

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: P832352

Luminaire Tested: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832352  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S775D1195U935-4F0-1E-UDD-G4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: -

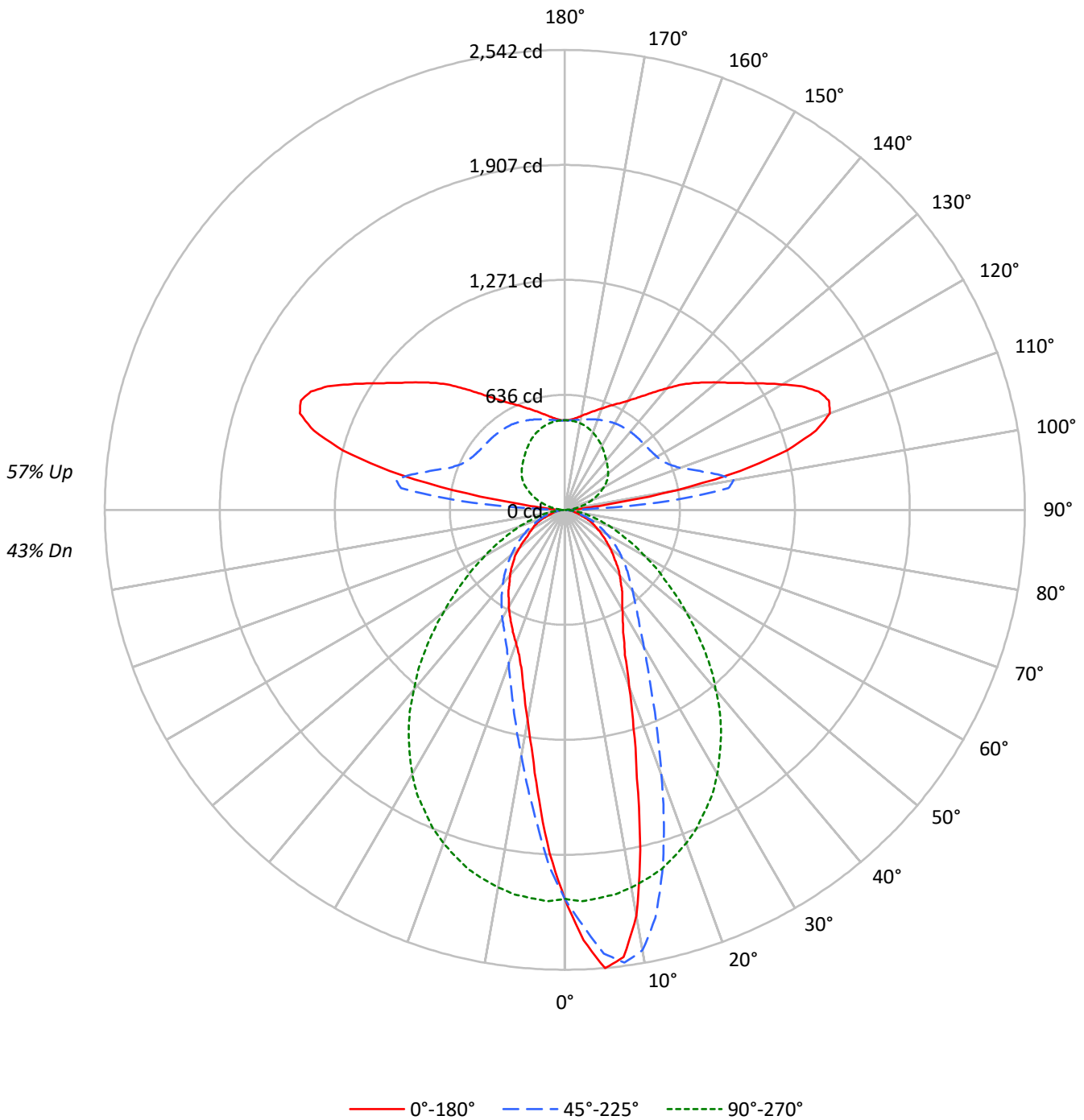
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6569.8 lumens  
Efficiency: N/A  
Efficacy: 115.5 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): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

### Luminous Intensity Polar Plot





TEST NUMBER: P832352

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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |    |    |    |   |
| 1   | 97  | 93  | 89  | 86  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 56 | 55 | 45 | 44 | 44 | 38 |    |    |    |   |
| 2   | 89  | 82  | 76  | 72  | 81 | 75 | 71 | 66 | 63 | 59 | 56 | 51 | 49 | 47 | 41 | 39 | 38 | 33 |    |    |    |   |
| 3   | 82  | 73  | 66  | 61  | 75 | 67 | 61 | 56 | 56 | 52 | 48 | 46 | 43 | 41 | 37 | 35 | 33 | 29 |    |    |    |   |
| 4   | 75  | 65  | 58  | 52  | 69 | 60 | 54 | 49 | 50 | 46 | 42 | 42 | 38 | 36 | 33 | 31 | 29 | 26 |    |    |    |   |
| 5   | 69  | 58  | 51  | 45  | 63 | 54 | 47 | 42 | 46 | 41 | 37 | 38 | 34 | 31 | 31 | 28 | 26 | 23 |    |    |    |   |
| 6   | 64  | 53  | 45  | 40  | 59 | 49 | 42 | 37 | 41 | 36 | 33 | 35 | 31 | 28 | 28 | 26 | 23 | 21 |    |    |    |   |
| 7   | 59  | 48  | 40  | 35  | 54 | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 | 19 |    |    |    |   |
| 8   | 55  | 44  | 36  | 31  | 51 | 41 | 34 | 30 | 35 | 30 | 26 | 29 | 26 | 23 | 24 | 21 | 19 | 17 |    |    |    |   |
| 9   | 52  | 40  | 33  | 28  | 48 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 23 | 20 | 18 | 16 |    |    |    |   |
| 10  | 48  | 37  | 30  | 26  | 45 | 35 | 28 | 24 | 30 | 25 | 22 | 25 | 22 | 19 | 21 | 18 | 16 | 15 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 23137 | 23137 | 23137 | 23137 | 23137 |
| 5°  | 27472 | 26596 | 23282 | 18821 | 17474 |
| 10° | 24890 | 27015 | 23166 | 15080 | 12937 |
| 15° | 17137 | 23162 | 22921 | 12325 | 10233 |
| 20° | 11922 | 17833 | 22462 | 10393 | 8994  |
| 25° | 9086  | 13592 | 21791 | 9236  | 8290  |
| 30° | 7909  | 10866 | 20954 | 8576  | 7679  |
| 35° | 7261  | 9165  | 19768 | 8020  | 7122  |
| 40° | 6625  | 8185  | 18216 | 7474  | 6613  |
| 45° | 5984  | 7486  | 16541 | 6955  | 6104  |
| 50° | 5431  | 6906  | 14565 | 6449  | 5476  |
| 55° | 4911  | 6343  | 12669 | 5955  | 4697  |
| 60° | 4402  | 5767  | 11003 | 5408  | 4439  |
| 65° | 4062  | 5117  | 9472  | 4860  | 4197  |
| 70° | 3301  | 4425  | 8264  | 4397  | 3412  |
| 75° | 2895  | 3518  | 6999  | 3647  | 3007  |
| 80° | 2622  | 2975  | 5734  | 3062  | 2839  |
| 85° | 2396  | 2618  | 4360  | 2779  | 2618  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 17454 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.9  | 3.0       |
| 10°-20°   | 453.4  | 6.9       |
| 20°-30°   | 520.2  | 7.9       |
| 30°-40°   | 512.7  | 7.8       |
| 40°-50°   | 452.1  | 6.9       |
| 50°-60°   | 347.8  | 5.3       |
| 60°-70°   | 228.7  | 3.5       |
| 70°-80°   | 111.1  | 1.7       |
| 80°-90°   | 30.7   | 0.5       |
| 90°-100°  | 268.2  | 4.1       |
| 100°-110° | 785.1  | 11.9      |
| 110°-120° | 766.7  | 11.7      |
| 120°-130° | 610.6  | 9.3       |
| 130°-140° | 481.7  | 7.3       |
| 140°-150° | 359.4  | 5.5       |
| 150°-160° | 250.6  | 3.8       |
| 160°-170° | 147.2  | 2.2       |
| 170°-180° | 47.9   | 0.7       |
| 0°-30°    | 1169.4 | 17.8      |
| 0°-40°    | 1682.1 | 25.6      |
| 0°-60°    | 2482.1 | 37.8      |
| 0°-90°    | 2852.6 | 43.4      |
| 90°-120°  | 1819.9 | 27.7      |
| 90°-150°  | 3271.6 | 49.8      |
| 90°-180°  | 3717.0 | 56.6      |
| 0°-180°   | 6569.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2150 | 2150 | 2150 | 2150 | 2150 |      |
| 5°   | 2542 | 2461 | 2155 | 1742 | 1617 | 232  |
| 15°  | 1538 | 2078 | 2057 | 1106 | 918  | 434  |
| 25°  | 765  | 1144 | 1835 | 778  | 698  | 361  |
| 35°  | 553  | 698  | 1504 | 610  | 542  | 344  |
| 45°  | 393  | 492  | 1087 | 457  | 401  | 305  |
| 55°  | 262  | 338  | 675  | 317  | 250  | 235  |
| 65°  | 160  | 201  | 372  | 191  | 165  | 156  |
| 75°  | 70   | 85   | 168  | 88   | 72   | 75   |
| 85°  | 19   | 21   | 35   | 22   | 21   | 21   |
| 90°  | 29   | 25   | 2    | 25   | 29   | 16   |
| 95°  | 116  | 593  | 34   | 593  | 116  | 189  |
| 105° | 1272 | 804  | 116  | 804  | 1272 | 1269 |
| 115° | 1548 | 615  | 205  | 615  | 1548 | 1509 |
| 125° | 1220 | 574  | 285  | 574  | 1220 | 1104 |
| 135° | 989  | 566  | 334  | 566  | 989  | 767  |
| 145° | 773  | 559  | 381  | 559  | 773  | 491  |
| 155° | 641  | 541  | 433  | 541  | 641  | 299  |
| 165° | 559  | 518  | 473  | 518  | 559  | 160  |
| 175° | 503  | 497  | 493  | 497  | 503  | 49   |
| 180° | 494  | 494  | 494  | 494  | 494  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 |
| 2.5°   | 2382.1 | 2374.6 | 2367.1 | 2364.9 | 2362.7 | 2355.7 | 2348.6 | 2332.8 | 2316.9 | 2300.6 | 2284.3 |
| 5°     | 2542.5 | 2543.4 | 2544.3 | 2542.1 | 2539.9 | 2530.6 | 2521.4 | 2502.0 | 2482.6 | 2461.4 | 2440.3 |
| 7.5°   | 2493.2 | 2507.3 | 2521.4 | 2524.0 | 2526.6 | 2533.7 | 2540.7 | 2536.3 | 2531.9 | 2524.0 | 2516.1 |
| 10°    | 2277.2 | 2276.4 | 2275.5 | 2291.3 | 2307.2 | 2354.4 | 2401.5 | 2425.7 | 2450.0 | 2471.6 | 2493.2 |
| 12.5°  | 1924.7 | 1926.1 | 1927.4 | 1979.4 | 2031.4 | 2075.9 | 2120.4 | 2182.1 | 2243.8 | 2310.3 | 2376.8 |
| 15°    | 1537.8 | 1559.4 | 1581.0 | 1627.3 | 1673.6 | 1740.5 | 1807.5 | 1890.4 | 1973.2 | 2078.5 | 2183.8 |
| 17.5°  | 1262.9 | 1272.1 | 1281.4 | 1325.9 | 1370.4 | 1433.9 | 1497.3 | 1591.2 | 1685.0 | 1820.7 | 1956.5 |
| 20°    | 1040.8 | 1049.2 | 1057.5 | 1089.7 | 1121.9 | 1182.7 | 1243.5 | 1332.9 | 1422.4 | 1556.8 | 1691.2 |
| 22.5°  | 868.9  | 885.3  | 901.6  | 923.1  | 944.7  | 988.8  | 1032.9 | 1124.1 | 1215.3 | 1337.8 | 1460.3 |
| 25°    | 765.0  | 772.4  | 779.9  | 798.4  | 817.0  | 859.3  | 901.6  | 961.9  | 1022.3 | 1144.4 | 1266.4 |
| 27.5°  | 694.5  | 696.7  | 698.9  | 712.5  | 726.2  | 753.5  | 780.8  | 836.8  | 892.7  | 993.2  | 1093.7 |
| 30°    | 636.3  | 640.3  | 644.2  | 654.8  | 665.4  | 685.2  | 705.0  | 744.7  | 784.3  | 874.2  | 964.1  |
| 32.5°  | 591.3  | 593.5  | 595.7  | 604.6  | 613.4  | 627.9  | 642.5  | 673.7  | 705.0  | 773.8  | 842.5  |
| 35°    | 552.6  | 553.0  | 553.4  | 560.1  | 566.7  | 580.8  | 594.9  | 620.9  | 646.9  | 697.5  | 748.2  |
| 37.5°  | 508.5  | 511.6  | 514.7  | 519.5  | 524.4  | 536.7  | 549.0  | 570.2  | 591.3  | 633.2  | 675.1  |
| 40°    | 471.5  | 474.1  | 476.8  | 482.5  | 488.2  | 497.9  | 507.6  | 527.0  | 546.4  | 582.5  | 618.7  |
| 42.5°  | 434.5  | 436.2  | 438.0  | 443.7  | 449.5  | 461.4  | 473.3  | 488.7  | 504.1  | 534.1  | 564.0  |
| 45°    | 393.1  | 397.5  | 401.9  | 408.0  | 414.2  | 424.3  | 434.5  | 450.3  | 466.2  | 491.8  | 517.3  |
| 47.5°  | 358.7  | 360.9  | 363.1  | 368.4  | 373.7  | 386.0  | 398.3  | 412.4  | 426.5  | 450.3  | 474.1  |
| 50°    | 324.3  | 325.2  | 326.1  | 330.9  | 335.8  | 346.8  | 357.8  | 374.1  | 390.4  | 412.4  | 434.5  |
| 52.5°  | 291.7  | 293.9  | 296.1  | 301.0  | 305.8  | 313.3  | 320.8  | 337.5  | 354.3  | 375.9  | 397.5  |
| 55°    | 261.7  | 263.1  | 264.4  | 267.9  | 271.4  | 280.2  | 289.1  | 303.6  | 318.1  | 338.0  | 357.8  |
| 57.5°  | 233.5  | 235.3  | 237.1  | 239.7  | 242.4  | 250.3  | 258.2  | 271.0  | 283.8  | 303.6  | 323.4  |
| 60°    | 204.5  | 206.7  | 208.9  | 211.9  | 215.0  | 221.2  | 227.4  | 238.8  | 250.3  | 267.9  | 285.5  |
| 62.5°  | 183.3  | 183.7  | 184.2  | 186.8  | 189.5  | 193.9  | 198.3  | 207.5  | 216.8  | 234.4  | 252.0  |
| 65°    | 159.5  | 160.8  | 162.2  | 163.5  | 164.8  | 168.3  | 171.9  | 179.8  | 187.7  | 200.9  | 214.2  |
| 67.5°  | 134.8  | 136.2  | 137.5  | 139.7  | 141.9  | 145.0  | 148.1  | 153.3  | 158.6  | 171.0  | 183.3  |
| 70°    | 104.9  | 104.9  | 104.9  | 108.4  | 111.9  | 117.2  | 122.5  | 126.5  | 130.4  | 140.6  | 150.7  |
| 72.5°  | 85.5   | 85.9   | 86.4   | 86.8   | 87.2   | 90.3   | 93.4   | 100.0  | 106.6  | 112.8  | 119.0  |
| 75°    | 69.6   | 70.1   | 70.5   | 70.9   | 71.4   | 72.3   | 73.1   | 75.3   | 77.6   | 84.6   | 91.7   |
| 77.5°  | 55.5   | 56.0   | 56.4   | 56.8   | 57.3   | 58.2   | 59.0   | 59.9   | 60.8   | 63.5   | 66.1   |
| 80°    | 42.3   | 42.7   | 43.2   | 43.6   | 44.1   | 44.5   | 44.9   | 45.8   | 46.7   | 48.0   | 49.4   |
| 82.5°  | 30.8   | 30.8   | 30.8   | 30.8   | 30.8   | 31.7   | 32.6   | 32.6   | 32.6   | 33.5   | 34.4   |
| 85°    | 19.4   | 19.4   | 19.4   | 19.8   | 20.3   | 20.3   | 20.3   | 20.7   | 21.2   | 21.2   | 21.2   |
| 87.5°  | 8.8    | 8.4    | 7.9    | 8.4    | 8.8    | 8.8    | 8.8    | 9.3    | 9.7    | 9.7    | 9.7    |
| 90°    | 29.0   | 30.0   | 29.0   | 28.0   | 29.0   | 27.0   | 26.0   | 25.0   | 24.0   | 25.0   | 22.0   |
| 92.5°  | 53.0   | 55.0   | 54.0   | 58.0   | 60.0   | 67.0   | 77.0   | 99.0   | 139.0  | 186.1  | 206.1  |
| 95°    | 116.0  | 120.0  | 127.0  | 136.0  | 155.1  | 191.1  | 244.1  | 360.1  | 481.2  | 593.2  | 528.2  |
| 97.5°  | 238.1  | 249.1  | 273.1  | 311.1  | 378.1  | 492.2  | 624.2  | 827.3  | 943.3  | 912.3  | 681.2  |
| 100°   | 627.2  | 626.2  | 665.2  | 738.3  | 839.3  | 981.3  | 1098.4 | 1179.4 | 1144.4 | 947.3  | 640.2  |
| 102.5° | 993.3  | 1022.4 | 1053.4 | 1107.4 | 1180.4 | 1257.4 | 1313.5 | 1296.5 | 1154.4 | 882.3  | 580.2  |
| 105°   | 1272.4 | 1277.4 | 1309.5 | 1347.5 | 1393.5 | 1419.5 | 1400.5 | 1300.5 | 1091.4 | 804.3  | 533.2  |
| 107.5° | 1454.5 | 1465.5 | 1478.5 | 1496.5 | 1502.5 | 1475.5 | 1397.5 | 1240.4 | 1001.3 | 735.3  | 499.2  |
| 110°   | 1558.5 | 1560.5 | 1562.5 | 1554.5 | 1526.5 | 1456.5 | 1330.5 | 1146.4 | 917.3  | 678.2  | 481.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°   | 45°   | 50°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 112.5° | 1579.5 | 1578.5 | 1568.5 | 1539.5 | 1482.5 | 1387.5 | 1242.4 | 1053.4 | 844.3 | 640.2 | 471.2 |
| 115°   | 1547.5 | 1542.5 | 1522.5 | 1478.5 | 1403.5 | 1294.5 | 1147.4 | 973.3  | 788.3 | 615.2 | 470.2 |
| 117.5° | 1477.5 | 1470.5 | 1440.5 | 1391.5 | 1313.5 | 1200.4 | 1065.4 | 911.3  | 751.3 | 598.2 | 471.2 |
| 120°   | 1385.5 | 1379.5 | 1355.5 | 1299.5 | 1220.4 | 1119.4 | 999.3  | 864.3  | 723.3 | 587.2 | 475.2 |
| 122.5° | 1299.5 | 1291.4 | 1264.4 | 1215.4 | 1147.4 | 1055.4 | 946.3  | 827.3  | 700.2 | 580.2 | 482.2 |
| 125°   | 1220.4 | 1213.4 | 1188.4 | 1144.4 | 1080.4 | 1000.3 | 904.3  | 795.3  | 681.2 | 574.2 | 489.2 |
| 127.5° | 1152.4 | 1146.4 | 1123.4 | 1085.4 | 1027.4 | 953.3  | 865.3  | 766.3  | 663.2 | 571.2 | 497.2 |
| 130°   | 1096.4 | 1088.4 | 1067.4 | 1031.4 | 978.3  | 910.3  | 829.3  | 739.3  | 649.2 | 568.2 | 505.2 |
| 132.5° | 1041.4 | 1036.4 | 1018.4 | 982.3  | 933.3  | 869.3  | 795.3  | 714.2  | 636.2 | 567.2 | 511.2 |
| 135°   | 989.3  | 982.3  | 964.3  | 934.3  | 885.3  | 828.3  | 763.3  | 692.2  | 625.2 | 566.2 | 517.2 |
| 137.5° | 934.3  | 928.3  | 913.3  | 882.3  | 840.3  | 789.3  | 731.3  | 671.2  | 615.2 | 564.2 | 521.2 |
| 140°   | 876.3  | 877.3  | 861.3  | 833.3  | 795.3  | 752.3  | 704.2  | 653.2  | 606.2 | 563.2 | 525.2 |
| 142.5° | 822.3  | 823.3  | 809.3  | 785.3  | 754.3  | 718.3  | 678.2  | 636.2  | 598.2 | 561.2 | 528.2 |
| 145°   | 773.3  | 771.3  | 763.3  | 742.3  | 717.2  | 688.2  | 656.2  | 623.2  | 591.2 | 559.2 | 529.2 |
| 147.5° | 731.3  | 730.3  | 722.3  | 707.2  | 687.2  | 666.2  | 639.2  | 612.2  | 584.2 | 556.2 | 529.2 |
| 150°   | 695.2  | 695.2  | 689.2  | 678.2  | 663.2  | 644.2  | 623.2  | 600.2  | 577.2 | 552.2 | 529.2 |
| 152.5° | 665.2  | 665.2  | 662.2  | 652.2  | 641.2  | 626.2  | 608.2  | 589.2  | 569.2 | 547.2 | 526.2 |
| 155°   | 641.2  | 640.2  | 638.2  | 630.2  | 621.2  | 609.2  | 594.2  | 578.2  | 561.2 | 541.2 | 524.2 |
| 157.5° | 618.2  | 618.2  | 616.2  | 610.2  | 602.2  | 592.2  | 580.2  | 566.2  | 552.2 | 536.2 | 521.2 |
| 160°   | 596.2  | 597.2  | 597.2  | 591.2  | 584.2  | 577.2  | 567.2  | 556.2  | 543.2 | 530.2 | 519.2 |
| 162.5° | 576.2  | 577.2  | 577.2  | 572.2  | 568.2  | 562.2  | 553.2  | 544.2  | 534.2 | 524.2 | 515.2 |
| 165°   | 559.2  | 559.2  | 560.2  | 556.2  | 552.2  | 547.2  | 540.2  | 534.2  | 526.2 | 518.2 | 511.2 |
| 167.5° | 542.2  | 542.2  | 543.2  | 540.2  | 538.2  | 534.2  | 530.2  | 525.2  | 518.2 | 512.2 | 507.2 |
| 170°   | 527.2  | 527.2  | 528.2  | 526.2  | 525.2  | 523.2  | 519.2  | 516.2  | 511.2 | 506.2 | 503.2 |
| 172.5° | 513.2  | 514.2  | 516.2  | 514.2  | 514.2  | 513.2  | 510.2  | 508.2  | 504.2 | 501.2 | 500.2 |
| 175°   | 503.2  | 504.2  | 505.2  | 504.2  | 504.2  | 504.2  | 502.2  | 501.2  | 499.2 | 497.2 | 497.2 |
| 177.5° | 496.2  | 496.2  | 498.2  | 497.2  | 498.2  | 498.2  | 497.2  | 496.2  | 495.2 | 494.2 | 495.2 |
| 180°   | 494.2  | 494.2  | 494.2  | 494.2  | 494.2  | 494.2  | 494.2  | 494.2  | 494.2 | 494.2 | 494.2 |



TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 |
| 2.5°   | 2282.1 | 2279.9 | 2258.7 | 2237.6 | 2216.9 | 2196.2 | 2180.7 | 2165.3 | 2139.3 | 2113.3 | 2097.0 |
| 5°     | 2423.5 | 2406.8 | 2373.3 | 2339.8 | 2289.6 | 2239.3 | 2197.0 | 2154.7 | 2101.0 | 2047.2 | 2002.3 |
| 7.5°   | 2502.4 | 2488.8 | 2448.2 | 2407.7 | 2341.1 | 2274.6 | 2208.5 | 2142.4 | 2063.1 | 1983.8 | 1915.9 |
| 10°    | 2504.6 | 2516.1 | 2482.6 | 2449.1 | 2374.2 | 2299.3 | 2209.4 | 2119.5 | 2012.9 | 1906.2 | 1818.5 |
| 12.5°  | 2426.2 | 2475.5 | 2468.5 | 2461.4 | 2385.2 | 2309.0 | 2199.7 | 2090.4 | 1959.5 | 1828.7 | 1718.9 |
| 15°    | 2279.4 | 2375.1 | 2403.3 | 2431.5 | 2368.5 | 2305.4 | 2181.2 | 2056.9 | 1903.1 | 1749.4 | 1623.3 |
| 17.5°  | 2090.4 | 2224.4 | 2298.8 | 2373.3 | 2327.5 | 2281.7 | 2145.5 | 2009.3 | 1836.2 | 1663.0 | 1525.9 |
| 20°    | 1866.6 | 2041.9 | 2158.7 | 2275.5 | 2258.7 | 2242.0 | 2101.4 | 1960.9 | 1774.0 | 1587.2 | 1438.7 |
| 22.5°  | 1645.4 | 1830.4 | 1991.7 | 2153.0 | 2170.2 | 2187.4 | 2045.5 | 1903.6 | 1699.1 | 1494.7 | 1343.5 |
| 25°    | 1454.6 | 1642.7 | 1834.8 | 2027.0 | 2065.7 | 2104.5 | 1969.7 | 1834.8 | 1622.9 | 1410.9 | 1260.7 |
| 27.5°  | 1272.6 | 1451.5 | 1663.0 | 1874.5 | 1945.0 | 2015.5 | 1892.1 | 1768.7 | 1548.0 | 1327.2 | 1177.4 |
| 30°    | 1124.1 | 1284.0 | 1499.9 | 1715.9 | 1814.1 | 1912.4 | 1799.1 | 1685.9 | 1466.9 | 1247.9 | 1101.2 |
| 32.5°  | 985.7  | 1128.9 | 1345.7 | 1562.5 | 1676.6 | 1790.8 | 1693.0 | 1595.1 | 1384.5 | 1173.9 | 1028.9 |
| 35°    | 876.4  | 1004.7 | 1206.9 | 1409.2 | 1537.0 | 1664.7 | 1584.6 | 1504.4 | 1298.6 | 1092.8 | 955.8  |
| 37.5°  | 782.6  | 890.1  | 1080.0 | 1269.9 | 1405.7 | 1541.4 | 1474.4 | 1407.4 | 1214.0 | 1020.5 | 891.0  |
| 40°    | 705.0  | 791.4  | 968.1  | 1144.8 | 1277.9 | 1410.9 | 1353.7 | 1296.4 | 1123.2 | 950.0  | 828.8  |
| 42.5°  | 638.5  | 713.0  | 871.6  | 1030.2 | 1152.3 | 1274.3 | 1236.4 | 1198.5 | 1041.7 | 884.8  | 772.4  |
| 45°    | 579.9  | 642.5  | 782.1  | 921.8  | 1034.2 | 1146.6 | 1116.6 | 1086.6 | 951.3  | 816.1  | 713.0  |
| 47.5°  | 527.9  | 581.6  | 706.4  | 831.1  | 932.0  | 1032.9 | 1005.1 | 977.3  | 865.4  | 753.5  | 659.6  |
| 50°    | 480.3  | 526.1  | 630.1  | 734.1  | 824.9  | 915.7  | 892.7  | 869.8  | 777.3  | 684.8  | 603.7  |
| 52.5°  | 435.4  | 473.3  | 566.7  | 660.1  | 733.2  | 806.4  | 788.8  | 771.1  | 699.7  | 628.4  | 554.8  |
| 55°    | 392.6  | 427.4  | 506.3  | 585.2  | 647.7  | 710.3  | 692.7  | 675.1  | 619.5  | 564.0  | 499.2  |
| 57.5°  | 353.8  | 384.2  | 448.1  | 512.0  | 561.8  | 611.6  | 603.2  | 594.9  | 548.6  | 502.3  | 449.0  |
| 60°    | 312.9  | 340.2  | 395.3  | 450.3  | 490.4  | 530.5  | 520.8  | 511.1  | 478.1  | 445.0  | 399.2  |
| 62.5°  | 276.3  | 300.5  | 344.6  | 388.6  | 421.3  | 453.9  | 446.8  | 439.8  | 414.6  | 389.5  | 351.6  |
| 65°    | 237.9  | 261.7  | 297.4  | 333.1  | 358.7  | 384.2  | 378.1  | 371.9  | 353.0  | 334.0  | 303.6  |
| 67.5°  | 203.1  | 223.0  | 253.8  | 284.7  | 301.8  | 319.0  | 315.5  | 312.0  | 297.4  | 282.9  | 259.1  |
| 70°    | 167.9  | 185.1  | 210.6  | 236.2  | 248.1  | 260.0  | 261.3  | 262.6  | 249.4  | 236.2  | 218.6  |
| 72.5°  | 132.6  | 146.3  | 170.1  | 193.9  | 203.1  | 212.4  | 211.9  | 211.5  | 203.6  | 195.6  | 179.8  |
| 75°    | 101.8  | 111.9  | 130.4  | 148.9  | 156.9  | 164.8  | 166.6  | 168.3  | 160.8  | 153.3  | 144.5  |
| 77.5°  | 73.1   | 80.2   | 94.3   | 108.4  | 117.2  | 126.0  | 126.9  | 127.8  | 124.3  | 120.7  | 112.4  |
| 80°    | 51.6   | 53.8   | 62.6   | 71.4   | 80.6   | 89.9   | 91.2   | 92.5   | 89.0   | 85.5   | 80.2   |
| 82.5°  | 35.7   | 37.0   | 40.1   | 43.2   | 50.7   | 58.2   | 59.9   | 61.7   | 59.9   | 58.2   | 52.4   |
| 85°    | 21.6   | 22.0   | 23.4   | 24.7   | 28.2   | 31.7   | 33.5   | 35.3   | 34.4   | 33.5   | 30.4   |
| 87.5°  | 9.7    | 9.7    | 10.1   | 10.6   | 11.5   | 12.3   | 14.5   | 16.7   | 15.4   | 14.1   | 12.8   |
| 90°    | 19.0   | 16.0   | 13.0   | 11.0   | 9.0    | 6.0    | 4.0    | 2.0    | 4.0    | 6.0    | 9.0    |
| 92.5°  | 154.1  | 101.0  | 69.0   | 51.0   | 41.0   | 32.0   | 22.0   | 15.0   | 22.0   | 32.0   | 41.0   |
| 95°    | 364.1  | 215.1  | 130.0  | 91.0   | 65.0   | 48.0   | 37.0   | 34.0   | 37.0   | 48.0   | 65.0   |
| 97.5°  | 405.1  | 232.1  | 148.1  | 105.0  | 79.0   | 64.0   | 55.0   | 54.0   | 55.0   | 64.0   | 79.0   |
| 100°   | 377.1  | 229.1  | 159.1  | 120.0  | 96.0   | 82.0   | 75.0   | 74.0   | 75.0   | 82.0   | 96.0   |
| 102.5° | 353.1  | 233.1  | 172.1  | 137.0  | 116.0  | 103.0  | 97.0   | 95.0   | 97.0   | 103.0  | 116.0  |
| 105°   | 344.1  | 241.1  | 187.1  | 156.1  | 137.0  | 125.0  | 119.0  | 116.0  | 119.0  | 125.0  | 137.0  |
| 107.5° | 342.1  | 254.1  | 206.1  | 177.1  | 159.1  | 147.1  | 141.0  | 138.0  | 141.0  | 147.1  | 159.1  |
| 110°   | 347.1  | 271.1  | 226.1  | 198.1  | 181.1  | 170.1  | 165.1  | 162.1  | 165.1  | 170.1  | 181.1  |





TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 357.1 | 288.1 | 247.1 | 220.1 | 203.1 | 192.1 | 187.1 | 184.1 | 187.1 | 192.1 | 203.1 |
| 115°   | 368.1 | 307.1 | 269.1 | 242.1 | 225.1 | 215.1 | 209.1 | 205.1 | 209.1 | 215.1 | 225.1 |
| 117.5° | 382.1 | 327.1 | 289.1 | 264.1 | 245.1 | 236.1 | 231.1 | 226.1 | 231.1 | 236.1 | 245.1 |
| 120°   | 398.1 | 346.1 | 310.1 | 285.1 | 266.1 | 256.1 | 251.1 | 248.1 | 251.1 | 256.1 | 266.1 |
| 122.5° | 413.1 | 366.1 | 331.1 | 304.1 | 286.1 | 275.1 | 270.1 | 267.1 | 270.1 | 275.1 | 286.1 |
| 125°   | 429.1 | 385.1 | 350.1 | 323.1 | 304.1 | 293.1 | 287.1 | 285.1 | 287.1 | 293.1 | 304.1 |
| 127.5° | 442.2 | 402.1 | 368.1 | 341.1 | 320.1 | 309.1 | 302.1 | 299.1 | 302.1 | 309.1 | 320.1 |
| 130°   | 455.2 | 417.1 | 384.1 | 357.1 | 336.1 | 324.1 | 315.1 | 312.1 | 315.1 | 324.1 | 336.1 |
| 132.5° | 467.2 | 430.1 | 398.1 | 372.1 | 351.1 | 336.1 | 326.1 | 322.1 | 326.1 | 336.1 | 351.1 |
| 135°   | 477.2 | 443.2 | 412.1 | 385.1 | 364.1 | 349.1 | 338.1 | 334.1 | 338.1 | 349.1 | 364.1 |
| 137.5° | 485.2 | 452.2 | 422.1 | 397.1 | 376.1 | 360.1 | 349.1 | 345.1 | 349.1 | 360.1 | 376.1 |
| 140°   | 491.2 | 461.2 | 432.2 | 407.1 | 387.1 | 371.1 | 361.1 | 356.1 | 361.1 | 371.1 | 387.1 |
| 142.5° | 497.2 | 468.2 | 440.2 | 417.1 | 397.1 | 383.1 | 372.1 | 368.1 | 372.1 | 383.1 | 397.1 |
| 145°   | 501.2 | 474.2 | 448.2 | 425.1 | 408.1 | 393.1 | 384.1 | 381.1 | 384.1 | 393.1 | 408.1 |
| 147.5° | 504.2 | 479.2 | 455.2 | 435.2 | 418.1 | 405.1 | 396.1 | 394.1 | 396.1 | 405.1 | 418.1 |
| 150°   | 505.2 | 484.2 | 461.2 | 443.2 | 429.1 | 416.1 | 408.1 | 407.1 | 408.1 | 416.1 | 429.1 |
| 152.5° | 507.2 | 487.2 | 468.2 | 451.2 | 439.2 | 428.1 | 420.1 | 420.1 | 420.1 | 428.1 | 439.2 |
| 155°   | 507.2 | 491.2 | 474.2 | 460.2 | 449.2 | 439.2 | 433.2 | 433.2 | 433.2 | 439.2 | 449.2 |
| 157.5° | 508.2 | 493.2 | 479.2 | 468.2 | 458.2 | 449.2 | 444.2 | 443.2 | 444.2 | 449.2 | 458.2 |
| 160°   | 508.2 | 496.2 | 484.2 | 474.2 | 467.2 | 459.2 | 455.2 | 455.2 | 455.2 | 459.2 | 467.2 |
| 162.5° | 507.2 | 497.2 | 487.2 | 479.2 | 473.2 | 467.2 | 464.2 | 464.2 | 464.2 | 467.2 | 473.2 |
| 165°   | 505.2 | 498.2 | 490.2 | 483.2 | 479.2 | 474.2 | 472.2 | 473.2 | 472.2 | 474.2 | 479.2 |
| 167.5° | 504.2 | 498.2 | 492.2 | 487.2 | 484.2 | 480.2 | 479.2 | 480.2 | 479.2 | 480.2 | 484.2 |
| 170°   | 501.2 | 497.2 | 492.2 | 490.2 | 488.2 | 485.2 | 484.2 | 486.2 | 484.2 | 485.2 | 488.2 |
| 172.5° | 500.2 | 497.2 | 493.2 | 492.2 | 491.2 | 489.2 | 489.2 | 490.2 | 489.2 | 489.2 | 491.2 |
| 175°   | 498.2 | 496.2 | 494.2 | 493.2 | 493.2 | 491.2 | 492.2 | 493.2 | 492.2 | 491.2 | 493.2 |
| 177.5° | 497.2 | 495.2 | 494.2 | 494.2 | 494.2 | 493.2 | 494.2 | 495.2 | 494.2 | 493.2 | 494.2 |
| 180°   | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 |



TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 | 2149.5 |
| 2.5°   | 2080.7 | 2055.6 | 2030.5 | 2012.4 | 1994.4 | 1971.9 | 1949.4 | 1948.5 | 1947.6 | 1930.9 | 1914.2 |
| 5°     | 1957.3 | 1913.7 | 1870.1 | 1827.3 | 1784.6 | 1741.9 | 1699.1 | 1689.4 | 1679.7 | 1665.2 | 1650.6 |
| 7.5°   | 1848.1 | 1778.4 | 1708.8 | 1654.2 | 1599.5 | 1556.8 | 1514.0 | 1485.0 | 1455.9 | 1433.4 | 1410.9 |
| 10°    | 1730.8 | 1644.5 | 1558.1 | 1492.0 | 1425.9 | 1379.7 | 1333.4 | 1299.9 | 1266.4 | 1250.5 | 1234.7 |
| 12.5°  | 1609.2 | 1515.4 | 1421.5 | 1356.7 | 1292.0 | 1236.4 | 1180.9 | 1150.5 | 1120.1 | 1098.1 | 1076.1 |
| 15°    | 1497.3 | 1396.4 | 1295.5 | 1226.8 | 1158.0 | 1106.0 | 1054.0 | 1023.6 | 993.2  | 971.2  | 949.1  |
| 17.5°  | 1388.9 | 1287.1 | 1185.3 | 1115.7 | 1046.1 | 998.9  | 951.8  | 922.3  | 892.7  | 879.1  | 865.4  |
| 20°    | 1290.2 | 1187.5 | 1084.9 | 1019.2 | 953.6  | 907.3  | 861.0  | 845.2  | 829.3  | 816.5  | 803.7  |
| 22.5°  | 1192.4 | 1093.7 | 995.0  | 932.0  | 868.9  | 835.5  | 802.0  | 789.2  | 776.4  | 766.7  | 757.0  |
| 25°    | 1110.4 | 1012.2 | 913.9  | 858.8  | 803.7  | 777.7  | 751.7  | 743.4  | 735.0  | 725.3  | 715.6  |
| 27.5°  | 1027.6 | 934.2  | 840.7  | 796.7  | 752.6  | 731.5  | 710.3  | 699.7  | 689.2  | 681.2  | 673.3  |
| 30°    | 954.4  | 868.1  | 781.7  | 745.1  | 708.6  | 690.0  | 671.5  | 660.1  | 648.6  | 641.1  | 633.6  |
| 32.5°  | 883.9  | 807.3  | 730.6  | 699.3  | 668.0  | 649.9  | 631.9  | 620.9  | 609.9  | 601.0  | 592.2  |
| 35°    | 818.7  | 752.2  | 685.6  | 657.0  | 628.4  | 610.3  | 592.2  | 581.2  | 570.2  | 561.4  | 552.6  |
| 37.5°  | 761.4  | 701.1  | 640.7  | 613.8  | 586.9  | 571.1  | 555.2  | 543.8  | 532.3  | 523.0  | 513.8  |
| 40°    | 707.7  | 654.4  | 601.0  | 575.0  | 549.0  | 531.9  | 514.7  | 504.5  | 494.4  | 486.0  | 477.7  |
| 42.5°  | 660.1  | 611.2  | 562.3  | 536.7  | 511.1  | 494.8  | 478.5  | 466.6  | 454.7  | 449.9  | 445.0  |
| 45°    | 609.9  | 566.7  | 523.5  | 498.8  | 474.1  | 456.9  | 439.8  | 429.6  | 419.5  | 415.1  | 410.7  |
| 47.5°  | 565.8  | 525.7  | 485.6  | 461.4  | 437.1  | 421.7  | 406.3  | 398.3  | 390.4  | 384.2  | 378.1  |
| 50°    | 522.6  | 483.8  | 445.0  | 421.7  | 398.3  | 385.1  | 371.9  | 362.2  | 352.5  | 348.1  | 343.7  |
| 52.5°  | 481.2  | 445.9  | 410.7  | 386.9  | 363.1  | 350.3  | 337.5  | 329.2  | 320.8  | 311.5  | 302.3  |
| 55°    | 434.5  | 403.6  | 372.8  | 351.6  | 330.5  | 317.3  | 304.0  | 294.3  | 284.7  | 275.0  | 265.3  |
| 57.5°  | 395.7  | 365.3  | 334.9  | 315.9  | 297.0  | 284.2  | 271.4  | 260.9  | 250.3  | 242.4  | 234.4  |
| 60°    | 353.4  | 327.0  | 300.5  | 282.0  | 263.5  | 251.2  | 238.8  | 228.7  | 218.6  | 214.6  | 210.6  |
| 62.5°  | 313.7  | 289.1  | 264.4  | 248.1  | 231.8  | 219.9  | 208.0  | 201.4  | 194.8  | 192.1  | 189.5  |
| 65°    | 273.2  | 252.0  | 230.9  | 215.9  | 200.9  | 190.8  | 180.7  | 177.6  | 174.5  | 172.3  | 170.1  |
| 67.5°  | 235.3  | 217.2  | 199.2  | 186.0  | 172.7  | 165.7  | 158.6  | 155.1  | 151.6  | 148.9  | 146.3  |
| 70°    | 200.9  | 185.1  | 169.2  | 157.8  | 146.3  | 139.7  | 133.1  | 130.0  | 126.9  | 122.1  | 117.2  |
| 72.5°  | 163.9  | 151.6  | 139.2  | 130.4  | 121.6  | 115.9  | 110.2  | 104.0  | 97.8   | 93.4   | 89.0   |
| 75°    | 135.7  | 123.4  | 111.0  | 102.7  | 94.3   | 87.7   | 81.1   | 78.9   | 76.7   | 75.3   | 74.0   |
| 77.5°  | 104.0  | 93.4   | 82.8   | 76.2   | 69.6   | 66.5   | 63.5   | 62.1   | 60.8   | 60.4   | 59.9   |
| 80°    | 74.9   | 66.1   | 57.3   | 53.8   | 50.2   | 49.4   | 48.5   | 47.6   | 46.7   | 46.3   | 45.8   |
| 82.5°  | 46.7   | 42.3   | 37.9   | 37.0   | 36.1   | 35.7   | 35.3   | 34.8   | 34.4   | 33.9   | 33.5   |
| 85°    | 27.3   | 25.6   | 23.8   | 23.4   | 22.9   | 22.5   | 22.0   | 22.0   | 22.0   | 22.0   | 22.0   |
| 87.5°  | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.0   | 10.6   |
| 90°    | 11.0   | 13.0   | 16.0   | 19.0   | 22.0   | 25.0   | 24.0   | 25.0   | 26.0   | 27.0   | 29.0   |
| 92.5°  | 51.0   | 69.0   | 101.0  | 154.1  | 206.1  | 186.1  | 139.0  | 99.0   | 77.0   | 67.0   | 60.0   |
| 95°    | 91.0   | 130.0  | 215.1  | 364.1  | 528.2  | 593.2  | 481.2  | 360.1  | 244.1  | 191.1  | 155.1  |
| 97.5°  | 105.0  | 148.1  | 232.1  | 405.1  | 681.2  | 912.3  | 943.3  | 827.3  | 624.2  | 492.2  | 378.1  |
| 100°   | 120.0  | 159.1  | 229.1  | 377.1  | 640.2  | 947.3  | 1144.4 | 1179.4 | 1098.4 | 981.3  | 839.3  |
| 102.5° | 137.0  | 172.1  | 233.1  | 353.1  | 580.2  | 882.3  | 1154.4 | 1296.5 | 1313.5 | 1257.4 | 1180.4 |
| 105°   | 156.1  | 187.1  | 241.1  | 344.1  | 533.2  | 804.3  | 1091.4 | 1300.5 | 1400.5 | 1419.5 | 1393.5 |
| 107.5° | 177.1  | 206.1  | 254.1  | 342.1  | 499.2  | 735.3  | 1001.3 | 1240.4 | 1397.5 | 1475.5 | 1502.5 |
| 110°   | 198.1  | 226.1  | 271.1  | 347.1  | 481.2  | 678.2  | 917.3  | 1146.4 | 1330.5 | 1456.5 | 1526.5 |



TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°   | 150°   | 155°   | 160°   |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 220.1 | 247.1 | 288.1 | 357.1 | 471.2 | 640.2 | 844.3 | 1053.4 | 1242.4 | 1387.5 | 1482.5 |
| 115°   | 242.1 | 269.1 | 307.1 | 368.1 | 470.2 | 615.2 | 788.3 | 973.3  | 1147.4 | 1294.5 | 1403.5 |
| 117.5° | 264.1 | 289.1 | 327.1 | 382.1 | 471.2 | 598.2 | 751.3 | 911.3  | 1065.4 | 1200.4 | 1313.5 |
| 120°   | 285.1 | 310.1 | 346.1 | 398.1 | 475.2 | 587.2 | 723.3 | 864.3  | 999.3  | 1119.4 | 1220.4 |
| 122.5° | 304.1 | 331.1 | 366.1 | 413.1 | 482.2 | 580.2 | 700.2 | 827.3  | 946.3  | 1055.4 | 1147.4 |
| 125°   | 323.1 | 350.1 | 385.1 | 429.1 | 489.2 | 574.2 | 681.2 | 795.3  | 904.3  | 1000.3 | 1080.4 |
| 127.5° | 341.1 | 368.1 | 402.1 | 442.2 | 497.2 | 571.2 | 663.2 | 766.3  | 865.3  | 953.3  | 1027.4 |
| 130°   | 357.1 | 384.1 | 417.1 | 455.2 | 505.2 | 568.2 | 649.2 | 739.3  | 829.3  | 910.3  | 978.3  |
| 132.5° | 372.1 | 398.1 | 430.1 | 467.2 | 511.2 | 567.2 | 636.2 | 714.2  | 795.3  | 869.3  | 933.3  |
| 135°   | 385.1 | 412.1 | 443.2 | 477.2 | 517.2 | 566.2 | 625.2 | 692.2  | 763.3  | 828.3  | 885.3  |
| 137.5° | 397.1 | 422.1 | 452.2 | 485.2 | 521.2 | 564.2 | 615.2 | 671.2  | 731.3  | 789.3  | 840.3  |
| 140°   | 407.1 | 432.2 | 461.2 | 491.2 | 525.2 | 563.2 | 606.2 | 653.2  | 704.2  | 752.3  | 795.3  |
| 142.5° | 417.1 | 440.2 | 468.2 | 497.2 | 528.2 | 561.2 | 598.2 | 636.2  | 678.2  | 718.3  | 754.3  |
| 145°   | 425.1 | 448.2 | 474.2 | 501.2 | 529.2 | 559.2 | 591.2 | 623.2  | 656.2  | 688.2  | 717.2  |
| 147.5° | 435.2 | 455.2 | 479.2 | 504.2 | 529.2 | 556.2 | 584.2 | 612.2  | 639.2  | 666.2  | 687.2  |
| 150°   | 443.2 | 461.2 | 484.2 | 505.2 | 529.2 | 552.2 | 577.2 | 600.2  | 623.2  | 644.2  | 663.2  |
| 152.5° | 451.2 | 468.2 | 487.2 | 507.2 | 526.2 | 547.2 | 569.2 | 589.2  | 608.2  | 626.2  | 641.2  |
| 155°   | 460.2 | 474.2 | 491.2 | 507.2 | 524.2 | 541.2 | 561.2 | 578.2  | 594.2  | 609.2  | 621.2  |
| 157.5° | 468.2 | 479.2 | 493.2 | 508.2 | 521.2 | 536.2 | 552.2 | 566.2  | 580.2  | 592.2  | 602.2  |
| 160°   | 474.2 | 484.2 | 496.2 | 508.2 | 519.2 | 530.2 | 543.2 | 556.2  | 567.2  | 577.2  | 584.2  |
| 162.5° | 479.2 | 487.2 | 497.2 | 507.2 | 515.2 | 524.2 | 534.2 | 544.2  | 553.2  | 562.2  | 568.2  |
| 165°   | 483.2 | 490.2 | 498.2 | 505.2 | 511.2 | 518.2 | 526.2 | 534.2  | 540.2  | 547.2  | 552.2  |
| 167.5° | 487.2 | 492.2 | 498.2 | 504.2 | 507.2 | 512.2 | 518.2 | 525.2  | 530.2  | 534.2  | 538.2  |
| 170°   | 490.2 | 492.2 | 497.2 | 501.2 | 503.2 | 506.2 | 511.2 | 516.2  | 519.2  | 523.2  | 525.2  |
| 172.5° | 492.2 | 493.2 | 497.2 | 500.2 | 500.2 | 501.2 | 504.2 | 508.2  | 510.2  | 513.2  | 514.2  |
| 175°   | 493.2 | 494.2 | 496.2 | 498.2 | 497.2 | 497.2 | 499.2 | 501.2  | 502.2  | 504.2  | 504.2  |
| 177.5° | 494.2 | 494.2 | 495.2 | 497.2 | 495.2 | 494.2 | 495.2 | 496.2  | 497.2  | 498.2  | 498.2  |
| 180°   | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2 | 494.2  | 494.2  | 494.2  | 494.2  |



TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 0°     | 2149.5 | 2149.5 | 2149.5 | 2149.5 |
| 2.5°   | 1909.7 | 1905.3 | 1903.6 | 1901.8 |
| 5°     | 1637.0 | 1623.3 | 1620.2 | 1617.2 |
| 7.5°   | 1405.2 | 1399.5 | 1380.5 | 1361.6 |
| 10°    | 1217.1 | 1199.4 | 1191.5 | 1183.6 |
| 12.5°  | 1059.7 | 1043.4 | 1040.8 | 1038.2 |
| 15°    | 937.7  | 926.2  | 922.3  | 918.3  |
| 17.5°  | 857.5  | 849.6  | 844.7  | 839.9  |
| 20°    | 798.0  | 792.3  | 788.8  | 785.2  |
| 22.5°  | 752.6  | 748.2  | 745.6  | 742.9  |
| 25°    | 709.0  | 702.4  | 700.2  | 698.0  |
| 27.5°  | 667.6  | 661.8  | 659.6  | 657.4  |
| 30°    | 628.8  | 624.0  | 620.9  | 617.8  |
| 32.5°  | 586.5  | 580.8  | 579.0  | 577.2  |
| 35°    | 549.0  | 545.5  | 543.8  | 542.0  |
| 37.5°  | 509.4  | 505.0  | 502.3  | 499.7  |
| 40°    | 475.5  | 473.3  | 471.9  | 470.6  |
| 42.5°  | 441.1  | 437.1  | 436.7  | 436.2  |
| 45°    | 406.7  | 402.7  | 401.9  | 401.0  |
| 47.5°  | 374.5  | 371.0  | 370.6  | 370.1  |
| 50°    | 338.9  | 334.0  | 330.5  | 327.0  |
| 52.5°  | 297.9  | 293.5  | 290.4  | 287.3  |
| 55°    | 260.4  | 255.6  | 252.9  | 250.3  |
| 57.5°  | 232.2  | 230.0  | 228.7  | 227.4  |
| 60°    | 209.3  | 208.0  | 207.1  | 206.2  |
| 62.5°  | 188.2  | 186.8  | 186.8  | 186.8  |
| 65°    | 168.8  | 167.4  | 166.1  | 164.8  |
| 67.5°  | 143.6  | 141.0  | 140.6  | 140.1  |
| 70°    | 113.2  | 109.3  | 108.8  | 108.4  |
| 72.5°  | 88.6   | 88.1   | 87.2   | 86.4   |
| 75°    | 73.1   | 72.3   | 72.3   | 72.3   |
| 77.5°  | 59.0   | 58.2   | 58.2   | 58.2   |
| 80°    | 45.4   | 44.9   | 45.4   | 45.8   |
| 82.5°  | 33.5   | 33.5   | 33.0   | 32.6   |
| 85°    | 21.6   | 21.2   | 21.2   | 21.2   |
| 87.5°  | 10.6   | 10.6   | 10.6   | 10.6   |
| 90°    | 28.0   | 29.0   | 30.0   | 29.0   |
| 92.5°  | 58.0   | 54.0   | 55.0   | 53.0   |
| 95°    | 136.0  | 127.0  | 120.0  | 116.0  |
| 97.5°  | 311.1  | 273.1  | 249.1  | 238.1  |
| 100°   | 738.3  | 665.2  | 626.2  | 627.2  |
| 102.5° | 1107.4 | 1053.4 | 1022.4 | 993.3  |
| 105°   | 1347.5 | 1309.5 | 1277.4 | 1272.4 |
| 107.5° | 1496.5 | 1478.5 | 1465.5 | 1454.5 |
| 110°   | 1554.5 | 1562.5 | 1560.5 | 1558.5 |



TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 112.5° | 1539.5 | 1568.5 | 1578.5 | 1579.5 |
| 115°   | 1478.5 | 1522.5 | 1542.5 | 1547.5 |
| 117.5° | 1391.5 | 1440.5 | 1470.5 | 1477.5 |
| 120°   | 1299.5 | 1355.5 | 1379.5 | 1385.5 |
| 122.5° | 1215.4 | 1264.4 | 1291.4 | 1299.5 |
| 125°   | 1144.4 | 1188.4 | 1213.4 | 1220.4 |
| 127.5° | 1085.4 | 1123.4 | 1146.4 | 1152.4 |
| 130°   | 1031.4 | 1067.4 | 1088.4 | 1096.4 |
| 132.5° | 982.3  | 1018.4 | 1036.4 | 1041.4 |
| 135°   | 934.3  | 964.3  | 982.3  | 989.3  |
| 137.5° | 882.3  | 913.3  | 928.3  | 934.3  |
| 140°   | 833.3  | 861.3  | 877.3  | 876.3  |
| 142.5° | 785.3  | 809.3  | 823.3  | 822.3  |
| 145°   | 742.3  | 763.3  | 771.3  | 773.3  |
| 147.5° | 707.2  | 722.3  | 730.3  | 731.3  |
| 150°   | 678.2  | 689.2  | 695.2  | 695.2  |
| 152.5° | 652.2  | 662.2  | 665.2  | 665.2  |
| 155°   | 630.2  | 638.2  | 640.2  | 641.2  |
| 157.5° | 610.2  | 616.2  | 618.2  | 618.2  |
| 160°   | 591.2  | 597.2  | 597.2  | 596.2  |
| 162.5° | 572.2  | 577.2  | 577.2  | 576.2  |
| 165°   | 556.2  | 560.2  | 559.2  | 559.2  |
| 167.5° | 540.2  | 543.2  | 542.2  | 542.2  |
| 170°   | 526.2  | 528.2  | 527.2  | 527.2  |
| 172.5° | 514.2  | 516.2  | 514.2  | 513.2  |
| 175°   | 504.2  | 505.2  | 504.2  | 503.2  |
| 177.5° | 497.2  | 498.2  | 496.2  | 496.2  |
| 180°   | 494.2  | 494.2  | 494.2  | 494.2  |



TEST NUMBER: P832352

CATALOG NUMBER: S123RDIP-S775D1195U935-4F0-1E-UDD-G4

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 11.01            | 11.77 | 12.03 | 12.79 | 14.16 | 15.67          | 16.43 | 16.69 | 17.46 | 18.82 |
|                 | 3H   | 12.22            | 12.90 | 13.26 | 13.94 | 15.32 | 17.17          | 17.85 | 18.20 | 18.88 | 20.26 |
|                 | 4H   | 12.60            | 13.25 | 13.65 | 14.28 | 15.67 | 17.65          | 18.30 | 18.70 | 19.33 | 20.72 |
|                 | 6H   | 12.88            | 13.47 | 13.93 | 14.51 | 15.92 | 17.96          | 18.55 | 19.01 | 19.59 | 21.00 |
|                 | 8H   | 12.97            | 13.53 | 14.02 | 14.58 | 15.98 | 18.04          | 18.60 | 19.10 | 19.65 | 21.06 |
|                 | 12H  | 13.02            | 13.55 | 14.08 | 14.60 | 16.02 | 18.07          | 18.60 | 19.13 | 19.65 | 21.07 |
| 4H              | 2H   | 11.72            | 12.37 | 12.77 | 13.40 | 14.79 | 15.66          | 16.30 | 16.71 | 17.34 | 18.73 |
|                 | 3H   | 13.09            | 13.62 | 14.14 | 14.68 | 16.09 | 17.31          | 17.85 | 18.37 | 18.91 | 20.31 |
|                 | 4H   | 13.54            | 14.03 | 14.60 | 15.08 | 16.51 | 17.91          | 18.40 | 18.98 | 19.46 | 20.89 |
|                 | 6H   | 13.90            | 14.32 | 14.98 | 15.40 | 16.82 | 18.35          | 18.77 | 19.42 | 19.85 | 21.27 |
|                 | 8H   | 14.03            | 14.42 | 15.10 | 15.49 | 16.93 | 18.48          | 18.87 | 19.55 | 19.94 | 21.38 |
|                 | 12H  | 14.10            | 14.45 | 15.19 | 15.54 | 16.98 | 18.54          | 18.89 | 19.63 | 19.97 | 21.42 |
| 8H              | 4H   | 13.85            | 14.24 | 14.92 | 15.31 | 16.75 | 17.88          | 18.27 | 18.95 | 19.34 | 20.78 |
|                 | 6H   | 14.31            | 14.63 | 15.40 | 15.74 | 17.18 | 18.37          | 18.69 | 19.47 | 19.81 | 21.24 |
|                 | 8H   | 14.50            | 14.78 | 15.60 | 15.88 | 17.33 | 18.56          | 18.84 | 19.66 | 19.93 | 21.39 |
|                 | 12H  | 14.64            | 14.89 | 15.74 | 15.98 | 17.47 | 18.67          | 18.92 | 19.78 | 20.01 | 21.50 |
| 12H             | 4H   | 13.86            | 14.21 | 14.95 | 15.29 | 16.74 | 17.82          | 18.18 | 18.91 | 19.26 | 20.70 |
|                 | 6H   | 14.37            | 14.65 | 15.47 | 15.74 | 17.20 | 18.35          | 18.63 | 19.45 | 19.72 | 21.18 |
|                 | 8H   | 14.58            | 14.83 | 15.69 | 15.92 | 17.42 | 18.54          | 18.78 | 19.64 | 19.87 | 21.37 |