

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: P331417-940

Luminaire Tested: **S122DIP-S865D1080U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331417-940
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: S122DIP-S865D1080U940-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6973.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

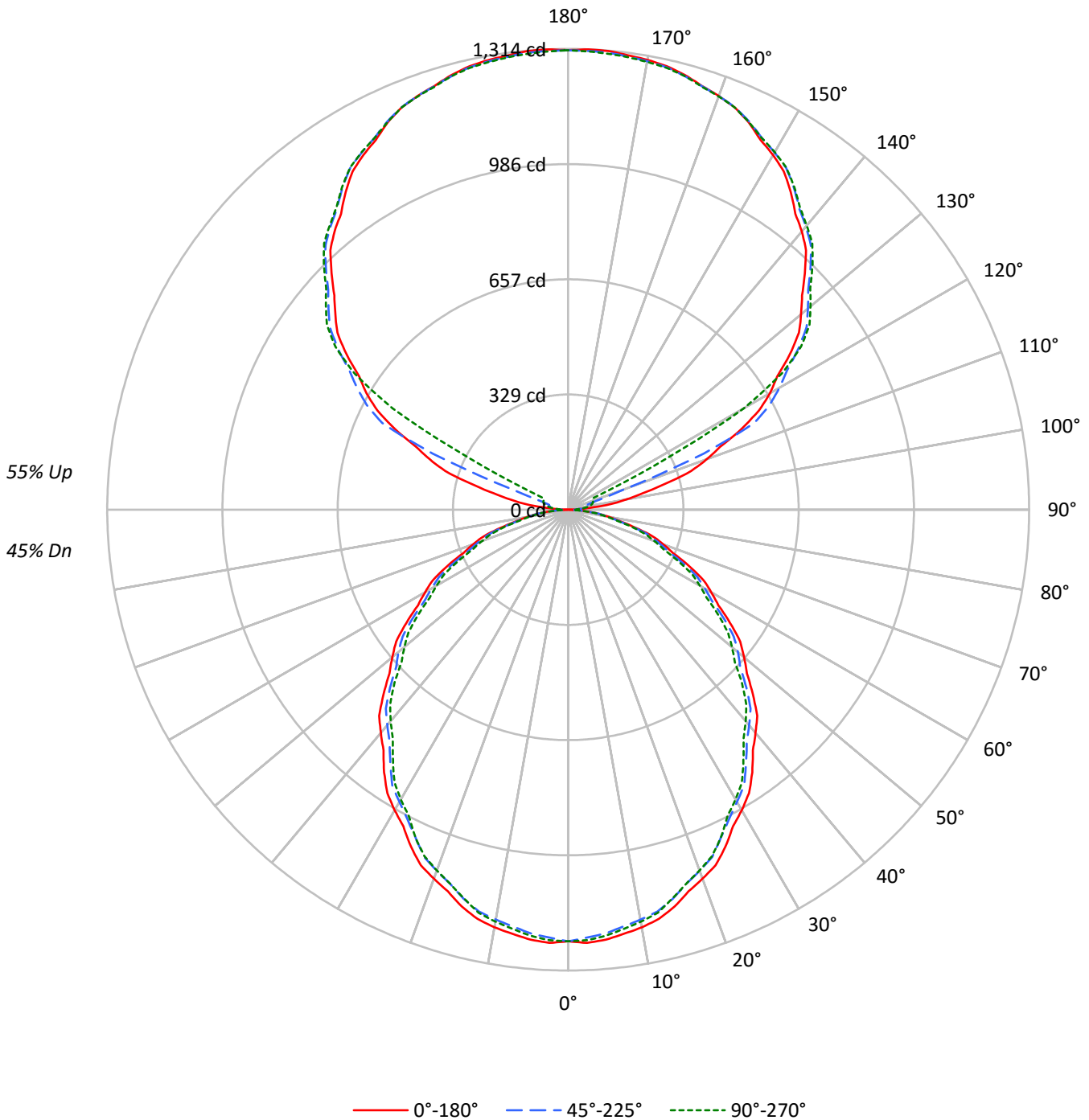
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1 | 97 | 92 | 88 | 85 | 88 | 85 | 81 | 78 | 71 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2 | 88 | 81 | 75 | 69 | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 37 | 32 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 38 | 35 | 33 | 31 | 27 |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 29 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 21 | 18 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 35 | 28 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19869 | 19869 | 19869 |
| 5° | 19945 | 19656 | 19772 |
| 10° | 19825 | 19457 | 19556 |
| 15° | 19580 | 19206 | 19184 |
| 20° | 19234 | 18826 | 18806 |
| 25° | 18887 | 18360 | 18360 |
| 30° | 18442 | 17935 | 17780 |
| 35° | 18027 | 17422 | 17164 |
| 40° | 17506 | 16910 | 16583 |
| 45° | 16993 | 16401 | 15995 |
| 50° | 16435 | 15872 | 15307 |
| 55° | 15854 | 15254 | 14688 |
| 60° | 15206 | 14518 | 13986 |
| 65° | 14514 | 13788 | 13154 |
| 70° | 13629 | 12902 | 12288 |
| 75° | 12402 | 11884 | 11584 |
| 80° | 11000 | 10674 | 10126 |
| 85° | 8985 | 8559 | 7669 |



TEST NUMBER: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.7 | 1.7 |
| 10°-20° | 325.6 | 4.7 |
| 20°-30° | 478.6 | 6.9 |
| 30°-40° | 555.9 | 8.0 |
| 40°-50° | 555.3 | 8.0 |
| 50°-60° | 484.3 | 6.9 |
| 60°-70° | 358.1 | 5.1 |
| 70°-80° | 202.8 | 2.9 |
| 80°-90° | 57.8 | 0.8 |
| 90°-100° | 43.7 | 0.6 |
| 100°-110° | 160.2 | 2.3 |
| 110°-120° | 428.4 | 6.1 |
| 120°-130° | 707.1 | 10.1 |
| 130°-140° | 752.0 | 10.8 |
| 140°-150° | 699.0 | 10.0 |
| 150°-160° | 562.0 | 8.1 |
| 160°-170° | 362.1 | 5.2 |
| 170°-180° | 124.6 | 1.8 |
| 0°-30° | 919.9 | 13.2 |
| 0°-40° | 1475.8 | 21.2 |
| 0°-60° | 2515.4 | 36.1 |
| 0°-90° | 3134.0 | 44.9 |
| 90°-120° | 632.3 | 9.1 |
| 90°-150° | 2790.4 | 40.0 |
| 90°-180° | 3839.0 | 55.1 |
| 0°-180° | 6973.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1231 | 1231 | 1231 | 1231 | 1231 | |
| 5° | 1231 | 1225 | 1213 | 1222 | 1220 | 117 |
| 15° | 1171 | 1164 | 1149 | 1153 | 1148 | 330 |
| 25° | 1060 | 1050 | 1031 | 1033 | 1031 | 488 |
| 35° | 915 | 902 | 884 | 877 | 871 | 571 |
| 45° | 744 | 735 | 718 | 706 | 700 | 574 |
| 55° | 563 | 556 | 542 | 528 | 522 | 503 |
| 65° | 380 | 372 | 361 | 350 | 344 | 376 |
| 75° | 199 | 196 | 190 | 184 | 186 | 212 |
| 85° | 48 | 47 | 46 | 43 | 41 | 56 |
| 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: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 |
| 2.5° | 1236.3 | 1235.2 | 1234.1 | 1233.1 | 1232.1 | 1230.4 | 1228.1 | 1225.7 | 1223.4 | 1221.1 | 1223.2 |
| 5° | 1230.6 | 1229.5 | 1228.5 | 1227.4 | 1226.4 | 1224.4 | 1221.6 | 1218.6 | 1215.8 | 1212.8 | 1215.0 |
| 7.5° | 1219.7 | 1218.1 | 1216.5 | 1214.8 | 1213.2 | 1210.9 | 1207.9 | 1205.0 | 1202.0 | 1199.1 | 1201.2 |
| 10° | 1209.2 | 1207.5 | 1205.6 | 1203.7 | 1201.9 | 1199.4 | 1196.2 | 1193.1 | 1190.0 | 1186.8 | 1188.9 |
| 12.5° | 1195.1 | 1193.5 | 1191.9 | 1190.2 | 1188.6 | 1186.2 | 1183.0 | 1179.8 | 1176.7 | 1173.6 | 1175.0 |
| 15° | 1171.4 | 1169.8 | 1168.2 | 1166.7 | 1165.1 | 1162.6 | 1159.2 | 1155.7 | 1152.4 | 1149.0 | 1150.0 |
| 17.5° | 1141.1 | 1139.5 | 1138.0 | 1136.4 | 1134.8 | 1132.3 | 1128.8 | 1125.3 | 1121.9 | 1118.4 | 1119.6 |
| 20° | 1119.4 | 1117.8 | 1116.2 | 1114.6 | 1113.0 | 1110.4 | 1106.7 | 1103.0 | 1099.4 | 1095.7 | 1096.4 |
| 22.5° | 1097.6 | 1095.4 | 1093.1 | 1090.9 | 1088.8 | 1085.9 | 1082.4 | 1079.0 | 1075.5 | 1072.0 | 1072.2 |
| 25° | 1060.2 | 1058.1 | 1056.0 | 1053.9 | 1051.8 | 1048.5 | 1044.0 | 1039.6 | 1035.1 | 1030.6 | 1031.2 |
| 27.5° | 1017.6 | 1015.7 | 1013.8 | 1011.9 | 1010.0 | 1007.3 | 1003.8 | 1000.2 | 996.8 | 993.2 | 992.5 |
| 30° | 989.2 | 987.1 | 985.0 | 982.9 | 980.8 | 977.8 | 973.8 | 969.9 | 965.9 | 962.0 | 961.2 |
| 32.5° | 958.9 | 957.3 | 955.6 | 953.9 | 952.2 | 949.2 | 945.1 | 940.9 | 936.8 | 932.6 | 931.2 |
| 35° | 914.6 | 912.0 | 909.4 | 906.8 | 904.1 | 900.7 | 896.5 | 892.3 | 888.1 | 883.9 | 882.3 |
| 37.5° | 864.7 | 862.4 | 860.1 | 857.7 | 855.5 | 852.2 | 848.0 | 843.8 | 839.5 | 835.4 | 833.4 |
| 40° | 830.6 | 828.6 | 826.4 | 824.3 | 822.2 | 819.0 | 814.8 | 810.7 | 806.5 | 802.3 | 799.9 |
| 42.5° | 797.5 | 795.4 | 793.3 | 791.2 | 789.1 | 786.0 | 781.8 | 777.6 | 773.3 | 769.1 | 766.5 |
| 45° | 744.2 | 742.4 | 740.6 | 738.8 | 736.9 | 734.0 | 730.0 | 726.1 | 722.2 | 718.3 | 715.3 |
| 47.5° | 691.3 | 689.6 | 687.8 | 686.1 | 684.3 | 681.4 | 677.3 | 673.2 | 669.1 | 664.9 | 661.9 |
| 50° | 654.3 | 653.0 | 651.8 | 650.4 | 649.1 | 646.6 | 642.9 | 639.2 | 635.5 | 631.9 | 628.2 |
| 52.5° | 618.4 | 616.6 | 614.9 | 613.1 | 611.4 | 608.9 | 605.4 | 601.9 | 598.4 | 594.9 | 591.9 |
| 55° | 563.2 | 561.7 | 560.1 | 558.5 | 556.9 | 554.6 | 551.4 | 548.2 | 545.1 | 541.9 | 538.8 |
| 57.5° | 507.8 | 506.6 | 505.3 | 504.1 | 502.8 | 500.4 | 497.0 | 493.5 | 490.0 | 486.5 | 483.5 |
| 60° | 470.9 | 469.8 | 468.9 | 467.8 | 466.7 | 464.4 | 460.7 | 457.0 | 453.3 | 449.6 | 446.7 |
| 62.5° | 435.0 | 433.3 | 431.6 | 429.9 | 428.2 | 426.0 | 423.1 | 420.3 | 417.4 | 414.6 | 412.0 |
| 65° | 379.9 | 378.3 | 376.7 | 375.1 | 373.5 | 371.4 | 368.8 | 366.1 | 363.6 | 360.9 | 358.6 |
| 67.5° | 323.8 | 322.4 | 321.2 | 319.9 | 318.7 | 316.9 | 314.5 | 312.1 | 309.8 | 307.4 | 305.6 |
| 70° | 288.7 | 287.7 | 286.6 | 285.5 | 284.5 | 282.8 | 280.4 | 278.0 | 275.7 | 273.3 | 271.5 |
| 72.5° | 252.7 | 251.7 | 250.7 | 249.6 | 248.5 | 247.3 | 245.8 | 244.2 | 242.6 | 241.1 | 239.3 |
| 75° | 198.8 | 198.2 | 197.7 | 197.2 | 196.7 | 195.7 | 194.5 | 193.1 | 191.8 | 190.5 | 189.0 |
| 77.5° | 150.5 | 149.6 | 148.7 | 147.8 | 147.0 | 146.2 | 145.7 | 145.2 | 144.6 | 144.1 | 143.3 |
| 80° | 118.3 | 118.1 | 117.8 | 117.5 | 117.3 | 116.9 | 116.4 | 115.8 | 115.3 | 114.8 | 114.0 |
| 82.5° | 88.0 | 88.0 | 87.9 | 87.8 | 87.8 | 87.7 | 87.3 | 87.0 | 86.7 | 86.4 | 85.3 |
| 85° | 48.5 | 48.2 | 48.0 | 47.7 | 47.4 | 47.2 | 46.9 | 46.6 | 46.4 | 46.2 | 45.4 |
| 87.5° | 17.2 | 17.3 | 17.3 | 17.4 | 17.4 | 17.4 | 17.3 | 17.2 | 17.1 | 17.0 | 16.6 |
| 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: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-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: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 | 1230.6 |
| 2.5° | 1225.3 | 1227.4 | 1229.5 | 1230.4 | 1229.9 | 1229.5 | 1229.1 | 1228.7 |
| 5° | 1217.0 | 1219.1 | 1221.3 | 1222.0 | 1221.6 | 1221.0 | 1220.5 | 1219.9 |
| 7.5° | 1203.3 | 1205.4 | 1207.6 | 1208.3 | 1207.7 | 1207.1 | 1206.6 | 1205.9 |
| 10° | 1191.0 | 1193.1 | 1195.2 | 1195.9 | 1195.1 | 1194.3 | 1193.5 | 1192.8 |
| 12.5° | 1176.5 | 1177.9 | 1179.5 | 1179.9 | 1179.3 | 1178.8 | 1178.1 | 1177.6 |
| 15° | 1151.0 | 1152.1 | 1153.2 | 1153.0 | 1151.7 | 1150.4 | 1149.1 | 1147.7 |
| 17.5° | 1120.8 | 1122.0 | 1123.3 | 1123.2 | 1122.0 | 1120.7 | 1119.5 | 1118.2 |
| 20° | 1097.3 | 1098.1 | 1098.9 | 1098.7 | 1097.7 | 1096.6 | 1095.6 | 1094.5 |
| 22.5° | 1072.4 | 1072.5 | 1072.6 | 1072.5 | 1071.7 | 1071.1 | 1070.5 | 1069.9 |
| 25° | 1031.7 | 1032.2 | 1032.7 | 1032.7 | 1032.2 | 1031.7 | 1031.2 | 1030.6 |
| 27.5° | 991.7 | 990.9 | 990.1 | 989.1 | 987.7 | 986.5 | 985.3 | 984.0 |
| 30° | 960.4 | 959.7 | 958.9 | 957.9 | 956.9 | 955.8 | 954.8 | 953.7 |
| 32.5° | 929.8 | 928.4 | 926.9 | 925.7 | 924.7 | 923.6 | 922.6 | 921.5 |
| 35° | 880.7 | 879.1 | 877.6 | 876.1 | 874.9 | 873.5 | 872.2 | 870.8 |
| 37.5° | 831.5 | 829.6 | 827.6 | 826.0 | 824.7 | 823.5 | 822.2 | 820.9 |
| 40° | 797.5 | 795.1 | 792.8 | 791.0 | 790.1 | 789.0 | 787.9 | 786.8 |
| 42.5° | 763.9 | 761.3 | 758.8 | 756.8 | 755.3 | 753.9 | 752.3 | 750.9 |
| 45° | 712.5 | 709.5 | 706.7 | 704.7 | 703.6 | 702.6 | 701.5 | 700.5 |
| 47.5° | 658.9 | 655.9 | 652.8 | 650.5 | 649.0 | 647.5 | 646.0 | 644.4 |
| 50° | 624.5 | 620.8 | 617.2 | 614.7 | 613.3 | 612.0 | 610.7 | 609.4 |
| 52.5° | 588.8 | 585.8 | 582.7 | 580.3 | 578.6 | 576.8 | 575.2 | 573.4 |
| 55° | 535.7 | 532.4 | 529.3 | 527.1 | 525.8 | 524.4 | 523.2 | 521.8 |
| 57.5° | 480.4 | 477.2 | 474.1 | 472.1 | 471.1 | 470.1 | 469.1 | 468.1 |
| 60° | 443.9 | 441.0 | 438.1 | 436.2 | 435.4 | 434.6 | 433.8 | 433.1 |
| 62.5° | 409.2 | 406.5 | 403.9 | 402.1 | 401.0 | 400.0 | 399.0 | 398.1 |
| 65° | 356.1 | 353.8 | 351.4 | 349.6 | 348.3 | 347.0 | 345.6 | 344.3 |
| 67.5° | 303.7 | 301.8 | 300.1 | 298.6 | 297.6 | 296.5 | 295.4 | 294.4 |
| 70° | 269.7 | 267.8 | 266.0 | 264.5 | 263.5 | 262.4 | 261.4 | 260.3 |
| 72.5° | 237.5 | 235.6 | 233.8 | 232.5 | 231.6 | 230.8 | 229.9 | 229.1 |
| 75° | 187.3 | 185.7 | 184.2 | 183.7 | 184.2 | 184.8 | 185.2 | 185.7 |
| 77.5° | 142.6 | 141.8 | 141.0 | 140.2 | 139.5 | 138.8 | 138.0 | 137.2 |
| 80° | 113.2 | 112.4 | 111.6 | 110.9 | 110.4 | 109.9 | 109.4 | 108.9 |
| 82.5° | 84.4 | 83.4 | 82.4 | 81.9 | 81.7 | 81.6 | 81.5 | 81.4 |
| 85° | 44.6 | 43.8 | 43.0 | 42.4 | 42.2 | 41.9 | 41.6 | 41.4 |
| 87.5° | 16.2 | 15.8 | 15.3 | 15.1 | 15.0 | 14.8 | 14.7 | 14.6 |
| 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: P331417-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-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)