

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: P331745-940

Luminaire Tested: **S122RDIP-S1005D530U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331745-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S1005D530U940-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4793.1 lumens
Efficiency: N/A
Efficacy: 87.0 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: Semi-Direct

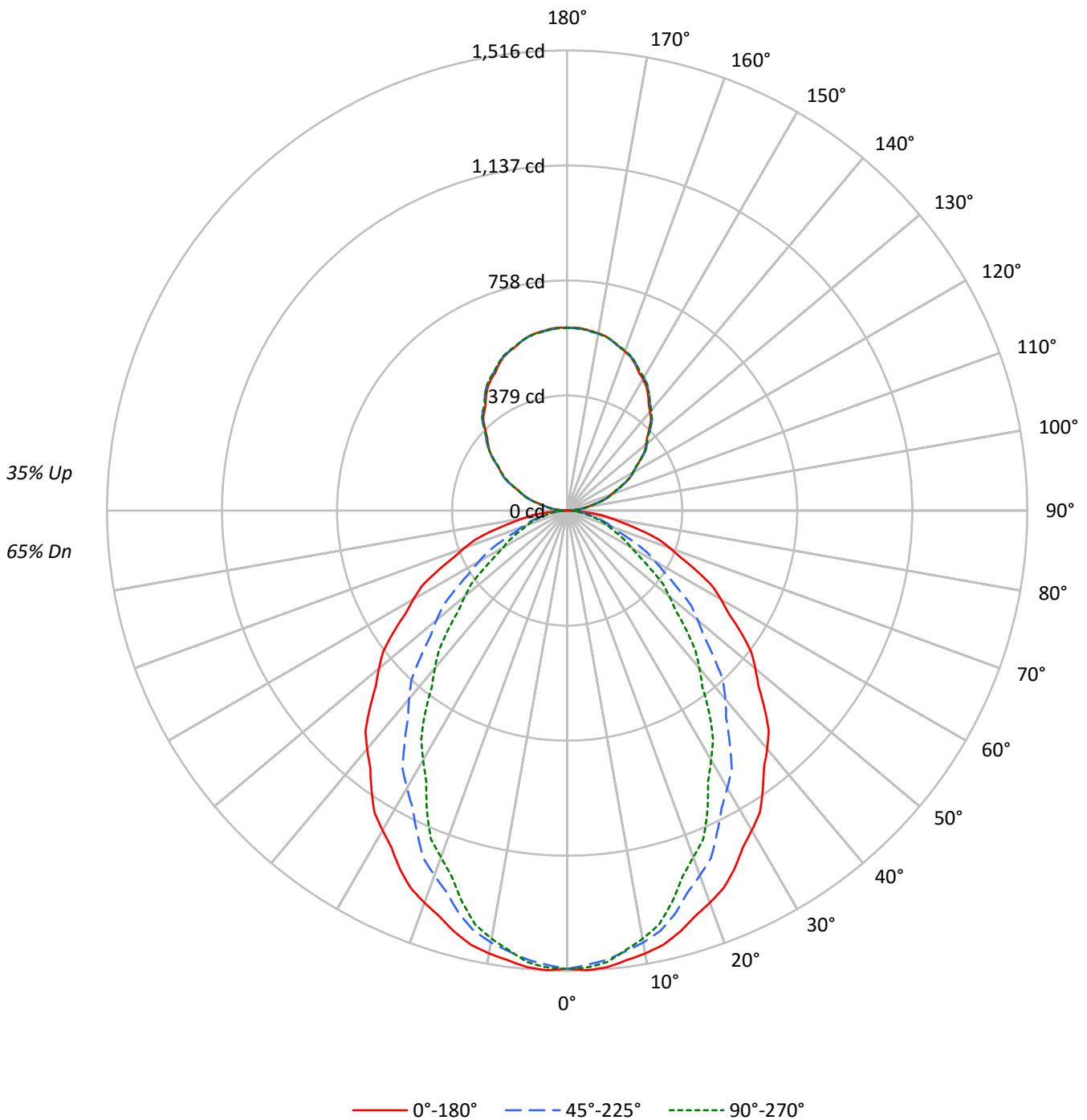
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1 | 102 | 98 | 94 | 90 | 96 | 92 | 89 | 86 | 81 | 79 | 77 | 72 | 70 | 68 | 63 | 61 | 60 | 56 |
| 2 | 93 | 86 | 80 | 75 | 87 | 81 | 76 | 71 | 72 | 68 | 64 | 64 | 61 | 58 | 56 | 54 | 52 | 48 |
| 3 | 85 | 76 | 69 | 63 | 80 | 72 | 66 | 60 | 64 | 59 | 55 | 57 | 53 | 50 | 50 | 47 | 45 | 41 |
| 4 | 78 | 68 | 60 | 54 | 74 | 64 | 57 | 52 | 57 | 52 | 47 | 51 | 47 | 43 | 45 | 42 | 39 | 36 |
| 5 | 72 | 61 | 53 | 47 | 68 | 58 | 50 | 45 | 52 | 46 | 41 | 46 | 42 | 38 | 41 | 37 | 34 | 32 |
| 6 | 67 | 55 | 47 | 41 | 63 | 52 | 45 | 40 | 47 | 41 | 37 | 42 | 37 | 34 | 37 | 34 | 31 | 28 |
| 7 | 62 | 50 | 42 | 36 | 58 | 47 | 40 | 35 | 43 | 37 | 33 | 38 | 34 | 30 | 34 | 30 | 28 | 25 |
| 8 | 58 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 39 | 33 | 29 | 35 | 31 | 27 | 32 | 28 | 25 | 23 |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 36 | 30 | 26 | 33 | 28 | 25 | 29 | 26 | 23 | 21 |
| 10 | 51 | 39 | 31 | 27 | 48 | 37 | 30 | 26 | 34 | 28 | 24 | 30 | 26 | 22 | 27 | 24 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 24380 | 24380 | 24380 |
| 5° | 24473 | 24076 | 24209 |
| 10° | 24287 | 23682 | 23481 |
| 15° | 24008 | 22980 | 22318 |
| 20° | 23622 | 21978 | 20874 |
| 25° | 23225 | 20838 | 19475 |
| 30° | 22676 | 19669 | 17682 |
| 35° | 22141 | 18398 | 16109 |
| 40° | 21602 | 17081 | 14286 |
| 45° | 20970 | 15602 | 12638 |
| 50° | 20321 | 14109 | 11017 |
| 55° | 19657 | 12504 | 9464 |
| 60° | 18887 | 10811 | 7857 |
| 65° | 18010 | 9085 | 7156 |
| 70° | 16966 | 7482 | 6581 |
| 75° | 15689 | 6818 | 6138 |
| 80° | 13845 | 6100 | 5588 |
| 85° | 10893 | 4798 | 4798 |



TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.3 | 2.9 |
| 10°-20° | 388.1 | 8.1 |
| 20°-30° | 545.0 | 11.4 |
| 30°-40° | 594.3 | 12.4 |
| 40°-50° | 546.4 | 11.4 |
| 50°-60° | 429.2 | 9.0 |
| 60°-70° | 279.8 | 5.8 |
| 70°-80° | 144.3 | 3.0 |
| 80°-90° | 39.8 | 0.8 |
| 90°-100° | 38.2 | 0.8 |
| 100°-110° | 118.6 | 2.5 |
| 110°-120° | 202.7 | 4.2 |
| 120°-130° | 266.6 | 5.6 |
| 130°-140° | 299.2 | 6.2 |
| 140°-150° | 293.4 | 6.1 |
| 150°-160° | 246.1 | 5.1 |
| 160°-170° | 163.2 | 3.4 |
| 170°-180° | 57.0 | 1.2 |
| 0°-30° | 1074.4 | 22.4 |
| 0°-40° | 1668.7 | 34.8 |
| 0°-60° | 2644.3 | 55.2 |
| 0°-90° | 3108.2 | 64.8 |
| 90°-120° | 359.5 | 7.5 |
| 90°-150° | 1218.6 | 25.4 |
| 90°-180° | 1685.0 | 35.2 |
| 0°-180° | 4793.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1510 | 1510 | 1510 | 1510 | 1510 | |
| 5° | 1510 | 1503 | 1486 | 1497 | 1494 | 143 |
| 15° | 1436 | 1419 | 1375 | 1350 | 1335 | 404 |
| 25° | 1304 | 1257 | 1170 | 1116 | 1093 | 599 |
| 35° | 1123 | 1051 | 933 | 850 | 817 | 703 |
| 45° | 918 | 824 | 683 | 590 | 554 | 709 |
| 55° | 698 | 589 | 444 | 365 | 336 | 624 |
| 65° | 471 | 360 | 238 | 194 | 187 | 467 |
| 75° | 252 | 158 | 109 | 100 | 98 | 266 |
| 85° | 59 | 31 | 26 | 26 | 26 | 69 |
| 90° | 0 | 7 | 18 | 17 | 17 | 4 |
| 95° | 26 | 31 | 32 | 32 | 32 | 30 |
| 105° | 109 | 111 | 112 | 113 | 113 | 115 |
| 115° | 203 | 206 | 206 | 205 | 203 | 201 |
| 125° | 296 | 300 | 299 | 298 | 297 | 264 |
| 135° | 383 | 388 | 390 | 389 | 387 | 296 |
| 145° | 465 | 468 | 471 | 472 | 470 | 290 |
| 155° | 531 | 533 | 534 | 537 | 536 | 244 |
| 165° | 578 | 578 | 578 | 581 | 579 | 163 |
| 175° | 602 | 600 | 599 | 602 | 600 | 57 |
| 180° | 602 | 602 | 602 | 602 | 602 | |



TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 |
| 2.5° | 1515.6 | 1514.3 | 1513.1 | 1511.9 | 1510.6 | 1508.7 | 1506.0 | 1503.4 | 1500.7 | 1498.1 | 1500.5 |
| 5° | 1510.0 | 1508.5 | 1507.0 | 1505.5 | 1504.0 | 1501.3 | 1497.3 | 1493.3 | 1489.4 | 1485.5 | 1488.2 |
| 7.5° | 1494.5 | 1492.6 | 1490.8 | 1488.8 | 1486.9 | 1483.7 | 1479.1 | 1474.4 | 1469.9 | 1465.3 | 1466.1 |
| 10° | 1481.4 | 1479.3 | 1477.1 | 1475.0 | 1472.8 | 1468.7 | 1462.7 | 1456.6 | 1450.5 | 1444.5 | 1443.6 |
| 12.5° | 1465.0 | 1462.3 | 1459.7 | 1457.1 | 1454.6 | 1449.3 | 1441.5 | 1433.8 | 1426.0 | 1418.3 | 1416.6 |
| 15° | 1436.3 | 1432.9 | 1429.6 | 1426.2 | 1422.9 | 1416.0 | 1405.8 | 1395.4 | 1385.1 | 1374.8 | 1369.0 |
| 17.5° | 1401.0 | 1395.9 | 1390.8 | 1385.7 | 1380.6 | 1371.5 | 1358.2 | 1345.0 | 1331.7 | 1318.5 | 1311.6 |
| 20° | 1374.8 | 1368.7 | 1362.6 | 1356.6 | 1350.5 | 1339.9 | 1324.6 | 1309.5 | 1294.3 | 1279.1 | 1271.5 |
| 22.5° | 1346.3 | 1339.5 | 1332.8 | 1326.0 | 1319.1 | 1307.2 | 1290.0 | 1272.9 | 1255.8 | 1238.7 | 1228.9 |
| 25° | 1303.7 | 1294.0 | 1284.2 | 1274.5 | 1264.8 | 1250.0 | 1229.9 | 1209.9 | 1189.8 | 1169.7 | 1157.4 |
| 27.5° | 1252.3 | 1241.8 | 1231.2 | 1220.7 | 1210.1 | 1193.5 | 1170.9 | 1148.3 | 1125.7 | 1103.1 | 1088.6 |
| 30° | 1216.3 | 1204.7 | 1193.2 | 1181.6 | 1170.1 | 1152.2 | 1127.8 | 1103.6 | 1079.3 | 1055.0 | 1039.5 |
| 32.5° | 1181.2 | 1167.8 | 1154.3 | 1140.9 | 1127.3 | 1108.2 | 1083.4 | 1058.6 | 1033.8 | 1009.1 | 991.4 |
| 35° | 1123.3 | 1107.9 | 1092.3 | 1076.8 | 1061.4 | 1040.3 | 1013.5 | 986.9 | 960.1 | 933.4 | 914.3 |
| 37.5° | 1065.4 | 1048.4 | 1031.4 | 1014.3 | 997.4 | 974.6 | 946.1 | 917.7 | 889.1 | 860.7 | 839.6 |
| 40° | 1024.9 | 1006.7 | 988.5 | 970.3 | 952.1 | 928.2 | 898.8 | 869.3 | 839.8 | 810.4 | 788.8 |
| 42.5° | 983.4 | 964.2 | 945.0 | 925.8 | 906.6 | 881.8 | 851.4 | 820.9 | 790.5 | 760.1 | 737.8 |
| 45° | 918.4 | 898.0 | 877.6 | 857.3 | 837.0 | 810.8 | 778.9 | 747.1 | 715.2 | 683.3 | 661.7 |
| 47.5° | 854.9 | 833.4 | 811.8 | 790.2 | 768.7 | 741.5 | 708.6 | 675.6 | 642.7 | 609.8 | 588.4 |
| 50° | 809.0 | 787.5 | 765.9 | 744.3 | 722.7 | 695.3 | 661.9 | 628.5 | 595.0 | 561.7 | 540.7 |
| 52.5° | 764.2 | 741.6 | 719.2 | 696.6 | 674.0 | 646.5 | 613.8 | 581.1 | 548.4 | 515.8 | 495.5 |
| 55° | 698.3 | 674.7 | 650.9 | 627.2 | 603.6 | 575.3 | 542.5 | 509.7 | 477.0 | 444.2 | 425.9 |
| 57.5° | 630.8 | 606.5 | 582.2 | 557.9 | 533.6 | 505.7 | 474.2 | 442.6 | 411.2 | 379.6 | 362.9 |
| 60° | 584.9 | 560.6 | 536.3 | 512.0 | 487.7 | 459.9 | 428.6 | 397.3 | 366.0 | 334.8 | 319.3 |
| 62.5° | 540.1 | 515.8 | 491.5 | 467.2 | 442.9 | 415.8 | 386.0 | 356.1 | 326.4 | 296.6 | 281.8 |
| 65° | 471.4 | 446.8 | 422.3 | 397.7 | 373.1 | 347.1 | 319.8 | 292.5 | 265.1 | 237.8 | 227.5 |
| 67.5° | 405.3 | 380.9 | 356.5 | 332.1 | 307.6 | 283.1 | 258.6 | 234.0 | 209.4 | 184.8 | 180.0 |
| 70° | 359.4 | 335.7 | 312.0 | 288.4 | 264.7 | 242.4 | 221.4 | 200.5 | 179.5 | 158.5 | 155.5 |
| 72.5° | 315.7 | 292.9 | 270.3 | 247.5 | 224.8 | 205.0 | 188.2 | 171.4 | 154.5 | 137.8 | 135.2 |
| 75° | 251.5 | 230.2 | 208.9 | 187.7 | 166.4 | 150.6 | 140.3 | 130.0 | 119.7 | 109.3 | 107.2 |
| 77.5° | 188.3 | 169.7 | 151.1 | 132.4 | 113.7 | 101.9 | 96.9 | 91.9 | 86.9 | 82.0 | 80.8 |
| 80° | 148.9 | 133.5 | 118.0 | 102.5 | 87.0 | 77.8 | 74.7 | 71.7 | 68.7 | 65.6 | 64.4 |
| 82.5° | 112.9 | 100.8 | 88.7 | 76.6 | 64.6 | 57.4 | 55.4 | 53.3 | 51.3 | 49.2 | 48.5 |
| 85° | 58.8 | 52.3 | 46.0 | 39.6 | 33.3 | 29.6 | 28.7 | 27.8 | 26.8 | 25.9 | 25.9 |
| 87.5° | 17.6 | 16.0 | 14.3 | 12.6 | 10.9 | 10.3 | 10.8 | 11.3 | 11.8 | 12.3 | 12.0 |
| 90° | 0.5 | 1.9 | 3.2 | 4.5 | 6.0 | 7.8 | 10.3 | 12.8 | 15.3 | 17.8 | 17.6 |
| 92.5° | 9.1 | 10.1 | 11.1 | 12.0 | 13.0 | 13.8 | 14.4 | 15.0 | 15.6 | 16.1 | 16.2 |
| 95° | 26.5 | 27.6 | 28.7 | 29.9 | 30.9 | 31.7 | 31.8 | 32.1 | 32.3 | 32.5 | 32.5 |
| 97.5° | 48.3 | 49.3 | 50.3 | 51.3 | 52.3 | 53.0 | 53.4 | 53.9 | 54.3 | 54.8 | 54.8 |
| 100° | 64.6 | 65.5 | 66.3 | 67.3 | 68.2 | 68.8 | 69.2 | 69.5 | 69.8 | 70.2 | 70.2 |
| 102.5° | 81.7 | 82.4 | 83.1 | 83.8 | 84.5 | 85.2 | 85.6 | 86.0 | 86.4 | 86.9 | 86.9 |
| 105° | 109.3 | 109.7 | 110.0 | 110.3 | 110.7 | 110.9 | 111.2 | 111.4 | 111.6 | 111.9 | 112.1 |
| 107.5° | 137.2 | 137.7 | 138.2 | 138.7 | 139.2 | 139.5 | 139.5 | 139.5 | 139.5 | 139.5 | 139.6 |
| 110° | 155.1 | 155.8 | 156.4 | 157.1 | 157.8 | 158.1 | 158.1 | 158.1 | 158.1 | 158.1 | 158.1 |



TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 174.6 | 175.3 | 175.9 | 176.6 | 177.4 | 177.6 | 177.5 | 177.5 | 177.4 | 177.3 | 177.0 |
| 115° | 203.4 | 204.1 | 204.7 | 205.5 | 206.1 | 206.3 | 206.1 | 205.9 | 205.6 | 205.5 | 205.4 |
| 117.5° | 232.1 | 233.0 | 233.9 | 234.8 | 235.7 | 235.9 | 235.2 | 234.5 | 233.9 | 233.3 | 233.0 |
| 120° | 251.2 | 252.1 | 253.0 | 253.9 | 254.9 | 254.9 | 253.9 | 253.0 | 252.1 | 251.2 | 251.2 |
| 122.5° | 268.7 | 269.7 | 270.9 | 272.0 | 273.0 | 273.2 | 272.6 | 272.0 | 271.3 | 270.7 | 270.5 |
| 125° | 296.0 | 296.9 | 298.0 | 299.0 | 300.0 | 300.3 | 300.0 | 299.7 | 299.3 | 299.0 | 298.6 |
| 127.5° | 322.4 | 323.8 | 325.0 | 326.4 | 327.6 | 328.1 | 327.7 | 327.3 | 326.9 | 326.5 | 326.0 |
| 130° | 339.2 | 340.6 | 342.1 | 343.6 | 345.0 | 345.6 | 345.4 | 345.2 | 345.0 | 344.7 | 344.6 |
| 132.5° | 357.8 | 359.1 | 360.3 | 361.5 | 362.7 | 363.3 | 363.4 | 363.4 | 363.5 | 363.5 | 363.0 |
| 135° | 382.9 | 384.1 | 385.4 | 386.6 | 387.9 | 388.6 | 388.8 | 389.1 | 389.3 | 389.5 | 389.4 |
| 137.5° | 409.2 | 410.3 | 411.3 | 412.3 | 413.3 | 413.9 | 414.3 | 414.6 | 414.8 | 415.1 | 415.0 |
| 140° | 425.1 | 426.1 | 427.1 | 428.1 | 429.2 | 430.0 | 430.5 | 431.1 | 431.7 | 432.2 | 432.2 |
| 142.5° | 441.4 | 442.4 | 443.4 | 444.4 | 445.4 | 446.1 | 446.6 | 446.9 | 447.3 | 447.6 | 447.7 |
| 145° | 464.8 | 465.6 | 466.4 | 467.2 | 468.0 | 468.7 | 469.3 | 470.0 | 470.7 | 471.4 | 471.4 |
| 147.5° | 485.6 | 486.5 | 487.5 | 488.5 | 489.4 | 490.1 | 490.5 | 491.0 | 491.4 | 492.0 | 492.1 |
| 150° | 499.9 | 500.5 | 501.2 | 501.9 | 502.6 | 503.1 | 503.5 | 504.0 | 504.4 | 505.0 | 505.2 |
| 152.5° | 512.5 | 513.2 | 513.8 | 514.5 | 515.1 | 515.8 | 516.3 | 516.8 | 517.4 | 518.0 | 518.4 |
| 155° | 531.4 | 531.7 | 532.1 | 532.4 | 532.7 | 533.1 | 533.4 | 533.8 | 534.0 | 534.4 | 535.0 |
| 157.5° | 547.5 | 547.8 | 548.0 | 548.2 | 548.5 | 548.7 | 548.8 | 549.1 | 549.3 | 549.5 | 550.3 |
| 160° | 557.3 | 557.5 | 557.8 | 557.9 | 558.2 | 558.4 | 558.5 | 558.6 | 558.7 | 558.8 | 559.5 |
| 162.5° | 566.2 | 566.3 | 566.3 | 566.4 | 566.4 | 566.5 | 566.6 | 566.8 | 566.9 | 566.9 | 567.8 |
| 165° | 578.2 | 578.0 | 577.9 | 577.8 | 577.7 | 577.7 | 577.7 | 577.7 | 577.7 | 577.7 | 578.5 |
| 167.5° | 588.1 | 587.8 | 587.5 | 587.1 | 586.7 | 586.6 | 586.6 | 586.6 | 586.5 | 586.5 | 587.3 |
| 170° | 593.4 | 593.1 | 592.7 | 592.4 | 592.1 | 591.8 | 591.7 | 591.6 | 591.5 | 591.4 | 592.2 |
| 172.5° | 597.1 | 596.7 | 596.4 | 596.0 | 595.8 | 595.5 | 595.4 | 595.3 | 595.1 | 595.0 | 595.8 |
| 175° | 601.5 | 601.2 | 600.8 | 600.6 | 600.2 | 599.9 | 599.7 | 599.5 | 599.2 | 599.0 | 599.8 |
| 177.5° | 603.4 | 603.1 | 602.8 | 602.5 | 602.3 | 602.1 | 601.9 | 601.7 | 601.5 | 601.4 | 601.9 |
| 180° | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 |



TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 |
| 2.5° | 1502.9 | 1505.3 | 1507.8 | 1508.7 | 1508.2 | 1507.8 | 1507.3 | 1506.8 |
| 5° | 1490.9 | 1493.7 | 1496.4 | 1497.3 | 1496.4 | 1495.5 | 1494.6 | 1493.7 |
| 7.5° | 1466.8 | 1467.6 | 1468.4 | 1468.0 | 1466.4 | 1464.8 | 1463.3 | 1461.7 |
| 10° | 1442.6 | 1441.7 | 1440.8 | 1439.5 | 1437.6 | 1435.8 | 1434.0 | 1432.2 |
| 12.5° | 1415.0 | 1413.3 | 1411.7 | 1409.3 | 1406.3 | 1403.3 | 1400.3 | 1397.2 |
| 15° | 1363.2 | 1357.5 | 1351.7 | 1347.3 | 1344.3 | 1341.2 | 1338.2 | 1335.2 |
| 17.5° | 1304.8 | 1297.9 | 1291.0 | 1285.0 | 1279.8 | 1274.5 | 1269.3 | 1264.1 |
| 20° | 1263.9 | 1256.3 | 1248.8 | 1241.6 | 1234.9 | 1228.2 | 1221.6 | 1214.9 |
| 22.5° | 1219.1 | 1209.3 | 1199.5 | 1192.1 | 1187.2 | 1182.2 | 1177.2 | 1172.2 |
| 25° | 1144.9 | 1132.5 | 1120.0 | 1111.5 | 1106.9 | 1102.3 | 1097.8 | 1093.2 |
| 27.5° | 1074.1 | 1059.5 | 1045.0 | 1034.1 | 1026.9 | 1019.7 | 1012.4 | 1005.2 |
| 30° | 1024.0 | 1008.5 | 993.0 | 981.2 | 973.0 | 964.8 | 956.6 | 948.4 |
| 32.5° | 973.7 | 956.1 | 938.3 | 925.7 | 918.0 | 910.3 | 902.5 | 894.8 |
| 35° | 895.1 | 876.0 | 856.8 | 843.9 | 837.2 | 830.5 | 823.9 | 817.3 |
| 37.5° | 818.5 | 797.5 | 776.3 | 762.0 | 754.4 | 746.7 | 739.0 | 731.4 |
| 40° | 767.2 | 745.6 | 724.2 | 709.4 | 701.5 | 693.6 | 685.7 | 677.8 |
| 42.5° | 715.5 | 693.2 | 670.9 | 655.9 | 648.3 | 640.6 | 633.0 | 625.4 |
| 45° | 640.2 | 618.6 | 597.0 | 582.6 | 575.3 | 568.0 | 560.7 | 553.5 |
| 47.5° | 566.9 | 545.5 | 524.0 | 510.0 | 503.4 | 496.8 | 490.1 | 483.5 |
| 50° | 519.8 | 498.8 | 477.9 | 464.1 | 457.8 | 451.4 | 445.1 | 438.6 |
| 52.5° | 475.3 | 455.0 | 434.9 | 421.8 | 415.9 | 410.0 | 404.1 | 398.2 |
| 55° | 407.7 | 389.5 | 371.2 | 359.3 | 353.5 | 347.7 | 342.0 | 336.2 |
| 57.5° | 346.3 | 329.5 | 312.8 | 302.0 | 297.2 | 292.3 | 287.5 | 282.6 |
| 60° | 303.8 | 288.4 | 272.9 | 262.7 | 257.8 | 253.0 | 248.1 | 243.3 |
| 62.5° | 267.1 | 252.3 | 237.6 | 228.6 | 225.8 | 222.8 | 219.9 | 217.0 |
| 65° | 217.1 | 206.8 | 196.4 | 190.8 | 189.9 | 189.0 | 188.2 | 187.3 |
| 67.5° | 175.3 | 170.6 | 165.8 | 162.9 | 162.0 | 161.0 | 160.1 | 159.1 |
| 70° | 152.5 | 149.5 | 146.4 | 144.3 | 143.0 | 141.8 | 140.6 | 139.4 |
| 72.5° | 132.7 | 130.1 | 127.5 | 125.9 | 125.2 | 124.5 | 123.7 | 123.0 |
| 75° | 105.0 | 103.0 | 100.9 | 99.6 | 99.3 | 99.0 | 98.7 | 98.4 |
| 77.5° | 79.5 | 78.4 | 77.1 | 76.2 | 75.8 | 75.3 | 74.8 | 74.4 |
| 80° | 63.1 | 62.0 | 60.7 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 |
| 82.5° | 47.7 | 47.0 | 46.3 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 85° | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 |
| 87.5° | 11.8 | 11.4 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 90° | 17.4 | 17.1 | 16.9 | 16.9 | 16.9 | 17.0 | 17.2 | 17.3 |
| 92.5° | 16.2 | 16.3 | 16.3 | 16.4 | 16.4 | 16.4 | 16.5 | 16.5 |
| 95° | 32.5 | 32.5 | 32.5 | 32.5 | 32.2 | 32.0 | 31.7 | 31.6 |
| 97.5° | 54.8 | 54.8 | 54.8 | 54.7 | 54.7 | 54.7 | 54.7 | 54.6 |
| 100° | 70.2 | 70.2 | 70.2 | 70.1 | 70.0 | 69.9 | 69.8 | 69.6 |
| 102.5° | 87.0 | 87.1 | 87.2 | 87.2 | 87.1 | 86.9 | 86.9 | 86.8 |
| 105° | 112.4 | 112.5 | 112.8 | 112.9 | 112.9 | 112.9 | 112.9 | 112.9 |
| 107.5° | 139.6 | 139.7 | 139.8 | 139.6 | 139.0 | 138.6 | 138.0 | 137.5 |
| 110° | 158.1 | 158.1 | 158.1 | 158.0 | 157.7 | 157.3 | 156.9 | 156.6 |



TEST NUMBER: P331745-940

CATALOG NUMBER: S122RDIP-S1005D530U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 176.7 | 176.5 | 176.2 | 175.9 | 175.7 | 175.4 | 175.1 | 175.0 |
| 115° | 205.2 | 205.1 | 205.0 | 204.7 | 204.4 | 204.1 | 203.8 | 203.4 |
| 117.5° | 232.7 | 232.5 | 232.2 | 231.9 | 231.6 | 231.2 | 230.9 | 230.5 |
| 120° | 251.2 | 251.2 | 251.2 | 251.0 | 250.7 | 250.4 | 250.0 | 249.7 |
| 122.5° | 270.2 | 269.9 | 269.7 | 269.4 | 269.1 | 268.9 | 268.7 | 268.4 |
| 125° | 298.3 | 298.0 | 297.7 | 297.4 | 297.3 | 297.2 | 297.0 | 296.9 |
| 127.5° | 325.7 | 325.2 | 324.9 | 324.4 | 324.0 | 323.7 | 323.3 | 323.0 |
| 130° | 344.3 | 344.1 | 343.8 | 343.5 | 343.0 | 342.6 | 342.1 | 341.7 |
| 132.5° | 362.5 | 361.9 | 361.5 | 361.1 | 360.7 | 360.3 | 360.0 | 359.6 |
| 135° | 389.3 | 389.1 | 389.1 | 388.8 | 388.5 | 388.2 | 387.8 | 387.4 |
| 137.5° | 414.9 | 414.8 | 414.7 | 414.5 | 414.0 | 413.6 | 413.1 | 412.7 |
| 140° | 432.2 | 432.2 | 432.2 | 432.0 | 431.5 | 431.1 | 430.6 | 430.2 |
| 142.5° | 447.8 | 447.9 | 448.0 | 447.8 | 447.4 | 446.9 | 446.5 | 446.0 |
| 145° | 471.6 | 471.7 | 471.8 | 471.6 | 471.2 | 470.7 | 470.3 | 469.8 |
| 147.5° | 492.4 | 492.7 | 492.9 | 492.8 | 492.4 | 492.0 | 491.5 | 491.1 |
| 150° | 505.6 | 506.0 | 506.3 | 506.3 | 506.0 | 505.6 | 505.2 | 505.0 |
| 152.5° | 518.8 | 519.2 | 519.7 | 519.7 | 519.2 | 518.8 | 518.4 | 518.0 |
| 155° | 535.6 | 536.1 | 536.7 | 536.8 | 536.5 | 536.1 | 535.7 | 535.5 |
| 157.5° | 551.0 | 551.8 | 552.6 | 552.7 | 552.1 | 551.6 | 551.1 | 550.5 |
| 160° | 560.2 | 560.9 | 561.5 | 561.7 | 561.2 | 560.8 | 560.3 | 559.8 |
| 162.5° | 568.5 | 569.3 | 570.1 | 570.2 | 569.6 | 569.1 | 568.6 | 568.0 |
| 165° | 579.3 | 580.1 | 580.8 | 580.9 | 580.3 | 579.8 | 579.3 | 578.6 |
| 167.5° | 588.1 | 588.9 | 589.7 | 589.8 | 589.2 | 588.6 | 588.0 | 587.4 |
| 170° | 593.0 | 593.8 | 594.5 | 594.6 | 593.9 | 593.3 | 592.5 | 591.9 |
| 172.5° | 596.6 | 597.4 | 598.2 | 598.2 | 597.6 | 596.9 | 596.2 | 595.6 |
| 175° | 600.6 | 601.4 | 602.2 | 602.3 | 601.5 | 600.8 | 600.2 | 599.5 |
| 177.5° | 602.4 | 603.0 | 603.5 | 603.5 | 603.0 | 602.4 | 601.9 | 601.4 |
| 180° | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 |

(END OF REPORT)