

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: P331702-940

Luminaire Tested: **S122RDIP-S675D1080U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331702-940
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-S675D1080U940-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5911.2 lumens
Efficiency: N/A
Efficacy: 103.9 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

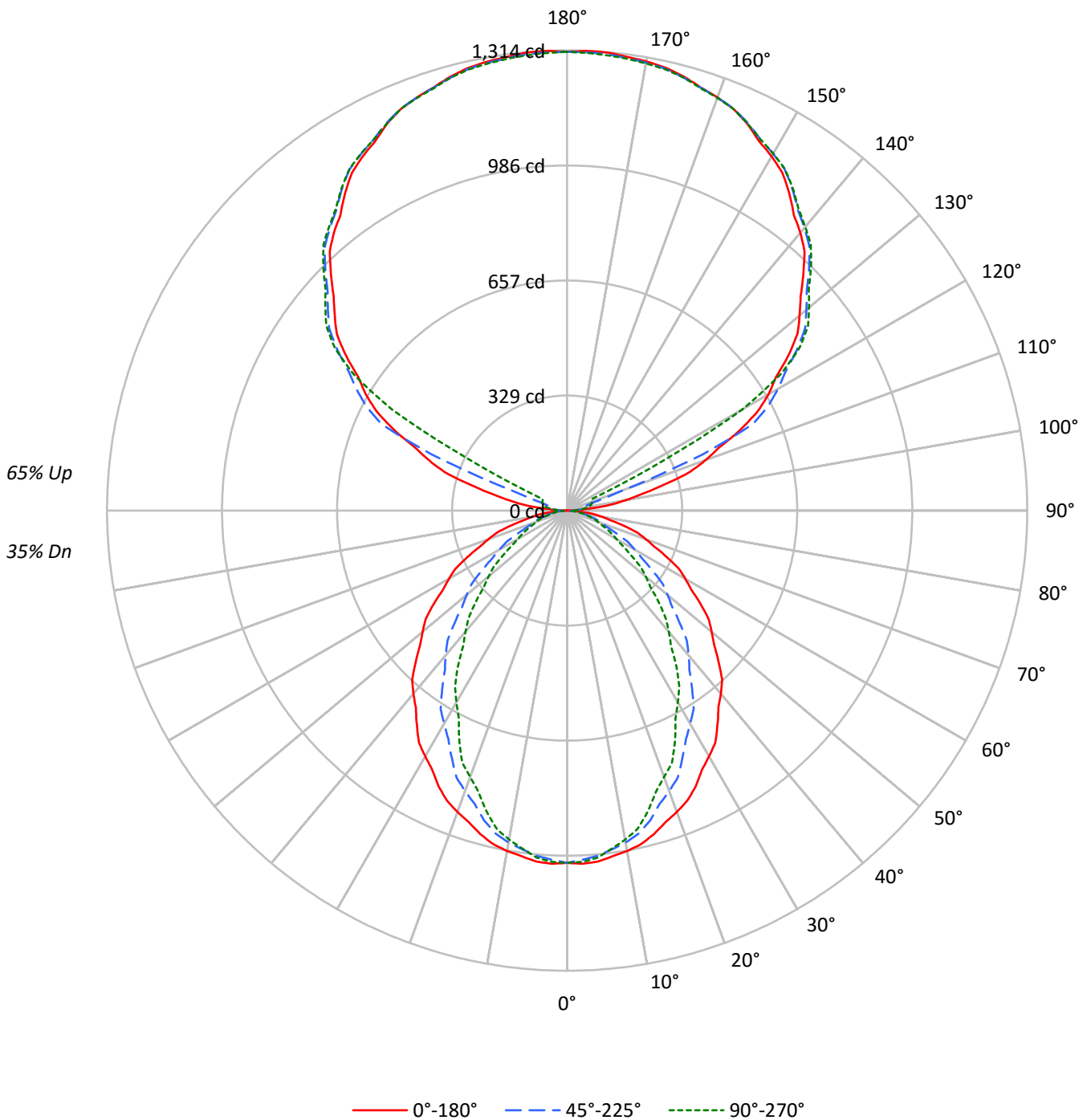
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 51 | 50 | 49 | 38 | 37 | 36 | 30 |
| 2 | 87 | 80 | 74 | 69 | 78 | 72 | 67 | 63 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 32 | 31 | 26 |
| 3 | 79 | 70 | 63 | 58 | 71 | 64 | 58 | 53 | 52 | 47 | 44 | 41 | 38 | 35 | 30 | 28 | 27 | 22 |
| 4 | 72 | 62 | 55 | 49 | 65 | 57 | 50 | 45 | 46 | 41 | 38 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 67 | 56 | 48 | 42 | 60 | 51 | 44 | 39 | 41 | 36 | 33 | 33 | 29 | 27 | 25 | 22 | 21 | 17 |
| 6 | 61 | 50 | 42 | 37 | 55 | 46 | 39 | 34 | 37 | 32 | 29 | 30 | 26 | 23 | 22 | 20 | 18 | 15 |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 34 | 30 | 34 | 29 | 25 | 27 | 23 | 21 | 21 | 18 | 16 | 14 |
| 8 | 53 | 41 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 19 | 19 | 17 | 15 | 12 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 15 | 13 | 11 |
| 10 | 46 | 34 | 27 | 23 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 16 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16239 | 16239 | 16239 |
| 5° | 16302 | 16037 | 16126 |
| 10° | 16179 | 15775 | 15641 |
| 15° | 15992 | 15308 | 14867 |
| 20° | 15735 | 14639 | 13904 |
| 25° | 15471 | 13881 | 12975 |
| 30° | 15105 | 13103 | 11779 |
| 35° | 14747 | 12254 | 10730 |
| 40° | 14389 | 11377 | 9516 |
| 45° | 13967 | 10392 | 8416 |
| 50° | 13536 | 9399 | 7340 |
| 55° | 13095 | 8329 | 6303 |
| 60° | 12581 | 7201 | 5231 |
| 65° | 12000 | 6052 | 4768 |
| 70° | 11301 | 4985 | 4381 |
| 75° | 10449 | 4548 | 4086 |
| 80° | 9224 | 4063 | 3719 |
| 85° | 7243 | 3205 | 3205 |



TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.2 | 1.6 |
| 10°-20° | 258.5 | 4.4 |
| 20°-30° | 363.0 | 6.1 |
| 30°-40° | 395.9 | 6.7 |
| 40°-50° | 364.0 | 6.2 |
| 50°-60° | 285.9 | 4.8 |
| 60°-70° | 186.4 | 3.2 |
| 70°-80° | 96.1 | 1.6 |
| 80°-90° | 28.2 | 0.5 |
| 90°-100° | 43.7 | 0.7 |
| 100°-110° | 160.2 | 2.7 |
| 110°-120° | 428.4 | 7.2 |
| 120°-130° | 707.1 | 12.0 |
| 130°-140° | 752.0 | 12.7 |
| 140°-150° | 699.0 | 11.8 |
| 150°-160° | 562.0 | 9.5 |
| 160°-170° | 362.1 | 6.1 |
| 170°-180° | 124.6 | 2.1 |
| 0°-30° | 715.7 | 12.1 |
| 0°-40° | 1111.6 | 18.8 |
| 0°-60° | 1761.4 | 29.8 |
| 0°-90° | 2072.1 | 35.1 |
| 90°-120° | 632.3 | 10.7 |
| 90°-150° | 2790.4 | 47.2 |
| 90°-180° | 3839.0 | 64.9 |
| 0°-180° | 5911.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1006 | 1006 | 1006 | 1006 | 1006 | |
| 5° | 1006 | 1001 | 990 | 997 | 995 | 95 |
| 15° | 957 | 946 | 916 | 899 | 889 | 269 |
| 25° | 868 | 838 | 779 | 743 | 728 | 399 |
| 35° | 748 | 700 | 622 | 566 | 544 | 468 |
| 45° | 612 | 549 | 455 | 393 | 369 | 472 |
| 55° | 465 | 393 | 296 | 243 | 224 | 416 |
| 65° | 314 | 240 | 158 | 129 | 125 | 311 |
| 75° | 168 | 106 | 73 | 67 | 66 | 177 |
| 85° | 39 | 21 | 17 | 17 | 17 | 46 |
| 90° | 1 | 11 | 19 | 24 | 26 | 5 |
| 95° | 62 | 32 | 37 | 41 | 41 | 75 |
| 105° | 288 | 301 | 58 | 68 | 72 | 308 |
| 115° | 545 | 562 | 585 | 167 | 78 | 537 |
| 125° | 771 | 783 | 801 | 807 | 810 | 687 |
| 135° | 954 | 968 | 977 | 986 | 985 | 736 |
| 145° | 1106 | 1106 | 1121 | 1127 | 1123 | 692 |
| 155° | 1218 | 1211 | 1221 | 1226 | 1219 | 561 |
| 165° | 1284 | 1278 | 1281 | 1287 | 1281 | 362 |
| 175° | 1313 | 1307 | 1308 | 1314 | 1305 | 125 |
| 180° | 1310 | 1310 | 1310 | 1310 | 1310 | |



TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 |
| 2.5° | 1009.5 | 1008.7 | 1007.9 | 1007.1 | 1006.3 | 1005.0 | 1003.2 | 1001.4 | 999.7 | 997.9 | 999.5 |
| 5° | 1005.8 | 1004.9 | 1003.9 | 1002.8 | 1001.8 | 1000.1 | 997.4 | 994.8 | 992.1 | 989.5 | 991.3 |
| 7.5° | 995.5 | 994.3 | 993.0 | 991.8 | 990.5 | 988.3 | 985.3 | 982.2 | 979.1 | 976.1 | 976.5 |
| 10° | 986.8 | 985.3 | 983.9 | 982.5 | 981.1 | 978.4 | 974.3 | 970.3 | 966.3 | 962.2 | 961.6 |
| 12.5° | 975.8 | 974.1 | 972.3 | 970.6 | 968.8 | 965.5 | 960.3 | 955.1 | 949.9 | 944.7 | 943.6 |
| 15° | 956.7 | 954.5 | 952.3 | 950.0 | 947.8 | 943.3 | 936.4 | 929.5 | 922.7 | 915.8 | 912.0 |
| 17.5° | 933.3 | 929.9 | 926.5 | 923.0 | 919.6 | 913.6 | 904.7 | 895.9 | 887.1 | 878.2 | 873.7 |
| 20° | 915.8 | 911.7 | 907.7 | 903.7 | 899.6 | 892.5 | 882.3 | 872.3 | 862.2 | 852.0 | 846.9 |
| 22.5° | 896.8 | 892.3 | 887.8 | 883.2 | 878.7 | 870.8 | 859.3 | 847.9 | 836.5 | 825.1 | 818.6 |
| 25° | 868.4 | 861.9 | 855.5 | 849.0 | 842.6 | 832.6 | 819.3 | 805.9 | 792.6 | 779.2 | 770.9 |
| 27.5° | 834.2 | 827.2 | 820.1 | 813.1 | 806.0 | 795.0 | 780.0 | 764.9 | 749.8 | 734.8 | 725.1 |
| 30° | 810.2 | 802.5 | 794.8 | 787.1 | 779.4 | 767.5 | 751.3 | 735.1 | 718.9 | 702.8 | 692.4 |
| 32.5° | 786.8 | 777.8 | 768.9 | 759.9 | 750.9 | 738.2 | 721.7 | 705.2 | 688.7 | 672.2 | 660.4 |
| 35° | 748.2 | 738.0 | 727.6 | 717.3 | 707.0 | 692.9 | 675.1 | 657.4 | 639.5 | 621.7 | 608.9 |
| 37.5° | 709.7 | 698.3 | 687.0 | 675.6 | 664.3 | 649.2 | 630.3 | 611.3 | 592.3 | 573.3 | 559.3 |
| 40° | 682.7 | 670.6 | 658.4 | 646.3 | 634.2 | 618.3 | 598.7 | 579.1 | 559.5 | 539.8 | 525.5 |
| 42.5° | 655.1 | 642.3 | 629.5 | 616.7 | 604.0 | 587.4 | 567.1 | 546.9 | 526.6 | 506.3 | 491.4 |
| 45° | 611.7 | 598.2 | 584.6 | 571.1 | 557.5 | 540.1 | 518.9 | 497.7 | 476.4 | 455.1 | 440.8 |
| 47.5° | 569.4 | 555.1 | 540.7 | 526.4 | 512.0 | 493.9 | 472.0 | 450.0 | 428.1 | 406.2 | 391.9 |
| 50° | 538.9 | 524.5 | 510.1 | 495.8 | 481.4 | 463.2 | 440.9 | 418.7 | 396.4 | 374.2 | 360.2 |
| 52.5° | 509.1 | 494.0 | 479.0 | 464.0 | 449.0 | 430.6 | 408.8 | 387.1 | 365.3 | 343.6 | 330.1 |
| 55° | 465.2 | 449.4 | 433.6 | 417.9 | 402.1 | 383.3 | 361.4 | 339.6 | 317.7 | 295.9 | 283.7 |
| 57.5° | 420.2 | 404.0 | 387.8 | 371.7 | 355.4 | 336.9 | 315.8 | 294.9 | 273.8 | 252.9 | 241.7 |
| 60° | 389.6 | 373.4 | 357.2 | 341.1 | 324.9 | 306.4 | 285.5 | 264.7 | 243.9 | 223.0 | 212.7 |
| 62.5° | 359.7 | 343.6 | 327.3 | 311.2 | 295.0 | 277.0 | 257.2 | 237.3 | 217.4 | 197.5 | 187.7 |
| 65° | 314.1 | 297.7 | 281.2 | 264.9 | 248.5 | 231.2 | 213.0 | 194.8 | 176.6 | 158.4 | 151.5 |
| 67.5° | 270.0 | 253.7 | 237.5 | 221.2 | 204.9 | 188.6 | 172.2 | 155.9 | 139.5 | 123.1 | 119.9 |
| 70° | 239.4 | 223.6 | 207.9 | 192.1 | 176.3 | 161.4 | 147.5 | 133.5 | 119.6 | 105.6 | 103.5 |
| 72.5° | 210.3 | 195.1 | 180.0 | 164.9 | 149.7 | 136.6 | 125.4 | 114.1 | 103.0 | 91.8 | 90.1 |
| 75° | 167.5 | 153.4 | 139.2 | 125.0 | 110.8 | 100.3 | 93.5 | 86.6 | 79.7 | 72.9 | 71.4 |
| 77.5° | 125.5 | 113.0 | 100.6 | 88.2 | 75.8 | 67.9 | 64.6 | 61.3 | 58.0 | 54.7 | 53.8 |
| 80° | 99.2 | 88.9 | 78.6 | 68.3 | 58.0 | 51.8 | 49.8 | 47.7 | 45.7 | 43.7 | 42.9 |
| 82.5° | 75.2 | 67.1 | 59.1 | 51.0 | 43.0 | 38.3 | 36.9 | 35.5 | 34.2 | 32.8 | 32.3 |
| 85° | 39.1 | 34.9 | 30.7 | 26.4 | 22.1 | 19.7 | 19.1 | 18.5 | 17.9 | 17.3 | 17.3 |
| 87.5° | 11.9 | 11.0 | 10.2 | 9.4 | 8.6 | 8.3 | 8.6 | 8.9 | 9.3 | 9.6 | 9.6 |
| 90° | 1.0 | 3.3 | 5.6 | 7.9 | 10.3 | 12.2 | 13.9 | 15.6 | 17.3 | 19.0 | 20.0 |
| 92.5° | 19.2 | 18.9 | 18.7 | 18.5 | 18.3 | 18.6 | 19.4 | 20.3 | 21.1 | 22.0 | 22.6 |
| 95° | 61.6 | 54.7 | 47.7 | 40.8 | 33.8 | 31.0 | 32.5 | 34.1 | 35.5 | 37.0 | 38.0 |
| 97.5° | 122.3 | 102.7 | 83.1 | 63.5 | 44.0 | 35.8 | 39.2 | 42.6 | 46.1 | 49.5 | 50.3 |
| 100° | 167.8 | 138.9 | 110.0 | 81.2 | 52.3 | 39.7 | 43.2 | 46.9 | 50.5 | 54.0 | 55.7 |
| 102.5° | 217.8 | 211.7 | 205.6 | 199.5 | 193.4 | 175.4 | 145.4 | 115.5 | 85.5 | 55.6 | 57.8 |
| 105° | 288.2 | 294.5 | 300.8 | 307.1 | 313.4 | 287.8 | 230.3 | 172.8 | 115.3 | 57.8 | 60.1 |
| 107.5° | 368.4 | 373.4 | 378.5 | 383.6 | 388.8 | 356.9 | 287.8 | 218.9 | 149.9 | 81.0 | 78.6 |
| 110° | 419.9 | 424.4 | 428.8 | 433.2 | 437.7 | 409.4 | 348.5 | 287.7 | 226.8 | 165.9 | 144.8 |



TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 468.5 | 472.4 | 476.3 | 480.2 | 484.1 | 478.6 | 463.5 | 448.5 | 433.5 | 418.4 | 341.6 |
| 115° | 545.1 | 548.7 | 552.2 | 555.8 | 559.4 | 563.8 | 569.1 | 574.4 | 579.6 | 584.9 | 487.3 |
| 117.5° | 613.5 | 617.5 | 621.5 | 625.5 | 629.5 | 633.3 | 636.9 | 640.6 | 644.2 | 647.8 | 624.2 |
| 120° | 663.5 | 666.7 | 669.9 | 673.1 | 676.2 | 679.7 | 683.5 | 687.2 | 691.1 | 694.8 | 697.3 |
| 122.5° | 706.1 | 709.4 | 712.7 | 716.0 | 719.3 | 723.1 | 727.2 | 731.3 | 735.5 | 739.6 | 741.1 |
| 125° | 770.7 | 773.4 | 776.1 | 778.9 | 781.6 | 785.0 | 789.0 | 793.0 | 797.0 | 801.0 | 802.5 |
| 127.5° | 829.3 | 832.3 | 835.4 | 838.4 | 841.4 | 844.4 | 847.4 | 850.3 | 853.4 | 856.4 | 858.5 |
| 130° | 866.4 | 869.8 | 873.2 | 876.6 | 879.9 | 882.7 | 885.0 | 887.3 | 889.7 | 892.0 | 894.3 |
| 132.5° | 904.3 | 907.2 | 910.1 | 912.9 | 915.8 | 918.4 | 920.7 | 923.0 | 925.3 | 927.6 | 929.6 |
| 135° | 953.6 | 957.0 | 960.4 | 963.8 | 967.1 | 969.7 | 971.6 | 973.5 | 975.4 | 977.3 | 979.5 |
| 137.5° | 1003.4 | 1005.8 | 1008.2 | 1010.6 | 1012.9 | 1015.1 | 1017.4 | 1019.5 | 1021.6 | 1023.8 | 1025.8 |
| 140° | 1036.1 | 1037.8 | 1039.5 | 1041.2 | 1042.9 | 1044.8 | 1047.1 | 1049.5 | 1051.8 | 1054.1 | 1056.0 |
| 142.5° | 1063.4 | 1064.9 | 1066.4 | 1067.9 | 1069.4 | 1071.6 | 1074.2 | 1076.8 | 1079.5 | 1082.2 | 1083.9 |
| 145° | 1106.3 | 1106.0 | 1105.8 | 1105.6 | 1105.4 | 1107.1 | 1110.6 | 1114.2 | 1117.8 | 1121.4 | 1122.8 |
| 147.5° | 1143.6 | 1142.8 | 1142.0 | 1141.2 | 1140.4 | 1141.7 | 1145.3 | 1148.8 | 1152.4 | 1155.9 | 1157.0 |
| 150° | 1167.9 | 1166.4 | 1164.9 | 1163.4 | 1162.0 | 1162.9 | 1166.3 | 1169.7 | 1173.0 | 1176.3 | 1177.7 |
| 152.5° | 1188.3 | 1186.7 | 1185.0 | 1183.4 | 1181.8 | 1182.5 | 1185.7 | 1188.9 | 1192.1 | 1195.3 | 1196.6 |
| 155° | 1218.1 | 1216.2 | 1214.3 | 1212.4 | 1210.5 | 1210.9 | 1213.4 | 1215.8 | 1218.4 | 1220.9 | 1222.2 |
| 157.5° | 1241.4 | 1239.8 | 1238.2 | 1236.6 | 1235.0 | 1235.1 | 1236.9 | 1238.6 | 1240.4 | 1242.2 | 1243.6 |
| 160° | 1255.1 | 1253.8 | 1252.5 | 1251.2 | 1250.0 | 1250.0 | 1251.2 | 1252.5 | 1253.8 | 1255.1 | 1256.3 |
| 162.5° | 1267.2 | 1266.0 | 1264.6 | 1263.4 | 1262.1 | 1262.0 | 1263.1 | 1264.3 | 1265.3 | 1266.4 | 1267.8 |
| 165° | 1283.5 | 1282.2 | 1280.9 | 1279.7 | 1278.4 | 1278.1 | 1278.7 | 1279.4 | 1280.1 | 1280.7 | 1282.1 |
| 167.5° | 1295.7 | 1294.4 | 1293.1 | 1291.8 | 1290.6 | 1290.2 | 1290.8 | 1291.4 | 1292.0 | 1292.6 | 1294.1 |
| 170° | 1302.4 | 1301.2 | 1299.9 | 1298.7 | 1297.4 | 1297.0 | 1297.4 | 1297.8 | 1298.2 | 1298.7 | 1300.1 |
| 172.5° | 1307.0 | 1305.7 | 1304.5 | 1303.2 | 1302.0 | 1301.5 | 1302.0 | 1302.3 | 1302.8 | 1303.2 | 1304.7 |
| 175° | 1312.9 | 1311.4 | 1309.9 | 1308.5 | 1307.0 | 1306.4 | 1306.9 | 1307.3 | 1307.7 | 1308.1 | 1309.7 |
| 177.5° | 1313.8 | 1312.7 | 1311.4 | 1310.3 | 1309.1 | 1308.6 | 1308.8 | 1308.9 | 1309.1 | 1309.3 | 1310.5 |
| 180° | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 |



TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 |
| 2.5° | 1001.1 | 1002.7 | 1004.3 | 1005.0 | 1004.7 | 1004.3 | 1004.1 | 1003.7 |
| 5° | 993.1 | 995.0 | 996.8 | 997.4 | 996.8 | 996.1 | 995.6 | 995.0 |
| 7.5° | 977.0 | 977.6 | 978.1 | 977.9 | 976.8 | 975.8 | 974.7 | 973.7 |
| 10° | 961.0 | 960.4 | 959.7 | 958.9 | 957.6 | 956.4 | 955.2 | 954.0 |
| 12.5° | 942.5 | 941.5 | 940.3 | 938.8 | 936.7 | 934.8 | 932.7 | 930.7 |
| 15° | 908.1 | 904.2 | 900.4 | 897.4 | 895.5 | 893.4 | 891.4 | 889.4 |
| 17.5° | 869.2 | 864.5 | 860.0 | 856.0 | 852.5 | 849.0 | 845.5 | 842.0 |
| 20° | 842.0 | 836.9 | 831.8 | 827.1 | 822.6 | 818.1 | 813.7 | 809.2 |
| 22.5° | 812.1 | 805.6 | 799.1 | 794.2 | 790.8 | 787.5 | 784.2 | 780.9 |
| 25° | 762.6 | 754.3 | 746.0 | 740.4 | 737.4 | 734.3 | 731.3 | 728.3 |
| 27.5° | 715.4 | 705.8 | 696.2 | 688.8 | 684.0 | 679.2 | 674.4 | 669.6 |
| 30° | 682.2 | 671.8 | 661.5 | 653.6 | 648.1 | 642.7 | 637.2 | 631.8 |
| 32.5° | 648.6 | 636.9 | 625.1 | 616.6 | 611.4 | 606.4 | 601.2 | 596.1 |
| 35° | 596.3 | 583.5 | 570.8 | 562.1 | 557.7 | 553.2 | 548.8 | 544.4 |
| 37.5° | 545.2 | 531.2 | 517.2 | 507.6 | 502.5 | 497.4 | 492.3 | 487.2 |
| 40° | 511.0 | 496.7 | 482.3 | 472.5 | 467.3 | 462.0 | 456.7 | 451.5 |
| 42.5° | 476.6 | 461.7 | 446.9 | 436.9 | 431.9 | 426.8 | 421.7 | 416.5 |
| 45° | 426.4 | 412.1 | 397.7 | 388.1 | 383.3 | 378.4 | 373.5 | 368.6 |
| 47.5° | 377.6 | 363.4 | 349.0 | 339.7 | 335.3 | 330.9 | 326.5 | 322.1 |
| 50° | 346.3 | 332.3 | 318.3 | 309.2 | 305.0 | 300.7 | 296.5 | 292.2 |
| 52.5° | 316.6 | 303.1 | 289.6 | 281.0 | 277.1 | 273.1 | 269.2 | 265.3 |
| 55° | 271.6 | 259.4 | 247.3 | 239.3 | 235.5 | 231.6 | 227.7 | 223.9 |
| 57.5° | 230.6 | 219.5 | 208.4 | 201.2 | 198.0 | 194.7 | 191.5 | 188.2 |
| 60° | 202.4 | 192.1 | 181.7 | 175.0 | 171.7 | 168.5 | 165.2 | 162.0 |
| 62.5° | 177.9 | 168.0 | 158.2 | 152.3 | 150.3 | 148.5 | 146.5 | 144.5 |
| 65° | 144.6 | 137.8 | 130.9 | 127.2 | 126.5 | 125.9 | 125.3 | 124.8 |
| 67.5° | 116.7 | 113.6 | 110.5 | 108.5 | 107.9 | 107.3 | 106.6 | 105.9 |
| 70° | 101.6 | 99.5 | 97.5 | 96.1 | 95.2 | 94.4 | 93.6 | 92.8 |
| 72.5° | 88.4 | 86.7 | 85.0 | 83.9 | 83.4 | 82.9 | 82.4 | 81.9 |
| 75° | 70.0 | 68.6 | 67.1 | 66.3 | 66.2 | 66.0 | 65.7 | 65.5 |
| 77.5° | 53.0 | 52.2 | 51.4 | 50.8 | 50.5 | 50.2 | 49.8 | 49.5 |
| 80° | 42.1 | 41.3 | 40.5 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 82.5° | 31.8 | 31.3 | 30.9 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 |
| 85° | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 |
| 87.5° | 9.7 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 |
| 90° | 21.0 | 22.1 | 23.2 | 23.9 | 24.3 | 24.8 | 25.1 | 25.6 |
| 92.5° | 23.1 | 23.6 | 24.2 | 24.6 | 24.9 | 25.1 | 25.3 | 25.6 |
| 95° | 39.1 | 40.1 | 41.2 | 41.6 | 41.4 | 41.2 | 40.9 | 40.8 |
| 97.5° | 51.2 | 52.0 | 52.9 | 53.4 | 53.7 | 53.9 | 54.1 | 54.4 |
| 100° | 57.4 | 59.1 | 60.8 | 61.8 | 62.2 | 62.7 | 63.1 | 63.5 |
| 102.5° | 59.9 | 62.2 | 64.3 | 65.7 | 66.3 | 66.9 | 67.5 | 68.0 |
| 105° | 62.4 | 64.7 | 67.1 | 68.7 | 69.6 | 70.4 | 71.2 | 72.1 |
| 107.5° | 76.2 | 73.8 | 71.5 | 70.8 | 71.6 | 72.4 | 73.3 | 74.1 |
| 110° | 123.8 | 102.7 | 81.6 | 71.5 | 72.3 | 73.2 | 74.0 | 74.9 |



TEST NUMBER: P331702-940

CATALOG NUMBER: S122RDIP-S675D1080U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 264.7 | 187.9 | 111.0 | 72.9 | 73.7 | 74.3 | 75.0 | 75.6 |
| 115° | 389.8 | 292.3 | 194.7 | 138.4 | 123.2 | 108.1 | 92.9 | 77.8 |
| 117.5° | 600.7 | 577.0 | 553.5 | 516.7 | 466.9 | 417.1 | 367.2 | 317.4 |
| 120° | 699.9 | 702.4 | 705.0 | 692.0 | 663.5 | 635.1 | 606.6 | 578.3 |
| 122.5° | 742.6 | 744.1 | 745.6 | 743.6 | 738.2 | 732.6 | 727.1 | 721.6 |
| 125° | 804.0 | 805.4 | 806.9 | 808.0 | 808.6 | 809.2 | 809.9 | 810.5 |
| 127.5° | 860.7 | 862.8 | 865.0 | 866.1 | 866.2 | 866.4 | 866.5 | 866.6 |
| 130° | 896.6 | 898.9 | 901.3 | 902.3 | 902.1 | 901.9 | 901.7 | 901.5 |
| 132.5° | 931.6 | 933.6 | 935.6 | 936.5 | 936.2 | 936.0 | 935.9 | 935.6 |
| 135° | 981.5 | 983.6 | 985.7 | 986.6 | 986.1 | 985.7 | 985.3 | 984.9 |
| 137.5° | 1027.9 | 1029.9 | 1032.0 | 1032.7 | 1032.0 | 1031.3 | 1030.6 | 1029.8 |
| 140° | 1057.9 | 1059.8 | 1061.7 | 1062.1 | 1061.0 | 1060.0 | 1058.9 | 1057.9 |
| 142.5° | 1085.6 | 1087.4 | 1089.0 | 1089.4 | 1088.3 | 1087.3 | 1086.3 | 1085.2 |
| 145° | 1124.4 | 1125.8 | 1127.3 | 1127.5 | 1126.5 | 1125.4 | 1124.4 | 1123.3 |
| 147.5° | 1158.1 | 1159.2 | 1160.3 | 1160.4 | 1159.5 | 1158.6 | 1157.7 | 1156.8 |
| 150° | 1178.9 | 1180.2 | 1181.4 | 1181.5 | 1180.4 | 1179.5 | 1178.4 | 1177.3 |
| 152.5° | 1197.8 | 1199.2 | 1200.4 | 1200.3 | 1198.9 | 1197.6 | 1196.1 | 1194.8 |
| 155° | 1223.4 | 1224.8 | 1226.0 | 1225.7 | 1224.1 | 1222.4 | 1220.8 | 1219.1 |
| 157.5° | 1245.0 | 1246.4 | 1247.9 | 1247.8 | 1246.2 | 1244.5 | 1242.9 | 1241.2 |
| 160° | 1257.6 | 1258.8 | 1260.1 | 1260.0 | 1258.6 | 1257.0 | 1255.6 | 1254.1 |
| 162.5° | 1269.3 | 1270.7 | 1272.2 | 1271.9 | 1270.2 | 1268.4 | 1266.5 | 1264.7 |
| 165° | 1283.6 | 1285.0 | 1286.6 | 1286.6 | 1285.0 | 1283.6 | 1282.1 | 1280.7 |
| 167.5° | 1295.6 | 1297.0 | 1298.5 | 1298.2 | 1296.4 | 1294.5 | 1292.6 | 1290.7 |
| 170° | 1301.6 | 1303.1 | 1304.6 | 1304.3 | 1302.4 | 1300.6 | 1298.7 | 1296.7 |
| 172.5° | 1306.2 | 1307.6 | 1309.1 | 1308.9 | 1307.0 | 1305.1 | 1303.2 | 1301.3 |
| 175° | 1311.1 | 1312.6 | 1314.0 | 1313.8 | 1311.6 | 1309.5 | 1307.4 | 1305.3 |
| 177.5° | 1311.6 | 1312.8 | 1314.0 | 1313.8 | 1312.3 | 1310.8 | 1309.3 | 1307.8 |
| 180° | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 |

(END OF REPORT)