

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: P332190-930

Luminaire Tested: **S123DIW-S1000D755U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332190-930  
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: S123DIW-S1000D755U930-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 755 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5822.9 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: General Diffuse

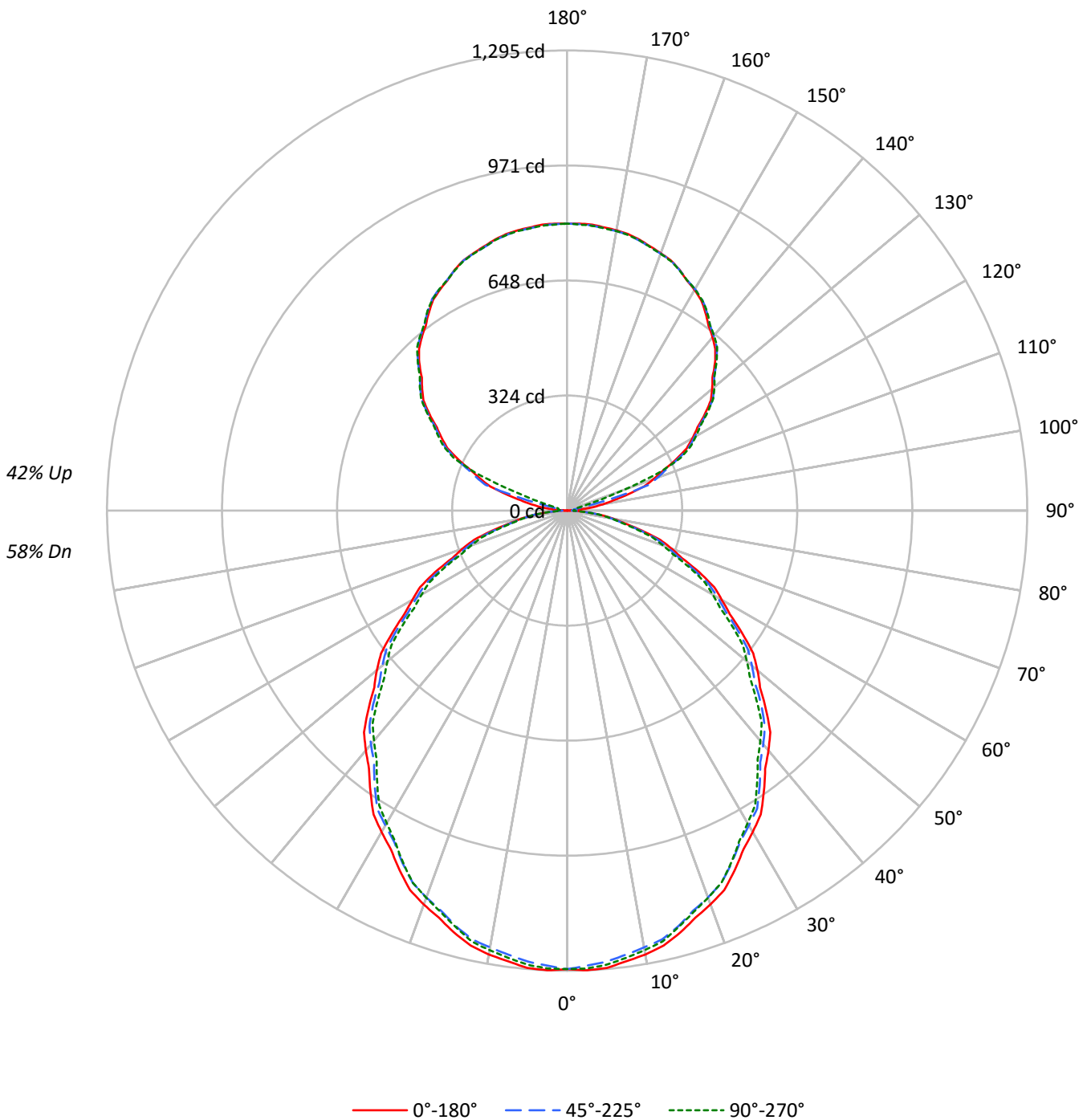
Input Watts (W): 53.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |    | 20 |    |    |    |    |    |    |    |    | 20 |    |    |    |    |   |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |    | 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 | 50 | 30 | 10 | 0 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 | 58 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 99  | 95  | 91  | 87  | 92  | 89  | 85  | 82  | 77 | 74 | 72 | 66 | 64 | 62 | 56 | 54 | 53 | 48 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 91  | 83  | 77  | 71  | 84  | 77  | 72  | 67  | 67 | 63 | 59 | 58 | 55 | 52 | 49 | 47 | 45 | 41 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 83  | 73  | 65  | 59  | 77  | 68  | 62  | 56  | 59 | 54 | 50 | 51 | 47 | 44 | 43 | 41 | 38 | 34 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 76  | 65  | 56  | 50  | 70  | 60  | 53  | 48  | 53 | 47 | 43 | 45 | 41 | 38 | 39 | 36 | 33 | 29 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 69  | 58  | 49  | 43  | 64  | 54  | 47  | 41  | 47 | 41 | 37 | 41 | 36 | 33 | 35 | 31 | 29 | 26 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 64  | 52  | 43  | 37  | 59  | 48  | 41  | 36  | 43 | 37 | 32 | 37 | 32 | 29 | 32 | 28 | 25 | 22 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 31  | 39 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 20 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 55  | 42  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 18 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 20 | 25 | 21 | 18 | 16 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 48  | 36  | 28  | 23  | 45  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 16 | 15 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13891 | 13891 | 13891 |
| 5°  | 13956 | 13765 | 13861 |
| 10° | 13864 | 13645 | 13729 |
| 15° | 13701 | 13490 | 13515 |
| 20° | 13512 | 13270 | 13283 |
| 25° | 13258 | 13007 | 12981 |
| 30° | 12978 | 12716 | 12619 |
| 35° | 12686 | 12408 | 12248 |
| 40° | 12381 | 12067 | 11880 |
| 45° | 12044 | 11756 | 11469 |
| 50° | 11707 | 11372 | 11055 |
| 55° | 11265 | 10975 | 10640 |
| 60° | 10820 | 10512 | 10176 |
| 65° | 10427 | 10004 | 9694  |
| 70° | 9847  | 9429  | 9010  |
| 75° | 9000  | 8675  | 8305  |
| 80° | 8114  | 7773  | 7705  |
| 85° | 7126  | 6854  | 6570  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.6  | 2.1       |
| 10°-20°   | 343.3  | 5.9       |
| 20°-30°   | 507.0  | 8.7       |
| 30°-40°   | 592.3  | 10.2      |
| 40°-50°   | 595.5  | 10.2      |
| 50°-60°   | 523.1  | 9.0       |
| 60°-70°   | 389.7  | 6.7       |
| 70°-80°   | 222.0  | 3.8       |
| 80°-90°   | 66.0   | 1.1       |
| 90°-100°  | 29.4   | 0.5       |
| 100°-110° | 139.9  | 2.4       |
| 110°-120° | 336.1  | 5.8       |
| 120°-130° | 428.0  | 7.4       |
| 130°-140° | 457.3  | 7.9       |
| 140°-150° | 427.6  | 7.3       |
| 150°-160° | 344.9  | 5.9       |
| 160°-170° | 222.6  | 3.8       |
| 170°-180° | 76.7   | 1.3       |
| 0°-30°    | 971.9  | 16.7      |
| 0°-40°    | 1564.1 | 26.9      |
| 0°-60°    | 2682.6 | 46.1      |
| 0°-90°    | 3360.3 | 57.7      |
| 90°-120°  | 505.4  | 8.7       |
| 90°-150°  | 1818.3 | 31.2      |
| 90°-180°  | 2463.0 | 42.3      |
| 0°-180°   | 5822.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1290 | 1290  | 1290 | 1290  | 1290 |      |
| 5°   | 1292 | 1286  | 1274 | 1284  | 1283 | 122  |
| 15°  | 1230 | 1224  | 1211 | 1219  | 1213 | 346  |
| 25°  | 1116 | 1109  | 1095 | 1096  | 1093 | 514  |
| 35°  | 965  | 958   | 944  | 938   | 932  | 604  |
| 45°  | 791  | 786   | 772  | 759   | 753  | 611  |
| 55°  | 600  | 598   | 585  | 573   | 567  | 538  |
| 65°  | 409  | 404   | 393  | 384   | 381  | 404  |
| 75°  | 216  | 212   | 209  | 203   | 200  | 231  |
| 85°  | 58   | 56    | 56   | 53    | 53   | 63   |
| 90°  | 1    | 7     | 14   | 17    | 18   | 5    |
| 95°  | 37   | 14    | 19   | 23    | 23   | 45   |
| 105° | 179  | 182   | 131  | 31    | 26   | 190  |
| 115° | 335  | 339   | 344  | 350   | 353  | 331  |
| 125° | 473  | 477   | 480  | 481   | 482  | 422  |
| 135° | 589  | 592   | 594  | 596   | 594  | 453  |
| 145° | 679  | 683   | 684  | 686   | 686  | 425  |
| 155° | 748  | 747   | 748  | 750   | 747  | 345  |
| 165° | 789  | 787   | 786  | 791   | 787  | 223  |
| 175° | 808  | 805   | 805  | 809   | 804  | 77   |
| 180° | 808  | 808   | 808  | 808   | 808  |      |



TEST NUMBER: P332190-930

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 |
| 2.5°   | 1294.9 | 1294.2 | 1293.4 | 1292.6 | 1291.8 | 1290.3 | 1288.2 | 1286.0 | 1283.9 | 1281.7 | 1283.6 |
| 5°     | 1291.6 | 1290.4 | 1289.2 | 1287.9 | 1286.7 | 1284.7 | 1282.1 | 1279.3 | 1276.6 | 1273.9 | 1276.4 |
| 7.5°   | 1279.0 | 1277.7 | 1276.5 | 1275.3 | 1274.1 | 1272.0 | 1269.3 | 1266.4 | 1263.6 | 1260.8 | 1263.0 |
| 10°    | 1268.4 | 1267.1 | 1265.8 | 1264.6 | 1263.4 | 1261.2 | 1258.0 | 1254.7 | 1251.6 | 1248.4 | 1250.6 |
| 12.5°  | 1254.1 | 1253.1 | 1252.1 | 1251.0 | 1250.0 | 1248.0 | 1245.0 | 1241.9 | 1238.9 | 1235.9 | 1237.5 |
| 15°    | 1229.5 | 1228.5 | 1227.5 | 1226.5 | 1225.6 | 1223.4 | 1220.3 | 1217.1 | 1213.8 | 1210.6 | 1212.6 |
| 17.5°  | 1200.9 | 1199.5 | 1198.3 | 1197.0 | 1195.7 | 1193.5 | 1190.3 | 1187.1 | 1183.9 | 1180.6 | 1182.0 |
| 20°    | 1179.6 | 1178.1 | 1176.6 | 1175.1 | 1173.6 | 1171.3 | 1168.1 | 1164.9 | 1161.7 | 1158.5 | 1159.4 |
| 22.5°  | 1155.6 | 1154.1 | 1152.7 | 1151.1 | 1149.7 | 1147.4 | 1144.1 | 1140.9 | 1137.8 | 1134.5 | 1135.3 |
| 25°    | 1116.3 | 1114.8 | 1113.4 | 1111.9 | 1110.4 | 1108.1 | 1104.8 | 1101.6 | 1098.5 | 1095.2 | 1095.4 |
| 27.5°  | 1074.4 | 1072.9 | 1071.5 | 1070.1 | 1068.6 | 1066.2 | 1062.7 | 1059.3 | 1055.8 | 1052.4 | 1052.6 |
| 30°    | 1044.2 | 1042.9 | 1041.7 | 1040.5 | 1039.3 | 1036.9 | 1033.5 | 1030.0 | 1026.5 | 1023.1 | 1023.1 |
| 32.5°  | 1014.0 | 1012.4 | 1010.7 | 1009.1 | 1007.5 | 1005.3 | 1002.7 | 1000.0 | 997.4  | 994.7  | 993.3  |
| 35°    | 965.4  | 963.9  | 962.5  | 961.0  | 959.4  | 957.2  | 953.9  | 950.7  | 947.5  | 944.3  | 942.8  |
| 37.5°  | 915.7  | 913.8  | 911.9  | 910.0  | 908.2  | 905.6  | 902.4  | 899.1  | 895.9  | 892.6  | 890.8  |
| 40°    | 881.1  | 879.5  | 878.1  | 876.6  | 875.1  | 872.7  | 869.2  | 865.8  | 862.3  | 858.8  | 856.9  |
| 42.5°  | 846.4  | 844.7  | 843.1  | 841.4  | 839.8  | 837.1  | 833.7  | 830.3  | 826.8  | 823.4  | 821.4  |
| 45°    | 791.2  | 790.2  | 789.2  | 788.2  | 787.3  | 785.1  | 782.0  | 778.7  | 775.5  | 772.3  | 769.4  |
| 47.5°  | 736.4  | 734.9  | 733.5  | 732.1  | 730.7  | 728.4  | 725.5  | 722.4  | 719.4  | 716.4  | 713.5  |
| 50°    | 699.1  | 697.8  | 696.6  | 695.4  | 694.1  | 691.9  | 688.7  | 685.5  | 682.3  | 679.1  | 676.4  |
| 52.5°  | 660.0  | 659.2  | 658.4  | 657.5  | 656.6  | 654.5  | 651.2  | 647.8  | 644.3  | 640.9  | 638.6  |
| 55°    | 600.3  | 600.1  | 599.8  | 599.6  | 599.3  | 597.6  | 594.4  | 591.2  | 588.0  | 584.8  | 582.0  |
| 57.5°  | 543.5  | 542.7  | 541.8  | 541.0  | 540.1  | 538.4  | 535.9  | 533.3  | 530.8  | 528.2  | 525.8  |
| 60°    | 502.6  | 502.4  | 502.1  | 501.9  | 501.7  | 500.1  | 497.1  | 494.2  | 491.2  | 488.3  | 486.0  |
| 62.5°  | 466.3  | 465.6  | 465.0  | 464.3  | 463.7  | 461.9  | 458.9  | 456.0  | 453.1  | 450.0  | 447.8  |
| 65°    | 409.4  | 408.2  | 407.0  | 405.8  | 404.6  | 402.7  | 400.2  | 397.8  | 395.3  | 392.8  | 390.9  |
| 67.5°  | 349.4  | 348.2  | 347.2  | 346.1  | 345.0  | 343.5  | 341.6  | 339.7  | 337.9  | 336.0  | 334.3  |
| 70°    | 312.9  | 311.4  | 310.0  | 308.5  | 307.0  | 305.5  | 304.0  | 302.6  | 301.1  | 299.6  | 297.9  |
| 72.5°  | 274.8  | 273.7  | 272.6  | 271.5  | 270.4  | 269.0  | 267.3  | 265.7  | 264.0  | 262.3  | 260.8  |
| 75°    | 216.4  | 215.4  | 214.4  | 213.4  | 212.5  | 211.6  | 210.8  | 210.1  | 209.4  | 208.6  | 207.4  |
| 77.5°  | 164.7  | 164.1  | 163.5  | 163.1  | 162.5  | 161.8  | 160.9  | 160.0  | 159.1  | 158.2  | 157.4  |
| 80°    | 130.9  | 130.2  | 129.5  | 128.7  | 128.0  | 127.3  | 126.9  | 126.4  | 125.9  | 125.4  | 125.1  |
| 82.5°  | 98.1   | 97.9   | 97.8   | 97.7   | 97.5   | 97.3   | 97.3   | 97.2   | 97.1   | 97.0   | 96.5   |
| 85°    | 57.7   | 57.2   | 56.7   | 56.3   | 55.8   | 55.5   | 55.5   | 55.5   | 55.5   | 55.5   | 55.0   |
| 87.5°  | 23.2   | 22.9   | 22.6   | 22.3   | 21.9   | 21.9   | 21.9   | 22.1   | 22.3   | 22.4   | 22.3   |
| 90°    | 0.6    | 2.0    | 3.3    | 4.6    | 6.0    | 7.5    | 9.2    | 10.9   | 12.6   | 14.4   | 14.9   |
| 92.5°  | 11.2   | 10.8   | 10.4   | 10.0   | 9.7    | 10.1   | 11.4   | 12.7   | 14.0   | 15.3   | 16.2   |
| 95°    | 36.6   | 31.1   | 25.7   | 20.2   | 14.8   | 12.7   | 14.2   | 15.7   | 17.1   | 18.6   | 19.6   |
| 97.5°  | 73.5   | 71.1   | 68.6   | 66.2   | 63.8   | 57.7   | 48.1   | 38.5   | 28.9   | 19.3   | 20.4   |
| 100°   | 101.4  | 104.0  | 106.7  | 109.4  | 112.0  | 103.0  | 82.2   | 61.4   | 40.6   | 19.8   | 20.9   |
| 102.5° | 133.1  | 135.0  | 136.9  | 138.8  | 140.7  | 130.4  | 107.6  | 84.9   | 62.2   | 39.5   | 36.2   |
| 105°   | 178.8  | 180.3  | 181.7  | 183.2  | 184.7  | 179.4  | 167.4  | 155.4  | 143.4  | 131.4  | 107.8  |
| 107.5° | 227.0  | 228.2  | 229.3  | 230.6  | 231.7  | 233.3  | 235.1  | 237.0  | 239.0  | 240.8  | 223.5  |
| 110°   | 259.2  | 260.2  | 261.3  | 262.4  | 263.4  | 264.7  | 266.2  | 267.7  | 269.1  | 270.6  | 266.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 289.9 | 290.8 | 291.8 | 292.8 | 293.8 | 295.0 | 296.4 | 297.9 | 299.4 | 300.8 | 300.9 |
| 115°   | 335.3 | 336.1 | 337.0 | 337.8 | 338.6 | 339.6 | 340.8 | 341.9 | 343.2 | 344.4 | 345.7 |
| 117.5° | 379.4 | 380.4 | 381.4 | 382.4 | 383.4 | 384.2 | 384.7 | 385.4 | 386.0 | 386.6 | 387.7 |
| 120°   | 406.8 | 408.0 | 409.2 | 410.3 | 411.6 | 412.4 | 412.8 | 413.2 | 413.6 | 413.9 | 415.1 |
| 122.5° | 434.6 | 435.6 | 436.6 | 437.6 | 438.5 | 439.3 | 439.8 | 440.3 | 440.8 | 441.3 | 442.1 |
| 125°   | 472.8 | 473.9 | 474.9 | 476.0 | 477.0 | 477.8 | 478.3 | 478.9 | 479.4 | 480.0 | 480.2 |
| 127.5° | 509.7 | 510.8 | 511.8 | 512.9 | 514.0 | 514.9 | 515.5 | 516.1 | 516.7 | 517.4 | 517.8 |
| 130°   | 532.7 | 533.9 | 534.9 | 536.0 | 537.0 | 537.9 | 538.3 | 538.9 | 539.4 | 540.0 | 540.5 |
| 132.5° | 554.8 | 555.9 | 556.9 | 558.0 | 559.1 | 559.9 | 560.3 | 560.7 | 561.1 | 561.6 | 562.1 |
| 135°   | 588.6 | 589.4 | 590.1 | 590.9 | 591.7 | 592.4 | 593.0 | 593.5 | 594.0 | 594.5 | 594.9 |
| 137.5° | 617.3 | 618.3 | 619.4 | 620.4 | 621.4 | 622.1 | 622.3 | 622.6 | 623.0 | 623.2 | 623.9 |
| 140°   | 636.5 | 637.3 | 638.1 | 639.0 | 639.8 | 640.3 | 640.7 | 641.2 | 641.6 | 642.0 | 642.5 |
| 142.5° | 654.3 | 655.1 | 655.9 | 656.7 | 657.5 | 658.1 | 658.5 | 658.9 | 659.3 | 659.7 | 660.1 |
| 145°   | 679.1 | 680.0 | 681.0 | 681.9 | 682.9 | 683.5 | 683.7 | 684.0 | 684.3 | 684.5 | 684.8 |
| 147.5° | 702.5 | 703.1 | 703.8 | 704.3 | 705.0 | 705.4 | 705.7 | 706.0 | 706.2 | 706.5 | 706.8 |
| 150°   | 717.0 | 717.3 | 717.7 | 718.1 | 718.5 | 718.8 | 719.2 | 719.4 | 719.7 | 719.9 | 720.2 |
| 152.5° | 729.9 | 730.1 | 730.3 | 730.4 | 730.7 | 730.8 | 731.0 | 731.2 | 731.3 | 731.5 | 731.9 |
| 155°   | 748.1 | 747.9 | 747.6 | 747.3 | 747.1 | 747.0 | 747.1 | 747.3 | 747.4 | 747.5 | 748.2 |
| 157.5° | 762.3 | 762.3 | 762.2 | 762.2 | 762.2 | 762.1 | 762.0 | 761.8 | 761.7 | 761.6 | 762.4 |
| 160°   | 770.9 | 770.8 | 770.7 | 770.5 | 770.4 | 770.3 | 770.1 | 770.0 | 769.9 | 769.7 | 770.5 |
| 162.5° | 779.1 | 778.8 | 778.4 | 778.0 | 777.7 | 777.5 | 777.3 | 777.2 | 777.1 | 776.9 | 777.9 |
| 165°   | 789.0 | 788.6 | 788.1 | 787.7 | 787.3 | 787.1 | 786.9 | 786.8 | 786.7 | 786.5 | 787.6 |
| 167.5° | 796.6 | 796.1 | 795.6 | 795.0 | 794.5 | 794.2 | 794.2 | 794.2 | 794.2 | 794.2 | 795.2 |
| 170°   | 801.0 | 800.4 | 799.9 | 799.3 | 798.8 | 798.5 | 798.5 | 798.5 | 798.5 | 798.5 | 799.6 |
| 172.5° | 803.8 | 803.2 | 802.5 | 801.9 | 801.3 | 801.0 | 801.1 | 801.2 | 801.3 | 801.4 | 802.5 |
| 175°   | 807.6 | 806.8 | 806.2 | 805.5 | 804.9 | 804.6 | 804.7 | 804.9 | 805.0 | 805.1 | 806.1 |
| 177.5° | 808.5 | 808.0 | 807.4 | 806.9 | 806.3 | 806.2 | 806.2 | 806.3 | 806.5 | 806.6 | 807.4 |
| 180°   | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 |



TEST NUMBER: P332190-930

CATALOG NUMBER: S123DIW-S1000D755U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 | 1290.5 |
| 2.5°   | 1285.6 | 1287.6 | 1289.6 | 1290.5 | 1290.2 | 1290.0 | 1289.8 | 1289.6 |
| 5°     | 1278.8 | 1281.2 | 1283.8 | 1284.7 | 1284.3 | 1283.8 | 1283.3 | 1282.8 |
| 7.5°   | 1265.3 | 1267.5 | 1269.7 | 1270.6 | 1270.3 | 1270.1 | 1269.7 | 1269.4 |
| 10°    | 1252.8 | 1255.0 | 1257.3 | 1258.1 | 1257.6 | 1257.1 | 1256.6 | 1256.1 |
| 12.5°  | 1239.2 | 1240.8 | 1242.4 | 1243.1 | 1242.8 | 1242.5 | 1242.2 | 1241.9 |
| 15°    | 1214.6 | 1216.5 | 1218.5 | 1218.8 | 1217.3 | 1215.8 | 1214.3 | 1212.8 |
| 17.5°  | 1183.4 | 1184.8 | 1186.2 | 1186.6 | 1186.1 | 1185.5 | 1185.0 | 1184.5 |
| 20°    | 1160.4 | 1161.5 | 1162.5 | 1162.5 | 1161.8 | 1161.1 | 1160.3 | 1159.6 |
| 22.5°  | 1136.1 | 1136.9 | 1137.7 | 1137.6 | 1136.7 | 1135.7 | 1134.8 | 1133.8 |
| 25°    | 1095.7 | 1096.0 | 1096.3 | 1096.0 | 1095.2 | 1094.5 | 1093.7 | 1093.0 |
| 27.5°  | 1052.8 | 1053.0 | 1053.2 | 1052.8 | 1051.9 | 1050.9 | 1050.0 | 1049.0 |
| 30°    | 1023.1 | 1023.1 | 1023.1 | 1022.2 | 1020.5 | 1018.8 | 1017.1 | 1015.3 |
| 32.5°  | 991.9  | 990.6  | 989.2  | 988.0  | 987.1  | 986.1  | 985.2  | 984.2  |
| 35°    | 941.3  | 939.9  | 938.4  | 937.0  | 935.8  | 934.6  | 933.4  | 932.1  |
| 37.5°  | 889.1  | 887.3  | 885.5  | 884.2  | 883.5  | 882.6  | 881.8  | 881.1  |
| 40°    | 854.9  | 853.0  | 851.0  | 849.5  | 848.5  | 847.5  | 846.5  | 845.5  |
| 42.5°  | 819.4  | 817.4  | 815.5  | 814.0  | 813.0  | 812.0  | 811.1  | 810.1  |
| 45°    | 766.4  | 763.4  | 760.5  | 758.4  | 757.2  | 755.9  | 754.7  | 753.4  |
| 47.5°  | 710.5  | 707.7  | 704.7  | 702.8  | 701.6  | 700.6  | 699.5  | 698.4  |
| 50°    | 673.7  | 671.0  | 668.2  | 666.2  | 664.7  | 663.2  | 661.7  | 660.2  |
| 52.5°  | 636.3  | 634.0  | 631.7  | 629.7  | 628.3  | 626.8  | 625.3  | 623.9  |
| 55°    | 579.4  | 576.7  | 574.0  | 571.9  | 570.7  | 569.5  | 568.3  | 567.0  |
| 57.5°  | 523.3  | 521.0  | 518.5  | 516.6  | 515.2  | 513.7  | 512.3  | 510.9  |
| 60°    | 483.8  | 481.6  | 479.4  | 477.7  | 476.4  | 475.2  | 473.9  | 472.7  |
| 62.5°  | 445.6  | 443.4  | 441.2  | 439.7  | 438.8  | 438.0  | 437.2  | 436.3  |
| 65°    | 388.9  | 386.9  | 384.9  | 383.6  | 382.9  | 382.1  | 381.3  | 380.6  |
| 67.5°  | 332.6  | 330.8  | 329.1  | 327.8  | 326.7  | 325.6  | 324.6  | 323.6  |
| 70°    | 296.1  | 294.4  | 292.7  | 291.2  | 290.0  | 288.8  | 287.6  | 286.3  |
| 72.5°  | 259.3  | 257.7  | 256.2  | 255.1  | 254.5  | 253.8  | 253.2  | 252.6  |
| 75°    | 206.2  | 204.9  | 203.7  | 202.7  | 201.9  | 201.2  | 200.5  | 199.7  |
| 77.5°  | 156.5  | 155.7  | 154.9  | 154.5  | 154.5  | 154.5  | 154.5  | 154.5  |
| 80°    | 124.9  | 124.7  | 124.4  | 124.3  | 124.3  | 124.3  | 124.3  | 124.3  |
| 82.5°  | 96.1   | 95.6   | 95.2   | 94.9   | 94.7   | 94.5   | 94.3   | 94.1   |
| 85°    | 54.5   | 54.0   | 53.5   | 53.2   | 53.2   | 53.2   | 53.2   | 53.2   |
| 87.5°  | 22.3   | 22.2   | 22.0   | 22.0   | 22.1   | 22.1   | 22.2   | 22.3   |
| 90°    | 15.5   | 16.0   | 16.6   | 17.0   | 17.2   | 17.4   | 17.7   | 18.0   |
| 92.5°  | 17.0   | 17.9   | 18.8   | 19.2   | 19.4   | 19.6   | 19.7   | 19.9   |
| 95°    | 20.5   | 21.4   | 22.3   | 22.8   | 22.8   | 22.8   | 22.8   | 22.8   |
| 97.5°  | 21.4   | 22.5   | 23.6   | 24.2   | 24.3   | 24.5   | 24.6   | 24.7   |
| 100°   | 21.9   | 23.0   | 24.1   | 24.7   | 24.8   | 24.9   | 25.0   | 25.2   |
| 102.5° | 32.9   | 29.6   | 26.3   | 24.7   | 24.9   | 25.2   | 25.4   | 25.7   |
| 105°   | 84.2   | 60.6   | 37.0   | 25.4   | 25.6   | 25.8   | 26.2   | 26.4   |
| 107.5° | 206.2  | 188.9  | 171.6  | 154.1  | 136.2  | 118.5  | 100.7  | 82.9   |
| 110°   | 261.8  | 257.4  | 253.0  | 241.2  | 222.2  | 203.1  | 184.0  | 165.0  |





TEST NUMBER: P332190-930

CATALOG NUMBER: S123DIW-S1000D755U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 301.0 | 301.1 | 301.2 | 299.1 | 295.1 | 291.1 | 287.1 | 283.1 |
| 115°   | 347.1 | 348.4 | 349.7 | 350.7 | 351.1 | 351.7 | 352.2 | 352.8 |
| 117.5° | 388.7 | 389.8 | 390.9 | 391.4 | 391.6 | 391.7 | 391.8 | 391.9 |
| 120°   | 416.1 | 417.2 | 418.2 | 418.7 | 418.7 | 418.7 | 418.7 | 418.7 |
| 122.5° | 442.8 | 443.5 | 444.3 | 444.7 | 444.8 | 444.9 | 445.1 | 445.2 |
| 125°   | 480.5 | 480.8 | 481.0 | 481.3 | 481.6 | 481.8 | 482.1 | 482.3 |
| 127.5° | 518.3 | 518.7 | 519.1 | 519.2 | 518.9 | 518.6 | 518.4 | 518.1 |
| 130°   | 541.0 | 541.5 | 542.1 | 542.3 | 541.9 | 541.7 | 541.4 | 541.1 |
| 132.5° | 562.6 | 563.1 | 563.7 | 563.8 | 563.4 | 563.0 | 562.6 | 562.2 |
| 135°   | 595.3 | 595.7 | 596.1 | 596.1 | 595.7 | 595.3 | 594.9 | 594.5 |
| 137.5° | 624.5 | 625.2 | 625.8 | 626.0 | 625.7 | 625.4 | 625.2 | 624.9 |
| 140°   | 643.0 | 643.5 | 644.1 | 644.2 | 643.9 | 643.7 | 643.4 | 643.1 |
| 142.5° | 660.6 | 661.0 | 661.4 | 661.5 | 661.0 | 660.7 | 660.3 | 659.9 |
| 145°   | 685.1 | 685.3 | 685.6 | 685.7 | 685.7 | 685.7 | 685.7 | 685.7 |
| 147.5° | 707.0 | 707.3 | 707.6 | 707.4 | 706.8 | 706.1 | 705.6 | 704.9 |
| 150°   | 720.5 | 720.7 | 721.0 | 721.0 | 720.6 | 720.2 | 719.7 | 719.3 |
| 152.5° | 732.4 | 732.9 | 733.4 | 733.3 | 732.7 | 732.1 | 731.5 | 730.8 |
| 155°   | 748.9 | 749.5 | 750.2 | 750.2 | 749.3 | 748.5 | 747.7 | 746.9 |
| 157.5° | 763.2 | 763.9 | 764.8 | 764.7 | 763.6 | 762.5 | 761.6 | 760.5 |
| 160°   | 771.4 | 772.2 | 772.9 | 772.9 | 771.9 | 771.0 | 770.1 | 769.2 |
| 162.5° | 778.8 | 779.7 | 780.6 | 780.6 | 779.8 | 778.9 | 778.1 | 777.3 |
| 165°   | 788.6 | 789.7 | 790.8 | 790.8 | 789.9 | 789.0 | 788.1 | 787.1 |
| 167.5° | 796.3 | 797.4 | 798.5 | 798.5 | 797.4 | 796.3 | 795.2 | 794.2 |
| 170°   | 800.6 | 801.8 | 802.8 | 802.8 | 801.8 | 800.6 | 799.6 | 798.5 |
| 172.5° | 803.6 | 804.6 | 805.7 | 805.6 | 804.5 | 803.3 | 802.1 | 801.0 |
| 175°   | 807.0 | 808.0 | 808.9 | 808.8 | 807.7 | 806.7 | 805.6 | 804.5 |
| 177.5° | 808.3 | 809.1 | 810.0 | 809.8 | 808.8 | 807.7 | 806.7 | 805.6 |
| 180°   | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 | 807.6 |

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