

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: P332464-930

Luminaire Tested: **S123RDIW-S1000D1320U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332464-930
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: S123RDIW-S1000D1320U930-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7397.9 lumens
Efficiency: N/A
Efficacy: 106.0 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

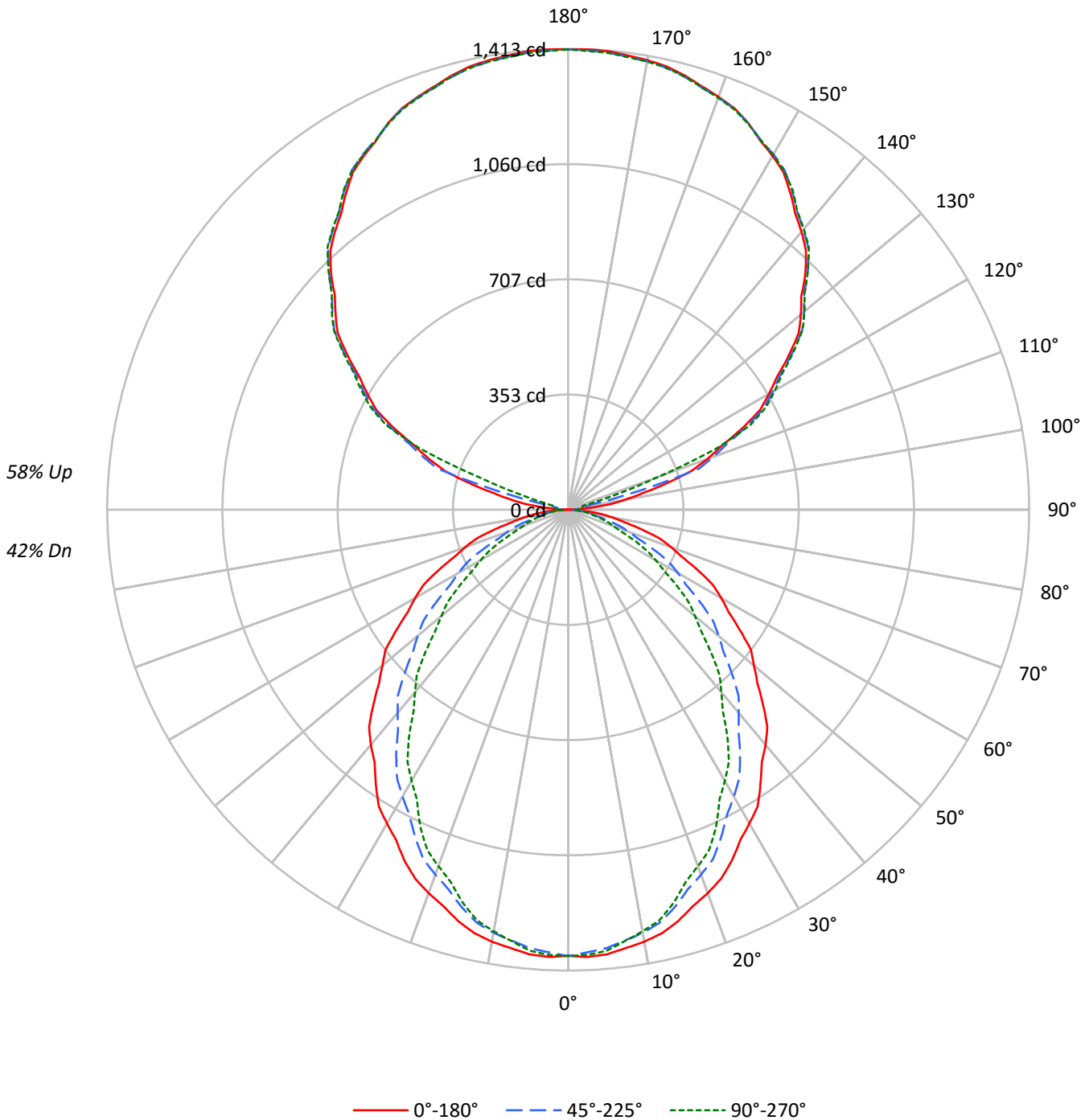
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 | 42 |
| 1 | 96 | 92 | 88 | 85 | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 42 | 36 |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 61 | 57 | 54 | 49 | 47 | 45 | 38 | 37 | 35 | 30 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 34 | 32 | 30 | 26 |
| 4 | 73 | 63 | 55 | 50 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 36 | 33 | 31 | 28 | 26 | 23 |
| 5 | 68 | 56 | 48 | 43 | 61 | 52 | 45 | 40 | 43 | 38 | 34 | 35 | 31 | 29 | 28 | 25 | 23 | 20 |
| 6 | 62 | 50 | 43 | 37 | 57 | 46 | 40 | 35 | 39 | 34 | 30 | 32 | 28 | 25 | 25 | 23 | 20 | 17 |
| 7 | 58 | 46 | 38 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 16 |
| 8 | 53 | 41 | 34 | 29 | 49 | 38 | 32 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 21 | 19 | 16 | 14 |
| 9 | 50 | 38 | 30 | 26 | 45 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10 | 46 | 35 | 28 | 23 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 23 | 19 | 16 | 18 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14727 | 14727 | 14727 |
| 5° | 14783 | 14579 | 14664 |
| 10° | 14700 | 14397 | 14348 |
| 15° | 14542 | 14060 | 13912 |
| 20° | 14325 | 13639 | 13321 |
| 25° | 14101 | 13166 | 12744 |
| 30° | 13806 | 12621 | 11931 |
| 35° | 13502 | 12073 | 11184 |
| 40° | 13222 | 11428 | 10260 |
| 45° | 12855 | 10794 | 9426 |
| 50° | 12450 | 10071 | 8492 |
| 55° | 12037 | 9246 | 7621 |
| 60° | 11657 | 8361 | 6665 |
| 65° | 11163 | 7404 | 5708 |
| 70° | 10546 | 6216 | 4611 |
| 75° | 9649 | 4891 | 4338 |
| 80° | 8598 | 4333 | 3986 |
| 85° | 7262 | 3841 | 3569 |



TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.5 | 1.7 |
| 10°-20° | 357.5 | 4.8 |
| 20°-30° | 514.7 | 7.0 |
| 30°-40° | 579.8 | 7.8 |
| 40°-50° | 554.7 | 7.5 |
| 50°-60° | 454.2 | 6.1 |
| 60°-70° | 306.5 | 4.1 |
| 70°-80° | 154.2 | 2.1 |
| 80°-90° | 44.7 | 0.6 |
| 90°-100° | 51.3 | 0.7 |
| 100°-110° | 244.5 | 3.3 |
| 110°-120° | 587.3 | 7.9 |
| 120°-130° | 747.9 | 10.1 |
| 130°-140° | 799.1 | 10.8 |
| 140°-150° | 747.2 | 10.1 |
| 150°-160° | 602.7 | 8.1 |
| 160°-170° | 389.0 | 5.3 |
| 170°-180° | 134.1 | 1.8 |
| 0°-30° | 1000.7 | 13.5 |
| 0°-40° | 1580.5 | 21.4 |
| 0°-60° | 2589.5 | 35.0 |
| 0°-90° | 3094.9 | 41.8 |
| 90°-120° | 883.1 | 11.9 |
| 90°-150° | 3177.3 | 42.9 |
| 90°-180° | 4303.0 | 58.2 |
| 0°-180° | 7397.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1368 | 1368 | 1368 | 1368 | 1368 | |
| 5° | 1368 | 1362 | 1349 | 1359 | 1357 | 130 |
| 15° | 1305 | 1292 | 1262 | 1256 | 1248 | 367 |
| 25° | 1187 | 1158 | 1109 | 1086 | 1073 | 546 |
| 35° | 1028 | 986 | 919 | 873 | 851 | 643 |
| 45° | 844 | 793 | 709 | 648 | 619 | 651 |
| 55° | 641 | 585 | 493 | 431 | 406 | 575 |
| 65° | 438 | 376 | 291 | 239 | 224 | 434 |
| 75° | 232 | 178 | 118 | 107 | 104 | 247 |
| 85° | 59 | 36 | 31 | 29 | 29 | 66 |
| 90° | 1 | 12 | 25 | 29 | 32 | 6 |
| 95° | 64 | 24 | 32 | 40 | 40 | 79 |
| 105° | 312 | 318 | 230 | 54 | 46 | 331 |
| 115° | 586 | 592 | 602 | 612 | 616 | 578 |
| 125° | 826 | 834 | 839 | 841 | 843 | 737 |
| 135° | 1028 | 1035 | 1039 | 1042 | 1039 | 791 |
| 145° | 1187 | 1194 | 1196 | 1198 | 1198 | 743 |
| 155° | 1307 | 1305 | 1306 | 1311 | 1305 | 602 |
| 165° | 1379 | 1376 | 1374 | 1382 | 1375 | 389 |
| 175° | 1411 | 1406 | 1407 | 1413 | 1406 | 134 |
| 180° | 1411 | 1411 | 1411 | 1411 | 1411 | |



TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 |
| 2.5° | 1372.6 | 1371.8 | 1371.1 | 1370.3 | 1369.5 | 1367.9 | 1365.5 | 1363.2 | 1360.8 | 1358.5 | 1360.6 |
| 5° | 1368.2 | 1366.9 | 1365.7 | 1364.5 | 1363.3 | 1361.1 | 1358.2 | 1355.3 | 1352.3 | 1349.3 | 1351.5 |
| 7.5° | 1355.5 | 1354.2 | 1352.9 | 1351.5 | 1350.2 | 1347.6 | 1343.8 | 1339.9 | 1336.1 | 1332.3 | 1333.5 |
| 10° | 1344.9 | 1343.2 | 1341.4 | 1339.7 | 1338.0 | 1334.9 | 1330.5 | 1326.0 | 1321.6 | 1317.2 | 1317.4 |
| 12.5° | 1329.8 | 1327.9 | 1326.0 | 1324.0 | 1322.1 | 1318.4 | 1313.0 | 1307.6 | 1302.2 | 1296.7 | 1296.6 |
| 15° | 1305.0 | 1302.3 | 1299.5 | 1296.8 | 1294.1 | 1289.3 | 1282.4 | 1275.5 | 1268.6 | 1261.7 | 1260.5 |
| 17.5° | 1273.7 | 1270.5 | 1267.4 | 1264.2 | 1261.0 | 1255.1 | 1246.3 | 1237.5 | 1228.7 | 1219.9 | 1217.3 |
| 20° | 1250.6 | 1246.7 | 1242.7 | 1238.8 | 1234.8 | 1228.2 | 1218.8 | 1209.4 | 1200.0 | 1190.7 | 1187.5 |
| 22.5° | 1224.8 | 1220.3 | 1215.8 | 1211.2 | 1206.7 | 1199.5 | 1189.4 | 1179.5 | 1169.5 | 1159.6 | 1155.6 |
| 25° | 1187.3 | 1181.2 | 1175.0 | 1168.8 | 1162.7 | 1153.9 | 1142.6 | 1131.2 | 1119.9 | 1108.6 | 1103.3 |
| 27.5° | 1141.8 | 1135.1 | 1128.2 | 1121.4 | 1114.6 | 1104.9 | 1092.3 | 1079.6 | 1067.0 | 1054.4 | 1047.2 |
| 30° | 1110.8 | 1103.3 | 1096.0 | 1088.6 | 1081.2 | 1070.6 | 1056.8 | 1042.9 | 1029.2 | 1015.4 | 1007.0 |
| 32.5° | 1079.7 | 1071.3 | 1062.9 | 1054.5 | 1046.2 | 1034.7 | 1020.1 | 1005.5 | 990.8 | 976.2 | 967.1 |
| 35° | 1027.5 | 1018.6 | 1009.7 | 1000.9 | 992.1 | 979.9 | 964.7 | 949.3 | 934.1 | 918.8 | 908.2 |
| 37.5° | 974.7 | 964.8 | 955.0 | 945.1 | 935.2 | 922.2 | 905.9 | 889.5 | 873.2 | 856.9 | 844.8 |
| 40° | 941.0 | 930.2 | 919.2 | 908.4 | 897.6 | 883.4 | 865.9 | 848.4 | 830.9 | 813.3 | 800.5 |
| 42.5° | 902.8 | 891.9 | 881.1 | 870.3 | 859.4 | 845.0 | 826.9 | 808.8 | 790.7 | 772.6 | 758.6 |
| 45° | 844.5 | 833.3 | 822.2 | 811.1 | 800.1 | 785.1 | 766.1 | 747.1 | 728.1 | 709.1 | 695.0 |
| 47.5° | 786.1 | 773.9 | 761.7 | 749.5 | 737.4 | 721.8 | 702.8 | 683.8 | 664.8 | 645.8 | 630.6 |
| 50° | 743.5 | 731.9 | 720.3 | 708.7 | 697.1 | 681.3 | 661.4 | 641.4 | 621.4 | 601.4 | 586.1 |
| 52.5° | 705.3 | 692.8 | 680.1 | 667.6 | 655.0 | 638.8 | 619.1 | 599.2 | 579.5 | 559.7 | 543.8 |
| 55° | 641.4 | 629.3 | 617.2 | 605.1 | 593.0 | 576.5 | 555.5 | 534.6 | 513.6 | 492.7 | 478.4 |
| 57.5° | 582.4 | 569.2 | 556.0 | 542.8 | 529.7 | 512.6 | 491.5 | 470.4 | 449.4 | 428.4 | 414.8 |
| 60° | 541.5 | 528.0 | 514.4 | 500.8 | 487.2 | 470.3 | 449.8 | 429.3 | 408.9 | 388.4 | 375.0 |
| 62.5° | 500.7 | 487.1 | 473.5 | 460.0 | 446.5 | 429.4 | 409.0 | 388.5 | 368.0 | 347.6 | 335.0 |
| 65° | 438.3 | 424.8 | 411.2 | 397.6 | 384.1 | 367.7 | 348.5 | 329.2 | 310.0 | 290.7 | 278.7 |
| 67.5° | 375.9 | 362.2 | 348.5 | 334.8 | 321.1 | 305.0 | 286.6 | 268.2 | 249.7 | 231.2 | 222.3 |
| 70° | 335.1 | 321.8 | 308.5 | 295.1 | 281.8 | 266.6 | 249.3 | 232.0 | 214.7 | 197.5 | 188.9 |
| 72.5° | 294.2 | 281.2 | 268.1 | 254.9 | 241.8 | 227.4 | 211.7 | 196.1 | 180.3 | 164.7 | 157.6 |
| 75° | 232.0 | 220.0 | 208.2 | 196.4 | 184.6 | 171.9 | 158.3 | 144.7 | 131.2 | 117.6 | 115.1 |
| 77.5° | 175.1 | 164.4 | 153.7 | 143.0 | 132.3 | 122.5 | 113.8 | 105.1 | 96.4 | 87.6 | 86.3 |
| 80° | 138.7 | 128.6 | 118.5 | 108.4 | 98.2 | 90.7 | 85.4 | 80.2 | 75.1 | 69.9 | 69.1 |
| 82.5° | 104.1 | 95.4 | 86.7 | 77.9 | 69.1 | 63.6 | 61.1 | 58.8 | 56.3 | 53.9 | 53.2 |
| 85° | 58.8 | 53.4 | 47.9 | 42.6 | 37.1 | 34.0 | 33.3 | 32.5 | 31.8 | 31.1 | 30.6 |
| 87.5° | 21.5 | 19.8 | 18.1 | 16.4 | 14.7 | 14.2 | 14.8 | 15.3 | 16.0 | 16.6 | 16.6 |
| 90° | 1.1 | 3.3 | 5.7 | 8.1 | 10.4 | 13.0 | 16.1 | 19.1 | 22.1 | 25.2 | 26.1 |
| 92.5° | 19.5 | 18.8 | 18.2 | 17.5 | 16.9 | 17.7 | 20.0 | 22.3 | 24.5 | 26.8 | 28.3 |
| 95° | 63.9 | 54.4 | 44.8 | 35.3 | 25.8 | 22.3 | 24.8 | 27.4 | 29.9 | 32.5 | 34.2 |
| 97.5° | 128.5 | 124.3 | 119.9 | 115.7 | 111.4 | 100.9 | 84.1 | 67.3 | 50.5 | 33.8 | 35.6 |
| 100° | 177.2 | 181.8 | 186.5 | 191.1 | 195.8 | 179.9 | 143.7 | 107.3 | 70.9 | 34.6 | 36.4 |
| 102.5° | 232.5 | 235.9 | 239.2 | 242.6 | 246.0 | 227.8 | 188.1 | 148.4 | 108.7 | 69.0 | 63.2 |
| 105° | 312.4 | 315.0 | 317.6 | 320.1 | 322.6 | 313.5 | 292.4 | 271.5 | 250.5 | 229.6 | 188.3 |
| 107.5° | 396.7 | 398.8 | 400.8 | 402.8 | 404.9 | 407.6 | 410.9 | 414.2 | 417.5 | 420.8 | 390.5 |
| 110° | 452.9 | 454.8 | 456.6 | 458.4 | 460.3 | 462.5 | 465.1 | 467.7 | 470.3 | 472.8 | 465.1 |



TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 506.5 | 508.3 | 509.9 | 511.6 | 513.2 | 515.4 | 518.0 | 520.5 | 523.1 | 525.6 | 525.8 |
| 115° | 586.0 | 587.4 | 588.8 | 590.2 | 591.6 | 593.4 | 595.4 | 597.5 | 599.7 | 601.8 | 604.1 |
| 117.5° | 663.0 | 664.7 | 666.4 | 668.1 | 669.8 | 671.2 | 672.3 | 673.4 | 674.5 | 675.6 | 677.4 |
| 120° | 710.8 | 712.9 | 714.9 | 717.1 | 719.2 | 720.6 | 721.2 | 721.9 | 722.7 | 723.3 | 725.2 |
| 122.5° | 759.5 | 761.2 | 762.9 | 764.6 | 766.3 | 767.6 | 768.5 | 769.4 | 770.3 | 771.2 | 772.5 |
| 125° | 826.1 | 827.9 | 829.8 | 831.7 | 833.6 | 834.9 | 835.8 | 836.8 | 837.7 | 838.7 | 839.1 |
| 127.5° | 890.6 | 892.5 | 894.4 | 896.3 | 898.1 | 899.6 | 900.7 | 901.9 | 902.9 | 904.1 | 904.8 |
| 130° | 930.9 | 932.8 | 934.7 | 936.5 | 938.4 | 939.8 | 940.7 | 941.7 | 942.6 | 943.5 | 944.4 |
| 132.5° | 969.5 | 971.3 | 973.2 | 975.1 | 977.0 | 978.3 | 979.0 | 979.7 | 980.5 | 981.2 | 982.2 |
| 135° | 1028.4 | 1029.8 | 1031.2 | 1032.6 | 1034.0 | 1035.2 | 1036.1 | 1037.1 | 1038.0 | 1038.9 | 1039.6 |
| 137.5° | 1078.7 | 1080.5 | 1082.3 | 1084.0 | 1085.8 | 1087.0 | 1087.4 | 1088.0 | 1088.5 | 1089.0 | 1090.1 |
| 140° | 1112.3 | 1113.7 | 1115.1 | 1116.5 | 1117.9 | 1118.9 | 1119.7 | 1120.3 | 1121.0 | 1121.7 | 1122.7 |
| 142.5° | 1143.3 | 1144.7 | 1146.1 | 1147.5 | 1148.9 | 1150.0 | 1150.6 | 1151.4 | 1152.0 | 1152.8 | 1153.5 |
| 145° | 1186.7 | 1188.4 | 1190.0 | 1191.6 | 1193.3 | 1194.3 | 1194.7 | 1195.2 | 1195.7 | 1196.1 | 1196.6 |
| 147.5° | 1227.6 | 1228.7 | 1229.7 | 1230.8 | 1231.9 | 1232.7 | 1233.1 | 1233.5 | 1234.0 | 1234.5 | 1235.0 |
| 150° | 1252.8 | 1253.4 | 1254.2 | 1254.8 | 1255.6 | 1256.1 | 1256.6 | 1257.0 | 1257.5 | 1258.0 | 1258.5 |
| 152.5° | 1275.4 | 1275.7 | 1276.0 | 1276.4 | 1276.7 | 1277.0 | 1277.3 | 1277.6 | 1277.8 | 1278.1 | 1279.0 |
| 155° | 1307.3 | 1306.8 | 1306.4 | 1305.9 | 1305.4 | 1305.3 | 1305.5 | 1305.8 | 1306.0 | 1306.2 | 1307.4 |
| 157.5° | 1332.0 | 1332.0 | 1332.0 | 1331.9 | 1331.8 | 1331.7 | 1331.5 | 1331.2 | 1331.0 | 1330.7 | 1332.1 |
| 160° | 1347.1 | 1346.9 | 1346.6 | 1346.4 | 1346.1 | 1346.0 | 1345.7 | 1345.5 | 1345.2 | 1345.0 | 1346.4 |
| 162.5° | 1361.4 | 1360.7 | 1360.2 | 1359.5 | 1358.9 | 1358.5 | 1358.3 | 1358.0 | 1357.8 | 1357.6 | 1359.2 |
| 165° | 1378.6 | 1377.9 | 1377.1 | 1376.5 | 1375.7 | 1375.3 | 1375.1 | 1374.8 | 1374.6 | 1374.4 | 1376.2 |
| 167.5° | 1392.0 | 1391.1 | 1390.1 | 1389.2 | 1388.2 | 1387.8 | 1387.8 | 1387.8 | 1387.8 | 1387.8 | 1389.7 |
| 170° | 1399.5 | 1398.6 | 1397.7 | 1396.8 | 1395.8 | 1395.3 | 1395.3 | 1395.3 | 1395.3 | 1395.3 | 1397.2 |
| 172.5° | 1404.6 | 1403.5 | 1402.3 | 1401.2 | 1400.1 | 1399.6 | 1399.8 | 1400.0 | 1400.2 | 1400.4 | 1402.2 |
| 175° | 1411.0 | 1409.9 | 1408.8 | 1407.5 | 1406.4 | 1405.9 | 1406.1 | 1406.4 | 1406.6 | 1406.9 | 1408.5 |
| 177.5° | 1412.8 | 1411.8 | 1410.9 | 1410.0 | 1409.0 | 1408.7 | 1408.8 | 1409.0 | 1409.2 | 1409.4 | 1410.9 |
| 180° | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 |



TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 | 1368.2 |
| 2.5° | 1362.8 | 1365.0 | 1367.1 | 1368.0 | 1367.6 | 1367.3 | 1366.8 | 1366.4 |
| 5° | 1353.8 | 1356.0 | 1358.2 | 1359.1 | 1358.6 | 1358.1 | 1357.6 | 1357.1 |
| 7.5° | 1334.7 | 1335.9 | 1337.2 | 1337.4 | 1336.5 | 1335.7 | 1334.9 | 1334.0 |
| 10° | 1317.7 | 1317.9 | 1318.2 | 1317.7 | 1316.4 | 1315.2 | 1313.9 | 1312.7 |
| 12.5° | 1296.4 | 1296.3 | 1296.2 | 1295.3 | 1294.0 | 1292.5 | 1291.1 | 1289.6 |
| 15° | 1259.2 | 1258.0 | 1256.8 | 1255.2 | 1253.5 | 1251.8 | 1250.1 | 1248.4 |
| 17.5° | 1214.7 | 1212.1 | 1209.5 | 1206.9 | 1204.4 | 1201.8 | 1199.2 | 1196.6 |
| 20° | 1184.2 | 1181.0 | 1177.9 | 1174.8 | 1171.8 | 1168.8 | 1165.9 | 1162.9 |
| 22.5° | 1151.6 | 1147.6 | 1143.6 | 1140.2 | 1137.5 | 1134.7 | 1132.0 | 1129.2 |
| 25° | 1098.2 | 1093.0 | 1087.9 | 1083.9 | 1081.2 | 1078.5 | 1075.8 | 1073.0 |
| 27.5° | 1040.0 | 1032.8 | 1025.6 | 1019.9 | 1015.8 | 1011.6 | 1007.5 | 1003.4 |
| 30° | 998.6 | 990.2 | 981.8 | 975.7 | 971.7 | 967.8 | 963.8 | 959.9 |
| 32.5° | 957.9 | 948.8 | 939.6 | 932.9 | 928.8 | 924.6 | 920.5 | 916.3 |
| 35° | 897.6 | 887.0 | 876.4 | 868.9 | 864.5 | 860.0 | 855.6 | 851.1 |
| 37.5° | 832.8 | 820.8 | 808.8 | 800.0 | 794.5 | 789.0 | 783.6 | 778.1 |
| 40° | 787.7 | 774.9 | 762.1 | 752.8 | 747.1 | 741.5 | 735.8 | 730.2 |
| 42.5° | 744.5 | 730.5 | 716.5 | 706.9 | 701.9 | 696.8 | 691.7 | 686.6 |
| 45° | 680.9 | 666.9 | 652.8 | 642.9 | 636.9 | 631.0 | 625.1 | 619.2 |
| 47.5° | 615.2 | 600.0 | 584.7 | 574.4 | 569.1 | 563.9 | 558.6 | 553.3 |
| 50° | 570.9 | 555.5 | 540.3 | 529.8 | 524.2 | 518.4 | 512.8 | 507.1 |
| 52.5° | 528.0 | 512.1 | 496.2 | 485.7 | 480.6 | 475.6 | 470.5 | 465.4 |
| 55° | 464.1 | 449.8 | 435.5 | 425.8 | 420.9 | 416.0 | 411.1 | 406.1 |
| 57.5° | 401.3 | 387.8 | 374.3 | 365.4 | 361.3 | 357.0 | 352.9 | 348.6 |
| 60° | 361.7 | 348.5 | 335.1 | 326.4 | 322.2 | 318.0 | 313.8 | 309.6 |
| 62.5° | 322.5 | 310.0 | 297.4 | 288.9 | 284.6 | 280.2 | 275.8 | 271.4 |
| 65° | 266.6 | 254.5 | 242.4 | 235.0 | 232.3 | 229.6 | 226.9 | 224.1 |
| 67.5° | 213.2 | 204.2 | 195.2 | 189.1 | 186.3 | 183.4 | 180.4 | 177.6 |
| 70° | 180.3 | 171.6 | 163.0 | 157.4 | 154.6 | 151.9 | 149.2 | 146.5 |
| 72.5° | 150.6 | 143.5 | 136.5 | 132.4 | 131.3 | 130.1 | 129.0 | 127.8 |
| 75° | 112.7 | 110.2 | 107.8 | 106.3 | 105.8 | 105.3 | 104.8 | 104.3 |
| 77.5° | 85.0 | 83.6 | 82.3 | 81.4 | 81.0 | 80.5 | 80.0 | 79.5 |
| 80° | 68.4 | 67.7 | 66.9 | 66.4 | 65.9 | 65.4 | 64.8 | 64.3 |
| 82.5° | 52.4 | 51.7 | 51.0 | 50.5 | 50.5 | 50.4 | 50.2 | 50.1 |
| 85° | 30.1 | 29.6 | 29.1 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 |
| 87.5° | 16.6 | 16.6 | 16.6 | 16.5 | 16.4 | 16.2 | 16.1 | 16.1 |
| 90° | 27.0 | 28.0 | 28.9 | 29.6 | 30.1 | 30.5 | 31.0 | 31.5 |
| 92.5° | 29.8 | 31.3 | 32.8 | 33.7 | 34.0 | 34.2 | 34.5 | 34.8 |
| 95° | 35.8 | 37.4 | 39.1 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 |
| 97.5° | 37.5 | 39.4 | 41.2 | 42.2 | 42.5 | 42.7 | 43.0 | 43.2 |
| 100° | 38.3 | 40.2 | 42.1 | 43.1 | 43.3 | 43.5 | 43.8 | 44.0 |
| 102.5° | 57.4 | 51.6 | 45.9 | 43.2 | 43.6 | 44.0 | 44.4 | 44.8 |
| 105° | 147.1 | 105.9 | 64.7 | 44.3 | 44.8 | 45.2 | 45.7 | 46.1 |
| 107.5° | 360.4 | 330.1 | 299.9 | 269.2 | 238.1 | 207.0 | 175.9 | 144.9 |
| 110° | 457.4 | 449.7 | 442.1 | 421.5 | 388.2 | 354.9 | 321.6 | 288.3 |



TEST NUMBER: P332464-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 525.9 | 526.0 | 526.2 | 522.8 | 515.7 | 508.7 | 501.7 | 494.6 |
| 115° | 606.4 | 608.7 | 611.1 | 612.7 | 613.6 | 614.6 | 615.5 | 616.4 |
| 117.5° | 679.3 | 681.1 | 683.0 | 684.0 | 684.2 | 684.4 | 684.6 | 684.8 |
| 120° | 727.1 | 729.0 | 730.8 | 731.7 | 731.7 | 731.7 | 731.7 | 731.7 |
| 122.5° | 773.8 | 775.1 | 776.4 | 777.1 | 777.3 | 777.5 | 777.7 | 777.9 |
| 125° | 839.6 | 840.1 | 840.5 | 841.0 | 841.5 | 842.0 | 842.4 | 842.9 |
| 127.5° | 905.6 | 906.3 | 907.1 | 907.2 | 906.8 | 906.3 | 905.8 | 905.3 |
| 130° | 945.3 | 946.3 | 947.2 | 947.5 | 947.0 | 946.6 | 946.1 | 945.6 |
| 132.5° | 983.1 | 984.1 | 985.0 | 985.1 | 984.5 | 983.8 | 983.2 | 982.5 |
| 135° | 1040.3 | 1041.0 | 1041.7 | 1041.7 | 1041.0 | 1040.3 | 1039.6 | 1038.9 |
| 137.5° | 1091.3 | 1092.3 | 1093.5 | 1093.8 | 1093.3 | 1092.9 | 1092.4 | 1091.9 |
| 140° | 1123.6 | 1124.5 | 1125.4 | 1125.7 | 1125.2 | 1124.7 | 1124.3 | 1123.8 |
| 142.5° | 1154.2 | 1155.0 | 1155.8 | 1155.8 | 1155.1 | 1154.5 | 1153.8 | 1153.2 |
| 145° | 1197.1 | 1197.5 | 1198.0 | 1198.2 | 1198.2 | 1198.2 | 1198.2 | 1198.2 |
| 147.5° | 1235.4 | 1235.9 | 1236.4 | 1236.1 | 1235.0 | 1234.0 | 1232.9 | 1231.8 |
| 150° | 1258.9 | 1259.4 | 1259.9 | 1259.7 | 1259.1 | 1258.3 | 1257.7 | 1256.9 |
| 152.5° | 1279.8 | 1280.7 | 1281.5 | 1281.4 | 1280.3 | 1279.2 | 1278.1 | 1277.1 |
| 155° | 1308.6 | 1309.7 | 1310.9 | 1310.8 | 1309.4 | 1308.0 | 1306.6 | 1305.2 |
| 157.5° | 1333.6 | 1335.0 | 1336.4 | 1336.1 | 1334.3 | 1332.5 | 1330.6 | 1328.9 |
| 160° | 1347.8 | 1349.2 | 1350.6 | 1350.5 | 1348.8 | 1347.2 | 1345.6 | 1343.9 |
| 162.5° | 1360.7 | 1362.4 | 1363.9 | 1364.0 | 1362.5 | 1361.1 | 1359.7 | 1358.2 |
| 165° | 1378.1 | 1380.0 | 1381.9 | 1381.9 | 1380.3 | 1378.7 | 1377.0 | 1375.4 |
| 167.5° | 1391.6 | 1393.3 | 1395.2 | 1395.2 | 1393.3 | 1391.6 | 1389.7 | 1387.8 |
| 170° | 1399.1 | 1400.9 | 1402.8 | 1402.8 | 1400.9 | 1399.1 | 1397.2 | 1395.3 |
| 172.5° | 1404.1 | 1406.0 | 1407.9 | 1407.7 | 1405.7 | 1403.6 | 1401.6 | 1399.5 |
| 175° | 1410.1 | 1411.8 | 1413.4 | 1413.2 | 1411.4 | 1409.6 | 1407.7 | 1405.8 |
| 177.5° | 1412.3 | 1413.9 | 1415.4 | 1415.2 | 1413.3 | 1411.4 | 1409.6 | 1407.7 |
| 180° | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 | 1411.0 |

(END OF REPORT)