

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: P332304

Luminaire Tested: **S123RDIP-S775D365U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332304
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: S123RDIP-S775D365U835-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164.3 lumens
Efficiency: N/A
Efficacy: 119.0 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-Direct

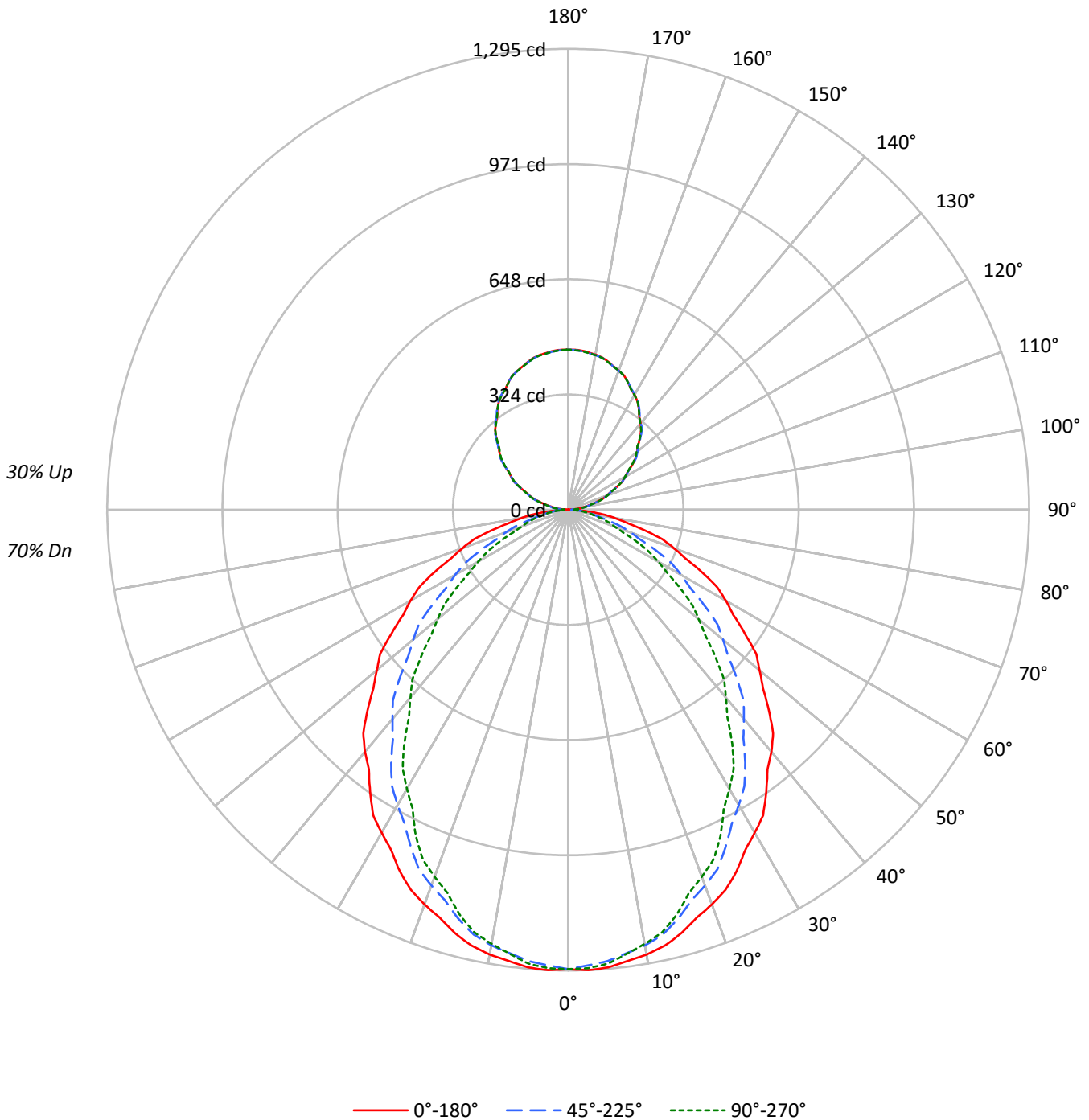
Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 75 | 75 | 75 | 70 | | | | | 70 | | | |
| 1 | 103 | 98 | 95 | 91 | 97 | 93 | 90 | 87 | 84 | 81 | 79 | 75 | 73 | 71 | 67 | 65 | 64 | 60 | | | | | 60 | | | |
| 2 | 94 | 87 | 80 | 75 | 89 | 82 | 77 | 72 | 74 | 70 | 66 | 66 | 63 | 60 | 59 | 57 | 55 | 51 | | | | | 51 | | | |
| 3 | 86 | 77 | 69 | 63 | 81 | 73 | 66 | 61 | 66 | 60 | 56 | 59 | 55 | 51 | 53 | 50 | 47 | 44 | | | | | 44 | | | |
| 4 | 79 | 68 | 60 | 54 | 74 | 65 | 58 | 52 | 59 | 53 | 48 | 53 | 48 | 44 | 48 | 44 | 41 | 38 | | | | | 38 | | | |
| 5 | 73 | 61 | 53 | 47 | 69 | 58 | 51 | 45 | 53 | 47 | 42 | 48 | 43 | 39 | 43 | 39 | 36 | 33 | | | | | 33 | | | |
| 6 | 67 | 55 | 47 | 41 | 63 | 52 | 45 | 40 | 48 | 42 | 37 | 43 | 38 | 34 | 39 | 35 | 32 | 29 | | | | | 29 | | | |
| 7 | 62 | 50 | 42 | 36 | 59 | 48 | 40 | 35 | 44 | 37 | 33 | 40 | 34 | 31 | 36 | 32 | 28 | 26 | | | | | 26 | | | |
| 8 | 58 | 46 | 38 | 32 | 55 | 44 | 36 | 31 | 40 | 34 | 29 | 36 | 31 | 27 | 33 | 29 | 26 | 23 | | | | | 23 | | | |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 37 | 31 | 26 | 34 | 28 | 25 | 31 | 26 | 23 | 21 | | | | | 21 | | | |
| 10 | 51 | 38 | 31 | 26 | 48 | 37 | 30 | 26 | 34 | 28 | 24 | 31 | 26 | 23 | 28 | 24 | 21 | 19 | | | | | 19 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13897 | 13897 | 13897 |
| 5° | 13950 | 13758 | 13837 |
| 10° | 13871 | 13585 | 13539 |
| 15° | 13722 | 13266 | 13127 |
| 20° | 13518 | 12869 | 12569 |
| 25° | 13307 | 12423 | 12025 |
| 30° | 13027 | 11908 | 11257 |
| 35° | 12741 | 11393 | 10553 |
| 40° | 12476 | 10784 | 9681 |
| 45° | 12129 | 10185 | 8894 |
| 50° | 11747 | 9503 | 8013 |
| 55° | 11357 | 8724 | 7191 |
| 60° | 11001 | 7890 | 6288 |
| 65° | 10534 | 6986 | 5387 |
| 70° | 9951 | 5866 | 4349 |
| 75° | 9100 | 4616 | 4092 |
| 80° | 8114 | 4091 | 3763 |
| 85° | 6854 | 3619 | 3359 |



TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.2 | 2.9 |
| 10°-20° | 337.3 | 8.1 |
| 20°-30° | 485.7 | 11.7 |
| 30°-40° | 547.1 | 13.1 |
| 40°-50° | 523.4 | 12.6 |
| 50°-60° | 428.6 | 10.3 |
| 60°-70° | 289.2 | 6.9 |
| 70°-80° | 145.5 | 3.5 |
| 80°-90° | 39.8 | 1.0 |
| 90°-100° | 29.3 | 0.7 |
| 100°-110° | 87.7 | 2.1 |
| 110°-120° | 149.2 | 3.6 |
| 120°-130° | 196.2 | 4.7 |
| 130°-140° | 220.6 | 5.3 |
| 140°-150° | 216.8 | 5.2 |
| 150°-160° | 182.5 | 4.4 |
| 160°-170° | 121.5 | 2.9 |
| 170°-180° | 42.5 | 1.0 |
| 0°-30° | 944.3 | 22.7 |
| 0°-40° | 1491.4 | 35.8 |
| 0°-60° | 2443.4 | 58.7 |
| 0°-90° | 2917.9 | 70.1 |
| 90°-120° | 266.2 | 6.4 |
| 90°-150° | 899.9 | 21.6 |
| 90°-180° | 1246.0 | 29.9 |
| 0°-180° | 4164.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1291 | 1291 | 1291 | 1291 | 1291 | |
| 5° | 1291 | 1285 | 1273 | 1282 | 1281 | 122 |
| 15° | 1231 | 1219 | 1190 | 1185 | 1178 | 347 |
| 25° | 1120 | 1093 | 1046 | 1025 | 1012 | 515 |
| 35° | 970 | 930 | 867 | 823 | 803 | 607 |
| 45° | 797 | 748 | 669 | 611 | 584 | 615 |
| 55° | 605 | 552 | 465 | 406 | 383 | 542 |
| 65° | 414 | 355 | 274 | 225 | 212 | 409 |
| 75° | 219 | 168 | 111 | 101 | 98 | 233 |
| 85° | 56 | 34 | 29 | 27 | 27 | 62 |
| 90° | 0 | 4 | 8 | 10 | 11 | 4 |
| 95° | 21 | 23 | 26 | 28 | 28 | 23 |
| 105° | 80 | 80 | 83 | 83 | 84 | 85 |
| 115° | 150 | 151 | 150 | 151 | 150 | 149 |
| 125° | 220 | 221 | 220 | 219 | 217 | 196 |
| 135° | 285 | 287 | 287 | 286 | 285 | 220 |
| 145° | 346 | 347 | 348 | 347 | 346 | 216 |
| 155° | 396 | 396 | 396 | 398 | 395 | 182 |
| 165° | 432 | 430 | 430 | 432 | 430 | 122 |
| 175° | 449 | 448 | 447 | 449 | 447 | 43 |
| 180° | 450 | 450 | 450 | 450 | 450 | |



TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 |
| 2.5° | 1295.2 | 1294.5 | 1293.7 | 1293.0 | 1292.3 | 1290.8 | 1288.5 | 1286.3 | 1284.1 | 1281.8 | 1283.9 |
| 5° | 1291.1 | 1289.9 | 1288.7 | 1287.6 | 1286.4 | 1284.4 | 1281.6 | 1278.8 | 1276.0 | 1273.3 | 1275.3 |
| 7.5° | 1279.1 | 1277.9 | 1276.6 | 1275.3 | 1274.1 | 1271.6 | 1268.0 | 1264.4 | 1260.8 | 1257.1 | 1258.3 |
| 10° | 1269.1 | 1267.4 | 1265.8 | 1264.2 | 1262.5 | 1259.6 | 1255.4 | 1251.3 | 1247.1 | 1242.9 | 1243.1 |
| 12.5° | 1254.8 | 1253.0 | 1251.2 | 1249.4 | 1247.6 | 1244.1 | 1239.0 | 1233.9 | 1228.7 | 1223.6 | 1223.5 |
| 15° | 1231.4 | 1228.8 | 1226.2 | 1223.7 | 1221.1 | 1216.6 | 1210.1 | 1203.6 | 1197.0 | 1190.5 | 1189.4 |
| 17.5° | 1201.8 | 1198.9 | 1195.9 | 1192.9 | 1189.9 | 1184.3 | 1176.0 | 1167.7 | 1159.4 | 1151.2 | 1148.7 |
| 20° | 1180.1 | 1176.3 | 1172.6 | 1168.9 | 1165.2 | 1158.9 | 1150.0 | 1141.2 | 1132.4 | 1123.5 | 1120.5 |
| 22.5° | 1155.8 | 1151.5 | 1147.2 | 1142.9 | 1138.6 | 1131.8 | 1122.4 | 1113.0 | 1103.6 | 1094.2 | 1090.4 |
| 25° | 1120.4 | 1114.6 | 1108.7 | 1102.9 | 1097.1 | 1088.8 | 1078.1 | 1067.4 | 1056.7 | 1046.0 | 1041.1 |
| 27.5° | 1077.4 | 1071.0 | 1064.6 | 1058.2 | 1051.8 | 1042.6 | 1030.7 | 1018.8 | 1006.8 | 994.9 | 988.1 |
| 30° | 1048.1 | 1041.1 | 1034.2 | 1027.2 | 1020.2 | 1010.2 | 997.2 | 984.1 | 971.1 | 958.1 | 950.2 |
| 32.5° | 1018.8 | 1010.9 | 1003.0 | 995.1 | 987.2 | 976.3 | 962.5 | 948.8 | 935.0 | 921.2 | 912.6 |
| 35° | 969.6 | 961.2 | 952.8 | 944.5 | 936.1 | 924.7 | 910.3 | 895.8 | 881.4 | 867.0 | 857.0 |
| 37.5° | 919.8 | 910.4 | 901.1 | 891.8 | 882.5 | 870.2 | 854.8 | 839.4 | 824.0 | 808.6 | 797.2 |
| 40° | 887.9 | 877.7 | 867.4 | 857.2 | 847.0 | 833.6 | 817.1 | 800.6 | 784.0 | 767.5 | 755.4 |
| 42.5° | 851.9 | 841.7 | 831.4 | 821.2 | 811.0 | 797.3 | 780.2 | 763.1 | 746.1 | 729.0 | 715.8 |
| 45° | 796.8 | 786.4 | 775.9 | 765.4 | 754.9 | 740.8 | 722.8 | 704.9 | 687.0 | 669.1 | 655.8 |
| 47.5° | 741.8 | 730.3 | 718.8 | 707.3 | 695.8 | 681.1 | 663.2 | 645.2 | 627.3 | 609.4 | 595.0 |
| 50° | 701.5 | 690.6 | 679.7 | 668.7 | 657.8 | 642.9 | 624.1 | 605.2 | 586.4 | 567.5 | 553.1 |
| 52.5° | 665.5 | 653.7 | 641.8 | 629.9 | 618.1 | 602.8 | 584.1 | 565.5 | 546.8 | 528.1 | 513.2 |
| 55° | 605.2 | 593.8 | 582.4 | 571.0 | 559.6 | 544.0 | 524.2 | 504.5 | 484.7 | 464.9 | 451.4 |
| 57.5° | 549.5 | 537.1 | 524.7 | 512.2 | 499.8 | 483.7 | 463.8 | 443.9 | 424.0 | 404.2 | 391.4 |
| 60° | 511.0 | 498.2 | 485.4 | 472.6 | 459.8 | 443.7 | 424.4 | 405.1 | 385.8 | 366.5 | 353.9 |
| 62.5° | 472.4 | 459.6 | 446.8 | 434.0 | 421.3 | 405.2 | 385.9 | 366.6 | 347.3 | 327.9 | 316.1 |
| 65° | 413.6 | 400.8 | 388.0 | 375.2 | 362.4 | 346.9 | 328.8 | 310.6 | 292.5 | 274.3 | 262.9 |
| 67.5° | 354.8 | 341.8 | 328.9 | 315.9 | 303.0 | 287.8 | 270.4 | 253.0 | 235.6 | 218.2 | 209.7 |
| 70° | 316.2 | 303.7 | 291.1 | 278.5 | 266.0 | 251.5 | 235.2 | 219.0 | 202.7 | 186.4 | 178.2 |
| 72.5° | 277.7 | 265.3 | 252.9 | 240.5 | 228.2 | 214.6 | 199.8 | 185.0 | 170.2 | 155.4 | 148.7 |
| 75° | 218.8 | 207.7 | 196.5 | 185.3 | 174.2 | 162.2 | 149.4 | 136.6 | 123.8 | 111.0 | 108.7 |
| 77.5° | 165.2 | 155.1 | 145.0 | 134.9 | 124.8 | 115.7 | 107.4 | 99.2 | 91.0 | 82.7 | 81.5 |
| 80° | 130.9 | 121.3 | 111.8 | 102.3 | 92.7 | 85.5 | 80.6 | 75.7 | 70.9 | 66.0 | 65.3 |
| 82.5° | 98.2 | 90.0 | 81.7 | 73.5 | 65.3 | 60.0 | 57.7 | 55.4 | 53.2 | 50.9 | 50.2 |
| 85° | 55.5 | 50.4 | 45.3 | 40.1 | 35.0 | 32.1 | 31.4 | 30.7 | 30.0 | 29.3 | 28.9 |
| 87.5° | 20.2 | 18.3 | 16.4 | 14.5 | 12.6 | 11.8 | 12.0 | 12.2 | 12.4 | 12.6 | 12.5 |
| 90° | 0.4 | 1.1 | 1.9 | 2.7 | 3.5 | 4.4 | 5.4 | 6.4 | 7.5 | 8.5 | 8.8 |
| 92.5° | 8.6 | 9.1 | 9.6 | 10.2 | 10.7 | 11.2 | 11.8 | 12.4 | 13.0 | 13.6 | 13.8 |
| 95° | 20.9 | 21.4 | 21.9 | 22.5 | 23.0 | 23.6 | 24.3 | 24.9 | 25.5 | 26.2 | 26.5 |
| 97.5° | 37.0 | 37.4 | 37.9 | 38.3 | 38.7 | 39.1 | 39.6 | 40.0 | 40.5 | 40.9 | 41.3 |
| 100° | 48.1 | 48.5 | 49.0 | 49.5 | 49.9 | 50.4 | 50.8 | 51.2 | 51.6 | 51.9 | 52.2 |
| 102.5° | 60.8 | 61.1 | 61.3 | 61.6 | 61.9 | 62.3 | 62.8 | 63.4 | 63.9 | 64.4 | 64.6 |
| 105° | 79.5 | 79.7 | 79.8 | 80.0 | 80.1 | 80.6 | 81.3 | 82.0 | 82.7 | 83.4 | 83.4 |
| 107.5° | 101.3 | 101.4 | 101.5 | 101.6 | 101.7 | 101.8 | 102.1 | 102.4 | 102.7 | 103.0 | 103.2 |
| 110° | 114.9 | 115.0 | 115.2 | 115.3 | 115.5 | 115.6 | 115.8 | 116.0 | 116.1 | 116.3 | 116.6 |



TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 129.0 | 129.1 | 129.2 | 129.3 | 129.4 | 129.4 | 129.5 | 129.5 | 129.5 | 129.6 | 129.9 |
| 115° | 150.2 | 150.4 | 150.7 | 150.9 | 151.1 | 151.2 | 151.0 | 150.9 | 150.7 | 150.5 | 150.6 |
| 117.5° | 171.5 | 171.7 | 171.9 | 172.0 | 172.2 | 172.1 | 171.9 | 171.7 | 171.5 | 171.3 | 171.3 |
| 120° | 184.8 | 185.3 | 185.8 | 186.2 | 186.7 | 186.7 | 186.4 | 186.0 | 185.6 | 185.2 | 185.1 |
| 122.5° | 198.7 | 199.0 | 199.4 | 199.7 | 200.1 | 200.1 | 199.9 | 199.7 | 199.5 | 199.3 | 199.1 |
| 125° | 219.8 | 220.0 | 220.3 | 220.5 | 220.8 | 220.8 | 220.6 | 220.5 | 220.3 | 220.2 | 219.8 |
| 127.5° | 239.3 | 239.8 | 240.3 | 240.8 | 241.3 | 241.5 | 241.3 | 241.1 | 241.0 | 240.8 | 240.4 |
| 130° | 252.3 | 252.9 | 253.6 | 254.2 | 254.8 | 255.0 | 254.8 | 254.6 | 254.3 | 254.1 | 253.8 |
| 132.5° | 265.3 | 266.0 | 266.6 | 267.2 | 267.8 | 268.1 | 267.9 | 267.7 | 267.5 | 267.4 | 267.0 |
| 135° | 285.2 | 285.7 | 286.1 | 286.6 | 287.1 | 287.3 | 287.2 | 287.1 | 287.0 | 287.0 | 286.6 |
| 137.5° | 303.6 | 304.0 | 304.3 | 304.7 | 305.1 | 305.4 | 305.6 | 305.8 | 306.0 | 306.2 | 305.9 |
| 140° | 316.3 | 316.7 | 317.1 | 317.5 | 317.9 | 318.1 | 318.2 | 318.2 | 318.3 | 318.4 | 318.3 |
| 142.5° | 327.9 | 328.3 | 328.7 | 329.1 | 329.4 | 329.7 | 329.9 | 330.0 | 330.1 | 330.3 | 330.2 |
| 145° | 346.0 | 346.1 | 346.3 | 346.4 | 346.6 | 346.8 | 347.0 | 347.3 | 347.5 | 347.7 | 347.7 |
| 147.5° | 361.8 | 362.1 | 362.4 | 362.7 | 362.9 | 363.2 | 363.4 | 363.6 | 363.8 | 364.1 | 364.1 |
| 150° | 372.8 | 373.0 | 373.1 | 373.3 | 373.5 | 373.6 | 373.8 | 373.9 | 374.1 | 374.2 | 374.2 |
| 152.5° | 381.9 | 382.1 | 382.3 | 382.5 | 382.8 | 382.9 | 383.0 | 383.1 | 383.2 | 383.3 | 383.4 |
| 155° | 396.2 | 396.2 | 396.2 | 396.2 | 396.2 | 396.2 | 396.3 | 396.3 | 396.4 | 396.5 | 396.8 |
| 157.5° | 408.3 | 408.2 | 408.1 | 408.0 | 407.9 | 407.9 | 408.0 | 408.0 | 408.1 | 408.2 | 408.5 |
| 160° | 415.9 | 415.8 | 415.6 | 415.5 | 415.3 | 415.2 | 415.2 | 415.2 | 415.2 | 415.2 | 415.6 |
| 162.5° | 422.7 | 422.5 | 422.3 | 422.1 | 421.8 | 421.8 | 421.8 | 421.9 | 422.0 | 422.0 | 422.4 |
| 165° | 431.5 | 431.3 | 431.0 | 430.8 | 430.5 | 430.4 | 430.4 | 430.4 | 430.4 | 430.4 | 430.9 |
| 167.5° | 438.5 | 438.2 | 437.9 | 437.5 | 437.2 | 437.1 | 437.2 | 437.2 | 437.3 | 437.4 | 437.8 |
| 170° | 442.4 | 442.1 | 441.8 | 441.5 | 441.2 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.6 |
| 172.5° | 445.6 | 445.2 | 444.9 | 444.6 | 444.3 | 444.1 | 444.1 | 444.1 | 444.1 | 444.1 | 444.6 |
| 175° | 448.8 | 448.5 | 448.2 | 447.9 | 447.6 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.9 |
| 177.5° | 450.1 | 449.9 | 449.6 | 449.4 | 449.1 | 449.0 | 449.0 | 449.0 | 449.0 | 449.0 | 449.4 |
| 180° | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |



TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 | 1291.1 |
| 2.5° | 1285.9 | 1288.0 | 1290.0 | 1290.9 | 1290.5 | 1290.1 | 1289.7 | 1289.4 |
| 5° | 1277.4 | 1279.5 | 1281.6 | 1282.4 | 1282.0 | 1281.5 | 1281.0 | 1280.6 |
| 7.5° | 1259.5 | 1260.6 | 1261.8 | 1262.0 | 1261.2 | 1260.4 | 1259.6 | 1258.8 |
| 10° | 1243.4 | 1243.6 | 1243.8 | 1243.4 | 1242.2 | 1241.0 | 1239.9 | 1238.7 |
| 12.5° | 1223.3 | 1223.2 | 1223.1 | 1222.3 | 1221.0 | 1219.6 | 1218.3 | 1216.9 |
| 15° | 1188.2 | 1187.0 | 1185.9 | 1184.5 | 1182.9 | 1181.2 | 1179.6 | 1178.0 |
| 17.5° | 1146.2 | 1143.8 | 1141.3 | 1138.9 | 1136.4 | 1134.0 | 1131.6 | 1129.2 |
| 20° | 1117.5 | 1114.4 | 1111.4 | 1108.5 | 1105.7 | 1102.9 | 1100.1 | 1097.3 |
| 22.5° | 1086.7 | 1082.9 | 1079.1 | 1075.9 | 1073.3 | 1070.7 | 1068.1 | 1065.5 |
| 25° | 1036.3 | 1031.4 | 1026.5 | 1022.8 | 1020.2 | 1017.6 | 1015.1 | 1012.5 |
| 27.5° | 981.3 | 974.6 | 967.8 | 962.4 | 958.5 | 954.6 | 950.7 | 946.8 |
| 30° | 942.3 | 934.3 | 926.4 | 920.6 | 916.9 | 913.2 | 909.4 | 905.7 |
| 32.5° | 903.9 | 895.3 | 886.6 | 880.3 | 876.4 | 872.5 | 868.6 | 864.7 |
| 35° | 847.0 | 837.0 | 827.0 | 819.9 | 815.7 | 811.5 | 807.3 | 803.1 |
| 37.5° | 785.8 | 774.5 | 763.1 | 754.9 | 749.7 | 744.5 | 739.4 | 734.2 |
| 40° | 743.3 | 731.2 | 719.1 | 710.4 | 705.0 | 699.7 | 694.3 | 689.0 |
| 42.5° | 702.5 | 689.3 | 676.1 | 667.1 | 662.3 | 657.5 | 652.7 | 647.9 |
| 45° | 642.6 | 629.3 | 616.0 | 606.6 | 601.0 | 595.4 | 589.9 | 584.3 |
| 47.5° | 580.5 | 566.1 | 551.7 | 542.0 | 537.0 | 532.0 | 527.1 | 522.1 |
| 50° | 538.7 | 524.2 | 509.8 | 499.9 | 494.6 | 489.2 | 483.9 | 478.5 |
| 52.5° | 498.2 | 483.2 | 468.2 | 458.3 | 453.5 | 448.7 | 443.9 | 439.1 |
| 55° | 437.9 | 424.4 | 410.9 | 401.8 | 397.2 | 392.5 | 387.9 | 383.2 |
| 57.5° | 378.7 | 365.9 | 353.2 | 344.8 | 340.9 | 336.9 | 332.9 | 329.0 |
| 60° | 341.3 | 328.8 | 316.2 | 308.0 | 304.0 | 300.0 | 296.1 | 292.1 |
| 62.5° | 304.3 | 292.5 | 280.7 | 272.7 | 268.5 | 264.4 | 260.3 | 256.1 |
| 65° | 251.5 | 240.1 | 228.7 | 221.7 | 219.2 | 216.6 | 214.1 | 211.5 |
| 67.5° | 201.2 | 192.7 | 184.1 | 178.5 | 175.8 | 173.0 | 170.3 | 167.5 |
| 70° | 170.1 | 161.9 | 153.8 | 148.5 | 145.9 | 143.3 | 140.8 | 138.2 |
| 72.5° | 142.1 | 135.4 | 128.8 | 124.9 | 123.8 | 122.8 | 121.7 | 120.6 |
| 75° | 106.3 | 104.0 | 101.7 | 100.3 | 99.8 | 99.4 | 98.9 | 98.4 |
| 77.5° | 80.2 | 78.9 | 77.7 | 76.8 | 76.4 | 75.9 | 75.4 | 75.0 |
| 80° | 64.6 | 63.9 | 63.2 | 62.6 | 62.1 | 61.7 | 61.2 | 60.7 |
| 82.5° | 49.5 | 48.8 | 48.1 | 47.7 | 47.6 | 47.5 | 47.4 | 47.3 |
| 85° | 28.4 | 27.9 | 27.5 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 |
| 87.5° | 12.3 | 12.2 | 12.1 | 12.0 | 11.8 | 11.6 | 11.5 | 11.3 |
| 90° | 9.1 | 9.4 | 9.7 | 10.0 | 10.1 | 10.3 | 10.4 | 10.6 |
| 92.5° | 14.1 | 14.3 | 14.6 | 14.7 | 14.6 | 14.5 | 14.4 | 14.3 |
| 95° | 26.8 | 27.1 | 27.4 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 97.5° | 41.6 | 42.0 | 42.4 | 42.5 | 42.5 | 42.5 | 42.4 | 42.4 |
| 100° | 52.4 | 52.7 | 52.9 | 53.1 | 53.2 | 53.4 | 53.6 | 53.7 |
| 102.5° | 64.9 | 65.1 | 65.3 | 65.4 | 65.4 | 65.4 | 65.3 | 65.3 |
| 105° | 83.4 | 83.4 | 83.4 | 83.5 | 83.6 | 83.8 | 84.0 | 84.1 |
| 107.5° | 103.5 | 103.7 | 104.0 | 104.1 | 104.0 | 103.9 | 103.8 | 103.7 |
| 110° | 116.9 | 117.2 | 117.5 | 117.6 | 117.4 | 117.3 | 117.1 | 117.0 |



TEST NUMBER: P332304

CATALOG NUMBER: S123RDIP-S775D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 130.3 | 130.7 | 131.1 | 131.2 | 131.2 | 131.2 | 131.1 | 131.1 |
| 115° | 150.7 | 150.8 | 150.9 | 150.9 | 150.8 | 150.7 | 150.6 | 150.5 |
| 117.5° | 171.3 | 171.3 | 171.3 | 171.1 | 170.9 | 170.7 | 170.5 | 170.3 |
| 120° | 185.0 | 184.9 | 184.9 | 184.7 | 184.6 | 184.4 | 184.3 | 184.1 |
| 122.5° | 198.9 | 198.7 | 198.5 | 198.3 | 198.1 | 197.8 | 197.6 | 197.4 |
| 125° | 219.5 | 219.2 | 218.9 | 218.6 | 218.3 | 218.0 | 217.6 | 217.3 |
| 127.5° | 239.9 | 239.5 | 239.0 | 238.6 | 238.3 | 237.9 | 237.6 | 237.2 |
| 130° | 253.5 | 253.1 | 252.8 | 252.4 | 251.9 | 251.3 | 250.8 | 250.2 |
| 132.5° | 266.6 | 266.2 | 265.9 | 265.5 | 265.0 | 264.6 | 264.2 | 263.8 |
| 135° | 286.3 | 286.0 | 285.7 | 285.5 | 285.3 | 285.1 | 285.0 | 284.8 |
| 137.5° | 305.6 | 305.3 | 304.9 | 304.6 | 304.3 | 304.0 | 303.7 | 303.4 |
| 140° | 318.2 | 318.2 | 318.1 | 317.8 | 317.2 | 316.7 | 316.1 | 315.6 |
| 142.5° | 330.1 | 330.0 | 330.0 | 329.7 | 329.3 | 328.9 | 328.4 | 328.0 |
| 145° | 347.6 | 347.5 | 347.4 | 347.2 | 346.9 | 346.6 | 346.3 | 346.0 |
| 147.5° | 364.1 | 364.1 | 364.1 | 363.8 | 363.4 | 362.9 | 362.4 | 361.9 |
| 150° | 374.2 | 374.2 | 374.2 | 374.0 | 373.5 | 373.1 | 372.6 | 372.1 |
| 152.5° | 383.5 | 383.7 | 383.8 | 383.6 | 383.2 | 382.8 | 382.4 | 382.0 |
| 155° | 397.1 | 397.4 | 397.8 | 397.6 | 397.1 | 396.5 | 396.0 | 395.4 |
| 157.5° | 408.8 | 409.2 | 409.5 | 409.4 | 409.0 | 408.6 | 408.1 | 407.7 |
| 160° | 416.0 | 416.4 | 416.8 | 416.8 | 416.5 | 416.2 | 415.9 | 415.6 |
| 162.5° | 422.8 | 423.2 | 423.6 | 423.5 | 423.0 | 422.5 | 422.0 | 421.5 |
| 165° | 431.4 | 431.8 | 432.3 | 432.3 | 431.7 | 431.2 | 430.6 | 430.1 |
| 167.5° | 438.3 | 438.8 | 439.3 | 439.3 | 438.8 | 438.3 | 437.8 | 437.4 |
| 170° | 442.1 | 442.7 | 443.2 | 443.2 | 442.7 | 442.1 | 441.6 | 441.0 |
| 172.5° | 445.1 | 445.6 | 446.1 | 446.1 | 445.5 | 445.0 | 444.4 | 443.9 |
| 175° | 448.3 | 448.8 | 449.3 | 449.2 | 448.7 | 448.1 | 447.6 | 447.0 |
| 177.5° | 449.8 | 450.1 | 450.5 | 450.5 | 450.1 | 449.6 | 449.2 | 448.7 |
| 180° | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |

(END OF REPORT)