

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: P831656

Luminaire Tested: S123DIP-S775D365U930-4F0-1E-UDD-G4

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831656
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-S775D365U930-4F0-1E-UDD-G4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: -

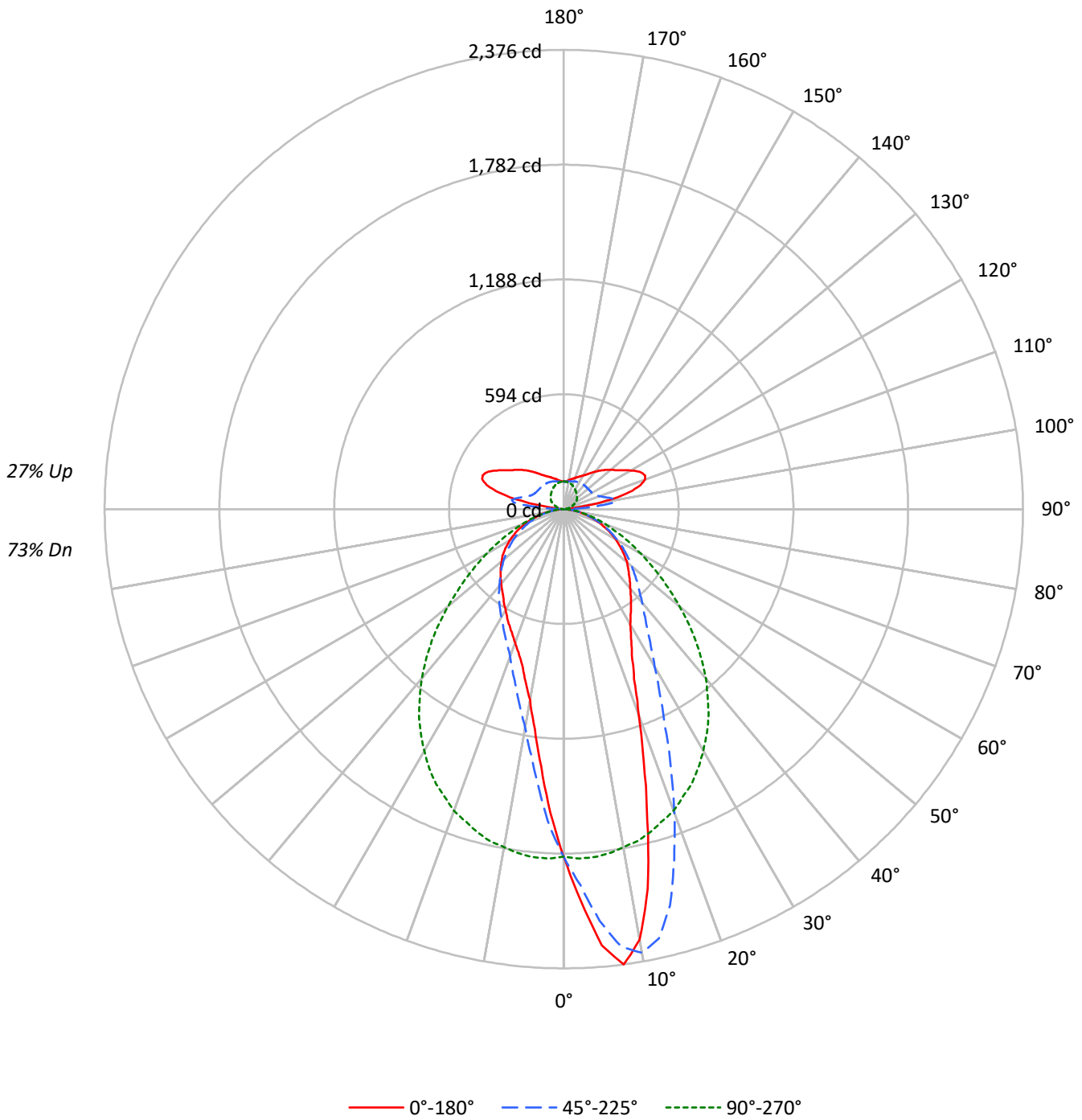
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3963.1 lumens
Efficiency: N/A
Efficacy: 110.4 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): 35.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P831656
CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

Luminous Intensity Polar Plot





TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

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 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 77 | 77 | 77 | 77 | 77 | 77 | 73 | |
| 1 | 104 | 99 | 96 | 92 | 98 | 95 | 91 | 88 | 86 | 83 | 81 | 77 | 75 | 73 | 69 | 68 | 67 | 67 | 67 | 67 | 63 | |
| 2 | 95 | 88 | 82 | 77 | 90 | 84 | 78 | 74 | 76 | 72 | 68 | 69 | 66 | 63 | 62 | 60 | 57 | 57 | 57 | 57 | 54 | |
| 3 | 87 | 78 | 71 | 65 | 83 | 75 | 68 | 63 | 68 | 63 | 58 | 62 | 58 | 54 | 56 | 53 | 50 | 50 | 50 | 50 | 47 | |
| 4 | 81 | 70 | 62 | 56 | 76 | 67 | 60 | 54 | 61 | 55 | 51 | 56 | 51 | 47 | 51 | 47 | 44 | 44 | 44 | 44 | 41 | |
| 5 | 74 | 63 | 55 | 49 | 71 | 60 | 53 | 48 | 55 | 49 | 45 | 51 | 46 | 42 | 46 | 42 | 39 | 39 | 39 | 39 | 36 | |
| 6 | 69 | 57 | 49 | 43 | 66 | 55 | 48 | 42 | 50 | 44 | 40 | 46 | 41 | 37 | 42 | 38 | 35 | 35 | 35 | 35 | 33 | |
| 7 | 64 | 52 | 44 | 39 | 61 | 50 | 43 | 38 | 46 | 40 | 36 | 43 | 38 | 34 | 39 | 35 | 32 | 32 | 32 | 32 | 29 | |
| 8 | 60 | 48 | 40 | 35 | 57 | 46 | 39 | 34 | 43 | 37 | 32 | 39 | 34 | 31 | 36 | 32 | 29 | 29 | 29 | 29 | 27 | |
| 9 | 56 | 44 | 37 | 32 | 54 | 43 | 36 | 31 | 40 | 34 | 29 | 37 | 32 | 28 | 34 | 30 | 27 | 27 | 27 | 27 | 25 | |
| 10 | 53 | 41 | 34 | 29 | 50 | 40 | 33 | 28 | 37 | 31 | 27 | 34 | 29 | 26 | 32 | 27 | 24 | 24 | 24 | 24 | 23 | |

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 | 4.3 |
| 10°-20° | 423.1 | 10.7 |
| 20°-30° | 500.9 | 12.6 |
| 30°-40° | 503.7 | 12.7 |
| 40°-50° | 462.1 | 11.7 |
| 50°-60° | 381.4 | 9.6 |
| 60°-70° | 269.8 | 6.8 |
| 70°-80° | 144.0 | 3.6 |
| 80°-90° | 37.3 | 0.9 |
| 90°-100° | 77.2 | 1.9 |
| 100°-110° | 226.1 | 5.7 |
| 110°-120° | 220.8 | 5.6 |
| 120°-130° | 175.9 | 4.4 |
| 130°-140° | 138.7 | 3.5 |
| 140°-150° | 103.5 | 2.6 |
| 150°-160° | 72.2 | 1.8 |
| 160°-170° | 42.4 | 1.1 |
| 170°-180° | 13.8 | 0.3 |
| 0°-30° | 1094.1 | 27.6 |
| 0°-40° | 1597.8 | 40.3 |
| 0°-60° | 2441.3 | 61.6 |
| 0°-90° | 2892.5 | 73.0 |
| 90°-120° | 524.2 | 13.2 |
| 90°-150° | 942.3 | 23.8 |
| 90°-180° | 1071.0 | 27.0 |
| 0°-180° | 3963.1 | 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° | 8 | 7 | 1 | 7 | 8 | 6 |
| 95° | 33 | 171 | 10 | 171 | 33 | 54 |
| 105° | 366 | 232 | 33 | 232 | 366 | 366 |
| 115° | 446 | 177 | 59 | 177 | 446 | 435 |
| 125° | 352 | 165 | 82 | 165 | 352 | 318 |
| 135° | 285 | 163 | 96 | 163 | 285 | 221 |
| 145° | 223 | 161 | 110 | 161 | 223 | 141 |
| 155° | 185 | 156 | 125 | 156 | 185 | 86 |
| 165° | 161 | 149 | 136 | 149 | 161 | 46 |
| 175° | 145 | 143 | 142 | 143 | 145 | 14 |
| 180° | 142 | 142 | 142 | 142 | 142 | |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

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° | 8.4 | 8.6 | 8.4 | 8.1 | 8.4 | 7.8 | 7.5 | 7.2 | 6.9 | 7.2 | 6.3 |
| 92.5° | 15.3 | 15.8 | 15.6 | 16.7 | 17.3 | 19.3 | 22.2 | 28.5 | 40.0 | 53.6 | 59.4 |
| 95° | 33.4 | 34.6 | 36.6 | 39.2 | 44.7 | 55.0 | 70.3 | 103.7 | 138.6 | 170.8 | 152.1 |
| 97.5° | 68.6 | 71.7 | 78.7 | 89.6 | 108.9 | 141.8 | 179.8 | 238.3 | 271.7 | 262.8 | 196.2 |
| 100° | 180.6 | 180.4 | 191.6 | 212.6 | 241.7 | 282.6 | 316.3 | 339.7 | 329.6 | 272.8 | 184.4 |
| 102.5° | 286.1 | 294.4 | 303.4 | 318.9 | 340.0 | 362.2 | 378.3 | 373.4 | 332.5 | 254.1 | 167.1 |
| 105° | 366.5 | 367.9 | 377.1 | 388.1 | 401.3 | 408.8 | 403.4 | 374.5 | 314.3 | 231.6 | 153.6 |
| 107.5° | 418.9 | 422.1 | 425.8 | 431.0 | 432.7 | 425.0 | 402.5 | 357.3 | 288.4 | 211.8 | 143.8 |
| 110° | 448.9 | 449.5 | 450.0 | 447.7 | 439.7 | 419.5 | 383.2 | 330.2 | 264.2 | 195.3 | 138.6 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 454.9 | 454.6 | 451.8 | 443.4 | 427.0 | 399.6 | 357.8 | 303.4 | 243.2 | 184.4 | 135.7 |
| 115° | 445.7 | 444.3 | 438.5 | 425.8 | 404.2 | 372.8 | 330.5 | 280.3 | 227.0 | 177.2 | 135.4 |
| 117.5° | 425.5 | 423.5 | 414.9 | 400.8 | 378.3 | 345.7 | 306.8 | 262.5 | 216.4 | 172.3 | 135.7 |
| 120° | 399.0 | 397.3 | 390.4 | 374.3 | 351.5 | 322.4 | 287.8 | 248.9 | 208.3 | 169.1 | 136.9 |
| 122.5° | 374.3 | 372.0 | 364.2 | 350.1 | 330.5 | 304.0 | 272.6 | 238.3 | 201.7 | 167.1 | 138.9 |
| 125° | 351.5 | 349.5 | 342.3 | 329.6 | 311.2 | 288.1 | 260.5 | 229.0 | 196.2 | 165.4 | 140.9 |
| 127.5° | 331.9 | 330.2 | 323.5 | 312.6 | 295.9 | 274.6 | 249.2 | 220.7 | 191.0 | 164.5 | 143.2 |
| 130° | 315.8 | 313.5 | 307.4 | 297.0 | 281.8 | 262.2 | 238.8 | 212.9 | 187.0 | 163.6 | 145.5 |
| 132.5° | 299.9 | 298.5 | 293.3 | 282.9 | 268.8 | 250.4 | 229.0 | 205.7 | 183.2 | 163.4 | 147.2 |
| 135° | 284.9 | 282.9 | 277.7 | 269.1 | 255.0 | 238.6 | 219.8 | 199.4 | 180.1 | 163.1 | 149.0 |
| 137.5° | 269.1 | 267.4 | 263.0 | 254.1 | 242.0 | 227.3 | 210.6 | 193.3 | 177.2 | 162.5 | 150.1 |
| 140° | 252.4 | 252.7 | 248.1 | 240.0 | 229.0 | 216.7 | 202.8 | 188.1 | 174.6 | 162.2 | 151.3 |
| 142.5° | 236.8 | 237.1 | 233.1 | 226.2 | 217.2 | 206.9 | 195.3 | 183.2 | 172.3 | 161.6 | 152.1 |
| 145° | 222.7 | 222.1 | 219.8 | 213.8 | 206.6 | 198.2 | 189.0 | 179.5 | 170.3 | 161.1 | 152.4 |
| 147.5° | 210.6 | 210.3 | 208.0 | 203.7 | 197.9 | 191.9 | 184.1 | 176.3 | 168.3 | 160.2 | 152.4 |
| 150° | 200.2 | 200.2 | 198.5 | 195.3 | 191.0 | 185.5 | 179.5 | 172.9 | 166.2 | 159.0 | 152.4 |
| 152.5° | 191.6 | 191.6 | 190.7 | 187.8 | 184.7 | 180.4 | 175.2 | 169.7 | 163.9 | 157.6 | 151.5 |
| 155° | 184.7 | 184.4 | 183.8 | 181.5 | 178.9 | 175.5 | 171.1 | 166.5 | 161.6 | 155.9 | 151.0 |
| 157.5° | 178.1 | 178.1 | 177.5 | 175.7 | 173.4 | 170.6 | 167.1 | 163.1 | 159.0 | 154.4 | 150.1 |
| 160° | 171.7 | 172.0 | 172.0 | 170.3 | 168.3 | 166.2 | 163.4 | 160.2 | 156.4 | 152.7 | 149.5 |
| 162.5° | 166.0 | 166.2 | 166.2 | 164.8 | 163.6 | 161.9 | 159.3 | 156.7 | 153.9 | 151.0 | 148.4 |
| 165° | 161.1 | 161.1 | 161.3 | 160.2 | 159.0 | 157.6 | 155.6 | 153.9 | 151.5 | 149.2 | 147.2 |
| 167.5° | 156.2 | 156.2 | 156.4 | 155.6 | 155.0 | 153.9 | 152.7 | 151.3 | 149.2 | 147.5 | 146.1 |
| 170° | 151.8 | 151.8 | 152.1 | 151.5 | 151.3 | 150.7 | 149.5 | 148.7 | 147.2 | 145.8 | 144.9 |
| 172.5° | 147.8 | 148.1 | 148.7 | 148.1 | 148.1 | 147.8 | 146.9 | 146.4 | 145.2 | 144.3 | 144.1 |
| 175° | 144.9 | 145.2 | 145.5 | 145.2 | 145.2 | 145.2 | 144.6 | 144.3 | 143.8 | 143.2 | 143.2 |
| 177.5° | 142.9 | 142.9 | 143.5 | 143.2 | 143.5 | 143.5 | 143.2 | 142.9 | 142.6 | 142.3 | 142.6 |
| 180° | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-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° | 5.5 | 4.6 | 3.7 | 3.2 | 2.6 | 1.7 | 1.2 | 0.6 | 1.2 | 1.7 | 2.6 |
| 92.5° | 44.4 | 29.1 | 19.9 | 14.7 | 11.8 | 9.2 | 6.3 | 4.3 | 6.3 | 9.2 | 11.8 |
| 95° | 104.9 | 61.9 | 37.5 | 26.2 | 18.7 | 13.8 | 10.7 | 9.8 | 10.7 | 13.8 | 18.7 |
| 97.5° | 116.7 | 66.8 | 42.6 | 30.3 | 22.8 | 18.4 | 15.8 | 15.6 | 15.8 | 18.4 | 22.8 |
| 100° | 108.6 | 66.0 | 45.8 | 34.6 | 27.7 | 23.6 | 21.6 | 21.3 | 21.6 | 23.6 | 27.7 |
| 102.5° | 101.7 | 67.1 | 49.6 | 39.5 | 33.4 | 29.7 | 27.9 | 27.4 | 27.9 | 29.7 | 33.4 |
| 105° | 99.1 | 69.4 | 53.9 | 44.9 | 39.5 | 36.0 | 34.3 | 33.4 | 34.3 | 36.0 | 39.5 |
| 107.5° | 98.5 | 73.2 | 59.4 | 51.0 | 45.8 | 42.4 | 40.6 | 39.8 | 40.6 | 42.4 | 45.8 |
| 110° | 100.0 | 78.1 | 65.1 | 57.0 | 52.1 | 49.0 | 47.5 | 46.7 | 47.5 | 49.0 | 52.1 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 102.9 | 83.0 | 71.2 | 63.4 | 58.5 | 55.3 | 53.9 | 53.0 | 53.9 | 55.3 | 58.5 |
| 115° | 106.0 | 88.5 | 77.5 | 69.7 | 64.8 | 61.9 | 60.2 | 59.1 | 60.2 | 61.9 | 64.8 |
| 117.5° | 110.1 | 94.2 | 83.3 | 76.1 | 70.6 | 68.0 | 66.6 | 65.1 | 66.6 | 68.0 | 70.6 |
| 120° | 114.7 | 99.7 | 89.3 | 82.1 | 76.6 | 73.8 | 72.3 | 71.5 | 72.3 | 73.8 | 76.6 |
| 122.5° | 119.0 | 105.4 | 95.4 | 87.6 | 82.4 | 79.2 | 77.8 | 76.9 | 77.8 | 79.2 | 82.4 |
| 125° | 123.6 | 110.9 | 100.8 | 93.1 | 87.6 | 84.4 | 82.7 | 82.1 | 82.7 | 84.4 | 87.6 |
| 127.5° | 127.3 | 115.8 | 106.0 | 98.2 | 92.2 | 89.0 | 87.0 | 86.1 | 87.0 | 89.0 | 92.2 |
| 130° | 131.1 | 120.1 | 110.6 | 102.9 | 96.8 | 93.3 | 90.8 | 89.9 | 90.8 | 93.3 | 96.8 |
| 132.5° | 134.5 | 123.9 | 114.7 | 107.2 | 101.1 | 96.8 | 93.9 | 92.8 | 93.9 | 96.8 | 101.1 |
| 135° | 137.4 | 127.6 | 118.7 | 110.9 | 104.9 | 100.6 | 97.4 | 96.2 | 97.4 | 100.6 | 104.9 |
| 137.5° | 139.7 | 130.2 | 121.6 | 114.4 | 108.3 | 103.7 | 100.6 | 99.4 | 100.6 | 103.7 | 108.3 |
| 140° | 141.5 | 132.8 | 124.5 | 117.3 | 111.5 | 106.9 | 104.0 | 102.6 | 104.0 | 106.9 | 111.5 |
| 142.5° | 143.2 | 134.8 | 126.8 | 120.1 | 114.4 | 110.3 | 107.2 | 106.0 | 107.2 | 110.3 | 114.4 |
| 145° | 144.3 | 136.6 | 129.1 | 122.4 | 117.5 | 113.2 | 110.6 | 109.8 | 110.6 | 113.2 | 117.5 |
| 147.5° | 145.2 | 138.0 | 131.1 | 125.3 | 120.4 | 116.7 | 114.1 | 113.5 | 114.1 | 116.7 | 120.4 |
| 150° | 145.5 | 139.4 | 132.8 | 127.6 | 123.6 | 119.9 | 117.5 | 117.3 | 117.5 | 119.9 | 123.6 |
| 152.5° | 146.1 | 140.3 | 134.8 | 129.9 | 126.5 | 123.3 | 121.0 | 121.0 | 121.0 | 123.3 | 126.5 |
| 155° | 146.1 | 141.5 | 136.6 | 132.5 | 129.4 | 126.5 | 124.8 | 124.8 | 124.8 | 126.5 | 129.4 |
| 157.5° | 146.4 | 142.0 | 138.0 | 134.8 | 132.0 | 129.4 | 127.9 | 127.6 | 127.9 | 129.4 | 132.0 |
| 160° | 146.4 | 142.9 | 139.4 | 136.6 | 134.5 | 132.2 | 131.1 | 131.1 | 131.1 | 132.2 | 134.5 |
| 162.5° | 146.1 | 143.2 | 140.3 | 138.0 | 136.3 | 134.5 | 133.7 | 133.7 | 133.7 | 134.5 | 136.3 |
| 165° | 145.5 | 143.5 | 141.2 | 139.2 | 138.0 | 136.6 | 136.0 | 136.3 | 136.0 | 136.6 | 138.0 |
| 167.5° | 145.2 | 143.5 | 141.8 | 140.3 | 139.4 | 138.3 | 138.0 | 138.3 | 138.0 | 138.3 | 139.4 |
| 170° | 144.3 | 143.2 | 141.8 | 141.2 | 140.6 | 139.7 | 139.4 | 140.0 | 139.4 | 139.7 | 140.6 |
| 172.5° | 144.1 | 143.2 | 142.0 | 141.8 | 141.5 | 140.9 | 140.9 | 141.2 | 140.9 | 140.9 | 141.5 |
| 175° | 143.5 | 142.9 | 142.3 | 142.0 | 142.0 | 141.5 | 141.8 | 142.0 | 141.8 | 141.5 | 142.0 |
| 177.5° | 143.2 | 142.6 | 142.3 | 142.3 | 142.3 | 142.0 | 142.3 | 142.6 | 142.3 | 142.0 | 142.3 |
| 180° | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-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° | 3.2 | 3.7 | 4.6 | 5.5 | 6.3 | 7.2 | 6.9 | 7.2 | 7.5 | 7.8 | 8.4 |
| 92.5° | 14.7 | 19.9 | 29.1 | 44.4 | 59.4 | 53.6 | 40.0 | 28.5 | 22.2 | 19.3 | 17.3 |
| 95° | 26.2 | 37.5 | 61.9 | 104.9 | 152.1 | 170.8 | 138.6 | 103.7 | 70.3 | 55.0 | 44.7 |
| 97.5° | 30.3 | 42.6 | 66.8 | 116.7 | 196.2 | 262.8 | 271.7 | 238.3 | 179.8 | 141.8 | 108.9 |
| 100° | 34.6 | 45.8 | 66.0 | 108.6 | 184.4 | 272.8 | 329.6 | 339.7 | 316.3 | 282.6 | 241.7 |
| 102.5° | 39.5 | 49.6 | 67.1 | 101.7 | 167.1 | 254.1 | 332.5 | 373.4 | 378.3 | 362.2 | 340.0 |
| 105° | 44.9 | 53.9 | 69.4 | 99.1 | 153.6 | 231.6 | 314.3 | 374.5 | 403.4 | 408.8 | 401.3 |
| 107.5° | 51.0 | 59.4 | 73.2 | 98.5 | 143.8 | 211.8 | 288.4 | 357.3 | 402.5 | 425.0 | 432.7 |
| 110° | 57.0 | 65.1 | 78.1 | 100.0 | 138.6 | 195.3 | 264.2 | 330.2 | 383.2 | 419.5 | 439.7 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 63.4 | 71.2 | 83.0 | 102.9 | 135.7 | 184.4 | 243.2 | 303.4 | 357.8 | 399.6 | 427.0 |
| 115° | 69.7 | 77.5 | 88.5 | 106.0 | 135.4 | 177.2 | 227.0 | 280.3 | 330.5 | 372.8 | 404.2 |
| 117.5° | 76.1 | 83.3 | 94.2 | 110.1 | 135.7 | 172.3 | 216.4 | 262.5 | 306.8 | 345.7 | 378.3 |
| 120° | 82.1 | 89.3 | 99.7 | 114.7 | 136.9 | 169.1 | 208.3 | 248.9 | 287.8 | 322.4 | 351.5 |
| 122.5° | 87.6 | 95.4 | 105.4 | 119.0 | 138.9 | 167.1 | 201.7 | 238.3 | 272.6 | 304.0 | 330.5 |
| 125° | 93.1 | 100.8 | 110.9 | 123.6 | 140.9 | 165.4 | 196.2 | 229.0 | 260.5 | 288.1 | 311.2 |
| 127.5° | 98.2 | 106.0 | 115.8 | 127.3 | 143.2 | 164.5 | 191.0 | 220.7 | 249.2 | 274.6 | 295.9 |
| 130° | 102.9 | 110.6 | 120.1 | 131.1 | 145.5 | 163.6 | 187.0 | 212.9 | 238.8 | 262.2 | 281.8 |
| 132.5° | 107.2 | 114.7 | 123.9 | 134.5 | 147.2 | 163.4 | 183.2 | 205.7 | 229.0 | 250.4 | 268.8 |
| 135° | 110.9 | 118.7 | 127.6 | 137.4 | 149.0 | 163.1 | 180.1 | 199.4 | 219.8 | 238.6 | 255.0 |
| 137.5° | 114.4 | 121.6 | 130.2 | 139.7 | 150.1 | 162.5 | 177.2 | 193.3 | 210.6 | 227.3 | 242.0 |
| 140° | 117.3 | 124.5 | 132.8 | 141.5 | 151.3 | 162.2 | 174.6 | 188.1 | 202.8 | 216.7 | 229.0 |
| 142.5° | 120.1 | 126.8 | 134.8 | 143.2 | 152.1 | 161.6 | 172.3 | 183.2 | 195.3 | 206.9 | 217.2 |
| 145° | 122.4 | 129.1 | 136.6 | 144.3 | 152.4 | 161.1 | 170.3 | 179.5 | 189.0 | 198.2 | 206.6 |
| 147.5° | 125.3 | 131.1 | 138.0 | 145.2 | 152.4 | 160.2 | 168.3 | 176.3 | 184.1 | 191.9 | 197.9 |
| 150° | 127.6 | 132.8 | 139.4 | 145.5 | 152.4 | 159.0 | 166.2 | 172.9 | 179.5 | 185.5 | 191.0 |
| 152.5° | 129.9 | 134.8 | 140.3 | 146.1 | 151.5 | 157.6 | 163.9 | 169.7 | 175.2 | 180.4 | 184.7 |
| 155° | 132.5 | 136.6 | 141.5 | 146.1 | 151.0 | 155.9 | 161.6 | 166.5 | 171.1 | 175.5 | 178.9 |
| 157.5° | 134.8 | 138.0 | 142.0 | 146.4 | 150.1 | 154.4 | 159.0 | 163.1 | 167.1 | 170.6 | 173.4 |
| 160° | 136.6 | 139.4 | 142.9 | 146.4 | 149.5 | 152.7 | 156.4 | 160.2 | 163.4 | 166.2 | 168.3 |
| 162.5° | 138.0 | 140.3 | 143.2 | 146.1 | 148.4 | 151.0 | 153.9 | 156.7 | 159.3 | 161.9 | 163.6 |
| 165° | 139.2 | 141.2 | 143.5 | 145.5 | 147.2 | 149.2 | 151.5 | 153.9 | 155.6 | 157.6 | 159.0 |
| 167.5° | 140.3 | 141.8 | 143.5 | 145.2 | 146.1 | 147.5 | 149.2 | 151.3 | 152.7 | 153.9 | 155.0 |
| 170° | 141.2 | 141.8 | 143.2 | 144.3 | 144.9 | 145.8 | 147.2 | 148.7 | 149.5 | 150.7 | 151.3 |
| 172.5° | 141.8 | 142.0 | 143.2 | 144.1 | 144.1 | 144.3 | 145.2 | 146.4 | 146.9 | 147.8 | 148.1 |
| 175° | 142.0 | 142.3 | 142.9 | 143.5 | 143.2 | 143.2 | 143.8 | 144.3 | 144.6 | 145.2 | 145.2 |
| 177.5° | 142.3 | 142.3 | 142.6 | 143.2 | 142.6 | 142.3 | 142.6 | 142.9 | 143.2 | 143.5 | 143.5 |
| 180° | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 | 142.3 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-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° | 8.1 | 8.4 | 8.6 | 8.4 |
| 92.5° | 16.7 | 15.6 | 15.8 | 15.3 |
| 95° | 39.2 | 36.6 | 34.6 | 33.4 |
| 97.5° | 89.6 | 78.7 | 71.7 | 68.6 |
| 100° | 212.6 | 191.6 | 180.4 | 180.6 |
| 102.5° | 318.9 | 303.4 | 294.4 | 286.1 |
| 105° | 388.1 | 377.1 | 367.9 | 366.5 |
| 107.5° | 431.0 | 425.8 | 422.1 | 418.9 |
| 110° | 447.7 | 450.0 | 449.5 | 448.9 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 443.4 | 451.8 | 454.6 | 454.9 |
| 115° | 425.8 | 438.5 | 444.3 | 445.7 |
| 117.5° | 400.8 | 414.9 | 423.5 | 425.5 |
| 120° | 374.3 | 390.4 | 397.3 | 399.0 |
| 122.5° | 350.1 | 364.2 | 372.0 | 374.3 |
| 125° | 329.6 | 342.3 | 349.5 | 351.5 |
| 127.5° | 312.6 | 323.5 | 330.2 | 331.9 |
| 130° | 297.0 | 307.4 | 313.5 | 315.8 |
| 132.5° | 282.9 | 293.3 | 298.5 | 299.9 |
| 135° | 269.1 | 277.7 | 282.9 | 284.9 |
| 137.5° | 254.1 | 263.0 | 267.4 | 269.1 |
| 140° | 240.0 | 248.1 | 252.7 | 252.4 |
| 142.5° | 226.2 | 233.1 | 237.1 | 236.8 |
| 145° | 213.8 | 219.8 | 222.1 | 222.7 |
| 147.5° | 203.7 | 208.0 | 210.3 | 210.6 |
| 150° | 195.3 | 198.5 | 200.2 | 200.2 |
| 152.5° | 187.8 | 190.7 | 191.6 | 191.6 |
| 155° | 181.5 | 183.8 | 184.4 | 184.7 |
| 157.5° | 175.7 | 177.5 | 178.1 | 178.1 |
| 160° | 170.3 | 172.0 | 172.0 | 171.7 |
| 162.5° | 164.8 | 166.2 | 166.2 | 166.0 |
| 165° | 160.2 | 161.3 | 161.1 | 161.1 |
| 167.5° | 155.6 | 156.4 | 156.2 | 156.2 |
| 170° | 151.5 | 152.1 | 151.8 | 151.8 |
| 172.5° | 148.1 | 148.7 | 148.1 | 147.8 |
| 175° | 145.2 | 145.5 | 145.2 | 144.9 |
| 177.5° | 143.2 | 143.5 | 142.9 | 142.9 |
| 180° | 142.3 | 142.3 | 142.3 | 142.3 |



TEST NUMBER: P831656

CATALOG NUMBER: S123DIP-S775D365U930-4F0-1E-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 | 15.79 | 16.84 | 16.53 | 17.60 | 18.50 | 18.03 | 19.08 | 18.77 | 19.83 | 20.74 |
| | 3H | 17.45 | 18.40 | 18.20 | 19.16 | 20.10 | 19.47 | 20.41 | 20.22 | 21.17 | 22.11 |
| | 4H | 18.04 | 18.93 | 18.81 | 19.70 | 20.65 | 19.92 | 20.81 | 20.70 | 21.59 | 22.53 |
| | 6H | 18.42 | 19.24 | 19.20 | 20.02 | 20.98 | 20.21 | 21.03 | 20.99 | 21.81 | 22.77 |
| | 8H | 18.52 | 19.30 | 19.31 | 20.10 | 21.06 | 20.28 | 21.06 | 21.07 | 21.86 | 22.82 |
| | 12H | 18.57 | 19.31 | 19.37 | 20.11 | 21.10 | 20.30 | 21.05 | 21.10 | 21.84 | 22.83 |
| 4H | 2H | 16.39 | 17.28 | 17.16 | 18.05 | 19.00 | 18.21 | 19.10 | 18.99 | 19.88 | 20.82 |
| | 3H | 18.23 | 18.97 | 19.02 | 19.78 | 20.75 | 19.85 | 20.59 | 20.63 | 21.40 | 22.36 |
| | 4H | 18.94 | 19.61 | 19.74 | 20.42 | 21.41 | 20.44 | 21.11 | 21.24 | 21.92 | 22.91 |
| | 6H | 19.42 | 20.00 | 20.24 | 20.84 | 21.84 | 20.85 | 21.43 | 21.67 | 22.27 | 23.27 |
| | 8H | 19.56 | 20.11 | 20.39 | 20.93 | 21.94 | 20.97 | 21.51 | 21.79 | 22.34 | 23.35 |
| | 12H | 19.64 | 20.13 | 20.48 | 20.98 | 21.99 | 21.02 | 21.51 | 21.86 | 22.36 | 23.37 |
| 8H | 4H | 19.22 | 19.76 | 20.04 | 20.59 | 21.60 | 20.56 | 21.10 | 21.38 | 21.93 | 22.94 |
| | 6H | 19.81 | 20.26 | 20.66 | 21.13 | 22.14 | 21.07 | 21.52 | 21.92 | 22.39 | 23.40 |
| | 8H | 20.02 | 20.42 | 20.88 | 21.29 | 22.31 | 21.25 | 21.65 | 22.11 | 22.51 | 23.54 |
| | 12H | 20.15 | 20.50 | 21.02 | 21.36 | 22.44 | 21.36 | 21.71 | 22.22 | 22.57 | 23.65 |
| 12H | 4H | 19.23 | 19.71 | 20.07 | 20.56 | 21.58 | 20.54 | 21.03 | 21.38 | 21.88 | 22.89 |
| | 6H | 19.87 | 20.26 | 20.73 | 21.13 | 22.16 | 21.08 | 21.48 | 21.94 | 22.35 | 23.38 |
| | 8H | 20.11 | 20.46 | 20.97 | 21.32 | 22.40 | 21.29 | 21.64 | 22.15 | 22.50 | 23.58 |