

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: P331704

Luminaire Tested: **S122RDIP-S675D1080U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331704
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-S675D1080U835-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6529.0 lumens
Efficiency: N/A
Efficacy: 114.7 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-Indirect

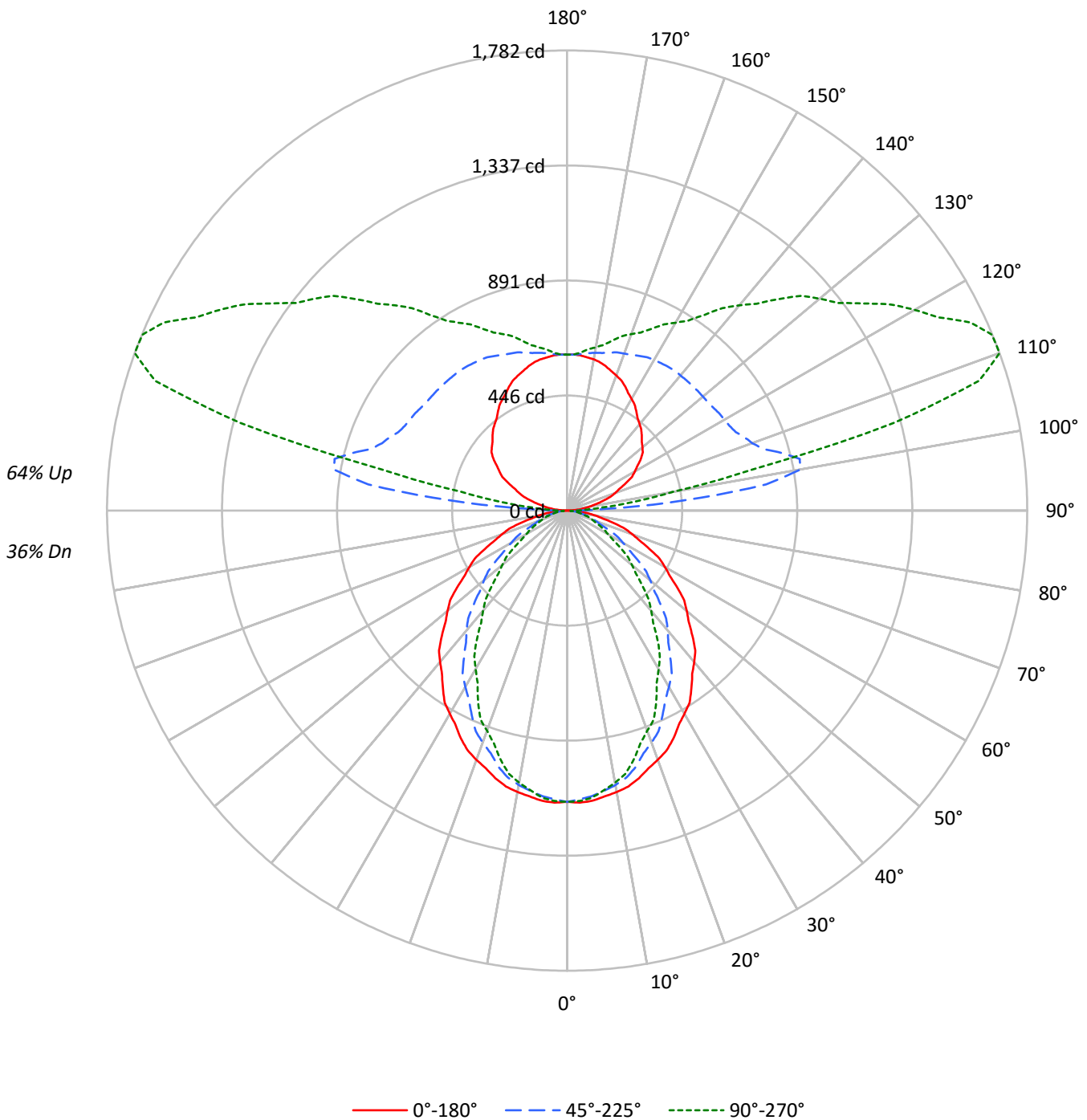
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 43 | 43 | 43 | 36 | | | | | | | | | | | | | | | | | | | |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 38 | 38 | 37 | 31 | | | | | | | | | | | | | | | | | | | |
| 2 | 87 | 80 | 74 | 69 | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 34 | 33 | 32 | 26 | | | | | | | | | | | | | | | | | | | |
| 3 | 79 | 70 | 63 | 58 | 71 | 64 | 58 | 53 | 52 | 48 | 44 | 41 | 38 | 36 | 31 | 29 | 27 | 23 | | | | | | | | | | | | | | | | | | | |
| 4 | 73 | 62 | 55 | 49 | 65 | 57 | 50 | 45 | 46 | 42 | 38 | 37 | 33 | 31 | 28 | 25 | 24 | 20 | | | | | | | | | | | | | | | | | | | |
| 5 | 67 | 56 | 48 | 42 | 60 | 51 | 44 | 39 | 42 | 37 | 33 | 33 | 29 | 27 | 25 | 23 | 21 | 17 | | | | | | | | | | | | | | | | | | | |
| 6 | 61 | 50 | 42 | 37 | 56 | 46 | 39 | 34 | 37 | 32 | 29 | 30 | 26 | 24 | 23 | 20 | 19 | 15 | | | | | | | | | | | | | | | | | | | |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 35 | 30 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 18 | 17 | 14 | | | | | | | | | | | | | | | | | | | |
| 8 | 53 | 41 | 33 | 28 | 48 | 38 | 31 | 26 | 31 | 26 | 23 | 25 | 21 | 19 | 19 | 17 | 15 | 12 | | | | | | | | | | | | | | | | | | | |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 19 | 17 | 18 | 15 | 14 | 11 | | | | | | | | | | | | | | | | | | | |
| 10 | 46 | 34 | 27 | 23 | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18213 | 18213 | 18213 |
| 5° | 18282 | 17985 | 18084 |
| 10° | 18143 | 17690 | 17539 |
| 15° | 17934 | 17167 | 16672 |
| 20° | 17646 | 16417 | 15593 |
| 25° | 17350 | 15567 | 14549 |
| 30° | 16940 | 14693 | 13209 |
| 35° | 16539 | 13742 | 12033 |
| 40° | 16136 | 12760 | 10671 |
| 45° | 15664 | 11654 | 9439 |
| 50° | 15179 | 10540 | 8231 |
| 55° | 14686 | 9340 | 7068 |
| 60° | 14108 | 8076 | 5867 |
| 65° | 13456 | 6785 | 5345 |
| 70° | 12675 | 5589 | 4914 |
| 75° | 11715 | 5097 | 4585 |
| 80° | 10349 | 4556 | 4175 |
| 85° | 8133 | 3594 | 3594 |



TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.6 | 1.6 |
| 10°-20° | 289.9 | 4.4 |
| 20°-30° | 407.1 | 6.2 |
| 30°-40° | 443.9 | 6.8 |
| 40°-50° | 408.2 | 6.3 |
| 50°-60° | 320.6 | 4.9 |
| 60°-70° | 209.0 | 3.2 |
| 70°-80° | 107.8 | 1.7 |
| 80°-90° | 33.4 | 0.5 |
| 90°-100° | 241.5 | 3.7 |
| 100°-110° | 819.6 | 12.6 |
| 110°-120° | 870.7 | 13.3 |
| 120°-130° | 716.8 | 11.0 |
| 130°-140° | 575.6 | 8.8 |
| 140°-150° | 435.0 | 6.7 |
| 150°-160° | 305.7 | 4.7 |
| 160°-170° | 180.0 | 2.8 |
| 170°-180° | 58.6 | 0.9 |
| 0°-30° | 802.6 | 12.3 |
| 0°-40° | 1246.6 | 19.1 |
| 0°-60° | 1975.3 | 30.3 |
| 0°-90° | 2325.5 | 35.6 |
| 90°-120° | 1931.9 | 29.6 |
| 90°-150° | 3659.3 | 56.0 |
| 90°-180° | 4204.0 | 64.4 |
| 0°-180° | 6529.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1128 | 1128 | 1128 | 1128 | 1128 | |
| 5° | 1128 | 1122 | 1110 | 1118 | 1116 | 107 |
| 15° | 1073 | 1060 | 1027 | 1008 | 997 | 302 |
| 25° | 974 | 939 | 874 | 833 | 817 | 448 |
| 35° | 839 | 785 | 697 | 635 | 610 | 525 |
| 45° | 686 | 615 | 510 | 441 | 413 | 529 |
| 55° | 522 | 440 | 332 | 273 | 251 | 466 |
| 65° | 352 | 269 | 178 | 145 | 140 | 349 |
| 75° | 188 | 118 | 82 | 75 | 74 | 199 |
| 85° | 44 | 23 | 19 | 19 | 19 | 52 |
| 90° | 1 | 16 | 40 | 38 | 38 | 4 |
| 95° | 41 | 100 | 455 | 172 | 132 | 43 |
| 105° | 142 | 214 | 861 | 1539 | 1309 | 151 |
| 115° | 250 | 315 | 720 | 1486 | 1723 | 248 |
| 125° | 348 | 412 | 692 | 1204 | 1398 | 309 |
| 135° | 409 | 488 | 684 | 1012 | 1158 | 316 |
| 145° | 467 | 537 | 681 | 845 | 925 | 293 |
| 155° | 531 | 573 | 661 | 748 | 777 | 244 |
| 165° | 578 | 596 | 633 | 671 | 682 | 163 |
| 175° | 603 | 604 | 609 | 616 | 614 | 57 |
| 180° | 604 | 604 | 604 | 604 | 604 | |



TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 |
| 2.5° | 1132.1 | 1131.2 | 1130.3 | 1129.4 | 1128.5 | 1127.0 | 1125.0 | 1123.0 | 1121.1 | 1119.1 | 1120.9 |
| 5° | 1128.0 | 1126.9 | 1125.8 | 1124.6 | 1123.5 | 1121.5 | 1118.5 | 1115.6 | 1112.6 | 1109.7 | 1111.7 |
| 7.5° | 1116.4 | 1115.0 | 1113.6 | 1112.2 | 1110.8 | 1108.3 | 1104.9 | 1101.5 | 1098.0 | 1094.6 | 1095.1 |
| 10° | 1106.6 | 1105.0 | 1103.4 | 1101.8 | 1100.2 | 1097.2 | 1092.6 | 1088.1 | 1083.6 | 1079.0 | 1078.4 |
| 12.5° | 1094.3 | 1092.4 | 1090.4 | 1088.5 | 1086.5 | 1082.7 | 1076.9 | 1071.1 | 1065.2 | 1059.4 | 1058.2 |
| 15° | 1072.9 | 1070.4 | 1067.9 | 1065.4 | 1062.9 | 1057.8 | 1050.1 | 1042.4 | 1034.7 | 1027.0 | 1022.7 |
| 17.5° | 1046.6 | 1042.8 | 1039.0 | 1035.1 | 1031.3 | 1024.5 | 1014.6 | 1004.7 | 994.8 | 984.9 | 979.8 |
| 20° | 1027.0 | 1022.4 | 1017.9 | 1013.4 | 1008.8 | 1000.9 | 989.5 | 978.2 | 966.9 | 955.5 | 949.8 |
| 22.5° | 1005.7 | 1000.7 | 995.6 | 990.5 | 985.4 | 976.5 | 963.7 | 950.9 | 938.1 | 925.3 | 918.0 |
| 25° | 973.9 | 966.6 | 959.4 | 952.1 | 944.9 | 933.7 | 918.8 | 903.8 | 888.8 | 873.8 | 864.5 |
| 27.5° | 935.5 | 927.6 | 919.7 | 911.8 | 903.9 | 891.5 | 874.7 | 857.8 | 840.9 | 824.0 | 813.2 |
| 30° | 908.6 | 899.9 | 891.3 | 882.7 | 874.1 | 860.7 | 842.5 | 824.4 | 806.2 | 788.1 | 776.5 |
| 32.5° | 882.4 | 872.3 | 862.3 | 852.2 | 842.1 | 827.8 | 809.3 | 790.8 | 772.3 | 753.8 | 740.6 |
| 35° | 839.1 | 827.6 | 816.0 | 804.4 | 792.9 | 777.1 | 757.1 | 737.2 | 717.2 | 697.2 | 682.9 |
| 37.5° | 795.9 | 783.1 | 770.4 | 757.7 | 745.0 | 728.0 | 706.8 | 685.5 | 664.2 | 642.9 | 627.2 |
| 40° | 765.6 | 752.0 | 738.4 | 724.8 | 711.2 | 693.4 | 671.4 | 649.4 | 627.4 | 605.4 | 589.3 |
| 42.5° | 734.6 | 720.3 | 705.9 | 691.6 | 677.3 | 658.7 | 636.0 | 613.3 | 590.5 | 567.8 | 551.1 |
| 45° | 686.0 | 670.8 | 655.6 | 640.4 | 625.2 | 605.7 | 581.9 | 558.1 | 534.2 | 510.4 | 494.3 |
| 47.5° | 638.6 | 622.5 | 606.4 | 590.3 | 574.2 | 553.9 | 529.3 | 504.7 | 480.1 | 455.5 | 439.5 |
| 50° | 604.3 | 588.2 | 572.1 | 556.0 | 539.9 | 519.4 | 494.4 | 469.5 | 444.5 | 419.6 | 403.9 |
| 52.5° | 570.9 | 554.0 | 537.2 | 520.4 | 503.5 | 482.9 | 458.5 | 434.1 | 409.7 | 385.3 | 370.2 |
| 55° | 521.7 | 504.0 | 486.3 | 468.6 | 450.9 | 429.8 | 405.3 | 380.8 | 356.3 | 331.8 | 318.2 |
| 57.5° | 471.2 | 453.1 | 434.9 | 416.8 | 398.6 | 377.8 | 354.2 | 330.7 | 307.1 | 283.6 | 271.1 |
| 60° | 436.9 | 418.8 | 400.6 | 382.5 | 364.3 | 343.6 | 320.2 | 296.8 | 273.5 | 250.1 | 238.5 |
| 62.5° | 403.4 | 385.3 | 367.1 | 349.0 | 330.8 | 310.6 | 288.4 | 266.1 | 243.8 | 221.5 | 210.5 |
| 65° | 352.2 | 333.8 | 315.4 | 297.1 | 278.7 | 259.3 | 238.9 | 218.5 | 198.0 | 177.6 | 169.9 |
| 67.5° | 302.8 | 284.5 | 266.3 | 248.1 | 229.8 | 211.5 | 193.1 | 174.8 | 156.4 | 138.0 | 134.5 |
| 70° | 268.5 | 250.8 | 233.1 | 215.4 | 197.7 | 181.0 | 165.4 | 149.7 | 134.1 | 118.4 | 116.1 |
| 72.5° | 235.8 | 218.8 | 201.9 | 184.9 | 167.9 | 153.2 | 140.6 | 128.0 | 115.5 | 102.9 | 101.0 |
| 75° | 187.8 | 172.0 | 156.1 | 140.2 | 124.3 | 112.5 | 104.8 | 97.1 | 89.4 | 81.7 | 80.1 |
| 77.5° | 140.7 | 126.7 | 112.8 | 98.9 | 85.0 | 76.1 | 72.4 | 68.7 | 65.0 | 61.3 | 60.3 |
| 80° | 111.3 | 99.7 | 88.1 | 76.6 | 65.0 | 58.1 | 55.8 | 53.5 | 51.3 | 49.0 | 48.1 |
| 82.5° | 84.3 | 75.3 | 66.3 | 57.2 | 48.2 | 42.9 | 41.4 | 39.8 | 38.3 | 36.8 | 36.2 |
| 85° | 43.9 | 39.1 | 34.4 | 29.6 | 24.8 | 22.1 | 21.4 | 20.8 | 20.1 | 19.4 | 19.4 |
| 87.5° | 13.3 | 12.5 | 12.0 | 11.0 | 10.0 | 10.0 | 11.2 | 12.8 | 14.2 | 14.4 | 14.0 |
| 90° | 1.2 | 4.6 | 9.3 | 11.6 | 13.9 | 17.4 | 23.2 | 31.4 | 38.3 | 39.5 | 38.3 |
| 92.5° | 14.2 | 20.4 | 28.8 | 33.9 | 41.8 | 52.7 | 79.0 | 115.9 | 148.9 | 151.0 | 127.6 |
| 95° | 40.7 | 45.3 | 56.9 | 67.4 | 86.0 | 113.8 | 167.3 | 268.3 | 403.1 | 455.4 | 398.5 |
| 97.5° | 66.2 | 72.5 | 84.8 | 100.6 | 122.0 | 153.6 | 220.7 | 361.5 | 585.5 | 777.4 | 815.5 |
| 100° | 89.4 | 92.9 | 103.4 | 122.0 | 145.2 | 177.7 | 239.3 | 381.0 | 631.9 | 917.7 | 1085.0 |
| 102.5° | 110.8 | 113.4 | 123.8 | 142.4 | 166.6 | 199.1 | 256.0 | 382.0 | 614.3 | 922.4 | 1185.4 |
| 105° | 141.7 | 146.4 | 154.5 | 171.9 | 197.5 | 230.0 | 284.6 | 388.0 | 579.7 | 860.8 | 1169.8 |
| 107.5° | 175.2 | 178.9 | 186.8 | 202.8 | 228.2 | 260.9 | 313.9 | 404.0 | 562.5 | 794.8 | 1067.8 |
| 110° | 197.5 | 202.1 | 209.1 | 224.2 | 248.6 | 282.3 | 333.4 | 417.0 | 558.8 | 763.2 | 1003.7 |



TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 217.9 | 222.6 | 230.5 | 244.6 | 268.1 | 302.7 | 352.0 | 431.0 | 559.7 | 742.8 | 959.1 |
| 115° | 249.8 | 255.6 | 262.5 | 276.5 | 299.7 | 331.1 | 381.0 | 451.9 | 564.6 | 720.2 | 903.8 |
| 117.5° | 282.8 | 287.4 | 294.4 | 306.7 | 329.0 | 361.5 | 407.7 | 474.2 | 572.9 | 709.3 | 868.9 |
| 120° | 303.2 | 307.8 | 314.8 | 325.3 | 348.5 | 381.0 | 426.3 | 489.1 | 578.5 | 702.8 | 850.3 |
| 122.5° | 322.7 | 326.4 | 333.4 | 344.8 | 368.0 | 401.5 | 444.0 | 502.1 | 585.0 | 699.1 | 834.5 |
| 125° | 348.5 | 352.0 | 359.0 | 372.9 | 396.1 | 428.7 | 470.5 | 522.8 | 594.8 | 692.4 | 812.0 |
| 127.5° | 368.9 | 373.6 | 383.4 | 398.7 | 421.0 | 454.4 | 495.1 | 542.0 | 604.8 | 688.4 | 791.1 |
| 130° | 381.0 | 385.7 | 397.3 | 413.6 | 436.8 | 469.3 | 510.0 | 554.1 | 612.2 | 686.5 | 777.2 |
| 132.5° | 392.2 | 397.8 | 410.3 | 427.5 | 451.7 | 484.2 | 523.0 | 566.2 | 619.6 | 685.6 | 766.0 |
| 135° | 408.9 | 413.6 | 427.5 | 444.9 | 471.6 | 504.2 | 541.3 | 582.0 | 628.5 | 684.2 | 750.4 |
| 137.5° | 424.7 | 430.3 | 444.2 | 462.8 | 489.3 | 519.5 | 556.2 | 594.1 | 636.4 | 684.0 | 739.5 |
| 140° | 436.8 | 441.4 | 455.4 | 474.0 | 499.5 | 529.7 | 564.6 | 600.6 | 640.1 | 683.1 | 733.0 |
| 142.5° | 448.9 | 452.6 | 465.6 | 484.2 | 508.8 | 537.2 | 571.1 | 606.2 | 642.9 | 683.1 | 726.5 |
| 145° | 467.0 | 471.6 | 483.3 | 500.7 | 523.9 | 549.5 | 580.8 | 613.4 | 645.9 | 680.7 | 717.9 |
| 147.5° | 486.5 | 490.0 | 501.1 | 517.2 | 536.5 | 559.2 | 588.7 | 617.3 | 646.8 | 676.6 | 709.1 |
| 150° | 499.5 | 503.0 | 512.3 | 527.4 | 544.8 | 565.7 | 592.5 | 619.2 | 645.9 | 673.8 | 701.6 |
| 152.5° | 512.5 | 514.2 | 523.4 | 536.7 | 553.2 | 572.2 | 596.2 | 620.1 | 644.0 | 669.1 | 695.1 |
| 155° | 530.9 | 532.0 | 539.0 | 551.8 | 564.6 | 582.0 | 601.7 | 621.5 | 641.2 | 661.0 | 683.1 |
| 157.5° | 546.2 | 547.4 | 553.0 | 564.1 | 574.3 | 589.0 | 605.7 | 621.5 | 635.9 | 652.6 | 671.7 |
| 160° | 556.4 | 557.6 | 562.2 | 571.5 | 580.8 | 593.6 | 607.6 | 621.5 | 633.1 | 647.1 | 663.3 |
| 162.5° | 566.7 | 566.0 | 570.6 | 578.0 | 586.4 | 596.4 | 608.5 | 620.6 | 630.3 | 642.4 | 655.9 |
| 165° | 578.5 | 577.4 | 579.7 | 586.6 | 592.5 | 599.4 | 609.9 | 618.0 | 625.0 | 633.1 | 643.6 |
| 167.5° | 588.3 | 586.9 | 589.0 | 593.4 | 597.6 | 602.0 | 609.6 | 616.4 | 619.6 | 625.0 | 631.5 |
| 170° | 594.8 | 592.5 | 593.6 | 597.1 | 599.4 | 602.9 | 608.7 | 614.5 | 616.8 | 620.3 | 625.0 |
| 172.5° | 598.5 | 597.1 | 596.4 | 599.9 | 601.3 | 603.8 | 607.8 | 611.7 | 613.1 | 614.8 | 618.5 |
| 175° | 602.9 | 601.7 | 600.6 | 602.9 | 602.9 | 604.1 | 606.4 | 608.7 | 607.6 | 608.7 | 609.9 |
| 177.5° | 605.0 | 603.1 | 602.2 | 604.1 | 604.1 | 604.1 | 605.0 | 606.9 | 605.0 | 604.1 | 605.0 |
| 180° | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 |



TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 | 1128.0 |
| 2.5° | 1122.7 | 1124.5 | 1126.3 | 1127.0 | 1126.7 | 1126.3 | 1126.0 | 1125.6 |
| 5° | 1113.7 | 1115.8 | 1117.8 | 1118.5 | 1117.8 | 1117.1 | 1116.5 | 1115.8 |
| 7.5° | 1095.7 | 1096.3 | 1096.9 | 1096.6 | 1095.4 | 1094.3 | 1093.1 | 1091.9 |
| 10° | 1077.7 | 1077.0 | 1076.3 | 1075.3 | 1073.9 | 1072.6 | 1071.2 | 1069.8 |
| 12.5° | 1057.0 | 1055.8 | 1054.5 | 1052.8 | 1050.5 | 1048.3 | 1046.0 | 1043.7 |
| 15° | 1018.4 | 1014.0 | 1009.7 | 1006.4 | 1004.2 | 1001.9 | 999.6 | 997.4 |
| 17.5° | 974.7 | 969.5 | 964.4 | 959.9 | 956.0 | 952.1 | 948.2 | 944.3 |
| 20° | 944.2 | 938.5 | 932.8 | 927.5 | 922.5 | 917.5 | 912.5 | 907.5 |
| 22.5° | 910.7 | 903.4 | 896.1 | 890.6 | 886.8 | 883.1 | 879.4 | 875.7 |
| 25° | 855.2 | 845.9 | 836.6 | 830.3 | 826.9 | 823.5 | 820.1 | 816.7 |
| 27.5° | 802.3 | 791.5 | 780.7 | 772.5 | 767.1 | 761.7 | 756.3 | 750.9 |
| 30° | 765.0 | 753.4 | 741.8 | 733.0 | 726.8 | 720.7 | 714.6 | 708.5 |
| 32.5° | 727.4 | 714.2 | 701.0 | 691.5 | 685.7 | 680.0 | 674.2 | 668.5 |
| 35° | 668.7 | 654.4 | 640.1 | 630.4 | 625.4 | 620.4 | 615.5 | 610.5 |
| 37.5° | 611.4 | 595.7 | 580.0 | 569.2 | 563.5 | 557.8 | 552.1 | 546.4 |
| 40° | 573.1 | 557.0 | 540.9 | 529.9 | 524.0 | 518.1 | 512.2 | 506.3 |
| 42.5° | 534.5 | 517.8 | 501.2 | 490.0 | 484.3 | 478.6 | 472.9 | 467.1 |
| 45° | 478.2 | 462.1 | 446.0 | 435.2 | 429.8 | 424.3 | 418.9 | 413.4 |
| 47.5° | 423.5 | 407.5 | 391.4 | 381.0 | 376.0 | 371.1 | 366.1 | 361.2 |
| 50° | 388.3 | 372.6 | 357.0 | 346.7 | 342.0 | 337.2 | 332.5 | 327.7 |
| 52.5° | 355.1 | 339.9 | 324.8 | 315.1 | 310.7 | 306.3 | 301.9 | 297.5 |
| 55° | 304.6 | 290.9 | 277.3 | 268.4 | 264.1 | 259.7 | 255.4 | 251.1 |
| 57.5° | 258.6 | 246.2 | 233.7 | 225.6 | 222.0 | 218.4 | 214.7 | 211.1 |
| 60° | 227.0 | 215.4 | 203.8 | 196.2 | 192.6 | 189.0 | 185.3 | 181.7 |
| 62.5° | 199.5 | 188.4 | 177.4 | 170.8 | 168.6 | 166.5 | 164.3 | 162.1 |
| 65° | 162.2 | 154.5 | 146.8 | 142.6 | 141.9 | 141.2 | 140.5 | 139.9 |
| 67.5° | 130.9 | 127.4 | 123.9 | 121.7 | 121.0 | 120.3 | 119.6 | 118.8 |
| 70° | 113.9 | 111.6 | 109.3 | 107.8 | 106.8 | 105.9 | 105.0 | 104.1 |
| 72.5° | 99.1 | 97.2 | 95.3 | 94.1 | 93.5 | 93.0 | 92.4 | 91.9 |
| 75° | 78.5 | 76.9 | 75.3 | 74.4 | 74.2 | 74.0 | 73.7 | 73.5 |
| 77.5° | 59.4 | 58.5 | 57.6 | 57.0 | 56.6 | 56.3 | 55.9 | 55.5 |
| 80° | 47.2 | 46.3 | 45.4 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 82.5° | 35.7 | 35.1 | 34.6 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 |
| 85° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 87.5° | 13.6 | 13.0 | 13.2 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 |
| 90° | 37.2 | 34.9 | 37.2 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| 92.5° | 101.3 | 86.9 | 77.1 | 69.9 | 69.0 | 65.3 | 66.2 | 64.4 |
| 95° | 304.4 | 233.5 | 184.7 | 159.1 | 144.0 | 134.8 | 131.3 | 132.4 |
| 97.5° | 710.2 | 581.1 | 455.4 | 371.5 | 316.0 | 287.4 | 270.4 | 260.7 |
| 100° | 1060.6 | 916.6 | 757.4 | 616.8 | 520.4 | 470.5 | 436.8 | 415.9 |
| 102.5° | 1290.2 | 1257.6 | 1141.2 | 992.3 | 887.5 | 802.3 | 760.2 | 731.9 |
| 105° | 1411.4 | 1542.7 | 1557.8 | 1519.5 | 1447.4 | 1375.4 | 1325.5 | 1309.2 |
| 107.5° | 1324.1 | 1521.8 | 1642.6 | 1698.8 | 1707.9 | 1703.9 | 1693.9 | 1672.3 |
| 110° | 1248.8 | 1456.7 | 1605.4 | 1700.7 | 1750.6 | 1772.7 | 1783.2 | 1782.0 |



TEST NUMBER: P331704

CATALOG NUMBER: S122RDIP-S675D1080U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1180.0 | 1379.6 | 1538.5 | 1647.7 | 1717.2 | 1754.1 | 1773.9 | 1780.1 |
| 115° | 1095.5 | 1274.4 | 1426.5 | 1546.2 | 1628.7 | 1682.1 | 1712.3 | 1722.8 |
| 117.5° | 1031.8 | 1188.9 | 1326.9 | 1439.1 | 1523.2 | 1579.6 | 1611.5 | 1620.3 |
| 120° | 1000.2 | 1144.2 | 1267.4 | 1373.1 | 1454.4 | 1509.0 | 1542.7 | 1554.3 |
| 122.5° | 975.1 | 1107.1 | 1223.7 | 1319.2 | 1392.1 | 1445.8 | 1475.8 | 1485.5 |
| 125° | 938.6 | 1058.3 | 1160.5 | 1247.6 | 1315.0 | 1359.2 | 1388.2 | 1397.5 |
| 127.5° | 902.6 | 1010.9 | 1107.3 | 1187.7 | 1246.5 | 1287.8 | 1312.9 | 1320.4 |
| 130° | 879.4 | 979.3 | 1071.1 | 1147.7 | 1204.7 | 1244.2 | 1267.4 | 1276.7 |
| 132.5° | 857.1 | 949.6 | 1033.9 | 1105.9 | 1161.9 | 1201.4 | 1222.8 | 1231.1 |
| 135° | 825.9 | 902.6 | 979.3 | 1044.3 | 1094.3 | 1132.6 | 1153.5 | 1158.2 |
| 137.5° | 801.1 | 865.2 | 926.1 | 982.8 | 1028.3 | 1061.3 | 1079.7 | 1086.6 |
| 140° | 785.3 | 841.1 | 894.5 | 945.6 | 982.8 | 1013.0 | 1030.4 | 1037.4 |
| 142.5° | 772.3 | 819.7 | 865.7 | 908.4 | 943.7 | 971.2 | 986.7 | 988.1 |
| 145° | 753.9 | 792.3 | 828.3 | 862.0 | 889.8 | 909.6 | 921.2 | 924.7 |
| 147.5° | 739.8 | 770.0 | 798.1 | 822.7 | 845.7 | 861.5 | 869.4 | 871.5 |
| 150° | 729.5 | 755.1 | 779.5 | 800.4 | 817.8 | 831.8 | 838.7 | 839.9 |
| 152.5° | 719.3 | 743.0 | 763.7 | 781.8 | 795.5 | 807.6 | 812.7 | 812.9 |
| 155° | 705.1 | 723.7 | 741.1 | 753.9 | 766.7 | 774.8 | 779.5 | 777.2 |
| 157.5° | 688.6 | 704.2 | 718.8 | 728.8 | 737.9 | 744.6 | 746.7 | 746.7 |
| 160° | 678.4 | 691.2 | 704.0 | 712.1 | 720.2 | 726.0 | 727.2 | 727.2 |
| 162.5° | 668.2 | 679.1 | 690.0 | 696.3 | 704.4 | 708.4 | 709.5 | 708.6 |
| 165° | 652.9 | 661.0 | 669.1 | 673.8 | 678.4 | 683.1 | 683.1 | 681.9 |
| 167.5° | 638.2 | 644.5 | 650.1 | 654.3 | 656.3 | 658.9 | 658.7 | 657.3 |
| 170° | 630.8 | 634.3 | 638.9 | 641.2 | 642.4 | 645.9 | 644.7 | 642.4 |
| 172.5° | 622.4 | 625.0 | 628.7 | 630.1 | 631.3 | 632.9 | 631.7 | 630.3 |
| 175° | 613.4 | 614.5 | 615.7 | 616.8 | 616.8 | 618.0 | 616.8 | 614.5 |
| 177.5° | 606.9 | 606.9 | 607.8 | 607.8 | 607.8 | 607.8 | 606.9 | 605.0 |
| 180° | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 |

(END OF REPORT)