

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: P331714-830

Luminaire Tested: **S122RDIP-S865D530U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331714-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S865D530U830-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4836.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

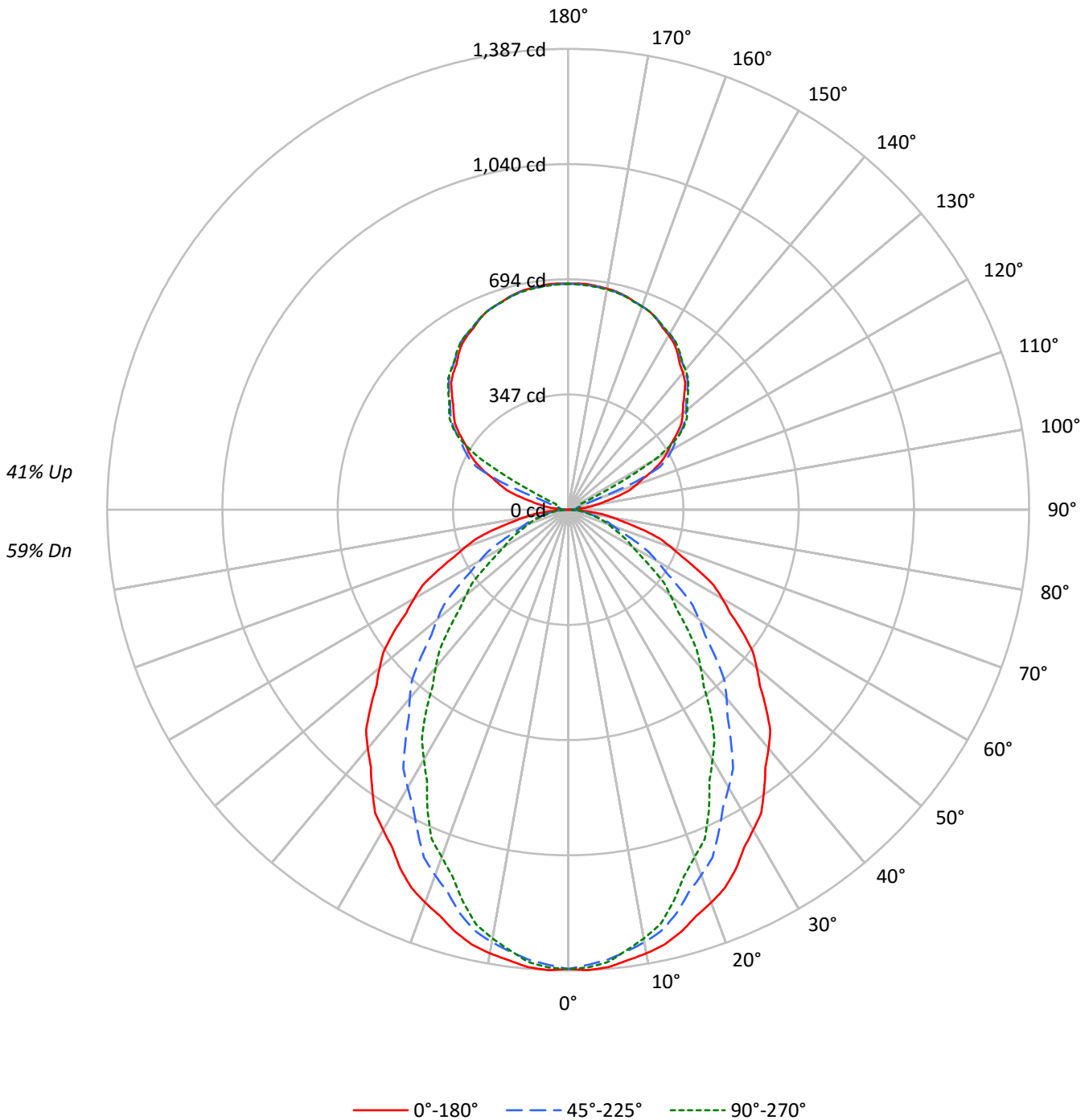
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1 | 100 | 96 | 92 | 89 | 93 | 90 | 87 | 84 | 78 | 76 | 74 | 68 | 66 | 64 | 58 | 56 | 55 | 51 |
| 2 | 92 | 85 | 79 | 74 | 85 | 79 | 74 | 70 | 69 | 65 | 62 | 60 | 57 | 55 | 51 | 49 | 47 | 43 |
| 3 | 84 | 75 | 68 | 62 | 78 | 70 | 64 | 59 | 62 | 57 | 53 | 54 | 50 | 47 | 46 | 43 | 41 | 37 |
| 4 | 77 | 67 | 59 | 53 | 72 | 63 | 56 | 51 | 55 | 50 | 45 | 48 | 44 | 41 | 42 | 38 | 36 | 33 |
| 5 | 71 | 60 | 52 | 46 | 66 | 56 | 49 | 44 | 50 | 44 | 40 | 43 | 39 | 36 | 38 | 34 | 32 | 29 |
| 6 | 66 | 54 | 46 | 40 | 61 | 51 | 44 | 38 | 45 | 39 | 35 | 40 | 35 | 32 | 34 | 31 | 28 | 25 |
| 7 | 61 | 49 | 41 | 36 | 57 | 46 | 39 | 34 | 41 | 35 | 31 | 36 | 32 | 28 | 32 | 28 | 25 | 23 |
| 8 | 57 | 45 | 37 | 32 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 33 | 29 | 25 | 29 | 26 | 23 | 21 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 21 | 19 |
| 10 | 50 | 38 | 31 | 26 | 46 | 36 | 29 | 25 | 32 | 27 | 23 | 28 | 24 | 21 | 25 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22315 | 22315 | 22315 |
| 5° | 22400 | 22034 | 22156 |
| 10° | 22228 | 21674 | 21489 |
| 15° | 21972 | 21031 | 20425 |
| 20° | 21618 | 20113 | 19105 |
| 25° | 21257 | 19073 | 17826 |
| 30° | 20752 | 18000 | 16183 |
| 35° | 20262 | 16837 | 14741 |
| 40° | 19770 | 15633 | 13076 |
| 45° | 19192 | 14280 | 11565 |
| 50° | 18600 | 12913 | 10083 |
| 55° | 17990 | 11443 | 8659 |
| 60° | 17286 | 9894 | 7188 |
| 65° | 16485 | 8313 | 6548 |
| 70° | 15526 | 6850 | 6019 |
| 75° | 14361 | 6245 | 5614 |
| 80° | 12673 | 5579 | 5114 |
| 85° | 9967 | 4409 | 4409 |



TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.4 | 2.7 |
| 10°-20° | 355.2 | 7.3 |
| 20°-30° | 498.8 | 10.3 |
| 30°-40° | 543.9 | 11.2 |
| 40°-50° | 500.1 | 10.3 |
| 50°-60° | 392.8 | 8.1 |
| 60°-70° | 256.1 | 5.3 |
| 70°-80° | 132.0 | 2.7 |
| 80°-90° | 35.9 | 0.7 |
| 90°-100° | 22.7 | 0.5 |
| 100°-110° | 83.2 | 1.7 |
| 110°-120° | 222.3 | 4.6 |
| 120°-130° | 366.9 | 7.6 |
| 130°-140° | 390.2 | 8.1 |
| 140°-150° | 362.7 | 7.5 |
| 150°-160° | 291.6 | 6.0 |
| 160°-170° | 187.9 | 3.9 |
| 170°-180° | 64.7 | 1.3 |
| 0°-30° | 983.3 | 20.3 |
| 0°-40° | 1527.2 | 31.6 |
| 0°-60° | 2420.1 | 50.0 |
| 0°-90° | 2844.1 | 58.8 |
| 90°-120° | 328.1 | 6.8 |
| 90°-150° | 1447.9 | 29.9 |
| 90°-180° | 1992.0 | 41.2 |
| 0°-180° | 4836.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1382 | 1382 | 1382 | 1382 | 1382 | |
| 5° | 1382 | 1375 | 1360 | 1370 | 1367 | 131 |
| 15° | 1314 | 1299 | 1258 | 1235 | 1222 | 370 |
| 25° | 1193 | 1151 | 1071 | 1021 | 1001 | 548 |
| 35° | 1028 | 962 | 854 | 778 | 748 | 643 |
| 45° | 840 | 754 | 625 | 540 | 506 | 649 |
| 55° | 639 | 539 | 406 | 334 | 308 | 571 |
| 65° | 432 | 330 | 218 | 177 | 171 | 428 |
| 75° | 230 | 145 | 100 | 92 | 90 | 244 |
| 85° | 54 | 29 | 24 | 24 | 24 | 63 |
| 90° | 0 | 6 | 10 | 12 | 13 | 4 |
| 95° | 32 | 17 | 19 | 22 | 21 | 39 |
| 105° | 150 | 156 | 30 | 35 | 37 | 160 |
| 115° | 283 | 291 | 304 | 86 | 40 | 278 |
| 125° | 400 | 406 | 416 | 419 | 421 | 356 |
| 135° | 495 | 502 | 507 | 512 | 511 | 382 |
| 145° | 574 | 574 | 582 | 585 | 583 | 359 |
| 155° | 632 | 628 | 634 | 636 | 632 | 291 |
| 165° | 666 | 663 | 664 | 668 | 664 | 188 |
| 175° | 681 | 678 | 679 | 682 | 677 | 65 |
| 180° | 680 | 680 | 680 | 680 | 680 | |



TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 |
| 2.5° | 1387.0 | 1385.9 | 1384.8 | 1383.7 | 1382.6 | 1380.8 | 1378.4 | 1375.9 | 1373.5 | 1371.0 | 1373.3 |
| 5° | 1382.1 | 1380.6 | 1379.2 | 1377.8 | 1376.5 | 1373.9 | 1370.4 | 1366.8 | 1363.1 | 1359.5 | 1362.0 |
| 7.5° | 1367.7 | 1366.0 | 1364.3 | 1362.6 | 1360.8 | 1357.9 | 1353.7 | 1349.4 | 1345.2 | 1341.0 | 1341.7 |
| 10° | 1355.8 | 1353.8 | 1351.9 | 1349.9 | 1347.9 | 1344.3 | 1338.7 | 1333.1 | 1327.6 | 1322.0 | 1321.2 |
| 12.5° | 1340.8 | 1338.3 | 1336.0 | 1333.6 | 1331.2 | 1326.4 | 1319.3 | 1312.2 | 1305.0 | 1298.0 | 1296.5 |
| 15° | 1314.5 | 1311.5 | 1308.3 | 1305.3 | 1302.2 | 1296.0 | 1286.6 | 1277.1 | 1267.6 | 1258.2 | 1252.9 |
| 17.5° | 1282.2 | 1277.5 | 1272.9 | 1268.2 | 1263.6 | 1255.2 | 1243.0 | 1230.9 | 1218.8 | 1206.6 | 1200.4 |
| 20° | 1258.2 | 1252.6 | 1247.1 | 1241.5 | 1236.0 | 1226.2 | 1212.3 | 1198.4 | 1184.6 | 1170.6 | 1163.7 |
| 22.5° | 1232.2 | 1226.0 | 1219.7 | 1213.5 | 1207.3 | 1196.4 | 1180.6 | 1165.0 | 1149.3 | 1133.6 | 1124.6 |
| 25° | 1193.2 | 1184.3 | 1175.4 | 1166.5 | 1157.6 | 1144.0 | 1125.6 | 1107.3 | 1088.9 | 1070.6 | 1059.2 |
| 27.5° | 1146.1 | 1136.4 | 1126.8 | 1117.1 | 1107.5 | 1092.3 | 1071.6 | 1050.9 | 1030.2 | 1009.6 | 996.3 |
| 30° | 1113.1 | 1102.6 | 1092.0 | 1081.5 | 1070.9 | 1054.5 | 1032.3 | 1010.0 | 987.8 | 965.5 | 951.4 |
| 32.5° | 1081.1 | 1068.7 | 1056.4 | 1044.1 | 1031.7 | 1014.3 | 991.6 | 968.8 | 946.2 | 923.5 | 907.4 |
| 35° | 1028.0 | 1013.9 | 999.8 | 985.5 | 971.4 | 952.1 | 927.6 | 903.1 | 878.7 | 854.2 | 836.7 |
| 37.5° | 975.1 | 959.5 | 944.0 | 928.3 | 912.8 | 891.9 | 865.9 | 839.8 | 813.8 | 787.7 | 768.4 |
| 40° | 938.0 | 921.3 | 904.7 | 888.0 | 871.3 | 849.5 | 822.6 | 795.6 | 768.6 | 741.7 | 721.9 |
| 42.5° | 900.0 | 882.4 | 864.9 | 847.3 | 829.7 | 807.0 | 779.2 | 751.3 | 723.5 | 695.6 | 675.2 |
| 45° | 840.5 | 821.8 | 803.2 | 784.6 | 766.0 | 742.1 | 712.9 | 683.7 | 654.5 | 625.4 | 605.6 |
| 47.5° | 782.4 | 762.7 | 743.0 | 723.2 | 703.5 | 678.5 | 648.5 | 618.3 | 588.1 | 558.1 | 538.5 |
| 50° | 740.5 | 720.7 | 701.0 | 681.2 | 661.5 | 636.3 | 605.8 | 575.1 | 544.6 | 514.1 | 494.8 |
| 52.5° | 699.4 | 678.7 | 658.2 | 637.5 | 616.9 | 591.6 | 561.8 | 531.8 | 501.9 | 472.0 | 453.5 |
| 55° | 639.1 | 617.5 | 595.8 | 574.1 | 552.4 | 526.5 | 496.5 | 466.5 | 436.5 | 406.5 | 389.8 |
| 57.5° | 577.3 | 555.1 | 532.8 | 510.6 | 488.4 | 462.9 | 433.9 | 405.1 | 376.3 | 347.4 | 332.2 |
| 60° | 535.3 | 513.0 | 490.9 | 468.6 | 446.4 | 420.9 | 392.3 | 363.6 | 335.1 | 306.4 | 292.3 |
| 62.5° | 494.3 | 472.0 | 449.8 | 427.5 | 405.3 | 380.6 | 353.3 | 326.0 | 298.7 | 271.4 | 257.9 |
| 65° | 431.5 | 409.0 | 386.4 | 363.9 | 341.5 | 317.6 | 292.7 | 267.7 | 242.6 | 217.6 | 208.2 |
| 67.5° | 371.0 | 348.6 | 326.3 | 303.9 | 281.5 | 259.1 | 236.7 | 214.1 | 191.6 | 169.1 | 164.8 |
| 70° | 328.9 | 307.3 | 285.6 | 263.9 | 242.2 | 221.8 | 202.6 | 183.4 | 164.3 | 145.1 | 142.3 |
| 72.5° | 288.9 | 268.2 | 247.3 | 226.6 | 205.8 | 187.7 | 172.3 | 156.8 | 141.5 | 126.1 | 123.8 |
| 75° | 230.2 | 210.7 | 191.2 | 171.7 | 152.3 | 137.9 | 128.4 | 118.9 | 109.5 | 100.1 | 98.1 |
| 77.5° | 172.4 | 155.2 | 138.2 | 121.1 | 104.1 | 93.3 | 88.7 | 84.2 | 79.6 | 75.0 | 73.9 |
| 80° | 136.3 | 122.2 | 108.0 | 93.8 | 79.6 | 71.2 | 68.3 | 65.6 | 62.8 | 60.0 | 58.9 |
| 82.5° | 103.3 | 92.3 | 81.2 | 70.1 | 59.1 | 52.6 | 50.7 | 48.8 | 46.9 | 45.1 | 44.4 |
| 85° | 53.8 | 48.0 | 42.1 | 36.3 | 30.4 | 27.1 | 26.3 | 25.4 | 24.6 | 23.8 | 23.8 |
| 87.5° | 16.1 | 14.6 | 13.0 | 11.5 | 10.0 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 | 9.9 |
| 90° | 0.5 | 1.7 | 2.9 | 4.1 | 5.3 | 6.3 | 7.3 | 8.1 | 9.0 | 9.8 | 10.4 |
| 92.5° | 9.9 | 9.8 | 9.7 | 9.6 | 9.5 | 9.7 | 10.1 | 10.6 | 10.9 | 11.4 | 11.7 |
| 95° | 32.0 | 28.4 | 24.8 | 21.1 | 17.5 | 16.1 | 16.9 | 17.6 | 18.4 | 19.2 | 19.7 |
| 97.5° | 63.4 | 53.3 | 43.2 | 33.0 | 22.8 | 18.6 | 20.4 | 22.1 | 23.9 | 25.6 | 26.1 |
| 100° | 87.1 | 72.1 | 57.1 | 42.1 | 27.1 | 20.6 | 22.4 | 24.3 | 26.2 | 28.0 | 28.9 |
| 102.5° | 113.0 | 109.9 | 106.7 | 103.5 | 100.4 | 91.0 | 75.5 | 59.9 | 44.4 | 28.8 | 30.0 |
| 105° | 149.5 | 152.8 | 156.1 | 159.4 | 162.7 | 149.4 | 119.5 | 89.7 | 59.9 | 30.0 | 31.2 |
| 107.5° | 191.1 | 193.8 | 196.4 | 199.1 | 201.7 | 185.1 | 149.4 | 113.6 | 77.8 | 42.0 | 40.8 |
| 110° | 217.9 | 220.2 | 222.5 | 224.8 | 227.1 | 212.4 | 180.9 | 149.3 | 117.6 | 86.1 | 75.1 |



TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 243.1 | 245.2 | 247.1 | 249.2 | 251.2 | 248.4 | 240.5 | 232.7 | 224.9 | 217.2 | 177.2 |
| 115° | 282.9 | 284.6 | 286.5 | 288.4 | 290.3 | 292.6 | 295.3 | 298.0 | 300.8 | 303.5 | 252.9 |
| 117.5° | 318.4 | 320.5 | 322.5 | 324.6 | 326.7 | 328.7 | 330.5 | 332.4 | 334.3 | 336.1 | 324.0 |
| 120° | 344.3 | 345.9 | 347.6 | 349.2 | 350.9 | 352.7 | 354.7 | 356.7 | 358.5 | 360.5 | 361.8 |
| 122.5° | 366.4 | 368.1 | 369.9 | 371.6 | 373.2 | 375.2 | 377.3 | 379.5 | 381.6 | 383.8 | 384.6 |
| 125° | 399.9 | 401.3 | 402.7 | 404.2 | 405.6 | 407.4 | 409.4 | 411.5 | 413.6 | 415.7 | 416.4 |
| 127.5° | 430.3 | 431.9 | 433.5 | 435.0 | 436.6 | 438.2 | 439.7 | 441.3 | 442.8 | 444.4 | 445.4 |
| 130° | 449.6 | 451.3 | 453.1 | 454.9 | 456.6 | 458.1 | 459.3 | 460.4 | 461.7 | 462.9 | 464.1 |
| 132.5° | 469.3 | 470.7 | 472.2 | 473.7 | 475.2 | 476.5 | 477.8 | 479.0 | 480.1 | 481.4 | 482.4 |
| 135° | 494.8 | 496.6 | 498.3 | 500.1 | 501.8 | 503.2 | 504.2 | 505.2 | 506.1 | 507.1 | 508.2 |
| 137.5° | 520.8 | 521.9 | 523.1 | 524.3 | 525.6 | 526.8 | 527.9 | 529.0 | 530.1 | 531.2 | 532.3 |
| 140° | 537.6 | 538.5 | 539.4 | 540.3 | 541.1 | 542.2 | 543.4 | 544.6 | 545.7 | 547.0 | 548.0 |
| 142.5° | 551.8 | 552.6 | 553.4 | 554.1 | 555.0 | 556.0 | 557.4 | 558.7 | 560.2 | 561.6 | 562.4 |
| 145° | 574.0 | 573.9 | 573.8 | 573.7 | 573.6 | 574.5 | 576.4 | 578.2 | 580.0 | 581.9 | 582.7 |
| 147.5° | 593.4 | 593.0 | 592.6 | 592.2 | 591.7 | 592.5 | 594.3 | 596.2 | 597.9 | 599.8 | 600.4 |
| 150° | 606.0 | 605.2 | 604.5 | 603.7 | 602.9 | 603.4 | 605.2 | 606.9 | 608.7 | 610.4 | 611.1 |
| 152.5° | 616.6 | 615.8 | 614.9 | 614.1 | 613.2 | 613.6 | 615.3 | 617.0 | 618.6 | 620.3 | 620.9 |
| 155° | 632.1 | 631.1 | 630.1 | 629.1 | 628.1 | 628.3 | 629.6 | 630.9 | 632.3 | 633.6 | 634.2 |
| 157.5° | 644.1 | 643.4 | 642.5 | 641.7 | 640.8 | 640.9 | 641.8 | 642.7 | 643.7 | 644.6 | 645.3 |
| 160° | 651.3 | 650.6 | 650.0 | 649.3 | 648.7 | 648.7 | 649.3 | 650.0 | 650.6 | 651.3 | 652.0 |
| 162.5° | 657.5 | 656.9 | 656.2 | 655.5 | 655.0 | 654.9 | 655.4 | 656.0 | 656.6 | 657.1 | 657.9 |
| 165° | 666.0 | 665.3 | 664.7 | 664.0 | 663.4 | 663.3 | 663.5 | 663.8 | 664.2 | 664.5 | 665.3 |
| 167.5° | 672.3 | 671.7 | 671.0 | 670.3 | 669.7 | 669.5 | 669.8 | 670.1 | 670.4 | 670.7 | 671.5 |
| 170° | 675.8 | 675.2 | 674.6 | 673.9 | 673.3 | 673.0 | 673.3 | 673.4 | 673.6 | 673.9 | 674.7 |
| 172.5° | 678.3 | 677.6 | 676.9 | 676.3 | 675.6 | 675.3 | 675.6 | 675.8 | 676.0 | 676.3 | 677.0 |
| 175° | 681.3 | 680.5 | 679.8 | 679.0 | 678.2 | 678.0 | 678.2 | 678.3 | 678.5 | 678.8 | 679.6 |
| 177.5° | 681.7 | 681.2 | 680.5 | 680.0 | 679.3 | 679.0 | 679.1 | 679.2 | 679.3 | 679.4 | 680.0 |
| 180° | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 |



TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 | 1382.1 |
| 2.5° | 1375.5 | 1377.7 | 1379.9 | 1380.8 | 1380.4 | 1379.9 | 1379.5 | 1379.0 |
| 5° | 1364.5 | 1367.0 | 1369.5 | 1370.4 | 1369.5 | 1368.7 | 1367.8 | 1367.0 |
| 7.5° | 1342.5 | 1343.1 | 1343.9 | 1343.5 | 1342.1 | 1340.7 | 1339.2 | 1337.8 |
| 10° | 1320.3 | 1319.5 | 1318.6 | 1317.4 | 1315.7 | 1314.1 | 1312.4 | 1310.7 |
| 12.5° | 1295.0 | 1293.5 | 1291.9 | 1289.9 | 1287.0 | 1284.3 | 1281.5 | 1278.7 |
| 15° | 1247.6 | 1242.4 | 1237.1 | 1233.0 | 1230.3 | 1227.5 | 1224.7 | 1221.9 |
| 17.5° | 1194.1 | 1187.8 | 1181.6 | 1176.0 | 1171.2 | 1166.5 | 1161.7 | 1156.9 |
| 20° | 1156.8 | 1149.8 | 1142.8 | 1136.3 | 1130.2 | 1124.1 | 1117.9 | 1111.9 |
| 22.5° | 1115.8 | 1106.8 | 1097.9 | 1091.1 | 1086.6 | 1081.9 | 1077.4 | 1072.9 |
| 25° | 1047.8 | 1036.4 | 1025.0 | 1017.2 | 1013.0 | 1008.9 | 1004.8 | 1000.6 |
| 27.5° | 983.0 | 969.7 | 956.4 | 946.5 | 939.9 | 933.2 | 926.6 | 920.0 |
| 30° | 937.2 | 923.0 | 908.8 | 898.0 | 890.5 | 883.0 | 875.5 | 868.0 |
| 32.5° | 891.2 | 875.0 | 858.8 | 847.2 | 840.2 | 833.1 | 826.0 | 819.0 |
| 35° | 819.2 | 801.7 | 784.2 | 772.4 | 766.3 | 760.2 | 754.0 | 747.9 |
| 37.5° | 749.1 | 729.8 | 710.6 | 697.4 | 690.4 | 683.3 | 676.4 | 669.4 |
| 40° | 702.2 | 682.5 | 662.7 | 649.2 | 642.1 | 634.8 | 627.5 | 620.4 |
| 42.5° | 654.9 | 634.4 | 614.1 | 600.3 | 593.3 | 586.4 | 579.3 | 572.3 |
| 45° | 585.9 | 566.2 | 546.4 | 533.2 | 526.5 | 519.9 | 513.2 | 506.5 |
| 47.5° | 518.8 | 499.2 | 479.6 | 466.7 | 460.7 | 454.6 | 448.6 | 442.5 |
| 50° | 475.7 | 456.5 | 437.3 | 424.8 | 419.0 | 413.1 | 407.3 | 401.4 |
| 52.5° | 435.0 | 416.5 | 397.9 | 386.1 | 380.6 | 375.2 | 369.9 | 364.5 |
| 55° | 373.2 | 356.5 | 339.8 | 328.8 | 323.5 | 318.2 | 312.9 | 307.6 |
| 57.5° | 316.9 | 301.6 | 286.3 | 276.4 | 272.0 | 267.5 | 263.1 | 258.6 |
| 60° | 278.1 | 263.9 | 249.7 | 240.4 | 235.9 | 231.5 | 227.1 | 222.6 |
| 62.5° | 244.4 | 230.9 | 217.4 | 209.2 | 206.6 | 204.0 | 201.2 | 198.6 |
| 65° | 198.7 | 189.3 | 179.8 | 174.7 | 173.8 | 173.1 | 172.2 | 171.4 |
| 67.5° | 160.4 | 156.1 | 151.7 | 149.1 | 148.3 | 147.3 | 146.5 | 145.6 |
| 70° | 139.5 | 136.8 | 133.9 | 132.1 | 130.9 | 129.8 | 128.7 | 127.5 |
| 72.5° | 121.4 | 119.0 | 116.7 | 115.3 | 114.5 | 113.9 | 113.2 | 112.5 |
| 75° | 96.1 | 94.3 | 92.3 | 91.1 | 90.9 | 90.6 | 90.3 | 90.0 |
| 77.5° | 72.9 | 71.7 | 70.6 | 69.8 | 69.4 | 68.9 | 68.5 | 68.1 |
| 80° | 57.8 | 56.7 | 55.6 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 |
| 82.5° | 43.7 | 43.0 | 42.3 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 |
| 85° | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| 87.5° | 9.7 | 9.6 | 9.5 | 9.5 | 9.5 | 9.6 | 9.6 | 9.6 |
| 90° | 10.9 | 11.5 | 12.1 | 12.4 | 12.6 | 12.8 | 13.1 | 13.3 |
| 92.5° | 12.0 | 12.3 | 12.5 | 12.7 | 12.9 | 13.0 | 13.2 | 13.3 |
| 95° | 20.3 | 20.8 | 21.4 | 21.6 | 21.5 | 21.4 | 21.3 | 21.1 |
| 97.5° | 26.6 | 27.0 | 27.4 | 27.7 | 27.8 | 28.0 | 28.1 | 28.3 |
| 100° | 29.8 | 30.6 | 31.6 | 32.0 | 32.3 | 32.5 | 32.7 | 33.0 |
| 102.5° | 31.1 | 32.2 | 33.4 | 34.1 | 34.4 | 34.7 | 35.0 | 35.3 |
| 105° | 32.4 | 33.6 | 34.8 | 35.6 | 36.1 | 36.5 | 36.9 | 37.4 |
| 107.5° | 39.6 | 38.4 | 37.1 | 36.8 | 37.1 | 37.6 | 38.0 | 38.5 |
| 110° | 64.2 | 53.3 | 42.3 | 37.1 | 37.5 | 38.0 | 38.5 | 38.8 |



TEST NUMBER: P331714-830

CATALOG NUMBER: S122RDIP-S865D530U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 137.3 | 97.5 | 57.6 | 37.9 | 38.2 | 38.5 | 38.9 | 39.2 |
| 115° | 202.3 | 151.7 | 101.0 | 71.8 | 63.9 | 56.1 | 48.2 | 40.3 |
| 117.5° | 311.7 | 299.4 | 287.2 | 268.2 | 242.2 | 216.4 | 190.6 | 164.7 |
| 120° | 363.2 | 364.5 | 365.8 | 359.1 | 344.3 | 329.6 | 314.8 | 300.0 |
| 122.5° | 385.3 | 386.2 | 386.9 | 385.9 | 383.0 | 380.1 | 377.3 | 374.4 |
| 125° | 417.2 | 417.9 | 418.7 | 419.2 | 419.6 | 419.9 | 420.3 | 420.6 |
| 127.5° | 446.6 | 447.7 | 448.8 | 449.4 | 449.5 | 449.6 | 449.6 | 449.7 |
| 130° | 465.2 | 466.5 | 467.7 | 468.3 | 468.1 | 468.0 | 467.9 | 467.8 |
| 132.5° | 483.4 | 484.5 | 485.5 | 485.9 | 485.8 | 485.7 | 485.6 | 485.5 |
| 135° | 509.3 | 510.4 | 511.5 | 512.0 | 511.7 | 511.5 | 511.3 | 511.0 |
| 137.5° | 533.4 | 534.4 | 535.6 | 535.8 | 535.5 | 535.1 | 534.8 | 534.4 |
| 140° | 548.9 | 549.9 | 550.9 | 551.1 | 550.5 | 550.1 | 549.5 | 548.9 |
| 142.5° | 563.4 | 564.2 | 565.1 | 565.3 | 564.8 | 564.2 | 563.6 | 563.1 |
| 145° | 583.4 | 584.2 | 584.9 | 585.0 | 584.6 | 584.0 | 583.4 | 582.9 |
| 147.5° | 601.0 | 601.5 | 602.1 | 602.1 | 601.7 | 601.2 | 600.8 | 600.3 |
| 150° | 611.7 | 612.4 | 613.0 | 613.1 | 612.6 | 612.0 | 611.4 | 611.0 |
| 152.5° | 621.6 | 622.3 | 622.9 | 622.8 | 622.2 | 621.4 | 620.7 | 620.0 |
| 155° | 634.9 | 635.6 | 636.2 | 636.0 | 635.2 | 634.3 | 633.5 | 632.5 |
| 157.5° | 646.0 | 646.8 | 647.5 | 647.5 | 646.6 | 645.7 | 644.9 | 644.0 |
| 160° | 652.5 | 653.2 | 653.8 | 653.8 | 653.1 | 652.3 | 651.5 | 650.7 |
| 162.5° | 658.6 | 659.4 | 660.2 | 660.1 | 659.1 | 658.2 | 657.2 | 656.3 |
| 165° | 666.1 | 666.8 | 667.6 | 667.6 | 666.8 | 666.1 | 665.3 | 664.5 |
| 167.5° | 672.2 | 673.1 | 673.8 | 673.7 | 672.7 | 671.8 | 670.7 | 669.8 |
| 170° | 675.4 | 676.2 | 676.9 | 676.8 | 675.8 | 674.9 | 673.9 | 672.9 |
| 172.5° | 677.8 | 678.5 | 679.3 | 679.2 | 678.3 | 677.2 | 676.3 | 675.2 |
| 175° | 680.3 | 681.1 | 681.8 | 681.7 | 680.6 | 679.5 | 678.4 | 677.3 |
| 177.5° | 680.6 | 681.3 | 681.8 | 681.7 | 681.0 | 680.1 | 679.4 | 678.6 |
| 180° | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 | 679.8 |

(END OF REPORT)