

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: P832435

Luminaire Tested: S123RDIP-S775D805U940-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832435  
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-S775D805U940-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

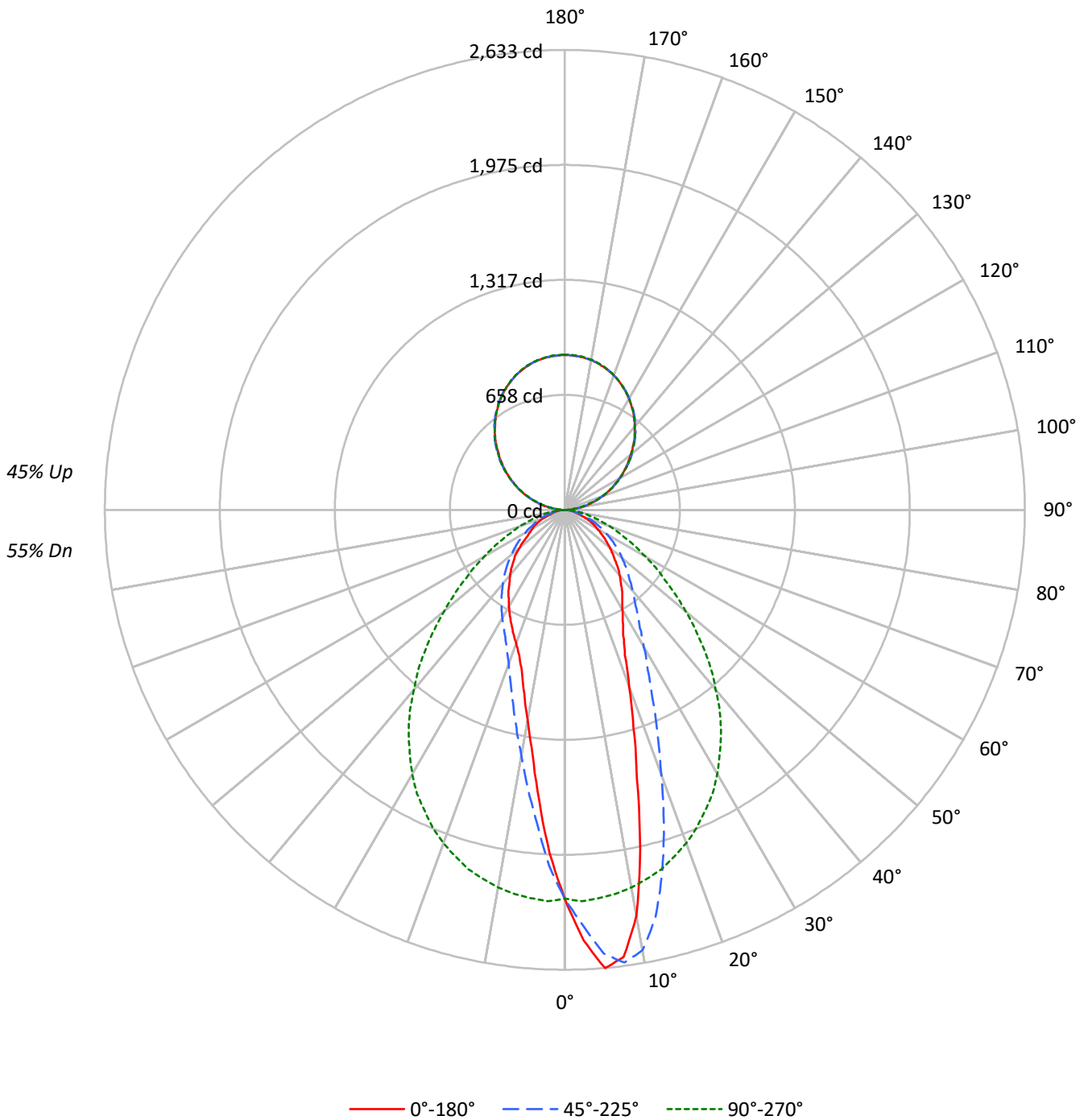
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5412.5 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): 46.5  
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: P832435

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### Luminous Intensity Polar Plot





TEST NUMBER: P832435

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |
| RC  | 80  |     |     |     |     | 70  |     |     |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |    |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 73 | 73 | 73 | 60 | 60 | 60 | 55 |    |    |    | 55 |
| 1   | 100 | 96  | 92  | 89  | 92  | 89  | 86  | 83  | 77 | 74 | 72 | 65 | 64 | 62 | 55 | 54 | 53 |    |    |    | 48 |    |
| 2   | 92  | 85  | 79  | 74  | 85  | 79  | 74  | 70  | 68 | 65 | 61 | 58 | 56 | 53 | 49 | 47 | 46 |    |    |    | 41 |    |
| 3   | 84  | 75  | 68  | 63  | 78  | 70  | 64  | 59  | 61 | 57 | 53 | 52 | 49 | 46 | 45 | 42 | 40 |    |    |    | 36 |    |
| 4   | 78  | 67  | 60  | 54  | 72  | 63  | 57  | 51  | 55 | 50 | 46 | 47 | 44 | 41 | 41 | 38 | 35 |    |    |    | 32 |    |
| 5   | 72  | 61  | 53  | 47  | 66  | 57  | 50  | 45  | 50 | 45 | 40 | 43 | 39 | 36 | 37 | 34 | 32 |    |    |    | 29 |    |
| 6   | 66  | 55  | 47  | 42  | 62  | 52  | 45  | 40  | 45 | 40 | 36 | 40 | 35 | 32 | 34 | 31 | 29 |    |    |    | 26 |    |
| 7   | 62  | 50  | 42  | 37  | 57  | 47  | 40  | 36  | 42 | 36 | 32 | 36 | 32 | 29 | 32 | 28 | 26 |    |    |    | 23 |    |
| 8   | 58  | 46  | 38  | 33  | 54  | 43  | 37  | 32  | 38 | 33 | 29 | 34 | 29 | 26 | 29 | 26 | 24 |    |    |    | 21 |    |
| 9   | 54  | 42  | 35  | 30  | 50  | 40  | 33  | 29  | 35 | 30 | 27 | 31 | 27 | 24 | 27 | 24 | 22 |    |    |    | 20 |    |
| 10  | 51  | 39  | 32  | 28  | 47  | 37  | 31  | 26  | 33 | 28 | 24 | 29 | 25 | 22 | 26 | 22 | 20 |    |    |    | 18 |    |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 23962 | 23962 | 23962 | 23962 | 23962 |
| 5°  | 28452 | 27544 | 24113 | 19492 | 18096 |
| 10° | 25778 | 27977 | 23992 | 15618 | 13398 |
| 15° | 17748 | 23989 | 23739 | 12765 | 10599 |
| 20° | 12347 | 18468 | 23262 | 10763 | 9315  |
| 25° | 9409  | 14076 | 22569 | 9567  | 8586  |
| 30° | 8191  | 11253 | 21701 | 8883  | 7952  |
| 35° | 7520  | 9493  | 20473 | 8306  | 7376  |
| 40° | 6861  | 8477  | 18865 | 7739  | 6849  |
| 45° | 6197  | 7753  | 17131 | 7203  | 6322  |
| 50° | 5625  | 7154  | 15086 | 6680  | 5670  |
| 55° | 5088  | 6568  | 13120 | 6167  | 4864  |
| 60° | 4560  | 5974  | 11397 | 5599  | 4598  |
| 65° | 4208  | 5300  | 9811  | 5033  | 4348  |
| 70° | 3418  | 4582  | 8560  | 4554  | 3534  |
| 75° | 2999  | 3643  | 7249  | 3776  | 3111  |
| 80° | 2715  | 3081  | 5938  | 3168  | 2944  |
| 85° | 2482  | 2705  | 4508  | 2878  | 2705  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 18077 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 202.9  | 3.7       |
| 10°-20°   | 469.5  | 8.7       |
| 20°-30°   | 538.7  | 10.0      |
| 30°-40°   | 531.0  | 9.8       |
| 40°-50°   | 468.3  | 8.7       |
| 50°-60°   | 360.2  | 6.7       |
| 60°-70°   | 236.8  | 4.4       |
| 70°-80°   | 115.0  | 2.1       |
| 80°-90°   | 30.9   | 0.6       |
| 90°-100°  | 57.1   | 1.1       |
| 100°-110° | 172.9  | 3.2       |
| 110°-120° | 294.4  | 5.4       |
| 120°-130° | 387.3  | 7.2       |
| 130°-140° | 435.3  | 8.0       |
| 140°-150° | 428.0  | 7.9       |
| 150°-160° | 360.3  | 6.7       |
| 160°-170° | 239.9  | 4.4       |
| 170°-180° | 84.0   | 1.6       |
| 0°-30°    | 1211.1 | 22.4      |
| 0°-40°    | 1742.1 | 32.2      |
| 0°-60°    | 2570.6 | 47.5      |
| 0°-90°    | 2953.4 | 54.6      |
| 90°-120°  | 524.4  | 9.7       |
| 90°-150°  | 1774.9 | 32.8      |
| 90°-180°  | 2459.0 | 45.4      |
| 0°-180°   | 5412.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2226 | 2226 | 2226 | 2226 | 2226 |      |
| 5°   | 2633 | 2549 | 2232 | 1804 | 1675 | 241  |
| 15°  | 1593 | 2153 | 2130 | 1146 | 951  | 450  |
| 25°  | 792  | 1185 | 1900 | 806  | 723  | 374  |
| 35°  | 572  | 722  | 1558 | 632  | 561  | 357  |
| 45°  | 407  | 509  | 1125 | 473  | 415  | 316  |
| 55°  | 271  | 350  | 699  | 329  | 259  | 243  |
| 65°  | 165  | 208  | 385  | 198  | 171  | 162  |
| 75°  | 72   | 88   | 174  | 91   | 75   | 78   |
| 85°  | 20   | 22   | 36   | 23   | 22   | 21   |
| 90°  | 21   | 17   | 1    | 17   | 21   | 11   |
| 95°  | 54   | 52   | 41   | 52   | 54   | 55   |
| 105° | 166  | 164  | 157  | 164  | 166  | 176  |
| 115° | 297  | 297  | 296  | 297  | 297  | 294  |
| 125° | 429  | 434  | 434  | 434  | 429  | 383  |
| 135° | 562  | 566  | 563  | 566  | 562  | 432  |
| 145° | 682  | 686  | 682  | 686  | 682  | 426  |
| 155° | 780  | 782  | 782  | 782  | 780  | 359  |
| 165° | 848  | 849  | 851  | 849  | 848  | 239  |
| 175° | 882  | 883  | 885  | 883  | 882  | 84   |
| 180° | 888  | 888  | 888  | 888  | 888  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5°   | 2467.1 | 2459.3 | 2451.6 | 2449.3 | 2447.0 | 2439.7 | 2432.4 | 2416.0 | 2399.5 | 2382.7 | 2365.8 |
| 5°     | 2633.2 | 2634.1 | 2635.0 | 2632.7 | 2630.5 | 2620.9 | 2611.3 | 2591.2 | 2571.1 | 2549.2 | 2527.3 |
| 7.5°   | 2582.1 | 2596.7 | 2611.3 | 2614.0 | 2616.8 | 2624.1 | 2631.4 | 2626.8 | 2622.3 | 2614.0 | 2605.8 |
| 10°    | 2358.5 | 2357.6 | 2356.6 | 2373.1 | 2389.5 | 2438.3 | 2487.2 | 2512.3 | 2537.4 | 2559.7 | 2582.1 |
| 12.5°  | 1993.4 | 1994.8 | 1996.1 | 2050.0 | 2103.8 | 2149.9 | 2196.0 | 2259.9 | 2323.8 | 2392.7 | 2461.6 |
| 15°    | 1592.7 | 1615.1 | 1637.4 | 1685.3 | 1733.3 | 1802.6 | 1872.0 | 1957.8 | 2043.6 | 2152.7 | 2261.7 |
| 17.5°  | 1307.9 | 1317.5 | 1327.1 | 1373.2 | 1419.3 | 1485.0 | 1550.7 | 1647.9 | 1745.1 | 1885.7 | 2026.2 |
| 20°    | 1077.9 | 1086.6 | 1095.3 | 1128.6 | 1161.9 | 1224.9 | 1287.9 | 1380.5 | 1473.1 | 1612.3 | 1751.5 |
| 22.5°  | 899.9  | 916.8  | 933.7  | 956.1  | 978.4  | 1024.1 | 1069.7 | 1164.2 | 1258.6 | 1385.5 | 1512.4 |
| 25°    | 792.2  | 800.0  | 807.8  | 826.9  | 846.1  | 889.9  | 933.7  | 996.2  | 1058.8 | 1185.2 | 1311.6 |
| 27.5°  | 719.2  | 721.5  | 723.8  | 737.9  | 752.1  | 780.4  | 808.7  | 866.6  | 924.6  | 1028.6 | 1132.7 |
| 30°    | 659.0  | 663.1  | 667.2  | 678.2  | 689.1  | 709.6  | 730.2  | 771.3  | 812.3  | 905.4  | 998.5  |
| 32.5°  | 612.4  | 614.7  | 617.0  | 626.1  | 635.3  | 650.3  | 665.4  | 697.8  | 730.2  | 801.4  | 872.6  |
| 35°    | 572.3  | 572.7  | 573.2  | 580.0  | 586.9  | 601.5  | 616.1  | 643.0  | 669.9  | 722.4  | 774.9  |
| 37.5°  | 526.6  | 529.8  | 533.0  | 538.0  | 543.1  | 555.8  | 568.6  | 590.5  | 612.4  | 655.8  | 699.1  |
| 40°    | 488.3  | 491.0  | 493.8  | 499.7  | 505.6  | 515.7  | 525.7  | 545.8  | 565.9  | 603.3  | 640.7  |
| 42.5°  | 450.0  | 451.8  | 453.6  | 459.6  | 465.5  | 477.8  | 490.1  | 506.1  | 522.1  | 553.1  | 584.1  |
| 45°    | 407.1  | 411.6  | 416.2  | 422.6  | 429.0  | 439.5  | 450.0  | 466.4  | 482.8  | 509.3  | 535.8  |
| 47.5°  | 371.5  | 373.8  | 376.0  | 381.5  | 387.0  | 399.8  | 412.6  | 427.2  | 441.8  | 466.4  | 491.0  |
| 50°    | 335.9  | 336.8  | 337.7  | 342.7  | 347.7  | 359.2  | 370.6  | 387.5  | 404.3  | 427.2  | 450.0  |
| 52.5°  | 302.1  | 304.4  | 306.7  | 311.7  | 316.7  | 324.5  | 332.2  | 349.6  | 366.9  | 389.3  | 411.6  |
| 55°    | 271.1  | 272.4  | 273.8  | 277.5  | 281.1  | 290.2  | 299.4  | 314.4  | 329.5  | 350.0  | 370.6  |
| 57.5°  | 241.9  | 243.7  | 245.5  | 248.3  | 251.0  | 259.2  | 267.4  | 280.7  | 293.9  | 314.4  | 335.0  |
| 60°    | 211.8  | 214.0  | 216.3  | 219.5  | 222.7  | 229.1  | 235.5  | 247.3  | 259.2  | 277.5  | 295.7  |
| 62.5°  | 189.8  | 190.3  | 190.8  | 193.5  | 196.2  | 200.8  | 205.4  | 214.9  | 224.5  | 242.8  | 261.0  |
| 65°    | 165.2  | 166.6  | 167.9  | 169.3  | 170.7  | 174.3  | 178.0  | 186.2  | 194.4  | 208.1  | 221.8  |
| 67.5°  | 139.6  | 141.0  | 142.4  | 144.7  | 146.9  | 150.1  | 153.3  | 158.8  | 164.3  | 177.1  | 189.8  |
| 70°    | 108.6  | 108.6  | 108.6  | 112.3  | 115.9  | 121.4  | 126.9  | 131.0  | 135.1  | 145.6  | 156.1  |
| 72.5°  | 88.5   | 89.0   | 89.4   | 89.9   | 90.4   | 93.6   | 96.7   | 103.6  | 110.4  | 116.8  | 123.2  |
| 75°    | 72.1   | 72.6   | 73.0   | 73.5   | 73.9   | 74.8   | 75.8   | 78.0   | 80.3   | 87.6   | 94.9   |
| 77.5°  | 57.5   | 58.0   | 58.4   | 58.9   | 59.3   | 60.2   | 61.2   | 62.1   | 63.0   | 65.7   | 68.5   |
| 80°    | 43.8   | 44.3   | 44.7   | 45.2   | 45.6   | 46.1   | 46.5   | 47.5   | 48.4   | 49.7   | 51.1   |
| 82.5°  | 31.9   | 31.9   | 31.9   | 31.9   | 31.9   | 32.9   | 33.8   | 33.8   | 33.8   | 34.7   | 35.6   |
| 85°    | 20.1   | 20.1   | 20.1   | 20.5   | 21.0   | 21.0   | 21.0   | 21.4   | 21.9   | 21.9   | 21.9   |
| 87.5°  | 9.1    | 8.7    | 8.2    | 8.7    | 9.1    | 9.1    | 9.1    | 9.6    | 10.0   | 10.0   | 10.0   |
| 90°    | 20.9   | 20.6   | 20.3   | 20.0   | 19.7   | 19.2   | 18.6   | 18.0   | 17.4   | 16.7   | 14.7   |
| 92.5°  | 30.0   | 30.3   | 30.6   | 30.9   | 31.2   | 31.1   | 30.7   | 30.2   | 29.7   | 29.3   | 28.4   |
| 95°    | 54.4   | 54.4   | 54.4   | 54.4   | 54.4   | 54.1   | 53.5   | 52.8   | 52.2   | 51.6   | 50.4   |
| 97.5°  | 78.1   | 78.2   | 78.4   | 78.5   | 78.7   | 78.4   | 77.6   | 76.8   | 76.1   | 75.3   | 74.4   |
| 100°   | 106.0  | 105.7  | 105.4  | 105.0  | 104.7  | 104.3  | 103.9  | 103.4  | 102.9  | 102.5  | 101.7  |
| 102.5° | 134.6  | 134.7  | 134.9  | 135.0  | 135.2  | 135.0  | 134.6  | 134.1  | 133.6  | 133.2  | 132.1  |
| 105°   | 165.9  | 165.6  | 165.3  | 165.0  | 164.7  | 164.5  | 164.5  | 164.5  | 164.5  | 164.5  | 163.1  |
| 107.5° | 198.0  | 198.2  | 198.3  | 198.5  | 198.6  | 198.5  | 198.0  | 197.5  | 197.1  | 196.6  | 196.0  |
| 110°   | 230.8  | 231.1  | 231.4  | 231.7  | 232.0  | 231.9  | 231.2  | 230.6  | 230.0  | 229.4  | 229.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 265.6 | 265.6 | 265.6 | 265.6 | 265.6 | 265.2 | 264.5 | 263.7 | 262.9 | 262.1 | 262.1 |
| 115°   | 297.0 | 297.2 | 297.3 | 297.5 | 297.6 | 297.6 | 297.5 | 297.3 | 297.2 | 297.0 | 297.3 |
| 117.5° | 329.1 | 329.5 | 330.0 | 330.5 | 330.9 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 331.5 |
| 120°   | 363.2 | 363.5 | 363.8 | 364.2 | 364.5 | 364.7 | 364.9 | 365.0 | 365.2 | 365.3 | 366.1 |
| 122.5° | 396.0 | 396.5 | 396.9 | 397.4 | 397.9 | 398.3 | 398.8 | 399.3 | 399.7 | 400.2 | 400.5 |
| 125°   | 428.8 | 429.4 | 430.0 | 430.6 | 431.2 | 431.9 | 432.5 | 433.1 | 433.7 | 434.3 | 434.7 |
| 127.5° | 461.5 | 462.2 | 462.8 | 463.4 | 464.0 | 464.8 | 465.7 | 466.6 | 467.6 | 468.5 | 468.8 |
| 130°   | 493.6 | 494.7 | 495.8 | 496.9 | 497.9 | 498.8 | 499.4 | 500.0 | 500.7 | 501.3 | 501.7 |
| 132.5° | 527.1 | 527.8 | 528.6 | 529.4 | 530.2 | 530.9 | 531.7 | 532.5 | 533.3 | 534.0 | 534.3 |
| 135°   | 561.9 | 562.2 | 562.5 | 562.9 | 563.2 | 563.6 | 564.2 | 564.9 | 565.5 | 566.1 | 566.3 |
| 137.5° | 592.6 | 593.1 | 593.5 | 594.0 | 594.5 | 595.1 | 595.9 | 596.6 | 597.4 | 598.2 | 597.7 |
| 140°   | 622.6 | 623.7 | 624.7 | 625.8 | 626.9 | 627.5 | 627.7 | 627.8 | 628.0 | 628.2 | 628.0 |
| 142.5° | 653.3 | 654.0 | 654.8 | 655.6 | 656.4 | 656.8 | 657.0 | 657.1 | 657.3 | 657.4 | 657.1 |
| 145°   | 682.5 | 683.2 | 683.8 | 684.4 | 685.0 | 685.4 | 685.6 | 685.7 | 685.9 | 686.0 | 685.6 |
| 147.5° | 709.0 | 710.0 | 710.9 | 711.8 | 712.7 | 713.2 | 713.2 | 713.2 | 713.2 | 713.2 | 712.7 |
| 150°   | 734.1 | 735.1 | 736.0 | 736.9 | 737.8 | 738.3 | 738.3 | 738.3 | 738.3 | 738.3 | 738.0 |
| 152.5° | 758.5 | 759.3 | 760.1 | 760.9 | 761.6 | 761.9 | 761.5 | 761.2 | 760.9 | 760.6 | 760.5 |
| 155°   | 780.1 | 781.2 | 782.3 | 783.4 | 784.5 | 784.7 | 784.1 | 783.5 | 782.9 | 782.2 | 782.1 |
| 157.5° | 800.4 | 801.3 | 802.2 | 803.1 | 804.1 | 804.2 | 803.6 | 803.0 | 802.4 | 801.8 | 801.6 |
| 160°   | 819.9 | 820.5 | 821.1 | 821.7 | 822.4 | 822.3 | 821.5 | 820.7 | 820.0 | 819.2 | 819.2 |
| 162.5° | 834.5 | 835.6 | 836.7 | 837.8 | 838.9 | 839.0 | 838.2 | 837.5 | 836.7 | 835.9 | 835.8 |
| 165°   | 848.5 | 849.5 | 850.6 | 851.7 | 852.8 | 852.9 | 852.0 | 851.0 | 850.1 | 849.2 | 849.2 |
| 167.5° | 861.0 | 861.9 | 862.9 | 863.8 | 864.7 | 864.7 | 863.8 | 862.9 | 861.9 | 861.0 | 860.9 |
| 170°   | 870.1 | 871.2 | 872.2 | 873.3 | 874.4 | 874.4 | 873.3 | 872.2 | 871.2 | 870.1 | 870.1 |
| 172.5° | 877.0 | 878.1 | 879.2 | 880.3 | 881.4 | 881.5 | 880.5 | 879.6 | 878.7 | 877.7 | 877.7 |
| 175°   | 881.9 | 883.0 | 884.1 | 885.2 | 886.3 | 886.3 | 885.4 | 884.5 | 883.6 | 882.6 | 882.6 |
| 177.5° | 884.7 | 885.8 | 886.9 | 888.0 | 889.1 | 889.1 | 888.2 | 887.3 | 886.3 | 885.4 | 885.4 |
| 180°   | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5°   | 2363.5 | 2361.2 | 2339.3 | 2317.4 | 2296.0 | 2274.5 | 2258.5 | 2242.6 | 2215.6 | 2188.7 | 2171.8 |
| 5°     | 2510.0 | 2492.6 | 2458.0 | 2423.3 | 2371.3 | 2319.2 | 2275.4 | 2231.6 | 2175.9 | 2120.3 | 2073.7 |
| 7.5°   | 2591.7 | 2577.5 | 2535.5 | 2493.6 | 2424.6 | 2355.7 | 2287.3 | 2218.8 | 2136.7 | 2054.5 | 1984.3 |
| 10°    | 2594.0 | 2605.8 | 2571.1 | 2536.5 | 2458.9 | 2381.3 | 2288.2 | 2195.1 | 2084.7 | 1974.2 | 1883.4 |
| 12.5°  | 2512.7 | 2563.8 | 2556.5 | 2549.2 | 2470.3 | 2391.3 | 2278.2 | 2165.0 | 2029.4 | 1893.9 | 1780.3 |
| 15°    | 2360.8 | 2459.8 | 2489.0 | 2518.2 | 2452.9 | 2387.7 | 2259.0 | 2130.3 | 1971.0 | 1811.8 | 1681.2 |
| 17.5°  | 2165.0 | 2303.7 | 2380.8 | 2458.0 | 2410.5 | 2363.0 | 2222.0 | 2081.0 | 1901.7 | 1722.3 | 1580.4 |
| 20°    | 1933.1 | 2114.8 | 2235.7 | 2356.6 | 2339.3 | 2322.0 | 2176.4 | 2030.8 | 1837.3 | 1643.8 | 1490.0 |
| 22.5°  | 1704.1 | 1895.7 | 2062.8 | 2229.8 | 2247.6 | 2265.4 | 2118.4 | 1971.5 | 1759.7 | 1548.0 | 1391.4 |
| 25°    | 1506.4 | 1701.3 | 1900.3 | 2099.3 | 2139.4 | 2179.6 | 2039.9 | 1900.3 | 1680.8 | 1461.3 | 1305.6 |
| 27.5°  | 1318.0 | 1503.3 | 1722.3 | 1941.4 | 2014.4 | 2087.4 | 1959.6 | 1831.8 | 1603.2 | 1374.6 | 1219.4 |
| 30°    | 1164.2 | 1329.8 | 1553.5 | 1777.1 | 1878.8 | 1980.6 | 1863.3 | 1746.0 | 1519.2 | 1292.4 | 1140.4 |
| 32.5°  | 1020.9 | 1169.2 | 1393.7 | 1618.3 | 1736.5 | 1854.7 | 1753.3 | 1652.0 | 1433.9 | 1215.7 | 1065.6 |
| 35°    | 907.7  | 1040.5 | 1250.0 | 1459.4 | 1591.8 | 1724.1 | 1641.1 | 1558.0 | 1344.9 | 1131.8 | 989.8  |
| 37.5°  | 810.5  | 921.8  | 1118.5 | 1315.2 | 1455.8 | 1596.4 | 1527.0 | 1457.6 | 1257.3 | 1056.9 | 922.8  |
| 40°    | 730.2  | 819.6  | 1002.6 | 1185.6 | 1323.4 | 1461.3 | 1401.9 | 1342.6 | 1163.3 | 983.9  | 858.4  |
| 42.5°  | 661.3  | 738.4  | 902.7  | 1067.0 | 1193.4 | 1319.8 | 1280.5 | 1241.3 | 1078.8 | 916.4  | 800.0  |
| 45°    | 600.6  | 665.4  | 810.0  | 954.7  | 1071.1 | 1187.5 | 1156.4 | 1125.4 | 985.3  | 845.2  | 738.4  |
| 47.5°  | 546.7  | 602.4  | 731.5  | 860.7  | 965.2  | 1069.7 | 1041.0 | 1012.2 | 896.3  | 780.4  | 683.2  |
| 50°    | 497.4  | 544.9  | 652.6  | 760.3  | 854.3  | 948.3  | 924.6  | 900.9  | 805.0  | 709.2  | 625.2  |
| 52.5°  | 450.9  | 490.1  | 586.9  | 683.6  | 759.4  | 835.1  | 816.9  | 798.6  | 724.7  | 650.8  | 574.6  |
| 55°    | 406.6  | 442.7  | 524.4  | 606.0  | 670.9  | 735.7  | 717.4  | 699.1  | 641.6  | 584.1  | 517.1  |
| 57.5°  | 366.5  | 397.9  | 464.1  | 530.3  | 581.9  | 633.4  | 624.8  | 616.1  | 568.2  | 520.3  | 465.0  |
| 60°    | 324.0  | 352.3  | 409.4  | 466.4  | 507.9  | 549.5  | 539.4  | 529.4  | 495.2  | 460.9  | 413.5  |
| 62.5°  | 286.1  | 311.2  | 356.9  | 402.5  | 436.3  | 470.1  | 462.8  | 455.4  | 429.4  | 403.4  | 364.2  |
| 65°    | 246.4  | 271.1  | 308.0  | 345.0  | 371.5  | 397.9  | 391.6  | 385.2  | 365.5  | 345.9  | 314.4  |
| 67.5°  | 210.4  | 230.9  | 262.9  | 294.8  | 312.6  | 330.4  | 326.8  | 323.1  | 308.0  | 293.0  | 268.3  |
| 70°    | 173.9  | 191.7  | 218.1  | 244.6  | 256.9  | 269.3  | 270.6  | 272.0  | 258.3  | 244.6  | 226.4  |
| 72.5°  | 137.4  | 151.5  | 176.2  | 200.8  | 210.4  | 220.0  | 219.5  | 219.1  | 210.8  | 202.6  | 186.2  |
| 75°    | 105.4  | 115.9  | 135.1  | 154.3  | 162.5  | 170.7  | 172.5  | 174.3  | 166.6  | 158.8  | 149.7  |
| 77.5°  | 75.8   | 83.1   | 97.7   | 112.3  | 121.4  | 130.5  | 131.4  | 132.3  | 128.7  | 125.0  | 116.4  |
| 80°    | 53.4   | 55.7   | 64.8   | 73.9   | 83.5   | 93.1   | 94.5   | 95.8   | 92.2   | 88.5   | 83.1   |
| 82.5°  | 37.0   | 38.3   | 41.5   | 44.7   | 52.5   | 60.2   | 62.1   | 63.9   | 62.1   | 60.2   | 54.3   |
| 85°    | 22.4   | 22.8   | 24.2   | 25.6   | 29.2   | 32.9   | 34.7   | 36.5   | 35.6   | 34.7   | 31.5   |
| 87.5°  | 10.0   | 10.0   | 10.5   | 11.0   | 11.9   | 12.8   | 15.1   | 17.3   | 16.0   | 14.6   | 13.2   |
| 90°    | 12.7   | 10.7   | 8.7    | 6.9    | 5.3    | 3.8    | 2.2    | 0.7    | 2.2    | 3.8    | 5.3    |
| 92.5°  | 27.4   | 26.5   | 25.6   | 24.6   | 23.7   | 22.8   | 21.8   | 20.9   | 21.8   | 22.8   | 23.7   |
| 95°    | 49.1   | 47.9   | 46.6   | 45.5   | 44.4   | 43.3   | 42.2   | 41.1   | 42.2   | 43.3   | 44.4   |
| 97.5°  | 73.4   | 72.5   | 71.6   | 70.7   | 70.0   | 69.2   | 68.4   | 67.6   | 68.4   | 69.2   | 70.0   |
| 100°   | 100.9  | 100.2  | 99.4   | 98.5   | 97.6   | 96.7   | 95.7   | 94.8   | 95.7   | 96.7   | 97.6   |
| 102.5° | 131.0  | 129.9  | 128.8  | 128.0  | 127.6  | 127.1  | 126.7  | 126.2  | 126.7  | 127.1  | 127.6  |
| 105°   | 161.7  | 160.4  | 159.0  | 158.1  | 157.8  | 157.5  | 157.2  | 156.9  | 157.2  | 157.5  | 157.8  |
| 107.5° | 195.4  | 194.7  | 194.1  | 193.7  | 193.6  | 193.4  | 193.3  | 193.1  | 193.3  | 193.4  | 193.6  |
| 110°   | 228.8  | 228.4  | 228.1  | 227.8  | 227.5  | 227.2  | 226.9  | 226.6  | 226.9  | 227.2  | 227.5  |





TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 262.1 | 262.1 | 262.1 | 262.1 | 261.9 | 261.8 | 261.6 | 261.4 | 261.6 | 261.8 | 261.9 |
| 115°   | 297.6 | 297.9 | 298.2 | 298.2 | 297.7 | 297.2 | 296.8 | 296.3 | 296.8 | 297.2 | 297.7 |
| 117.5° | 331.8 | 332.1 | 332.4 | 332.5 | 332.3 | 332.2 | 332.0 | 331.9 | 332.0 | 332.2 | 332.3 |
| 120°   | 366.9 | 367.6 | 368.4 | 368.3 | 367.4 | 366.5 | 365.6 | 364.6 | 365.6 | 366.5 | 367.4 |
| 122.5° | 400.8 | 401.1 | 401.4 | 401.3 | 400.6 | 400.0 | 399.4 | 398.8 | 399.4 | 400.0 | 400.6 |
| 125°   | 435.0 | 435.3 | 435.6 | 435.5 | 435.0 | 434.6 | 434.1 | 433.6 | 434.1 | 434.6 | 435.0 |
| 127.5° | 469.1 | 469.4 | 469.7 | 469.4 | 468.5 | 467.6 | 466.6 | 465.7 | 466.6 | 467.6 | 468.5 |
| 130°   | 502.2 | 502.7 | 503.1 | 502.7 | 501.5 | 500.3 | 499.0 | 497.8 | 499.0 | 500.3 | 501.5 |
| 132.5° | 534.7 | 535.0 | 535.3 | 534.8 | 533.6 | 532.3 | 531.1 | 529.9 | 531.1 | 532.3 | 533.6 |
| 135°   | 566.4 | 566.6 | 566.7 | 566.3 | 565.4 | 564.5 | 563.6 | 562.6 | 563.6 | 564.5 | 565.4 |
| 137.5° | 597.2 | 596.8 | 596.3 | 595.7 | 594.9 | 594.1 | 593.4 | 592.6 | 593.4 | 594.1 | 594.9 |
| 140°   | 627.8 | 627.7 | 627.5 | 627.1 | 626.3 | 625.5 | 624.7 | 624.0 | 624.7 | 625.5 | 626.3 |
| 142.5° | 656.8 | 656.5 | 656.2 | 655.7 | 654.9 | 654.1 | 653.3 | 652.6 | 653.3 | 654.1 | 654.9 |
| 145°   | 685.1 | 684.6 | 684.2 | 683.8 | 683.5 | 683.2 | 682.8 | 682.5 | 682.8 | 683.2 | 683.5 |
| 147.5° | 712.3 | 711.8 | 711.4 | 710.8 | 710.2 | 709.6 | 709.0 | 708.3 | 709.0 | 709.6 | 710.2 |
| 150°   | 737.7 | 737.4 | 737.1 | 736.8 | 736.5 | 736.1 | 735.8 | 735.5 | 735.8 | 736.1 | 736.5 |
| 152.5° | 760.3 | 760.2 | 760.0 | 759.7 | 759.2 | 758.8 | 758.3 | 757.8 | 758.3 | 758.8 | 759.2 |
| 155°   | 781.9 | 781.8 | 781.6 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 |
| 157.5° | 801.4 | 801.3 | 801.1 | 801.1 | 801.3 | 801.4 | 801.6 | 801.8 | 801.6 | 801.4 | 801.3 |
| 160°   | 819.2 | 819.2 | 819.2 | 819.3 | 819.6 | 820.0 | 820.3 | 820.6 | 820.3 | 820.0 | 819.6 |
| 162.5° | 835.6 | 835.5 | 835.3 | 835.5 | 835.9 | 836.4 | 836.8 | 837.3 | 836.8 | 836.4 | 835.9 |
| 165°   | 849.2 | 849.2 | 849.2 | 849.4 | 849.9 | 850.3 | 850.8 | 851.3 | 850.8 | 850.3 | 849.9 |
| 167.5° | 860.7 | 860.5 | 860.4 | 860.6 | 861.2 | 861.9 | 862.5 | 863.1 | 862.5 | 861.9 | 861.2 |
| 170°   | 870.1 | 870.1 | 870.1 | 870.4 | 871.0 | 871.6 | 872.2 | 872.9 | 872.2 | 871.6 | 871.0 |
| 172.5° | 877.7 | 877.7 | 877.7 | 878.1 | 878.7 | 879.3 | 879.9 | 880.5 | 879.9 | 879.3 | 878.7 |
| 175°   | 882.6 | 882.6 | 882.6 | 882.9 | 883.6 | 884.2 | 884.8 | 885.4 | 884.8 | 884.2 | 883.6 |
| 177.5° | 885.4 | 885.4 | 885.4 | 885.7 | 886.3 | 887.0 | 887.6 | 888.2 | 887.6 | 887.0 | 886.3 |
| 180°   | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5°   | 2154.9 | 2128.9 | 2102.9 | 2084.2 | 2065.5 | 2042.2 | 2018.9 | 2018.0 | 2017.1 | 1999.8 | 1982.4 |
| 5°     | 2027.2 | 1982.0 | 1936.8 | 1892.5 | 1848.3 | 1804.0 | 1759.7 | 1749.7 | 1739.6 | 1724.6 | 1709.5 |
| 7.5°   | 1914.0 | 1841.9 | 1769.8 | 1713.2 | 1656.6 | 1612.3 | 1568.1 | 1537.9 | 1507.8 | 1484.5 | 1461.3 |
| 10°    | 1792.6 | 1703.1 | 1613.7 | 1545.2 | 1476.8 | 1428.9 | 1380.9 | 1346.3 | 1311.6 | 1295.2 | 1278.7 |
| 12.5°  | 1666.6 | 1569.4 | 1472.2 | 1405.1 | 1338.1 | 1280.5 | 1223.0 | 1191.6 | 1160.1 | 1137.3 | 1114.4 |
| 15°    | 1550.7 | 1446.2 | 1341.7 | 1270.5 | 1199.3 | 1145.5 | 1091.6 | 1060.1 | 1028.6 | 1005.8 | 983.0  |
| 17.5°  | 1438.5 | 1333.0 | 1227.6 | 1155.5 | 1083.4 | 1034.6 | 985.7  | 955.2  | 924.6  | 910.4  | 896.3  |
| 20°    | 1336.2 | 1229.9 | 1123.6 | 1055.6 | 987.6  | 939.6  | 891.7  | 875.3  | 858.9  | 845.6  | 832.4  |
| 22.5°  | 1234.9 | 1132.7 | 1030.5 | 965.2  | 899.9  | 865.3  | 830.6  | 817.3  | 804.1  | 794.1  | 784.0  |
| 25°    | 1150.0 | 1048.3 | 946.5  | 889.4  | 832.4  | 805.5  | 778.6  | 769.9  | 761.2  | 751.2  | 741.1  |
| 27.5°  | 1064.2 | 967.5  | 870.7  | 825.1  | 779.5  | 757.6  | 735.7  | 724.7  | 713.7  | 705.5  | 697.3  |
| 30°    | 988.5  | 899.0  | 809.6  | 771.7  | 733.8  | 714.7  | 695.5  | 683.6  | 671.8  | 664.0  | 656.2  |
| 32.5°  | 915.5  | 836.1  | 756.6  | 724.2  | 691.8  | 673.1  | 654.4  | 643.0  | 631.6  | 622.5  | 613.3  |
| 35°    | 847.9  | 779.0  | 710.1  | 680.4  | 650.8  | 632.1  | 613.3  | 601.9  | 590.5  | 581.4  | 572.3  |
| 37.5°  | 788.6  | 726.1  | 663.5  | 635.7  | 607.9  | 591.4  | 575.0  | 563.1  | 551.3  | 541.7  | 532.1  |
| 40°    | 732.9  | 677.7  | 622.5  | 595.6  | 568.6  | 550.8  | 533.0  | 522.5  | 512.0  | 503.4  | 494.7  |
| 42.5°  | 683.6  | 633.0  | 582.3  | 555.8  | 529.4  | 512.5  | 495.6  | 483.3  | 471.0  | 465.9  | 460.9  |
| 45°    | 631.6  | 586.9  | 542.2  | 516.6  | 491.0  | 473.2  | 455.4  | 445.0  | 434.5  | 429.9  | 425.3  |
| 47.5°  | 586.0  | 544.4  | 502.9  | 477.8  | 452.7  | 436.7  | 420.8  | 412.6  | 404.3  | 397.9  | 391.6  |
| 50°    | 541.2  | 501.1  | 460.9  | 436.7  | 412.6  | 398.9  | 385.2  | 375.1  | 365.1  | 360.5  | 356.0  |
| 52.5°  | 498.3  | 461.8  | 425.3  | 400.7  | 376.0  | 362.8  | 349.6  | 340.9  | 332.2  | 322.6  | 313.1  |
| 55°    | 450.0  | 418.0  | 386.1  | 364.2  | 342.3  | 328.6  | 314.9  | 304.8  | 294.8  | 284.8  | 274.7  |
| 57.5°  | 409.8  | 378.3  | 346.8  | 327.2  | 307.6  | 294.4  | 281.1  | 270.2  | 259.2  | 251.0  | 242.8  |
| 60°    | 366.0  | 338.6  | 311.2  | 292.1  | 272.9  | 260.1  | 247.3  | 236.9  | 226.4  | 222.2  | 218.1  |
| 62.5°  | 324.9  | 299.4  | 273.8  | 256.9  | 240.0  | 227.7  | 215.4  | 208.6  | 201.7  | 199.0  | 196.2  |
| 65°    | 282.9  | 261.0  | 239.1  | 223.6  | 208.1  | 197.6  | 187.1  | 183.9  | 180.7  | 178.4  | 176.2  |
| 67.5°  | 243.7  | 225.0  | 206.3  | 192.6  | 178.9  | 171.6  | 164.3  | 160.6  | 157.0  | 154.3  | 151.5  |
| 70°    | 208.1  | 191.7  | 175.2  | 163.4  | 151.5  | 144.7  | 137.8  | 134.6  | 131.4  | 126.4  | 121.4  |
| 72.5°  | 169.8  | 157.0  | 144.2  | 135.1  | 126.0  | 120.0  | 114.1  | 107.7  | 101.3  | 96.7   | 92.2   |
| 75°    | 140.6  | 127.8  | 115.0  | 106.3  | 97.7   | 90.8   | 84.0   | 81.7   | 79.4   | 78.0   | 76.7   |
| 77.5°  | 107.7  | 96.7   | 85.8   | 79.0   | 72.1   | 68.9   | 65.7   | 64.3   | 63.0   | 62.5   | 62.1   |
| 80°    | 77.6   | 68.5   | 59.3   | 55.7   | 52.0   | 51.1   | 50.2   | 49.3   | 48.4   | 47.9   | 47.5   |
| 82.5°  | 48.4   | 43.8   | 39.2   | 38.3   | 37.4   | 37.0   | 36.5   | 36.1   | 35.6   | 35.1   | 34.7   |
| 85°    | 28.3   | 26.5   | 24.6   | 24.2   | 23.7   | 23.3   | 22.8   | 22.8   | 22.8   | 22.8   | 22.8   |
| 87.5°  | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.4   | 11.0   |
| 90°    | 6.9    | 8.7    | 10.7   | 12.7   | 14.7   | 16.7   | 17.4   | 18.0   | 18.6   | 19.2   | 19.7   |
| 92.5°  | 24.6   | 25.6   | 26.5   | 27.4   | 28.4   | 29.3   | 29.7   | 30.2   | 30.7   | 31.1   | 31.2   |
| 95°    | 45.5   | 46.6   | 47.9   | 49.1   | 50.4   | 51.6   | 52.2   | 52.8   | 53.5   | 54.1   | 54.4   |
| 97.5°  | 70.7   | 71.6   | 72.5   | 73.4   | 74.4   | 75.3   | 76.1   | 76.8   | 77.6   | 78.4   | 78.7   |
| 100°   | 98.5   | 99.4   | 100.2  | 100.9  | 101.7  | 102.5  | 102.9  | 103.4  | 103.9  | 104.3  | 104.7  |
| 102.5° | 128.0  | 128.8  | 129.9  | 131.0  | 132.1  | 133.2  | 133.6  | 134.1  | 134.6  | 135.0  | 135.2  |
| 105°   | 158.1  | 159.0  | 160.4  | 161.7  | 163.1  | 164.5  | 164.5  | 164.5  | 164.5  | 164.5  | 164.7  |
| 107.5° | 193.7  | 194.1  | 194.7  | 195.4  | 196.0  | 196.6  | 197.1  | 197.5  | 198.0  | 198.5  | 198.6  |
| 110°   | 227.8  | 228.1  | 228.4  | 228.8  | 229.1  | 229.4  | 230.0  | 230.6  | 231.2  | 231.9  | 232.0  |

TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 262.1 | 262.1 | 262.1 | 262.1 | 262.1 | 262.1 | 262.9 | 263.7 | 264.5 | 265.2 | 265.6 |
| 115°   | 298.2 | 298.2 | 297.9 | 297.6 | 297.3 | 297.0 | 297.2 | 297.3 | 297.5 | 297.6 | 297.6 |
| 117.5° | 332.5 | 332.4 | 332.1 | 331.8 | 331.5 | 331.2 | 331.2 | 331.2 | 331.2 | 331.2 | 330.9 |
| 120°   | 368.3 | 368.4 | 367.6 | 366.9 | 366.1 | 365.3 | 365.2 | 365.0 | 364.9 | 364.7 | 364.5 |
| 122.5° | 401.3 | 401.4 | 401.1 | 400.8 | 400.5 | 400.2 | 399.7 | 399.3 | 398.8 | 398.3 | 397.9 |
| 125°   | 435.5 | 435.6 | 435.3 | 435.0 | 434.7 | 434.3 | 433.7 | 433.1 | 432.5 | 431.9 | 431.2 |
| 127.5° | 469.4 | 469.7 | 469.4 | 469.1 | 468.8 | 468.5 | 467.6 | 466.6 | 465.7 | 464.8 | 464.0 |
| 130°   | 502.7 | 503.1 | 502.7 | 502.2 | 501.7 | 501.3 | 500.7 | 500.0 | 499.4 | 498.8 | 497.9 |
| 132.5° | 534.8 | 535.3 | 535.0 | 534.7 | 534.3 | 534.0 | 533.3 | 532.5 | 531.7 | 530.9 | 530.2 |
| 135°   | 566.3 | 566.7 | 566.6 | 566.4 | 566.3 | 566.1 | 565.5 | 564.9 | 564.2 | 563.6 | 563.2 |
| 137.5° | 595.7 | 596.3 | 596.8 | 597.2 | 597.7 | 598.2 | 597.4 | 596.6 | 595.9 | 595.1 | 594.5 |
| 140°   | 627.1 | 627.5 | 627.7 | 627.8 | 628.0 | 628.2 | 628.0 | 627.8 | 627.7 | 627.5 | 626.9 |
| 142.5° | 655.7 | 656.2 | 656.5 | 656.8 | 657.1 | 657.4 | 657.3 | 657.1 | 657.0 | 656.8 | 656.4 |
| 145°   | 683.8 | 684.2 | 684.6 | 685.1 | 685.6 | 686.0 | 685.9 | 685.7 | 685.6 | 685.4 | 685.0 |
| 147.5° | 710.8 | 711.4 | 711.8 | 712.3 | 712.7 | 713.2 | 713.2 | 713.2 | 713.2 | 713.2 | 712.7 |
| 150°   | 736.8 | 737.1 | 737.4 | 737.7 | 738.0 | 738.3 | 738.3 | 738.3 | 738.3 | 738.3 | 737.8 |
| 152.5° | 759.7 | 760.0 | 760.2 | 760.3 | 760.5 | 760.6 | 760.9 | 761.2 | 761.5 | 761.9 | 761.6 |
| 155°   | 781.5 | 781.6 | 781.8 | 781.9 | 782.1 | 782.2 | 782.9 | 783.5 | 784.1 | 784.7 | 784.5 |
| 157.5° | 801.1 | 801.1 | 801.3 | 801.4 | 801.6 | 801.8 | 802.4 | 803.0 | 803.6 | 804.2 | 804.1 |
| 160°   | 819.3 | 819.2 | 819.2 | 819.2 | 819.2 | 819.2 | 820.0 | 820.7 | 821.5 | 822.3 | 822.4 |
| 162.5° | 835.5 | 835.3 | 835.5 | 835.6 | 835.8 | 835.9 | 836.7 | 837.5 | 838.2 | 839.0 | 838.9 |
| 165°   | 849.4 | 849.2 | 849.2 | 849.2 | 849.2 | 849.2 | 850.1 | 851.0 | 852.0 | 852.9 | 852.8 |
| 167.5° | 860.6 | 860.4 | 860.5 | 860.7 | 860.9 | 861.0 | 861.9 | 862.9 | 863.8 | 864.7 | 864.7 |
| 170°   | 870.4 | 870.1 | 870.1 | 870.1 | 870.1 | 870.1 | 871.2 | 872.2 | 873.3 | 874.4 | 874.4 |
| 172.5° | 878.1 | 877.7 | 877.7 | 877.7 | 877.7 | 877.7 | 878.7 | 879.6 | 880.5 | 881.5 | 881.4 |
| 175°   | 882.9 | 882.6 | 882.6 | 882.6 | 882.6 | 882.6 | 883.6 | 884.5 | 885.4 | 886.3 | 886.3 |
| 177.5° | 885.7 | 885.4 | 885.4 | 885.4 | 885.4 | 885.4 | 886.3 | 887.3 | 888.2 | 889.1 | 889.1 |
| 180°   | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 2226.1 | 2226.1 | 2226.1 | 2226.1 |
| 2.5°   | 1977.9 | 1973.3 | 1971.5 | 1969.7 |
| 5°     | 1695.4 | 1681.2 | 1678.0 | 1674.8 |
| 7.5°   | 1455.3 | 1449.4 | 1429.8 | 1410.2 |
| 10°    | 1260.5 | 1242.2 | 1234.0 | 1225.8 |
| 12.5°  | 1097.5 | 1080.7 | 1077.9 | 1075.2 |
| 15°    | 971.1  | 959.3  | 955.2  | 951.1  |
| 17.5°  | 888.1  | 879.9  | 874.8  | 869.8  |
| 20°    | 826.5  | 820.5  | 816.9  | 813.2  |
| 22.5°  | 779.5  | 774.9  | 772.2  | 769.4  |
| 25°    | 734.3  | 727.4  | 725.2  | 722.9  |
| 27.5°  | 691.4  | 685.5  | 683.2  | 680.9  |
| 30°    | 651.2  | 646.2  | 643.0  | 639.8  |
| 32.5°  | 607.4  | 601.5  | 599.7  | 597.8  |
| 35°    | 568.6  | 565.0  | 563.1  | 561.3  |
| 37.5°  | 527.6  | 523.0  | 520.3  | 517.5  |
| 40°    | 492.4  | 490.1  | 488.8  | 487.4  |
| 42.5°  | 456.8  | 452.7  | 452.3  | 451.8  |
| 45°    | 421.2  | 417.1  | 416.2  | 415.3  |
| 47.5°  | 387.9  | 384.3  | 383.8  | 383.3  |
| 50°    | 350.9  | 345.9  | 342.3  | 338.6  |
| 52.5°  | 308.5  | 303.9  | 300.7  | 297.5  |
| 55°    | 269.7  | 264.7  | 262.0  | 259.2  |
| 57.5°  | 240.5  | 238.2  | 236.9  | 235.5  |
| 60°    | 216.8  | 215.4  | 214.5  | 213.6  |
| 62.5°  | 194.9  | 193.5  | 193.5  | 193.5  |
| 65°    | 174.8  | 173.4  | 172.0  | 170.7  |
| 67.5°  | 148.8  | 146.0  | 145.6  | 145.1  |
| 70°    | 117.3  | 113.2  | 112.7  | 112.3  |
| 72.5°  | 91.7   | 91.3   | 90.4   | 89.4   |
| 75°    | 75.8   | 74.8   | 74.8   | 74.8   |
| 77.5°  | 61.2   | 60.2   | 60.2   | 60.2   |
| 80°    | 47.0   | 46.5   | 47.0   | 47.5   |
| 82.5°  | 34.7   | 34.7   | 34.2   | 33.8   |
| 85°    | 22.4   | 21.9   | 21.9   | 21.9   |
| 87.5°  | 11.0   | 11.0   | 11.0   | 11.0   |
| 90°    | 20.0   | 20.3   | 20.6   | 20.9   |
| 92.5°  | 30.9   | 30.6   | 30.3   | 30.0   |
| 95°    | 54.4   | 54.4   | 54.4   | 54.4   |
| 97.5°  | 78.5   | 78.4   | 78.2   | 78.1   |
| 100°   | 105.0  | 105.4  | 105.7  | 106.0  |
| 102.5° | 135.0  | 134.9  | 134.7  | 134.6  |
| 105°   | 165.0  | 165.3  | 165.6  | 165.9  |
| 107.5° | 198.5  | 198.3  | 198.2  | 198.0  |
| 110°   | 231.7  | 231.4  | 231.1  | 230.8  |



TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|
| 112.5° | 265.6 | 265.6 | 265.6 | 265.6 |
| 115°   | 297.5 | 297.3 | 297.2 | 297.0 |
| 117.5° | 330.5 | 330.0 | 329.5 | 329.1 |
| 120°   | 364.2 | 363.8 | 363.5 | 363.2 |
| 122.5° | 397.4 | 396.9 | 396.5 | 396.0 |
| 125°   | 430.6 | 430.0 | 429.4 | 428.8 |
| 127.5° | 463.4 | 462.8 | 462.2 | 461.5 |
| 130°   | 496.9 | 495.8 | 494.7 | 493.6 |
| 132.5° | 529.4 | 528.6 | 527.8 | 527.1 |
| 135°   | 562.9 | 562.5 | 562.2 | 561.9 |
| 137.5° | 594.0 | 593.5 | 593.1 | 592.6 |
| 140°   | 625.8 | 624.7 | 623.7 | 622.6 |
| 142.5° | 655.6 | 654.8 | 654.0 | 653.3 |
| 145°   | 684.4 | 683.8 | 683.2 | 682.5 |
| 147.5° | 711.8 | 710.9 | 710.0 | 709.0 |
| 150°   | 736.9 | 736.0 | 735.1 | 734.1 |
| 152.5° | 760.9 | 760.1 | 759.3 | 758.5 |
| 155°   | 783.4 | 782.3 | 781.2 | 780.1 |
| 157.5° | 803.1 | 802.2 | 801.3 | 800.4 |
| 160°   | 821.7 | 821.1 | 820.5 | 819.9 |
| 162.5° | 837.8 | 836.7 | 835.6 | 834.5 |
| 165°   | 851.7 | 850.6 | 849.5 | 848.5 |
| 167.5° | 863.8 | 862.9 | 861.9 | 861.0 |
| 170°   | 873.3 | 872.2 | 871.2 | 870.1 |
| 172.5° | 880.3 | 879.2 | 878.1 | 877.0 |
| 175°   | 885.2 | 884.1 | 883.0 | 881.9 |
| 177.5° | 888.0 | 886.9 | 885.8 | 884.7 |
| 180°   | 887.5 | 887.5 | 887.5 | 887.5 |



TEST NUMBER: P832435

CATALOG NUMBER: S123RDIP-S775D805U940-4F0-1E-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 | 12.20            | 13.05 | 13.13 | 13.98 | 15.19 | 16.87          | 17.71 | 17.80 | 18.65 | 19.86 |
|                 | 3H   | 13.42            | 14.18 | 14.37 | 15.13 | 16.36 | 18.37          | 19.12 | 19.31 | 20.07 | 21.30 |
|                 | 4H   | 13.81            | 14.52 | 14.76 | 15.47 | 16.71 | 18.86          | 19.57 | 19.81 | 20.52 | 21.76 |
|                 | 6H   | 14.09            | 14.74 | 15.05 | 15.70 | 16.96 | 19.17          | 19.82 | 20.13 | 20.78 | 22.04 |
|                 | 8H   | 14.18            | 14.80 | 15.15 | 15.77 | 17.03 | 19.25          | 19.87 | 20.22 | 20.84 | 22.10 |
|                 | 12H  | 14.23            | 14.82 | 15.21 | 15.79 | 17.06 | 19.28          | 19.87 | 20.26 | 20.84 | 22.12 |
| 4H              | 2H   | 12.93            | 13.64 | 13.89 | 14.59 | 15.83 | 16.86          | 17.57 | 17.82 | 18.53 | 19.77 |
|                 | 3H   | 14.30            | 14.89 | 15.27 | 15.87 | 17.13 | 18.52          | 19.11 | 19.49 | 20.10 | 21.35 |
|                 | 4H   | 14.75            | 15.29 | 15.73 | 16.27 | 17.55 | 19.13          | 19.67 | 20.11 | 20.64 | 21.92 |
|                 | 6H   | 15.12            | 15.58 | 16.11 | 16.58 | 17.86 | 19.57          | 20.03 | 20.56 | 21.03 | 22.31 |
|                 | 8H   | 15.25            | 15.68 | 16.24 | 16.67 | 17.96 | 19.70          | 20.13 | 20.69 | 21.12 | 22.42 |
|                 | 12H  | 15.32            | 15.71 | 16.33 | 16.72 | 18.02 | 19.76          | 20.15 | 20.77 | 21.16 | 22.46 |
| 8H              | 4H   | 15.07            | 15.50 | 16.06 | 16.49 | 17.79 | 19.10          | 19.53 | 20.09 | 20.52 | 21.81 |
|                 | 6H   | 15.53            | 15.89 | 16.55 | 16.92 | 18.21 | 19.59          | 19.95 | 20.61 | 20.98 | 22.28 |
|                 | 8H   | 15.73            | 16.04 | 16.75 | 17.06 | 18.37 | 19.78          | 20.09 | 20.80 | 21.11 | 22.42 |
|                 | 12H  | 15.87            | 16.14 | 16.89 | 17.16 | 18.51 | 19.90          | 20.17 | 20.92 | 21.19 | 22.54 |
| 12H             | 4H   | 15.08            | 15.47 | 16.09 | 16.48 | 17.78 | 19.05          | 19.44 | 20.06 | 20.45 | 21.74 |
|                 | 6H   | 15.59            | 15.90 | 16.62 | 16.93 | 18.24 | 19.57          | 19.88 | 20.59 | 20.90 | 22.21 |
|                 | 8H   | 15.81            | 16.09 | 16.84 | 17.10 | 18.46 | 19.76          | 20.04 | 20.79 | 21.05 | 22.41 |