

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: P831492

Luminaire Tested: S123DIP-S560D1195U930-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831492
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1195U930-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

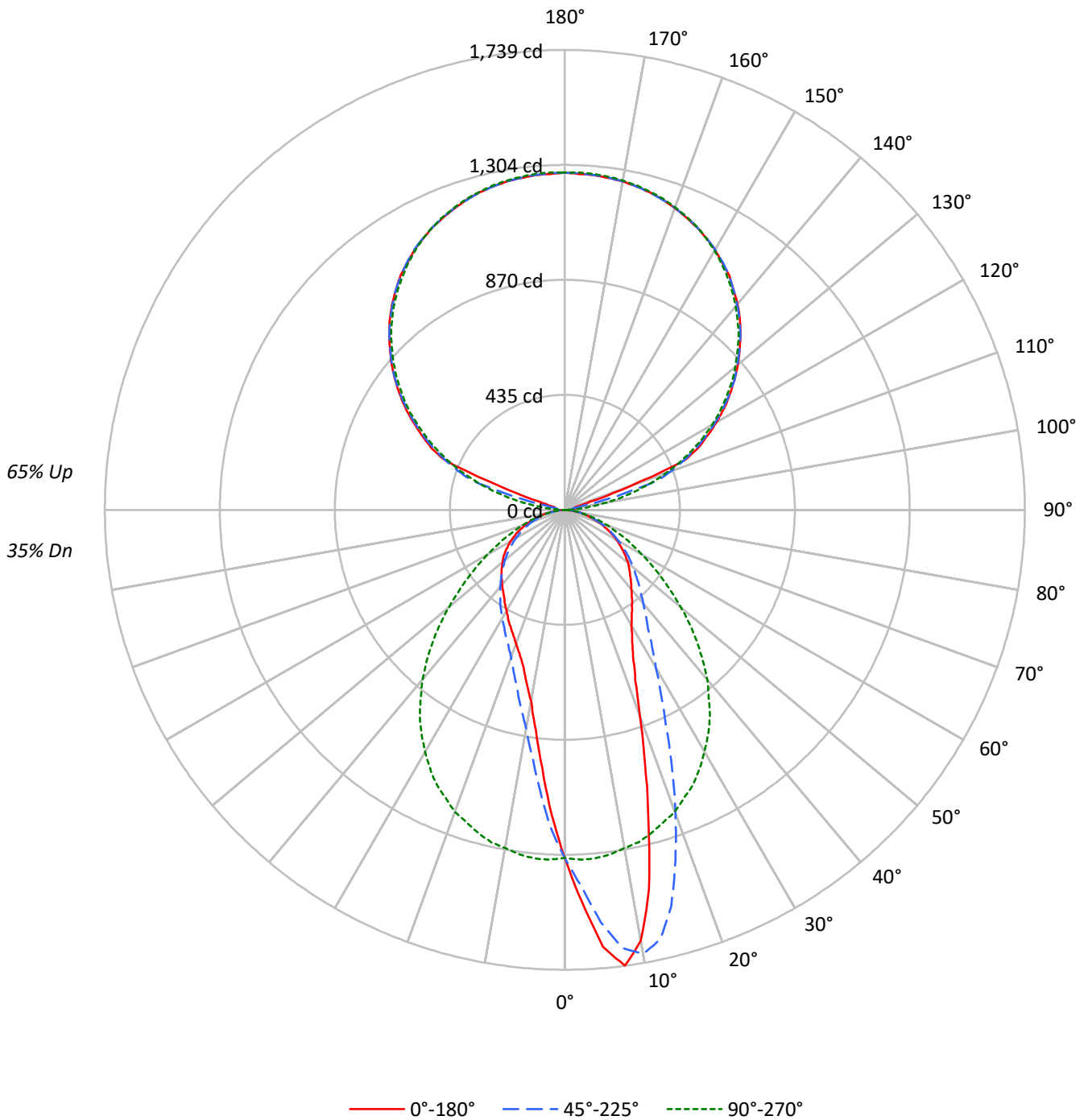
Lumens per Lamp: N/A
Luminaire Lumens: 6004.7 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.6
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: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

Luminous Intensity Polar Plot





TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 43 | 43 | 43 | 35 |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 38 | 37 | 37 | 30 |
| 2 | 87 | 80 | 74 | 69 | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 34 | 33 | 31 | 26 |
| 3 | 79 | 70 | 63 | 58 | 72 | 64 | 58 | 53 | 52 | 48 | 44 | 41 | 38 | 36 | 31 | 29 | 27 | 23 |
| 4 | 73 | 63 | 55 | 49 | 66 | 57 | 51 | 46 | 46 | 42 | 38 | 37 | 33 | 31 | 28 | 26 | 24 | 20 |
| 5 | 67 | 56 | 48 | 43 | 60 | 51 | 44 | 39 | 42 | 37 | 33 | 33 | 30 | 27 | 25 | 23 | 21 | 18 |
| 6 | 62 | 50 | 43 | 37 | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 30 | 27 | 24 | 23 | 21 | 19 | 16 |
| 7 | 57 | 45 | 38 | 33 | 52 | 42 | 35 | 30 | 34 | 29 | 26 | 28 | 24 | 21 | 21 | 19 | 17 | 14 |
| 8 | 53 | 41 | 34 | 29 | 48 | 38 | 31 | 27 | 31 | 27 | 23 | 25 | 22 | 19 | 20 | 17 | 15 | 13 |
| 9 | 49 | 38 | 31 | 26 | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 23 | 20 | 17 | 18 | 16 | 14 | 12 |
| 10 | 46 | 35 | 28 | 23 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 14165 | 14165 | 14165 | 14165 | 14165 |
| 5° | 17915 | 16908 | 14292 | 11517 | 10584 |
| 10° | 18088 | 18636 | 14197 | 9181 | 8023 |
| 15° | 13624 | 17302 | 14100 | 7775 | 6784 |
| 20° | 9493 | 14001 | 13920 | 6800 | 6163 |
| 25° | 7238 | 10766 | 13613 | 6255 | 5780 |
| 30° | 6262 | 8554 | 13123 | 5872 | 5473 |
| 35° | 5809 | 7222 | 12558 | 5593 | 5256 |
| 40° | 5500 | 6479 | 11764 | 5328 | 5182 |
| 45° | 5317 | 5996 | 10755 | 5122 | 5150 |
| 50° | 5226 | 5615 | 9562 | 4933 | 5123 |
| 55° | 5031 | 5335 | 8389 | 4755 | 5146 |
| 60° | 4850 | 5035 | 7231 | 4588 | 5061 |
| 65° | 4557 | 4753 | 6238 | 4409 | 4961 |
| 70° | 4208 | 4390 | 5303 | 4113 | 4670 |
| 75° | 3810 | 3938 | 4546 | 3822 | 4267 |
| 80° | 3143 | 3446 | 3595 | 3329 | 3595 |
| 85° | 2495 | 2791 | 2643 | 2828 | 2865 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 12280 cd/sqm



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.4 | 2.1 |
| 10°-20° | 309.5 | 5.2 |
| 20°-30° | 366.5 | 6.1 |
| 30°-40° | 368.5 | 6.1 |
| 40°-50° | 338.1 | 5.6 |
| 50°-60° | 279.0 | 4.6 |
| 60°-70° | 197.4 | 3.3 |
| 70°-80° | 105.4 | 1.8 |
| 80°-90° | 29.3 | 0.5 |
| 90°-100° | 44.9 | 0.7 |
| 100°-110° | 217.3 | 3.6 |
| 110°-120° | 532.6 | 8.9 |
| 120°-130° | 676.2 | 11.3 |
| 130°-140° | 722.4 | 12.0 |
| 140°-150° | 675.5 | 11.2 |
| 150°-160° | 544.9 | 9.1 |
| 160°-170° | 351.6 | 5.9 |
| 170°-180° | 121.2 | 2.0 |
| 0°-30° | 800.4 | 13.3 |
| 0°-40° | 1168.9 | 19.5 |
| 0°-60° | 1786.0 | 29.7 |
| 0°-90° | 2118.0 | 35.3 |
| 90°-120° | 794.9 | 13.2 |
| 90°-150° | 2869.0 | 47.8 |
| 90°-180° | 3887.0 | 64.7 |
| 0°-180° | 6004.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1316 | 1316 | 1316 | 1316 | 1316 | |
| 5° | 1658 | 1565 | 1323 | 1066 | 980 | 158 |
| 15° | 1223 | 1553 | 1265 | 698 | 609 | 338 |
| 25° | 609 | 906 | 1146 | 527 | 487 | 288 |
| 35° | 442 | 550 | 956 | 426 | 400 | 278 |
| 45° | 349 | 394 | 706 | 336 | 338 | 271 |
| 55° | 268 | 284 | 447 | 253 | 274 | 240 |
| 65° | 179 | 187 | 245 | 173 | 195 | 178 |
| 75° | 92 | 95 | 109 | 92 | 103 | 96 |
| 85° | 20 | 23 | 21 | 23 | 23 | 23 |
| 90° | 28 | 23 | 1 | 23 | 28 | 14 |
| 95° | 36 | 29 | 58 | 29 | 36 | 30 |
| 105° | 42 | 207 | 282 | 207 | 42 | 87 |
| 115° | 557 | 544 | 530 | 544 | 557 | 524 |
| 125° | 762 | 758 | 746 | 758 | 762 | 681 |
| 135° | 939 | 939 | 929 | 939 | 939 | 724 |
| 145° | 1083 | 1081 | 1072 | 1081 | 1083 | 676 |
| 155° | 1179 | 1180 | 1181 | 1180 | 1179 | 544 |
| 165° | 1243 | 1242 | 1246 | 1242 | 1243 | 351 |
| 175° | 1270 | 1271 | 1275 | 1271 | 1270 | 121 |
| 180° | 1275 | 1275 | 1275 | 1275 | 1275 | |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 |
| 2.5° | 1483.3 | 1481.8 | 1480.3 | 1472.6 | 1465.0 | 1461.3 | 1457.7 | 1446.7 | 1435.7 | 1423.5 | 1411.3 |
| 5° | 1658.0 | 1662.2 | 1666.5 | 1661.6 | 1656.7 | 1641.8 | 1626.8 | 1607.0 | 1587.1 | 1564.8 | 1542.5 |
| 7.5° | 1738.6 | 1741.0 | 1743.5 | 1740.4 | 1737.4 | 1733.4 | 1729.4 | 1711.7 | 1694.0 | 1671.1 | 1648.2 |
| 10° | 1654.9 | 1660.4 | 1665.9 | 1677.8 | 1689.7 | 1703.2 | 1716.6 | 1714.1 | 1711.7 | 1705.0 | 1698.3 |
| 12.5° | 1471.1 | 1477.8 | 1484.5 | 1508.4 | 1532.2 | 1562.7 | 1593.2 | 1619.5 | 1645.8 | 1664.1 | 1682.4 |
| 15° | 1222.6 | 1241.2 | 1259.8 | 1281.5 | 1303.2 | 1348.0 | 1392.9 | 1448.2 | 1503.5 | 1552.6 | 1601.8 |
| 17.5° | 1007.0 | 1014.0 | 1021.0 | 1044.2 | 1067.4 | 1123.9 | 1180.4 | 1244.2 | 1308.1 | 1389.6 | 1471.1 |
| 20° | 828.7 | 835.1 | 841.5 | 872.0 | 902.6 | 946.8 | 991.1 | 1062.9 | 1134.6 | 1222.3 | 1309.9 |
| 22.5° | 696.2 | 706.2 | 716.3 | 733.4 | 750.5 | 793.0 | 835.4 | 899.2 | 963.0 | 1059.8 | 1156.6 |
| 25° | 609.4 | 616.8 | 624.1 | 634.5 | 644.9 | 678.8 | 712.6 | 765.2 | 817.7 | 906.5 | 995.4 |
| 27.5° | 550.2 | 553.3 | 556.3 | 566.7 | 577.1 | 599.1 | 621.0 | 666.2 | 711.4 | 786.8 | 862.3 |
| 30° | 503.8 | 505.9 | 508.1 | 517.2 | 526.4 | 541.4 | 556.3 | 589.0 | 621.7 | 688.2 | 754.8 |
| 32.5° | 471.4 | 473.0 | 474.5 | 481.5 | 488.5 | 499.2 | 509.9 | 533.7 | 557.5 | 612.5 | 667.5 |
| 35° | 442.1 | 443.0 | 444.0 | 449.1 | 454.3 | 462.3 | 470.2 | 488.2 | 506.2 | 549.6 | 593.0 |
| 37.5° | 416.5 | 417.7 | 418.9 | 422.0 | 425.0 | 432.0 | 439.1 | 453.4 | 467.8 | 501.1 | 534.3 |
| 40° | 391.4 | 393.6 | 395.7 | 397.9 | 400.0 | 405.8 | 411.6 | 422.6 | 433.6 | 461.1 | 488.5 |
| 42.5° | 370.1 | 372.2 | 374.3 | 375.3 | 376.2 | 379.5 | 382.9 | 393.0 | 403.0 | 423.5 | 444.0 |
| 45° | 349.3 | 350.2 | 351.1 | 352.1 | 353.0 | 355.7 | 358.5 | 367.3 | 376.2 | 393.9 | 411.6 |
| 47.5° | 330.4 | 330.4 | 330.4 | 331.0 | 331.6 | 334.0 | 336.5 | 342.9 | 349.3 | 363.0 | 376.8 |
| 50° | 312.1 | 312.1 | 312.1 | 311.1 | 310.2 | 311.7 | 313.3 | 318.2 | 323.0 | 335.3 | 347.5 |
| 52.5° | 290.1 | 290.1 | 290.1 | 290.4 | 290.7 | 290.7 | 290.7 | 295.0 | 299.2 | 310.2 | 321.2 |
| 55° | 268.1 | 269.3 | 270.5 | 269.6 | 268.7 | 269.3 | 269.9 | 272.7 | 275.4 | 284.3 | 293.1 |
| 57.5° | 246.1 | 246.7 | 247.3 | 247.0 | 246.7 | 247.0 | 247.3 | 249.8 | 252.2 | 258.9 | 265.6 |
| 60° | 225.3 | 225.3 | 225.3 | 224.7 | 224.1 | 224.7 | 225.3 | 226.6 | 227.8 | 233.9 | 240.0 |
| 62.5° | 202.1 | 202.4 | 202.7 | 203.0 | 203.4 | 202.7 | 202.1 | 203.7 | 205.2 | 209.8 | 214.3 |
| 65° | 178.9 | 179.2 | 179.5 | 180.5 | 181.4 | 180.8 | 180.1 | 181.7 | 183.2 | 186.6 | 189.9 |
| 67.5° | 158.2 | 157.6 | 156.9 | 157.2 | 157.6 | 158.5 | 159.4 | 159.7 | 160.0 | 163.7 | 167.3 |
| 70° | 133.7 | 134.3 | 135.0 | 134.7 | 134.3 | 134.7 | 135.0 | 135.9 | 136.8 | 139.5 | 142.3 |
| 72.5° | 111.8 | 112.1 | 112.4 | 112.4 | 112.4 | 113.0 | 113.6 | 114.5 | 115.4 | 116.9 | 118.5 |
| 75° | 91.6 | 91.6 | 91.6 | 92.2 | 92.8 | 93.1 | 93.4 | 93.4 | 93.4 | 94.7 | 95.9 |
| 77.5° | 69.6 | 71.1 | 72.7 | 72.4 | 72.1 | 72.7 | 73.3 | 74.2 | 75.1 | 75.7 | 76.3 |
| 80° | 50.7 | 50.7 | 50.7 | 51.0 | 51.3 | 52.2 | 53.1 | 53.7 | 54.3 | 55.6 | 56.8 |
| 82.5° | 32.4 | 32.7 | 33.0 | 33.9 | 34.8 | 35.4 | 36.0 | 36.9 | 37.9 | 37.9 | 37.9 |
| 85° | 20.2 | 19.5 | 18.9 | 19.5 | 20.2 | 20.8 | 21.4 | 21.7 | 22.0 | 22.6 | 23.2 |
| 87.5° | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 10.1 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 90° | 28.4 | 28.0 | 27.6 | 27.2 | 26.7 | 26.1 | 25.3 | 24.4 | 23.6 | 22.7 | 20.0 |
| 92.5° | 32.2 | 32.0 | 31.8 | 31.6 | 31.4 | 30.5 | 29.0 | 27.6 | 26.1 | 24.6 | 22.7 |
| 95° | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 35.3 | 33.8 | 32.3 | 30.8 | 29.4 | 27.0 |
| 97.5° | 38.8 | 38.6 | 38.4 | 38.2 | 38.0 | 37.0 | 35.4 | 33.7 | 32.0 | 30.3 | 41.0 |
| 100° | 39.8 | 39.6 | 39.4 | 39.2 | 38.9 | 38.0 | 36.3 | 34.6 | 32.9 | 31.3 | 64.1 |
| 102.5° | 40.7 | 40.3 | 39.9 | 39.5 | 39.0 | 42.3 | 49.3 | 56.2 | 63.1 | 70.1 | 106.7 |
| 105° | 41.7 | 41.3 | 40.8 | 40.4 | 40.0 | 58.4 | 95.7 | 132.9 | 170.2 | 207.4 | 226.4 |
| 107.5° | 98.5 | 126.1 | 153.7 | 181.2 | 208.8 | 238.8 | 271.2 | 303.6 | 336.1 | 368.5 | 365.3 |
| 110° | 260.5 | 290.6 | 320.7 | 350.8 | 380.9 | 399.4 | 406.4 | 413.3 | 420.3 | 427.2 | 424.9 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 493.5 | 493.9 | 494.3 | 494.8 | 495.2 | 494.4 | 492.6 | 490.7 | 488.8 | 486.9 | 484.6 |
| 115° | 557.0 | 556.1 | 555.3 | 554.4 | 553.6 | 552.1 | 550.0 | 547.9 | 545.8 | 543.7 | 541.8 |
| 117.5° | 608.1 | 607.9 | 607.7 | 607.5 | 607.3 | 606.3 | 604.6 | 603.0 | 601.3 | 599.6 | 598.5 |
| 120° | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 | 660.3 | 658.6 | 657.0 | 655.3 | 653.6 | 653.0 |
| 122.5° | 713.3 | 713.0 | 712.8 | 712.6 | 712.4 | 711.8 | 710.7 | 709.7 | 708.6 | 707.6 | 706.7 |
| 125° | 761.6 | 761.1 | 760.7 | 760.3 | 759.9 | 759.5 | 759.0 | 758.6 | 758.2 | 757.8 | 756.9 |
| 127.5° | 808.9 | 809.3 | 809.8 | 810.2 | 810.6 | 810.5 | 809.9 | 809.2 | 808.6 | 808.0 | 806.9 |
| 130° | 854.4 | 854.8 | 855.2 | 855.7 | 856.1 | 855.9 | 855.0 | 854.2 | 853.3 | 852.5 | 851.7 |
| 132.5° | 896.1 | 896.7 | 897.3 | 898.0 | 898.6 | 898.5 | 897.7 | 896.8 | 896.0 | 895.1 | 894.5 |
| 135° | 938.7 | 939.3 | 940.0 | 940.6 | 941.2 | 941.2 | 940.6 | 940.0 | 939.3 | 938.7 | 937.9 |
| 137.5° | 979.4 | 979.8 | 980.3 | 980.7 | 981.1 | 980.8 | 979.7 | 978.7 | 977.6 | 976.6 | 976.2 |
| 140° | 1015.4 | 1015.8 | 1016.3 | 1016.7 | 1017.1 | 1016.9 | 1016.1 | 1015.2 | 1014.4 | 1013.5 | 1012.9 |
| 142.5° | 1048.6 | 1049.2 | 1049.8 | 1050.5 | 1051.1 | 1051.1 | 1050.5 | 1049.8 | 1049.2 | 1048.6 | 1047.9 |
| 145° | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.5 | 1082.0 | 1081.6 | 1081.2 | 1080.8 | 1080.4 |
| 147.5° | 1107.3 | 1108.4 | 1109.4 | 1110.5 | 1111.5 | 1111.8 | 1111.4 | 1111.0 | 1110.6 | 1110.1 | 1109.7 |
| 150° | 1135.7 | 1136.4 | 1137.0 | 1137.6 | 1138.2 | 1138.3 | 1137.9 | 1137.5 | 1137.1 | 1136.7 | 1136.2 |
| 152.5° | 1158.5 | 1159.5 | 1160.6 | 1161.6 | 1162.7 | 1162.8 | 1161.9 | 1161.1 | 1160.2 | 1159.4 | 1159.2 |
| 155° | 1179.3 | 1180.6 | 1181.8 | 1183.1 | 1184.3 | 1184.4 | 1183.4 | 1182.3 | 1181.3 | 1180.2 | 1180.0 |
| 157.5° | 1197.3 | 1199.0 | 1200.7 | 1202.3 | 1204.0 | 1204.2 | 1203.0 | 1201.7 | 1200.4 | 1199.2 | 1199.4 |
| 160° | 1214.3 | 1215.8 | 1217.3 | 1218.8 | 1220.2 | 1220.3 | 1219.1 | 1217.8 | 1216.5 | 1215.3 | 1215.5 |
| 162.5° | 1230.4 | 1231.7 | 1233.0 | 1234.2 | 1235.5 | 1235.4 | 1233.9 | 1232.4 | 1231.0 | 1229.5 | 1229.7 |
| 165° | 1242.8 | 1244.2 | 1245.7 | 1247.2 | 1248.6 | 1248.5 | 1246.9 | 1245.2 | 1243.5 | 1241.8 | 1242.0 |
| 167.5° | 1252.2 | 1253.9 | 1255.6 | 1257.3 | 1259.0 | 1259.0 | 1257.3 | 1255.6 | 1253.9 | 1252.2 | 1252.2 |
| 170° | 1260.8 | 1262.4 | 1264.1 | 1265.8 | 1267.5 | 1267.5 | 1265.8 | 1264.1 | 1262.4 | 1260.8 | 1260.8 |
| 172.5° | 1265.5 | 1267.4 | 1269.3 | 1271.2 | 1273.1 | 1273.2 | 1271.5 | 1269.8 | 1268.1 | 1266.4 | 1266.2 |
| 175° | 1270.2 | 1271.9 | 1273.6 | 1275.3 | 1277.0 | 1277.1 | 1275.6 | 1274.1 | 1272.6 | 1271.2 | 1271.0 |
| 177.5° | 1271.2 | 1273.3 | 1275.4 | 1277.5 | 1279.6 | 1279.8 | 1278.1 | 1276.4 | 1274.7 | 1273.1 | 1272.9 |
| 180° | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 |
| 2.5° | 1407.6 | 1403.9 | 1390.5 | 1377.1 | 1361.8 | 1346.5 | 1335.2 | 1323.9 | 1307.1 | 1290.3 | 1276.6 |
| 5° | 1525.4 | 1508.4 | 1480.0 | 1451.6 | 1413.1 | 1374.6 | 1348.7 | 1322.7 | 1287.9 | 1253.1 | 1225.3 |
| 7.5° | 1618.9 | 1589.6 | 1549.9 | 1510.2 | 1459.8 | 1409.4 | 1361.8 | 1314.2 | 1261.0 | 1207.9 | 1164.5 |
| 10° | 1678.4 | 1658.6 | 1612.8 | 1567.0 | 1499.5 | 1432.0 | 1365.5 | 1298.9 | 1230.5 | 1162.1 | 1104.7 |
| 12.5° | 1684.2 | 1686.1 | 1643.9 | 1601.8 | 1525.4 | 1449.1 | 1368.2 | 1287.3 | 1201.2 | 1115.1 | 1048.2 |
| 15° | 1633.2 | 1664.7 | 1641.5 | 1618.3 | 1541.3 | 1464.4 | 1364.8 | 1265.3 | 1166.1 | 1066.8 | 989.6 |
| 17.5° | 1538.6 | 1606.1 | 1609.4 | 1612.8 | 1535.8 | 1458.9 | 1348.7 | 1238.4 | 1126.1 | 1013.7 | 932.5 |
| 20° | 1409.4 | 1509.0 | 1543.2 | 1577.4 | 1514.8 | 1452.2 | 1333.7 | 1215.2 | 1089.4 | 963.6 | 878.4 |
| 22.5° | 1277.5 | 1398.4 | 1461.0 | 1523.6 | 1477.2 | 1430.8 | 1304.7 | 1178.6 | 1045.8 | 912.9 | 826.5 |
| 25° | 1127.3 | 1259.2 | 1355.4 | 1451.6 | 1423.2 | 1394.8 | 1270.5 | 1146.2 | 1004.9 | 863.5 | 775.2 |
| 27.5° | 996.3 | 1130.3 | 1246.4 | 1362.4 | 1356.3 | 1350.2 | 1226.8 | 1103.5 | 958.7 | 814.0 | 728.8 |
| 30° | 879.7 | 1004.5 | 1134.3 | 1264.1 | 1279.0 | 1294.0 | 1174.9 | 1055.8 | 910.8 | 765.8 | 683.6 |
| 32.5° | 776.5 | 885.5 | 1024.7 | 1163.9 | 1193.2 | 1222.6 | 1115.1 | 1007.6 | 864.1 | 720.6 | 641.5 |
| 35° | 691.9 | 790.8 | 930.0 | 1069.3 | 1105.9 | 1142.6 | 1049.1 | 955.7 | 815.9 | 676.0 | 600.6 |
| 37.5° | 617.1 | 699.8 | 835.7 | 971.6 | 1016.5 | 1061.3 | 977.7 | 894.0 | 763.0 | 632.0 | 562.7 |
| 40° | 555.1 | 621.7 | 746.5 | 871.4 | 923.3 | 975.2 | 906.2 | 837.2 | 713.0 | 588.7 | 524.9 |
| 42.5° | 503.2 | 562.4 | 675.7 | 789.0 | 838.8 | 888.5 | 830.2 | 771.9 | 661.4 | 550.8 | 492.5 |
| 45° | 458.9 | 506.2 | 609.1 | 712.0 | 759.4 | 806.7 | 756.6 | 706.5 | 609.1 | 511.7 | 457.4 |
| 47.5° | 417.4 | 458.0 | 545.9 | 633.9 | 676.0 | 718.1 | 679.1 | 640.0 | 557.5 | 475.1 | 425.9 |
| 50° | 380.1 | 412.8 | 489.8 | 566.7 | 603.3 | 640.0 | 605.5 | 571.0 | 503.2 | 435.4 | 392.7 |
| 52.5° | 347.8 | 374.3 | 438.8 | 503.2 | 534.6 | 566.1 | 536.5 | 506.9 | 453.1 | 399.4 | 362.1 |
| 55° | 315.7 | 338.3 | 394.2 | 450.1 | 471.4 | 492.8 | 469.9 | 447.0 | 403.7 | 360.3 | 328.8 |
| 57.5° | 285.8 | 305.9 | 351.7 | 397.5 | 414.0 | 430.5 | 409.8 | 389.0 | 356.3 | 323.7 | 297.4 |
| 60° | 256.5 | 273.0 | 311.1 | 349.3 | 359.4 | 369.5 | 352.7 | 335.9 | 313.0 | 290.1 | 266.6 |
| 62.5° | 229.3 | 244.3 | 272.7 | 301.1 | 307.8 | 314.5 | 301.7 | 288.8 | 271.4 | 254.0 | 235.7 |
| 65° | 201.2 | 212.5 | 235.7 | 258.9 | 263.2 | 267.5 | 256.2 | 244.9 | 231.7 | 218.6 | 205.2 |
| 67.5° | 175.3 | 183.2 | 202.1 | 221.1 | 221.4 | 221.7 | 212.5 | 203.4 | 196.0 | 188.7 | 178.0 |
| 70° | 149.9 | 157.6 | 170.1 | 182.6 | 182.9 | 183.2 | 175.9 | 168.5 | 163.0 | 157.6 | 149.6 |
| 72.5° | 124.0 | 129.5 | 138.9 | 148.4 | 147.8 | 147.2 | 142.6 | 138.0 | 133.7 | 129.5 | 123.7 |
| 75° | 100.5 | 105.0 | 111.4 | 117.9 | 116.0 | 114.2 | 111.8 | 109.3 | 105.6 | 102.0 | 98.3 |
| 77.5° | 79.1 | 81.8 | 85.5 | 89.2 | 87.9 | 86.7 | 84.6 | 82.4 | 79.7 | 76.9 | 75.4 |
| 80° | 58.0 | 59.2 | 61.7 | 64.1 | 63.5 | 62.9 | 60.5 | 58.0 | 57.4 | 56.8 | 54.7 |
| 82.5° | 39.4 | 40.9 | 41.5 | 42.1 | 41.8 | 41.5 | 39.7 | 37.9 | 37.3 | 36.6 | 36.3 |
| 85° | 23.5 | 23.8 | 24.1 | 24.4 | 23.5 | 22.6 | 22.0 | 21.4 | 21.4 | 21.4 | 21.1 |
| 87.5° | 10.7 | 11.0 | 11.0 | 11.0 | 10.7 | 10.4 | 9.8 | 9.2 | 9.5 | 9.8 | 9.8 |
| 90° | 17.3 | 14.5 | 11.8 | 9.4 | 7.3 | 5.2 | 3.1 | 0.9 | 3.1 | 5.2 | 7.3 |
| 92.5° | 20.8 | 18.9 | 17.0 | 16.7 | 18.0 | 19.3 | 20.5 | 21.8 | 20.5 | 19.3 | 18.0 |
| 95° | 24.7 | 22.4 | 20.1 | 23.3 | 31.9 | 40.5 | 49.2 | 57.8 | 49.2 | 40.5 | 31.9 |
| 97.5° | 51.8 | 62.5 | 73.3 | 81.6 | 87.5 | 93.4 | 99.2 | 105.1 | 99.2 | 93.4 | 87.5 |
| 100° | 96.9 | 129.8 | 162.6 | 176.9 | 172.7 | 168.5 | 164.3 | 160.1 | 164.3 | 168.5 | 172.7 |
| 102.5° | 143.3 | 180.0 | 216.6 | 233.5 | 230.8 | 228.1 | 225.3 | 222.6 | 225.3 | 228.1 | 230.8 |
| 105° | 245.3 | 264.3 | 283.2 | 291.5 | 289.2 | 286.9 | 284.6 | 282.3 | 284.6 | 286.9 | 289.2 |
| 107.5° | 362.2 | 359.0 | 355.8 | 353.3 | 351.4 | 349.5 | 347.6 | 345.7 | 347.6 | 349.5 | 351.4 |
| 110° | 422.6 | 420.3 | 417.9 | 415.9 | 414.3 | 412.6 | 410.9 | 409.2 | 410.9 | 412.6 | 414.3 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 482.2 | 479.9 | 477.6 | 475.7 | 474.2 | 472.8 | 471.3 | 469.8 | 471.3 | 472.8 | 474.2 |
| 115° | 539.9 | 538.0 | 536.1 | 534.5 | 533.3 | 532.0 | 530.8 | 529.5 | 530.8 | 532.0 | 533.3 |
| 117.5° | 597.5 | 596.4 | 595.4 | 594.1 | 592.6 | 591.2 | 589.7 | 588.2 | 589.7 | 591.2 | 592.6 |
| 120° | 652.3 | 651.7 | 651.1 | 649.8 | 647.9 | 646.0 | 644.1 | 642.2 | 644.1 | 646.0 | 647.9 |
| 122.5° | 705.9 | 705.0 | 704.2 | 703.0 | 701.6 | 700.1 | 698.6 | 697.2 | 698.6 | 700.1 | 701.6 |
| 125° | 756.1 | 755.3 | 754.4 | 753.1 | 751.5 | 749.8 | 748.1 | 746.4 | 748.1 | 749.8 | 751.5 |
| 127.5° | 805.9 | 804.8 | 803.8 | 802.4 | 800.7 | 799.0 | 797.4 | 795.7 | 797.4 | 799.0 | 800.7 |
| 130° | 850.8 | 850.0 | 849.1 | 847.9 | 846.2 | 844.5 | 842.8 | 841.1 | 842.8 | 844.5 | 846.2 |
| 132.5° | 893.9 | 893.2 | 892.6 | 891.4 | 889.8 | 888.1 | 886.4 | 884.7 | 886.4 | 888.1 | 889.8 |
| 135° | 937.0 | 936.2 | 935.3 | 934.3 | 933.0 | 931.8 | 930.5 | 929.2 | 930.5 | 931.8 | 933.0 |
| 137.5° | 975.7 | 975.3 | 974.9 | 973.8 | 972.2 | 970.5 | 968.8 | 967.1 | 968.8 | 970.5 | 972.2 |
| 140° | 1012.3 | 1011.6 | 1011.0 | 1010.1 | 1008.8 | 1007.5 | 1006.3 | 1005.0 | 1006.3 | 1007.5 | 1008.8 |
| 142.5° | 1047.3 | 1046.7 | 1046.0 | 1045.1 | 1043.8 | 1042.6 | 1041.3 | 1040.0 | 1041.3 | 1042.6 | 1043.8 |
| 145° | 1079.9 | 1079.5 | 1079.1 | 1078.1 | 1076.7 | 1075.2 | 1073.7 | 1072.3 | 1073.7 | 1075.2 | 1076.7 |
| 147.5° | 1109.3 | 1108.9 | 1108.5 | 1107.7 | 1106.7 | 1105.6 | 1104.6 | 1103.5 | 1104.6 | 1105.6 | 1106.7 |
| 150° | 1135.8 | 1135.4 | 1135.0 | 1134.5 | 1133.8 | 1133.2 | 1132.6 | 1131.9 | 1132.6 | 1133.2 | 1133.8 |
| 152.5° | 1159.0 | 1158.8 | 1158.6 | 1158.3 | 1158.1 | 1157.9 | 1157.7 | 1157.5 | 1157.7 | 1157.9 | 1158.1 |
| 155° | 1179.8 | 1179.6 | 1179.4 | 1179.5 | 1179.9 | 1180.3 | 1180.8 | 1181.2 | 1180.8 | 1180.3 | 1179.9 |
| 157.5° | 1199.6 | 1199.8 | 1200.0 | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1200.1 |
| 160° | 1215.7 | 1215.9 | 1216.1 | 1216.3 | 1216.5 | 1216.8 | 1217.0 | 1217.2 | 1217.0 | 1216.8 | 1216.5 |
| 162.5° | 1229.9 | 1230.1 | 1230.3 | 1230.8 | 1231.4 | 1232.0 | 1232.7 | 1233.3 | 1232.7 | 1232.0 | 1231.4 |
| 165° | 1242.2 | 1242.4 | 1242.6 | 1243.1 | 1243.7 | 1244.3 | 1245.0 | 1245.6 | 1245.0 | 1244.3 | 1243.7 |
| 167.5° | 1252.2 | 1252.2 | 1252.2 | 1252.6 | 1253.5 | 1254.3 | 1255.2 | 1256.0 | 1255.2 | 1254.3 | 1253.5 |
| 170° | 1260.8 | 1260.8 | 1260.8 | 1261.2 | 1262.0 | 1262.9 | 1263.7 | 1264.5 | 1263.7 | 1262.9 | 1262.0 |
| 172.5° | 1266.0 | 1265.8 | 1265.6 | 1266.0 | 1267.1 | 1268.1 | 1269.2 | 1270.2 | 1269.2 | 1268.1 | 1267.1 |
| 175° | 1270.8 | 1270.5 | 1270.3 | 1270.8 | 1271.8 | 1272.9 | 1273.9 | 1275.0 | 1273.9 | 1272.9 | 1271.8 |
| 177.5° | 1272.6 | 1272.4 | 1272.2 | 1272.6 | 1273.7 | 1274.7 | 1275.8 | 1276.9 | 1275.8 | 1274.7 | 1273.7 |
| 180° | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 | 1316.0 |
| 2.5° | 1262.9 | 1251.0 | 1239.0 | 1229.9 | 1220.7 | 1205.2 | 1189.6 | 1185.9 | 1182.3 | 1177.1 | 1171.9 |
| 5° | 1197.5 | 1168.2 | 1138.9 | 1112.6 | 1086.4 | 1065.9 | 1045.5 | 1032.0 | 1018.6 | 1008.8 | 999.1 |
| 7.5° | 1121.2 | 1077.2 | 1033.3 | 1002.1 | 971.0 | 941.3 | 911.7 | 902.3 | 892.8 | 880.0 | 867.1 |
| 10° | 1047.3 | 998.7 | 950.2 | 909.6 | 869.0 | 840.0 | 811.0 | 799.4 | 787.8 | 771.6 | 755.4 |
| 12.5° | 981.3 | 928.2 | 875.1 | 834.2 | 793.3 | 765.2 | 737.1 | 720.3 | 703.5 | 694.3 | 685.2 |
| 15° | 912.3 | 855.5 | 798.8 | 760.9 | 723.0 | 697.7 | 672.3 | 657.7 | 643.0 | 634.2 | 625.3 |
| 17.5° | 851.3 | 795.1 | 738.9 | 702.6 | 666.2 | 643.0 | 619.8 | 607.0 | 594.2 | 587.5 | 580.7 |
| 20° | 793.3 | 738.3 | 683.3 | 647.9 | 612.5 | 593.6 | 574.6 | 566.4 | 558.2 | 552.7 | 547.2 |
| 22.5° | 740.1 | 686.1 | 632.0 | 601.8 | 571.6 | 556.3 | 541.1 | 535.3 | 529.4 | 524.9 | 520.3 |
| 25° | 687.0 | 638.8 | 590.5 | 564.9 | 539.2 | 526.7 | 514.2 | 508.4 | 502.6 | 498.0 | 493.4 |
| 27.5° | 643.6 | 597.5 | 551.4 | 529.4 | 507.5 | 497.7 | 487.9 | 483.3 | 478.8 | 474.5 | 470.2 |
| 30° | 601.5 | 560.3 | 519.1 | 500.1 | 481.2 | 472.4 | 463.5 | 458.9 | 454.3 | 450.4 | 446.4 |
| 32.5° | 562.4 | 527.0 | 491.6 | 474.2 | 456.8 | 449.5 | 442.1 | 436.6 | 431.1 | 428.1 | 425.0 |
| 35° | 525.2 | 493.4 | 461.7 | 447.3 | 433.0 | 425.6 | 418.3 | 413.7 | 409.1 | 406.7 | 404.3 |
| 37.5° | 493.4 | 465.0 | 436.6 | 422.9 | 409.1 | 402.1 | 395.1 | 391.1 | 387.2 | 386.2 | 385.3 |
| 40° | 461.1 | 436.6 | 412.2 | 398.8 | 385.3 | 379.2 | 373.1 | 370.7 | 368.2 | 367.6 | 367.0 |
| 42.5° | 434.2 | 410.4 | 386.6 | 374.3 | 362.1 | 356.9 | 351.7 | 350.5 | 349.3 | 350.2 | 351.1 |
| 45° | 403.0 | 383.2 | 363.3 | 352.1 | 340.8 | 336.5 | 332.2 | 331.3 | 330.4 | 332.2 | 334.0 |
| 47.5° | 376.8 | 358.5 | 340.1 | 329.5 | 318.8 | 315.7 | 312.7 | 312.4 | 312.1 | 314.5 | 316.9 |
| 50° | 349.9 | 332.2 | 314.5 | 305.9 | 297.4 | 294.6 | 291.9 | 292.8 | 293.7 | 297.7 | 301.7 |
| 52.5° | 324.9 | 308.4 | 291.9 | 284.0 | 276.0 | 274.2 | 272.4 | 274.5 | 276.6 | 280.9 | 285.2 |
| 55° | 297.4 | 282.4 | 267.5 | 261.4 | 255.3 | 253.4 | 251.6 | 255.9 | 260.1 | 264.1 | 268.1 |
| 57.5° | 271.1 | 258.0 | 244.9 | 239.4 | 233.9 | 233.6 | 233.3 | 237.2 | 241.2 | 245.5 | 249.8 |
| 60° | 243.0 | 232.1 | 221.1 | 216.8 | 212.5 | 213.1 | 213.7 | 218.3 | 222.9 | 226.3 | 229.6 |
| 62.5° | 217.4 | 208.2 | 199.1 | 195.1 | 191.1 | 192.7 | 194.2 | 198.8 | 203.4 | 207.3 | 211.3 |
| 65° | 191.7 | 184.1 | 176.5 | 173.7 | 171.0 | 173.1 | 175.3 | 179.2 | 183.2 | 185.9 | 188.7 |
| 67.5° | 167.3 | 160.9 | 154.5 | 152.4 | 150.2 | 152.4 | 154.5 | 158.5 | 162.4 | 165.2 | 167.9 |
| 70° | 141.7 | 136.5 | 131.3 | 129.8 | 128.2 | 130.7 | 133.1 | 136.5 | 139.8 | 142.6 | 145.3 |
| 72.5° | 117.9 | 113.9 | 109.9 | 109.6 | 109.3 | 111.4 | 113.6 | 116.9 | 120.3 | 122.1 | 124.0 |
| 75° | 94.7 | 92.5 | 90.4 | 90.1 | 89.8 | 91.9 | 94.0 | 95.9 | 97.7 | 99.2 | 100.8 |
| 77.5° | 73.9 | 72.1 | 70.2 | 70.5 | 70.8 | 72.4 | 73.9 | 75.7 | 77.6 | 78.5 | 79.4 |
| 80° | 52.5 | 51.9 | 51.3 | 51.9 | 52.5 | 53.7 | 55.0 | 56.2 | 57.4 | 58.0 | 58.6 |
| 82.5° | 36.0 | 35.4 | 34.8 | 35.7 | 36.6 | 37.6 | 38.5 | 39.4 | 40.3 | 40.6 | 40.9 |
| 85° | 20.8 | 21.7 | 22.6 | 22.6 | 22.6 | 22.9 | 23.2 | 23.5 | 23.8 | 23.5 | 23.2 |
| 87.5° | 9.8 | 10.1 | 10.4 | 10.4 | 10.4 | 10.7 | 11.0 | 11.0 | 11.0 | 10.7 | 10.4 |
| 90° | 9.4 | 11.8 | 14.5 | 17.3 | 20.0 | 22.7 | 23.6 | 24.4 | 25.3 | 26.1 | 26.7 |
| 92.5° | 16.7 | 17.0 | 18.9 | 20.8 | 22.7 | 24.6 | 26.1 | 27.6 | 29.0 | 30.5 | 31.4 |
| 95° | 23.3 | 20.1 | 22.4 | 24.7 | 27.0 | 29.4 | 30.8 | 32.3 | 33.8 | 35.3 | 36.0 |
| 97.5° | 81.6 | 73.3 | 62.5 | 51.8 | 41.0 | 30.3 | 32.0 | 33.7 | 35.4 | 37.0 | 38.0 |
| 100° | 176.9 | 162.6 | 129.8 | 96.9 | 64.1 | 31.3 | 32.9 | 34.6 | 36.3 | 38.0 | 38.9 |
| 102.5° | 233.5 | 216.6 | 180.0 | 143.3 | 106.7 | 70.1 | 63.1 | 56.2 | 49.3 | 42.3 | 39.0 |
| 105° | 291.5 | 283.2 | 264.3 | 245.3 | 226.4 | 207.4 | 170.2 | 132.9 | 95.7 | 58.4 | 40.0 |
| 107.5° | 353.3 | 355.8 | 359.0 | 362.2 | 365.3 | 368.5 | 336.1 | 303.6 | 271.2 | 238.8 | 208.8 |
| 110° | 415.9 | 417.9 | 420.3 | 422.6 | 424.9 | 427.2 | 420.3 | 413.3 | 406.4 | 399.4 | 380.9 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 475.7 | 477.6 | 479.9 | 482.2 | 484.6 | 486.9 | 488.8 | 490.7 | 492.6 | 494.4 | 495.2 |
| 115° | 534.5 | 536.1 | 538.0 | 539.9 | 541.8 | 543.7 | 545.8 | 547.9 | 550.0 | 552.1 | 553.6 |
| 117.5° | 594.1 | 595.4 | 596.4 | 597.5 | 598.5 | 599.6 | 601.3 | 603.0 | 604.6 | 606.3 | 607.3 |
| 120° | 649.8 | 651.1 | 651.7 | 652.3 | 653.0 | 653.6 | 655.3 | 657.0 | 658.6 | 660.3 | 661.2 |
| 122.5° | 703.0 | 704.2 | 705.0 | 705.9 | 706.7 | 707.6 | 708.6 | 709.7 | 710.7 | 711.8 | 712.4 |
| 125° | 753.1 | 754.4 | 755.3 | 756.1 | 756.9 | 757.8 | 758.2 | 758.6 | 759.0 | 759.5 | 759.9 |
| 127.5° | 802.4 | 803.8 | 804.8 | 805.9 | 806.9 | 808.0 | 808.6 | 809.2 | 809.9 | 810.5 | 810.6 |
| 130° | 847.9 | 849.1 | 850.0 | 850.8 | 851.7 | 852.5 | 853.3 | 854.2 | 855.0 | 855.9 | 856.1 |
| 132.5° | 891.4 | 892.6 | 893.2 | 893.9 | 894.5 | 895.1 | 896.0 | 896.8 | 897.7 | 898.5 | 898.6 |
| 135° | 934.3 | 935.3 | 936.2 | 937.0 | 937.9 | 938.7 | 939.3 | 940.0 | 940.6 | 941.2 | 941.2 |
| 137.5° | 973.8 | 974.9 | 975.3 | 975.7 | 976.2 | 976.6 | 977.6 | 978.7 | 979.7 | 980.8 | 981.1 |
| 140° | 1010.1 | 1011.0 | 1011.6 | 1012.3 | 1012.9 | 1013.5 | 1014.4 | 1015.2 | 1016.1 | 1016.9 | 1017.1 |
| 142.5° | 1045.1 | 1046.0 | 1046.7 | 1047.3 | 1047.9 | 1048.6 | 1049.2 | 1049.8 | 1050.5 | 1051.1 | 1051.1 |
| 145° | 1078.1 | 1079.1 | 1079.5 | 1079.9 | 1080.4 | 1080.8 | 1081.2 | 1081.6 | 1082.0 | 1082.5 | 1082.7 |
| 147.5° | 1107.7 | 1108.5 | 1108.9 | 1109.3 | 1109.7 | 1110.1 | 1110.6 | 1111.0 | 1111.4 | 1111.8 | 1111.5 |
| 150° | 1134.5 | 1135.0 | 1135.4 | 1135.8 | 1136.2 | 1136.7 | 1137.1 | 1137.5 | 1137.9 | 1138.3 | 1138.2 |
| 152.5° | 1158.3 | 1158.6 | 1158.8 | 1159.0 | 1159.2 | 1159.4 | 1160.2 | 1161.1 | 1161.9 | 1162.8 | 1162.7 |
| 155° | 1179.5 | 1179.4 | 1179.6 | 1179.8 | 1180.0 | 1180.2 | 1181.3 | 1182.3 | 1183.4 | 1184.4 | 1184.3 |
| 157.5° | 1200.1 | 1200.0 | 1199.8 | 1199.6 | 1199.4 | 1199.2 | 1200.4 | 1201.7 | 1203.0 | 1204.2 | 1204.0 |
| 160° | 1216.3 | 1216.1 | 1215.9 | 1215.7 | 1215.5 | 1215.3 | 1216.5 | 1217.8 | 1219.1 | 1220.3 | 1220.2 |
| 162.5° | 1230.8 | 1230.3 | 1230.1 | 1229.9 | 1229.7 | 1229.5 | 1231.0 | 1232.4 | 1233.9 | 1235.4 | 1235.5 |
| 165° | 1243.1 | 1242.6 | 1242.4 | 1242.2 | 1242.0 | 1241.8 | 1243.5 | 1245.2 | 1246.9 | 1248.5 | 1248.6 |
| 167.5° | 1252.6 | 1252.2 | 1252.2 | 1252.2 | 1252.2 | 1252.2 | 1253.9 | 1255.6 | 1257.3 | 1259.0 | 1259.0 |
| 170° | 1261.2 | 1260.8 | 1260.8 | 1260.8 | 1260.8 | 1260.8 | 1262.4 | 1264.1 | 1265.8 | 1267.5 | 1267.5 |
| 172.5° | 1266.0 | 1265.6 | 1265.8 | 1266.0 | 1266.2 | 1266.4 | 1268.1 | 1269.8 | 1271.5 | 1273.2 | 1273.1 |
| 175° | 1270.8 | 1270.3 | 1270.5 | 1270.8 | 1271.0 | 1271.2 | 1272.6 | 1274.1 | 1275.6 | 1277.1 | 1277.0 |
| 177.5° | 1272.6 | 1272.2 | 1272.4 | 1272.6 | 1272.9 | 1273.1 | 1274.7 | 1276.4 | 1278.1 | 1279.8 | 1279.6 |
| 180° | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 0° | 1316.0 | 1316.0 | 1316.0 | 1316.0 |
| 2.5° | 1169.7 | 1167.6 | 1159.0 | 1150.5 |
| 5° | 991.7 | 984.4 | 982.0 | 979.5 |
| 7.5° | 866.5 | 865.9 | 853.1 | 840.3 |
| 10° | 756.3 | 757.2 | 745.6 | 734.0 |
| 12.5° | 677.5 | 669.9 | 669.0 | 668.1 |
| 15° | 618.3 | 611.3 | 610.1 | 608.8 |
| 17.5° | 576.5 | 572.2 | 571.0 | 569.8 |
| 20° | 544.7 | 542.3 | 540.1 | 538.0 |
| 22.5° | 517.2 | 514.2 | 512.4 | 510.5 |
| 25° | 490.7 | 487.9 | 487.3 | 486.7 |
| 27.5° | 466.9 | 463.5 | 463.5 | 463.5 |
| 30° | 444.3 | 442.1 | 441.2 | 440.3 |
| 32.5° | 423.2 | 421.4 | 421.4 | 421.4 |
| 35° | 403.3 | 402.4 | 401.2 | 400.0 |
| 37.5° | 385.3 | 385.3 | 384.7 | 384.1 |
| 40° | 367.9 | 368.8 | 368.8 | 368.8 |
| 42.5° | 352.1 | 353.0 | 353.0 | 353.0 |
| 45° | 335.6 | 337.1 | 337.7 | 338.3 |
| 47.5° | 319.4 | 321.8 | 322.4 | 323.0 |
| 50° | 303.5 | 305.3 | 305.6 | 305.9 |
| 52.5° | 287.3 | 289.5 | 291.0 | 292.5 |
| 55° | 270.2 | 272.4 | 273.3 | 274.2 |
| 57.5° | 251.9 | 254.0 | 254.3 | 254.6 |
| 60° | 231.7 | 233.9 | 234.5 | 235.1 |
| 62.5° | 212.5 | 213.7 | 214.3 | 215.0 |
| 65° | 190.5 | 192.4 | 193.6 | 194.8 |
| 67.5° | 169.5 | 171.0 | 171.0 | 171.0 |
| 70° | 145.9 | 146.6 | 147.5 | 148.4 |
| 72.5° | 124.3 | 124.6 | 124.6 | 124.6 |
| 75° | 101.4 | 102.0 | 102.3 | 102.6 |
| 77.5° | 79.7 | 80.0 | 80.0 | 80.0 |
| 80° | 58.3 | 58.0 | 58.0 | 58.0 |
| 82.5° | 40.0 | 39.1 | 39.1 | 39.1 |
| 85° | 22.9 | 22.6 | 22.9 | 23.2 |
| 87.5° | 10.4 | 10.4 | 10.4 | 10.4 |
| 90° | 27.2 | 27.6 | 28.0 | 28.4 |
| 92.5° | 31.6 | 31.8 | 32.0 | 32.2 |
| 95° | 36.0 | 36.0 | 36.0 | 36.0 |
| 97.5° | 38.2 | 38.4 | 38.6 | 38.8 |
| 100° | 39.2 | 39.4 | 39.6 | 39.8 |
| 102.5° | 39.5 | 39.9 | 40.3 | 40.7 |
| 105° | 40.4 | 40.8 | 41.3 | 41.7 |
| 107.5° | 181.2 | 153.7 | 126.1 | 98.5 |
| 110° | 350.8 | 320.7 | 290.6 | 260.5 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|
| 112.5° | 494.8 | 494.3 | 493.9 | 493.5 |
| 115° | 554.4 | 555.3 | 556.1 | 557.0 |
| 117.5° | 607.5 | 607.7 | 607.9 | 608.1 |
| 120° | 661.2 | 661.2 | 661.2 | 661.2 |
| 122.5° | 712.6 | 712.8 | 713.0 | 713.3 |
| 125° | 760.3 | 760.7 | 761.1 | 761.6 |
| 127.5° | 810.2 | 809.8 | 809.3 | 808.9 |
| 130° | 855.7 | 855.2 | 854.8 | 854.4 |
| 132.5° | 898.0 | 897.3 | 896.7 | 896.1 |
| 135° | 940.6 | 940.0 | 939.3 | 938.7 |
| 137.5° | 980.7 | 980.3 | 979.8 | 979.4 |
| 140° | 1016.7 | 1016.3 | 1015.8 | 1015.4 |
| 142.5° | 1050.5 | 1049.8 | 1049.2 | 1048.6 |
| 145° | 1082.7 | 1082.7 | 1082.7 | 1082.7 |
| 147.5° | 1110.5 | 1109.4 | 1108.4 | 1107.3 |
| 150° | 1137.6 | 1137.0 | 1136.4 | 1135.7 |
| 152.5° | 1161.6 | 1160.6 | 1159.5 | 1158.5 |
| 155° | 1183.1 | 1181.8 | 1180.6 | 1179.3 |
| 157.5° | 1202.3 | 1200.7 | 1199.0 | 1197.3 |
| 160° | 1218.8 | 1217.3 | 1215.8 | 1214.3 |
| 162.5° | 1234.2 | 1233.0 | 1231.7 | 1230.4 |
| 165° | 1247.2 | 1245.7 | 1244.2 | 1242.8 |
| 167.5° | 1257.3 | 1255.6 | 1253.9 | 1252.2 |
| 170° | 1265.8 | 1264.1 | 1262.4 | 1260.8 |
| 172.5° | 1271.2 | 1269.3 | 1267.4 | 1265.5 |
| 175° | 1275.3 | 1273.6 | 1271.9 | 1270.2 |
| 177.5° | 1277.5 | 1275.4 | 1273.3 | 1271.2 |
| 180° | 1275.0 | 1275.0 | 1275.0 | 1275.0 |



TEST NUMBER: P831492

CATALOG NUMBER: S123DIP-S560D1195U930-4F0-1E-UDD-G

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 | 11.22 | 11.94 | 12.30 | 13.02 | 14.49 | 13.46 | 14.18 | 14.54 | 15.25 | 16.72 |
| | 3H | 12.86 | 13.50 | 13.95 | 14.59 | 16.07 | 14.87 | 15.52 | 15.96 | 16.60 | 18.09 |
| | 4H | 13.43 | 14.04 | 14.53 | 15.13 | 16.62 | 15.32 | 15.93 | 16.42 | 17.01 | 18.51 |
| | 6H | 13.79 | 14.35 | 14.90 | 15.44 | 16.95 | 15.58 | 16.15 | 16.69 | 17.24 | 18.74 |
| | 8H | 13.89 | 14.42 | 15.00 | 15.52 | 17.02 | 15.64 | 16.18 | 16.76 | 17.28 | 18.78 |
| | 12H | 13.93 | 14.43 | 15.04 | 15.53 | 17.05 | 15.66 | 16.16 | 16.77 | 17.26 | 18.79 |
| 4H | 2H | 11.78 | 12.39 | 12.89 | 13.48 | 14.97 | 13.60 | 14.22 | 14.71 | 15.30 | 16.80 |
| | 3H | 13.60 | 14.11 | 14.71 | 15.22 | 16.72 | 15.21 | 15.72 | 16.32 | 16.83 | 18.34 |
| | 4H | 14.29 | 14.76 | 15.41 | 15.86 | 17.39 | 15.79 | 16.26 | 16.91 | 17.36 | 18.89 |
| | 6H | 14.76 | 15.16 | 15.88 | 16.28 | 17.80 | 16.19 | 16.59 | 17.31 | 17.71 | 19.23 |
| | 8H | 14.89 | 15.26 | 16.01 | 16.38 | 17.92 | 16.30 | 16.67 | 17.42 | 17.79 | 19.32 |
| | 12H | 14.95 | 15.29 | 16.09 | 16.42 | 17.96 | 16.33 | 16.67 | 17.47 | 17.80 | 19.34 |
| 8H | 4H | 14.54 | 14.92 | 15.67 | 16.04 | 17.57 | 15.88 | 16.26 | 17.01 | 17.38 | 18.91 |
| | 6H | 15.13 | 15.44 | 16.27 | 16.60 | 18.13 | 16.38 | 16.69 | 17.53 | 17.85 | 19.38 |
| | 8H | 15.34 | 15.60 | 16.49 | 16.74 | 18.30 | 16.56 | 16.83 | 17.71 | 17.97 | 19.52 |
| | 12H | 15.45 | 15.69 | 16.61 | 16.83 | 18.41 | 16.66 | 16.89 | 17.81 | 18.03 | 19.62 |
| 12H | 4H | 14.54 | 14.88 | 15.68 | 16.01 | 17.55 | 15.85 | 16.19 | 16.99 | 17.32 | 18.86 |
| | 6H | 15.18 | 15.45 | 16.33 | 16.59 | 18.14 | 16.40 | 16.66 | 17.55 | 17.80 | 19.36 |
| | 8H | 15.41 | 15.64 | 16.56 | 16.78 | 18.37 | 16.59 | 16.82 | 17.74 | 17.96 | 19.55 |