

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: P332448-930

Luminaire Tested: **S123RDIW-S775D1535U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332448-930
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-S775D1535U930-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7385.5 lumens
Efficiency: N/A
Efficacy: 108.5 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: Semi-Indirect

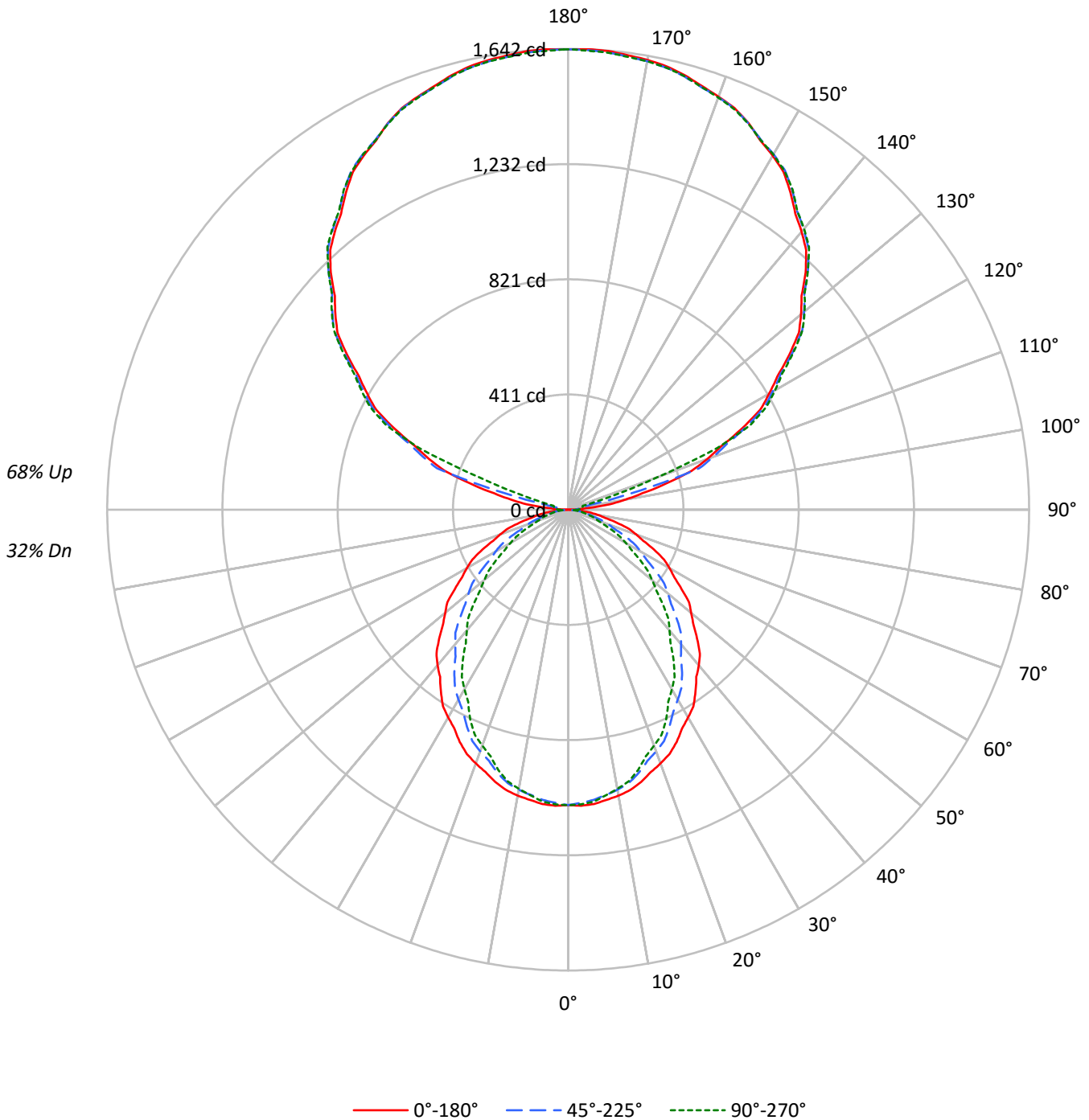
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 32 |
| 1 | 94 | 90 | 86 | 83 | 85 | 81 | 78 | 75 | 65 | 62 | 61 | 49 | 48 | 47 | 35 | 35 | 34 | 28 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 57 | 70 | 63 | 57 | 52 | 50 | 46 | 43 | 39 | 36 | 34 | 28 | 26 | 25 | 20 |
| 4 | 72 | 61 | 54 | 48 | 64 | 56 | 49 | 44 | 45 | 40 | 36 | 35 | 31 | 29 | 25 | 23 | 22 | 17 |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 | 15 |
| 6 | 61 | 49 | 41 | 36 | 54 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 25 | 22 | 21 | 18 | 17 | 13 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 33 | 28 | 24 | 26 | 22 | 19 | 19 | 17 | 15 | 12 |
| 8 | 52 | 40 | 33 | 27 | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 11 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 22 | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11330 | 11330 | 11330 |
| 5° | 11373 | 11217 | 11282 |
| 10° | 11309 | 11075 | 11038 |
| 15° | 11188 | 10816 | 10702 |
| 20° | 11021 | 10493 | 10247 |
| 25° | 10849 | 10128 | 9804 |
| 30° | 10621 | 9708 | 9178 |
| 35° | 10387 | 9289 | 8604 |
| 40° | 10172 | 8792 | 7893 |
| 45° | 9889 | 8304 | 7252 |
| 50° | 9577 | 7748 | 6532 |
| 55° | 9259 | 7112 | 5863 |
| 60° | 8968 | 6433 | 5126 |
| 65° | 8588 | 5695 | 4391 |
| 70° | 8113 | 4784 | 3547 |
| 75° | 7419 | 3764 | 3335 |
| 80° | 6614 | 3335 | 3068 |
| 85° | 5582 | 2952 | 2742 |



TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.8 | 1.3 |
| 10°-20° | 275.0 | 3.7 |
| 20°-30° | 396.0 | 5.4 |
| 30°-40° | 446.1 | 6.0 |
| 40°-50° | 426.7 | 5.8 |
| 50°-60° | 349.5 | 4.7 |
| 60°-70° | 235.8 | 3.2 |
| 70°-80° | 118.6 | 1.6 |
| 80°-90° | 36.0 | 0.5 |
| 90°-100° | 59.6 | 0.8 |
| 100°-110° | 284.3 | 3.8 |
| 110°-120° | 682.8 | 9.2 |
| 120°-130° | 869.5 | 11.8 |
| 130°-140° | 929.1 | 12.6 |
| 140°-150° | 868.8 | 11.8 |
| 150°-160° | 700.8 | 9.5 |
| 160°-170° | 452.3 | 6.1 |
| 170°-180° | 155.9 | 2.1 |
| 0°-30° | 769.9 | 10.4 |
| 0°-40° | 1215.9 | 16.5 |
| 0°-60° | 1992.1 | 27.0 |
| 0°-90° | 2382.5 | 32.3 |
| 90°-120° | 1026.8 | 13.9 |
| 90°-150° | 3694.1 | 50.0 |
| 90°-180° | 5003.0 | 67.7 |
| 0°-180° | 7385.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1053 | 1053 | 1053 | 1053 | 1053 | |
| 5° | 1053 | 1048 | 1038 | 1045 | 1044 | 100 |
| 15° | 1004 | 994 | 971 | 966 | 960 | 283 |
| 25° | 914 | 891 | 853 | 835 | 826 | 420 |
| 35° | 790 | 759 | 707 | 671 | 655 | 495 |
| 45° | 650 | 610 | 546 | 498 | 476 | 501 |
| 55° | 493 | 450 | 379 | 331 | 312 | 442 |
| 65° | 337 | 289 | 224 | 184 | 172 | 334 |
| 75° | 178 | 137 | 90 | 82 | 80 | 190 |
| 85° | 45 | 27 | 24 | 22 | 22 | 51 |
| 90° | 1 | 14 | 29 | 34 | 36 | 6 |
| 95° | 74 | 28 | 38 | 46 | 46 | 92 |
| 105° | 363 | 370 | 267 | 63 | 54 | 385 |
| 115° | 681 | 689 | 700 | 711 | 717 | 672 |
| 125° | 960 | 970 | 975 | 978 | 980 | 857 |
| 135° | 1196 | 1203 | 1208 | 1211 | 1208 | 920 |
| 145° | 1380 | 1388 | 1391 | 1393 | 1393 | 863 |
| 155° | 1520 | 1518 | 1519 | 1524 | 1518 | 700 |
| 165° | 1603 | 1599 | 1598 | 1607 | 1599 | 453 |
| 175° | 1640 | 1635 | 1636 | 1643 | 1634 | 156 |
| 180° | 1640 | 1640 | 1640 | 1640 | 1640 | |



TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 |
| 2.5° | 1056.0 | 1055.4 | 1054.8 | 1054.2 | 1053.6 | 1052.4 | 1050.5 | 1048.7 | 1046.9 | 1045.1 | 1046.8 |
| 5° | 1052.6 | 1051.7 | 1050.7 | 1049.8 | 1048.8 | 1047.2 | 1044.9 | 1042.6 | 1040.3 | 1038.1 | 1039.8 |
| 7.5° | 1042.8 | 1041.9 | 1040.8 | 1039.8 | 1038.8 | 1036.7 | 1033.8 | 1030.9 | 1027.9 | 1024.9 | 1025.9 |
| 10° | 1034.7 | 1033.3 | 1032.0 | 1030.7 | 1029.3 | 1027.0 | 1023.5 | 1020.2 | 1016.8 | 1013.3 | 1013.5 |
| 12.5° | 1023.0 | 1021.6 | 1020.1 | 1018.6 | 1017.2 | 1014.3 | 1010.2 | 1006.0 | 1001.8 | 997.6 | 997.5 |
| 15° | 1004.0 | 1001.8 | 999.7 | 997.7 | 995.6 | 991.9 | 986.6 | 981.3 | 975.9 | 970.6 | 969.7 |
| 17.5° | 979.8 | 977.5 | 975.0 | 972.6 | 970.1 | 965.6 | 958.8 | 952.0 | 945.3 | 938.6 | 936.5 |
| 20° | 962.1 | 959.0 | 956.0 | 953.0 | 950.0 | 944.9 | 937.6 | 930.4 | 923.2 | 916.0 | 913.5 |
| 22.5° | 942.3 | 938.8 | 935.3 | 931.8 | 928.3 | 922.8 | 915.1 | 907.4 | 899.8 | 892.1 | 889.0 |
| 25° | 913.5 | 908.7 | 903.9 | 899.2 | 894.5 | 887.7 | 879.0 | 870.3 | 861.5 | 852.8 | 848.8 |
| 27.5° | 878.4 | 873.2 | 868.0 | 862.7 | 857.5 | 850.0 | 840.3 | 830.6 | 820.8 | 811.1 | 805.6 |
| 30° | 854.5 | 848.8 | 843.2 | 837.5 | 831.8 | 823.6 | 813.0 | 802.3 | 791.7 | 781.1 | 774.7 |
| 32.5° | 830.6 | 824.2 | 817.7 | 811.3 | 804.9 | 796.0 | 784.7 | 773.6 | 762.3 | 751.1 | 744.0 |
| 35° | 790.5 | 783.7 | 776.8 | 770.1 | 763.2 | 753.9 | 742.2 | 730.3 | 718.6 | 706.9 | 698.7 |
| 37.5° | 749.9 | 742.2 | 734.7 | 727.1 | 719.5 | 709.5 | 696.9 | 684.4 | 671.8 | 659.3 | 650.0 |
| 40° | 723.9 | 715.6 | 707.2 | 698.9 | 690.6 | 679.6 | 666.2 | 652.7 | 639.2 | 625.7 | 615.9 |
| 42.5° | 694.6 | 686.2 | 677.8 | 669.5 | 661.2 | 650.0 | 636.1 | 622.2 | 608.3 | 594.4 | 583.6 |
| 45° | 649.6 | 641.2 | 632.6 | 624.0 | 615.5 | 604.0 | 589.3 | 574.7 | 560.1 | 545.5 | 534.7 |
| 47.5° | 604.8 | 595.4 | 586.0 | 576.7 | 567.3 | 555.3 | 540.7 | 526.0 | 511.4 | 496.8 | 485.1 |
| 50° | 571.9 | 563.0 | 554.2 | 545.2 | 536.3 | 524.2 | 508.8 | 493.4 | 478.1 | 462.7 | 450.9 |
| 52.5° | 542.6 | 533.0 | 523.3 | 513.6 | 503.9 | 491.5 | 476.2 | 461.1 | 445.8 | 430.6 | 418.4 |
| 55° | 493.4 | 484.1 | 474.8 | 465.5 | 456.2 | 443.5 | 427.4 | 411.3 | 395.2 | 379.0 | 368.0 |
| 57.5° | 448.0 | 437.9 | 427.8 | 417.6 | 407.5 | 394.4 | 378.1 | 361.9 | 345.7 | 329.5 | 319.1 |
| 60° | 416.6 | 406.2 | 395.7 | 385.3 | 374.9 | 361.7 | 346.0 | 330.3 | 314.5 | 298.8 | 288.5 |
| 62.5° | 385.1 | 374.7 | 364.3 | 353.8 | 343.5 | 330.4 | 314.6 | 298.9 | 283.2 | 267.3 | 257.7 |
| 65° | 337.2 | 326.8 | 316.3 | 305.9 | 295.5 | 282.8 | 268.1 | 253.2 | 238.5 | 223.6 | 214.3 |
| 67.5° | 289.3 | 278.7 | 268.2 | 257.6 | 247.0 | 234.6 | 220.5 | 206.3 | 192.1 | 177.9 | 171.0 |
| 70° | 257.8 | 247.6 | 237.3 | 227.1 | 216.9 | 205.0 | 191.8 | 178.6 | 165.3 | 152.0 | 145.3 |
| 72.5° | 226.4 | 216.3 | 206.2 | 196.1 | 186.1 | 175.0 | 162.9 | 150.8 | 138.8 | 126.7 | 121.2 |
| 75° | 178.4 | 169.3 | 160.2 | 151.1 | 142.0 | 132.2 | 121.8 | 111.4 | 100.9 | 90.5 | 88.6 |
| 77.5° | 134.7 | 126.5 | 118.2 | 110.0 | 101.7 | 94.3 | 87.6 | 80.9 | 74.2 | 67.4 | 66.4 |
| 80° | 106.7 | 98.9 | 91.2 | 83.4 | 75.6 | 69.7 | 65.7 | 61.7 | 57.8 | 53.8 | 53.2 |
| 82.5° | 80.1 | 73.4 | 66.6 | 59.9 | 53.2 | 48.9 | 47.0 | 45.2 | 43.4 | 41.5 | 40.9 |
| 85° | 45.2 | 41.1 | 36.9 | 32.7 | 28.5 | 26.2 | 25.6 | 25.0 | 24.5 | 23.9 | 23.6 |
| 87.5° | 16.6 | 15.5 | 14.3 | 13.3 | 12.1 | 11.9 | 12.6 | 13.3 | 14.0 | 14.8 | 14.8 |
| 90° | 1.2 | 3.9 | 6.6 | 9.4 | 12.1 | 15.2 | 18.7 | 22.2 | 25.8 | 29.3 | 30.3 |
| 92.5° | 22.7 | 21.9 | 21.1 | 20.4 | 19.6 | 20.5 | 23.2 | 25.9 | 28.5 | 31.2 | 32.9 |
| 95° | 74.4 | 63.3 | 52.2 | 41.0 | 29.9 | 25.8 | 28.9 | 31.8 | 34.8 | 37.7 | 39.7 |
| 97.5° | 149.4 | 144.5 | 139.5 | 134.4 | 129.5 | 117.2 | 97.8 | 78.3 | 58.8 | 39.2 | 41.4 |
| 100° | 206.0 | 211.4 | 216.8 | 222.3 | 227.6 | 209.2 | 167.0 | 124.7 | 82.5 | 40.2 | 42.4 |
| 102.5° | 270.4 | 274.3 | 278.2 | 282.0 | 285.9 | 264.8 | 218.7 | 172.5 | 126.4 | 80.2 | 73.5 |
| 105° | 363.2 | 366.2 | 369.2 | 372.2 | 375.1 | 364.4 | 340.1 | 315.7 | 291.3 | 266.9 | 219.0 |
| 107.5° | 461.2 | 463.6 | 465.9 | 468.4 | 470.8 | 473.9 | 477.7 | 481.6 | 485.4 | 489.3 | 454.1 |
| 110° | 526.5 | 528.7 | 530.8 | 533.0 | 535.2 | 537.8 | 540.8 | 543.7 | 546.7 | 549.7 | 540.8 |



TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 589.0 | 590.9 | 592.9 | 594.8 | 596.7 | 599.2 | 602.2 | 605.2 | 608.1 | 611.1 | 611.3 |
| 115° | 681.3 | 683.0 | 684.6 | 686.2 | 687.9 | 689.9 | 692.4 | 694.7 | 697.2 | 699.6 | 702.3 |
| 117.5° | 770.8 | 772.8 | 774.8 | 776.8 | 778.9 | 780.5 | 781.7 | 782.9 | 784.2 | 785.5 | 787.6 |
| 120° | 826.4 | 828.8 | 831.3 | 833.7 | 836.2 | 837.8 | 838.5 | 839.4 | 840.2 | 841.0 | 843.2 |
| 122.5° | 883.0 | 884.9 | 887.0 | 888.9 | 891.0 | 892.5 | 893.5 | 894.5 | 895.5 | 896.6 | 898.1 |
| 125° | 960.4 | 962.6 | 964.8 | 966.9 | 969.1 | 970.8 | 971.8 | 972.9 | 974.0 | 975.1 | 975.7 |
| 127.5° | 1035.5 | 1037.7 | 1039.9 | 1042.0 | 1044.2 | 1045.9 | 1047.3 | 1048.6 | 1049.9 | 1051.2 | 1052.0 |
| 130° | 1082.3 | 1084.5 | 1086.7 | 1088.8 | 1091.0 | 1092.7 | 1093.7 | 1094.8 | 1095.9 | 1097.0 | 1098.0 |
| 132.5° | 1127.2 | 1129.4 | 1131.6 | 1133.7 | 1135.9 | 1137.4 | 1138.2 | 1139.1 | 1140.0 | 1140.8 | 1141.9 |
| 135° | 1195.7 | 1197.3 | 1199.0 | 1200.6 | 1202.2 | 1203.5 | 1204.6 | 1205.7 | 1206.8 | 1207.9 | 1208.7 |
| 137.5° | 1254.2 | 1256.3 | 1258.3 | 1260.4 | 1262.4 | 1263.8 | 1264.4 | 1264.9 | 1265.6 | 1266.2 | 1267.5 |
| 140° | 1293.2 | 1294.9 | 1296.5 | 1298.1 | 1299.8 | 1300.9 | 1301.7 | 1302.5 | 1303.3 | 1304.2 | 1305.3 |
| 142.5° | 1329.3 | 1330.9 | 1332.5 | 1334.2 | 1335.8 | 1337.0 | 1337.8 | 1338.6 | 1339.5 | 1340.3 | 1341.1 |
| 145° | 1379.7 | 1381.6 | 1383.6 | 1385.4 | 1387.3 | 1388.5 | 1389.1 | 1389.6 | 1390.2 | 1390.7 | 1391.2 |
| 147.5° | 1427.3 | 1428.6 | 1429.8 | 1431.0 | 1432.2 | 1433.1 | 1433.7 | 1434.3 | 1434.8 | 1435.3 | 1435.9 |
| 150° | 1456.5 | 1457.3 | 1458.2 | 1459.0 | 1459.8 | 1460.4 | 1461.0 | 1461.6 | 1462.1 | 1462.6 | 1463.1 |
| 152.5° | 1482.9 | 1483.3 | 1483.6 | 1484.0 | 1484.4 | 1484.7 | 1485.1 | 1485.4 | 1485.7 | 1486.0 | 1487.0 |
| 155° | 1519.9 | 1519.4 | 1518.8 | 1518.3 | 1517.8 | 1517.6 | 1517.9 | 1518.2 | 1518.4 | 1518.7 | 1520.0 |
| 157.5° | 1548.7 | 1548.7 | 1548.6 | 1548.5 | 1548.5 | 1548.3 | 1548.0 | 1547.8 | 1547.5 | 1547.2 | 1548.8 |
| 160° | 1566.3 | 1565.9 | 1565.7 | 1565.5 | 1565.1 | 1564.9 | 1564.6 | 1564.3 | 1564.1 | 1563.8 | 1565.5 |
| 162.5° | 1582.8 | 1582.1 | 1581.4 | 1580.7 | 1580.0 | 1579.5 | 1579.2 | 1579.0 | 1578.7 | 1578.4 | 1580.3 |
| 165° | 1602.8 | 1602.0 | 1601.2 | 1600.4 | 1599.5 | 1599.0 | 1598.7 | 1598.5 | 1598.2 | 1597.9 | 1600.1 |
| 167.5° | 1618.4 | 1617.3 | 1616.2 | 1615.2 | 1614.0 | 1613.6 | 1613.6 | 1613.6 | 1613.6 | 1613.6 | 1615.7 |
| 170° | 1627.2 | 1626.1 | 1625.0 | 1623.9 | 1622.9 | 1622.3 | 1622.3 | 1622.3 | 1622.3 | 1622.3 | 1624.5 |
| 172.5° | 1633.0 | 1631.7 | 1630.4 | 1629.1 | 1627.8 | 1627.3 | 1627.5 | 1627.7 | 1627.9 | 1628.2 | 1630.4 |
| 175° | 1640.5 | 1639.2 | 1637.9 | 1636.6 | 1635.2 | 1634.6 | 1634.9 | 1635.2 | 1635.4 | 1635.7 | 1637.6 |
| 177.5° | 1642.5 | 1641.4 | 1640.4 | 1639.3 | 1638.2 | 1637.8 | 1638.0 | 1638.2 | 1638.4 | 1638.7 | 1640.4 |
| 180° | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 |



TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 | 1052.6 |
| 2.5° | 1048.4 | 1050.1 | 1051.7 | 1052.5 | 1052.1 | 1051.8 | 1051.5 | 1051.2 |
| 5° | 1041.5 | 1043.2 | 1044.9 | 1045.5 | 1045.2 | 1044.8 | 1044.4 | 1044.1 |
| 7.5° | 1026.9 | 1027.8 | 1028.7 | 1028.9 | 1028.3 | 1027.6 | 1027.0 | 1026.3 |
| 10° | 1013.7 | 1013.9 | 1014.1 | 1013.7 | 1012.8 | 1011.8 | 1010.9 | 1009.9 |
| 12.5° | 997.4 | 997.3 | 997.2 | 996.5 | 995.5 | 994.3 | 993.3 | 992.1 |
| 15° | 968.7 | 967.8 | 966.9 | 965.7 | 964.4 | 963.0 | 961.7 | 960.4 |
| 17.5° | 934.5 | 932.5 | 930.5 | 928.5 | 926.5 | 924.5 | 922.6 | 920.6 |
| 20° | 911.1 | 908.6 | 906.1 | 903.8 | 901.5 | 899.2 | 896.9 | 894.6 |
| 22.5° | 886.0 | 882.9 | 879.8 | 877.2 | 875.1 | 872.9 | 870.8 | 868.7 |
| 25° | 844.9 | 840.9 | 836.9 | 833.9 | 831.8 | 829.6 | 827.6 | 825.5 |
| 27.5° | 800.1 | 794.6 | 789.0 | 784.6 | 781.5 | 778.3 | 775.1 | 771.9 |
| 30° | 768.3 | 761.7 | 755.3 | 750.6 | 747.5 | 744.5 | 741.4 | 738.4 |
| 32.5° | 736.9 | 729.9 | 722.8 | 717.7 | 714.5 | 711.3 | 708.2 | 705.0 |
| 35° | 690.6 | 682.4 | 674.3 | 668.5 | 665.0 | 661.6 | 658.2 | 654.8 |
| 37.5° | 640.7 | 631.4 | 622.2 | 615.5 | 611.2 | 607.0 | 602.8 | 598.6 |
| 40° | 606.0 | 596.1 | 586.3 | 579.2 | 574.8 | 570.5 | 566.1 | 561.7 |
| 42.5° | 572.7 | 562.0 | 551.2 | 543.9 | 540.0 | 536.1 | 532.1 | 528.2 |
| 45° | 523.9 | 513.1 | 502.2 | 494.6 | 490.0 | 485.4 | 480.9 | 476.4 |
| 47.5° | 473.3 | 461.5 | 449.8 | 441.9 | 437.8 | 433.7 | 429.7 | 425.7 |
| 50° | 439.2 | 427.4 | 415.6 | 407.6 | 403.2 | 398.8 | 394.5 | 390.1 |
| 52.5° | 406.2 | 394.0 | 381.7 | 373.7 | 369.7 | 365.8 | 361.9 | 358.0 |
| 55° | 357.0 | 346.0 | 335.0 | 327.6 | 323.8 | 320.0 | 316.3 | 312.4 |
| 57.5° | 308.8 | 298.3 | 288.0 | 281.1 | 277.9 | 274.7 | 271.4 | 268.2 |
| 60° | 278.3 | 268.1 | 257.8 | 251.1 | 247.9 | 244.6 | 241.4 | 238.1 |
| 62.5° | 248.1 | 238.5 | 228.9 | 222.3 | 218.9 | 215.6 | 212.2 | 208.8 |
| 65° | 205.0 | 195.8 | 186.5 | 180.8 | 178.7 | 176.6 | 174.6 | 172.4 |
| 67.5° | 164.0 | 157.1 | 150.1 | 145.5 | 143.3 | 141.0 | 138.8 | 136.6 |
| 70° | 138.7 | 132.0 | 125.4 | 121.1 | 119.0 | 116.8 | 114.8 | 112.7 |
| 72.5° | 115.9 | 110.4 | 105.0 | 101.8 | 100.9 | 100.1 | 99.2 | 98.3 |
| 75° | 86.7 | 84.8 | 82.9 | 81.8 | 81.4 | 81.0 | 80.6 | 80.2 |
| 77.5° | 65.4 | 64.3 | 63.3 | 62.6 | 62.3 | 61.9 | 61.5 | 61.1 |
| 80° | 52.7 | 52.1 | 51.5 | 51.0 | 50.6 | 50.3 | 49.9 | 49.5 |
| 82.5° | 40.4 | 39.8 | 39.2 | 38.9 | 38.8 | 38.7 | 38.6 | 38.6 |
| 85° | 23.2 | 22.7 | 22.4 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| 87.5° | 14.8 | 14.9 | 15.0 | 15.0 | 14.9 | 14.9 | 14.8 | 14.8 |
| 90° | 31.4 | 32.5 | 33.6 | 34.4 | 35.0 | 35.5 | 36.0 | 36.5 |
| 92.5° | 34.7 | 36.4 | 38.2 | 39.1 | 39.5 | 39.8 | 40.1 | 40.4 |
| 95° | 41.6 | 43.5 | 45.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| 97.5° | 43.6 | 45.7 | 47.9 | 49.2 | 49.4 | 49.7 | 50.0 | 50.2 |
| 100° | 44.5 | 46.7 | 48.9 | 50.1 | 50.4 | 50.6 | 51.0 | 51.2 |
| 102.5° | 66.8 | 60.1 | 53.3 | 50.2 | 50.7 | 51.2 | 51.7 | 52.2 |
| 105° | 171.0 | 123.1 | 75.2 | 51.4 | 52.0 | 52.6 | 53.1 | 53.6 |
| 107.5° | 418.9 | 383.8 | 348.6 | 313.0 | 276.9 | 240.7 | 204.6 | 168.4 |
| 110° | 531.8 | 522.9 | 514.0 | 490.1 | 451.3 | 412.6 | 373.9 | 335.2 |



TEST NUMBER: P332448-930

CATALOG NUMBER: S123RDIW-S775D1535U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 611.5 | 611.6 | 611.8 | 607.8 | 599.6 | 591.4 | 583.3 | 575.0 |
| 115° | 705.1 | 707.8 | 710.5 | 712.3 | 713.5 | 714.5 | 715.6 | 716.7 |
| 117.5° | 789.8 | 791.9 | 794.1 | 795.3 | 795.5 | 795.7 | 796.0 | 796.1 |
| 120° | 845.4 | 847.5 | 849.7 | 850.8 | 850.8 | 850.8 | 850.8 | 850.8 |
| 122.5° | 899.6 | 901.2 | 902.7 | 903.5 | 903.8 | 903.9 | 904.2 | 904.4 |
| 125° | 976.2 | 976.7 | 977.2 | 977.8 | 978.4 | 978.8 | 979.4 | 980.0 |
| 127.5° | 1052.9 | 1053.8 | 1054.6 | 1054.8 | 1054.3 | 1053.7 | 1053.1 | 1052.6 |
| 130° | 1099.1 | 1100.2 | 1101.3 | 1101.6 | 1101.1 | 1100.5 | 1099.9 | 1099.4 |
| 132.5° | 1143.0 | 1144.1 | 1145.2 | 1145.3 | 1144.6 | 1143.9 | 1143.0 | 1142.3 |
| 135° | 1209.5 | 1210.3 | 1211.1 | 1211.1 | 1210.3 | 1209.5 | 1208.7 | 1207.9 |
| 137.5° | 1268.8 | 1270.1 | 1271.4 | 1271.7 | 1271.2 | 1270.6 | 1270.1 | 1269.6 |
| 140° | 1306.4 | 1307.4 | 1308.5 | 1308.8 | 1308.2 | 1307.7 | 1307.2 | 1306.6 |
| 142.5° | 1342.0 | 1342.9 | 1343.7 | 1343.8 | 1343.0 | 1342.2 | 1341.5 | 1340.8 |
| 145° | 1391.8 | 1392.4 | 1392.9 | 1393.2 | 1393.2 | 1393.2 | 1393.2 | 1393.2 |
| 147.5° | 1436.4 | 1437.0 | 1437.5 | 1437.1 | 1435.9 | 1434.7 | 1433.4 | 1432.2 |
| 150° | 1463.7 | 1464.3 | 1464.8 | 1464.7 | 1463.9 | 1463.1 | 1462.2 | 1461.4 |
| 152.5° | 1488.0 | 1489.0 | 1490.0 | 1489.8 | 1488.6 | 1487.3 | 1486.0 | 1484.8 |
| 155° | 1521.4 | 1522.7 | 1524.1 | 1524.0 | 1522.3 | 1520.7 | 1519.1 | 1517.5 |
| 157.5° | 1550.5 | 1552.1 | 1553.7 | 1553.5 | 1551.4 | 1549.2 | 1547.1 | 1545.0 |
| 160° | 1567.1 | 1568.6 | 1570.3 | 1570.2 | 1568.2 | 1566.4 | 1564.5 | 1562.6 |
| 162.5° | 1582.1 | 1584.0 | 1585.8 | 1585.8 | 1584.2 | 1582.5 | 1580.9 | 1579.2 |
| 165° | 1602.2 | 1604.4 | 1606.6 | 1606.7 | 1604.8 | 1603.0 | 1601.0 | 1599.1 |
| 167.5° | 1617.9 | 1620.0 | 1622.2 | 1622.2 | 1620.0 | 1617.9 | 1615.7 | 1613.6 |
| 170° | 1626.6 | 1628.8 | 1631.0 | 1631.0 | 1628.8 | 1626.6 | 1624.5 | 1622.3 |
| 172.5° | 1632.5 | 1634.7 | 1636.8 | 1636.7 | 1634.3 | 1632.0 | 1629.5 | 1627.2 |
| 175° | 1639.5 | 1641.4 | 1643.3 | 1643.2 | 1641.0 | 1638.8 | 1636.6 | 1634.5 |
| 177.5° | 1642.1 | 1643.8 | 1645.6 | 1645.4 | 1643.2 | 1641.0 | 1638.8 | 1636.7 |
| 180° | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 | 1640.5 |

(END OF REPORT)