

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: P332460-927

Luminaire Tested: **S123RDIW-S1000D1030U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332460-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1000D1030U927-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6272.2 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

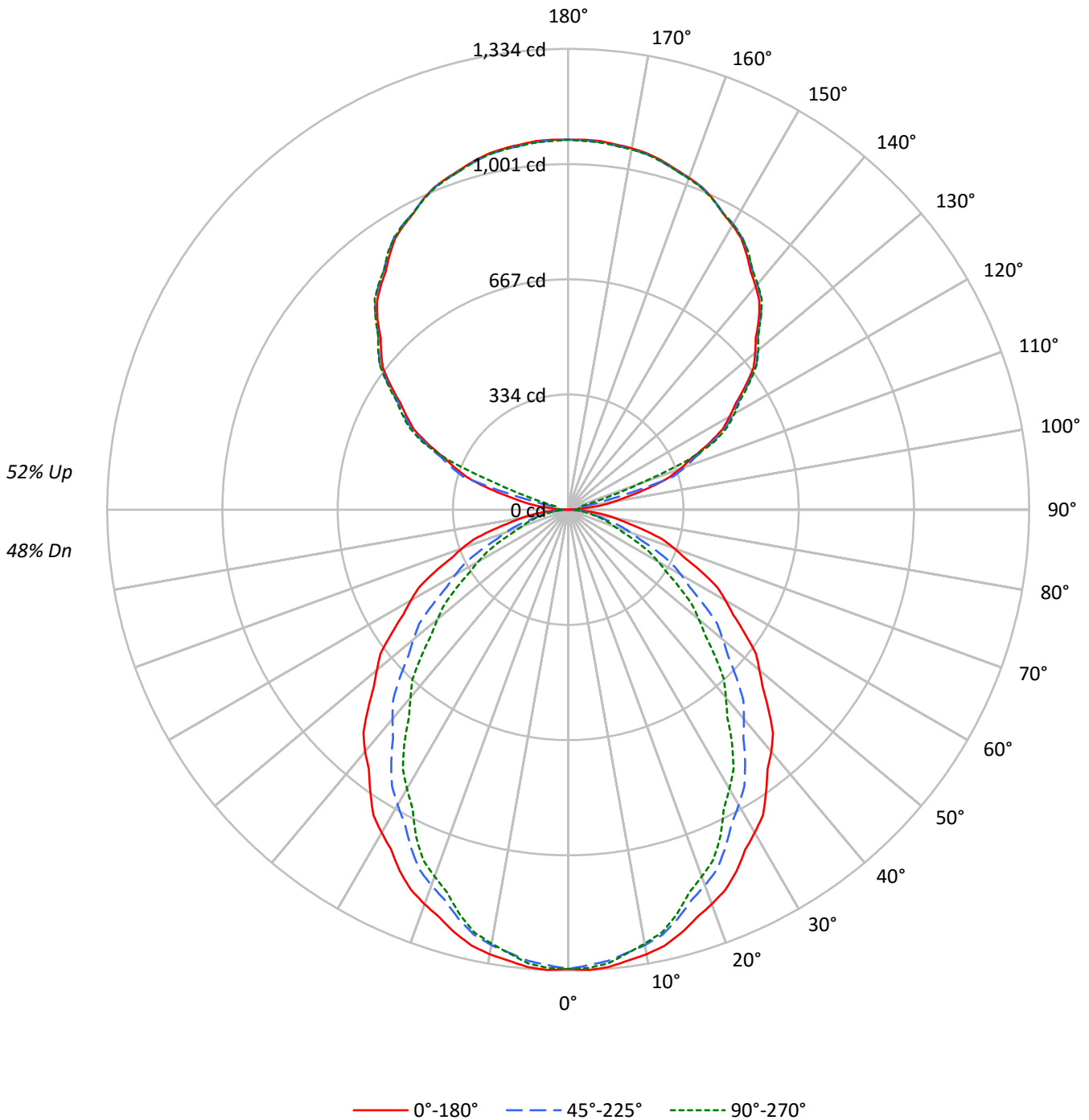
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 |
| 1   | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 60 | 57 | 53 | 50 | 48 | 43 | 41 | 40 |
| 3   | 81  | 72  | 65  | 59  | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 47 | 44 | 41 | 38 | 36 | 34 |
| 4   | 75  | 64  | 56  | 51  | 68 | 59 | 53 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 32 | 30 |
| 5   | 69  | 57  | 49  | 43  | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 38 | 34 | 31 | 31 | 28 | 26 |
| 6   | 63  | 51  | 43  | 38  | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 23 |
| 7   | 59  | 47  | 39  | 33  | 54 | 43 | 36 | 31 | 37 | 32 | 28 | 31 | 27 | 24 | 26 | 23 | 20 |
| 8   | 54  | 42  | 35  | 29  | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 29 | 25 | 21 | 24 | 21 | 18 |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 17 |
| 10  | 47  | 35  | 28  | 24  | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 24 | 20 | 18 | 21 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14310 | 14310 | 14310 |
| 5°  | 14364 | 14166 | 14249 |
| 10° | 14283 | 13988 | 13941 |
| 15° | 14130 | 13661 | 13517 |
| 20° | 13919 | 13252 | 12944 |
| 25° | 13702 | 12792 | 12383 |
| 30° | 13415 | 12263 | 11591 |
| 35° | 13119 | 11730 | 10867 |
| 40° | 12847 | 11105 | 9969  |
| 45° | 12490 | 10488 | 9159  |
| 50° | 12097 | 9786  | 8251  |
| 55° | 11695 | 8983  | 7405  |
| 60° | 11328 | 8125  | 6476  |
| 65° | 10847 | 7195  | 5547  |
| 70° | 10247 | 6039  | 4482  |
| 75° | 9374  | 4754  | 4213  |
| 80° | 8356  | 4209  | 3874  |
| 85° | 7052  | 3730  | 3458  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.8  | 2.0       |
| 10°-20°   | 347.3  | 5.5       |
| 20°-30°   | 500.2  | 8.0       |
| 30°-40°   | 563.4  | 9.0       |
| 40°-50°   | 539.0  | 8.6       |
| 50°-60°   | 441.4  | 7.0       |
| 60°-70°   | 297.8  | 4.7       |
| 70°-80°   | 149.8  | 2.4       |
| 80°-90°   | 42.6   | 0.7       |
| 90°-100°  | 38.9   | 0.6       |
| 100°-110° | 185.6  | 3.0       |
| 110°-120° | 445.8  | 7.1       |
| 120°-130° | 567.6  | 9.0       |
| 130°-140° | 606.5  | 9.7       |
| 140°-150° | 567.1  | 9.0       |
| 150°-160° | 457.5  | 7.3       |
| 160°-170° | 295.2  | 4.7       |
| 170°-180° | 101.8  | 1.6       |
| 0°-30°    | 972.3  | 15.5      |
| 0°-40°    | 1535.7 | 24.5      |
| 0°-60°    | 2516.0 | 40.1      |
| 0°-90°    | 3006.3 | 47.9      |
| 90°-120°  | 670.3  | 10.7      |
| 90°-150°  | 2411.5 | 38.4      |
| 90°-180°  | 3266.0 | 52.1      |
| 0°-180°   | 6272.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1329 | 1329  | 1329 | 1329  | 1329 |      |
| 5°   | 1329 | 1324  | 1311 | 1320  | 1319 | 126  |
| 15°  | 1268 | 1255  | 1226 | 1220  | 1213 | 357  |
| 25°  | 1154 | 1125  | 1077 | 1055  | 1043 | 530  |
| 35°  | 998  | 958   | 893  | 848   | 827  | 625  |
| 45°  | 820  | 770   | 689  | 629   | 602  | 633  |
| 55°  | 623  | 568   | 479  | 418   | 395  | 559  |
| 65°  | 426  | 365   | 282  | 232   | 218  | 421  |
| 75°  | 225  | 173   | 114  | 104   | 101  | 240  |
| 85°  | 57   | 34    | 30   | 28    | 28   | 64   |
| 90°  | 1    | 9     | 19   | 22    | 24   | 5    |
| 95°  | 49   | 18    | 25   | 30    | 30   | 60   |
| 105° | 237  | 241   | 174  | 41    | 35   | 251  |
| 115° | 445  | 450   | 457  | 464   | 468  | 439  |
| 125° | 627  | 633   | 636  | 638   | 640  | 560  |
| 135° | 780  | 785   | 788  | 791   | 788  | 601  |
| 145° | 901  | 906   | 908  | 909   | 909  | 564  |
| 155° | 992  | 991   | 991  | 995   | 991  | 457  |
| 165° | 1046 | 1044  | 1043 | 1049  | 1044 | 295  |
| 175° | 1071 | 1067  | 1068 | 1073  | 1067 | 102  |
| 180° | 1071 | 1071  | 1071 | 1071  | 1071 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 |
| 2.5°   | 1333.7 | 1332.9 | 1332.2 | 1331.4 | 1330.6 | 1329.1 | 1326.8 | 1324.5 | 1322.2 | 1319.9 | 1322.0 |
| 5°     | 1329.4 | 1328.2 | 1327.0 | 1325.8 | 1324.6 | 1322.5 | 1319.7 | 1316.8 | 1314.0 | 1311.1 | 1313.2 |
| 7.5°   | 1317.1 | 1315.8 | 1314.5 | 1313.2 | 1311.9 | 1309.4 | 1305.7 | 1302.0 | 1298.2 | 1294.5 | 1295.7 |
| 10°    | 1306.8 | 1305.1 | 1303.4 | 1301.7 | 1300.1 | 1297.0 | 1292.8 | 1288.4 | 1284.1 | 1279.8 | 1280.1 |
| 12.5°  | 1292.1 | 1290.2 | 1288.4 | 1286.5 | 1284.6 | 1281.0 | 1275.8 | 1270.5 | 1265.3 | 1260.0 | 1259.8 |
| 15°    | 1268.0 | 1265.4 | 1262.7 | 1260.0 | 1257.4 | 1252.8 | 1246.0 | 1239.3 | 1232.6 | 1225.9 | 1224.7 |
| 17.5°  | 1237.5 | 1234.5 | 1231.4 | 1228.4 | 1225.3 | 1219.5 | 1210.9 | 1202.5 | 1193.9 | 1185.3 | 1182.8 |
| 20°    | 1215.1 | 1211.3 | 1207.4 | 1203.6 | 1199.8 | 1193.3 | 1184.2 | 1175.1 | 1166.0 | 1156.9 | 1153.8 |
| 22.5°  | 1190.1 | 1185.7 | 1181.3 | 1176.9 | 1172.5 | 1165.5 | 1155.7 | 1146.1 | 1136.4 | 1126.7 | 1122.8 |
| 25°    | 1153.7 | 1147.7 | 1141.7 | 1135.7 | 1129.7 | 1121.2 | 1110.2 | 1099.2 | 1088.1 | 1077.1 | 1072.1 |
| 27.5°  | 1109.5 | 1102.9 | 1096.2 | 1089.6 | 1083.0 | 1073.6 | 1061.3 | 1049.0 | 1036.7 | 1024.5 | 1017.5 |
| 30°    | 1079.3 | 1072.1 | 1064.9 | 1057.7 | 1050.5 | 1040.2 | 1026.8 | 1013.4 | 1000.0 | 986.6  | 978.4  |
| 32.5°  | 1049.1 | 1040.9 | 1032.8 | 1024.6 | 1016.5 | 1005.4 | 991.2  | 977.0  | 962.7  | 948.6  | 939.7  |
| 35°    | 998.4  | 989.8  | 981.1  | 972.6  | 963.9  | 952.1  | 937.3  | 922.4  | 907.6  | 892.7  | 882.4  |
| 37.5°  | 947.1  | 937.5  | 927.9  | 918.3  | 908.7  | 896.0  | 880.2  | 864.3  | 848.4  | 832.6  | 820.9  |
| 40°    | 914.3  | 903.8  | 893.2  | 882.6  | 872.1  | 858.3  | 841.4  | 824.3  | 807.3  | 790.3  | 777.8  |
| 42.5°  | 877.2  | 866.6  | 856.1  | 845.6  | 835.0  | 821.0  | 803.4  | 785.8  | 768.3  | 750.7  | 737.0  |
| 45°    | 820.5  | 809.7  | 798.9  | 788.1  | 777.4  | 762.8  | 744.3  | 725.9  | 707.4  | 689.0  | 675.3  |
| 47.5°  | 763.8  | 751.9  | 740.1  | 728.3  | 716.4  | 701.3  | 682.9  | 664.4  | 645.9  | 627.5  | 612.7  |
| 50°    | 722.4  | 711.1  | 699.9  | 688.6  | 677.3  | 662.0  | 642.6  | 623.2  | 603.8  | 584.4  | 569.5  |
| 52.5°  | 685.3  | 673.1  | 660.8  | 648.6  | 636.4  | 620.7  | 601.5  | 582.3  | 563.1  | 543.8  | 528.4  |
| 55°    | 623.2  | 611.5  | 599.7  | 588.0  | 576.2  | 560.2  | 539.8  | 519.4  | 499.1  | 478.7  | 464.9  |
| 57.5°  | 565.9  | 553.0  | 540.3  | 527.4  | 514.7  | 498.0  | 477.5  | 457.1  | 436.7  | 416.2  | 403.1  |
| 60°    | 526.2  | 513.0  | 499.8  | 486.6  | 473.4  | 456.9  | 437.0  | 417.2  | 397.3  | 377.4  | 364.4  |
| 62.5°  | 486.5  | 473.3  | 460.1  | 446.9  | 433.8  | 417.2  | 397.4  | 377.5  | 357.6  | 337.7  | 325.5  |
| 65°    | 425.9  | 412.7  | 399.5  | 386.3  | 373.2  | 357.3  | 338.6  | 319.9  | 301.2  | 282.5  | 270.8  |
| 67.5°  | 365.3  | 352.0  | 338.7  | 325.3  | 312.0  | 296.4  | 278.5  | 260.5  | 242.6  | 224.7  | 215.9  |
| 70°    | 325.6  | 312.7  | 299.8  | 286.8  | 273.9  | 259.0  | 242.2  | 225.5  | 208.7  | 191.9  | 183.5  |
| 72.5°  | 285.9  | 273.2  | 260.5  | 247.7  | 235.0  | 220.9  | 205.7  | 190.5  | 175.2  | 160.0  | 153.1  |
| 75°    | 225.4  | 213.8  | 202.3  | 190.8  | 179.4  | 167.0  | 153.8  | 140.6  | 127.5  | 114.3  | 111.9  |
| 77.5°  | 170.2  | 159.7  | 149.3  | 138.9  | 128.6  | 119.1  | 110.6  | 102.1  | 93.6   | 85.2   | 83.9   |
| 80°    | 134.8  | 124.9  | 115.1  | 105.3  | 95.5   | 88.1   | 83.0   | 78.0   | 73.0   | 67.9   | 67.2   |
| 82.5°  | 101.2  | 92.7   | 84.2   | 75.7   | 67.2   | 61.8   | 59.4   | 57.1   | 54.7   | 52.4   | 51.7   |
| 85°    | 57.1   | 51.9   | 46.6   | 41.4   | 36.0   | 33.0   | 32.3   | 31.6   | 30.9   | 30.2   | 29.7   |
| 87.5°  | 20.8   | 19.1   | 17.3   | 15.6   | 13.9   | 13.2   | 13.6   | 14.1   | 14.6   | 15.1   | 15.0   |
| 90°    | 0.8    | 2.5    | 4.4    | 6.1    | 7.8    | 9.9    | 12.2   | 14.5   | 16.8   | 19.1   | 19.8   |
| 92.5°  | 14.8   | 14.3   | 13.8   | 13.3   | 12.8   | 13.5   | 15.2   | 16.9   | 18.6   | 20.4   | 21.5   |
| 95°    | 48.6   | 41.3   | 34.1   | 26.8   | 19.6   | 16.9   | 18.9   | 20.8   | 22.7   | 24.6   | 25.9   |
| 97.5°  | 97.5   | 94.3   | 91.0   | 87.8   | 84.5   | 76.5   | 63.8   | 51.1   | 38.3   | 25.6   | 27.0   |
| 100°   | 134.4  | 138.0  | 141.6  | 145.0  | 148.6  | 136.6  | 109.0  | 81.4   | 53.9   | 26.2   | 27.6   |
| 102.5° | 176.5  | 179.0  | 181.6  | 184.1  | 186.6  | 172.9  | 142.8  | 112.6  | 82.5   | 52.4   | 48.0   |
| 105°   | 237.1  | 239.1  | 241.0  | 243.0  | 244.9  | 237.9  | 222.0  | 206.0  | 190.2  | 174.3  | 143.0  |
| 107.5° | 301.1  | 302.6  | 304.2  | 305.8  | 307.3  | 309.3  | 311.9  | 314.3  | 316.9  | 319.4  | 296.4  |
| 110°   | 343.7  | 345.2  | 346.6  | 348.0  | 349.4  | 351.1  | 353.0  | 355.0  | 356.9  | 358.9  | 353.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 384.4  | 385.7  | 387.0  | 388.3  | 389.6  | 391.2  | 393.1  | 395.1  | 397.0  | 398.9  | 399.0  |
| 115°   | 444.8  | 445.8  | 446.9  | 448.0  | 449.0  | 450.4  | 451.9  | 453.5  | 455.1  | 456.7  | 458.5  |
| 117.5° | 503.2  | 504.5  | 505.8  | 507.1  | 508.4  | 509.5  | 510.3  | 511.1  | 511.9  | 512.7  | 514.1  |
| 120°   | 539.5  | 541.1  | 542.6  | 544.2  | 545.8  | 546.9  | 547.4  | 548.0  | 548.5  | 549.0  | 550.4  |
| 122.5° | 576.4  | 577.7  | 579.0  | 580.3  | 581.6  | 582.6  | 583.3  | 583.9  | 584.6  | 585.3  | 586.3  |
| 125°   | 627.0  | 628.4  | 629.8  | 631.2  | 632.6  | 633.7  | 634.4  | 635.1  | 635.8  | 636.5  | 636.9  |
| 127.5° | 676.0  | 677.4  | 678.8  | 680.2  | 681.7  | 682.8  | 683.7  | 684.5  | 685.3  | 686.2  | 686.7  |
| 130°   | 706.5  | 708.0  | 709.4  | 710.8  | 712.3  | 713.3  | 714.0  | 714.7  | 715.4  | 716.1  | 716.8  |
| 132.5° | 735.9  | 737.3  | 738.6  | 740.1  | 741.5  | 742.5  | 743.1  | 743.6  | 744.2  | 744.7  | 745.4  |
| 135°   | 780.5  | 781.6  | 782.7  | 783.7  | 784.8  | 785.7  | 786.4  | 787.1  | 787.8  | 788.5  | 789.0  |
| 137.5° | 818.7  | 820.1  | 821.4  | 822.8  | 824.1  | 825.0  | 825.4  | 825.8  | 826.2  | 826.6  | 827.4  |
| 140°   | 844.2  | 845.3  | 846.4  | 847.4  | 848.4  | 849.2  | 849.8  | 850.3  | 850.8  | 851.4  | 852.1  |
| 142.5° | 867.8  | 868.8  | 869.9  | 870.9  | 872.0  | 872.8  | 873.3  | 873.9  | 874.4  | 874.9  | 875.5  |
| 145°   | 900.7  | 901.9  | 903.2  | 904.4  | 905.6  | 906.4  | 906.8  | 907.1  | 907.5  | 907.8  | 908.2  |
| 147.5° | 931.8  | 932.6  | 933.3  | 934.1  | 935.0  | 935.6  | 935.9  | 936.3  | 936.6  | 937.0  | 937.3  |
| 150°   | 950.9  | 951.3  | 951.9  | 952.4  | 952.9  | 953.4  | 953.7  | 954.1  | 954.4  | 954.8  | 955.1  |
| 152.5° | 968.0  | 968.3  | 968.5  | 968.8  | 969.0  | 969.2  | 969.5  | 969.6  | 969.9  | 970.1  | 970.7  |
| 155°   | 992.2  | 991.8  | 991.5  | 991.2  | 990.8  | 990.7  | 990.9  | 991.0  | 991.3  | 991.4  | 992.3  |
| 157.5° | 1011.0 | 1011.0 | 1010.9 | 1010.9 | 1010.8 | 1010.7 | 1010.6 | 1010.3 | 1010.2 | 1010.0 | 1011.1 |
| 160°   | 1022.5 | 1022.2 | 1022.1 | 1021.9 | 1021.8 | 1021.5 | 1021.4 | 1021.2 | 1021.0 | 1020.9 | 1021.9 |
| 162.5° | 1033.2 | 1032.8 | 1032.4 | 1031.9 | 1031.4 | 1031.1 | 1030.9 | 1030.8 | 1030.5 | 1030.4 | 1031.6 |
| 165°   | 1046.3 | 1045.8 | 1045.3 | 1044.7 | 1044.2 | 1043.9 | 1043.6 | 1043.5 | 1043.3 | 1043.1 | 1044.6 |
| 167.5° | 1056.5 | 1055.8 | 1055.1 | 1054.4 | 1053.7 | 1053.3 | 1053.3 | 1053.3 | 1053.3 | 1053.3 | 1054.7 |
| 170°   | 1062.2 | 1061.5 | 1060.8 | 1060.1 | 1059.4 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1060.4 |
| 172.5° | 1066.0 | 1065.2 | 1064.4 | 1063.5 | 1062.6 | 1062.3 | 1062.4 | 1062.6 | 1062.7 | 1062.9 | 1064.3 |
| 175°   | 1071.0 | 1070.1 | 1069.2 | 1068.3 | 1067.5 | 1067.1 | 1067.2 | 1067.5 | 1067.6 | 1067.8 | 1069.1 |
| 177.5° | 1072.2 | 1071.5 | 1070.9 | 1070.2 | 1069.4 | 1069.1 | 1069.3 | 1069.4 | 1069.5 | 1069.7 | 1070.9 |
| 180°   | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 |



TEST NUMBER: P332460-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 | 1329.4 |
| 2.5°   | 1324.1 | 1326.3 | 1328.3 | 1329.2 | 1328.8 | 1328.5 | 1328.1 | 1327.7 |
| 5°     | 1315.4 | 1317.6 | 1319.7 | 1320.6 | 1320.1 | 1319.6 | 1319.1 | 1318.7 |
| 7.5°   | 1296.9 | 1298.1 | 1299.3 | 1299.5 | 1298.6 | 1297.8 | 1297.0 | 1296.2 |
| 10°    | 1280.3 | 1280.6 | 1280.8 | 1280.3 | 1279.1 | 1277.9 | 1276.7 | 1275.5 |
| 12.5°  | 1259.6 | 1259.6 | 1259.4 | 1258.6 | 1257.3 | 1255.8 | 1254.5 | 1253.1 |
| 15°    | 1223.5 | 1222.3 | 1221.1 | 1219.6 | 1218.0 | 1216.3 | 1214.7 | 1213.0 |
| 17.5°  | 1180.3 | 1177.7 | 1175.2 | 1172.7 | 1170.2 | 1167.7 | 1165.2 | 1162.7 |
| 20°    | 1150.6 | 1147.6 | 1144.5 | 1141.5 | 1138.6 | 1135.7 | 1132.8 | 1130.0 |
| 22.5°  | 1119.0 | 1115.1 | 1111.2 | 1107.9 | 1105.3 | 1102.6 | 1099.9 | 1097.2 |
| 25°    | 1067.1 | 1062.0 | 1057.0 | 1053.1 | 1050.5 | 1047.9 | 1045.3 | 1042.6 |
| 27.5°  | 1010.5 | 1003.5 | 996.5  | 991.0  | 987.0  | 982.9  | 978.9  | 974.9  |
| 30°    | 970.3  | 962.1  | 953.9  | 948.0  | 944.1  | 940.3  | 936.4  | 932.6  |
| 32.5°  | 930.7  | 921.9  | 912.9  | 906.5  | 902.5  | 898.4  | 894.4  | 890.3  |
| 35°    | 872.1  | 861.8  | 851.5  | 844.2  | 840.0  | 835.6  | 831.3  | 827.0  |
| 37.5°  | 809.2  | 797.5  | 785.8  | 777.3  | 772.0  | 766.7  | 761.4  | 756.1  |
| 40°    | 765.4  | 753.0  | 740.5  | 731.5  | 726.0  | 720.5  | 714.9  | 709.5  |
| 42.5°  | 723.4  | 709.8  | 696.2  | 686.9  | 682.0  | 677.1  | 672.1  | 667.2  |
| 45°    | 661.6  | 648.0  | 634.3  | 624.6  | 618.9  | 613.1  | 607.4  | 601.7  |
| 47.5°  | 597.8  | 583.0  | 568.1  | 558.1  | 552.9  | 547.9  | 542.7  | 537.6  |
| 50°    | 554.7  | 539.8  | 525.0  | 514.8  | 509.3  | 503.7  | 498.3  | 492.7  |
| 52.5°  | 513.0  | 497.6  | 482.1  | 471.9  | 467.0  | 462.1  | 457.2  | 452.2  |
| 55°    | 450.9  | 437.0  | 423.1  | 413.8  | 409.0  | 404.2  | 399.4  | 394.6  |
| 57.5°  | 389.9  | 376.8  | 363.7  | 355.1  | 351.0  | 346.9  | 342.9  | 338.7  |
| 60°    | 351.5  | 338.6  | 325.6  | 317.1  | 313.1  | 309.0  | 304.9  | 300.8  |
| 62.5°  | 313.3  | 301.2  | 289.0  | 280.7  | 276.6  | 272.3  | 268.0  | 263.7  |
| 65°    | 259.0  | 247.2  | 235.5  | 228.3  | 225.7  | 223.1  | 220.5  | 217.8  |
| 67.5°  | 207.2  | 198.4  | 189.6  | 183.8  | 181.0  | 178.2  | 175.3  | 172.5  |
| 70°    | 175.2  | 166.8  | 158.4  | 152.9  | 150.2  | 147.6  | 145.0  | 142.4  |
| 72.5°  | 146.3  | 139.4  | 132.6  | 128.7  | 127.5  | 126.4  | 125.3  | 124.2  |
| 75°    | 109.5  | 107.1  | 104.7  | 103.3  | 102.8  | 102.3  | 101.8  | 101.3  |
| 77.5°  | 82.6   | 81.3   | 80.0   | 79.1   | 78.7   | 78.2   | 77.7   | 77.2   |
| 80°    | 66.5   | 65.8   | 65.0   | 64.5   | 64.0   | 63.5   | 63.0   | 62.5   |
| 82.5°  | 50.9   | 50.2   | 49.5   | 49.1   | 49.0   | 49.0   | 48.8   | 48.7   |
| 85°    | 29.2   | 28.8   | 28.3   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   |
| 87.5°  | 14.9   | 14.9   | 14.8   | 14.7   | 14.7   | 14.5   | 14.4   | 14.3   |
| 90°    | 20.5   | 21.2   | 21.9   | 22.4   | 22.8   | 23.1   | 23.5   | 23.8   |
| 92.5°  | 22.7   | 23.8   | 24.9   | 25.6   | 25.7   | 26.0   | 26.2   | 26.4   |
| 95°    | 27.2   | 28.4   | 29.6   | 30.3   | 30.3   | 30.3   | 30.3   | 30.3   |
| 97.5°  | 28.4   | 29.9   | 31.3   | 32.1   | 32.2   | 32.4   | 32.6   | 32.8   |
| 100°   | 29.1   | 30.5   | 31.9   | 32.7   | 32.9   | 33.0   | 33.3   | 33.4   |
| 102.5° | 43.6   | 39.2   | 34.8   | 32.8   | 33.1   | 33.4   | 33.7   | 34.1   |
| 105°   | 111.7  | 80.3   | 49.0   | 33.6   | 34.0   | 34.3   | 34.6   | 35.0   |
| 107.5° | 273.5  | 250.6  | 227.6  | 204.3  | 180.7  | 157.2  | 133.6  | 110.0  |
| 110°   | 347.2  | 341.4  | 335.5  | 320.0  | 294.7  | 269.3  | 244.1  | 218.8  |





TEST NUMBER: P332460-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 399.2  | 399.3  | 399.3  | 396.7  | 391.4  | 386.1  | 380.7  | 375.4  |
| 115°   | 460.3  | 462.0  | 463.8  | 465.0  | 465.7  | 466.4  | 467.1  | 467.9  |
| 117.5° | 515.6  | 517.0  | 518.4  | 519.2  | 519.3  | 519.4  | 519.6  | 519.8  |
| 120°   | 551.8  | 553.3  | 554.7  | 555.4  | 555.4  | 555.4  | 555.4  | 555.4  |
| 122.5° | 587.2  | 588.3  | 589.2  | 589.9  | 589.9  | 590.1  | 590.3  | 590.4  |
| 125°   | 637.2  | 637.6  | 637.9  | 638.3  | 638.7  | 639.0  | 639.4  | 639.7  |
| 127.5° | 687.3  | 687.9  | 688.5  | 688.6  | 688.2  | 687.9  | 687.5  | 687.1  |
| 130°   | 717.6  | 718.2  | 718.9  | 719.1  | 718.7  | 718.4  | 718.0  | 717.7  |
| 132.5° | 746.2  | 746.9  | 747.6  | 747.7  | 747.2  | 746.7  | 746.2  | 745.7  |
| 135°   | 789.6  | 790.1  | 790.6  | 790.6  | 790.1  | 789.6  | 789.0  | 788.5  |
| 137.5° | 828.2  | 829.1  | 830.0  | 830.2  | 829.8  | 829.5  | 829.1  | 828.8  |
| 140°   | 852.8  | 853.5  | 854.2  | 854.4  | 854.1  | 853.7  | 853.3  | 852.9  |
| 142.5° | 876.1  | 876.6  | 877.2  | 877.2  | 876.7  | 876.2  | 875.8  | 875.2  |
| 145°   | 908.6  | 908.9  | 909.3  | 909.4  | 909.4  | 909.4  | 909.4  | 909.4  |
| 147.5° | 937.7  | 938.0  | 938.4  | 938.2  | 937.4  | 936.5  | 935.7  | 934.9  |
| 150°   | 955.5  | 955.8  | 956.2  | 956.2  | 955.6  | 955.1  | 954.6  | 954.0  |
| 152.5° | 971.4  | 972.0  | 972.6  | 972.6  | 971.7  | 970.9  | 970.1  | 969.3  |
| 155°   | 993.2  | 994.0  | 995.0  | 994.8  | 993.8  | 992.8  | 991.7  | 990.6  |
| 157.5° | 1012.2 | 1013.2 | 1014.2 | 1014.1 | 1012.7 | 1011.4 | 1010.0 | 1008.6 |
| 160°   | 1022.9 | 1024.1 | 1025.1 | 1025.0 | 1023.7 | 1022.5 | 1021.3 | 1020.0 |
| 162.5° | 1032.8 | 1034.0 | 1035.2 | 1035.2 | 1034.2 | 1033.1 | 1032.0 | 1030.9 |
| 165°   | 1045.9 | 1047.3 | 1048.8 | 1048.8 | 1047.7 | 1046.4 | 1045.1 | 1043.9 |
| 167.5° | 1056.1 | 1057.6 | 1059.0 | 1059.0 | 1057.6 | 1056.1 | 1054.7 | 1053.3 |
| 170°   | 1061.8 | 1063.3 | 1064.7 | 1064.7 | 1063.3 | 1061.8 | 1060.4 | 1059.1 |
| 172.5° | 1065.7 | 1067.1 | 1068.5 | 1068.4 | 1066.9 | 1065.3 | 1063.7 | 1062.2 |
| 175°   | 1070.2 | 1071.5 | 1072.8 | 1072.7 | 1071.3 | 1069.8 | 1068.4 | 1067.0 |
| 177.5° | 1072.0 | 1073.1 | 1074.2 | 1074.1 | 1072.7 | 1071.3 | 1069.8 | 1068.4 |
| 180°   | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 |

(END OF REPORT)