

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332323

Luminaire Tested: **S123RDIP-S775D1025U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332323  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S775D1025U835-4F0-1E-UDD-F4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6630.3 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: General Diffuse

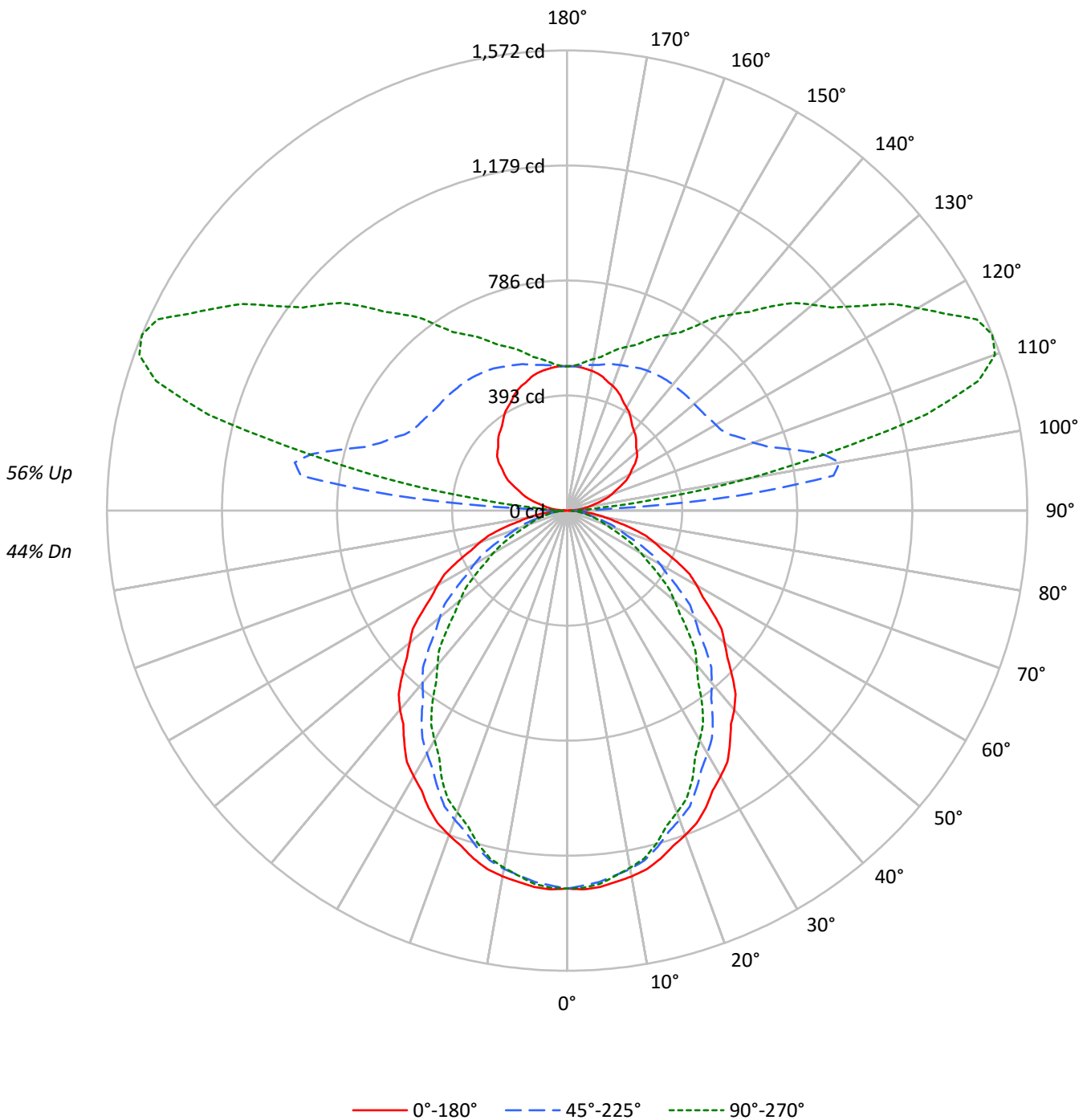
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |
| 1   | 97  | 93  | 89  | 85  | 88 | 85 | 82 | 79 | 71 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2   | 88  | 81  | 75  | 70  | 81 | 75 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 38 | 37 | 32 |
| 3   | 81  | 72  | 64  | 59  | 74 | 66 | 60 | 55 | 55 | 50 | 47 | 45 | 42 | 39 | 36 | 34 | 32 | 27 |
| 4   | 74  | 63  | 56  | 50  | 67 | 58 | 52 | 47 | 49 | 44 | 40 | 40 | 37 | 34 | 32 | 30 | 28 | 24 |
| 5   | 68  | 57  | 49  | 43  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 36 | 32 | 29 | 29 | 26 | 24 | 21 |
| 6   | 63  | 51  | 43  | 37  | 57 | 47 | 40 | 35 | 40 | 34 | 30 | 33 | 29 | 26 | 26 | 24 | 21 | 18 |
| 7   | 58  | 46  | 38  | 33  | 53 | 42 | 36 | 31 | 36 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 19 | 16 |
| 8   | 54  | 42  | 34  | 29  | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 27 | 23 | 20 | 22 | 19 | 17 | 15 |
| 9   | 50  | 38  | 31  | 26  | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 |
| 10  | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 17 | 19 | 16 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13897 | 13897 | 13897 |
| 5°  | 13950 | 13758 | 13837 |
| 10° | 13871 | 13585 | 13539 |
| 15° | 13722 | 13266 | 13127 |
| 20° | 13518 | 12869 | 12569 |
| 25° | 13307 | 12423 | 12025 |
| 30° | 13027 | 11908 | 11257 |
| 35° | 12741 | 11393 | 10553 |
| 40° | 12476 | 10784 | 9681  |
| 45° | 12129 | 10185 | 8894  |
| 50° | 11747 | 9503  | 8013  |
| 55° | 11357 | 8724  | 7191  |
| 60° | 11001 | 7890  | 6288  |
| 65° | 10534 | 6986  | 5387  |
| 70° | 9951  | 5866  | 4349  |
| 75° | 9100  | 4616  | 4092  |
| 80° | 8114  | 4091  | 3763  |
| 85° | 6854  | 3619  | 3359  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.2  | 1.8       |
| 10°-20°   | 337.3  | 5.1       |
| 20°-30°   | 485.7  | 7.3       |
| 30°-40°   | 547.1  | 8.3       |
| 40°-50°   | 523.4  | 7.9       |
| 50°-60°   | 428.6  | 6.5       |
| 60°-70°   | 289.2  | 4.4       |
| 70°-80°   | 145.5  | 2.2       |
| 80°-90°   | 42.3   | 0.6       |
| 90°-100°  | 274.4  | 4.1       |
| 100°-110° | 777.0  | 11.7      |
| 110°-120° | 764.4  | 11.5      |
| 120°-130° | 609.7  | 9.2       |
| 130°-140° | 480.7  | 7.3       |
| 140°-150° | 358.8  | 5.4       |
| 150°-160° | 250.1  | 3.8       |
| 160°-170° | 146.9  | 2.2       |
| 170°-180° | 47.8   | 0.7       |
| 0°-30°    | 944.3  | 14.2      |
| 0°-40°    | 1491.4 | 22.5      |
| 0°-60°    | 2443.4 | 36.9      |
| 0°-90°    | 2920.4 | 44.0      |
| 90°-120°  | 1815.8 | 27.4      |
| 90°-150°  | 3265.1 | 49.2      |
| 90°-180°  | 3710.0 | 56.0      |
| 0°-180°   | 6630.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1291 | 1291  | 1291 | 1291  | 1291 |      |
| 5°   | 1291 | 1285  | 1273 | 1282  | 1281 | 122  |
| 15°  | 1231 | 1219  | 1190 | 1185  | 1178 | 347  |
| 25°  | 1120 | 1093  | 1046 | 1025  | 1012 | 515  |
| 35°  | 970  | 930   | 867  | 823   | 803  | 607  |
| 45°  | 797  | 748   | 669  | 611   | 584  | 615  |
| 55°  | 605  | 552   | 465  | 406   | 383  | 542  |
| 65°  | 414  | 355   | 274  | 225   | 212  | 409  |
| 75°  | 219  | 168   | 111  | 101   | 98   | 233  |
| 85°  | 56   | 34    | 29   | 27    | 27   | 62   |
| 90°  | 2    | 12    | 25   | 28    | 29   | 5    |
| 95°  | 34   | 110   | 592  | 173   | 116  | 37   |
| 105° | 116  | 171   | 802  | 1403  | 1270 | 123  |
| 115° | 205  | 255   | 614  | 1346  | 1544 | 203  |
| 125° | 284  | 336   | 573  | 1038  | 1218 | 252  |
| 135° | 333  | 398   | 565  | 855   | 987  | 258  |
| 145° | 380  | 436   | 558  | 701   | 772  | 238  |
| 155° | 432  | 466   | 540  | 614   | 640  | 199  |
| 165° | 472  | 486   | 517  | 548   | 558  | 133  |
| 175° | 492  | 493   | 496  | 503   | 502  | 47   |
| 180° | 493  | 493   | 493  | 493   | 493  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 |
| 2.5°   | 1295.2 | 1294.5 | 1293.7 | 1293.0 | 1292.3 | 1290.8 | 1288.5 | 1286.3 | 1284.1 | 1281.8 | 1283.9 |
| 5°     | 1291.1 | 1289.9 | 1288.7 | 1287.6 | 1286.4 | 1284.4 | 1281.6 | 1278.8 | 1276.0 | 1273.3 | 1275.3 |
| 7.5°   | 1279.1 | 1277.9 | 1276.6 | 1275.3 | 1274.1 | 1271.6 | 1268.0 | 1264.4 | 1260.8 | 1257.1 | 1258.3 |
| 10°    | 1269.1 | 1267.4 | 1265.8 | 1264.2 | 1262.5 | 1259.6 | 1255.4 | 1251.3 | 1247.1 | 1242.9 | 1243.1 |
| 12.5°  | 1254.8 | 1253.0 | 1251.2 | 1249.4 | 1247.6 | 1244.1 | 1239.0 | 1233.9 | 1228.7 | 1223.6 | 1223.5 |
| 15°    | 1231.4 | 1228.8 | 1226.2 | 1223.7 | 1221.1 | 1216.6 | 1210.1 | 1203.6 | 1197.0 | 1190.5 | 1189.4 |
| 17.5°  | 1201.8 | 1198.9 | 1195.9 | 1192.9 | 1189.9 | 1184.3 | 1176.0 | 1167.7 | 1159.4 | 1151.2 | 1148.7 |
| 20°    | 1180.1 | 1176.3 | 1172.6 | 1168.9 | 1165.2 | 1158.9 | 1150.0 | 1141.2 | 1132.4 | 1123.5 | 1120.5 |
| 22.5°  | 1155.8 | 1151.5 | 1147.2 | 1142.9 | 1138.6 | 1131.8 | 1122.4 | 1113.0 | 1103.6 | 1094.2 | 1090.4 |
| 25°    | 1120.4 | 1114.6 | 1108.7 | 1102.9 | 1097.1 | 1088.8 | 1078.1 | 1067.4 | 1056.7 | 1046.0 | 1041.1 |
| 27.5°  | 1077.4 | 1071.0 | 1064.6 | 1058.2 | 1051.8 | 1042.6 | 1030.7 | 1018.8 | 1006.8 | 994.9  | 988.1  |
| 30°    | 1048.1 | 1041.1 | 1034.2 | 1027.2 | 1020.2 | 1010.2 | 997.2  | 984.1  | 971.1  | 958.1  | 950.2  |
| 32.5°  | 1018.8 | 1010.9 | 1003.0 | 995.1  | 987.2  | 976.3  | 962.5  | 948.8  | 935.0  | 921.2  | 912.6  |
| 35°    | 969.6  | 961.2  | 952.8  | 944.5  | 936.1  | 924.7  | 910.3  | 895.8  | 881.4  | 867.0  | 857.0  |
| 37.5°  | 919.8  | 910.4  | 901.1  | 891.8  | 882.5  | 870.2  | 854.8  | 839.4  | 824.0  | 808.6  | 797.2  |
| 40°    | 887.9  | 877.7  | 867.4  | 857.2  | 847.0  | 833.6  | 817.1  | 800.6  | 784.0  | 767.5  | 755.4  |
| 42.5°  | 851.9  | 841.7  | 831.4  | 821.2  | 811.0  | 797.3  | 780.2  | 763.1  | 746.1  | 729.0  | 715.8  |
| 45°    | 796.8  | 786.4  | 775.9  | 765.4  | 754.9  | 740.8  | 722.8  | 704.9  | 687.0  | 669.1  | 655.8  |
| 47.5°  | 741.8  | 730.3  | 718.8  | 707.3  | 695.8  | 681.1  | 663.2  | 645.2  | 627.3  | 609.4  | 595.0  |
| 50°    | 701.5  | 690.6  | 679.7  | 668.7  | 657.8  | 642.9  | 624.1  | 605.2  | 586.4  | 567.5  | 553.1  |
| 52.5°  | 665.5  | 653.7  | 641.8  | 629.9  | 618.1  | 602.8  | 584.1  | 565.5  | 546.8  | 528.1  | 513.2  |
| 55°    | 605.2  | 593.8  | 582.4  | 571.0  | 559.6  | 544.0  | 524.2  | 504.5  | 484.7  | 464.9  | 451.4  |
| 57.5°  | 549.5  | 537.1  | 524.7  | 512.2  | 499.8  | 483.7  | 463.8  | 443.9  | 424.0  | 404.2  | 391.4  |
| 60°    | 511.0  | 498.2  | 485.4  | 472.6  | 459.8  | 443.7  | 424.4  | 405.1  | 385.8  | 366.5  | 353.9  |
| 62.5°  | 472.4  | 459.6  | 446.8  | 434.0  | 421.3  | 405.2  | 385.9  | 366.6  | 347.3  | 327.9  | 316.1  |
| 65°    | 413.6  | 400.8  | 388.0  | 375.2  | 362.4  | 346.9  | 328.8  | 310.6  | 292.5  | 274.3  | 262.9  |
| 67.5°  | 354.8  | 341.8  | 328.9  | 315.9  | 303.0  | 287.8  | 270.4  | 253.0  | 235.6  | 218.2  | 209.7  |
| 70°    | 316.2  | 303.7  | 291.1  | 278.5  | 266.0  | 251.5  | 235.2  | 219.0  | 202.7  | 186.4  | 178.2  |
| 72.5°  | 277.7  | 265.3  | 252.9  | 240.5  | 228.2  | 214.6  | 199.8  | 185.0  | 170.2  | 155.4  | 148.7  |
| 75°    | 218.8  | 207.7  | 196.5  | 185.3  | 174.2  | 162.2  | 149.4  | 136.6  | 123.8  | 111.0  | 108.7  |
| 77.5°  | 165.2  | 155.1  | 145.0  | 134.9  | 124.8  | 115.7  | 107.4  | 99.2   | 91.0   | 82.7   | 81.5   |
| 80°    | 130.9  | 121.3  | 111.8  | 102.3  | 92.7   | 85.5   | 80.6   | 75.7   | 70.9   | 66.0   | 65.3   |
| 82.5°  | 98.2   | 90.0   | 81.7   | 73.5   | 65.3   | 60.0   | 57.7   | 55.4   | 53.2   | 50.9   | 50.2   |
| 85°    | 55.5   | 50.4   | 45.3   | 40.1   | 35.0   | 32.1   | 31.4   | 30.7   | 30.0   | 29.3   | 28.9   |
| 87.5°  | 20.5   | 18.9   | 17.2   | 15.8   | 14.1   | 13.5   | 14.1   | 14.7   | 15.3   | 15.9   | 15.5   |
| 90°    | 2.0    | 4.0    | 6.0    | 9.0    | 11.0   | 13.0   | 16.0   | 19.0   | 22.0   | 25.0   | 24.0   |
| 92.5°  | 12.4   | 18.4   | 26.8   | 34.5   | 42.9   | 57.7   | 83.8   | 126.8  | 168.9  | 153.5  | 115.8  |
| 95°    | 33.9   | 36.9   | 47.9   | 64.9   | 90.8   | 129.8  | 214.6  | 363.3  | 527.0  | 591.9  | 480.1  |
| 97.5°  | 57.9   | 58.9   | 67.5   | 82.2   | 107.8  | 149.9  | 231.0  | 398.7  | 671.6  | 917.3  | 981.4  |
| 100°   | 73.9   | 74.9   | 81.9   | 95.8   | 119.8  | 158.7  | 228.6  | 376.3  | 638.8  | 945.3  | 1141.9 |
| 102.5° | 90.6   | 92.4   | 98.6   | 111.8  | 133.4  | 169.1  | 231.8  | 357.1  | 590.9  | 893.4  | 1149.9 |
| 105°   | 115.8  | 118.8  | 124.8  | 136.8  | 155.7  | 186.7  | 240.6  | 343.4  | 532.0  | 802.5  | 1089.0 |
| 107.5° | 142.5  | 145.5  | 151.3  | 163.1  | 180.9  | 209.6  | 256.9  | 342.4  | 494.5  | 722.3  | 982.4  |
| 110°   | 161.7  | 164.7  | 169.7  | 180.7  | 197.6  | 225.6  | 270.5  | 346.4  | 480.1  | 676.8  | 915.3  |



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CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 179.3 | 182.3 | 187.3 | 198.2 | 215.2 | 242.4 | 284.1 | 354.4 | 472.1 | 646.4 | 857.0 |
| 115°   | 204.6 | 208.6 | 214.6 | 224.6 | 241.6 | 268.5 | 306.4 | 367.3 | 469.1 | 613.9 | 786.6 |
| 117.5° | 230.0 | 234.6 | 239.6 | 248.7 | 267.7 | 292.7 | 330.2 | 384.5 | 470.9 | 594.7 | 744.0 |
| 120°   | 247.5 | 250.5 | 255.5 | 265.5 | 284.5 | 309.4 | 345.4 | 397.3 | 474.1 | 585.9 | 721.7 |
| 122.5° | 262.7 | 265.7 | 270.7 | 281.5 | 299.7 | 326.2 | 361.3 | 409.3 | 479.7 | 580.3 | 703.3 |
| 125°   | 284.5 | 286.5 | 292.5 | 303.4 | 322.4 | 349.4 | 384.3 | 428.2 | 488.1 | 573.0 | 679.8 |
| 127.5° | 301.1 | 304.0 | 311.4 | 322.6 | 343.6 | 370.5 | 404.3 | 443.8 | 497.7 | 569.4 | 659.0 |
| 130°   | 311.4 | 314.4 | 323.4 | 335.4 | 356.3 | 383.3 | 416.2 | 454.2 | 504.1 | 567.0 | 647.8 |
| 132.5° | 319.4 | 323.2 | 333.0 | 347.4 | 368.3 | 394.5 | 426.6 | 463.8 | 508.9 | 566.2 | 637.4 |
| 135°   | 333.4 | 337.4 | 348.4 | 363.3 | 384.3 | 411.2 | 442.2 | 476.1 | 516.1 | 565.0 | 623.9 |
| 137.5° | 346.6 | 350.8 | 361.5 | 377.5 | 398.3 | 423.2 | 453.0 | 485.3 | 520.8 | 562.8 | 612.1 |
| 140°   | 355.4 | 360.3 | 370.3 | 386.3 | 406.3 | 431.2 | 460.2 | 490.1 | 524.0 | 562.0 | 604.9 |
| 142.5° | 364.9 | 369.1 | 379.9 | 394.3 | 414.2 | 437.6 | 465.8 | 494.9 | 526.4 | 560.4 | 598.5 |
| 145°   | 380.3 | 383.3 | 392.3 | 407.3 | 424.2 | 447.2 | 473.1 | 500.1 | 528.0 | 558.0 | 589.9 |
| 147.5° | 395.9 | 397.7 | 406.5 | 419.4 | 435.8 | 455.4 | 479.1 | 503.3 | 528.0 | 554.2 | 581.5 |
| 150°   | 406.3 | 407.3 | 415.2 | 428.2 | 442.2 | 460.2 | 483.1 | 504.1 | 528.0 | 551.0 | 575.9 |
| 152.5° | 416.6 | 416.8 | 424.8 | 436.2 | 448.6 | 465.8 | 485.5 | 505.7 | 525.6 | 547.0 | 569.6 |
| 155°   | 432.2 | 432.2 | 438.2 | 448.2 | 459.2 | 473.1 | 490.1 | 506.1 | 523.0 | 540.0 | 560.0 |
| 157.5° | 444.6 | 445.4 | 450.2 | 459.0 | 468.3 | 479.1 | 492.7 | 507.1 | 519.7 | 533.8 | 549.2 |
| 160°   | 454.2 | 454.2 | 458.2 | 466.1 | 473.1 | 483.1 | 495.1 | 507.1 | 518.1 | 529.0 | 542.0 |
| 162.5° | 461.4 | 461.4 | 464.6 | 470.9 | 477.1 | 485.5 | 495.9 | 506.3 | 514.9 | 524.2 | 534.8 |
| 165°   | 472.1 | 471.1 | 473.1 | 478.1 | 482.1 | 489.1 | 497.1 | 504.1 | 510.1 | 517.1 | 525.0 |
| 167.5° | 480.3 | 479.1 | 480.1 | 483.9 | 486.7 | 491.1 | 496.9 | 502.5 | 505.3 | 509.9 | 515.7 |
| 170°   | 485.1 | 483.1 | 484.1 | 487.1 | 489.1 | 491.1 | 496.1 | 500.1 | 502.1 | 505.1 | 510.1 |
| 172.5° | 488.3 | 487.1 | 487.3 | 489.5 | 490.7 | 491.9 | 496.1 | 499.3 | 499.7 | 501.1 | 504.5 |
| 175°   | 492.1 | 491.1 | 490.1 | 492.1 | 492.1 | 493.1 | 495.1 | 497.1 | 496.1 | 496.1 | 498.1 |
| 177.5° | 493.9 | 493.1 | 492.3 | 493.1 | 493.1 | 493.1 | 493.9 | 495.5 | 493.9 | 493.1 | 493.9 |
| 180°   | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 |



TEST NUMBER: P332323

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 |
| 2.5°   | 1285.9 | 1288.0 | 1290.0 | 1290.9 | 1290.5 | 1290.1 | 1289.7 | 1289.4 |
| 5°     | 1277.4 | 1279.5 | 1281.6 | 1282.4 | 1282.0 | 1281.5 | 1281.0 | 1280.6 |
| 7.5°   | 1259.5 | 1260.6 | 1261.8 | 1262.0 | 1261.2 | 1260.4 | 1259.6 | 1258.8 |
| 10°    | 1243.4 | 1243.6 | 1243.8 | 1243.4 | 1242.2 | 1241.0 | 1239.9 | 1238.7 |
| 12.5°  | 1223.3 | 1223.2 | 1223.1 | 1222.3 | 1221.0 | 1219.6 | 1218.3 | 1216.9 |
| 15°    | 1188.2 | 1187.0 | 1185.9 | 1184.5 | 1182.9 | 1181.2 | 1179.6 | 1178.0 |
| 17.5°  | 1146.2 | 1143.8 | 1141.3 | 1138.9 | 1136.4 | 1134.0 | 1131.6 | 1129.2 |
| 20°    | 1117.5 | 1114.4 | 1111.4 | 1108.5 | 1105.7 | 1102.9 | 1100.1 | 1097.3 |
| 22.5°  | 1086.7 | 1082.9 | 1079.1 | 1075.9 | 1073.3 | 1070.7 | 1068.1 | 1065.5 |
| 25°    | 1036.3 | 1031.4 | 1026.5 | 1022.8 | 1020.2 | 1017.6 | 1015.1 | 1012.5 |
| 27.5°  | 981.3  | 974.6  | 967.8  | 962.4  | 958.5  | 954.6  | 950.7  | 946.8  |
| 30°    | 942.3  | 934.3  | 926.4  | 920.6  | 916.9  | 913.2  | 909.4  | 905.7  |
| 32.5°  | 903.9  | 895.3  | 886.6  | 880.3  | 876.4  | 872.5  | 868.6  | 864.7  |
| 35°    | 847.0  | 837.0  | 827.0  | 819.9  | 815.7  | 811.5  | 807.3  | 803.1  |
| 37.5°  | 785.8  | 774.5  | 763.1  | 754.9  | 749.7  | 744.5  | 739.4  | 734.2  |
| 40°    | 743.3  | 731.2  | 719.1  | 710.4  | 705.0  | 699.7  | 694.3  | 689.0  |
| 42.5°  | 702.5  | 689.3  | 676.1  | 667.1  | 662.3  | 657.5  | 652.7  | 647.9  |
| 45°    | 642.6  | 629.3  | 616.0  | 606.6  | 601.0  | 595.4  | 589.9  | 584.3  |
| 47.5°  | 580.5  | 566.1  | 551.7  | 542.0  | 537.0  | 532.0  | 527.1  | 522.1  |
| 50°    | 538.7  | 524.2  | 509.8  | 499.9  | 494.6  | 489.2  | 483.9  | 478.5  |
| 52.5°  | 498.2  | 483.2  | 468.2  | 458.3  | 453.5  | 448.7  | 443.9  | 439.1  |
| 55°    | 437.9  | 424.4  | 410.9  | 401.8  | 397.2  | 392.5  | 387.9  | 383.2  |
| 57.5°  | 378.7  | 365.9  | 353.2  | 344.8  | 340.9  | 336.9  | 332.9  | 329.0  |
| 60°    | 341.3  | 328.8  | 316.2  | 308.0  | 304.0  | 300.0  | 296.1  | 292.1  |
| 62.5°  | 304.3  | 292.5  | 280.7  | 272.7  | 268.5  | 264.4  | 260.3  | 256.1  |
| 65°    | 251.5  | 240.1  | 228.7  | 221.7  | 219.2  | 216.6  | 214.1  | 211.5  |
| 67.5°  | 201.2  | 192.7  | 184.1  | 178.5  | 175.8  | 173.0  | 170.3  | 167.5  |
| 70°    | 170.1  | 161.9  | 153.8  | 148.5  | 145.9  | 143.3  | 140.8  | 138.2  |
| 72.5°  | 142.1  | 135.4  | 128.8  | 124.9  | 123.8  | 122.8  | 121.7  | 120.6  |
| 75°    | 106.3  | 104.0  | 101.7  | 100.3  | 99.8   | 99.4   | 98.9   | 98.4   |
| 77.5°  | 80.2   | 78.9   | 77.7   | 76.8   | 76.4   | 75.9   | 75.4   | 75.0   |
| 80°    | 64.6   | 63.9   | 63.2   | 62.6   | 62.1   | 61.7   | 61.2   | 60.7   |
| 82.5°  | 49.5   | 48.8   | 48.1   | 47.7   | 47.6   | 47.5   | 47.4   | 47.3   |
| 85°    | 28.4   | 27.9   | 27.5   | 27.2   | 27.2   | 27.2   | 27.2   | 27.2   |
| 87.5°  | 15.5   | 15.5   | 15.5   | 15.7   | 15.4   | 15.4   | 15.4   | 15.0   |
| 90°    | 25.0   | 26.0   | 27.0   | 28.9   | 27.9   | 28.9   | 29.9   | 28.9   |
| 92.5°  | 84.0   | 66.7   | 58.9   | 53.7   | 51.9   | 48.9   | 49.9   | 48.1   |
| 95°    | 359.3  | 243.6  | 190.7  | 154.7  | 135.8  | 126.8  | 119.8  | 115.8  |
| 97.5°  | 895.8  | 717.5  | 588.7  | 469.3  | 395.7  | 350.8  | 323.8  | 315.2  |
| 100°   | 1176.9 | 1096.0 | 979.2  | 837.5  | 736.7  | 663.8  | 624.9  | 625.9  |
| 102.5° | 1270.3 | 1267.7 | 1199.6 | 1109.8 | 1031.3 | 973.6  | 941.1  | 918.1  |
| 105°   | 1297.6 | 1397.5 | 1416.4 | 1390.5 | 1344.5 | 1306.6 | 1274.7 | 1269.7 |
| 107.5° | 1219.0 | 1381.1 | 1468.5 | 1504.1 | 1504.9 | 1492.1 | 1481.3 | 1472.1 |
| 110°   | 1143.9 | 1327.6 | 1453.3 | 1523.2 | 1551.2 | 1559.2 | 1557.2 | 1555.2 |





TEST NUMBER: P332323

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1069.6 | 1257.3 | 1398.2 | 1488.1 | 1539.2 | 1563.9 | 1571.5 | 1571.9 |
| 115°   | 971.2  | 1144.9 | 1291.6 | 1400.4 | 1475.3 | 1519.2 | 1539.2 | 1544.2 |
| 117.5° | 900.0  | 1049.9 | 1181.6 | 1292.0 | 1370.1 | 1420.4 | 1449.2 | 1455.9 |
| 120°   | 862.4  | 997.2  | 1117.0 | 1217.8 | 1296.6 | 1352.5 | 1376.5 | 1382.5 |
| 122.5° | 832.9  | 954.9  | 1065.9 | 1159.5 | 1229.6 | 1279.9 | 1306.2 | 1313.8 |
| 125°   | 793.6  | 902.4  | 998.2  | 1078.0 | 1141.9 | 1185.8 | 1210.8 | 1217.8 |
| 127.5° | 759.2  | 856.2  | 942.7  | 1015.3 | 1072.2 | 1109.8 | 1132.3 | 1138.7 |
| 130°   | 737.7  | 827.5  | 908.3  | 976.2  | 1029.1 | 1065.1 | 1086.0 | 1094.0 |
| 132.5° | 717.7  | 800.3  | 875.6  | 940.3  | 990.0  | 1025.9 | 1044.5 | 1050.1 |
| 135°   | 690.7  | 761.6  | 826.5  | 883.4  | 932.3  | 962.2  | 980.2  | 987.2  |
| 137.5° | 666.2  | 724.3  | 780.2  | 829.5  | 870.6  | 901.0  | 916.1  | 920.7  |
| 140°   | 651.8  | 702.7  | 750.6  | 793.6  | 831.5  | 859.4  | 875.4  | 874.4  |
| 142.5° | 638.2  | 682.0  | 723.5  | 760.8  | 793.2  | 817.9  | 832.3  | 831.3  |
| 145°   | 621.9  | 654.8  | 686.7  | 715.7  | 740.6  | 761.6  | 769.6  | 771.6  |
| 147.5° | 608.5  | 634.6  | 660.4  | 681.0  | 699.9  | 714.1  | 721.7  | 722.5  |
| 150°   | 598.9  | 621.9  | 642.8  | 661.8  | 676.8  | 687.7  | 693.7  | 693.7  |
| 152.5° | 590.1  | 609.9  | 628.5  | 644.2  | 656.0  | 666.2  | 669.8  | 669.8  |
| 155°   | 576.9  | 592.9  | 607.9  | 619.9  | 628.9  | 636.8  | 638.8  | 639.8  |
| 157.5° | 563.0  | 576.3  | 587.9  | 597.3  | 605.1  | 611.1  | 612.7  | 612.5  |
| 160°   | 555.0  | 566.0  | 575.9  | 582.9  | 589.9  | 595.9  | 595.9  | 594.9  |
| 162.5° | 545.4  | 554.8  | 564.0  | 570.2  | 574.8  | 579.9  | 579.9  | 578.9  |
| 165°   | 533.0  | 539.0  | 546.0  | 551.0  | 555.0  | 559.0  | 558.0  | 558.0  |
| 167.5° | 522.2  | 526.8  | 530.8  | 534.4  | 536.2  | 539.0  | 538.0  | 538.0  |
| 170°   | 515.1  | 518.1  | 522.0  | 524.0  | 525.0  | 527.0  | 526.0  | 526.0  |
| 172.5° | 508.7  | 510.9  | 514.1  | 515.3  | 515.5  | 517.5  | 515.7  | 514.9  |
| 175°   | 500.1  | 501.1  | 503.1  | 503.1  | 503.1  | 504.1  | 503.1  | 502.1  |
| 177.5° | 494.7  | 495.5  | 496.3  | 496.3  | 495.5  | 496.3  | 494.7  | 494.7  |
| 180°   | 493.1  | 493.1  | 493.1  | 493.1  | 493.1  | 493.1  | 493.1  | 493.1  |

(END OF REPORT)