

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: P832110

Luminaire Tested: S123RDIP-S340D365U940-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

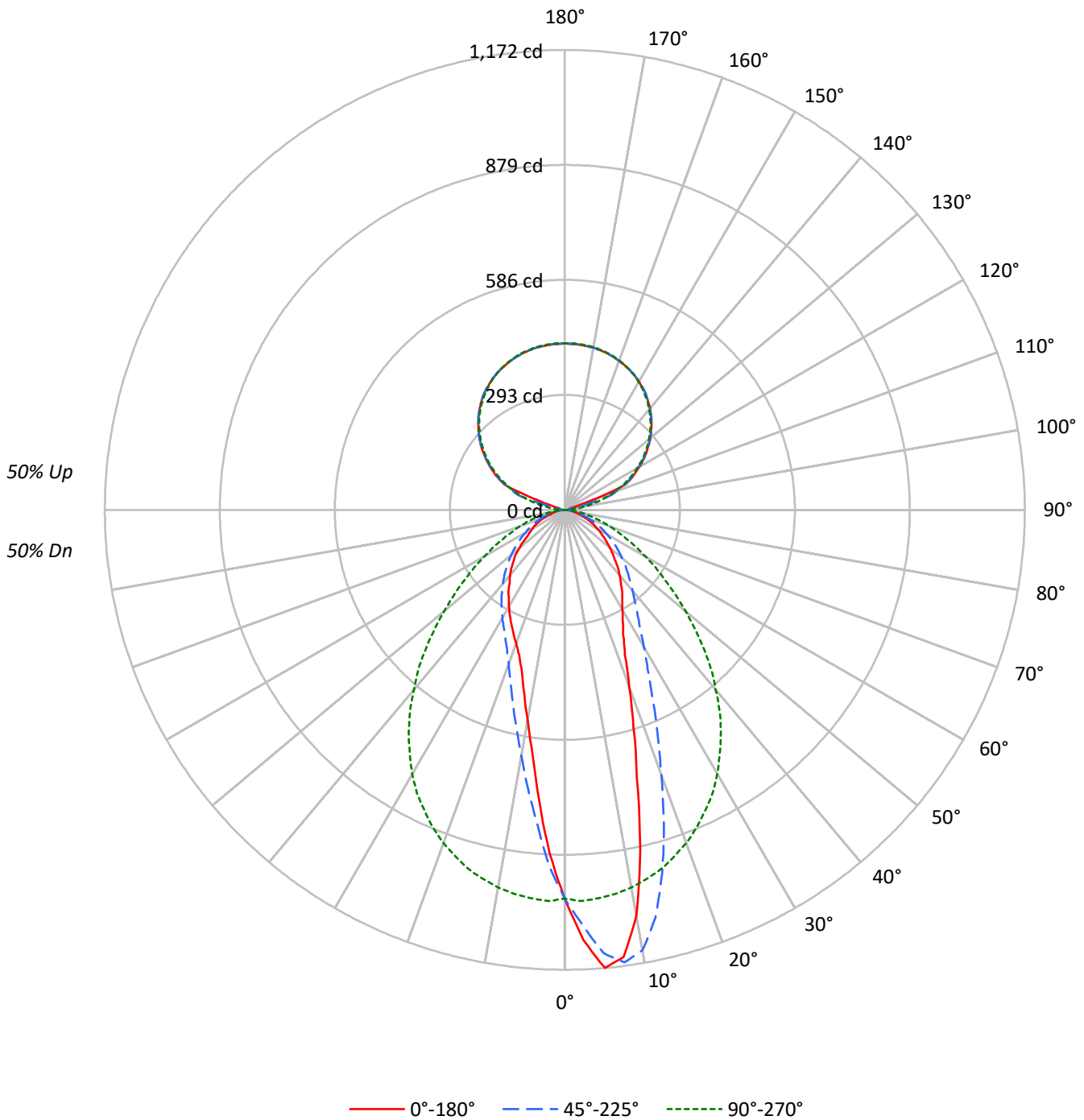
Test Method: LM-79-2019  
Report Number: P832110  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S340D365U940-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2607.2 lumens  
Efficiency: N/A  
Efficacy: 116.4 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: P832110  
CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

### Luminous Intensity Polar Plot





TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |    |    |    |   |
| 1   | 99  | 95  | 91  | 88  | 91 | 88 | 85 | 82 | 74 | 72 | 70 | 62 | 61 | 59 | 51 | 50 | 49 | 44 |    |    |    |   |
| 2   | 91  | 84  | 78  | 73  | 83 | 78 | 73 | 68 | 66 | 63 | 60 | 56 | 53 | 51 | 46 | 44 | 43 | 38 |    |    |    |   |
| 3   | 83  | 74  | 67  | 62  | 77 | 69 | 63 | 58 | 59 | 55 | 51 | 50 | 47 | 44 | 42 | 39 | 37 | 34 |    |    |    |   |
| 4   | 77  | 66  | 59  | 53  | 71 | 62 | 55 | 50 | 53 | 48 | 44 | 45 | 42 | 39 | 38 | 35 | 33 | 30 |    |    |    |   |
| 5   | 71  | 60  | 52  | 46  | 65 | 56 | 49 | 44 | 48 | 43 | 39 | 41 | 37 | 34 | 35 | 32 | 30 | 26 |    |    |    |   |
| 6   | 66  | 54  | 46  | 41  | 61 | 51 | 44 | 39 | 44 | 39 | 35 | 38 | 34 | 31 | 32 | 29 | 27 | 24 |    |    |    |   |
| 7   | 61  | 49  | 42  | 36  | 56 | 46 | 39 | 35 | 40 | 35 | 31 | 35 | 31 | 28 | 30 | 26 | 24 | 22 |    |    |    |   |
| 8   | 57  | 45  | 38  | 33  | 53 | 42 | 36 | 31 | 37 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 22 | 20 |    |    |    |   |
| 9   | 53  | 41  | 34  | 29  | 49 | 39 | 33 | 28 | 34 | 29 | 25 | 30 | 26 | 23 | 26 | 23 | 20 | 18 |    |    |    |   |
| 10  | 50  | 38  | 31  | 27  | 46 | 36 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 19 | 17 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 10663 | 10663 | 10663 | 10663 | 10663 |
| 5°  | 12661 | 12257 | 10730 | 8674  | 8053  |
| 10° | 11471 | 12450 | 10676 | 6949  | 5962  |
| 15° | 7899  | 10674 | 10564 | 5680  | 4716  |
| 20° | 5495  | 8219  | 10352 | 4789  | 4145  |
| 25° | 4187  | 6264  | 10043 | 4257  | 3821  |
| 30° | 3644  | 5008  | 9657  | 3952  | 3539  |
| 35° | 3347  | 4225  | 9110  | 3696  | 3282  |
| 40° | 3053  | 3773  | 8396  | 3444  | 3048  |
| 45° | 2757  | 3449  | 7623  | 3206  | 2813  |
| 50° | 2503  | 3183  | 6713  | 2972  | 2524  |
| 55° | 2263  | 2924  | 5838  | 2744  | 2164  |
| 60° | 2028  | 2659  | 5072  | 2493  | 2045  |
| 65° | 1872  | 2358  | 4365  | 2239  | 1936  |
| 70° | 1520  | 2039  | 3808  | 2027  | 1574  |
| 75° | 1335  | 1622  | 3227  | 1680  | 1385  |
| 80° | 1209  | 1370  | 2641  | 1407  | 1308  |
| 85° | 1099  | 1198  | 2001  | 1284  | 1198  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 8044 cd/sqm



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.3   | 3.5       |
| 10°-20°   | 208.9  | 8.0       |
| 20°-30°   | 239.7  | 9.2       |
| 30°-40°   | 236.3  | 9.1       |
| 40°-50°   | 208.4  | 8.0       |
| 50°-60°   | 160.3  | 6.1       |
| 60°-70°   | 105.4  | 4.0       |
| 70°-80°   | 51.2   | 2.0       |
| 80°-90°   | 13.8   | 0.5       |
| 90°-100°  | 15.0   | 0.6       |
| 100°-110° | 72.3   | 2.8       |
| 110°-120° | 177.2  | 6.8       |
| 120°-130° | 224.9  | 8.6       |
| 130°-140° | 240.3  | 9.2       |
| 140°-150° | 224.7  | 8.6       |
| 150°-160° | 181.3  | 7.0       |
| 160°-170° | 117.0  | 4.5       |
| 170°-180° | 40.3   | 1.5       |
| 0°-30°    | 539.0  | 20.7      |
| 0°-40°    | 775.3  | 29.7      |
| 0°-60°    | 1143.9 | 43.9      |
| 0°-90°    | 1314.3 | 50.4      |
| 90°-120°  | 264.4  | 10.1      |
| 90°-150°  | 954.4  | 36.6      |
| 90°-180°  | 1293.0 | 49.6      |
| 0°-180°   | 2607.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90° | 135° | 180° | Flux |
|------|------|------|-----|------|------|------|
| 0°   | 991  | 991  | 991 | 991  | 991  |      |
| 5°   | 1172 | 1134 | 993 | 803  | 745  | 107  |
| 15°  | 709  | 958  | 948 | 510  | 423  | 200  |
| 25°  | 352  | 527  | 846 | 358  | 322  | 167  |
| 35°  | 255  | 322  | 693 | 281  | 250  | 159  |
| 45°  | 181  | 227  | 501 | 211  | 185  | 141  |
| 55°  | 121  | 156  | 311 | 146  | 115  | 108  |
| 65°  | 74   | 93   | 171 | 88   | 76   | 72   |
| 75°  | 32   | 39   | 78  | 40   | 33   | 35   |
| 85°  | 9    | 10   | 16  | 10   | 10   | 9    |
| 90°  | 10   | 8    | 0   | 8    | 10   | 5    |
| 95°  | 12   | 10   | 19  | 10   | 12   | 10   |
| 105° | 14   | 69   | 94  | 69   | 14   | 29   |
| 115° | 185  | 181  | 176 | 181  | 185  | 174  |
| 125° | 253  | 252  | 248 | 252  | 253  | 226  |
| 135° | 312  | 312  | 309 | 312  | 312  | 241  |
| 145° | 360  | 360  | 357 | 360  | 360  | 225  |
| 155° | 392  | 393  | 393 | 393  | 392  | 181  |
| 165° | 413  | 413  | 414 | 413  | 413  | 117  |
| 175° | 423  | 423  | 424 | 423  | 423  | 40   |
| 180° | 424  | 424  | 424 | 424  | 424  |      |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  |
| 2.5°   | 1097.9 | 1094.4 | 1090.9 | 1089.9 | 1088.9 | 1085.7 | 1082.4 | 1075.1 | 1067.8 | 1060.3 | 1052.8 |
| 5°     | 1171.8 | 1172.2 | 1172.6 | 1171.6 | 1170.6 | 1166.3 | 1162.0 | 1153.1 | 1144.2 | 1134.4 | 1124.7 |
| 7.5°   | 1149.0 | 1155.5 | 1162.0 | 1163.2 | 1164.5 | 1167.7 | 1171.0 | 1168.9 | 1166.9 | 1163.2 | 1159.6 |
| 10°    | 1049.5 | 1049.1 | 1048.7 | 1056.0 | 1063.3 | 1085.1 | 1106.8 | 1118.0 | 1129.1 | 1139.1 | 1149.0 |
| 12.5°  | 887.1  | 887.7  | 888.3  | 912.2  | 936.2  | 956.7  | 977.2  | 1005.7 | 1034.1 | 1064.8 | 1095.4 |
| 15°    | 708.8  | 718.7  | 728.7  | 750.0  | 771.3  | 802.2  | 833.0  | 871.2  | 909.4  | 957.9  | 1006.5 |
| 17.5°  | 582.0  | 586.3  | 590.6  | 611.1  | 631.6  | 660.8  | 690.1  | 733.3  | 776.6  | 839.1  | 901.7  |
| 20°    | 479.7  | 483.5  | 487.4  | 502.2  | 517.0  | 545.1  | 573.1  | 614.3  | 655.5  | 717.5  | 779.4  |
| 22.5°  | 400.5  | 408.0  | 415.5  | 425.5  | 435.4  | 455.7  | 476.0  | 518.1  | 560.1  | 616.6  | 673.0  |
| 25°    | 352.5  | 356.0  | 359.5  | 368.0  | 376.5  | 396.0  | 415.5  | 443.3  | 471.1  | 527.4  | 583.7  |
| 27.5°  | 320.1  | 321.1  | 322.1  | 328.4  | 334.7  | 347.3  | 359.9  | 385.6  | 411.4  | 457.7  | 504.0  |
| 30°    | 293.2  | 295.1  | 296.9  | 301.8  | 306.7  | 315.8  | 324.9  | 343.2  | 361.5  | 402.9  | 444.3  |
| 32.5°  | 272.5  | 273.5  | 274.6  | 278.6  | 282.7  | 289.4  | 296.1  | 310.5  | 324.9  | 356.6  | 388.3  |
| 35°    | 254.7  | 254.9  | 255.1  | 258.1  | 261.2  | 267.7  | 274.2  | 286.1  | 298.1  | 321.5  | 344.8  |
| 37.5°  | 234.4  | 235.8  | 237.2  | 239.4  | 241.7  | 247.4  | 253.0  | 262.8  | 272.5  | 291.8  | 311.1  |
| 40°    | 217.3  | 218.5  | 219.7  | 222.4  | 225.0  | 229.5  | 233.9  | 242.9  | 251.8  | 268.5  | 285.1  |
| 42.5°  | 200.2  | 201.0  | 201.9  | 204.5  | 207.1  | 212.6  | 218.1  | 225.2  | 232.3  | 246.1  | 259.9  |
| 45°    | 181.1  | 183.2  | 185.2  | 188.1  | 190.9  | 195.6  | 200.2  | 207.5  | 214.9  | 226.6  | 238.4  |
| 47.5°  | 165.3  | 166.3  | 167.3  | 169.8  | 172.2  | 177.9  | 183.6  | 190.1  | 196.6  | 207.5  | 218.5  |
| 50°    | 149.5  | 149.9  | 150.3  | 152.5  | 154.7  | 159.8  | 164.9  | 172.4  | 179.9  | 190.1  | 200.2  |
| 52.5°  | 134.4  | 135.5  | 136.5  | 138.7  | 140.9  | 144.4  | 147.8  | 155.6  | 163.3  | 173.2  | 183.2  |
| 55°    | 120.6  | 121.2  | 121.8  | 123.5  | 125.1  | 129.2  | 133.2  | 139.9  | 146.6  | 155.8  | 164.9  |
| 57.5°  | 107.6  | 108.4  | 109.3  | 110.5  | 111.7  | 115.3  | 119.0  | 124.9  | 130.8  | 139.9  | 149.1  |
| 60°    | 94.2   | 95.2   | 96.3   | 97.7   | 99.1   | 101.9  | 104.8  | 110.1  | 115.3  | 123.5  | 131.6  |
| 62.5°  | 84.5   | 84.7   | 84.9   | 86.1   | 87.3   | 89.4   | 91.4   | 95.7   | 99.9   | 108.0  | 116.2  |
| 65°    | 73.5   | 74.1   | 74.7   | 75.3   | 76.0   | 77.6   | 79.2   | 82.9   | 86.5   | 92.6   | 98.7   |
| 67.5°  | 62.1   | 62.8   | 63.4   | 64.4   | 65.4   | 66.8   | 68.2   | 70.7   | 73.1   | 78.8   | 84.5   |
| 70°    | 48.3   | 48.3   | 48.3   | 50.0   | 51.6   | 54.0   | 56.5   | 58.3   | 60.1   | 64.8   | 69.5   |
| 72.5°  | 39.4   | 39.6   | 39.8   | 40.0   | 40.2   | 41.6   | 43.1   | 46.1   | 49.1   | 52.0   | 54.8   |
| 75°    | 32.1   | 32.3   | 32.5   | 32.7   | 32.9   | 33.3   | 33.7   | 34.7   | 35.7   | 39.0   | 42.2   |
| 77.5°  | 25.6   | 25.8   | 26.0   | 26.2   | 26.4   | 26.8   | 27.2   | 27.6   | 28.0   | 29.2   | 30.5   |
| 80°    | 19.5   | 19.7   | 19.9   | 20.1   | 20.3   | 20.5   | 20.7   | 21.1   | 21.5   | 22.1   | 22.7   |
| 82.5°  | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.6   | 15.0   | 15.0   | 15.0   | 15.4   | 15.8   |
| 85°    | 8.9    | 8.9    | 8.9    | 9.1    | 9.3    | 9.3    | 9.3    | 9.5    | 9.7    | 9.7    | 9.7    |
| 87.5°  | 4.1    | 3.9    | 3.7    | 3.9    | 4.1    | 4.1    | 4.1    | 4.3    | 4.5    | 4.5    | 4.5    |
| 90°    | 9.5    | 9.3    | 9.2    | 9.0    | 8.9    | 8.7    | 8.4    | 8.1    | 7.8    | 7.6    | 6.7    |
| 92.5°  | 10.7   | 10.6   | 10.6   | 10.5   | 10.4   | 10.2   | 9.7    | 9.2    | 8.7    | 8.2    | 7.6    |
| 95°    | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 11.7   | 11.2   | 10.7   | 10.3   | 9.8    | 9.0    |
| 97.5°  | 12.9   | 12.8   | 12.8   | 12.7   | 12.6   | 12.3   | 11.8   | 11.2   | 10.6   | 10.1   | 13.7   |
| 100°   | 13.2   | 13.2   | 13.1   | 13.0   | 13.0   | 12.6   | 12.1   | 11.5   | 11.0   | 10.4   | 21.3   |
| 102.5° | 13.5   | 13.4   | 13.3   | 13.1   | 13.0   | 14.1   | 16.4   | 18.7   | 21.0   | 23.3   | 35.5   |
| 105°   | 13.9   | 13.7   | 13.6   | 13.4   | 13.3   | 19.4   | 31.8   | 44.2   | 56.6   | 69.0   | 75.3   |
| 107.5° | 32.8   | 41.9   | 51.1   | 60.3   | 69.5   | 79.4   | 90.2   | 101.0  | 111.8  | 122.6  | 121.5  |
| 110°   | 86.7   | 96.7   | 106.7  | 116.7  | 126.7  | 132.9  | 135.2  | 137.5  | 139.8  | 142.1  | 141.3  |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 164.2 | 164.3 | 164.4 | 164.6 | 164.7 | 164.5 | 163.9 | 163.2 | 162.6 | 162.0 | 161.2 |
| 115°   | 185.3 | 185.0 | 184.7 | 184.4 | 184.2 | 183.7 | 183.0 | 182.3 | 181.6 | 180.9 | 180.2 |
| 117.5° | 202.3 | 202.2 | 202.2 | 202.1 | 202.0 | 201.7 | 201.1 | 200.6 | 200.0 | 199.5 | 199.1 |
| 120°   | 219.9 | 219.9 | 219.9 | 219.9 | 219.9 | 219.7 | 219.1 | 218.5 | 218.0 | 217.4 | 217.2 |
| 122.5° | 237.3 | 237.2 | 237.1 | 237.1 | 237.0 | 236.8 | 236.4 | 236.1 | 235.7 | 235.4 | 235.1 |
| 125°   | 253.3 | 253.2 | 253.1 | 252.9 | 252.8 | 252.6 | 252.5 | 252.4 | 252.2 | 252.1 | 251.8 |
| 127.5° | 269.1 | 269.2 | 269.4 | 269.5 | 269.7 | 269.6 | 269.4 | 269.2 | 269.0 | 268.8 | 268.4 |
| 130°   | 284.2 | 284.4 | 284.5 | 284.6 | 284.8 | 284.7 | 284.4 | 284.2 | 283.9 | 283.6 | 283.3 |
| 132.5° | 298.1 | 298.3 | 298.5 | 298.7 | 298.9 | 298.9 | 298.6 | 298.3 | 298.1 | 297.8 | 297.6 |
| 135°   | 312.3 | 312.5 | 312.7 | 312.9 | 313.1 | 313.1 | 312.9 | 312.7 | 312.5 | 312.3 | 312.0 |
| 137.5° | 325.8 | 326.0 | 326.1 | 326.2 | 326.4 | 326.3 | 325.9 | 325.6 | 325.2 | 324.9 | 324.7 |
| 140°   | 337.8 | 337.9 | 338.1 | 338.2 | 338.4 | 338.3 | 338.0 | 337.7 | 337.4 | 337.2 | 337.0 |
| 142.5° | 348.8 | 349.0 | 349.2 | 349.4 | 349.7 | 349.7 | 349.4 | 349.2 | 349.0 | 348.8 | 348.6 |
| 145°   | 360.2 | 360.2 | 360.2 | 360.2 | 360.2 | 360.1 | 360.0 | 359.8 | 359.7 | 359.5 | 359.4 |
| 147.5° | 368.4 | 368.7 | 369.1 | 369.4 | 369.8 | 369.9 | 369.7 | 369.6 | 369.4 | 369.3 | 369.2 |
| 150°   | 377.8 | 378.0 | 378.2 | 378.4 | 378.6 | 378.7 | 378.5 | 378.4 | 378.3 | 378.1 | 378.0 |
| 152.5° | 385.4 | 385.7 | 386.1 | 386.4 | 386.8 | 386.8 | 386.5 | 386.2 | 386.0 | 385.7 | 385.6 |
| 155°   | 392.3 | 392.7 | 393.1 | 393.6 | 394.0 | 394.0 | 393.7 | 393.3 | 393.0 | 392.6 | 392.5 |
| 157.5° | 398.3 | 398.9 | 399.4 | 400.0 | 400.5 | 400.6 | 400.2 | 399.8 | 399.3 | 398.9 | 399.0 |
| 160°   | 404.0 | 404.5 | 404.9 | 405.4 | 405.9 | 406.0 | 405.5 | 405.1 | 404.7 | 404.3 | 404.3 |
| 162.5° | 409.3 | 409.7 | 410.2 | 410.6 | 411.0 | 411.0 | 410.5 | 410.0 | 409.5 | 409.0 | 409.1 |
| 165°   | 413.4 | 413.9 | 414.4 | 414.9 | 415.4 | 415.3 | 414.8 | 414.2 | 413.7 | 413.1 | 413.2 |
| 167.5° | 416.6 | 417.1 | 417.7 | 418.2 | 418.8 | 418.8 | 418.2 | 417.7 | 417.1 | 416.6 | 416.6 |
| 170°   | 419.4 | 420.0 | 420.5 | 421.1 | 421.6 | 421.6 | 421.1 | 420.5 | 420.0 | 419.4 | 419.4 |
| 172.5° | 421.0 | 421.6 | 422.2 | 422.9 | 423.5 | 423.5 | 423.0 | 422.4 | 421.9 | 421.3 | 421.2 |
| 175°   | 422.6 | 423.1 | 423.7 | 424.2 | 424.8 | 424.8 | 424.3 | 423.8 | 423.4 | 422.9 | 422.8 |
| 177.5° | 422.9 | 423.6 | 424.3 | 425.0 | 425.7 | 425.7 | 425.2 | 424.6 | 424.1 | 423.5 | 423.4 |
| 180°   | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°   | 95°   | 100°  | 105°  |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°     | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6  | 990.6 | 990.6 | 990.6 | 990.6 |
| 2.5°   | 1051.8 | 1050.7 | 1041.0 | 1031.2 | 1021.7 | 1012.2 | 1005.0 | 997.9 | 986.0 | 974.0 | 966.5 |
| 5°     | 1116.9 | 1109.2 | 1093.8 | 1078.4 | 1055.2 | 1032.1 | 1012.6 | 993.1 | 968.3 | 943.5 | 922.8 |
| 7.5°   | 1153.3 | 1147.0 | 1128.3 | 1109.6 | 1079.0 | 1048.3 | 1017.8 | 987.4 | 950.8 | 914.3 | 883.0 |
| 10°    | 1154.3 | 1159.6 | 1144.2 | 1128.7 | 1094.2 | 1059.7 | 1018.2 | 976.8 | 927.7 | 878.5 | 838.1 |
| 12.5°  | 1118.2 | 1140.9 | 1137.7 | 1134.4 | 1099.3 | 1064.1 | 1013.8 | 963.4 | 903.1 | 842.8 | 792.2 |
| 15°    | 1050.5 | 1094.6 | 1107.6 | 1120.6 | 1091.6 | 1062.5 | 1005.2 | 948.0 | 877.1 | 806.2 | 748.1 |
| 17.5°  | 963.4  | 1025.1 | 1059.5 | 1093.8 | 1072.7 | 1051.6 | 988.8  | 926.0 | 846.2 | 766.4 | 703.3 |
| 20°    | 860.2  | 941.1  | 994.9  | 1048.7 | 1041.0 | 1033.3 | 968.5  | 903.7 | 817.6 | 731.5 | 663.1 |
| 22.5°  | 758.3  | 843.6  | 917.9  | 992.3  | 1000.2 | 1008.1 | 942.7  | 877.3 | 783.1 | 688.8 | 619.2 |
| 25°    | 670.4  | 757.1  | 845.6  | 934.2  | 952.0  | 969.9  | 907.8  | 845.6 | 747.9 | 650.3 | 581.0 |
| 27.5°  | 586.5  | 668.9  | 766.4  | 863.9  | 896.4  | 928.9  | 872.0  | 815.2 | 713.4 | 611.7 | 542.6 |
| 30°    | 518.1  | 591.8  | 691.3  | 790.8  | 836.1  | 881.4  | 829.2  | 777.0 | 676.1 | 575.1 | 507.5 |
| 32.5°  | 454.3  | 520.3  | 620.2  | 720.1  | 772.7  | 825.3  | 780.2  | 735.2 | 638.1 | 541.0 | 474.2 |
| 35°    | 403.9  | 463.0  | 556.2  | 649.5  | 708.3  | 767.2  | 730.3  | 693.3 | 598.5 | 503.6 | 440.5 |
| 37.5°  | 360.7  | 410.2  | 497.7  | 585.3  | 647.8  | 710.4  | 679.5  | 648.6 | 559.5 | 470.3 | 410.6 |
| 40°    | 324.9  | 364.7  | 446.2  | 527.6  | 588.9  | 650.3  | 623.9  | 597.5 | 517.7 | 437.8 | 382.0 |
| 42.5°  | 294.3  | 328.6  | 401.7  | 474.8  | 531.1  | 587.3  | 569.8  | 552.4 | 480.1 | 407.8 | 356.0 |
| 45°    | 267.3  | 296.1  | 360.5  | 424.8  | 476.6  | 528.4  | 514.6  | 500.8 | 438.5 | 376.1 | 328.6 |
| 47.5°  | 243.3  | 268.1  | 325.5  | 383.0  | 429.5  | 476.0  | 463.2  | 450.4 | 398.8 | 347.3 | 304.0 |
| 50°    | 221.4  | 242.5  | 290.4  | 338.3  | 380.2  | 422.0  | 411.4  | 400.9 | 358.2 | 315.6 | 278.2 |
| 52.5°  | 200.6  | 218.1  | 261.2  | 304.2  | 337.9  | 371.6  | 363.5  | 355.4 | 322.5 | 289.6 | 255.7 |
| 55°    | 180.9  | 197.0  | 233.3  | 269.7  | 298.5  | 327.4  | 319.2  | 311.1 | 285.5 | 259.9 | 230.1 |
| 57.5°  | 163.1  | 177.1  | 206.5  | 236.0  | 258.9  | 281.9  | 278.0  | 274.2 | 252.8 | 231.5 | 206.9 |
| 60°    | 144.2  | 156.8  | 182.2  | 207.5  | 226.0  | 244.5  | 240.0  | 235.6 | 220.3 | 205.1 | 184.0 |
| 62.5°  | 127.3  | 138.5  | 158.8  | 179.1  | 194.1  | 209.2  | 205.9  | 202.7 | 191.1 | 179.5 | 162.1 |
| 65°    | 109.7  | 120.6  | 137.1  | 153.5  | 165.3  | 177.1  | 174.2  | 171.4 | 162.7 | 153.9 | 139.9 |
| 67.5°  | 93.6   | 102.8  | 117.0  | 131.2  | 139.1  | 147.0  | 145.4  | 143.8 | 137.1 | 130.4 | 119.4 |
| 70°    | 77.4   | 85.3   | 97.1   | 108.9  | 114.3  | 119.8  | 120.4  | 121.0 | 114.9 | 108.9 | 100.7 |
| 72.5°  | 61.1   | 67.4   | 78.4   | 89.4   | 93.6   | 97.9   | 97.7   | 97.5  | 93.8  | 90.2  | 82.9  |
| 75°    | 46.9   | 51.6   | 60.1   | 68.6   | 72.3   | 76.0   | 76.8   | 77.6  | 74.1  | 70.7  | 66.6  |
| 77.5°  | 33.7   | 37.0   | 43.5   | 50.0   | 54.0   | 58.1   | 58.5   | 58.9  | 57.3  | 55.6  | 51.8  |
| 80°    | 23.8   | 24.8   | 28.8   | 32.9   | 37.2   | 41.4   | 42.0   | 42.6  | 41.0  | 39.4  | 37.0  |
| 82.5°  | 16.4   | 17.1   | 18.5   | 19.9   | 23.4   | 26.8   | 27.6   | 28.4  | 27.6  | 26.8  | 24.2  |
| 85°    | 10.0   | 10.2   | 10.8   | 11.4   | 13.0   | 14.6   | 15.4   | 16.2  | 15.8  | 15.4  | 14.0  |
| 87.5°  | 4.5    | 4.5    | 4.7    | 4.9    | 5.3    | 5.7    | 6.7    | 7.7   | 7.1   | 6.5   | 5.9   |
| 90°    | 5.7    | 4.8    | 3.9    | 3.1    | 2.4    | 1.7    | 1.0    | 0.3   | 1.0   | 1.7   | 2.4   |
| 92.5°  | 6.9    | 6.3    | 5.7    | 5.6    | 6.0    | 6.4    | 6.8    | 7.2   | 6.8   | 6.4   | 6.0   |
| 95°    | 8.2    | 7.5    | 6.7    | 7.7    | 10.6   | 13.5   | 16.4   | 19.2  | 16.4  | 13.5  | 10.6  |
| 97.5°  | 17.2   | 20.8   | 24.4   | 27.1   | 29.1   | 31.1   | 33.0   | 35.0  | 33.0  | 31.1  | 29.1  |
| 100°   | 32.2   | 43.2   | 54.1   | 58.9   | 57.5   | 56.1   | 54.7   | 53.3  | 54.7  | 56.1  | 57.5  |
| 102.5° | 47.7   | 59.9   | 72.1   | 77.7   | 76.8   | 75.9   | 75.0   | 74.0  | 75.0  | 75.9  | 76.8  |
| 105°   | 81.6   | 87.9   | 94.2   | 97.0   | 96.2   | 95.4   | 94.7   | 93.9  | 94.7  | 95.4  | 96.2  |
| 107.5° | 120.5  | 119.4  | 118.4  | 117.5  | 116.9  | 116.3  | 115.6  | 115.0 | 115.6 | 116.3 | 116.9 |
| 110°   | 140.6  | 139.8  | 139.0  | 138.4  | 137.8  | 137.2  | 136.7  | 136.1 | 136.7 | 137.2 | 137.8 |





TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 160.4 | 159.7 | 158.9 | 158.3 | 157.8 | 157.3 | 156.8 | 156.3 | 156.8 | 157.3 | 157.8 |
| 115°   | 179.6 | 179.0 | 178.3 | 177.8 | 177.4 | 177.0 | 176.6 | 176.1 | 176.6 | 177.0 | 177.4 |
| 117.5° | 198.8 | 198.4 | 198.1 | 197.6 | 197.1 | 196.7 | 196.2 | 195.7 | 196.2 | 196.7 | 197.1 |
| 120°   | 217.0 | 216.8 | 216.6 | 216.2 | 215.5 | 214.9 | 214.3 | 213.6 | 214.3 | 214.9 | 215.5 |
| 122.5° | 234.8 | 234.5 | 234.3 | 233.9 | 233.4 | 232.9 | 232.4 | 231.9 | 232.4 | 232.9 | 233.4 |
| 125°   | 251.5 | 251.2 | 251.0 | 250.5 | 250.0 | 249.4 | 248.9 | 248.3 | 248.9 | 249.4 | 250.0 |
| 127.5° | 268.1 | 267.7 | 267.4 | 266.9 | 266.4 | 265.8 | 265.2 | 264.7 | 265.2 | 265.8 | 266.4 |
| 130°   | 283.0 | 282.8 | 282.5 | 282.1 | 281.5 | 280.9 | 280.4 | 279.8 | 280.4 | 280.9 | 281.5 |
| 132.5° | 297.4 | 297.1 | 296.9 | 296.5 | 296.0 | 295.4 | 294.9 | 294.3 | 294.9 | 295.4 | 296.0 |
| 135°   | 311.7 | 311.4 | 311.1 | 310.8 | 310.4 | 310.0 | 309.5 | 309.1 | 309.5 | 310.0 | 310.4 |
| 137.5° | 324.6 | 324.5 | 324.3 | 324.0 | 323.4 | 322.8 | 322.3 | 321.7 | 322.3 | 322.8 | 323.4 |
| 140°   | 336.7 | 336.5 | 336.3 | 336.0 | 335.6 | 335.2 | 334.7 | 334.3 | 334.7 | 335.2 | 335.6 |
| 142.5° | 348.4 | 348.2 | 348.0 | 347.7 | 347.2 | 346.8 | 346.4 | 346.0 | 346.4 | 346.8 | 347.2 |
| 145°   | 359.3 | 359.1 | 359.0 | 358.7 | 358.2 | 357.7 | 357.2 | 356.7 | 357.2 | 357.7 | 358.2 |
| 147.5° | 369.0 | 368.9 | 368.7 | 368.5 | 368.1 | 367.8 | 367.4 | 367.1 | 367.4 | 367.8 | 368.1 |
| 150°   | 377.8 | 377.7 | 377.6 | 377.4 | 377.2 | 377.0 | 376.8 | 376.5 | 376.8 | 377.0 | 377.2 |
| 152.5° | 385.5 | 385.5 | 385.4 | 385.3 | 385.3 | 385.2 | 385.1 | 385.1 | 385.1 | 385.2 | 385.3 |
| 155°   | 392.5 | 392.4 | 392.3 | 392.4 | 392.5 | 392.7 | 392.8 | 392.9 | 392.8 | 392.7 | 392.5 |
| 157.5° | 399.1 | 399.1 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 | 399.2 |
| 160°   | 404.4 | 404.5 | 404.6 | 404.6 | 404.7 | 404.8 | 404.8 | 404.9 | 404.8 | 404.8 | 404.7 |
| 162.5° | 409.1 | 409.2 | 409.3 | 409.4 | 409.6 | 409.8 | 410.1 | 410.3 | 410.1 | 409.8 | 409.6 |
| 165°   | 413.2 | 413.3 | 413.4 | 413.5 | 413.7 | 413.9 | 414.2 | 414.4 | 414.2 | 413.9 | 413.7 |
| 167.5° | 416.6 | 416.6 | 416.6 | 416.7 | 417.0 | 417.3 | 417.5 | 417.8 | 417.5 | 417.3 | 417.0 |
| 170°   | 419.4 | 419.4 | 419.4 | 419.5 | 419.8 | 420.1 | 420.4 | 420.7 | 420.4 | 420.1 | 419.8 |
| 172.5° | 421.2 | 421.1 | 421.0 | 421.2 | 421.5 | 421.9 | 422.2 | 422.6 | 422.2 | 421.9 | 421.5 |
| 175°   | 422.7 | 422.7 | 422.6 | 422.7 | 423.1 | 423.4 | 423.8 | 424.1 | 423.8 | 423.4 | 423.1 |
| 177.5° | 423.4 | 423.3 | 423.2 | 423.4 | 423.7 | 424.1 | 424.4 | 424.8 | 424.4 | 424.1 | 423.7 |
| 180°   | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 | 990.6 |
| 2.5°   | 958.9 | 947.4 | 935.8 | 927.5 | 919.1 | 908.8 | 898.4 | 898.0 | 897.6 | 889.9 | 882.2 |
| 5°     | 902.1 | 882.0 | 861.9 | 842.2 | 822.5 | 802.8 | 783.1 | 778.6 | 774.1 | 767.4 | 760.7 |
| 7.5°   | 851.7 | 819.6 | 787.5 | 762.4 | 737.2 | 717.5 | 697.8 | 684.4 | 671.0 | 660.6 | 650.3 |
| 10°    | 797.7 | 757.9 | 718.1 | 687.6 | 657.2 | 635.8 | 614.5 | 599.1 | 583.7 | 576.3 | 569.0 |
| 12.5°  | 741.6 | 698.4 | 655.1 | 625.3 | 595.4 | 569.8 | 544.3 | 530.2 | 516.2 | 506.1 | 495.9 |
| 15°    | 690.1 | 643.6 | 597.1 | 565.4 | 533.7 | 509.7 | 485.8 | 471.8 | 457.7 | 447.6 | 437.4 |
| 17.5°  | 640.1 | 593.2 | 546.3 | 514.2 | 482.1 | 460.4 | 438.7 | 425.0 | 411.4 | 405.1 | 398.8 |
| 20°    | 594.6 | 547.3 | 500.0 | 469.7 | 439.5 | 418.1 | 396.8 | 389.5 | 382.2 | 376.3 | 370.4 |
| 22.5°  | 549.5 | 504.0 | 458.6 | 429.5 | 400.5 | 385.0 | 369.6 | 363.7 | 357.8 | 353.4 | 348.9 |
| 25°    | 511.8 | 466.5 | 421.2 | 395.8 | 370.4 | 358.4 | 346.5 | 342.6 | 338.7 | 334.3 | 329.8 |
| 27.5°  | 473.6 | 430.5 | 387.5 | 367.2 | 346.9 | 337.1 | 327.4 | 322.5 | 317.6 | 314.0 | 310.3 |
| 30°    | 439.9 | 400.1 | 360.3 | 343.4 | 326.6 | 318.0 | 309.5 | 304.2 | 298.9 | 295.5 | 292.0 |
| 32.5°  | 407.4 | 372.0 | 336.7 | 322.3 | 307.9 | 299.5 | 291.2 | 286.1 | 281.1 | 277.0 | 272.9 |
| 35°    | 377.3 | 346.7 | 316.0 | 302.8 | 289.6 | 281.3 | 272.9 | 267.9 | 262.8 | 258.7 | 254.7 |
| 37.5°  | 350.9 | 323.1 | 295.3 | 282.9 | 270.5 | 263.2 | 255.9 | 250.6 | 245.3 | 241.1 | 236.8 |
| 40°    | 326.1 | 301.6 | 277.0 | 265.0 | 253.0 | 245.1 | 237.2 | 232.5 | 227.9 | 224.0 | 220.1 |
| 42.5°  | 304.2 | 281.7 | 259.1 | 247.4 | 235.6 | 228.1 | 220.5 | 215.1 | 209.6 | 207.3 | 205.1 |
| 45°    | 281.1 | 261.2 | 241.3 | 229.9 | 218.5 | 210.6 | 202.7 | 198.0 | 193.3 | 191.3 | 189.3 |
| 47.5°  | 260.8 | 242.3 | 223.8 | 212.6 | 201.5 | 194.3 | 187.2 | 183.6 | 179.9 | 177.1 | 174.2 |
| 50°    | 240.9 | 223.0 | 205.1 | 194.3 | 183.6 | 177.5 | 171.4 | 166.9 | 162.5 | 160.4 | 158.4 |
| 52.5°  | 221.8 | 205.5 | 189.3 | 178.3 | 167.3 | 161.4 | 155.6 | 151.7 | 147.8 | 143.6 | 139.3 |
| 55°    | 200.2 | 186.0 | 171.8 | 162.1 | 152.3 | 146.2 | 140.1 | 135.7 | 131.2 | 126.7 | 122.3 |
| 57.5°  | 182.4 | 168.4 | 154.3 | 145.6 | 136.9 | 131.0 | 125.1 | 120.2 | 115.3 | 111.7 | 108.0 |
| 60°    | 162.9 | 150.7 | 138.5 | 130.0 | 121.4 | 115.8 | 110.1 | 105.4 | 100.7 | 98.9  | 97.1  |
| 62.5°  | 144.6 | 133.2 | 121.8 | 114.3 | 106.8 | 101.3 | 95.9  | 92.8  | 89.8  | 88.5  | 87.3  |
| 65°    | 125.9 | 116.2 | 106.4 | 99.5  | 92.6  | 87.9  | 83.3  | 81.8  | 80.4  | 79.4  | 78.4  |
| 67.5°  | 108.4 | 100.1 | 91.8  | 85.7  | 79.6  | 76.4  | 73.1  | 71.5  | 69.9  | 68.6  | 67.4  |
| 70°    | 92.6  | 85.3  | 78.0  | 72.7  | 67.4  | 64.4  | 61.3  | 59.9  | 58.5  | 56.3  | 54.0  |
| 72.5°  | 75.5  | 69.9  | 64.2  | 60.1  | 56.1  | 53.4  | 50.8  | 47.9  | 45.1  | 43.1  | 41.0  |
| 75°    | 62.5  | 56.9  | 51.2  | 47.3  | 43.5  | 40.4  | 37.4  | 36.4  | 35.3  | 34.7  | 34.1  |
| 77.5°  | 47.9  | 43.1  | 38.2  | 35.1  | 32.1  | 30.7  | 29.2  | 28.6  | 28.0  | 27.8  | 27.6  |
| 80°    | 34.5  | 30.5  | 26.4  | 24.8  | 23.2  | 22.7  | 22.3  | 21.9  | 21.5  | 21.3  | 21.1  |
| 82.5°  | 21.5  | 19.5  | 17.5  | 17.1  | 16.7  | 16.4  | 16.2  | 16.0  | 15.8  | 15.6  | 15.4  |
| 85°    | 12.6  | 11.8  | 11.0  | 10.8  | 10.6  | 10.4  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  |
| 87.5°  | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 5.1   | 4.9   |
| 90°    | 3.1   | 3.9   | 4.8   | 5.7   | 6.7   | 7.6   | 7.8   | 8.1   | 8.4   | 8.7   | 8.9   |
| 92.5°  | 5.6   | 5.7   | 6.3   | 6.9   | 7.6   | 8.2   | 8.7   | 9.2   | 9.7   | 10.2  | 10.4  |
| 95°    | 7.7   | 6.7   | 7.5   | 8.2   | 9.0   | 9.8   | 10.3  | 10.7  | 11.2  | 11.7  | 12.0  |
| 97.5°  | 27.1  | 24.4  | 20.8  | 17.2  | 13.7  | 10.1  | 10.6  | 11.2  | 11.8  | 12.3  | 12.6  |
| 100°   | 58.9  | 54.1  | 43.2  | 32.2  | 21.3  | 10.4  | 11.0  | 11.5  | 12.1  | 12.6  | 13.0  |
| 102.5° | 77.7  | 72.1  | 59.9  | 47.7  | 35.5  | 23.3  | 21.0  | 18.7  | 16.4  | 14.1  | 13.0  |
| 105°   | 97.0  | 94.2  | 87.9  | 81.6  | 75.3  | 69.0  | 56.6  | 44.2  | 31.8  | 19.4  | 13.3  |
| 107.5° | 117.5 | 118.4 | 119.4 | 120.5 | 121.5 | 122.6 | 111.8 | 101.0 | 90.2  | 79.4  | 69.5  |
| 110°   | 138.4 | 139.0 | 139.8 | 140.6 | 141.3 | 142.1 | 139.8 | 137.5 | 135.2 | 132.9 | 126.7 |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 158.3 | 158.9 | 159.7 | 160.4 | 161.2 | 162.0 | 162.6 | 163.2 | 163.9 | 164.5 | 164.7 |
| 115°   | 177.8 | 178.3 | 179.0 | 179.6 | 180.2 | 180.9 | 181.6 | 182.3 | 183.0 | 183.7 | 184.2 |
| 117.5° | 197.6 | 198.1 | 198.4 | 198.8 | 199.1 | 199.5 | 200.0 | 200.6 | 201.1 | 201.7 | 202.0 |
| 120°   | 216.2 | 216.6 | 216.8 | 217.0 | 217.2 | 217.4 | 218.0 | 218.5 | 219.1 | 219.7 | 219.9 |
| 122.5° | 233.9 | 234.3 | 234.5 | 234.8 | 235.1 | 235.4 | 235.7 | 236.1 | 236.4 | 236.8 | 237.0 |
| 125°   | 250.5 | 251.0 | 251.2 | 251.5 | 251.8 | 252.1 | 252.2 | 252.4 | 252.5 | 252.6 | 252.8 |
| 127.5° | 266.9 | 267.4 | 267.7 | 268.1 | 268.4 | 268.8 | 269.0 | 269.2 | 269.4 | 269.6 | 269.7 |
| 130°   | 282.1 | 282.5 | 282.8 | 283.0 | 283.3 | 283.6 | 283.9 | 284.2 | 284.4 | 284.7 | 284.8 |
| 132.5° | 296.5 | 296.9 | 297.1 | 297.4 | 297.6 | 297.8 | 298.1 | 298.3 | 298.6 | 298.9 | 298.9 |
| 135°   | 310.8 | 311.1 | 311.4 | 311.7 | 312.0 | 312.3 | 312.5 | 312.7 | 312.9 | 313.1 | 313.1 |
| 137.5° | 324.0 | 324.3 | 324.5 | 324.6 | 324.7 | 324.9 | 325.2 | 325.6 | 325.9 | 326.3 | 326.4 |
| 140°   | 336.0 | 336.3 | 336.5 | 336.7 | 337.0 | 337.2 | 337.4 | 337.7 | 338.0 | 338.3 | 338.4 |
| 142.5° | 347.7 | 348.0 | 348.2 | 348.4 | 348.6 | 348.8 | 349.0 | 349.2 | 349.4 | 349.7 | 349.7 |
| 145°   | 358.7 | 359.0 | 359.1 | 359.3 | 359.4 | 359.5 | 359.7 | 359.8 | 360.0 | 360.1 | 360.2 |
| 147.5° | 368.5 | 368.7 | 368.9 | 369.0 | 369.2 | 369.3 | 369.4 | 369.6 | 369.7 | 369.9 | 369.8 |
| 150°   | 377.4 | 377.6 | 377.7 | 377.8 | 378.0 | 378.1 | 378.3 | 378.4 | 378.5 | 378.7 | 378.6 |
| 152.5° | 385.3 | 385.4 | 385.5 | 385.5 | 385.6 | 385.7 | 386.0 | 386.2 | 386.5 | 386.8 | 386.8 |
| 155°   | 392.4 | 392.3 | 392.4 | 392.5 | 392.5 | 392.6 | 393.0 | 393.3 | 393.7 | 394.0 | 394.0 |
| 157.5° | 399.2 | 399.2 | 399.1 | 399.1 | 399.0 | 398.9 | 399.3 | 399.8 | 400.2 | 400.6 | 400.5 |
| 160°   | 404.6 | 404.6 | 404.5 | 404.4 | 404.3 | 404.3 | 404.7 | 405.1 | 405.5 | 406.0 | 405.9 |
| 162.5° | 409.4 | 409.3 | 409.2 | 409.1 | 409.1 | 409.0 | 409.5 | 410.0 | 410.5 | 411.0 | 411.0 |
| 165°   | 413.5 | 413.4 | 413.3 | 413.2 | 413.2 | 413.1 | 413.7 | 414.2 | 414.8 | 415.3 | 415.4 |
| 167.5° | 416.7 | 416.6 | 416.6 | 416.6 | 416.6 | 416.6 | 417.1 | 417.7 | 418.2 | 418.8 | 418.8 |
| 170°   | 419.5 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 420.0 | 420.5 | 421.1 | 421.6 | 421.6 |
| 172.5° | 421.2 | 421.0 | 421.1 | 421.2 | 421.2 | 421.3 | 421.9 | 422.4 | 423.0 | 423.5 | 423.5 |
| 175°   | 422.7 | 422.6 | 422.7 | 422.7 | 422.8 | 422.9 | 423.4 | 423.8 | 424.3 | 424.8 | 424.8 |
| 177.5° | 423.4 | 423.2 | 423.3 | 423.4 | 423.4 | 423.5 | 424.1 | 424.6 | 425.2 | 425.7 | 425.7 |
| 180°   | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 0°     | 990.6 | 990.6 | 990.6 | 990.6 |
| 2.5°   | 880.2 | 878.1 | 877.3 | 876.5 |
| 5°     | 754.4 | 748.1 | 746.7 | 745.3 |
| 7.5°   | 647.6 | 645.0 | 636.3 | 627.5 |
| 10°    | 560.9 | 552.8 | 549.1 | 545.5 |
| 12.5°  | 488.4 | 480.9 | 479.7 | 478.5 |
| 15°    | 432.2 | 426.9 | 425.0 | 423.2 |
| 17.5°  | 395.2 | 391.5 | 389.3 | 387.1 |
| 20°    | 367.8 | 365.1 | 363.5 | 361.9 |
| 22.5°  | 346.9 | 344.8 | 343.6 | 342.4 |
| 25°    | 326.8 | 323.7 | 322.7 | 321.7 |
| 27.5°  | 307.7 | 305.0 | 304.0 | 303.0 |
| 30°    | 289.8 | 287.6 | 286.1 | 284.7 |
| 32.5°  | 270.3 | 267.7 | 266.8 | 266.0 |
| 35°    | 253.0 | 251.4 | 250.6 | 249.8 |
| 37.5°  | 234.8 | 232.7 | 231.5 | 230.3 |
| 40°    | 219.1 | 218.1 | 217.5 | 216.9 |
| 42.5°  | 203.3 | 201.5 | 201.3 | 201.0 |
| 45°    | 187.4 | 185.6 | 185.2 | 184.8 |
| 47.5°  | 172.6 | 171.0 | 170.8 | 170.6 |
| 50°    | 156.2 | 153.9 | 152.3 | 150.7 |
| 52.5°  | 137.3 | 135.3 | 133.8 | 132.4 |
| 55°    | 120.0 | 117.8 | 116.6 | 115.3 |
| 57.5°  | 107.0 | 106.0 | 105.4 | 104.8 |
| 60°    | 96.5  | 95.9  | 95.4  | 95.0  |
| 62.5°  | 86.7  | 86.1  | 86.1  | 86.1  |
| 65°    | 77.8  | 77.2  | 76.6  | 76.0  |
| 67.5°  | 66.2  | 65.0  | 64.8  | 64.6  |
| 70°    | 52.2  | 50.4  | 50.2  | 50.0  |
| 72.5°  | 40.8  | 40.6  | 40.2  | 39.8  |
| 75°    | 33.7  | 33.3  | 33.3  | 33.3  |
| 77.5°  | 27.2  | 26.8  | 26.8  | 26.8  |
| 80°    | 20.9  | 20.7  | 20.9  | 21.1  |
| 82.5°  | 15.4  | 15.4  | 15.2  | 15.0  |
| 85°    | 10.0  | 9.7   | 9.7   | 9.7   |
| 87.5°  | 4.9   | 4.9   | 4.9   | 4.9   |
| 90°    | 9.0   | 9.2   | 9.3   | 9.5   |
| 92.5°  | 10.5  | 10.6  | 10.6  | 10.7  |
| 95°    | 12.0  | 12.0  | 12.0  | 12.0  |
| 97.5°  | 12.7  | 12.8  | 12.8  | 12.9  |
| 100°   | 13.0  | 13.1  | 13.2  | 13.2  |
| 102.5° | 13.1  | 13.3  | 13.4  | 13.5  |
| 105°   | 13.4  | 13.6  | 13.7  | 13.9  |
| 107.5° | 60.3  | 51.1  | 41.9  | 32.8  |
| 110°   | 116.7 | 106.7 | 96.7  | 86.7  |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 164.6 | 164.4 | 164.3 | 164.2 |
| 115°   | 184.4 | 184.7 | 185.0 | 185.3 |
| 117.5° | 202.1 | 202.2 | 202.2 | 202.3 |
| 120°   | 219.9 | 219.9 | 219.9 | 219.9 |
| 122.5° | 237.1 | 237.1 | 237.2 | 237.3 |
| 125°   | 252.9 | 253.1 | 253.2 | 253.3 |
| 127.5° | 269.5 | 269.4 | 269.2 | 269.1 |
| 130°   | 284.6 | 284.5 | 284.4 | 284.2 |
| 132.5° | 298.7 | 298.5 | 298.3 | 298.1 |
| 135°   | 312.9 | 312.7 | 312.5 | 312.3 |
| 137.5° | 326.2 | 326.1 | 326.0 | 325.8 |
| 140°   | 338.2 | 338.1 | 337.9 | 337.8 |
| 142.5° | 349.4 | 349.2 | 349.0 | 348.8 |
| 145°   | 360.2 | 360.2 | 360.2 | 360.2 |
| 147.5° | 369.4 | 369.1 | 368.7 | 368.4 |
| 150°   | 378.4 | 378.2 | 378.0 | 377.8 |
| 152.5° | 386.4 | 386.1 | 385.7 | 385.4 |
| 155°   | 393.6 | 393.1 | 392.7 | 392.3 |
| 157.5° | 400.0 | 399.4 | 398.9 | 398.3 |
| 160°   | 405.4 | 404.9 | 404.5 | 404.0 |
| 162.5° | 410.6 | 410.2 | 409.7 | 409.3 |
| 165°   | 414.9 | 414.4 | 413.9 | 413.4 |
| 167.5° | 418.2 | 417.7 | 417.1 | 416.6 |
| 170°   | 421.1 | 420.5 | 420.0 | 419.4 |
| 172.5° | 422.9 | 422.2 | 421.6 | 421.0 |
| 175°   | 424.2 | 423.7 | 423.1 | 422.6 |
| 177.5° | 425.0 | 424.3 | 423.6 | 422.9 |
| 180°   | 424.1 | 424.1 | 424.1 | 424.1 |



TEST NUMBER: P832110

CATALOG NUMBER: S123RDIP-S340D365U940-4F0-1E-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 | 9.01             | 9.82  | 9.97  | 10.79 | 12.06 | 13.67          | 14.48 | 14.64 | 15.45 | 16.72 |
|                 | 3H   | 10.23            | 10.95 | 11.20 | 11.93 | 13.23 | 15.17          | 15.89 | 16.15 | 16.87 | 18.17 |
|                 | 4H   | 10.61            | 11.29 | 11.60 | 12.28 | 13.58 | 15.66          | 16.34 | 16.65 | 17.33 | 18.63 |
|                 | 6H   | 10.89            | 11.52 | 11.89 | 12.51 | 13.82 | 15.97          | 16.60 | 16.97 | 17.59 | 18.90 |
|                 | 8H   | 10.98            | 11.57 | 11.98 | 12.58 | 13.89 | 16.05          | 16.65 | 17.05 | 17.65 | 18.96 |
|                 | 12H  | 11.03            | 11.60 | 12.04 | 12.60 | 13.93 | 16.08          | 16.65 | 17.09 | 17.65 | 18.98 |
| 4H              | 2H   | 9.73             | 10.41 | 10.72 | 11.40 | 12.70 | 13.66          | 14.35 | 14.66 | 15.33 | 16.63 |
|                 | 3H   | 11.10            | 11.67 | 12.10 | 12.68 | 13.99 | 15.32          | 15.89 | 16.32 | 16.90 | 18.22 |
|                 | 4H   | 11.55            | 12.07 | 12.56 | 13.08 | 14.42 | 15.93          | 16.45 | 16.94 | 17.45 | 18.79 |
|                 | 6H   | 11.92            | 12.36 | 12.94 | 13.39 | 14.73 | 16.36          | 16.81 | 17.39 | 17.84 | 19.17 |
|                 | 8H   | 12.04            | 12.46 | 13.07 | 13.48 | 14.83 | 16.49          | 16.91 | 17.52 | 17.93 | 19.28 |
|                 | 12H  | 12.12            | 12.49 | 13.16 | 13.53 | 14.88 | 16.55          | 16.93 | 17.60 | 17.97 | 19.32 |
| 8H              | 4H   | 11.86            | 12.28 | 12.89 | 13.30 | 14.65 | 15.89          | 16.31 | 16.92 | 17.33 | 18.68 |
|                 | 6H   | 12.33            | 12.67 | 13.37 | 13.73 | 15.08 | 16.39          | 16.73 | 17.44 | 17.80 | 19.14 |
|                 | 8H   | 12.52            | 12.82 | 13.57 | 13.87 | 15.24 | 16.57          | 16.87 | 17.63 | 17.93 | 19.29 |
|                 | 12H  | 12.66            | 12.92 | 13.72 | 13.97 | 15.38 | 16.69          | 16.95 | 17.75 | 18.00 | 19.41 |
| 12H             | 4H   | 11.87            | 12.25 | 12.92 | 13.29 | 14.64 | 15.84          | 16.22 | 16.88 | 17.25 | 18.61 |
|                 | 6H   | 12.39            | 12.69 | 13.44 | 13.74 | 15.10 | 16.36          | 16.66 | 17.42 | 17.71 | 19.08 |
|                 | 8H   | 12.60            | 12.87 | 13.66 | 13.91 | 15.32 | 16.55          | 16.82 | 17.61 | 17.86 | 19.27 |