

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: P331752-940

Luminaire Tested: **S122RDIP-S1005D725U940-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331752-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S1005D725U940-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5631.4 lumens
Efficiency: N/A
Efficacy: 92.8 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

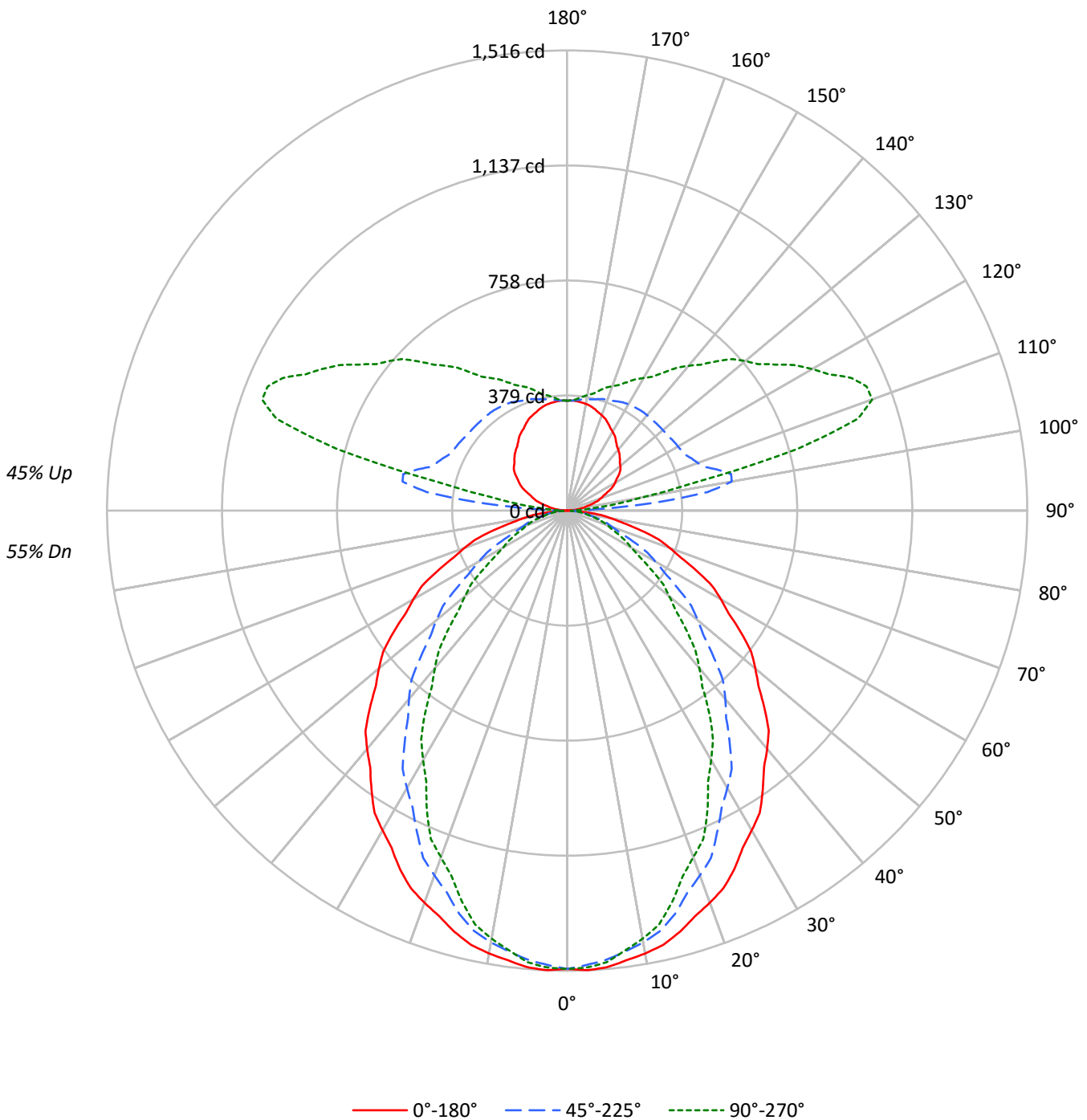
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 95 | 92 | 88 | 92 | 89 | 86 | 83 | 76 | 74 | 72 | 65 | 63 | 62 | 55 | 54 | 52 | 48 |
| 2 | 91 | 84 | 78 | 73 | 84 | 78 | 73 | 69 | 68 | 64 | 60 | 58 | 55 | 53 | 49 | 47 | 45 | 41 |
| 3 | 83 | 74 | 67 | 61 | 77 | 69 | 63 | 58 | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 41 | 39 | 35 |
| 4 | 77 | 66 | 58 | 52 | 71 | 62 | 55 | 50 | 54 | 48 | 44 | 46 | 42 | 39 | 39 | 36 | 34 | 31 |
| 5 | 70 | 59 | 51 | 45 | 65 | 55 | 48 | 43 | 48 | 43 | 39 | 42 | 38 | 34 | 36 | 33 | 30 | 27 |
| 6 | 65 | 53 | 45 | 40 | 60 | 50 | 43 | 38 | 44 | 38 | 34 | 38 | 34 | 30 | 33 | 29 | 27 | 24 |
| 7 | 60 | 48 | 40 | 35 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 27 | 24 | 21 |
| 8 | 56 | 44 | 36 | 31 | 52 | 41 | 35 | 30 | 37 | 31 | 27 | 32 | 28 | 24 | 28 | 24 | 22 | 19 |
| 9 | 52 | 40 | 33 | 28 | 49 | 38 | 31 | 27 | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 22 | 20 | 18 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 29 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 24 | 20 | 18 | 16 |

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: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.3 | 2.5 |
| 10°-20° | 388.1 | 6.9 |
| 20°-30° | 545.0 | 9.7 |
| 30°-40° | 594.3 | 10.6 |
| 40°-50° | 546.4 | 9.7 |
| 50°-60° | 429.2 | 7.6 |
| 60°-70° | 279.8 | 5.0 |
| 70°-80° | 144.3 | 2.6 |
| 80°-90° | 40.7 | 0.7 |
| 90°-100° | 144.9 | 2.6 |
| 100°-110° | 491.8 | 8.7 |
| 110°-120° | 522.5 | 9.3 |
| 120°-130° | 430.1 | 7.6 |
| 130°-140° | 345.4 | 6.1 |
| 140°-150° | 261.0 | 4.6 |
| 150°-160° | 183.4 | 3.3 |
| 160°-170° | 108.0 | 1.9 |
| 170°-180° | 35.1 | 0.6 |
| 0°-30° | 1074.4 | 19.1 |
| 0°-40° | 1668.7 | 29.6 |
| 0°-60° | 2644.3 | 47.0 |
| 0°-90° | 3109.1 | 55.2 |
| 90°-120° | 1159.2 | 20.6 |
| 90°-150° | 2195.7 | 39.0 |
| 90°-180° | 2522.0 | 44.8 |
| 0°-180° | 5631.4 | 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° | 1 | 9 | 24 | 23 | 23 | 4 |
| 95° | 24 | 60 | 273 | 103 | 80 | 26 |
| 105° | 85 | 128 | 516 | 923 | 786 | 90 |
| 115° | 150 | 189 | 432 | 892 | 1034 | 149 |
| 125° | 209 | 247 | 415 | 722 | 839 | 186 |
| 135° | 245 | 293 | 410 | 607 | 695 | 190 |
| 145° | 280 | 322 | 408 | 507 | 555 | 176 |
| 155° | 318 | 344 | 397 | 449 | 466 | 147 |
| 165° | 347 | 358 | 380 | 403 | 409 | 98 |
| 175° | 362 | 362 | 365 | 370 | 369 | 34 |
| 180° | 362 | 362 | 362 | 362 | 362 | |



TEST NUMBER: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

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° | 17.7 | 16.1 | 14.7 | 13.0 | 11.4 | 10.9 | 11.5 | 12.5 | 13.4 | 13.5 | 13.1 |
| 90° | 0.7 | 2.8 | 5.6 | 7.0 | 8.4 | 10.4 | 13.9 | 18.8 | 23.0 | 23.7 | 23.0 |
| 92.5° | 8.5 | 12.3 | 17.3 | 20.3 | 25.1 | 31.7 | 47.4 | 69.6 | 89.3 | 90.6 | 76.5 |
| 95° | 24.4 | 27.2 | 34.2 | 40.4 | 51.5 | 68.3 | 100.4 | 161.0 | 241.9 | 273.2 | 239.1 |
| 97.5° | 39.8 | 43.5 | 50.9 | 60.4 | 73.2 | 92.1 | 132.4 | 217.0 | 351.3 | 466.5 | 489.4 |
| 100° | 53.7 | 55.7 | 62.1 | 73.2 | 87.1 | 106.6 | 143.6 | 228.6 | 379.2 | 550.6 | 651.0 |
| 102.5° | 66.5 | 68.0 | 74.3 | 85.4 | 100.0 | 119.5 | 153.6 | 229.2 | 368.6 | 553.5 | 711.2 |
| 105° | 85.1 | 87.8 | 92.7 | 103.2 | 118.5 | 138.0 | 170.8 | 232.8 | 347.9 | 516.5 | 702.0 |
| 107.5° | 105.1 | 107.4 | 112.1 | 121.7 | 136.9 | 156.6 | 188.3 | 242.5 | 337.5 | 476.9 | 640.7 |
| 110° | 118.5 | 121.3 | 125.5 | 134.6 | 149.2 | 169.4 | 200.0 | 250.2 | 335.3 | 458.0 | 602.3 |



TEST NUMBER: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 130.7 | 133.6 | 138.3 | 146.8 | 160.9 | 181.6 | 211.2 | 258.6 | 335.8 | 445.7 | 575.5 |
| 115° | 149.9 | 153.4 | 157.6 | 165.9 | 179.9 | 198.7 | 228.6 | 271.2 | 338.8 | 432.2 | 542.3 |
| 117.5° | 169.7 | 172.5 | 176.6 | 184.0 | 197.4 | 217.0 | 244.7 | 284.5 | 343.8 | 425.6 | 521.4 |
| 120° | 181.9 | 184.8 | 188.9 | 195.2 | 209.1 | 228.6 | 255.8 | 293.5 | 347.1 | 421.7 | 510.2 |
| 122.5° | 193.7 | 195.9 | 200.0 | 206.9 | 220.8 | 240.9 | 266.4 | 301.3 | 351.1 | 419.5 | 500.8 |
| 125° | 209.1 | 211.2 | 215.3 | 223.7 | 237.7 | 257.2 | 282.3 | 313.7 | 356.9 | 415.4 | 487.2 |
| 127.5° | 221.4 | 224.2 | 230.1 | 239.2 | 252.6 | 272.7 | 297.1 | 325.2 | 362.9 | 413.0 | 474.7 |
| 130° | 228.6 | 231.4 | 238.4 | 248.2 | 262.1 | 281.6 | 306.0 | 332.5 | 367.4 | 412.0 | 466.4 |
| 132.5° | 235.3 | 238.7 | 246.2 | 256.5 | 271.0 | 290.5 | 313.8 | 339.7 | 371.8 | 411.4 | 459.7 |
| 135° | 245.4 | 248.2 | 256.5 | 267.0 | 283.0 | 302.6 | 324.9 | 349.2 | 377.1 | 410.5 | 450.3 |
| 137.5° | 254.9 | 258.2 | 266.5 | 277.7 | 293.6 | 311.7 | 333.8 | 356.5 | 381.8 | 410.5 | 443.7 |
| 140° | 262.1 | 264.8 | 273.2 | 284.4 | 299.7 | 317.9 | 338.8 | 360.3 | 384.1 | 409.8 | 439.9 |
| 142.5° | 269.3 | 271.6 | 279.4 | 290.5 | 305.3 | 322.4 | 342.7 | 363.7 | 385.8 | 409.8 | 436.0 |
| 145° | 280.2 | 283.0 | 290.0 | 300.4 | 314.3 | 329.7 | 348.6 | 368.0 | 387.5 | 408.5 | 430.8 |
| 147.5° | 291.9 | 294.0 | 300.7 | 310.3 | 321.9 | 335.6 | 353.3 | 370.4 | 388.2 | 406.0 | 425.5 |
| 150° | 299.7 | 301.8 | 307.4 | 316.5 | 326.9 | 339.5 | 355.5 | 371.5 | 387.5 | 404.3 | 421.0 |
| 152.5° | 307.6 | 308.5 | 314.1 | 322.0 | 331.9 | 343.4 | 357.8 | 372.1 | 386.5 | 401.5 | 417.1 |
| 155° | 318.5 | 319.2 | 323.4 | 331.1 | 338.8 | 349.2 | 361.1 | 372.9 | 384.8 | 396.6 | 409.8 |
| 157.5° | 327.8 | 328.4 | 331.8 | 338.5 | 344.6 | 353.4 | 363.5 | 372.9 | 381.6 | 391.6 | 403.1 |
| 160° | 333.9 | 334.6 | 337.3 | 343.0 | 348.6 | 356.1 | 364.5 | 372.9 | 379.9 | 388.3 | 398.1 |
| 162.5° | 340.0 | 339.6 | 342.4 | 346.9 | 351.9 | 357.8 | 365.2 | 372.4 | 378.3 | 385.5 | 393.5 |
| 165° | 347.1 | 346.4 | 347.9 | 352.0 | 355.5 | 359.7 | 366.0 | 370.9 | 375.1 | 379.9 | 386.2 |
| 167.5° | 353.0 | 352.1 | 353.4 | 356.1 | 358.6 | 361.2 | 365.8 | 369.9 | 371.8 | 375.1 | 378.9 |
| 170° | 356.9 | 355.5 | 356.1 | 358.3 | 359.7 | 361.8 | 365.2 | 368.7 | 370.1 | 372.2 | 375.1 |
| 172.5° | 359.1 | 358.3 | 357.8 | 360.0 | 360.8 | 362.3 | 364.7 | 367.0 | 367.9 | 368.9 | 371.1 |
| 175° | 361.8 | 361.1 | 360.3 | 361.8 | 361.8 | 362.5 | 363.8 | 365.2 | 364.5 | 365.2 | 366.0 |
| 177.5° | 363.0 | 361.9 | 361.3 | 362.5 | 362.5 | 362.5 | 363.0 | 364.2 | 363.0 | 362.5 | 363.0 |
| 180° | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 |



TEST NUMBER: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

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° | 12.8 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| 90° | 22.3 | 21.0 | 22.3 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| 92.5° | 60.8 | 52.2 | 46.3 | 42.0 | 41.4 | 39.1 | 39.8 | 38.6 |
| 95° | 182.6 | 140.1 | 110.8 | 95.5 | 86.4 | 80.9 | 78.7 | 79.5 |
| 97.5° | 426.1 | 348.7 | 273.2 | 222.9 | 189.6 | 172.5 | 162.3 | 156.4 |
| 100° | 636.4 | 550.0 | 454.5 | 370.1 | 312.3 | 282.3 | 262.1 | 249.5 |
| 102.5° | 774.2 | 754.7 | 684.7 | 595.4 | 532.5 | 481.3 | 456.1 | 439.2 |
| 105° | 846.9 | 925.7 | 934.8 | 911.8 | 868.5 | 825.3 | 795.3 | 785.6 |
| 107.5° | 794.5 | 913.1 | 985.6 | 1019.4 | 1024.8 | 1022.4 | 1016.5 | 1003.4 |
| 110° | 749.3 | 874.1 | 963.3 | 1020.5 | 1050.4 | 1063.7 | 1070.0 | 1069.3 |



TEST NUMBER: P331752-940

CATALOG NUMBER: S122RDIP-S1005D725U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 708.1 | 827.8 | 923.2 | 988.7 | 1030.4 | 1052.6 | 1064.4 | 1068.2 |
| 115° | 657.3 | 764.6 | 856.0 | 927.7 | 977.2 | 1009.3 | 1027.4 | 1033.8 |
| 117.5° | 619.1 | 713.4 | 796.2 | 863.5 | 914.0 | 947.9 | 967.0 | 972.2 |
| 120° | 600.1 | 686.6 | 760.5 | 823.9 | 872.7 | 905.4 | 925.7 | 932.6 |
| 122.5° | 585.1 | 664.3 | 734.2 | 791.6 | 835.4 | 867.5 | 885.6 | 891.4 |
| 125° | 563.2 | 635.0 | 696.3 | 748.6 | 789.1 | 815.6 | 832.9 | 838.6 |
| 127.5° | 541.6 | 606.5 | 664.4 | 712.7 | 748.0 | 772.8 | 787.8 | 792.3 |
| 130° | 527.6 | 587.6 | 642.7 | 688.7 | 722.8 | 746.5 | 760.5 | 766.1 |
| 132.5° | 514.2 | 569.8 | 620.4 | 663.6 | 697.2 | 720.9 | 733.7 | 738.7 |
| 135° | 495.6 | 541.6 | 587.6 | 626.6 | 656.7 | 679.7 | 692.1 | 695.0 |
| 137.5° | 480.7 | 519.2 | 555.7 | 589.7 | 617.1 | 636.9 | 647.8 | 652.0 |
| 140° | 471.2 | 504.7 | 536.7 | 567.4 | 589.7 | 607.8 | 618.3 | 622.5 |
| 142.5° | 463.4 | 491.9 | 519.4 | 545.1 | 566.3 | 582.7 | 592.1 | 592.9 |
| 145° | 452.4 | 475.4 | 497.0 | 517.2 | 534.0 | 545.8 | 552.8 | 554.8 |
| 147.5° | 443.9 | 462.0 | 478.8 | 493.7 | 507.5 | 516.9 | 521.7 | 522.9 |
| 150° | 437.7 | 453.1 | 467.7 | 480.3 | 490.7 | 499.1 | 503.3 | 504.0 |
| 152.5° | 431.6 | 445.9 | 458.3 | 469.1 | 477.3 | 484.6 | 487.7 | 487.8 |
| 155° | 423.1 | 434.3 | 444.7 | 452.4 | 460.0 | 464.9 | 467.7 | 466.4 |
| 157.5° | 413.2 | 422.6 | 431.3 | 437.3 | 442.7 | 446.8 | 448.1 | 448.1 |
| 160° | 407.1 | 414.7 | 422.4 | 427.3 | 432.2 | 435.7 | 436.3 | 436.3 |
| 162.5° | 400.9 | 407.5 | 414.0 | 417.9 | 422.7 | 425.1 | 425.8 | 425.2 |
| 165° | 391.7 | 396.6 | 401.5 | 404.3 | 407.1 | 409.8 | 409.8 | 409.2 |
| 167.5° | 383.0 | 386.7 | 390.0 | 392.6 | 393.9 | 395.4 | 395.2 | 394.4 |
| 170° | 378.5 | 380.6 | 383.3 | 384.8 | 385.5 | 387.5 | 386.8 | 385.5 |
| 172.5° | 373.4 | 375.1 | 377.3 | 378.1 | 378.8 | 379.8 | 379.1 | 378.3 |
| 175° | 368.0 | 368.7 | 369.4 | 370.1 | 370.1 | 370.9 | 370.1 | 368.7 |
| 177.5° | 364.2 | 364.2 | 364.7 | 364.7 | 364.7 | 364.7 | 364.2 | 363.0 |
| 180° | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 | 362.5 |

(END OF REPORT)