

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: P332457-830

Luminaire Tested: **S123RDIW-S1000D755U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332457-830
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-S1000D755U830-4F0-1E-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: 6043.4 lumens
Efficiency: N/A
Efficacy: 112.8 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

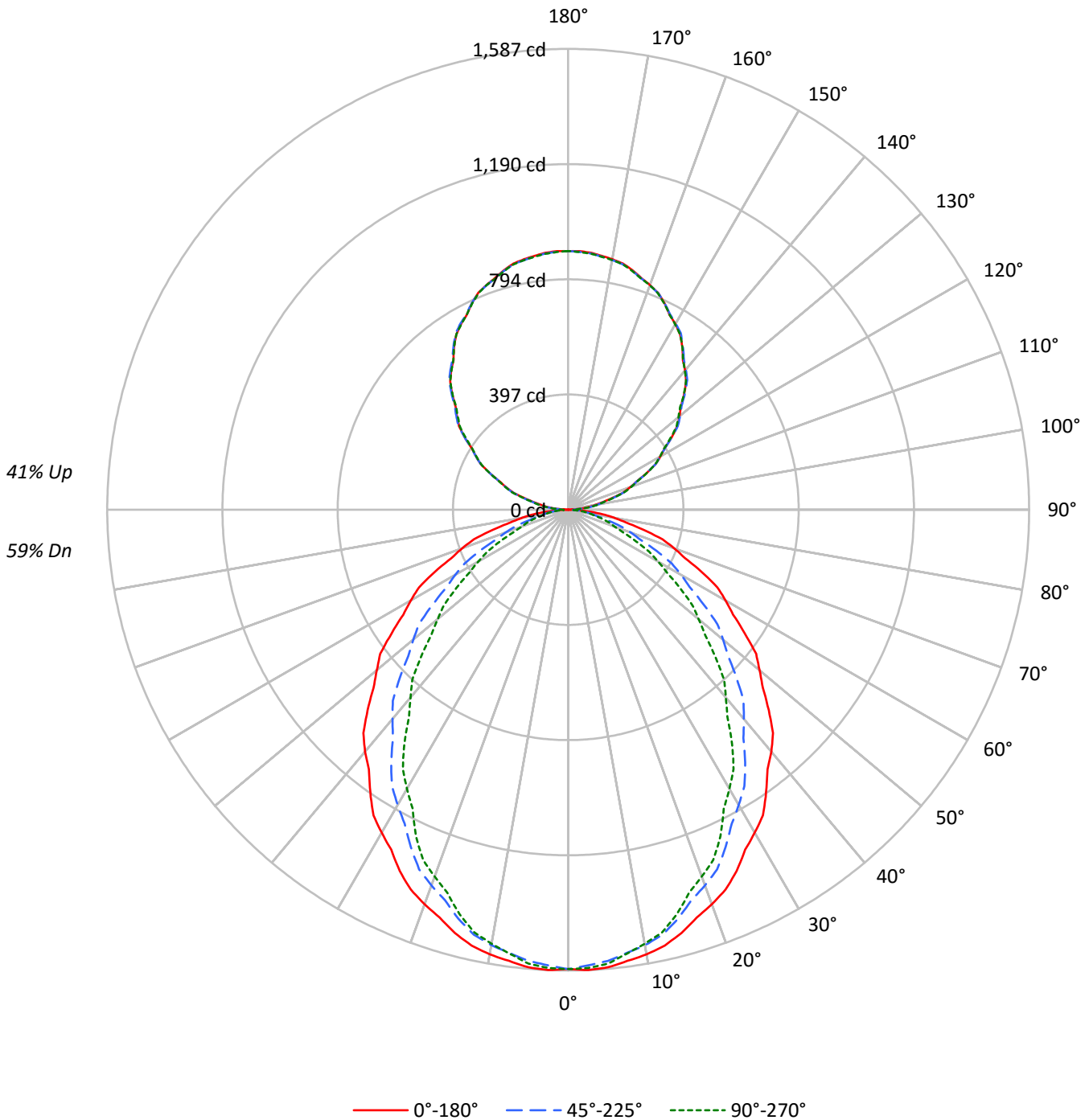
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-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° | 17026 | 17026 | 17026 |
| 5° | 17091 | 16855 | 16953 |
| 10° | 16994 | 16644 | 16587 |
| 15° | 16811 | 16254 | 16082 |
| 20° | 16561 | 15767 | 15400 |
| 25° | 16302 | 15221 | 14733 |
| 30° | 15960 | 14589 | 13793 |
| 35° | 15609 | 13958 | 12929 |
| 40° | 15286 | 13212 | 11861 |
| 45° | 14862 | 12478 | 10898 |
| 50° | 14393 | 11643 | 9818 |
| 55° | 13915 | 10689 | 8811 |
| 60° | 13476 | 9666 | 7705 |
| 65° | 12905 | 8560 | 6599 |
| 70° | 12192 | 7188 | 5331 |
| 75° | 11154 | 5656 | 5016 |
| 80° | 9937 | 5009 | 4612 |
| 85° | 8398 | 4434 | 4125 |



TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.5 | 2.5 |
| 10°-20° | 413.3 | 6.8 |
| 20°-30° | 595.1 | 9.8 |
| 30°-40° | 670.3 | 11.1 |
| 40°-50° | 641.3 | 10.6 |
| 50°-60° | 525.1 | 8.7 |
| 60°-70° | 354.3 | 5.9 |
| 70°-80° | 178.2 | 2.9 |
| 80°-90° | 49.8 | 0.8 |
| 90°-100° | 58.0 | 1.0 |
| 100°-110° | 173.6 | 2.9 |
| 110°-120° | 295.3 | 4.9 |
| 120°-130° | 388.5 | 6.4 |
| 130°-140° | 436.7 | 7.2 |
| 140°-150° | 429.2 | 7.1 |
| 150°-160° | 361.3 | 6.0 |
| 160°-170° | 240.5 | 4.0 |
| 170°-180° | 84.2 | 1.4 |
| 0°-30° | 1156.9 | 19.1 |
| 0°-40° | 1827.2 | 30.2 |
| 0°-60° | 2993.6 | 49.5 |
| 0°-90° | 3575.9 | 59.2 |
| 90°-120° | 527.0 | 8.7 |
| 90°-150° | 1781.4 | 29.5 |
| 90°-180° | 2468.0 | 40.8 |
| 0°-180° | 6043.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1582 | 1582 | 1582 | 1582 | 1582 | |
| 5° | 1582 | 1575 | 1560 | 1571 | 1569 | 150 |
| 15° | 1509 | 1493 | 1459 | 1452 | 1443 | 425 |
| 25° | 1373 | 1339 | 1282 | 1255 | 1240 | 631 |
| 35° | 1188 | 1140 | 1062 | 1009 | 984 | 743 |
| 45° | 976 | 916 | 820 | 749 | 716 | 753 |
| 55° | 742 | 676 | 570 | 498 | 470 | 665 |
| 65° | 507 | 435 | 336 | 276 | 259 | 501 |
| 75° | 268 | 206 | 136 | 124 | 121 | 286 |
| 85° | 68 | 41 | 36 | 34 | 33 | 76 |
| 90° | 1 | 8 | 17 | 20 | 21 | 6 |
| 95° | 41 | 46 | 52 | 54 | 55 | 46 |
| 105° | 157 | 159 | 165 | 165 | 166 | 169 |
| 115° | 297 | 299 | 298 | 299 | 298 | 294 |
| 125° | 435 | 437 | 436 | 433 | 430 | 388 |
| 135° | 565 | 568 | 568 | 565 | 564 | 435 |
| 145° | 685 | 686 | 688 | 688 | 685 | 428 |
| 155° | 784 | 784 | 785 | 787 | 783 | 361 |
| 165° | 854 | 852 | 852 | 856 | 851 | 241 |
| 175° | 888 | 886 | 886 | 889 | 885 | 84 |
| 180° | 891 | 891 | 891 | 891 | 891 | |



TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 |
| 2.5° | 1586.9 | 1585.9 | 1585.1 | 1584.1 | 1583.2 | 1581.4 | 1578.7 | 1575.9 | 1573.2 | 1570.5 | 1572.9 |
| 5° | 1581.8 | 1580.3 | 1578.9 | 1577.4 | 1576.0 | 1573.6 | 1570.2 | 1566.8 | 1563.4 | 1559.9 | 1562.5 |
| 7.5° | 1567.1 | 1565.6 | 1564.1 | 1562.5 | 1560.9 | 1557.9 | 1553.5 | 1549.1 | 1544.6 | 1540.2 | 1541.6 |
| 10° | 1554.8 | 1552.8 | 1550.8 | 1548.8 | 1546.8 | 1543.2 | 1538.1 | 1533.0 | 1527.9 | 1522.8 | 1523.1 |
| 12.5° | 1537.4 | 1535.1 | 1533.0 | 1530.7 | 1528.4 | 1524.2 | 1518.0 | 1511.6 | 1505.4 | 1499.1 | 1498.9 |
| 15° | 1508.6 | 1505.5 | 1502.3 | 1499.2 | 1496.1 | 1490.5 | 1482.5 | 1474.5 | 1466.6 | 1458.6 | 1457.2 |
| 17.5° | 1472.4 | 1468.8 | 1465.2 | 1461.5 | 1457.8 | 1451.0 | 1440.8 | 1430.7 | 1420.5 | 1410.3 | 1407.3 |
| 20° | 1445.8 | 1441.2 | 1436.6 | 1432.1 | 1427.5 | 1419.8 | 1409.0 | 1398.2 | 1387.3 | 1376.5 | 1372.8 |
| 22.5° | 1416.0 | 1410.8 | 1405.5 | 1400.2 | 1395.1 | 1386.7 | 1375.1 | 1363.6 | 1352.1 | 1340.6 | 1336.0 |
| 25° | 1372.6 | 1365.6 | 1358.4 | 1351.2 | 1344.2 | 1334.0 | 1320.9 | 1307.8 | 1294.7 | 1281.6 | 1275.5 |
| 27.5° | 1320.0 | 1312.2 | 1304.3 | 1296.5 | 1288.5 | 1277.3 | 1262.7 | 1248.1 | 1233.5 | 1219.0 | 1210.6 |
| 30° | 1284.1 | 1275.5 | 1267.1 | 1258.5 | 1249.9 | 1237.7 | 1221.7 | 1205.7 | 1189.8 | 1173.8 | 1164.1 |
| 32.5° | 1248.2 | 1238.5 | 1228.8 | 1219.1 | 1209.5 | 1196.2 | 1179.3 | 1162.4 | 1145.5 | 1128.6 | 1118.0 |
| 35° | 1187.9 | 1177.6 | 1167.3 | 1157.2 | 1146.9 | 1132.8 | 1115.2 | 1097.5 | 1079.9 | 1062.2 | 1049.9 |
| 37.5° | 1126.8 | 1115.4 | 1104.0 | 1092.6 | 1081.2 | 1066.1 | 1047.3 | 1028.3 | 1009.5 | 990.6 | 976.7 |
| 40° | 1087.9 | 1075.3 | 1062.7 | 1050.2 | 1037.6 | 1021.2 | 1001.1 | 980.8 | 960.5 | 940.3 | 925.5 |
| 42.5° | 1043.7 | 1031.1 | 1018.6 | 1006.1 | 993.5 | 976.9 | 955.9 | 935.0 | 914.1 | 893.2 | 876.9 |
| 45° | 976.3 | 963.4 | 950.6 | 937.7 | 924.9 | 907.6 | 885.6 | 863.7 | 841.7 | 819.7 | 803.5 |
| 47.5° | 908.8 | 894.7 | 880.6 | 866.5 | 852.4 | 834.4 | 812.5 | 790.5 | 768.5 | 746.6 | 729.0 |
| 50° | 859.5 | 846.1 | 832.7 | 819.4 | 805.9 | 787.7 | 764.6 | 741.5 | 718.4 | 695.3 | 677.6 |
| 52.5° | 815.4 | 800.9 | 786.3 | 771.8 | 757.2 | 738.5 | 715.7 | 692.8 | 670.0 | 647.1 | 628.7 |
| 55° | 741.5 | 727.5 | 713.5 | 699.6 | 685.6 | 666.5 | 642.2 | 618.0 | 593.8 | 569.6 | 553.1 |
| 57.5° | 673.3 | 658.0 | 642.8 | 627.5 | 612.4 | 592.6 | 568.2 | 543.8 | 519.5 | 495.2 | 479.6 |
| 60° | 626.0 | 610.4 | 594.7 | 579.0 | 563.3 | 543.7 | 520.0 | 496.3 | 472.7 | 449.0 | 433.6 |
| 62.5° | 578.8 | 563.2 | 547.4 | 531.8 | 516.1 | 496.4 | 472.8 | 449.1 | 425.5 | 401.8 | 387.3 |
| 65° | 506.7 | 491.1 | 475.3 | 459.7 | 444.0 | 425.1 | 402.8 | 380.6 | 358.4 | 336.1 | 322.2 |
| 67.5° | 434.6 | 418.8 | 402.9 | 387.1 | 371.3 | 352.6 | 331.3 | 310.0 | 288.7 | 267.3 | 256.9 |
| 70° | 387.4 | 372.0 | 356.7 | 341.2 | 325.8 | 308.2 | 288.2 | 268.2 | 248.3 | 228.4 | 218.4 |
| 72.5° | 340.2 | 325.1 | 309.9 | 294.7 | 279.6 | 262.9 | 244.8 | 226.7 | 208.5 | 190.4 | 182.2 |
| 75° | 268.2 | 254.4 | 240.7 | 227.1 | 213.4 | 198.7 | 183.0 | 167.3 | 151.7 | 136.0 | 133.1 |
| 77.5° | 202.5 | 190.0 | 177.7 | 165.3 | 153.0 | 141.7 | 131.6 | 121.5 | 111.4 | 101.3 | 99.8 |
| 80° | 160.3 | 148.6 | 137.0 | 125.3 | 113.6 | 104.8 | 98.8 | 92.7 | 86.8 | 80.8 | 79.9 |
| 82.5° | 120.4 | 110.3 | 100.2 | 90.0 | 79.9 | 73.5 | 70.7 | 68.0 | 65.1 | 62.3 | 61.5 |
| 85° | 68.0 | 61.7 | 55.4 | 49.2 | 42.9 | 39.3 | 38.5 | 37.6 | 36.8 | 35.9 | 35.3 |
| 87.5° | 24.8 | 22.5 | 20.4 | 18.2 | 16.0 | 15.1 | 15.5 | 15.9 | 16.3 | 16.7 | 16.6 |
| 90° | 0.7 | 2.3 | 3.8 | 5.4 | 6.9 | 8.7 | 10.7 | 12.7 | 14.8 | 16.8 | 17.4 |
| 92.5° | 17.0 | 18.0 | 19.0 | 20.1 | 21.1 | 22.2 | 23.4 | 24.6 | 25.7 | 26.9 | 27.3 |
| 95° | 41.3 | 42.3 | 43.5 | 44.6 | 45.6 | 46.8 | 48.1 | 49.3 | 50.5 | 51.7 | 52.4 |
| 97.5° | 73.3 | 74.1 | 74.9 | 75.8 | 76.5 | 77.4 | 78.3 | 79.2 | 80.1 | 81.1 | 81.7 |
| 100° | 95.1 | 96.0 | 97.0 | 97.9 | 98.9 | 99.7 | 100.5 | 101.3 | 102.1 | 102.8 | 103.3 |
| 102.5° | 120.4 | 120.9 | 121.5 | 122.0 | 122.5 | 123.4 | 124.4 | 125.5 | 126.4 | 127.4 | 127.9 |
| 105° | 157.4 | 157.7 | 158.1 | 158.3 | 158.6 | 159.5 | 160.9 | 162.3 | 163.7 | 165.1 | 165.1 |
| 107.5° | 200.5 | 200.7 | 200.9 | 201.0 | 201.2 | 201.6 | 202.2 | 202.7 | 203.3 | 203.9 | 204.3 |
| 110° | 227.3 | 227.7 | 228.0 | 228.3 | 228.6 | 228.9 | 229.2 | 229.5 | 229.9 | 230.2 | 230.8 |



TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 255.3 | 255.5 | 255.7 | 255.9 | 256.1 | 256.2 | 256.3 | 256.4 | 256.4 | 256.5 | 257.2 |
| 115° | 297.4 | 297.7 | 298.2 | 298.7 | 299.2 | 299.3 | 299.0 | 298.7 | 298.3 | 298.0 | 298.2 |
| 117.5° | 339.6 | 339.9 | 340.2 | 340.5 | 340.8 | 340.8 | 340.4 | 340.0 | 339.6 | 339.1 | 339.1 |
| 120° | 365.9 | 366.8 | 367.8 | 368.7 | 369.7 | 369.7 | 368.9 | 368.2 | 367.4 | 366.6 | 366.5 |
| 122.5° | 393.3 | 394.0 | 394.6 | 395.4 | 396.1 | 396.2 | 395.8 | 395.4 | 395.0 | 394.5 | 394.2 |
| 125° | 435.2 | 435.6 | 436.1 | 436.6 | 437.1 | 437.1 | 436.8 | 436.5 | 436.1 | 435.8 | 435.3 |
| 127.5° | 473.7 | 474.8 | 475.8 | 476.7 | 477.8 | 478.1 | 477.8 | 477.4 | 477.0 | 476.7 | 475.8 |
| 130° | 499.5 | 500.8 | 502.0 | 503.2 | 504.4 | 504.9 | 504.4 | 504.0 | 503.5 | 503.0 | 502.4 |
| 132.5° | 525.3 | 526.5 | 527.7 | 529.0 | 530.3 | 530.7 | 530.4 | 530.0 | 529.6 | 529.3 | 528.6 |
| 135° | 564.6 | 565.5 | 566.5 | 567.4 | 568.3 | 568.7 | 568.5 | 568.4 | 568.3 | 568.1 | 567.4 |
| 137.5° | 601.0 | 601.7 | 602.5 | 603.3 | 604.1 | 604.6 | 605.0 | 605.5 | 605.9 | 606.2 | 605.6 |
| 140° | 626.1 | 626.9 | 627.7 | 628.5 | 629.2 | 629.7 | 629.9 | 630.0 | 630.2 | 630.4 | 630.2 |
| 142.5° | 649.1 | 649.9 | 650.6 | 651.4 | 652.1 | 652.7 | 653.0 | 653.3 | 653.6 | 653.8 | 653.7 |
| 145° | 684.9 | 685.2 | 685.5 | 685.8 | 686.2 | 686.5 | 687.0 | 687.5 | 688.0 | 688.4 | 688.2 |
| 147.5° | 716.2 | 716.8 | 717.4 | 717.9 | 718.5 | 719.0 | 719.4 | 719.8 | 720.3 | 720.8 | 720.8 |
| 150° | 738.1 | 738.4 | 738.7 | 739.0 | 739.3 | 739.6 | 739.9 | 740.3 | 740.6 | 740.8 | 740.8 |
| 152.5° | 756.0 | 756.4 | 756.9 | 757.3 | 757.7 | 758.0 | 758.2 | 758.4 | 758.6 | 758.7 | 759.0 |
| 155° | 784.3 | 784.3 | 784.3 | 784.3 | 784.3 | 784.3 | 784.5 | 784.7 | 784.8 | 784.9 | 785.6 |
| 157.5° | 808.3 | 808.1 | 807.9 | 807.8 | 807.6 | 807.6 | 807.7 | 807.8 | 807.9 | 808.0 | 808.7 |
| 160° | 823.4 | 823.1 | 822.8 | 822.5 | 822.2 | 822.0 | 822.0 | 822.0 | 822.0 | 822.0 | 822.8 |
| 162.5° | 836.9 | 836.4 | 835.9 | 835.6 | 835.1 | 835.0 | 835.1 | 835.2 | 835.4 | 835.5 | 836.2 |
| 165° | 854.2 | 853.8 | 853.3 | 852.8 | 852.3 | 852.1 | 852.1 | 852.1 | 852.1 | 852.1 | 853.0 |
| 167.5° | 868.1 | 867.4 | 866.9 | 866.2 | 865.5 | 865.3 | 865.4 | 865.5 | 865.7 | 865.8 | 866.8 |
| 170° | 875.9 | 875.2 | 874.7 | 874.0 | 873.4 | 873.1 | 873.1 | 873.1 | 873.1 | 873.1 | 874.2 |
| 172.5° | 882.0 | 881.5 | 880.8 | 880.1 | 879.6 | 879.2 | 879.2 | 879.2 | 879.2 | 879.2 | 880.2 |
| 175° | 888.4 | 887.9 | 887.2 | 886.6 | 886.0 | 885.7 | 885.7 | 885.7 | 885.7 | 885.7 | 886.6 |
| 177.5° | 891.2 | 890.6 | 890.1 | 889.7 | 889.2 | 888.9 | 888.9 | 888.9 | 888.9 | 888.9 | 889.7 |
| 180° | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 |



TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 | 1581.8 |
| 2.5° | 1575.5 | 1578.0 | 1580.5 | 1581.5 | 1581.0 | 1580.6 | 1580.2 | 1579.7 |
| 5° | 1565.1 | 1567.6 | 1570.2 | 1571.2 | 1570.7 | 1570.1 | 1569.5 | 1569.0 |
| 7.5° | 1543.0 | 1544.5 | 1545.9 | 1546.1 | 1545.1 | 1544.2 | 1543.2 | 1542.2 |
| 10° | 1523.3 | 1523.6 | 1523.9 | 1523.3 | 1521.8 | 1520.4 | 1519.0 | 1517.6 |
| 12.5° | 1498.7 | 1498.6 | 1498.5 | 1497.5 | 1495.9 | 1494.2 | 1492.6 | 1490.9 |
| 15° | 1455.8 | 1454.3 | 1452.9 | 1451.1 | 1449.2 | 1447.2 | 1445.2 | 1443.2 |
| 17.5° | 1404.3 | 1401.3 | 1398.3 | 1395.2 | 1392.3 | 1389.3 | 1386.4 | 1383.4 |
| 20° | 1369.0 | 1365.4 | 1361.7 | 1358.1 | 1354.7 | 1351.2 | 1347.8 | 1344.4 |
| 22.5° | 1331.3 | 1326.7 | 1322.1 | 1318.1 | 1315.0 | 1311.8 | 1308.6 | 1305.4 |
| 25° | 1269.6 | 1263.6 | 1257.6 | 1253.0 | 1249.9 | 1246.8 | 1243.7 | 1240.5 |
| 27.5° | 1202.3 | 1194.0 | 1185.6 | 1179.1 | 1174.3 | 1169.5 | 1164.7 | 1160.0 |
| 30° | 1154.4 | 1144.7 | 1135.0 | 1127.9 | 1123.3 | 1118.8 | 1114.2 | 1109.7 |
| 32.5° | 1107.4 | 1096.8 | 1086.2 | 1078.6 | 1073.7 | 1068.9 | 1064.1 | 1059.3 |
| 35° | 1037.6 | 1025.4 | 1013.1 | 1004.5 | 999.4 | 994.2 | 989.1 | 983.9 |
| 37.5° | 962.8 | 948.9 | 935.0 | 924.8 | 918.5 | 912.2 | 905.9 | 899.6 |
| 40° | 910.7 | 895.9 | 881.0 | 870.3 | 863.7 | 857.2 | 850.6 | 844.1 |
| 42.5° | 860.7 | 844.5 | 828.3 | 817.3 | 811.4 | 805.6 | 799.7 | 793.8 |
| 45° | 787.2 | 771.0 | 754.7 | 743.2 | 736.3 | 729.5 | 722.6 | 715.9 |
| 47.5° | 711.2 | 693.6 | 675.9 | 664.0 | 657.9 | 651.9 | 645.7 | 639.6 |
| 50° | 660.0 | 642.2 | 624.6 | 612.5 | 606.0 | 599.4 | 592.9 | 586.3 |
| 52.5° | 610.4 | 592.0 | 573.6 | 561.5 | 555.6 | 549.8 | 543.9 | 538.0 |
| 55° | 536.5 | 520.0 | 503.4 | 492.3 | 486.6 | 480.9 | 475.2 | 469.5 |
| 57.5° | 463.9 | 448.3 | 432.7 | 422.4 | 417.6 | 412.7 | 407.9 | 403.0 |
| 60° | 418.2 | 402.8 | 387.4 | 377.3 | 372.5 | 367.6 | 362.8 | 357.9 |
| 62.5° | 372.8 | 358.4 | 343.8 | 334.0 | 329.0 | 324.0 | 318.9 | 313.8 |
| 65° | 308.2 | 294.2 | 280.2 | 271.6 | 268.5 | 265.4 | 262.3 | 259.1 |
| 67.5° | 246.5 | 236.0 | 225.6 | 218.7 | 215.4 | 212.0 | 208.6 | 205.3 |
| 70° | 208.4 | 198.4 | 188.4 | 181.9 | 178.7 | 175.6 | 172.5 | 169.4 |
| 72.5° | 174.1 | 165.9 | 157.8 | 153.1 | 151.7 | 150.4 | 149.1 | 147.8 |
| 75° | 130.3 | 127.4 | 124.6 | 122.9 | 122.3 | 121.7 | 121.1 | 120.6 |
| 77.5° | 98.3 | 96.7 | 95.2 | 94.2 | 93.6 | 93.0 | 92.5 | 91.9 |
| 80° | 79.1 | 78.2 | 77.4 | 76.7 | 76.2 | 75.6 | 74.9 | 74.4 |
| 82.5° | 60.6 | 59.8 | 58.9 | 58.4 | 58.3 | 58.2 | 58.1 | 58.0 |
| 85° | 34.8 | 34.2 | 33.6 | 33.4 | 33.4 | 33.4 | 33.4 | 33.4 |
| 87.5° | 16.5 | 16.4 | 16.3 | 16.1 | 16.0 | 15.8 | 15.6 | 15.5 |
| 90° | 18.0 | 18.7 | 19.3 | 19.7 | 20.1 | 20.4 | 20.6 | 21.0 |
| 92.5° | 27.9 | 28.4 | 28.8 | 29.0 | 28.8 | 28.7 | 28.5 | 28.3 |
| 95° | 53.0 | 53.6 | 54.3 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 |
| 97.5° | 82.5 | 83.1 | 83.9 | 84.2 | 84.2 | 84.1 | 84.0 | 84.0 |
| 100° | 103.8 | 104.2 | 104.7 | 105.1 | 105.4 | 105.8 | 106.0 | 106.3 |
| 102.5° | 128.4 | 128.8 | 129.3 | 129.5 | 129.5 | 129.4 | 129.3 | 129.3 |
| 105° | 165.1 | 165.1 | 165.1 | 165.2 | 165.6 | 165.9 | 166.2 | 166.5 |
| 107.5° | 204.8 | 205.4 | 205.9 | 206.0 | 205.9 | 205.7 | 205.5 | 205.3 |
| 110° | 231.4 | 232.1 | 232.6 | 232.8 | 232.5 | 232.1 | 231.9 | 231.6 |



TEST NUMBER: P332457-830

CATALOG NUMBER: S123RDIW-S1000D755U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 258.0 | 258.7 | 259.5 | 259.8 | 259.8 | 259.7 | 259.6 | 259.6 |
| 115° | 298.3 | 298.5 | 298.7 | 298.7 | 298.5 | 298.3 | 298.2 | 298.0 |
| 117.5° | 339.1 | 339.0 | 339.0 | 338.8 | 338.4 | 337.9 | 337.5 | 337.1 |
| 120° | 366.3 | 366.1 | 366.0 | 365.7 | 365.4 | 365.1 | 364.8 | 364.5 |
| 122.5° | 393.8 | 393.3 | 392.9 | 392.6 | 392.1 | 391.6 | 391.2 | 390.8 |
| 125° | 434.6 | 433.9 | 433.4 | 432.7 | 432.2 | 431.5 | 430.8 | 430.3 |
| 127.5° | 474.9 | 474.1 | 473.3 | 472.4 | 471.7 | 471.0 | 470.3 | 469.6 |
| 130° | 501.8 | 501.1 | 500.5 | 499.6 | 498.6 | 497.5 | 496.4 | 495.3 |
| 132.5° | 527.8 | 527.1 | 526.3 | 525.6 | 524.7 | 523.9 | 523.0 | 522.2 |
| 135° | 566.8 | 566.2 | 565.6 | 565.1 | 564.8 | 564.5 | 564.2 | 563.8 |
| 137.5° | 604.9 | 604.3 | 603.7 | 603.0 | 602.5 | 601.8 | 601.2 | 600.7 |
| 140° | 630.0 | 629.9 | 629.7 | 629.1 | 628.0 | 626.9 | 625.8 | 624.7 |
| 142.5° | 653.6 | 653.4 | 653.2 | 652.7 | 651.9 | 651.0 | 650.2 | 649.3 |
| 145° | 688.1 | 688.0 | 687.8 | 687.4 | 686.7 | 686.2 | 685.5 | 684.9 |
| 147.5° | 720.8 | 720.8 | 720.8 | 720.3 | 719.3 | 718.4 | 717.5 | 716.5 |
| 150° | 740.8 | 740.8 | 740.8 | 740.4 | 739.4 | 738.6 | 737.6 | 736.7 |
| 152.5° | 759.3 | 759.5 | 759.8 | 759.5 | 758.7 | 757.9 | 757.1 | 756.3 |
| 155° | 786.2 | 786.8 | 787.4 | 787.2 | 786.1 | 785.0 | 783.9 | 782.9 |
| 157.5° | 809.4 | 810.0 | 810.7 | 810.5 | 809.6 | 808.8 | 807.9 | 807.0 |
| 160° | 823.6 | 824.3 | 825.1 | 825.2 | 824.6 | 824.0 | 823.3 | 822.7 |
| 162.5° | 837.0 | 837.8 | 838.6 | 838.5 | 837.4 | 836.5 | 835.5 | 834.4 |
| 165° | 853.9 | 854.9 | 855.8 | 855.7 | 854.7 | 853.6 | 852.5 | 851.4 |
| 167.5° | 867.7 | 868.7 | 869.7 | 869.7 | 868.7 | 867.7 | 866.8 | 865.8 |
| 170° | 875.2 | 876.4 | 877.4 | 877.4 | 876.4 | 875.2 | 874.2 | 873.1 |
| 172.5° | 881.2 | 882.1 | 883.1 | 883.1 | 881.9 | 880.9 | 879.8 | 878.7 |
| 175° | 887.6 | 888.4 | 889.4 | 889.4 | 888.3 | 887.1 | 886.1 | 885.0 |
| 177.5° | 890.4 | 891.2 | 891.9 | 891.8 | 891.0 | 890.0 | 889.2 | 888.3 |
| 180° | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 |

(END OF REPORT)