926.5 | 2062.6 | 2109.4 | 2156.1 | 2070.5 | 1985.0 | 1823.0 | 1661.1 | 1489.2 | 1317.2 | 1200.8 |
| 22.5°  | 1746.2 | 1911.5 | 1997.1 | 2082.6 | 2019.2 | 1955.8 | 1783.4 | 1611.0 | 1429.5 | 1247.9 | 1129.8 |
| 25°    | 1540.9 | 1721.2 | 1852.7 | 1984.1 | 1945.3 | 1906.5 | 1736.6 | 1566.8 | 1373.5 | 1180.3 | 1059.7 |
| 27.5°  | 1361.9 | 1545.1 | 1703.7 | 1862.3 | 1853.9 | 1845.6 | 1677.0 | 1508.4 | 1310.5 | 1112.7 | 996.2  |
| 30°    | 1202.4 | 1373.1 | 1550.5 | 1727.9 | 1748.3 | 1768.8 | 1606.0 | 1443.2 | 1245.0 | 1046.7 | 934.5  |
| 32.5°  | 1061.4 | 1210.4 | 1400.7 | 1591.0 | 1631.1 | 1671.1 | 1524.2 | 1377.3 | 1181.1 | 985.0  | 876.9  |
| 35°    | 945.7  | 1081.0 | 1271.3 | 1461.6 | 1511.7 | 1561.8 | 1434.1 | 1306.3 | 1115.2 | 924.0  | 821.0  |
| 37.5°  | 843.5  | 956.6  | 1142.3 | 1328.1 | 1389.4 | 1450.8 | 1336.4 | 1222.0 | 1043.0 | 863.9  | 769.2  |
| 40°    | 758.8  | 849.8  | 1020.5 | 1191.2 | 1262.1 | 1333.1 | 1238.7 | 1144.4 | 974.5  | 804.7  | 717.4  |
| 42.5°  | 687.8  | 768.8  | 923.6  | 1078.5 | 1146.5 | 1214.5 | 1134.8 | 1055.1 | 904.0  | 752.9  | 673.2  |
| 45°    | 627.3  | 692.0  | 832.6  | 973.3  | 1038.0 | 1102.7 | 1034.2 | 965.8  | 832.6  | 699.5  | 625.2  |
| 47.5°  | 570.5  | 626.0  | 746.2  | 866.4  | 924.0  | 981.6  | 928.2  | 874.8  | 762.1  | 649.4  | 582.2  |
| 50°    | 519.6  | 564.3  | 669.5  | 774.6  | 824.7  | 874.8  | 827.6  | 780.5  | 687.8  | 595.2  | 536.7  |
| 52.5°  | 475.4  | 511.7  | 599.8  | 687.8  | 730.8  | 773.8  | 733.3  | 692.8  | 619.4  | 545.9  | 495.0  |
| 55°    | 431.6  | 462.4  | 538.8  | 615.2  | 644.4  | 673.6  | 642.3  | 611.0  | 551.8  | 492.5  | 449.5  |
| 57.5°  | 390.7  | 418.2  | 480.8  | 543.4  | 565.9  | 588.5  | 560.1  | 531.7  | 487.1  | 442.4  | 406.5  |
| 60°    | 350.6  | 373.1  | 425.3  | 477.5  | 491.2  | 505.0  | 482.1  | 459.1  | 427.8  | 396.5  | 364.4  |
| 62.5°  | 313.4  | 333.9  | 372.7  | 411.5  | 420.7  | 429.9  | 412.4  | 394.8  | 371.0  | 347.2  | 322.2  |
| 65°    | 275.0  | 290.5  | 322.2  | 353.9  | 359.8  | 365.6  | 350.2  | 334.7  | 316.8  | 298.8  | 280.5  |
| 67.5°  | 239.6  | 250.4  | 276.3  | 302.2  | 302.6  | 303.0  | 290.5  | 278.0  | 267.9  | 257.9  | 243.3  |
| 70°    | 204.9  | 215.4  | 232.5  | 249.6  | 250.0  | 250.4  | 240.4  | 230.4  | 222.9  | 215.4  | 204.5  |
| 72.5°  | 169.4  | 177.0  | 189.9  | 202.8  | 202.0  | 201.2  | 194.9  | 188.6  | 182.8  | 177.0  | 169.0  |
| 75°    | 137.3  | 143.6  | 152.3  | 161.1  | 158.6  | 156.1  | 152.8  | 149.4  | 144.4  | 139.4  | 134.4  |
| 77.5°  | 108.1  | 111.9  | 116.9  | 121.9  | 120.2  | 118.5  | 115.6  | 112.7  | 108.9  | 105.2  | 103.1  |
| 80°    | 79.3   | 81.0   | 84.3   | 87.6   | 86.8   | 86.0   | 82.6   | 79.3   | 78.5   | 77.6   | 74.7   |
| 82.5°  | 53.8   | 55.9   | 56.8   | 57.6   | 57.2   | 56.8   | 54.3   | 51.8   | 50.9   | 50.1   | 49.7   |
| 85°    | 32.1   | 32.6   | 33.0   | 33.4   | 32.1   | 30.9   | 30.1   | 29.2   | 29.2   | 29.2   | 28.8   |
| 87.5°  | 14.6   | 15.0   | 15.0   | 15.0   | 14.6   | 14.2   | 13.4   | 12.5   | 12.9   | 13.4   | 13.4   |
| 90°    | 15.5   | 13.0   | 10.6   | 9.0    | 7.3    | 4.9    | 3.3    | 1.6    | 3.3    | 4.9    | 7.3    |
| 92.5°  | 125.3  | 82.2   | 56.2   | 41.5   | 33.4   | 26.0   | 17.9   | 12.2   | 17.9   | 26.0   | 33.4   |
| 95°    | 296.2  | 175.0  | 105.8  | 74.1   | 52.9   | 39.1   | 30.1   | 27.7   | 30.1   | 39.1   | 52.9   |
| 97.5°  | 329.6  | 188.8  | 120.4  | 85.5   | 64.3   | 52.1   | 44.8   | 43.9   | 44.8   | 52.1   | 64.3   |
| 100°   | 306.8  | 186.4  | 129.4  | 97.7   | 78.1   | 66.7   | 61.0   | 60.2   | 61.0   | 66.7   | 78.1   |
| 102.5° | 287.3  | 189.6  | 140.0  | 111.5  | 94.4   | 83.8   | 78.9   | 77.3   | 78.9   | 83.8   | 94.4   |
| 105°   | 280.0  | 196.1  | 152.2  | 127.0  | 111.5  | 101.7  | 96.8   | 94.4   | 96.8   | 101.7  | 111.5  |
| 107.5° | 278.3  | 206.7  | 167.6  | 144.0  | 129.4  | 119.6  | 114.7  | 112.3  | 114.7  | 119.6  | 129.4  |
| 110°   | 282.4  | 220.5  | 183.9  | 161.1  | 147.3  | 138.3  | 134.3  | 131.8  | 134.3  | 138.3  | 147.3  |





TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 290.5 | 234.4 | 201.0 | 179.0 | 165.2 | 156.3 | 152.2 | 149.7 | 152.2 | 156.3 | 165.2 |
| 115°   | 299.5 | 249.8 | 218.9 | 196.9 | 183.1 | 175.0 | 170.1 | 166.8 | 170.1 | 175.0 | 183.1 |
| 117.5° | 310.9 | 266.1 | 235.2 | 214.8 | 199.4 | 192.1 | 188.0 | 183.9 | 188.0 | 192.1 | 199.4 |
| 120°   | 323.9 | 281.6 | 252.3 | 231.9 | 216.5 | 208.3 | 204.3 | 201.8 | 204.3 | 208.3 | 216.5 |
| 122.5° | 336.1 | 297.9 | 269.4 | 247.4 | 232.8 | 223.8 | 219.7 | 217.3 | 219.7 | 223.8 | 232.8 |
| 125°   | 349.1 | 313.3 | 284.8 | 262.9 | 247.4 | 238.4 | 233.6 | 231.9 | 233.6 | 238.4 | 247.4 |
| 127.5° | 359.7 | 327.2 | 299.5 | 277.5 | 260.4 | 251.5 | 245.8 | 243.3 | 245.8 | 251.5 | 260.4 |
| 130°   | 370.3 | 339.4 | 312.5 | 290.5 | 273.4 | 263.7 | 256.4 | 253.9 | 256.4 | 263.7 | 273.4 |
| 132.5° | 380.1 | 349.9 | 323.9 | 302.7 | 285.6 | 273.4 | 265.3 | 262.0 | 265.3 | 273.4 | 285.6 |
| 135°   | 388.2 | 360.5 | 335.3 | 313.3 | 296.2 | 284.0 | 275.1 | 271.8 | 275.1 | 284.0 | 296.2 |
| 137.5° | 394.7 | 367.8 | 343.4 | 323.1 | 306.0 | 293.0 | 284.0 | 280.8 | 284.0 | 293.0 | 306.0 |
| 140°   | 399.6 | 375.2 | 351.6 | 331.2 | 314.9 | 301.9 | 293.8 | 289.7 | 293.8 | 301.9 | 314.9 |
| 142.5° | 404.5 | 380.9 | 358.1 | 339.4 | 323.1 | 311.7 | 302.7 | 299.5 | 302.7 | 311.7 | 323.1 |
| 145°   | 407.7 | 385.7 | 364.6 | 345.9 | 332.0 | 319.8 | 312.5 | 310.1 | 312.5 | 319.8 | 332.0 |
| 147.5° | 410.2 | 389.8 | 370.3 | 354.0 | 340.2 | 329.6 | 322.3 | 320.6 | 322.3 | 329.6 | 340.2 |
| 150°   | 411.0 | 393.9 | 375.2 | 360.5 | 349.1 | 338.5 | 332.0 | 331.2 | 332.0 | 338.5 | 349.1 |
| 152.5° | 412.6 | 396.3 | 380.9 | 367.0 | 357.3 | 348.3 | 341.8 | 341.8 | 341.8 | 348.3 | 357.3 |
| 155°   | 412.6 | 399.6 | 385.7 | 374.4 | 365.4 | 357.3 | 352.4 | 352.4 | 352.4 | 357.3 | 365.4 |
| 157.5° | 413.4 | 401.2 | 389.8 | 380.9 | 372.7 | 365.4 | 361.3 | 360.5 | 361.3 | 365.4 | 372.7 |
| 160°   | 413.4 | 403.7 | 393.9 | 385.7 | 380.1 | 373.5 | 370.3 | 370.3 | 370.3 | 373.5 | 380.1 |
| 162.5° | 412.6 | 404.5 | 396.3 | 389.8 | 384.9 | 380.1 | 377.6 | 377.6 | 377.6 | 380.1 | 384.9 |
| 165°   | 411.0 | 405.3 | 398.8 | 393.1 | 389.8 | 385.7 | 384.1 | 384.9 | 384.1 | 385.7 | 389.8 |
| 167.5° | 410.2 | 405.3 | 400.4 | 396.3 | 393.9 | 390.6 | 389.8 | 390.6 | 389.8 | 390.6 | 393.9 |
| 170°   | 407.7 | 404.5 | 400.4 | 398.8 | 397.1 | 394.7 | 393.9 | 395.5 | 393.9 | 394.7 | 397.1 |
| 172.5° | 406.9 | 404.5 | 401.2 | 400.4 | 399.6 | 398.0 | 398.0 | 398.8 | 398.0 | 398.0 | 399.6 |
| 175°   | 405.3 | 403.7 | 402.0 | 401.2 | 401.2 | 399.6 | 400.4 | 401.2 | 400.4 | 399.6 | 401.2 |
| 177.5° | 404.5 | 402.8 | 402.0 | 402.0 | 402.0 | 401.2 | 402.0 | 402.8 | 402.0 | 401.2 | 402.0 |
| 180°   | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 |



TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 | 1798.8 |
| 2.5°   | 1726.2 | 1709.9 | 1693.7 | 1681.1 | 1668.6 | 1647.3 | 1626.0 | 1621.0 | 1616.0 | 1608.9 | 1601.8 |
| 5°     | 1636.9 | 1596.8 | 1556.8 | 1520.9 | 1485.0 | 1457.0 | 1429.1 | 1410.7 | 1392.3 | 1379.0 | 1365.6 |
| 7.5°   | 1532.6 | 1472.5 | 1412.4 | 1369.8 | 1327.2 | 1286.7 | 1246.2 | 1233.3 | 1220.4 | 1202.8 | 1185.3 |
| 10°    | 1431.6 | 1365.2 | 1298.8 | 1243.3 | 1187.8 | 1148.2 | 1108.5 | 1092.7 | 1076.8 | 1054.7 | 1032.6 |
| 12.5°  | 1341.4 | 1268.8 | 1196.2 | 1140.2 | 1084.3 | 1045.9 | 1007.5 | 984.6  | 961.6  | 949.1  | 936.6  |
| 15°    | 1247.1 | 1169.5 | 1091.8 | 1040.1 | 988.3  | 953.7  | 919.0  | 899.0  | 879.0  | 866.9  | 854.8  |
| 17.5°  | 1163.6 | 1086.8 | 1010.0 | 960.4  | 910.7  | 879.0  | 847.2  | 829.7  | 812.2  | 803.0  | 793.8  |
| 20°    | 1084.3 | 1009.2 | 934.1  | 885.6  | 837.2  | 811.4  | 785.5  | 774.2  | 762.9  | 755.4  | 747.9  |
| 22.5°  | 1011.7 | 937.8  | 863.9  | 822.6  | 781.3  | 760.4  | 739.6  | 731.6  | 723.7  | 717.4  | 711.2  |
| 25°    | 939.1  | 873.1  | 807.2  | 772.1  | 737.1  | 720.0  | 702.8  | 694.9  | 687.0  | 680.7  | 674.5  |
| 27.5°  | 879.8  | 816.8  | 753.8  | 723.7  | 693.7  | 680.3  | 666.9  | 660.7  | 654.4  | 648.6  | 642.7  |
| 30°    | 822.2  | 765.9  | 709.5  | 683.6  | 657.8  | 645.7  | 633.6  | 627.3  | 621.0  | 615.6  | 610.2  |
| 32.5°  | 768.8  | 720.4  | 672.0  | 648.2  | 624.4  | 614.4  | 604.3  | 596.8  | 589.3  | 585.1  | 581.0  |
| 35°    | 717.9  | 674.5  | 631.1  | 611.4  | 591.8  | 581.8  | 571.8  | 565.5  | 559.3  | 555.9  | 552.6  |
| 37.5°  | 674.5  | 635.6  | 596.8  | 578.0  | 559.3  | 549.7  | 540.1  | 534.6  | 529.2  | 528.0  | 526.7  |
| 40°    | 630.2  | 596.8  | 563.4  | 545.1  | 526.7  | 518.4  | 510.0  | 506.7  | 503.3  | 502.5  | 501.7  |
| 42.5°  | 593.5  | 560.9  | 528.4  | 511.7  | 495.0  | 487.9  | 480.8  | 479.1  | 477.5  | 478.7  | 480.0  |
| 45°    | 550.9  | 523.8  | 496.7  | 481.2  | 465.8  | 459.9  | 454.1  | 452.8  | 451.6  | 454.1  | 456.6  |
| 47.5°  | 515.0  | 490.0  | 464.9  | 450.3  | 435.7  | 431.6  | 427.4  | 427.0  | 426.5  | 429.9  | 433.2  |
| 50°    | 478.3  | 454.1  | 429.9  | 418.2  | 406.5  | 402.8  | 399.0  | 400.3  | 401.5  | 406.9  | 412.4  |
| 52.5°  | 444.1  | 421.5  | 399.0  | 388.1  | 377.3  | 374.8  | 372.3  | 375.2  | 378.1  | 384.0  | 389.8  |
| 55°    | 406.5  | 386.1  | 365.6  | 357.3  | 348.9  | 346.4  | 343.9  | 349.8  | 355.6  | 361.0  | 366.4  |
| 57.5°  | 370.6  | 352.7  | 334.7  | 327.2  | 319.7  | 319.3  | 318.9  | 324.3  | 329.7  | 335.6  | 341.4  |
| 60°    | 332.2  | 317.2  | 302.2  | 296.3  | 290.5  | 291.3  | 292.2  | 298.4  | 304.7  | 309.3  | 313.9  |
| 62.5°  | 297.2  | 284.6  | 272.1  | 266.7  | 261.3  | 263.4  | 265.4  | 271.7  | 278.0  | 283.4  | 288.8  |
| 65°    | 262.1  | 251.7  | 241.2  | 237.5  | 233.7  | 236.6  | 239.6  | 245.0  | 250.4  | 254.2  | 257.9  |
| 67.5°  | 228.7  | 220.0  | 211.2  | 208.3  | 205.3  | 208.3  | 211.2  | 216.6  | 222.0  | 225.8  | 229.5  |
| 70°    | 193.7  | 186.6  | 179.5  | 177.4  | 175.3  | 178.6  | 182.0  | 186.6  | 191.2  | 194.9  | 198.7  |
| 72.5°  | 161.1  | 155.7  | 150.3  | 149.8  | 149.4  | 152.3  | 155.3  | 159.9  | 164.4  | 166.9  | 169.4  |
| 75°    | 129.4  | 126.5  | 123.5  | 123.1  | 122.7  | 125.6  | 128.5  | 131.1  | 133.6  | 135.6  | 137.7  |
| 77.5°  | 101.0  | 98.5   | 96.0   | 96.4   | 96.8   | 98.9   | 101.0  | 103.5  | 106.0  | 107.3  | 108.5  |
| 80°    | 71.8   | 71.0   | 70.1   | 71.0   | 71.8   | 73.5   | 75.1   | 76.8   | 78.5   | 79.3   | 80.1   |
| 82.5°  | 49.2   | 48.4   | 47.6   | 48.8   | 50.1   | 51.3   | 52.6   | 53.8   | 55.1   | 55.5   | 55.9   |
| 85°    | 28.4   | 29.6   | 30.9   | 30.9   | 30.9   | 31.3   | 31.7   | 32.1   | 32.6   | 32.1   | 31.7   |
| 87.5°  | 13.4   | 13.8   | 14.2   | 14.2   | 14.2   | 14.6   | 15.0   | 15.0   | 15.0   | 14.6   | 14.2   |
| 90°    | 9.0    | 10.6   | 13.0   | 15.5   | 17.9   | 20.3   | 19.5   | 20.3   | 21.2   | 22.0   | 23.6   |
| 92.5°  | 41.5   | 56.2   | 82.2   | 125.3  | 167.6  | 151.4  | 113.1  | 80.6   | 62.7   | 54.5   | 48.8   |
| 95°    | 74.1   | 105.8  | 175.0  | 296.2  | 429.7  | 482.6  | 391.4  | 293.0  | 198.6  | 155.4  | 126.1  |
| 97.5°  | 85.5   | 120.4  | 188.8  | 329.6  | 554.2  | 742.2  | 767.4  | 673.0  | 507.8  | 400.4  | 307.6  |
| 100°   | 97.7   | 129.4  | 186.4  | 306.8  | 520.8  | 770.7  | 931.0  | 959.5  | 893.6  | 798.4  | 682.8  |
| 102.5° | 111.5  | 140.0  | 189.6  | 287.3  | 472.0  | 717.8  | 939.1  | 1054.7 | 1068.5 | 1023.0 | 960.3  |
| 105°   | 127.0  | 152.2  | 196.1  | 280.0  | 433.8  | 654.3  | 887.9  | 1058.0 | 1139.3 | 1154.8 | 1133.6 |
| 107.5° | 144.0  | 167.6  | 206.7  | 278.3  | 406.1  | 598.2  | 814.6  | 1009.1 | 1136.9 | 1200.4 | 1222.3 |
| 110°   | 161.1  | 183.9  | 220.5  | 282.4  | 391.4  | 551.8  | 746.3  | 932.6  | 1082.4 | 1184.9 | 1241.9 |



TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°   | 155°   | 160°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 112.5° | 179.0 | 201.0 | 234.4 | 290.5 | 383.3 | 520.8 | 686.9 | 856.9 | 1010.8 | 1128.8 | 1206.1 |
| 115°   | 196.9 | 218.9 | 249.8 | 299.5 | 382.5 | 500.5 | 641.3 | 791.8 | 933.4  | 1053.1 | 1141.8 |
| 117.5° | 214.8 | 235.2 | 266.1 | 310.9 | 383.3 | 486.7 | 611.2 | 741.4 | 866.7  | 976.6  | 1068.5 |
| 120°   | 231.9 | 252.3 | 281.6 | 323.9 | 386.6 | 477.7 | 588.4 | 703.1 | 813.0  | 910.7  | 992.9  |
| 122.5° | 247.4 | 269.4 | 297.9 | 336.1 | 392.3 | 472.0 | 569.7 | 673.0 | 769.9  | 858.6  | 933.4  |
| 125°   | 262.9 | 284.8 | 313.3 | 349.1 | 398.0 | 467.1 | 554.2 | 647.0 | 735.7  | 813.8  | 878.9  |
| 127.5° | 277.5 | 299.5 | 327.2 | 359.7 | 404.5 | 464.7 | 539.6 | 623.4 | 703.9  | 775.6  | 835.8  |
| 130°   | 290.5 | 312.5 | 339.4 | 370.3 | 411.0 | 462.2 | 528.2 | 601.4 | 674.7  | 740.6  | 795.9  |
| 132.5° | 302.7 | 323.9 | 349.9 | 380.1 | 415.9 | 461.4 | 517.6 | 581.1 | 647.0  | 707.2  | 759.3  |
| 135°   | 313.3 | 335.3 | 360.5 | 388.2 | 420.7 | 460.6 | 508.6 | 563.2 | 620.9  | 673.8  | 720.2  |
| 137.5° | 323.1 | 343.4 | 367.8 | 394.7 | 424.0 | 459.0 | 500.5 | 546.1 | 594.9  | 642.1  | 683.6  |
| 140°   | 331.2 | 351.6 | 375.2 | 399.6 | 427.3 | 458.2 | 493.2 | 531.4 | 572.9  | 612.0  | 647.0  |
| 142.5° | 339.4 | 358.1 | 380.9 | 404.5 | 429.7 | 456.5 | 486.7 | 517.6 | 551.8  | 584.3  | 613.6  |
| 145°   | 345.9 | 364.6 | 385.7 | 407.7 | 430.5 | 454.9 | 481.0 | 507.0 | 533.9  | 559.9  | 583.5  |
| 147.5° | 354.0 | 370.3 | 389.8 | 410.2 | 430.5 | 452.5 | 475.3 | 498.1 | 520.0  | 542.0  | 559.1  |
| 150°   | 360.5 | 375.2 | 393.9 | 411.0 | 430.5 | 449.2 | 469.6 | 488.3 | 507.0  | 524.1  | 539.6  |
| 152.5° | 367.0 | 380.9 | 396.3 | 412.6 | 428.1 | 445.2 | 463.1 | 479.3 | 494.8  | 509.4  | 521.7  |
| 155°   | 374.4 | 385.7 | 399.6 | 412.6 | 426.4 | 440.3 | 456.5 | 470.4 | 483.4  | 495.6  | 505.4  |
| 157.5° | 380.9 | 389.8 | 401.2 | 413.4 | 424.0 | 436.2 | 449.2 | 460.6 | 472.0  | 481.8  | 489.9  |
| 160°   | 385.7 | 393.9 | 403.7 | 413.4 | 422.4 | 431.3 | 441.9 | 452.5 | 461.4  | 469.6  | 475.3  |
| 162.5° | 389.8 | 396.3 | 404.5 | 412.6 | 419.1 | 426.4 | 434.6 | 442.7 | 450.0  | 457.4  | 462.2  |
| 165°   | 393.1 | 398.8 | 405.3 | 411.0 | 415.9 | 421.6 | 428.1 | 434.6 | 439.5  | 445.2  | 449.2  |
| 167.5° | 396.3 | 400.4 | 405.3 | 410.2 | 412.6 | 416.7 | 421.6 | 427.3 | 431.3  | 434.6  | 437.8  |
| 170°   | 398.8 | 400.4 | 404.5 | 407.7 | 409.3 | 411.8 | 415.9 | 419.9 | 422.4  | 425.6  | 427.3  |
| 172.5° | 400.4 | 401.2 | 404.5 | 406.9 | 406.9 | 407.7 | 410.2 | 413.4 | 415.0  | 417.5  | 418.3  |
| 175°   | 401.2 | 402.0 | 403.7 | 405.3 | 404.5 | 404.5 | 406.1 | 407.7 | 408.5  | 410.2  | 410.2  |
| 177.5° | 402.0 | 402.0 | 402.8 | 404.5 | 402.8 | 402.0 | 402.8 | 403.7 | 404.5  | 405.3  | 405.3  |
| 180°   | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0 | 402.0  | 402.0  | 402.0  |



TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 1798.8 | 1798.8 | 1798.8 | 1798.8 |
| 2.5°   | 1598.9 | 1596.0 | 1584.3 | 1572.6 |
| 5°     | 1355.6 | 1345.6 | 1342.2 | 1338.9 |
| 7.5°   | 1184.5 | 1183.6 | 1166.1 | 1148.6 |
| 10°    | 1033.8 | 1035.1 | 1019.2 | 1003.3 |
| 12.5°  | 926.1  | 915.7  | 914.4  | 913.2  |
| 15°    | 845.2  | 835.6  | 833.9  | 832.2  |
| 17.5°  | 788.0  | 782.1  | 780.5  | 778.8  |
| 20°    | 744.6  | 741.2  | 738.3  | 735.4  |
| 22.5°  | 707.0  | 702.8  | 700.3  | 697.8  |
| 25°    | 670.7  | 666.9  | 666.1  | 665.3  |
| 27.5°  | 638.1  | 633.6  | 633.6  | 633.6  |
| 30°    | 607.3  | 604.3  | 603.1  | 601.8  |
| 32.5°  | 578.5  | 576.0  | 576.0  | 576.0  |
| 35°    | 551.3  | 550.1  | 548.4  | 546.7  |
| 37.5°  | 526.7  | 526.7  | 525.9  | 525.0  |
| 40°    | 502.9  | 504.2  | 504.2  | 504.2  |
| 42.5°  | 481.2  | 482.5  | 482.5  | 482.5  |
| 45°    | 458.7  | 460.8  | 461.6  | 462.4  |
| 47.5°  | 436.6  | 439.9  | 440.7  | 441.6  |
| 50°    | 414.9  | 417.4  | 417.8  | 418.2  |
| 52.5°  | 392.7  | 395.7  | 397.7  | 399.8  |
| 55°    | 369.4  | 372.3  | 373.5  | 374.8  |
| 57.5°  | 344.3  | 347.2  | 347.7  | 348.1  |
| 60°    | 316.8  | 319.7  | 320.5  | 321.4  |
| 62.5°  | 290.5  | 292.2  | 293.0  | 293.8  |
| 65°    | 260.4  | 262.9  | 264.6  | 266.3  |
| 67.5°  | 231.6  | 233.7  | 233.7  | 233.7  |
| 70°    | 199.5  | 200.3  | 201.6  | 202.8  |
| 72.5°  | 169.9  | 170.3  | 170.3  | 170.3  |
| 75°    | 138.6  | 139.4  | 139.8  | 140.2  |
| 77.5°  | 108.9  | 109.3  | 109.3  | 109.3  |
| 80°    | 79.7   | 79.3   | 79.3   | 79.3   |
| 82.5°  | 54.7   | 53.4   | 53.4   | 53.4   |
| 85°    | 31.3   | 30.9   | 31.3   | 31.7   |
| 87.5°  | 14.2   | 14.2   | 14.2   | 14.2   |
| 90°    | 22.8   | 23.6   | 24.4   | 23.6   |
| 92.5°  | 47.2   | 43.9   | 44.8   | 43.1   |
| 95°    | 110.7  | 103.4  | 97.7   | 94.4   |
| 97.5°  | 253.1  | 222.2  | 202.6  | 193.7  |
| 100°   | 600.6  | 541.2  | 509.4  | 510.3  |
| 102.5° | 900.9  | 856.9  | 831.7  | 808.1  |
| 105°   | 1096.2 | 1065.3 | 1039.2 | 1035.2 |
| 107.5° | 1217.5 | 1202.8 | 1192.2 | 1183.3 |
| 110°   | 1264.7 | 1271.2 | 1269.5 | 1267.9 |



TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 1252.5 | 1276.1 | 1284.2 | 1285.0 |
| 115°   | 1202.8 | 1238.6 | 1254.9 | 1259.0 |
| 117.5° | 1132.0 | 1171.9 | 1196.3 | 1202.0 |
| 120°   | 1057.1 | 1102.7 | 1122.2 | 1127.1 |
| 122.5° | 988.8  | 1028.7 | 1050.6 | 1057.1 |
| 125°   | 931.0  | 966.8  | 987.2  | 992.9  |
| 127.5° | 883.0  | 913.9  | 932.6  | 937.5  |
| 130°   | 839.0  | 868.3  | 885.4  | 891.9  |
| 132.5° | 799.2  | 828.5  | 843.1  | 847.2  |
| 135°   | 760.1  | 784.5  | 799.2  | 804.9  |
| 137.5° | 717.8  | 743.0  | 755.2  | 760.1  |
| 140°   | 677.9  | 700.7  | 713.7  | 712.9  |
| 142.5° | 638.8  | 658.4  | 669.8  | 669.0  |
| 145°   | 603.8  | 620.9  | 627.5  | 629.1  |
| 147.5° | 575.4  | 587.6  | 594.1  | 594.9  |
| 150°   | 551.8  | 560.7  | 565.6  | 565.6  |
| 152.5° | 530.6  | 538.7  | 541.2  | 541.2  |
| 155°   | 512.7  | 519.2  | 520.8  | 521.7  |
| 157.5° | 496.4  | 501.3  | 502.9  | 502.9  |
| 160°   | 481.0  | 485.8  | 485.8  | 485.0  |
| 162.5° | 465.5  | 469.6  | 469.6  | 468.8  |
| 165°   | 452.5  | 455.7  | 454.9  | 454.9  |
| 167.5° | 439.5  | 441.9  | 441.1  | 441.1  |
| 170°   | 428.1  | 429.7  | 428.9  | 428.9  |
| 172.5° | 418.3  | 419.9  | 418.3  | 417.5  |
| 175°   | 410.2  | 411.0  | 410.2  | 409.3  |
| 177.5° | 404.5  | 405.3  | 403.7  | 403.7  |
| 180°   | 402.0  | 402.0  | 402.0  | 402.0  |



TEST NUMBER: P831602

CATALOG NUMBER: S123DIP-S775D1025U930-4F0-1E-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 | 13.76            | 14.58 | 14.73 | 15.56 | 16.85 | 15.99          | 16.81 | 16.97 | 17.79 | 19.08 |
|                 | 3H   | 15.40            | 16.13 | 16.39 | 17.13 | 18.44 | 17.42          | 18.15 | 18.40 | 19.14 | 20.45 |
|                 | 4H   | 15.98            | 16.67 | 16.98 | 17.67 | 18.99 | 17.87          | 18.56 | 18.86 | 19.55 | 20.87 |
|                 | 6H   | 16.35            | 16.98 | 17.36 | 17.98 | 19.32 | 18.14          | 18.78 | 19.15 | 19.78 | 21.11 |
|                 | 8H   | 16.44            | 17.05 | 17.46 | 18.06 | 19.39 | 18.20          | 18.81 | 19.21 | 19.82 | 21.15 |
|                 | 12H  | 16.49            | 17.06 | 17.50 | 18.07 | 19.42 | 18.22          | 18.79 | 19.24 | 19.80 | 21.16 |
| 4H              | 2H   | 14.33            | 15.02 | 15.33 | 16.02 | 17.34 | 16.15          | 16.85 | 17.16 | 17.84 | 19.16 |
|                 | 3H   | 16.15            | 16.73 | 17.17 | 17.75 | 19.09 | 17.77          | 18.34 | 18.78 | 19.37 | 20.70 |
|                 | 4H   | 16.85            | 17.38 | 17.87 | 18.39 | 19.75 | 18.35          | 18.88 | 19.37 | 19.89 | 21.25 |
|                 | 6H   | 17.32            | 17.78 | 18.35 | 18.82 | 20.17 | 18.75          | 19.21 | 19.78 | 20.25 | 21.60 |
|                 | 8H   | 17.46            | 17.88 | 18.49 | 18.91 | 20.28 | 18.86          | 19.29 | 19.90 | 20.32 | 21.69 |
|                 | 12H  | 17.52            | 17.90 | 18.57 | 18.95 | 20.33 | 18.91          | 19.29 | 19.96 | 20.34 | 21.71 |
| 8H              | 4H   | 17.11            | 17.54 | 18.14 | 18.57 | 19.94 | 18.45          | 18.88 | 19.49 | 19.91 | 21.28 |
|                 | 6H   | 17.70            | 18.05 | 18.76 | 19.12 | 20.49 | 18.95          | 19.30 | 20.01 | 20.38 | 21.74 |
|                 | 8H   | 17.91            | 18.21 | 18.97 | 19.27 | 20.66 | 19.13          | 19.44 | 20.20 | 20.50 | 21.88 |
|                 | 12H  | 18.03            | 18.30 | 19.10 | 19.35 | 20.78 | 19.23          | 19.50 | 20.30 | 20.56 | 21.98 |
| 12H             | 4H   | 17.11            | 17.49 | 18.16 | 18.54 | 19.91 | 18.43          | 18.81 | 19.48 | 19.86 | 21.23 |
|                 | 6H   | 17.75            | 18.06 | 18.81 | 19.12 | 20.50 | 18.97          | 19.27 | 20.03 | 20.33 | 21.72 |
|                 | 8H   | 17.98            | 18.25 | 19.05 | 19.31 | 20.73 | 19.17          | 19.44 | 20.23 | 20.49 | 21.92 |