

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: P332185-927

Luminaire Tested: **S123DIW-S1000D460U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332185-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1000D460U927-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4530.4 lumens
Efficiency: N/A
Efficacy: 98.1 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

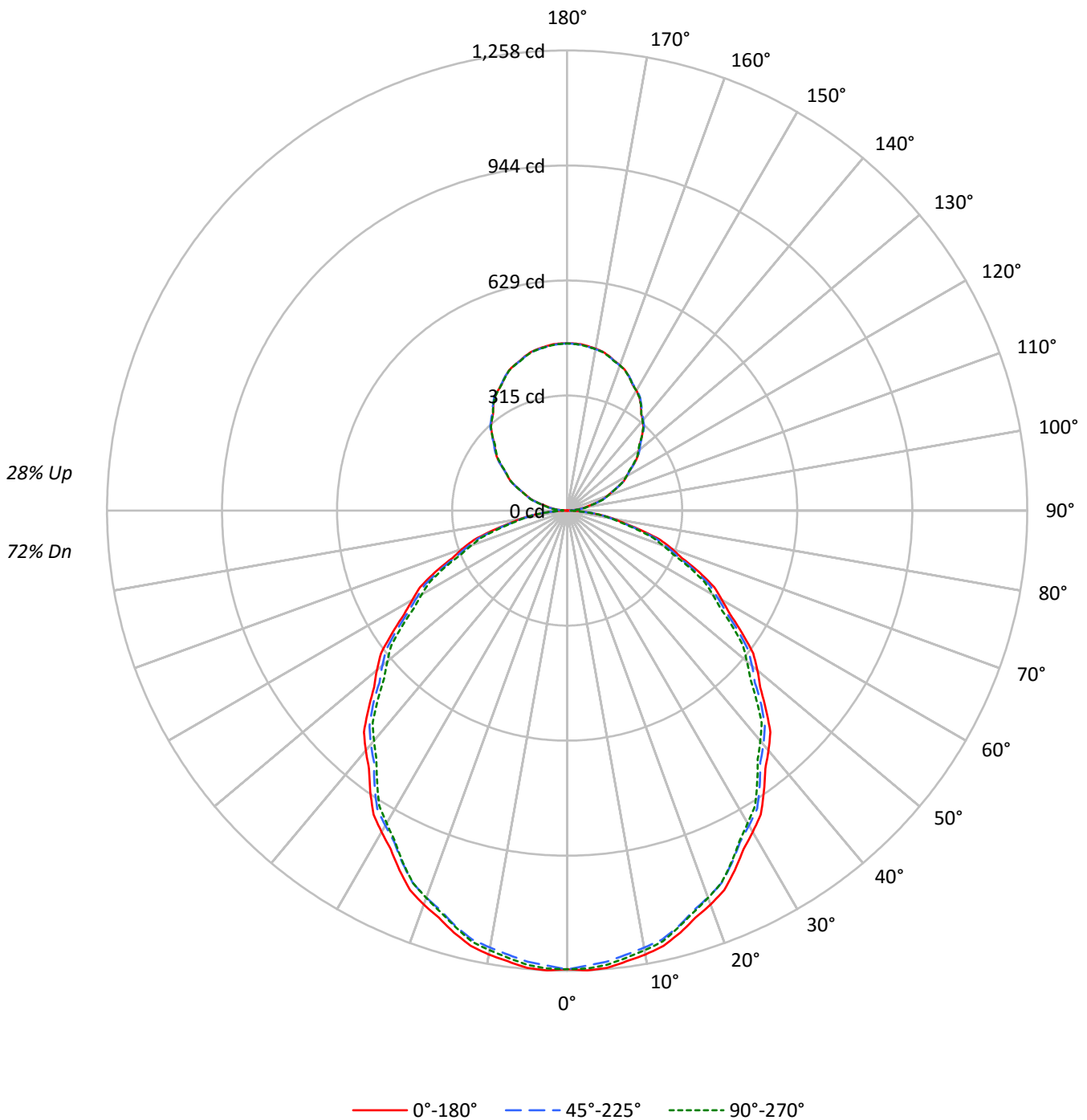
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

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 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 | 72 |
| 1 | 103 | 98 | 94 | 90 | 97 | 93 | 90 | 86 | 84 | 81 | 79 | 75 | 73 | 71 | 67 | 66 | 64 | 61 |
| 2 | 93 | 86 | 79 | 74 | 88 | 81 | 76 | 71 | 73 | 69 | 65 | 66 | 63 | 59 | 59 | 57 | 54 | 51 |
| 3 | 85 | 75 | 68 | 62 | 80 | 72 | 65 | 59 | 65 | 59 | 55 | 58 | 54 | 50 | 53 | 49 | 46 | 43 |
| 4 | 78 | 67 | 58 | 52 | 74 | 64 | 56 | 50 | 58 | 52 | 47 | 52 | 47 | 43 | 47 | 43 | 40 | 37 |
| 5 | 72 | 60 | 51 | 45 | 68 | 57 | 49 | 43 | 52 | 45 | 40 | 47 | 42 | 37 | 42 | 38 | 35 | 32 |
| 6 | 66 | 54 | 45 | 39 | 63 | 51 | 43 | 38 | 47 | 40 | 35 | 42 | 37 | 33 | 38 | 34 | 30 | 28 |
| 7 | 61 | 49 | 40 | 34 | 58 | 46 | 39 | 33 | 42 | 36 | 31 | 39 | 33 | 29 | 35 | 31 | 27 | 25 |
| 8 | 57 | 44 | 36 | 31 | 54 | 42 | 35 | 30 | 39 | 32 | 28 | 35 | 30 | 26 | 32 | 28 | 24 | 22 |
| 9 | 53 | 40 | 33 | 27 | 50 | 39 | 32 | 27 | 36 | 29 | 25 | 33 | 27 | 24 | 30 | 25 | 22 | 20 |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 21 | 28 | 23 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13497 | 13497 | 13497 |
| 5° | 13560 | 13374 | 13467 |
| 10° | 13470 | 13258 | 13340 |
| 15° | 13312 | 13108 | 13133 |
| 20° | 13128 | 12893 | 12906 |
| 25° | 12883 | 12638 | 12613 |
| 30° | 12609 | 12356 | 12261 |
| 35° | 12326 | 12056 | 11901 |
| 40° | 12029 | 11726 | 11545 |
| 45° | 11702 | 11423 | 11144 |
| 50° | 11375 | 11050 | 10742 |
| 55° | 10946 | 10663 | 10340 |
| 60° | 10514 | 10213 | 9888 |
| 65° | 10132 | 9722 | 9419 |
| 70° | 9567 | 9161 | 8752 |
| 75° | 8742 | 8430 | 8072 |
| 80° | 7885 | 7550 | 7482 |
| 85° | 6928 | 6657 | 6385 |



TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.1 | 2.6 |
| 10°-20° | 333.5 | 7.4 |
| 20°-30° | 492.7 | 10.9 |
| 30°-40° | 575.5 | 12.7 |
| 40°-50° | 578.6 | 12.8 |
| 50°-60° | 508.2 | 11.2 |
| 60°-70° | 378.6 | 8.4 |
| 70°-80° | 215.7 | 4.8 |
| 80°-90° | 63.3 | 1.4 |
| 90°-100° | 29.8 | 0.7 |
| 100°-110° | 89.1 | 2.0 |
| 110°-120° | 151.6 | 3.3 |
| 120°-130° | 199.4 | 4.4 |
| 130°-140° | 224.1 | 4.9 |
| 140°-150° | 220.3 | 4.9 |
| 150°-160° | 185.4 | 4.1 |
| 160°-170° | 123.4 | 2.7 |
| 170°-180° | 43.2 | 1.0 |
| 0°-30° | 944.3 | 20.8 |
| 0°-40° | 1519.8 | 33.5 |
| 0°-60° | 2606.6 | 57.5 |
| 0°-90° | 3264.2 | 72.1 |
| 90°-120° | 270.4 | 6.0 |
| 90°-150° | 914.1 | 20.2 |
| 90°-180° | 1266.0 | 27.9 |
| 0°-180° | 4530.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1254 | 1254 | 1254 | 1254 | 1254 | |
| 5° | 1255 | 1249 | 1238 | 1248 | 1246 | 119 |
| 15° | 1195 | 1190 | 1176 | 1184 | 1178 | 337 |
| 25° | 1085 | 1078 | 1064 | 1065 | 1062 | 499 |
| 35° | 938 | 931 | 918 | 911 | 906 | 587 |
| 45° | 769 | 764 | 750 | 738 | 732 | 593 |
| 55° | 583 | 582 | 568 | 557 | 551 | 522 |
| 65° | 398 | 392 | 382 | 373 | 370 | 392 |
| 75° | 210 | 206 | 203 | 197 | 194 | 225 |
| 85° | 56 | 54 | 54 | 52 | 52 | 62 |
| 90° | 0 | 4 | 9 | 10 | 11 | 4 |
| 95° | 21 | 24 | 26 | 28 | 28 | 24 |
| 105° | 81 | 82 | 85 | 85 | 86 | 87 |
| 115° | 153 | 154 | 153 | 153 | 153 | 151 |
| 125° | 223 | 224 | 224 | 222 | 221 | 199 |
| 135° | 290 | 292 | 292 | 290 | 289 | 223 |
| 145° | 352 | 352 | 353 | 353 | 352 | 219 |
| 155° | 402 | 402 | 403 | 404 | 402 | 185 |
| 165° | 438 | 437 | 437 | 439 | 437 | 124 |
| 175° | 456 | 455 | 454 | 456 | 454 | 43 |
| 180° | 457 | 457 | 457 | 457 | 457 | |



TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 |
| 2.5° | 1258.2 | 1257.5 | 1256.7 | 1255.9 | 1255.2 | 1253.7 | 1251.6 | 1249.5 | 1247.4 | 1245.3 | 1247.2 |
| 5° | 1255.0 | 1253.8 | 1252.6 | 1251.4 | 1250.2 | 1248.3 | 1245.7 | 1243.0 | 1240.4 | 1237.8 | 1240.2 |
| 7.5° | 1242.7 | 1241.5 | 1240.3 | 1239.1 | 1237.9 | 1236.0 | 1233.3 | 1230.5 | 1227.8 | 1225.0 | 1227.2 |
| 10° | 1232.4 | 1231.2 | 1229.9 | 1228.8 | 1227.6 | 1225.4 | 1222.3 | 1219.2 | 1216.1 | 1213.0 | 1215.1 |
| 12.5° | 1218.5 | 1217.6 | 1216.6 | 1215.5 | 1214.6 | 1212.6 | 1209.7 | 1206.7 | 1203.8 | 1200.9 | 1202.5 |
| 15° | 1194.6 | 1193.7 | 1192.7 | 1191.8 | 1190.8 | 1188.7 | 1185.7 | 1182.6 | 1179.4 | 1176.3 | 1178.2 |
| 17.5° | 1166.8 | 1165.5 | 1164.3 | 1163.1 | 1161.8 | 1159.7 | 1156.5 | 1153.4 | 1150.3 | 1147.2 | 1148.5 |
| 20° | 1146.1 | 1144.7 | 1143.3 | 1141.8 | 1140.3 | 1138.0 | 1135.0 | 1131.9 | 1128.8 | 1125.6 | 1126.6 |
| 22.5° | 1122.8 | 1121.4 | 1120.0 | 1118.5 | 1117.1 | 1114.8 | 1111.7 | 1108.6 | 1105.5 | 1102.3 | 1103.1 |
| 25° | 1084.7 | 1083.2 | 1081.8 | 1080.4 | 1078.9 | 1076.7 | 1073.5 | 1070.4 | 1067.3 | 1064.1 | 1064.4 |
| 27.5° | 1043.9 | 1042.5 | 1041.1 | 1039.7 | 1038.3 | 1035.9 | 1032.6 | 1029.3 | 1025.9 | 1022.5 | 1022.7 |
| 30° | 1014.5 | 1013.4 | 1012.2 | 1011.0 | 1009.8 | 1007.5 | 1004.2 | 1000.8 | 997.4 | 994.1 | 994.1 |
| 32.5° | 985.2 | 983.7 | 982.1 | 980.5 | 978.9 | 976.8 | 974.2 | 971.7 | 969.1 | 966.5 | 965.1 |
| 35° | 938.0 | 936.6 | 935.2 | 933.7 | 932.2 | 930.0 | 926.9 | 923.8 | 920.7 | 917.5 | 916.1 |
| 37.5° | 889.7 | 887.9 | 886.1 | 884.2 | 882.4 | 880.0 | 876.8 | 873.6 | 870.4 | 867.3 | 865.5 |
| 40° | 856.1 | 854.6 | 853.2 | 851.8 | 850.3 | 848.0 | 844.5 | 841.2 | 837.9 | 834.5 | 832.6 |
| 42.5° | 822.4 | 820.8 | 819.2 | 817.5 | 815.9 | 813.4 | 810.1 | 806.8 | 803.4 | 800.0 | 798.1 |
| 45° | 768.7 | 767.8 | 766.8 | 765.9 | 764.9 | 762.9 | 759.8 | 756.6 | 753.5 | 750.4 | 747.6 |
| 47.5° | 715.5 | 714.1 | 712.7 | 711.3 | 710.0 | 707.7 | 704.9 | 702.0 | 699.0 | 696.1 | 693.2 |
| 50° | 679.3 | 678.0 | 676.8 | 675.7 | 674.5 | 672.3 | 669.2 | 666.1 | 663.0 | 659.9 | 657.2 |
| 52.5° | 641.3 | 640.5 | 639.7 | 638.9 | 638.0 | 636.0 | 632.7 | 629.4 | 626.1 | 622.7 | 620.5 |
| 55° | 583.3 | 583.0 | 582.8 | 582.6 | 582.3 | 580.7 | 577.6 | 574.4 | 571.3 | 568.2 | 565.5 |
| 57.5° | 528.1 | 527.3 | 526.5 | 525.7 | 524.8 | 523.2 | 520.7 | 518.2 | 515.7 | 513.3 | 510.9 |
| 60° | 488.4 | 488.1 | 487.9 | 487.7 | 487.4 | 485.9 | 483.0 | 480.1 | 477.3 | 474.4 | 472.2 |
| 62.5° | 453.0 | 452.4 | 451.8 | 451.1 | 450.6 | 448.9 | 445.9 | 443.1 | 440.2 | 437.3 | 435.1 |
| 65° | 397.8 | 396.6 | 395.5 | 394.3 | 393.1 | 391.3 | 388.9 | 386.5 | 384.0 | 381.7 | 379.8 |
| 67.5° | 339.5 | 338.3 | 337.3 | 336.3 | 335.2 | 333.7 | 331.9 | 330.1 | 328.3 | 326.5 | 324.8 |
| 70° | 304.0 | 302.6 | 301.2 | 299.8 | 298.3 | 296.8 | 295.4 | 294.0 | 292.6 | 291.1 | 289.5 |
| 72.5° | 267.0 | 265.9 | 264.8 | 263.8 | 262.8 | 261.4 | 259.8 | 258.2 | 256.5 | 254.8 | 253.4 |
| 75° | 210.2 | 209.3 | 208.3 | 207.4 | 206.4 | 205.6 | 204.9 | 204.1 | 203.4 | 202.7 | 201.5 |
| 77.5° | 160.0 | 159.5 | 158.9 | 158.4 | 157.9 | 157.2 | 156.4 | 155.5 | 154.6 | 153.8 | 153.0 |
| 80° | 127.2 | 126.5 | 125.8 | 125.1 | 124.4 | 123.7 | 123.3 | 122.8 | 122.3 | 121.8 | 121.6 |
| 82.5° | 95.3 | 95.1 | 95.1 | 94.9 | 94.7 | 94.6 | 94.5 | 94.4 | 94.3 | 94.3 | 93.8 |
| 85° | 56.1 | 55.6 | 55.1 | 54.7 | 54.2 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 | 53.4 |
| 87.5° | 22.5 | 22.1 | 21.7 | 21.2 | 20.8 | 20.6 | 20.7 | 20.7 | 20.7 | 20.7 | 20.6 |
| 90° | 0.4 | 1.2 | 2.0 | 2.8 | 3.6 | 4.4 | 5.5 | 6.6 | 7.6 | 8.6 | 9.0 |
| 92.5° | 8.7 | 9.3 | 9.7 | 10.3 | 10.9 | 11.4 | 12.0 | 12.6 | 13.2 | 13.8 | 14.0 |
| 95° | 21.2 | 21.7 | 22.3 | 22.9 | 23.4 | 24.0 | 24.6 | 25.3 | 25.9 | 26.5 | 26.9 |
| 97.5° | 37.6 | 38.0 | 38.4 | 38.9 | 39.3 | 39.7 | 40.2 | 40.6 | 41.1 | 41.6 | 41.9 |
| 100° | 48.8 | 49.3 | 49.7 | 50.2 | 50.7 | 51.2 | 51.6 | 52.0 | 52.4 | 52.8 | 53.0 |
| 102.5° | 61.7 | 62.0 | 62.3 | 62.6 | 62.9 | 63.3 | 63.8 | 64.3 | 64.9 | 65.4 | 65.7 |
| 105° | 80.8 | 81.0 | 81.1 | 81.3 | 81.4 | 81.8 | 82.5 | 83.3 | 84.0 | 84.7 | 84.7 |
| 107.5° | 102.9 | 103.0 | 103.1 | 103.1 | 103.3 | 103.5 | 103.8 | 104.0 | 104.3 | 104.6 | 104.9 |
| 110° | 116.7 | 116.8 | 117.0 | 117.2 | 117.3 | 117.5 | 117.6 | 117.8 | 118.0 | 118.1 | 118.4 |



TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 131.0 | 131.1 | 131.3 | 131.3 | 131.4 | 131.5 | 131.5 | 131.6 | 131.6 | 131.6 | 132.0 |
| 115° | 152.6 | 152.8 | 153.0 | 153.3 | 153.5 | 153.6 | 153.4 | 153.3 | 153.1 | 153.0 | 153.0 |
| 117.5° | 174.3 | 174.4 | 174.6 | 174.8 | 174.9 | 174.8 | 174.7 | 174.4 | 174.3 | 174.0 | 174.0 |
| 120° | 187.7 | 188.2 | 188.7 | 189.2 | 189.6 | 189.7 | 189.3 | 188.9 | 188.5 | 188.1 | 188.1 |
| 122.5° | 201.8 | 202.2 | 202.6 | 202.9 | 203.2 | 203.3 | 203.1 | 202.9 | 202.7 | 202.5 | 202.2 |
| 125° | 223.3 | 223.6 | 223.8 | 224.0 | 224.3 | 224.3 | 224.1 | 223.9 | 223.8 | 223.6 | 223.3 |
| 127.5° | 243.1 | 243.6 | 244.2 | 244.6 | 245.2 | 245.3 | 245.2 | 244.9 | 244.8 | 244.6 | 244.2 |
| 130° | 256.4 | 257.0 | 257.6 | 258.3 | 258.9 | 259.0 | 258.8 | 258.6 | 258.3 | 258.1 | 257.8 |
| 132.5° | 269.5 | 270.1 | 270.8 | 271.5 | 272.1 | 272.4 | 272.1 | 272.0 | 271.8 | 271.6 | 271.2 |
| 135° | 289.7 | 290.2 | 290.7 | 291.1 | 291.6 | 291.8 | 291.8 | 291.7 | 291.6 | 291.5 | 291.2 |
| 137.5° | 308.4 | 308.8 | 309.2 | 309.6 | 310.0 | 310.3 | 310.5 | 310.7 | 310.9 | 311.1 | 310.8 |
| 140° | 321.3 | 321.7 | 322.1 | 322.5 | 322.9 | 323.1 | 323.2 | 323.3 | 323.4 | 323.4 | 323.4 |
| 142.5° | 333.1 | 333.5 | 333.9 | 334.3 | 334.7 | 334.9 | 335.1 | 335.3 | 335.4 | 335.5 | 335.4 |
| 145° | 351.5 | 351.6 | 351.8 | 352.0 | 352.1 | 352.3 | 352.5 | 352.8 | 353.0 | 353.2 | 353.2 |
| 147.5° | 367.6 | 367.8 | 368.1 | 368.4 | 368.7 | 368.9 | 369.2 | 369.4 | 369.6 | 369.9 | 369.9 |
| 150° | 378.7 | 378.9 | 379.1 | 379.2 | 379.4 | 379.5 | 379.7 | 379.9 | 380.0 | 380.2 | 380.2 |
| 152.5° | 387.9 | 388.2 | 388.4 | 388.6 | 388.8 | 389.0 | 389.0 | 389.2 | 389.3 | 389.4 | 389.5 |
| 155° | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.5 | 402.6 | 402.7 | 402.7 | 402.8 | 403.1 |
| 157.5° | 414.8 | 414.7 | 414.6 | 414.5 | 414.4 | 414.4 | 414.5 | 414.5 | 414.5 | 414.6 | 414.9 |
| 160° | 422.6 | 422.4 | 422.2 | 422.1 | 421.9 | 421.8 | 421.8 | 421.8 | 421.8 | 421.8 | 422.2 |
| 162.5° | 429.4 | 429.2 | 429.0 | 428.7 | 428.6 | 428.5 | 428.5 | 428.6 | 428.6 | 428.7 | 429.1 |
| 165° | 438.3 | 438.1 | 437.8 | 437.6 | 437.4 | 437.3 | 437.3 | 437.3 | 437.3 | 437.3 | 437.8 |
| 167.5° | 445.4 | 445.1 | 444.8 | 444.5 | 444.2 | 444.0 | 444.1 | 444.2 | 444.3 | 444.3 | 444.8 |
| 170° | 449.5 | 449.2 | 448.9 | 448.5 | 448.2 | 448.1 | 448.1 | 448.1 | 448.1 | 448.1 | 448.6 |
| 172.5° | 452.7 | 452.3 | 452.0 | 451.7 | 451.3 | 451.1 | 451.1 | 451.1 | 451.1 | 451.1 | 451.7 |
| 175° | 455.9 | 455.6 | 455.3 | 455.0 | 454.6 | 454.5 | 454.5 | 454.5 | 454.5 | 454.5 | 455.0 |
| 177.5° | 457.3 | 457.0 | 456.8 | 456.5 | 456.3 | 456.1 | 456.1 | 456.1 | 456.1 | 456.1 | 456.5 |
| 180° | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 |



TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 |
| 2.5° | 1249.1 | 1251.1 | 1253.0 | 1253.9 | 1253.6 | 1253.5 | 1253.2 | 1253.1 |
| 5° | 1242.5 | 1244.9 | 1247.4 | 1248.3 | 1247.8 | 1247.4 | 1246.9 | 1246.4 |
| 7.5° | 1229.4 | 1231.5 | 1233.7 | 1234.6 | 1234.3 | 1234.1 | 1233.7 | 1233.4 |
| 10° | 1217.3 | 1219.4 | 1221.6 | 1222.4 | 1221.9 | 1221.5 | 1221.0 | 1220.5 |
| 12.5° | 1204.0 | 1205.6 | 1207.2 | 1207.8 | 1207.6 | 1207.3 | 1207.0 | 1206.7 |
| 15° | 1180.1 | 1182.0 | 1184.0 | 1184.2 | 1182.8 | 1181.3 | 1179.9 | 1178.5 |
| 17.5° | 1149.9 | 1151.2 | 1152.5 | 1152.9 | 1152.5 | 1151.9 | 1151.4 | 1150.9 |
| 20° | 1127.5 | 1128.5 | 1129.5 | 1129.6 | 1128.9 | 1128.1 | 1127.4 | 1126.7 |
| 22.5° | 1103.9 | 1104.6 | 1105.4 | 1105.3 | 1104.5 | 1103.5 | 1102.6 | 1101.7 |
| 25° | 1064.6 | 1064.9 | 1065.2 | 1064.9 | 1064.1 | 1063.4 | 1062.7 | 1062.0 |
| 27.5° | 1022.9 | 1023.1 | 1023.3 | 1022.9 | 1022.1 | 1021.1 | 1020.3 | 1019.3 |
| 30° | 994.1 | 994.1 | 994.1 | 993.2 | 991.6 | 989.9 | 988.2 | 986.5 |
| 32.5° | 963.8 | 962.5 | 961.2 | 960.0 | 959.1 | 958.1 | 957.3 | 956.3 |
| 35° | 914.7 | 913.2 | 911.8 | 910.5 | 909.3 | 908.1 | 906.9 | 905.7 |
| 37.5° | 863.9 | 862.1 | 860.4 | 859.1 | 858.4 | 857.6 | 856.8 | 856.1 |
| 40° | 830.7 | 828.8 | 826.9 | 825.4 | 824.4 | 823.5 | 822.5 | 821.6 |
| 42.5° | 796.1 | 794.2 | 792.3 | 790.9 | 790.0 | 789.0 | 788.1 | 787.1 |
| 45° | 744.7 | 741.8 | 738.9 | 736.9 | 735.7 | 734.5 | 733.3 | 732.1 |
| 47.5° | 690.4 | 687.6 | 684.8 | 682.9 | 681.8 | 680.7 | 679.7 | 678.6 |
| 50° | 654.6 | 652.0 | 649.3 | 647.3 | 645.9 | 644.4 | 642.9 | 641.5 |
| 52.5° | 618.2 | 616.0 | 613.8 | 611.9 | 610.5 | 609.0 | 607.6 | 606.2 |
| 55° | 562.9 | 560.3 | 557.7 | 555.7 | 554.5 | 553.3 | 552.2 | 551.0 |
| 57.5° | 508.5 | 506.2 | 503.8 | 501.9 | 500.6 | 499.2 | 497.8 | 496.4 |
| 60° | 470.1 | 467.9 | 465.8 | 464.1 | 462.9 | 461.7 | 460.5 | 459.3 |
| 62.5° | 433.0 | 430.9 | 428.6 | 427.2 | 426.4 | 425.6 | 424.8 | 424.0 |
| 65° | 377.9 | 375.9 | 374.0 | 372.7 | 372.0 | 371.3 | 370.5 | 369.8 |
| 67.5° | 323.1 | 321.5 | 319.8 | 318.5 | 317.4 | 316.4 | 315.4 | 314.4 |
| 70° | 287.7 | 286.1 | 284.4 | 283.0 | 281.8 | 280.6 | 279.4 | 278.1 |
| 72.5° | 251.9 | 250.4 | 248.9 | 247.9 | 247.2 | 246.6 | 246.1 | 245.4 |
| 75° | 200.3 | 199.1 | 197.9 | 196.9 | 196.2 | 195.5 | 194.8 | 194.1 |
| 77.5° | 152.1 | 151.3 | 150.5 | 150.1 | 150.1 | 150.1 | 150.1 | 150.1 |
| 80° | 121.4 | 121.1 | 120.9 | 120.7 | 120.7 | 120.7 | 120.7 | 120.7 |
| 82.5° | 93.4 | 92.9 | 92.5 | 92.2 | 92.0 | 91.8 | 91.7 | 91.4 |
| 85° | 52.9 | 52.4 | 52.0 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 |
| 87.5° | 20.4 | 20.3 | 20.2 | 20.1 | 20.2 | 20.2 | 20.2 | 20.3 |
| 90° | 9.3 | 9.6 | 9.9 | 10.1 | 10.3 | 10.5 | 10.6 | 10.8 |
| 92.5° | 14.3 | 14.6 | 14.8 | 14.9 | 14.8 | 14.7 | 14.6 | 14.5 |
| 95° | 27.2 | 27.5 | 27.8 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| 97.5° | 42.3 | 42.7 | 43.0 | 43.2 | 43.2 | 43.2 | 43.1 | 43.1 |
| 100° | 53.2 | 53.5 | 53.7 | 53.9 | 54.1 | 54.3 | 54.4 | 54.6 |
| 102.5° | 65.9 | 66.1 | 66.4 | 66.5 | 66.5 | 66.4 | 66.4 | 66.3 |
| 105° | 84.7 | 84.7 | 84.7 | 84.8 | 85.0 | 85.2 | 85.3 | 85.5 |
| 107.5° | 105.1 | 105.4 | 105.6 | 105.7 | 105.6 | 105.5 | 105.4 | 105.4 |
| 110° | 118.7 | 119.1 | 119.4 | 119.5 | 119.3 | 119.1 | 119.0 | 118.8 |



TEST NUMBER: P332185-927

CATALOG NUMBER: S123DIW-S1000D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.4 | 132.8 | 133.2 | 133.3 | 133.2 | 133.2 | 133.2 | 133.2 |
| 115° | 153.1 | 153.2 | 153.3 | 153.3 | 153.2 | 153.1 | 153.0 | 153.0 |
| 117.5° | 174.0 | 174.0 | 174.0 | 173.9 | 173.6 | 173.4 | 173.2 | 172.9 |
| 120° | 188.0 | 187.9 | 187.8 | 187.7 | 187.5 | 187.4 | 187.2 | 187.0 |
| 122.5° | 202.1 | 201.8 | 201.6 | 201.5 | 201.2 | 201.0 | 200.7 | 200.5 |
| 125° | 223.0 | 222.7 | 222.4 | 222.0 | 221.7 | 221.4 | 221.1 | 220.8 |
| 127.5° | 243.8 | 243.3 | 242.8 | 242.4 | 242.1 | 241.7 | 241.3 | 241.0 |
| 130° | 257.5 | 257.1 | 256.8 | 256.4 | 255.9 | 255.3 | 254.8 | 254.1 |
| 132.5° | 270.8 | 270.5 | 270.1 | 269.7 | 269.3 | 268.8 | 268.4 | 267.9 |
| 135° | 290.9 | 290.6 | 290.3 | 290.0 | 289.9 | 289.7 | 289.5 | 289.4 |
| 137.5° | 310.5 | 310.1 | 309.7 | 309.4 | 309.1 | 308.9 | 308.6 | 308.2 |
| 140° | 323.3 | 323.2 | 323.1 | 322.8 | 322.3 | 321.7 | 321.2 | 320.6 |
| 142.5° | 335.3 | 335.3 | 335.2 | 334.9 | 334.5 | 334.1 | 333.7 | 333.2 |
| 145° | 353.1 | 353.0 | 352.9 | 352.8 | 352.4 | 352.1 | 351.8 | 351.5 |
| 147.5° | 369.9 | 369.9 | 369.9 | 369.6 | 369.2 | 368.6 | 368.1 | 367.7 |
| 150° | 380.2 | 380.2 | 380.2 | 379.9 | 379.5 | 379.0 | 378.5 | 378.0 |
| 152.5° | 389.6 | 389.8 | 389.9 | 389.8 | 389.4 | 388.9 | 388.5 | 388.1 |
| 155° | 403.5 | 403.8 | 404.1 | 403.9 | 403.4 | 402.8 | 402.3 | 401.7 |
| 157.5° | 415.3 | 415.7 | 416.0 | 415.9 | 415.5 | 415.0 | 414.5 | 414.2 |
| 160° | 422.6 | 423.0 | 423.4 | 423.4 | 423.1 | 422.8 | 422.5 | 422.2 |
| 162.5° | 429.5 | 429.9 | 430.3 | 430.2 | 429.8 | 429.2 | 428.7 | 428.2 |
| 165° | 438.2 | 438.7 | 439.2 | 439.1 | 438.6 | 438.0 | 437.4 | 436.9 |
| 167.5° | 445.3 | 445.8 | 446.2 | 446.2 | 445.8 | 445.3 | 444.8 | 444.3 |
| 170° | 449.2 | 449.7 | 450.3 | 450.3 | 449.7 | 449.2 | 448.6 | 448.1 |
| 172.5° | 452.2 | 452.7 | 453.1 | 453.1 | 452.6 | 452.0 | 451.5 | 450.9 |
| 175° | 455.4 | 455.9 | 456.4 | 456.4 | 455.8 | 455.3 | 454.7 | 454.2 |
| 177.5° | 456.9 | 457.3 | 457.6 | 457.6 | 457.2 | 456.8 | 456.3 | 455.8 |
| 180° | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 |

(END OF REPORT)