

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: P332184-940

Luminaire Tested: **S123DIW-S1000D460U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332184-940  
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-S1000D460U940-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 460 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5318.7 lumens  
Efficiency: N/A  
Efficacy: 115.1 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: Semi-Direct

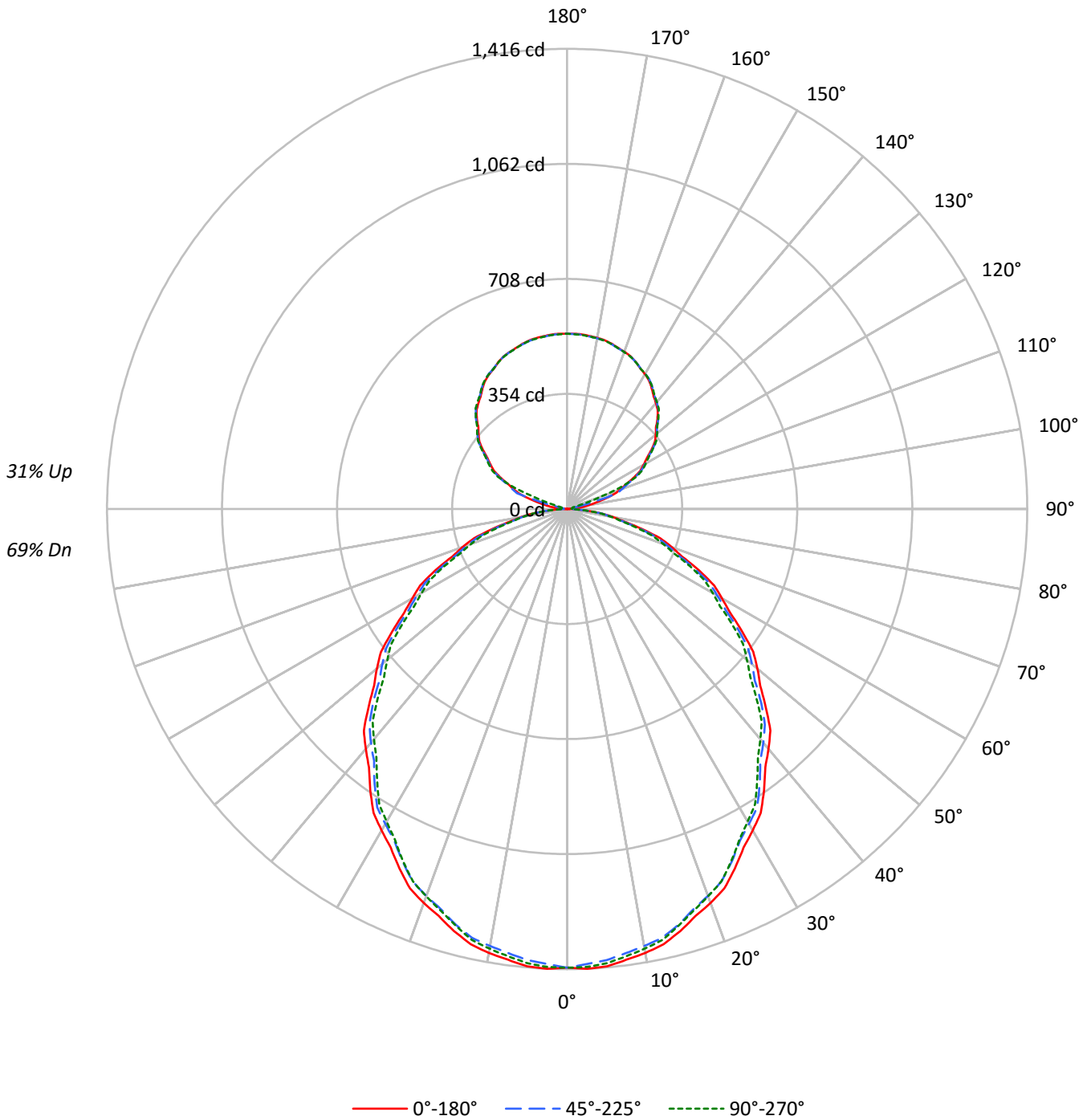
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-F

### 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   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 |
| 1   | 102 | 97  | 93  | 90  | 96  | 92  | 89  | 85  | 82 | 80 | 77 | 73 | 71 | 69 | 65 | 63 | 62 | 58 |
| 2   | 93  | 85  | 79  | 73  | 87  | 81  | 75  | 70  | 72 | 68 | 64 | 64 | 61 | 58 | 57 | 55 | 52 | 49 |
| 3   | 85  | 75  | 67  | 61  | 80  | 71  | 64  | 59  | 64 | 58 | 54 | 57 | 53 | 49 | 51 | 47 | 44 | 41 |
| 4   | 78  | 66  | 58  | 52  | 73  | 63  | 56  | 50  | 57 | 51 | 46 | 51 | 46 | 42 | 45 | 41 | 38 | 35 |
| 5   | 71  | 59  | 51  | 45  | 67  | 56  | 49  | 43  | 51 | 44 | 40 | 46 | 40 | 36 | 41 | 37 | 33 | 31 |
| 6   | 66  | 53  | 45  | 39  | 62  | 51  | 43  | 37  | 46 | 39 | 35 | 41 | 36 | 32 | 37 | 33 | 29 | 27 |
| 7   | 61  | 48  | 40  | 34  | 57  | 46  | 38  | 33  | 42 | 35 | 31 | 38 | 32 | 28 | 34 | 29 | 26 | 24 |
| 8   | 57  | 44  | 36  | 30  | 53  | 42  | 34  | 29  | 38 | 32 | 27 | 34 | 29 | 25 | 31 | 27 | 23 | 21 |
| 9   | 53  | 40  | 32  | 27  | 50  | 38  | 31  | 26  | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 19 |
| 10  | 49  | 37  | 29  | 24  | 47  | 35  | 28  | 24  | 32 | 26 | 22 | 29 | 24 | 21 | 27 | 22 | 19 | 17 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15193 | 15193 | 15193 |
| 5°  | 15263 | 15055 | 15159 |
| 10° | 15162 | 14924 | 15017 |
| 15° | 14985 | 14755 | 14782 |
| 20° | 14778 | 14513 | 14528 |
| 25° | 14500 | 14226 | 14197 |
| 30° | 14194 | 13908 | 13801 |
| 35° | 13875 | 13571 | 13397 |
| 40° | 13541 | 13198 | 12995 |
| 45° | 13172 | 12858 | 12543 |
| 50° | 12804 | 12439 | 12092 |
| 55° | 12322 | 12003 | 11639 |
| 60° | 11834 | 11496 | 11130 |
| 65° | 11405 | 10942 | 10603 |
| 70° | 10770 | 10313 | 9854  |
| 75° | 9844  | 9491  | 9087  |
| 80° | 8877  | 8498  | 8424  |
| 85° | 7793  | 7497  | 7188  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.0  | 2.5       |
| 10°-20°   | 375.4  | 7.1       |
| 20°-30°   | 554.6  | 10.4      |
| 30°-40°   | 647.8  | 12.2      |
| 40°-50°   | 651.3  | 12.2      |
| 50°-60°   | 572.1  | 10.8      |
| 60°-70°   | 426.2  | 8.0       |
| 70°-80°   | 242.8  | 4.6       |
| 80°-90°   | 71.2   | 1.3       |
| 90°-100°  | 19.6   | 0.4       |
| 100°-110° | 93.4   | 1.8       |
| 110°-120° | 224.4  | 4.2       |
| 120°-130° | 285.8  | 5.4       |
| 130°-140° | 305.4  | 5.7       |
| 140°-150° | 285.5  | 5.4       |
| 150°-160° | 230.3  | 4.3       |
| 160°-170° | 148.7  | 2.8       |
| 170°-180° | 51.2   | 1.0       |
| 0°-30°    | 1062.9 | 20.0      |
| 0°-40°    | 1710.7 | 32.2      |
| 0°-60°    | 2934.1 | 55.2      |
| 0°-90°    | 3674.3 | 69.1      |
| 90°-120°  | 337.5  | 6.3       |
| 90°-150°  | 1214.2 | 22.8      |
| 90°-180°  | 1644.0 | 30.9      |
| 0°-180°   | 5318.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1412 | 1412  | 1412 | 1412  | 1412 |      |
| 5°   | 1413 | 1406  | 1393 | 1405  | 1403 | 134  |
| 15°  | 1345 | 1339  | 1324 | 1333  | 1326 | 379  |
| 25°  | 1221 | 1213  | 1198 | 1199  | 1195 | 562  |
| 35°  | 1056 | 1048  | 1033 | 1026  | 1020 | 660  |
| 45°  | 865  | 860   | 845  | 831   | 824  | 668  |
| 55°  | 657  | 655   | 640  | 627   | 620  | 588  |
| 65°  | 448  | 441   | 430  | 420   | 416  | 442  |
| 75°  | 237  | 232   | 228  | 222   | 218  | 253  |
| 85°  | 63   | 61    | 61   | 58    | 58   | 69   |
| 90°  | 0    | 4     | 10   | 11    | 12   | 5    |
| 95°  | 24   | 9     | 12   | 15    | 15   | 30   |
| 105° | 119  | 122   | 88   | 21    | 18   | 127  |
| 115° | 224  | 226   | 230  | 234   | 236  | 221  |
| 125° | 316  | 319   | 320  | 321   | 322  | 282  |
| 135° | 393  | 395   | 397  | 398   | 397  | 302  |
| 145° | 454  | 456   | 457  | 458   | 458  | 284  |
| 155° | 500  | 499   | 499  | 501   | 499  | 230  |
| 165° | 527  | 526   | 525  | 528   | 526  | 149  |
| 175° | 539  | 537   | 538  | 540   | 537  | 51   |
| 180° | 539  | 539   | 539  | 539   | 539  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5°   | 1416.3 | 1415.5 | 1414.6 | 1413.7 | 1412.9 | 1411.2 | 1408.9 | 1406.5 | 1404.2 | 1401.8 | 1403.9 |
| 5°     | 1412.6 | 1411.3 | 1410.0 | 1408.6 | 1407.3 | 1405.2 | 1402.2 | 1399.2 | 1396.2 | 1393.3 | 1396.0 |
| 7.5°   | 1398.8 | 1397.5 | 1396.2 | 1394.8 | 1393.5 | 1391.2 | 1388.2 | 1385.1 | 1382.1 | 1378.9 | 1381.3 |
| 10°    | 1387.2 | 1385.9 | 1384.5 | 1383.1 | 1381.8 | 1379.4 | 1375.9 | 1372.3 | 1368.9 | 1365.4 | 1367.8 |
| 12.5°  | 1371.6 | 1370.6 | 1369.4 | 1368.2 | 1367.2 | 1364.9 | 1361.6 | 1358.3 | 1355.0 | 1351.7 | 1353.5 |
| 15°    | 1344.7 | 1343.6 | 1342.6 | 1341.5 | 1340.4 | 1338.1 | 1334.6 | 1331.1 | 1327.6 | 1324.1 | 1326.2 |
| 17.5°  | 1313.4 | 1312.0 | 1310.6 | 1309.2 | 1307.8 | 1305.4 | 1301.8 | 1298.3 | 1294.9 | 1291.3 | 1292.8 |
| 20°    | 1290.1 | 1288.5 | 1286.9 | 1285.2 | 1283.6 | 1281.0 | 1277.6 | 1274.1 | 1270.6 | 1267.0 | 1268.1 |
| 22.5°  | 1263.9 | 1262.3 | 1260.7 | 1259.0 | 1257.4 | 1254.9 | 1251.3 | 1247.9 | 1244.4 | 1240.8 | 1241.7 |
| 25°    | 1220.9 | 1219.3 | 1217.7 | 1216.1 | 1214.4 | 1211.9 | 1208.4 | 1204.9 | 1201.4 | 1197.8 | 1198.1 |
| 27.5°  | 1175.1 | 1173.5 | 1171.9 | 1170.4 | 1168.8 | 1166.1 | 1162.3 | 1158.6 | 1154.8 | 1151.0 | 1151.2 |
| 30°    | 1142.0 | 1140.7 | 1139.3 | 1138.0 | 1136.7 | 1134.1 | 1130.3 | 1126.5 | 1122.8 | 1119.0 | 1119.0 |
| 32.5°  | 1109.0 | 1107.2 | 1105.5 | 1103.7 | 1101.9 | 1099.6 | 1096.6 | 1093.8 | 1090.8 | 1087.9 | 1086.4 |
| 35°    | 1055.9 | 1054.3 | 1052.7 | 1051.1 | 1049.4 | 1046.9 | 1043.3 | 1039.8 | 1036.3 | 1032.8 | 1031.2 |
| 37.5°  | 1001.5 | 999.4  | 997.4  | 995.3  | 993.3  | 990.5  | 986.9  | 983.4  | 979.8  | 976.2  | 974.3  |
| 40°    | 963.7  | 962.0  | 960.4  | 958.8  | 957.2  | 954.5  | 950.7  | 946.9  | 943.2  | 939.3  | 937.2  |
| 42.5°  | 925.8  | 923.9  | 922.1  | 920.2  | 918.5  | 915.6  | 911.9  | 908.1  | 904.3  | 900.5  | 898.4  |
| 45°    | 865.3  | 864.2  | 863.2  | 862.1  | 861.0  | 858.7  | 855.2  | 851.7  | 848.2  | 844.7  | 841.5  |
| 47.5°  | 805.4  | 803.8  | 802.3  | 800.7  | 799.2  | 796.7  | 793.4  | 790.1  | 786.8  | 783.5  | 780.3  |
| 50°    | 764.6  | 763.2  | 761.9  | 760.5  | 759.2  | 756.8  | 753.2  | 749.8  | 746.3  | 742.8  | 739.8  |
| 52.5°  | 721.8  | 720.9  | 720.1  | 719.2  | 718.2  | 715.9  | 712.2  | 708.5  | 704.7  | 701.0  | 698.5  |
| 55°    | 656.6  | 656.3  | 656.0  | 655.8  | 655.5  | 653.6  | 650.1  | 646.6  | 643.1  | 639.6  | 636.6  |
| 57.5°  | 594.4  | 593.5  | 592.6  | 591.7  | 590.8  | 588.9  | 586.1  | 583.3  | 580.5  | 577.7  | 575.1  |
| 60°    | 549.7  | 549.5  | 549.2  | 548.9  | 548.7  | 547.0  | 543.7  | 540.5  | 537.3  | 534.0  | 531.5  |
| 62.5°  | 510.0  | 509.3  | 508.5  | 507.8  | 507.2  | 505.2  | 501.9  | 498.7  | 495.5  | 492.2  | 489.8  |
| 65°    | 447.8  | 446.5  | 445.1  | 443.8  | 442.5  | 440.4  | 437.7  | 435.1  | 432.3  | 429.6  | 427.5  |
| 67.5°  | 382.1  | 380.8  | 379.7  | 378.5  | 377.3  | 375.7  | 373.6  | 371.6  | 369.5  | 367.5  | 365.6  |
| 70°    | 342.2  | 340.6  | 339.0  | 337.4  | 335.8  | 334.1  | 332.5  | 330.9  | 329.3  | 327.7  | 325.8  |
| 72.5°  | 300.5  | 299.3  | 298.1  | 296.9  | 295.8  | 294.3  | 292.4  | 290.6  | 288.7  | 286.9  | 285.3  |
| 75°    | 236.7  | 235.6  | 234.5  | 233.4  | 232.4  | 231.4  | 230.6  | 229.8  | 229.0  | 228.2  | 226.9  |
| 77.5°  | 180.1  | 179.5  | 178.9  | 178.3  | 177.7  | 176.9  | 176.0  | 175.0  | 174.1  | 173.1  | 172.2  |
| 80°    | 143.2  | 142.4  | 141.6  | 140.8  | 140.0  | 139.3  | 138.8  | 138.2  | 137.7  | 137.1  | 136.9  |
| 82.5°  | 107.3  | 107.1  | 107.0  | 106.8  | 106.6  | 106.5  | 106.4  | 106.3  | 106.2  | 106.1  | 105.6  |
| 85°    | 63.1   | 62.6   | 62.1   | 61.5   | 61.0   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.1   |
| 87.5°  | 25.3   | 24.9   | 24.3   | 23.9   | 23.5   | 23.2   | 23.3   | 23.3   | 23.3   | 23.3   | 23.1   |
| 90°    | 0.4    | 1.2    | 2.1    | 3.0    | 3.9    | 5.0    | 6.2    | 7.3    | 8.5    | 9.6    | 10.0   |
| 92.5°  | 7.5    | 7.2    | 7.0    | 6.7    | 6.4    | 6.8    | 7.7    | 8.5    | 9.4    | 10.3   | 10.8   |
| 95°    | 24.4   | 20.8   | 17.1   | 13.5   | 9.8    | 8.5    | 9.5    | 10.4   | 11.4   | 12.4   | 13.0   |
| 97.5°  | 49.1   | 47.4   | 45.8   | 44.2   | 42.5   | 38.5   | 32.1   | 25.7   | 19.4   | 12.9   | 13.6   |
| 100°   | 67.7   | 69.5   | 71.2   | 73.0   | 74.8   | 68.8   | 54.9   | 41.0   | 27.1   | 13.2   | 13.9   |
| 102.5° | 88.8   | 90.2   | 91.4   | 92.7   | 94.0   | 87.0   | 71.9   | 56.7   | 41.6   | 26.4   | 24.2   |
| 105°   | 119.4  | 120.4  | 121.4  | 122.3  | 123.3  | 119.8  | 111.7  | 103.8  | 95.8   | 87.7   | 72.0   |
| 107.5° | 151.6  | 152.4  | 153.2  | 153.9  | 154.7  | 155.8  | 157.0  | 158.3  | 159.5  | 160.8  | 149.3  |
| 110°   | 173.1  | 173.8  | 174.5  | 175.2  | 175.9  | 176.7  | 177.7  | 178.7  | 179.7  | 180.7  | 177.7  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 193.6 | 194.2 | 194.8 | 195.5 | 196.2 | 197.0 | 198.0 | 198.9 | 199.9 | 200.9 | 200.9 |
| 115°   | 223.9 | 224.4 | 225.0 | 225.5 | 226.0 | 226.8 | 227.6 | 228.4 | 229.2 | 230.0 | 230.9 |
| 117.5° | 253.3 | 254.0 | 254.7 | 255.3 | 256.0 | 256.5 | 256.9 | 257.3 | 257.8 | 258.2 | 258.9 |
| 120°   | 271.6 | 272.4 | 273.2 | 274.0 | 274.8 | 275.4 | 275.6 | 275.9 | 276.2 | 276.4 | 277.1 |
| 122.5° | 290.3 | 290.9 | 291.5 | 292.2 | 292.8 | 293.4 | 293.7 | 294.0 | 294.4 | 294.7 | 295.2 |
| 125°   | 315.7 | 316.4 | 317.1 | 317.8 | 318.5 | 319.1 | 319.4 | 319.8 | 320.1 | 320.5 | 320.7 |
| 127.5° | 340.4 | 341.1 | 341.8 | 342.5 | 343.2 | 343.8 | 344.2 | 344.6 | 345.1 | 345.5 | 345.8 |
| 130°   | 355.8 | 356.5 | 357.2 | 357.9 | 358.6 | 359.2 | 359.5 | 359.9 | 360.3 | 360.5 | 360.9 |
| 132.5° | 370.5 | 371.2 | 371.9 | 372.6 | 373.4 | 373.8 | 374.2 | 374.4 | 374.7 | 375.0 | 375.3 |
| 135°   | 393.0 | 393.5 | 394.0 | 394.6 | 395.1 | 395.6 | 395.9 | 396.3 | 396.6 | 397.0 | 397.3 |
| 137.5° | 412.2 | 413.0 | 413.6 | 414.3 | 414.9 | 415.4 | 415.6 | 415.8 | 416.0 | 416.2 | 416.6 |
| 140°   | 425.1 | 425.6 | 426.1 | 426.7 | 427.2 | 427.6 | 427.8 | 428.1 | 428.4 | 428.6 | 429.0 |
| 142.5° | 436.9 | 437.5 | 438.0 | 438.5 | 439.1 | 439.4 | 439.7 | 440.0 | 440.2 | 440.5 | 440.8 |
| 145°   | 453.5 | 454.1 | 454.8 | 455.4 | 456.0 | 456.4 | 456.6 | 456.7 | 456.9 | 457.1 | 457.3 |
| 147.5° | 469.1 | 469.6 | 469.9 | 470.4 | 470.7 | 471.1 | 471.3 | 471.4 | 471.6 | 471.8 | 472.0 |
| 150°   | 478.8 | 479.0 | 479.3 | 479.6 | 479.8 | 480.0 | 480.2 | 480.4 | 480.5 | 480.7 | 480.9 |
| 152.5° | 487.4 | 487.5 | 487.7 | 487.8 | 487.9 | 488.0 | 488.1 | 488.2 | 488.3 | 488.5 | 488.7 |
| 155°   | 499.5 | 499.4 | 499.2 | 499.1 | 498.9 | 498.8 | 498.9 | 499.0 | 499.1 | 499.2 | 499.6 |
| 157.5° | 509.1 | 509.0 | 509.0 | 509.0 | 509.0 | 508.9 | 508.8 | 508.7 | 508.6 | 508.5 | 509.1 |
| 160°   | 514.8 | 514.7 | 514.6 | 514.5 | 514.4 | 514.3 | 514.2 | 514.2 | 514.1 | 514.0 | 514.5 |
| 162.5° | 520.2 | 520.0 | 519.8 | 519.6 | 519.3 | 519.2 | 519.1 | 519.0 | 518.9 | 518.8 | 519.4 |
| 165°   | 526.8 | 526.6 | 526.3 | 526.0 | 525.8 | 525.6 | 525.5 | 525.4 | 525.3 | 525.2 | 525.9 |
| 167.5° | 532.0 | 531.6 | 531.3 | 530.9 | 530.6 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 531.1 |
| 170°   | 534.8 | 534.5 | 534.1 | 533.8 | 533.4 | 533.2 | 533.2 | 533.2 | 533.2 | 533.2 | 534.0 |
| 172.5° | 536.7 | 536.4 | 535.9 | 535.5 | 535.0 | 534.8 | 534.9 | 535.0 | 535.1 | 535.1 | 535.8 |
| 175°   | 539.2 | 538.8 | 538.3 | 537.9 | 537.4 | 537.3 | 537.3 | 537.4 | 537.5 | 537.6 | 538.2 |
| 177.5° | 539.8 | 539.5 | 539.1 | 538.8 | 538.4 | 538.3 | 538.4 | 538.4 | 538.5 | 538.6 | 539.1 |
| 180°   | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5°   | 1406.0 | 1408.3 | 1410.4 | 1411.4 | 1411.1 | 1411.0 | 1410.7 | 1410.5 |
| 5°     | 1398.6 | 1401.3 | 1404.1 | 1405.2 | 1404.6 | 1404.1 | 1403.6 | 1403.0 |
| 7.5°   | 1383.8 | 1386.3 | 1388.7 | 1389.7 | 1389.4 | 1389.1 | 1388.8 | 1388.4 |
| 10°    | 1370.2 | 1372.6 | 1375.1 | 1376.0 | 1375.5 | 1374.9 | 1374.4 | 1373.9 |
| 12.5°  | 1355.3 | 1357.1 | 1358.9 | 1359.6 | 1359.3 | 1359.0 | 1358.6 | 1358.3 |
| 15°    | 1328.4 | 1330.5 | 1332.8 | 1333.0 | 1331.4 | 1329.7 | 1328.1 | 1326.5 |
| 17.5°  | 1294.3 | 1295.8 | 1297.4 | 1297.8 | 1297.3 | 1296.6 | 1296.0 | 1295.5 |
| 20°    | 1269.2 | 1270.3 | 1271.4 | 1271.5 | 1270.7 | 1269.9 | 1269.1 | 1268.3 |
| 22.5°  | 1242.6 | 1243.4 | 1244.3 | 1244.2 | 1243.2 | 1242.2 | 1241.2 | 1240.1 |
| 25°    | 1198.4 | 1198.7 | 1199.0 | 1198.7 | 1197.8 | 1197.0 | 1196.2 | 1195.4 |
| 27.5°  | 1151.5 | 1151.6 | 1151.9 | 1151.5 | 1150.5 | 1149.4 | 1148.4 | 1147.4 |
| 30°    | 1119.0 | 1119.0 | 1119.0 | 1118.0 | 1116.2 | 1114.3 | 1112.4 | 1110.4 |
| 32.5°  | 1084.9 | 1083.4 | 1081.9 | 1080.6 | 1079.6 | 1078.5 | 1077.5 | 1076.5 |
| 35°    | 1029.6 | 1028.0 | 1026.4 | 1024.8 | 1023.5 | 1022.2 | 1020.8 | 1019.5 |
| 37.5°  | 972.4  | 970.4  | 968.5  | 967.1  | 966.3  | 965.4  | 964.5  | 963.7  |
| 40°    | 935.0  | 932.9  | 930.8  | 929.1  | 928.0  | 926.9  | 925.9  | 924.8  |
| 42.5°  | 896.2  | 894.0  | 891.9  | 890.3  | 889.2  | 888.1  | 887.1  | 886.0  |
| 45°    | 838.2  | 835.0  | 831.8  | 829.5  | 828.1  | 826.8  | 825.5  | 824.0  |
| 47.5°  | 777.1  | 774.0  | 770.8  | 768.7  | 767.4  | 766.2  | 765.1  | 763.8  |
| 50°    | 736.8  | 733.9  | 730.8  | 728.6  | 727.0  | 725.3  | 723.7  | 722.1  |
| 52.5°  | 695.9  | 693.4  | 690.9  | 688.8  | 687.2  | 685.5  | 683.9  | 682.3  |
| 55°    | 633.6  | 630.7  | 627.8  | 625.5  | 624.2  | 622.9  | 621.5  | 620.2  |
| 57.5°  | 572.4  | 569.8  | 567.1  | 565.0  | 563.5  | 561.9  | 560.4  | 558.7  |
| 60°    | 529.1  | 526.7  | 524.3  | 522.5  | 521.0  | 519.7  | 518.4  | 517.0  |
| 62.5°  | 487.4  | 485.0  | 482.5  | 480.9  | 479.9  | 479.0  | 478.1  | 477.2  |
| 65°    | 425.3  | 423.1  | 421.0  | 419.5  | 418.7  | 417.9  | 417.1  | 416.3  |
| 67.5°  | 363.7  | 361.9  | 360.0  | 358.5  | 357.3  | 356.1  | 355.0  | 353.9  |
| 70°    | 323.9  | 322.0  | 320.1  | 318.5  | 317.2  | 315.8  | 314.5  | 313.1  |
| 72.5°  | 283.6  | 281.9  | 280.2  | 279.0  | 278.3  | 277.6  | 277.0  | 276.3  |
| 75°    | 225.5  | 224.1  | 222.7  | 221.7  | 220.9  | 220.1  | 219.3  | 218.5  |
| 77.5°  | 171.2  | 170.3  | 169.4  | 169.0  | 169.0  | 169.0  | 169.0  | 169.0  |
| 80°    | 136.6  | 136.3  | 136.1  | 135.9  | 135.9  | 135.9  | 135.9  | 135.9  |
| 82.5°  | 105.1  | 104.6  | 104.2  | 103.8  | 103.5  | 103.3  | 103.2  | 102.9  |
| 85°    | 59.6   | 59.0   | 58.5   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   |
| 87.5°  | 23.0   | 22.8   | 22.7   | 22.6   | 22.6   | 22.7   | 22.7   | 22.8   |
| 90°    | 10.3   | 10.7   | 11.1   | 11.3   | 11.5   | 11.7   | 11.9   | 12.0   |
| 92.5°  | 11.4   | 11.9   | 12.6   | 12.8   | 13.0   | 13.1   | 13.2   | 13.3   |
| 95°    | 13.6   | 14.3   | 14.9   | 15.2   | 15.2   | 15.2   | 15.2   | 15.2   |
| 97.5°  | 14.4   | 15.1   | 15.8   | 16.1   | 16.2   | 16.3   | 16.4   | 16.5   |
| 100°   | 14.6   | 15.3   | 16.1   | 16.5   | 16.6   | 16.7   | 16.8   | 16.9   |
| 102.5° | 21.9   | 19.7   | 17.6   | 16.5   | 16.7   | 16.9   | 16.9   | 17.1   |
| 105°   | 56.2   | 40.5   | 24.7   | 16.9   | 17.1   | 17.3   | 17.5   | 17.7   |
| 107.5° | 137.7  | 126.2  | 114.6  | 102.9  | 91.0   | 79.1   | 67.2   | 55.4   |
| 110°   | 174.8  | 171.8  | 168.9  | 161.1  | 148.4  | 135.6  | 122.9  | 110.2  |





TEST NUMBER: P332184-940

CATALOG NUMBER: S123DIW-S1000D460U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 201.0 | 201.0 | 201.1 | 199.7 | 197.1 | 194.4 | 191.7 | 189.0 |
| 115°   | 231.8 | 232.6 | 233.5 | 234.2 | 234.5 | 234.9 | 235.2 | 235.6 |
| 117.5° | 259.6 | 260.3 | 261.0 | 261.4 | 261.4 | 261.5 | 261.6 | 261.7 |
| 120°   | 277.9 | 278.6 | 279.3 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 |
| 122.5° | 295.7 | 296.2 | 296.7 | 296.9 | 297.0 | 297.1 | 297.2 | 297.3 |
| 125°   | 320.8 | 321.0 | 321.2 | 321.4 | 321.6 | 321.7 | 321.9 | 322.1 |
| 127.5° | 346.1 | 346.3 | 346.6 | 346.7 | 346.5 | 346.3 | 346.2 | 346.0 |
| 130°   | 361.2 | 361.6 | 361.9 | 362.0 | 361.9 | 361.7 | 361.5 | 361.3 |
| 132.5° | 375.7 | 376.0 | 376.4 | 376.5 | 376.2 | 375.9 | 375.7 | 375.5 |
| 135°   | 397.5 | 397.8 | 398.1 | 398.1 | 397.8 | 397.5 | 397.3 | 397.0 |
| 137.5° | 417.1 | 417.4 | 417.9 | 418.0 | 417.9 | 417.7 | 417.5 | 417.3 |
| 140°   | 429.4 | 429.7 | 430.1 | 430.2 | 430.0 | 429.8 | 429.6 | 429.4 |
| 142.5° | 441.1 | 441.4 | 441.7 | 441.7 | 441.4 | 441.2 | 441.0 | 440.7 |
| 145°   | 457.4 | 457.6 | 457.8 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 |
| 147.5° | 472.2 | 472.3 | 472.5 | 472.3 | 472.0 | 471.5 | 471.2 | 470.7 |
| 150°   | 481.1 | 481.3 | 481.4 | 481.4 | 481.2 | 480.9 | 480.6 | 480.4 |
| 152.5° | 489.1 | 489.4 | 489.7 | 489.6 | 489.3 | 488.8 | 488.5 | 488.0 |
| 155°   | 500.1 | 500.5 | 501.0 | 500.9 | 500.3 | 499.8 | 499.3 | 498.8 |
| 157.5° | 509.6 | 510.1 | 510.7 | 510.6 | 509.9 | 509.3 | 508.5 | 507.8 |
| 160°   | 515.1 | 515.6 | 516.1 | 516.1 | 515.5 | 514.9 | 514.2 | 513.6 |
| 162.5° | 520.0 | 520.7 | 521.2 | 521.3 | 520.7 | 520.1 | 519.6 | 519.1 |
| 165°   | 526.6 | 527.4 | 528.1 | 528.1 | 527.4 | 526.9 | 526.3 | 525.7 |
| 167.5° | 531.8 | 532.4 | 533.2 | 533.2 | 532.4 | 531.8 | 531.1 | 530.4 |
| 170°   | 534.7 | 535.4 | 536.1 | 536.1 | 535.4 | 534.7 | 534.0 | 533.2 |
| 172.5° | 536.5 | 537.3 | 538.0 | 538.0 | 537.2 | 536.4 | 535.7 | 534.8 |
| 175°   | 538.9 | 539.5 | 540.1 | 540.1 | 539.4 | 538.7 | 538.0 | 537.3 |
| 177.5° | 539.8 | 540.3 | 540.9 | 540.8 | 540.1 | 539.4 | 538.7 | 538.0 |
| 180°   | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 | 539.2 |

(END OF REPORT)