

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: P832102

Luminaire Tested: S123RDIP-S340D365U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832102
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S340D365U927-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

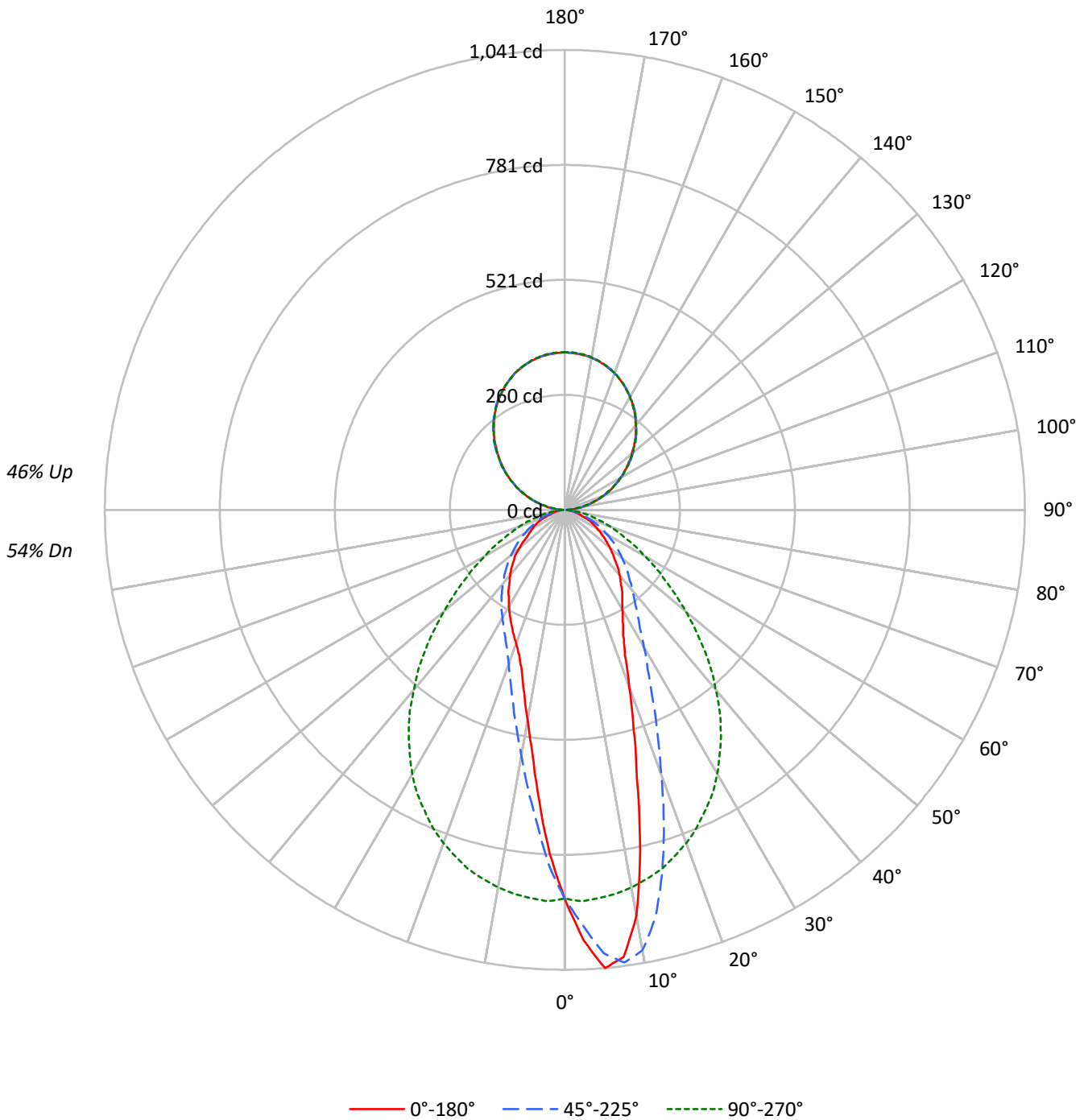
Lumens per Lamp: N/A
Luminaire Lumens: 2155.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 22.4
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: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

Luminous Intensity Polar Plot





TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---|
| RF | 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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 72 | 72 | 72 | 60 | 60 | 60 | 54 | 54 | 54 | 47 | 47 | 47 | 41 | | |
| 1 | 100 | 96 | 92 | 89 | 92 | 89 | 86 | 83 | 76 | 74 | 72 | 65 | 63 | 62 | 54 | 53 | 52 | 47 | 47 | 47 | 41 | 41 | 41 | 36 | | |
| 2 | 91 | 84 | 79 | 74 | 85 | 79 | 74 | 70 | 68 | 64 | 61 | 58 | 55 | 53 | 49 | 47 | 45 | 41 | 41 | 41 | 36 | 36 | 36 | 32 | | |
| 3 | 84 | 75 | 68 | 63 | 78 | 70 | 64 | 59 | 61 | 56 | 53 | 52 | 49 | 46 | 44 | 42 | 40 | 36 | 36 | 36 | 32 | 32 | 32 | 28 | | |
| 4 | 77 | 67 | 60 | 54 | 72 | 63 | 56 | 51 | 55 | 50 | 46 | 47 | 44 | 40 | 40 | 38 | 35 | 32 | 32 | 32 | 28 | 28 | 28 | 26 | | |
| 5 | 72 | 61 | 53 | 47 | 66 | 57 | 50 | 45 | 50 | 44 | 40 | 43 | 39 | 36 | 37 | 34 | 31 | 28 | 28 | 28 | 26 | 26 | 26 | 23 | | |
| 6 | 66 | 55 | 47 | 42 | 62 | 52 | 45 | 40 | 45 | 40 | 36 | 39 | 35 | 32 | 34 | 31 | 28 | 26 | 26 | 26 | 23 | 23 | 23 | 21 | | |
| 7 | 62 | 50 | 42 | 37 | 57 | 47 | 40 | 35 | 41 | 36 | 32 | 36 | 32 | 29 | 31 | 28 | 26 | 23 | 23 | 23 | 21 | 21 | 21 | 20 | | |
| 8 | 58 | 46 | 38 | 33 | 54 | 43 | 37 | 32 | 38 | 33 | 29 | 34 | 29 | 26 | 29 | 26 | 24 | 21 | 21 | 21 | 20 | 20 | 20 | 18 | | |
| 9 | 54 | 42 | 35 | 30 | 50 | 40 | 33 | 29 | 35 | 30 | 26 | 31 | 27 | 24 | 27 | 24 | 22 | 20 | 20 | 20 | 18 | 18 | 18 | 16 | | |
| 10 | 51 | 39 | 32 | 27 | 47 | 37 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 22 | 26 | 22 | 20 | 18 | 18 | 18 | 16 | 16 | 16 | 14 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 9473 | 9473 | 9473 | 9473 | 9473 |
| 5° | 11248 | 10889 | 9532 | 7706 | 7154 |
| 10° | 10191 | 11060 | 9485 | 6174 | 5297 |
| 15° | 7016 | 9483 | 9385 | 5046 | 4190 |
| 20° | 4881 | 7301 | 9196 | 4255 | 3683 |
| 25° | 3720 | 5564 | 8922 | 3782 | 3394 |
| 30° | 3238 | 4448 | 8580 | 3511 | 3143 |
| 35° | 2972 | 3753 | 8093 | 3284 | 2916 |
| 40° | 2712 | 3351 | 7458 | 3060 | 2708 |
| 45° | 2449 | 3064 | 6772 | 2848 | 2500 |
| 50° | 2224 | 2828 | 5963 | 2641 | 2242 |
| 55° | 2012 | 2597 | 5187 | 2438 | 1924 |
| 60° | 1802 | 2362 | 4506 | 2213 | 1817 |
| 65° | 1663 | 2096 | 3879 | 1989 | 1719 |
| 70° | 1350 | 1813 | 3383 | 1800 | 1397 |
| 75° | 1185 | 1439 | 2865 | 1493 | 1231 |
| 80° | 1072 | 1221 | 2349 | 1252 | 1165 |
| 85° | 976 | 1074 | 1778 | 1136 | 1074 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 7145 cd/sqm



TEST NUMBER: P832102

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.2 | 3.7 |
| 10°-20° | 185.6 | 8.6 |
| 20°-30° | 213.0 | 9.9 |
| 30°-40° | 209.9 | 9.7 |
| 40°-50° | 185.1 | 8.6 |
| 50°-60° | 142.4 | 6.6 |
| 60°-70° | 93.6 | 4.3 |
| 70°-80° | 45.5 | 2.1 |
| 80°-90° | 12.2 | 0.6 |
| 90°-100° | 22.9 | 1.1 |
| 100°-110° | 69.4 | 3.2 |
| 110°-120° | 118.2 | 5.5 |
| 120°-130° | 155.5 | 7.2 |
| 130°-140° | 174.8 | 8.1 |
| 140°-150° | 171.8 | 8.0 |
| 150°-160° | 144.7 | 6.7 |
| 160°-170° | 96.3 | 4.5 |
| 170°-180° | 33.7 | 1.6 |
| 0°-30° | 478.8 | 22.2 |
| 0°-40° | 688.7 | 32.0 |
| 0°-60° | 1016.3 | 47.2 |
| 0°-90° | 1167.6 | 54.2 |
| 90°-120° | 210.6 | 9.8 |
| 90°-150° | 712.7 | 33.1 |
| 90°-180° | 987.0 | 45.8 |
| 0°-180° | 2155.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|-----|------|------|------|
| 0° | 880 | 880 | 880 | 880 | 880 | |
| 5° | 1041 | 1008 | 882 | 713 | 662 | 95 |
| 15° | 630 | 851 | 842 | 453 | 376 | 178 |
| 25° | 313 | 468 | 751 | 318 | 286 | 148 |
| 35° | 226 | 286 | 616 | 250 | 222 | 141 |
| 45° | 161 | 201 | 445 | 187 | 164 | 125 |
| 55° | 107 | 138 | 276 | 130 | 102 | 96 |
| 65° | 65 | 82 | 152 | 78 | 68 | 64 |
| 75° | 28 | 35 | 69 | 36 | 30 | 31 |
| 85° | 8 | 9 | 14 | 9 | 9 | 8 |
| 90° | 8 | 7 | 0 | 7 | 8 | 4 |
| 95° | 22 | 21 | 16 | 21 | 22 | 22 |
| 105° | 67 | 66 | 63 | 66 | 67 | 71 |
| 115° | 119 | 119 | 119 | 119 | 119 | 118 |
| 125° | 172 | 174 | 174 | 174 | 172 | 154 |
| 135° | 226 | 227 | 226 | 227 | 226 | 174 |
| 145° | 274 | 276 | 274 | 276 | 274 | 171 |
| 155° | 313 | 314 | 314 | 314 | 313 | 144 |
| 165° | 341 | 341 | 342 | 341 | 341 | 96 |
| 175° | 354 | 354 | 356 | 354 | 354 | 34 |
| 180° | 356 | 356 | 356 | 356 | 356 | |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 |
| 2.5° | 975.3 | 972.2 | 969.2 | 968.3 | 967.4 | 964.5 | 961.6 | 955.1 | 948.6 | 941.9 | 935.3 |
| 5° | 1041.0 | 1041.3 | 1041.7 | 1040.8 | 1039.9 | 1036.1 | 1032.3 | 1024.4 | 1016.4 | 1007.8 | 999.1 |
| 7.5° | 1020.8 | 1026.6 | 1032.3 | 1033.4 | 1034.5 | 1037.4 | 1040.3 | 1038.5 | 1036.7 | 1033.4 | 1030.2 |
| 10° | 932.4 | 932.0 | 931.7 | 938.1 | 944.6 | 963.9 | 983.3 | 993.2 | 1003.1 | 1011.9 | 1020.8 |
| 12.5° | 788.0 | 788.6 | 789.1 | 810.4 | 831.7 | 849.9 | 868.1 | 893.4 | 918.7 | 945.9 | 973.1 |
| 15° | 629.6 | 638.5 | 647.3 | 666.3 | 685.2 | 712.6 | 740.1 | 774.0 | 807.9 | 851.0 | 894.1 |
| 17.5° | 517.1 | 520.9 | 524.6 | 542.9 | 561.1 | 587.1 | 613.0 | 651.5 | 689.9 | 745.5 | 801.0 |
| 20° | 426.1 | 429.6 | 433.0 | 446.2 | 459.3 | 484.2 | 509.1 | 545.8 | 582.4 | 637.4 | 692.4 |
| 22.5° | 355.8 | 362.5 | 369.1 | 378.0 | 386.8 | 404.8 | 422.9 | 460.2 | 497.6 | 547.7 | 597.9 |
| 25° | 313.2 | 316.3 | 319.3 | 326.9 | 334.5 | 351.8 | 369.1 | 393.8 | 418.6 | 468.5 | 518.5 |
| 27.5° | 284.3 | 285.2 | 286.1 | 291.7 | 297.3 | 308.5 | 319.7 | 342.6 | 365.5 | 406.7 | 447.8 |
| 30° | 260.5 | 262.1 | 263.8 | 268.1 | 272.4 | 280.5 | 288.7 | 304.9 | 321.1 | 357.9 | 394.7 |
| 32.5° | 242.1 | 243.0 | 243.9 | 247.5 | 251.1 | 257.1 | 263.0 | 275.9 | 288.7 | 316.8 | 345.0 |
| 35° | 226.2 | 226.4 | 226.6 | 229.3 | 232.0 | 237.8 | 243.6 | 254.2 | 264.8 | 285.6 | 306.3 |
| 37.5° | 208.2 | 209.5 | 210.7 | 212.7 | 214.7 | 219.7 | 224.8 | 233.5 | 242.1 | 259.3 | 276.4 |
| 40° | 193.0 | 194.1 | 195.2 | 197.6 | 199.9 | 203.9 | 207.8 | 215.8 | 223.7 | 238.5 | 253.3 |
| 42.5° | 177.9 | 178.6 | 179.3 | 181.7 | 184.0 | 188.9 | 193.8 | 200.1 | 206.4 | 218.7 | 230.9 |
| 45° | 160.9 | 162.7 | 164.5 | 167.1 | 169.6 | 173.7 | 177.9 | 184.4 | 190.9 | 201.3 | 211.8 |
| 47.5° | 146.9 | 147.8 | 148.7 | 150.8 | 153.0 | 158.0 | 163.1 | 168.9 | 174.6 | 184.4 | 194.1 |
| 50° | 132.8 | 133.1 | 133.5 | 135.5 | 137.5 | 142.0 | 146.5 | 153.2 | 159.8 | 168.9 | 177.9 |
| 52.5° | 119.4 | 120.3 | 121.2 | 123.2 | 125.2 | 128.3 | 131.3 | 138.2 | 145.1 | 153.9 | 162.7 |
| 55° | 107.2 | 107.7 | 108.2 | 109.7 | 111.1 | 114.7 | 118.4 | 124.3 | 130.3 | 138.4 | 146.5 |
| 57.5° | 95.6 | 96.3 | 97.1 | 98.1 | 99.2 | 102.5 | 105.7 | 111.0 | 116.2 | 124.3 | 132.4 |
| 60° | 83.7 | 84.6 | 85.5 | 86.8 | 88.0 | 90.6 | 93.1 | 97.8 | 102.5 | 109.7 | 116.9 |
| 62.5° | 75.1 | 75.2 | 75.4 | 76.5 | 77.6 | 79.4 | 81.2 | 85.0 | 88.8 | 96.0 | 103.2 |
| 65° | 65.3 | 65.9 | 66.4 | 66.9 | 67.5 | 68.9 | 70.4 | 73.6 | 76.9 | 82.3 | 87.7 |
| 67.5° | 55.2 | 55.7 | 56.3 | 57.2 | 58.1 | 59.4 | 60.6 | 62.8 | 64.9 | 70.0 | 75.1 |
| 70° | 42.9 | 42.9 | 42.9 | 44.4 | 45.8 | 48.0 | 50.2 | 51.8 | 53.4 | 57.6 | 61.7 |
| 72.5° | 35.0 | 35.2 | 35.4 | 35.5 | 35.7 | 37.0 | 38.2 | 41.0 | 43.7 | 46.2 | 48.7 |
| 75° | 28.5 | 28.7 | 28.9 | 29.0 | 29.2 | 29.6 | 29.9 | 30.9 | 31.8 | 34.6 | 37.5 |
| 77.5° | 22.7 | 22.9 | 23.1 | 23.3 | 23.5 | 23.8 | 24.2 | 24.5 | 24.9 | 26.0 | 27.1 |
| 80° | 17.3 | 17.5 | 17.7 | 17.9 | 18.0 | 18.2 | 18.4 | 18.8 | 19.1 | 19.7 | 20.2 |
| 82.5° | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 13.0 | 13.4 | 13.4 | 13.4 | 13.7 | 14.1 |
| 85° | 7.9 | 7.9 | 7.9 | 8.1 | 8.3 | 8.3 | 8.3 | 8.5 | 8.7 | 8.7 | 8.7 |
| 87.5° | 3.6 | 3.4 | 3.2 | 3.4 | 3.6 | 3.6 | 3.6 | 3.8 | 4.0 | 4.0 | 4.0 |
| 90° | 8.4 | 8.3 | 8.1 | 8.0 | 7.9 | 7.7 | 7.5 | 7.2 | 7.0 | 6.7 | 5.9 |
| 92.5° | 12.0 | 12.2 | 12.3 | 12.4 | 12.5 | 12.5 | 12.3 | 12.1 | 11.9 | 11.8 | 11.4 |
| 95° | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.7 | 21.5 | 21.2 | 21.0 | 20.7 | 20.2 |
| 97.5° | 31.4 | 31.4 | 31.5 | 31.5 | 31.6 | 31.5 | 31.2 | 30.9 | 30.5 | 30.2 | 29.9 |
| 100° | 42.6 | 42.4 | 42.3 | 42.2 | 42.1 | 41.9 | 41.7 | 41.5 | 41.3 | 41.2 | 40.8 |
| 102.5° | 54.0 | 54.1 | 54.2 | 54.2 | 54.3 | 54.2 | 54.0 | 53.8 | 53.7 | 53.5 | 53.0 |
| 105° | 66.6 | 66.5 | 66.4 | 66.3 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 65.5 |
| 107.5° | 79.5 | 79.6 | 79.6 | 79.7 | 79.8 | 79.7 | 79.5 | 79.3 | 79.1 | 78.9 | 78.7 |
| 110° | 92.7 | 92.8 | 92.9 | 93.0 | 93.2 | 93.1 | 92.9 | 92.6 | 92.4 | 92.1 | 92.0 |



TEST NUMBER: P832102

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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 106.7 | 106.7 | 106.7 | 106.7 | 106.7 | 106.5 | 106.2 | 105.9 | 105.6 | 105.3 | 105.3 |
| 115° | 119.3 | 119.3 | 119.4 | 119.4 | 119.5 | 119.5 | 119.4 | 119.4 | 119.3 | 119.3 | 119.4 |
| 117.5° | 132.1 | 132.3 | 132.5 | 132.7 | 132.9 | 133.0 | 133.0 | 133.0 | 133.0 | 133.0 | 133.1 |
| 120° | 145.9 | 146.0 | 146.1 | 146.2 | 146.4 | 146.4 | 146.5 | 146.6 | 146.6 | 146.7 | 147.0 |
| 122.5° | 159.0 | 159.2 | 159.4 | 159.6 | 159.8 | 159.9 | 160.1 | 160.3 | 160.5 | 160.7 | 160.8 |
| 125° | 172.2 | 172.4 | 172.7 | 172.9 | 173.2 | 173.4 | 173.7 | 173.9 | 174.2 | 174.4 | 174.5 |
| 127.5° | 185.3 | 185.6 | 185.8 | 186.1 | 186.3 | 186.6 | 187.0 | 187.4 | 187.8 | 188.1 | 188.3 |
| 130° | 198.2 | 198.6 | 199.1 | 199.5 | 199.9 | 200.3 | 200.5 | 200.8 | 201.0 | 201.3 | 201.5 |
| 132.5° | 211.6 | 212.0 | 212.3 | 212.6 | 212.9 | 213.2 | 213.5 | 213.8 | 214.1 | 214.4 | 214.6 |
| 135° | 225.6 | 225.8 | 225.9 | 226.0 | 226.1 | 226.3 | 226.6 | 226.8 | 227.1 | 227.3 | 227.4 |
| 137.5° | 238.0 | 238.1 | 238.3 | 238.5 | 238.7 | 239.0 | 239.3 | 239.6 | 239.9 | 240.2 | 240.0 |
| 140° | 250.0 | 250.4 | 250.9 | 251.3 | 251.7 | 252.0 | 252.0 | 252.1 | 252.2 | 252.2 | 252.2 |
| 142.5° | 262.3 | 262.6 | 262.9 | 263.2 | 263.6 | 263.7 | 263.8 | 263.9 | 263.9 | 264.0 | 263.9 |
| 145° | 274.1 | 274.3 | 274.6 | 274.8 | 275.1 | 275.2 | 275.3 | 275.3 | 275.4 | 275.5 | 275.3 |
| 147.5° | 284.7 | 285.1 | 285.5 | 285.8 | 286.2 | 286.4 | 286.4 | 286.4 | 286.4 | 286.4 | 286.2 |
| 150° | 294.8 | 295.2 | 295.5 | 295.9 | 296.3 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.3 |
| 152.5° | 304.6 | 304.9 | 305.2 | 305.5 | 305.8 | 305.9 | 305.8 | 305.7 | 305.5 | 305.4 | 305.4 |
| 155° | 313.3 | 313.7 | 314.1 | 314.6 | 315.0 | 315.1 | 314.9 | 314.6 | 314.4 | 314.1 | 314.0 |
| 157.5° | 321.4 | 321.8 | 322.1 | 322.5 | 322.9 | 322.9 | 322.7 | 322.4 | 322.2 | 321.9 | 321.9 |
| 160° | 329.2 | 329.5 | 329.7 | 330.0 | 330.2 | 330.2 | 329.9 | 329.6 | 329.3 | 328.9 | 328.9 |
| 162.5° | 335.1 | 335.5 | 336.0 | 336.4 | 336.8 | 336.9 | 336.6 | 336.3 | 336.0 | 335.7 | 335.6 |
| 165° | 340.7 | 341.1 | 341.6 | 342.0 | 342.4 | 342.5 | 342.1 | 341.7 | 341.4 | 341.0 | 341.0 |
| 167.5° | 345.7 | 346.1 | 346.5 | 346.9 | 347.2 | 347.2 | 346.9 | 346.5 | 346.1 | 345.7 | 345.7 |
| 170° | 349.4 | 349.8 | 350.2 | 350.7 | 351.1 | 351.1 | 350.7 | 350.2 | 349.8 | 349.4 | 349.4 |
| 172.5° | 352.2 | 352.6 | 353.0 | 353.5 | 353.9 | 353.9 | 353.6 | 353.2 | 352.8 | 352.5 | 352.5 |
| 175° | 354.1 | 354.6 | 355.0 | 355.4 | 355.9 | 355.9 | 355.5 | 355.2 | 354.8 | 354.4 | 354.4 |
| 177.5° | 355.3 | 355.7 | 356.1 | 356.6 | 357.0 | 357.0 | 356.7 | 356.3 | 355.9 | 355.5 | 355.5 |
| 180° | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 |
| 2.5° | 934.4 | 933.5 | 924.8 | 916.1 | 907.7 | 899.2 | 892.9 | 886.6 | 875.9 | 865.3 | 858.6 |
| 5° | 992.3 | 985.4 | 971.7 | 958.0 | 937.4 | 916.9 | 899.5 | 882.2 | 860.2 | 838.2 | 819.8 |
| 7.5° | 1024.6 | 1019.0 | 1002.4 | 985.8 | 958.5 | 931.3 | 904.2 | 877.2 | 844.7 | 812.2 | 784.4 |
| 10° | 1025.5 | 1030.2 | 1016.4 | 1002.7 | 972.1 | 941.4 | 904.6 | 867.8 | 824.1 | 780.5 | 744.6 |
| 12.5° | 993.4 | 1013.6 | 1010.7 | 1007.8 | 976.6 | 945.4 | 900.6 | 855.9 | 802.3 | 748.7 | 703.8 |
| 15° | 933.3 | 972.4 | 984.0 | 995.5 | 969.7 | 943.9 | 893.0 | 842.2 | 779.2 | 716.2 | 664.6 |
| 17.5° | 855.9 | 910.7 | 941.2 | 971.7 | 952.9 | 934.2 | 878.4 | 822.7 | 751.8 | 680.9 | 624.8 |
| 20° | 764.2 | 836.0 | 883.8 | 931.7 | 924.8 | 917.9 | 860.4 | 802.8 | 726.3 | 649.8 | 589.0 |
| 22.5° | 673.7 | 749.4 | 815.5 | 881.5 | 888.5 | 895.6 | 837.5 | 779.4 | 695.7 | 612.0 | 550.1 |
| 25° | 595.5 | 672.6 | 751.2 | 829.9 | 845.8 | 861.7 | 806.4 | 751.2 | 664.5 | 577.7 | 516.2 |
| 27.5° | 521.0 | 594.3 | 680.9 | 767.5 | 796.3 | 825.2 | 774.7 | 724.2 | 633.8 | 543.4 | 482.1 |
| 30° | 460.2 | 525.7 | 614.1 | 702.5 | 742.8 | 783.0 | 736.6 | 690.3 | 600.6 | 510.9 | 450.9 |
| 32.5° | 403.6 | 462.2 | 551.0 | 639.7 | 686.5 | 733.2 | 693.1 | 653.1 | 566.9 | 480.6 | 421.3 |
| 35° | 358.8 | 411.3 | 494.2 | 577.0 | 629.3 | 681.6 | 648.8 | 615.9 | 531.7 | 447.4 | 391.3 |
| 37.5° | 320.4 | 364.4 | 442.2 | 520.0 | 575.5 | 631.1 | 603.7 | 576.2 | 497.0 | 417.8 | 364.8 |
| 40° | 288.7 | 324.0 | 396.4 | 468.7 | 523.2 | 577.7 | 554.2 | 530.8 | 459.9 | 389.0 | 339.4 |
| 42.5° | 261.4 | 291.9 | 356.9 | 421.8 | 471.8 | 521.8 | 506.2 | 490.7 | 426.5 | 362.3 | 316.3 |
| 45° | 237.4 | 263.0 | 320.2 | 377.4 | 423.4 | 469.4 | 457.2 | 444.9 | 389.5 | 334.1 | 291.9 |
| 47.5° | 216.1 | 238.1 | 289.2 | 340.3 | 381.6 | 422.9 | 411.5 | 400.2 | 354.3 | 308.5 | 270.1 |
| 50° | 196.7 | 215.4 | 258.0 | 300.6 | 337.7 | 374.9 | 365.5 | 356.1 | 318.2 | 280.4 | 247.2 |
| 52.5° | 178.2 | 193.8 | 232.0 | 270.3 | 300.2 | 330.2 | 322.9 | 315.7 | 286.5 | 257.3 | 227.1 |
| 55° | 160.7 | 175.0 | 207.3 | 239.6 | 265.2 | 290.8 | 283.6 | 276.4 | 253.7 | 230.9 | 204.4 |
| 57.5° | 144.9 | 157.3 | 183.5 | 209.6 | 230.0 | 250.4 | 247.0 | 243.6 | 224.6 | 205.7 | 183.8 |
| 60° | 128.1 | 139.3 | 161.8 | 184.4 | 200.8 | 217.2 | 213.2 | 209.3 | 195.7 | 182.2 | 163.5 |
| 62.5° | 113.1 | 123.0 | 141.1 | 159.1 | 172.5 | 185.8 | 182.9 | 180.1 | 169.8 | 159.5 | 144.0 |
| 65° | 97.4 | 107.2 | 121.8 | 136.4 | 146.9 | 157.3 | 154.8 | 152.3 | 144.5 | 136.8 | 124.3 |
| 67.5° | 83.2 | 91.3 | 103.9 | 116.5 | 123.6 | 130.6 | 129.2 | 127.7 | 121.8 | 115.8 | 106.1 |
| 70° | 68.7 | 75.8 | 86.2 | 96.7 | 101.6 | 106.4 | 107.0 | 107.5 | 102.1 | 96.7 | 89.5 |
| 72.5° | 54.3 | 59.9 | 69.6 | 79.4 | 83.2 | 87.0 | 86.8 | 86.6 | 83.4 | 80.1 | 73.6 |
| 75° | 41.7 | 45.8 | 53.4 | 61.0 | 64.2 | 67.5 | 68.2 | 68.9 | 65.9 | 62.8 | 59.2 |
| 77.5° | 29.9 | 32.8 | 38.6 | 44.4 | 48.0 | 51.6 | 52.0 | 52.3 | 50.9 | 49.4 | 46.0 |
| 80° | 21.1 | 22.0 | 25.6 | 29.2 | 33.0 | 36.8 | 37.3 | 37.9 | 36.4 | 35.0 | 32.8 |
| 82.5° | 14.6 | 15.2 | 16.4 | 17.7 | 20.7 | 23.8 | 24.5 | 25.3 | 24.5 | 23.8 | 21.5 |
| 85° | 8.8 | 9.0 | 9.6 | 10.1 | 11.5 | 13.0 | 13.7 | 14.4 | 14.1 | 13.7 | 12.4 |
| 87.5° | 4.0 | 4.0 | 4.1 | 4.3 | 4.7 | 5.1 | 6.0 | 6.9 | 6.3 | 5.8 | 5.2 |
| 90° | 5.1 | 4.3 | 3.5 | 2.8 | 2.1 | 1.5 | 0.9 | 0.3 | 0.9 | 1.5 | 2.1 |
| 92.5° | 11.0 | 10.6 | 10.3 | 9.9 | 9.5 | 9.1 | 8.8 | 8.4 | 8.8 | 9.1 | 9.5 |
| 95° | 19.7 | 19.2 | 18.7 | 18.3 | 17.8 | 17.4 | 17.0 | 16.5 | 17.0 | 17.4 | 17.8 |
| 97.5° | 29.5 | 29.1 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 27.5 | 27.8 | 28.1 |
| 100° | 40.5 | 40.2 | 39.9 | 39.6 | 39.2 | 38.8 | 38.4 | 38.1 | 38.4 | 38.8 | 39.2 |
| 102.5° | 52.6 | 52.2 | 51.7 | 51.4 | 51.2 | 51.0 | 50.9 | 50.7 | 50.9 | 51.0 | 51.2 |
| 105° | 64.9 | 64.4 | 63.8 | 63.5 | 63.4 | 63.2 | 63.1 | 63.0 | 63.1 | 63.2 | 63.4 |
| 107.5° | 78.4 | 78.2 | 78.0 | 77.8 | 77.7 | 77.7 | 77.6 | 77.5 | 77.6 | 77.7 | 77.7 |
| 110° | 91.9 | 91.7 | 91.6 | 91.5 | 91.4 | 91.2 | 91.1 | 91.0 | 91.1 | 91.2 | 91.4 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 105.3 | 105.3 | 105.3 | 105.2 | 105.2 | 105.1 | 105.0 | 105.0 | 105.0 | 105.1 | 105.2 |
| 115° | 119.5 | 119.6 | 119.8 | 119.7 | 119.5 | 119.4 | 119.2 | 119.0 | 119.2 | 119.4 | 119.5 |
| 117.5° | 133.2 | 133.3 | 133.5 | 133.5 | 133.4 | 133.4 | 133.3 | 133.3 | 133.3 | 133.4 | 133.4 |
| 120° | 147.3 | 147.6 | 147.9 | 147.9 | 147.5 | 147.2 | 146.8 | 146.4 | 146.8 | 147.2 | 147.5 |
| 122.5° | 160.9 | 161.1 | 161.2 | 161.1 | 160.9 | 160.6 | 160.4 | 160.1 | 160.4 | 160.6 | 160.9 |
| 125° | 174.7 | 174.8 | 174.9 | 174.9 | 174.7 | 174.5 | 174.3 | 174.1 | 174.3 | 174.5 | 174.7 |
| 127.5° | 188.4 | 188.5 | 188.6 | 188.5 | 188.1 | 187.8 | 187.4 | 187.0 | 187.4 | 187.8 | 188.1 |
| 130° | 201.7 | 201.8 | 202.0 | 201.9 | 201.4 | 200.9 | 200.4 | 199.9 | 200.4 | 200.9 | 201.4 |
| 132.5° | 214.7 | 214.8 | 214.9 | 214.8 | 214.3 | 213.8 | 213.3 | 212.8 | 213.3 | 213.8 | 214.3 |
| 135° | 227.4 | 227.5 | 227.6 | 227.4 | 227.0 | 226.7 | 226.3 | 225.9 | 226.3 | 226.7 | 227.0 |
| 137.5° | 239.8 | 239.6 | 239.5 | 239.2 | 238.9 | 238.6 | 238.3 | 238.0 | 238.3 | 238.6 | 238.9 |
| 140° | 252.1 | 252.0 | 252.0 | 251.8 | 251.5 | 251.2 | 250.9 | 250.6 | 250.9 | 251.2 | 251.5 |
| 142.5° | 263.7 | 263.6 | 263.5 | 263.3 | 263.0 | 262.7 | 262.3 | 262.0 | 262.3 | 262.7 | 263.0 |
| 145° | 275.1 | 274.9 | 274.7 | 274.6 | 274.4 | 274.3 | 274.2 | 274.1 | 274.2 | 274.3 | 274.4 |
| 147.5° | 286.0 | 285.8 | 285.6 | 285.4 | 285.2 | 284.9 | 284.7 | 284.4 | 284.7 | 284.9 | 285.2 |
| 150° | 296.2 | 296.1 | 296.0 | 295.8 | 295.7 | 295.6 | 295.5 | 295.3 | 295.5 | 295.6 | 295.7 |
| 152.5° | 305.3 | 305.2 | 305.2 | 305.1 | 304.9 | 304.7 | 304.5 | 304.3 | 304.5 | 304.7 | 304.9 |
| 155° | 314.0 | 313.9 | 313.9 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 | 313.8 |
| 157.5° | 321.8 | 321.8 | 321.7 | 321.7 | 321.8 | 321.8 | 321.9 | 321.9 | 321.9 | 321.8 | 321.8 |
| 160° | 328.9 | 328.9 | 328.9 | 329.0 | 329.1 | 329.3 | 329.4 | 329.5 | 329.4 | 329.3 | 329.1 |
| 162.5° | 335.5 | 335.5 | 335.4 | 335.5 | 335.7 | 335.8 | 336.0 | 336.2 | 336.0 | 335.8 | 335.7 |
| 165° | 341.0 | 341.0 | 341.0 | 341.1 | 341.3 | 341.4 | 341.6 | 341.8 | 341.6 | 341.4 | 341.3 |
| 167.5° | 345.6 | 345.6 | 345.5 | 345.6 | 345.8 | 346.1 | 346.3 | 346.6 | 346.3 | 346.1 | 345.8 |
| 170° | 349.4 | 349.4 | 349.4 | 349.5 | 349.8 | 350.0 | 350.2 | 350.5 | 350.2 | 350.0 | 349.8 |
| 172.5° | 352.5 | 352.5 | 352.5 | 352.6 | 352.8 | 353.1 | 353.3 | 353.6 | 353.3 | 353.1 | 352.8 |
| 175° | 354.4 | 354.4 | 354.4 | 354.5 | 354.8 | 355.0 | 355.3 | 355.5 | 355.3 | 355.0 | 354.8 |
| 177.5° | 355.5 | 355.5 | 355.5 | 355.7 | 355.9 | 356.2 | 356.4 | 356.7 | 356.4 | 356.2 | 355.9 |
| 180° | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 | 880.1 |
| 2.5° | 851.9 | 841.6 | 831.3 | 823.9 | 816.6 | 807.3 | 798.1 | 797.8 | 797.4 | 790.6 | 783.7 |
| 5° | 801.4 | 783.5 | 765.7 | 748.2 | 730.7 | 713.2 | 695.7 | 691.7 | 687.7 | 681.8 | 675.8 |
| 7.5° | 756.7 | 728.1 | 699.6 | 677.3 | 654.9 | 637.4 | 619.9 | 608.0 | 596.1 | 586.9 | 577.7 |
| 10° | 708.7 | 673.3 | 637.9 | 610.9 | 583.8 | 564.9 | 545.9 | 532.2 | 518.5 | 512.0 | 505.5 |
| 12.5° | 658.9 | 620.4 | 582.0 | 555.5 | 529.0 | 506.2 | 483.5 | 471.1 | 458.6 | 449.6 | 440.6 |
| 15° | 613.0 | 571.7 | 530.4 | 502.3 | 474.1 | 452.8 | 431.5 | 419.1 | 406.7 | 397.6 | 388.6 |
| 17.5° | 568.7 | 527.0 | 485.3 | 456.8 | 428.3 | 409.0 | 389.7 | 377.6 | 365.5 | 359.9 | 354.3 |
| 20° | 528.3 | 486.2 | 444.2 | 417.3 | 390.4 | 371.5 | 352.5 | 346.0 | 339.5 | 334.3 | 329.1 |
| 22.5° | 488.2 | 447.8 | 407.4 | 381.6 | 355.8 | 342.1 | 328.4 | 323.1 | 317.9 | 313.9 | 310.0 |
| 25° | 454.6 | 414.4 | 374.2 | 351.6 | 329.1 | 318.4 | 307.8 | 304.4 | 300.9 | 297.0 | 293.0 |
| 27.5° | 420.7 | 382.5 | 344.2 | 326.2 | 308.1 | 299.5 | 290.8 | 286.5 | 282.2 | 278.9 | 275.7 |
| 30° | 390.8 | 355.4 | 320.1 | 305.1 | 290.1 | 282.5 | 274.9 | 270.3 | 265.6 | 262.5 | 259.4 |
| 32.5° | 361.9 | 330.5 | 299.1 | 286.3 | 273.5 | 266.1 | 258.7 | 254.2 | 249.7 | 246.1 | 242.5 |
| 35° | 335.2 | 308.0 | 280.7 | 269.0 | 257.3 | 249.9 | 242.5 | 238.0 | 233.5 | 229.8 | 226.2 |
| 37.5° | 311.8 | 287.0 | 262.3 | 251.3 | 240.3 | 233.8 | 227.3 | 222.6 | 217.9 | 214.2 | 210.4 |
| 40° | 289.7 | 267.9 | 246.1 | 235.4 | 224.8 | 217.8 | 210.7 | 206.6 | 202.4 | 199.0 | 195.6 |
| 42.5° | 270.3 | 250.2 | 230.2 | 219.7 | 209.3 | 202.6 | 195.9 | 191.1 | 186.2 | 184.2 | 182.2 |
| 45° | 249.7 | 232.0 | 214.3 | 204.2 | 194.1 | 187.1 | 180.1 | 175.9 | 171.8 | 169.9 | 168.1 |
| 47.5° | 231.7 | 215.2 | 198.8 | 188.9 | 179.0 | 172.7 | 166.3 | 163.1 | 159.8 | 157.3 | 154.8 |
| 50° | 214.0 | 198.1 | 182.2 | 172.7 | 163.1 | 157.7 | 152.3 | 148.3 | 144.3 | 142.5 | 140.7 |
| 52.5° | 197.0 | 182.6 | 168.1 | 158.4 | 148.7 | 143.4 | 138.2 | 134.8 | 131.3 | 127.6 | 123.8 |
| 55° | 177.9 | 165.3 | 152.6 | 144.0 | 135.3 | 129.9 | 124.5 | 120.5 | 116.5 | 112.6 | 108.6 |
| 57.5° | 162.0 | 149.6 | 137.1 | 129.4 | 121.6 | 116.4 | 111.1 | 106.8 | 102.5 | 99.2 | 96.0 |
| 60° | 144.7 | 133.9 | 123.0 | 115.5 | 107.9 | 102.8 | 97.8 | 93.6 | 89.5 | 87.9 | 86.2 |
| 62.5° | 128.5 | 118.4 | 108.2 | 101.6 | 94.9 | 90.0 | 85.2 | 82.4 | 79.7 | 78.7 | 77.6 |
| 65° | 111.9 | 103.2 | 94.5 | 88.4 | 82.3 | 78.1 | 74.0 | 72.7 | 71.4 | 70.5 | 69.6 |
| 67.5° | 96.3 | 88.9 | 81.5 | 76.1 | 70.7 | 67.8 | 64.9 | 63.5 | 62.1 | 61.0 | 59.9 |
| 70° | 82.3 | 75.8 | 69.3 | 64.6 | 59.9 | 57.2 | 54.5 | 53.2 | 52.0 | 50.0 | 48.0 |
| 72.5° | 67.1 | 62.1 | 57.0 | 53.4 | 49.8 | 47.4 | 45.1 | 42.6 | 40.1 | 38.2 | 36.4 |
| 75° | 55.6 | 50.5 | 45.5 | 42.0 | 38.6 | 35.9 | 33.2 | 32.3 | 31.4 | 30.9 | 30.3 |
| 77.5° | 42.6 | 38.2 | 33.9 | 31.2 | 28.5 | 27.2 | 26.0 | 25.4 | 24.9 | 24.7 | 24.5 |
| 80° | 30.7 | 27.1 | 23.5 | 22.0 | 20.6 | 20.2 | 19.8 | 19.5 | 19.1 | 18.9 | 18.8 |
| 82.5° | 19.1 | 17.3 | 15.5 | 15.2 | 14.8 | 14.6 | 14.4 | 14.3 | 14.1 | 13.9 | 13.7 |
| 85° | 11.2 | 10.5 | 9.7 | 9.6 | 9.4 | 9.2 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 87.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.5 | 4.3 |
| 90° | 2.8 | 3.5 | 4.3 | 5.1 | 5.9 | 6.7 | 7.0 | 7.2 | 7.5 | 7.7 | 7.9 |
| 92.5° | 9.9 | 10.3 | 10.6 | 11.0 | 11.4 | 11.8 | 11.9 | 12.1 | 12.3 | 12.5 | 12.5 |
| 95° | 18.3 | 18.7 | 19.2 | 19.7 | 20.2 | 20.7 | 21.0 | 21.2 | 21.5 | 21.7 | 21.8 |
| 97.5° | 28.4 | 28.7 | 29.1 | 29.5 | 29.9 | 30.2 | 30.5 | 30.9 | 31.2 | 31.5 | 31.6 |
| 100° | 39.6 | 39.9 | 40.2 | 40.5 | 40.8 | 41.2 | 41.3 | 41.5 | 41.7 | 41.9 | 42.1 |
| 102.5° | 51.4 | 51.7 | 52.2 | 52.6 | 53.0 | 53.5 | 53.7 | 53.8 | 54.0 | 54.2 | 54.3 |
| 105° | 63.5 | 63.8 | 64.4 | 64.9 | 65.5 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 |
| 107.5° | 77.8 | 78.0 | 78.2 | 78.4 | 78.7 | 78.9 | 79.1 | 79.3 | 79.5 | 79.7 | 79.8 |
| 110° | 91.5 | 91.6 | 91.7 | 91.9 | 92.0 | 92.1 | 92.4 | 92.6 | 92.9 | 93.1 | 93.2 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 105.2 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.6 | 105.9 | 106.2 | 106.5 | 106.7 |
| 115° | 119.7 | 119.8 | 119.6 | 119.5 | 119.4 | 119.3 | 119.3 | 119.4 | 119.4 | 119.5 | 119.5 |
| 117.5° | 133.5 | 133.5 | 133.3 | 133.2 | 133.1 | 133.0 | 133.0 | 133.0 | 133.0 | 133.0 | 132.9 |
| 120° | 147.9 | 147.9 | 147.6 | 147.3 | 147.0 | 146.7 | 146.6 | 146.6 | 146.5 | 146.4 | 146.4 |
| 122.5° | 161.1 | 161.2 | 161.1 | 160.9 | 160.8 | 160.7 | 160.5 | 160.3 | 160.1 | 159.9 | 159.8 |
| 125° | 174.9 | 174.9 | 174.8 | 174.7 | 174.5 | 174.4 | 174.2 | 173.9 | 173.7 | 173.4 | 173.2 |
| 127.5° | 188.5 | 188.6 | 188.5 | 188.4 | 188.3 | 188.1 | 187.8 | 187.4 | 187.0 | 186.6 | 186.3 |
| 130° | 201.9 | 202.0 | 201.8 | 201.7 | 201.5 | 201.3 | 201.0 | 200.8 | 200.5 | 200.3 | 199.9 |
| 132.5° | 214.8 | 214.9 | 214.8 | 214.7 | 214.6 | 214.4 | 214.1 | 213.8 | 213.5 | 213.2 | 212.9 |
| 135° | 227.4 | 227.6 | 227.5 | 227.4 | 227.4 | 227.3 | 227.1 | 226.8 | 226.6 | 226.3 | 226.1 |
| 137.5° | 239.2 | 239.5 | 239.6 | 239.8 | 240.0 | 240.2 | 239.9 | 239.6 | 239.3 | 239.0 | 238.7 |
| 140° | 251.8 | 252.0 | 252.0 | 252.1 | 252.2 | 252.2 | 252.2 | 252.1 | 252.0 | 252.0 | 251.7 |
| 142.5° | 263.3 | 263.5 | 263.6 | 263.7 | 263.9 | 264.0 | 263.9 | 263.9 | 263.8 | 263.7 | 263.6 |
| 145° | 274.6 | 274.7 | 274.9 | 275.1 | 275.3 | 275.5 | 275.4 | 275.3 | 275.3 | 275.2 | 275.1 |
| 147.5° | 285.4 | 285.6 | 285.8 | 286.0 | 286.2 | 286.4 | 286.4 | 286.4 | 286.4 | 286.4 | 286.2 |
| 150° | 295.8 | 296.0 | 296.1 | 296.2 | 296.3 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.3 |
| 152.5° | 305.1 | 305.2 | 305.2 | 305.3 | 305.4 | 305.4 | 305.5 | 305.7 | 305.8 | 305.9 | 305.8 |
| 155° | 313.8 | 313.9 | 313.9 | 314.0 | 314.0 | 314.1 | 314.4 | 314.6 | 314.9 | 315.1 | 315.0 |
| 157.5° | 321.7 | 321.7 | 321.8 | 321.8 | 321.9 | 321.9 | 322.2 | 322.4 | 322.7 | 322.9 | 322.9 |
| 160° | 329.0 | 328.9 | 328.9 | 328.9 | 328.9 | 328.9 | 329.3 | 329.6 | 329.9 | 330.2 | 330.2 |
| 162.5° | 335.5 | 335.4 | 335.5 | 335.5 | 335.6 | 335.7 | 336.0 | 336.3 | 336.6 | 336.9 | 336.8 |
| 165° | 341.1 | 341.0 | 341.0 | 341.0 | 341.0 | 341.0 | 341.4 | 341.7 | 342.1 | 342.5 | 342.4 |
| 167.5° | 345.6 | 345.5 | 345.6 | 345.6 | 345.7 | 345.7 | 346.1 | 346.5 | 346.9 | 347.2 | 347.2 |
| 170° | 349.5 | 349.4 | 349.4 | 349.4 | 349.4 | 349.4 | 349.8 | 350.2 | 350.7 | 351.1 | 351.1 |
| 172.5° | 352.6 | 352.5 | 352.5 | 352.5 | 352.5 | 352.5 | 352.8 | 353.2 | 353.6 | 353.9 | 353.9 |
| 175° | 354.5 | 354.4 | 354.4 | 354.4 | 354.4 | 354.4 | 354.8 | 355.2 | 355.5 | 355.9 | 355.9 |
| 177.5° | 355.7 | 355.5 | 355.5 | 355.5 | 355.5 | 355.5 | 355.9 | 356.3 | 356.7 | 357.0 | 357.0 |
| 180° | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 | 356.4 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 0° | 880.1 | 880.1 | 880.1 | 880.1 |
| 2.5° | 781.9 | 780.1 | 779.4 | 778.7 |
| 5° | 670.2 | 664.6 | 663.4 | 662.1 |
| 7.5° | 575.3 | 573.0 | 565.2 | 557.5 |
| 10° | 498.3 | 491.1 | 487.8 | 484.6 |
| 12.5° | 433.9 | 427.2 | 426.1 | 425.1 |
| 15° | 383.9 | 379.2 | 377.6 | 376.0 |
| 17.5° | 351.1 | 347.8 | 345.9 | 343.9 |
| 20° | 326.7 | 324.4 | 322.9 | 321.5 |
| 22.5° | 308.1 | 306.3 | 305.3 | 304.2 |
| 25° | 290.3 | 287.6 | 286.7 | 285.8 |
| 27.5° | 273.3 | 271.0 | 270.1 | 269.2 |
| 30° | 257.4 | 255.5 | 254.2 | 252.9 |
| 32.5° | 240.1 | 237.8 | 237.1 | 236.3 |
| 35° | 224.8 | 223.4 | 222.6 | 221.9 |
| 37.5° | 208.6 | 206.8 | 205.7 | 204.6 |
| 40° | 194.7 | 193.8 | 193.2 | 192.7 |
| 42.5° | 180.6 | 179.0 | 178.8 | 178.6 |
| 45° | 166.5 | 164.9 | 164.5 | 164.2 |
| 47.5° | 153.4 | 151.9 | 151.7 | 151.5 |
| 50° | 138.7 | 136.8 | 135.3 | 133.9 |
| 52.5° | 122.0 | 120.2 | 118.9 | 117.6 |
| 55° | 106.6 | 104.6 | 103.6 | 102.5 |
| 57.5° | 95.1 | 94.2 | 93.6 | 93.1 |
| 60° | 85.7 | 85.2 | 84.8 | 84.4 |
| 62.5° | 77.0 | 76.5 | 76.5 | 76.5 |
| 65° | 69.1 | 68.6 | 68.0 | 67.5 |
| 67.5° | 58.8 | 57.7 | 57.6 | 57.4 |
| 70° | 46.4 | 44.7 | 44.6 | 44.4 |
| 72.5° | 36.3 | 36.1 | 35.7 | 35.4 |
| 75° | 29.9 | 29.6 | 29.6 | 29.6 |
| 77.5° | 24.2 | 23.8 | 23.8 | 23.8 |
| 80° | 18.6 | 18.4 | 18.6 | 18.8 |
| 82.5° | 13.7 | 13.7 | 13.5 | 13.4 |
| 85° | 8.8 | 8.7 | 8.7 | 8.7 |
| 87.5° | 4.3 | 4.3 | 4.3 | 4.3 |
| 90° | 8.0 | 8.1 | 8.3 | 8.4 |
| 92.5° | 12.4 | 12.3 | 12.2 | 12.0 |
| 95° | 21.8 | 21.8 | 21.8 | 21.8 |
| 97.5° | 31.5 | 31.5 | 31.4 | 31.4 |
| 100° | 42.2 | 42.3 | 42.4 | 42.6 |
| 102.5° | 54.2 | 54.2 | 54.1 | 54.0 |
| 105° | 66.3 | 66.4 | 66.5 | 66.6 |
| 107.5° | 79.7 | 79.6 | 79.6 | 79.5 |
| 110° | 93.0 | 92.9 | 92.8 | 92.7 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|--------|-------|-------|-------|-------|
| 112.5° | 106.7 | 106.7 | 106.7 | 106.7 |
| 115° | 119.4 | 119.4 | 119.3 | 119.3 |
| 117.5° | 132.7 | 132.5 | 132.3 | 132.1 |
| 120° | 146.2 | 146.1 | 146.0 | 145.9 |
| 122.5° | 159.6 | 159.4 | 159.2 | 159.0 |
| 125° | 172.9 | 172.7 | 172.4 | 172.2 |
| 127.5° | 186.1 | 185.8 | 185.6 | 185.3 |
| 130° | 199.5 | 199.1 | 198.6 | 198.2 |
| 132.5° | 212.6 | 212.3 | 212.0 | 211.6 |
| 135° | 226.0 | 225.9 | 225.8 | 225.6 |
| 137.5° | 238.5 | 238.3 | 238.1 | 238.0 |
| 140° | 251.3 | 250.9 | 250.4 | 250.0 |
| 142.5° | 263.2 | 262.9 | 262.6 | 262.3 |
| 145° | 274.8 | 274.6 | 274.3 | 274.1 |
| 147.5° | 285.8 | 285.5 | 285.1 | 284.7 |
| 150° | 295.9 | 295.5 | 295.2 | 294.8 |
| 152.5° | 305.5 | 305.2 | 304.9 | 304.6 |
| 155° | 314.6 | 314.1 | 313.7 | 313.3 |
| 157.5° | 322.5 | 322.1 | 321.8 | 321.4 |
| 160° | 330.0 | 329.7 | 329.5 | 329.2 |
| 162.5° | 336.4 | 336.0 | 335.5 | 335.1 |
| 165° | 342.0 | 341.6 | 341.1 | 340.7 |
| 167.5° | 346.9 | 346.5 | 346.1 | 345.7 |
| 170° | 350.7 | 350.2 | 349.8 | 349.4 |
| 172.5° | 353.5 | 353.0 | 352.6 | 352.2 |
| 175° | 355.4 | 355.0 | 354.6 | 354.1 |
| 177.5° | 356.6 | 356.1 | 355.7 | 355.3 |
| 180° | 356.4 | 356.4 | 356.4 | 356.4 |



TEST NUMBER: P832102

CATALOG NUMBER: S123RDIP-S340D365U927-4F0-1E-UDD-G1

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 8.94 | 9.78 | 9.88 | 10.73 | 11.94 | 13.61 | 14.45 | 14.54 | 15.39 | 16.60 |
| | 3H | 10.16 | 10.92 | 11.11 | 11.87 | 13.11 | 15.11 | 15.86 | 16.05 | 16.81 | 18.05 |
| | 4H | 10.55 | 11.26 | 11.51 | 12.21 | 13.46 | 15.60 | 16.31 | 16.56 | 17.26 | 18.51 |
| | 6H | 10.83 | 11.48 | 11.80 | 12.44 | 13.70 | 15.91 | 16.56 | 16.88 | 17.52 | 18.78 |
| | 8H | 10.92 | 11.54 | 11.89 | 12.51 | 13.77 | 15.99 | 16.61 | 16.96 | 17.59 | 18.84 |
| | 12H | 10.97 | 11.56 | 11.95 | 12.53 | 13.81 | 16.02 | 16.61 | 17.00 | 17.58 | 18.86 |
| 4H | 2H | 9.67 | 10.38 | 10.63 | 11.33 | 12.58 | 13.60 | 14.31 | 14.57 | 15.27 | 16.52 |
| | 3H | 11.04 | 11.63 | 12.01 | 12.61 | 13.87 | 15.26 | 15.85 | 16.24 | 16.84 | 18.10 |
| | 4H | 11.49 | 12.03 | 12.47 | 13.01 | 14.30 | 15.87 | 16.41 | 16.85 | 17.39 | 18.67 |
| | 6H | 11.86 | 12.32 | 12.86 | 13.32 | 14.61 | 16.31 | 16.77 | 17.30 | 17.77 | 19.06 |
| | 8H | 11.99 | 12.42 | 12.98 | 13.41 | 14.71 | 16.44 | 16.87 | 17.43 | 17.86 | 19.16 |
| | 12H | 12.06 | 12.45 | 13.07 | 13.46 | 14.76 | 16.50 | 16.89 | 17.51 | 17.90 | 19.20 |
| 8H | 4H | 11.81 | 12.24 | 12.80 | 13.23 | 14.53 | 15.84 | 16.27 | 16.83 | 17.26 | 18.56 |
| | 6H | 12.27 | 12.63 | 13.29 | 13.66 | 14.96 | 16.33 | 16.69 | 17.35 | 17.73 | 19.02 |
| | 8H | 12.47 | 12.78 | 13.49 | 13.80 | 15.12 | 16.52 | 16.83 | 17.55 | 17.86 | 19.17 |
| | 12H | 12.60 | 12.88 | 13.63 | 13.90 | 15.26 | 16.63 | 16.91 | 17.66 | 17.93 | 19.29 |
| 12H | 4H | 11.82 | 12.21 | 12.83 | 13.22 | 14.52 | 15.79 | 16.18 | 16.80 | 17.19 | 18.49 |
| | 6H | 12.33 | 12.64 | 13.36 | 13.67 | 14.98 | 16.31 | 16.62 | 17.34 | 17.65 | 18.96 |
| | 8H | 12.55 | 12.82 | 13.58 | 13.84 | 15.20 | 16.50 | 16.78 | 17.53 | 17.79 | 19.15 |