

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: P332457-927

Luminaire Tested: **S123RDIW-S1000D755U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332457-927
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: S123RDIW-S1000D755U927-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5079.3 lumens
Efficiency: N/A
Efficacy: 94.8 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

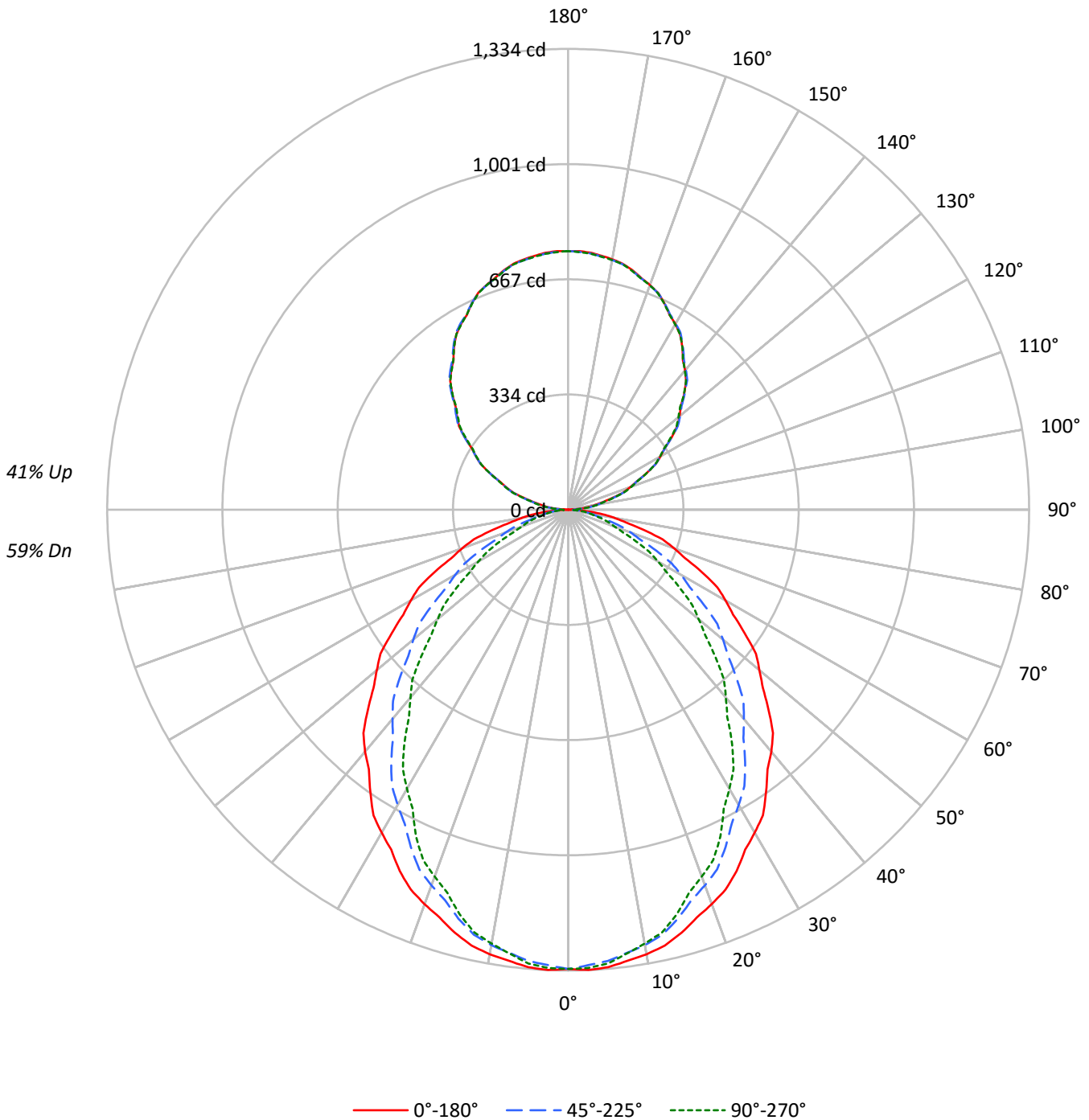
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332457-927

CATALOG NUMBER: S123RDIW-S1000D755U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332457-927

CATALOG NUMBER: S123RDIW-S1000D755U927-4F0-1E-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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 65 | 65 | 65 | 59 |
| 1 | 100 | 96 | 92 | 89 | 93 | 90 | 86 | 84 | 78 | 76 | 74 | 67 | 66 | 64 | 58 | 56 | 55 | 51 |
| 2 | 92 | 84 | 78 | 73 | 85 | 79 | 74 | 69 | 69 | 65 | 61 | 60 | 57 | 54 | 51 | 49 | 47 | 43 |
| 3 | 84 | 74 | 67 | 61 | 78 | 70 | 63 | 58 | 61 | 56 | 52 | 53 | 49 | 46 | 46 | 43 | 41 | 37 |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 50 | 55 | 49 | 45 | 48 | 43 | 40 | 41 | 38 | 35 | 32 |
| 5 | 71 | 59 | 51 | 45 | 66 | 56 | 48 | 43 | 49 | 43 | 39 | 43 | 38 | 35 | 37 | 34 | 31 | 28 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 38 | 44 | 39 | 34 | 39 | 34 | 31 | 34 | 30 | 27 | 25 |
| 7 | 60 | 48 | 40 | 35 | 56 | 46 | 38 | 33 | 40 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 24 | 22 |
| 8 | 56 | 44 | 36 | 31 | 52 | 42 | 34 | 30 | 37 | 31 | 27 | 33 | 28 | 25 | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 33 | 28 | 49 | 38 | 31 | 27 | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 23 | 20 | 18 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 28 | 24 | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

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 |



TEST NUMBER: P332457-927

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.8 | 2.5 |
| 10°-20° | 347.3 | 6.8 |
| 20°-30° | 500.2 | 9.8 |
| 30°-40° | 563.4 | 11.1 |
| 40°-50° | 539.0 | 10.6 |
| 50°-60° | 441.4 | 8.7 |
| 60°-70° | 297.8 | 5.9 |
| 70°-80° | 149.8 | 2.9 |
| 80°-90° | 41.8 | 0.8 |
| 90°-100° | 48.8 | 1.0 |
| 100°-110° | 145.9 | 2.9 |
| 110°-120° | 248.2 | 4.9 |
| 120°-130° | 326.5 | 6.4 |
| 130°-140° | 367.0 | 7.2 |
| 140°-150° | 360.7 | 7.1 |
| 150°-160° | 303.7 | 6.0 |
| 160°-170° | 202.2 | 4.0 |
| 170°-180° | 70.8 | 1.4 |
| 0°-30° | 972.3 | 19.1 |
| 0°-40° | 1535.7 | 30.2 |
| 0°-60° | 2516.0 | 49.5 |
| 0°-90° | 3005.5 | 59.2 |
| 90°-120° | 442.9 | 8.7 |
| 90°-150° | 1497.2 | 29.5 |
| 90°-180° | 2074.0 | 40.8 |
| 0°-180° | 5079.3 | 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 | 7 | 14 | 16 | 18 | 5 |
| 95° | 35 | 39 | 44 | 46 | 46 | 39 |
| 105° | 132 | 134 | 139 | 139 | 140 | 142 |
| 115° | 250 | 251 | 250 | 251 | 250 | 247 |
| 125° | 366 | 367 | 366 | 364 | 362 | 326 |
| 135° | 474 | 478 | 477 | 475 | 474 | 366 |
| 145° | 576 | 577 | 579 | 578 | 576 | 359 |
| 155° | 659 | 659 | 660 | 662 | 658 | 303 |
| 165° | 718 | 716 | 716 | 719 | 716 | 202 |
| 175° | 747 | 745 | 744 | 748 | 744 | 71 |
| 180° | 748 | 748 | 748 | 748 | 748 | |



TEST NUMBER: P332457-927

CATALOG NUMBER: S123RDIW-S1000D755U927-4F0-1E-UDD-F1

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 | 18.9 | 17.1 | 15.3 | 13.5 | 12.7 | 13.0 | 13.4 | 13.7 | 14.0 | 13.9 |
| 90° | 0.6 | 1.9 | 3.2 | 4.5 | 5.8 | 7.3 | 9.0 | 10.7 | 12.4 | 14.1 | 14.7 |
| 92.5° | 14.3 | 15.1 | 16.0 | 16.9 | 17.7 | 18.7 | 19.6 | 20.7 | 21.6 | 22.6 | 23.0 |
| 95° | 34.7 | 35.6 | 36.5 | 37.5 | 38.3 | 39.3 | 40.4 | 41.4 | 42.5 | 43.5 | 44.0 |
| 97.5° | 61.6 | 62.3 | 63.0 | 63.7 | 64.3 | 65.0 | 65.8 | 66.5 | 67.3 | 68.1 | 68.7 |
| 100° | 79.9 | 80.7 | 81.5 | 82.3 | 83.1 | 83.8 | 84.4 | 85.2 | 85.8 | 86.4 | 86.8 |
| 102.5° | 101.2 | 101.6 | 102.1 | 102.5 | 103.0 | 103.7 | 104.6 | 105.4 | 106.2 | 107.1 | 107.5 |
| 105° | 132.3 | 132.5 | 132.8 | 133.1 | 133.3 | 134.0 | 135.2 | 136.4 | 137.6 | 138.8 | 138.8 |
| 107.5° | 168.5 | 168.7 | 168.8 | 169.0 | 169.1 | 169.4 | 169.9 | 170.4 | 170.9 | 171.3 | 171.7 |
| 110° | 191.1 | 191.4 | 191.6 | 191.9 | 192.1 | 192.4 | 192.7 | 192.9 | 193.2 | 193.5 | 194.0 |



TEST NUMBER: P332457-927

CATALOG NUMBER: S123RDIW-S1000D755U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.6 | 214.8 | 214.9 | 215.1 | 215.2 | 215.3 | 215.4 | 215.5 | 215.5 | 215.6 | 216.2 |
| 115° | 249.9 | 250.3 | 250.6 | 251.0 | 251.4 | 251.5 | 251.3 | 251.0 | 250.7 | 250.5 | 250.6 |
| 117.5° | 285.4 | 285.7 | 285.9 | 286.2 | 286.5 | 286.5 | 286.1 | 285.7 | 285.4 | 285.0 | 285.0 |
| 120° | 307.5 | 308.3 | 309.1 | 309.9 | 310.7 | 310.7 | 310.1 | 309.4 | 308.8 | 308.1 | 308.0 |
| 122.5° | 330.6 | 331.1 | 331.7 | 332.3 | 332.9 | 333.0 | 332.6 | 332.3 | 332.0 | 331.6 | 331.3 |
| 125° | 365.8 | 366.1 | 366.5 | 366.9 | 367.3 | 367.3 | 367.1 | 366.9 | 366.5 | 366.3 | 365.8 |
| 127.5° | 398.2 | 399.0 | 399.9 | 400.7 | 401.6 | 401.8 | 401.6 | 401.2 | 400.9 | 400.7 | 399.9 |
| 130° | 419.9 | 420.9 | 421.9 | 422.9 | 424.0 | 424.4 | 424.0 | 423.6 | 423.2 | 422.8 | 422.2 |
| 132.5° | 441.5 | 442.5 | 443.5 | 444.6 | 445.7 | 446.0 | 445.8 | 445.4 | 445.1 | 444.9 | 444.3 |
| 135° | 474.5 | 475.3 | 476.1 | 476.9 | 477.6 | 478.0 | 477.8 | 477.7 | 477.6 | 477.4 | 476.9 |
| 137.5° | 505.1 | 505.7 | 506.4 | 507.1 | 507.7 | 508.2 | 508.5 | 508.9 | 509.2 | 509.5 | 509.0 |
| 140° | 526.2 | 526.9 | 527.6 | 528.2 | 528.9 | 529.3 | 529.4 | 529.5 | 529.7 | 529.8 | 529.7 |
| 142.5° | 545.6 | 546.2 | 546.8 | 547.5 | 548.1 | 548.6 | 548.8 | 549.1 | 549.3 | 549.5 | 549.4 |
| 145° | 575.7 | 575.9 | 576.2 | 576.4 | 576.7 | 577.0 | 577.4 | 577.8 | 578.2 | 578.6 | 578.5 |
| 147.5° | 602.0 | 602.5 | 602.9 | 603.4 | 603.9 | 604.3 | 604.7 | 605.0 | 605.4 | 605.8 | 605.8 |
| 150° | 620.4 | 620.6 | 620.8 | 621.2 | 621.4 | 621.6 | 621.9 | 622.2 | 622.4 | 622.7 | 622.7 |
| 152.5° | 635.4 | 635.7 | 636.1 | 636.5 | 636.8 | 637.1 | 637.2 | 637.4 | 637.5 | 637.7 | 637.9 |
| 155° | 659.2 | 659.2 | 659.2 | 659.2 | 659.2 | 659.2 | 659.3 | 659.5 | 659.6 | 659.7 | 660.3 |
| 157.5° | 679.4 | 679.2 | 679.1 | 678.9 | 678.7 | 678.7 | 678.8 | 678.9 | 679.1 | 679.1 | 679.7 |
| 160° | 692.1 | 691.8 | 691.6 | 691.3 | 691.0 | 690.9 | 690.9 | 690.9 | 690.9 | 690.9 | 691.6 |
| 162.5° | 703.4 | 703.0 | 702.6 | 702.3 | 701.9 | 701.8 | 701.9 | 702.0 | 702.1 | 702.2 | 702.8 |
| 165° | 718.0 | 717.6 | 717.2 | 716.8 | 716.4 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.9 |
| 167.5° | 729.6 | 729.0 | 728.6 | 728.0 | 727.5 | 727.3 | 727.4 | 727.5 | 727.6 | 727.7 | 728.5 |
| 170° | 736.2 | 735.6 | 735.1 | 734.6 | 734.0 | 733.8 | 733.8 | 733.8 | 733.8 | 733.8 | 734.7 |
| 172.5° | 741.3 | 740.8 | 740.3 | 739.7 | 739.3 | 738.9 | 738.9 | 738.9 | 738.9 | 738.9 | 739.8 |
| 175° | 746.7 | 746.2 | 745.7 | 745.2 | 744.7 | 744.4 | 744.4 | 744.4 | 744.4 | 744.4 | 745.2 |
| 177.5° | 749.0 | 748.5 | 748.1 | 747.7 | 747.3 | 747.1 | 747.1 | 747.1 | 747.1 | 747.1 | 747.7 |
| 180° | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 |



TEST NUMBER: P332457-927

CATALOG NUMBER: S123RDIW-S1000D755U927-4F0-1E-UDD-F1

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° | 13.9 | 13.8 | 13.7 | 13.5 | 13.5 | 13.3 | 13.2 | 13.0 |
| 90° | 15.1 | 15.7 | 16.2 | 16.6 | 16.9 | 17.1 | 17.3 | 17.7 |
| 92.5° | 23.4 | 23.8 | 24.2 | 24.4 | 24.2 | 24.1 | 23.9 | 23.8 |
| 95° | 44.5 | 45.1 | 45.6 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 97.5° | 69.3 | 69.9 | 70.5 | 70.7 | 70.7 | 70.7 | 70.6 | 70.6 |
| 100° | 87.2 | 87.6 | 88.0 | 88.3 | 88.6 | 88.9 | 89.1 | 89.4 |
| 102.5° | 107.9 | 108.3 | 108.7 | 108.8 | 108.8 | 108.8 | 108.7 | 108.7 |
| 105° | 138.8 | 138.8 | 138.8 | 138.9 | 139.2 | 139.4 | 139.7 | 140.0 |
| 107.5° | 172.1 | 172.6 | 173.0 | 173.2 | 173.0 | 172.9 | 172.7 | 172.5 |
| 110° | 194.5 | 195.0 | 195.5 | 195.7 | 195.4 | 195.1 | 194.9 | 194.6 |



TEST NUMBER: P332457-927

CATALOG NUMBER: S123RDIW-S1000D755U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 216.8 | 217.5 | 218.1 | 218.3 | 218.3 | 218.2 | 218.2 | 218.2 |
| 115° | 250.7 | 250.9 | 251.0 | 251.0 | 250.9 | 250.7 | 250.6 | 250.5 |
| 117.5° | 285.0 | 284.9 | 284.9 | 284.8 | 284.4 | 284.0 | 283.7 | 283.3 |
| 120° | 307.8 | 307.7 | 307.6 | 307.4 | 307.1 | 306.9 | 306.6 | 306.3 |
| 122.5° | 331.0 | 330.6 | 330.3 | 329.9 | 329.5 | 329.2 | 328.8 | 328.4 |
| 125° | 365.3 | 364.7 | 364.2 | 363.7 | 363.2 | 362.7 | 362.1 | 361.6 |
| 127.5° | 399.2 | 398.5 | 397.8 | 397.0 | 396.5 | 395.9 | 395.3 | 394.7 |
| 130° | 421.8 | 421.2 | 420.6 | 419.9 | 419.1 | 418.1 | 417.2 | 416.3 |
| 132.5° | 443.6 | 443.0 | 442.4 | 441.7 | 441.0 | 440.3 | 439.6 | 438.9 |
| 135° | 476.4 | 475.9 | 475.4 | 475.0 | 474.7 | 474.4 | 474.2 | 473.9 |
| 137.5° | 508.4 | 507.9 | 507.4 | 506.8 | 506.4 | 505.8 | 505.3 | 504.9 |
| 140° | 529.5 | 529.4 | 529.3 | 528.7 | 527.8 | 526.9 | 526.0 | 525.1 |
| 142.5° | 549.3 | 549.1 | 549.0 | 548.6 | 547.9 | 547.2 | 546.4 | 545.7 |
| 145° | 578.3 | 578.2 | 578.1 | 577.7 | 577.2 | 576.7 | 576.2 | 575.7 |
| 147.5° | 605.8 | 605.8 | 605.8 | 605.4 | 604.6 | 603.8 | 603.0 | 602.2 |
| 150° | 622.7 | 622.7 | 622.7 | 622.3 | 621.5 | 620.8 | 620.0 | 619.2 |
| 152.5° | 638.2 | 638.3 | 638.6 | 638.3 | 637.6 | 637.0 | 636.3 | 635.6 |
| 155° | 660.8 | 661.3 | 661.8 | 661.6 | 660.7 | 659.8 | 658.9 | 658.0 |
| 157.5° | 680.2 | 680.8 | 681.4 | 681.2 | 680.5 | 679.8 | 679.1 | 678.3 |
| 160° | 692.2 | 692.8 | 693.5 | 693.6 | 693.1 | 692.5 | 692.0 | 691.5 |
| 162.5° | 703.5 | 704.2 | 704.8 | 704.7 | 703.9 | 703.1 | 702.2 | 701.3 |
| 165° | 717.7 | 718.5 | 719.3 | 719.2 | 718.4 | 717.4 | 716.5 | 715.6 |
| 167.5° | 729.3 | 730.2 | 730.9 | 730.9 | 730.2 | 729.3 | 728.5 | 727.7 |
| 170° | 735.6 | 736.6 | 737.4 | 737.4 | 736.6 | 735.6 | 734.7 | 733.8 |
| 172.5° | 740.6 | 741.4 | 742.2 | 742.2 | 741.2 | 740.4 | 739.4 | 738.6 |
| 175° | 746.0 | 746.7 | 747.5 | 747.5 | 746.6 | 745.6 | 744.7 | 743.8 |
| 177.5° | 748.4 | 749.0 | 749.6 | 749.6 | 748.8 | 748.1 | 747.3 | 746.6 |
| 180° | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 | 748.5 |

(END OF REPORT)