

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: P332084-940

Luminaire Tested: **S123DIP-S1165D1195U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332084-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1195U940-4F0-1E-UDD-D
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8580.4 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: General Diffuse

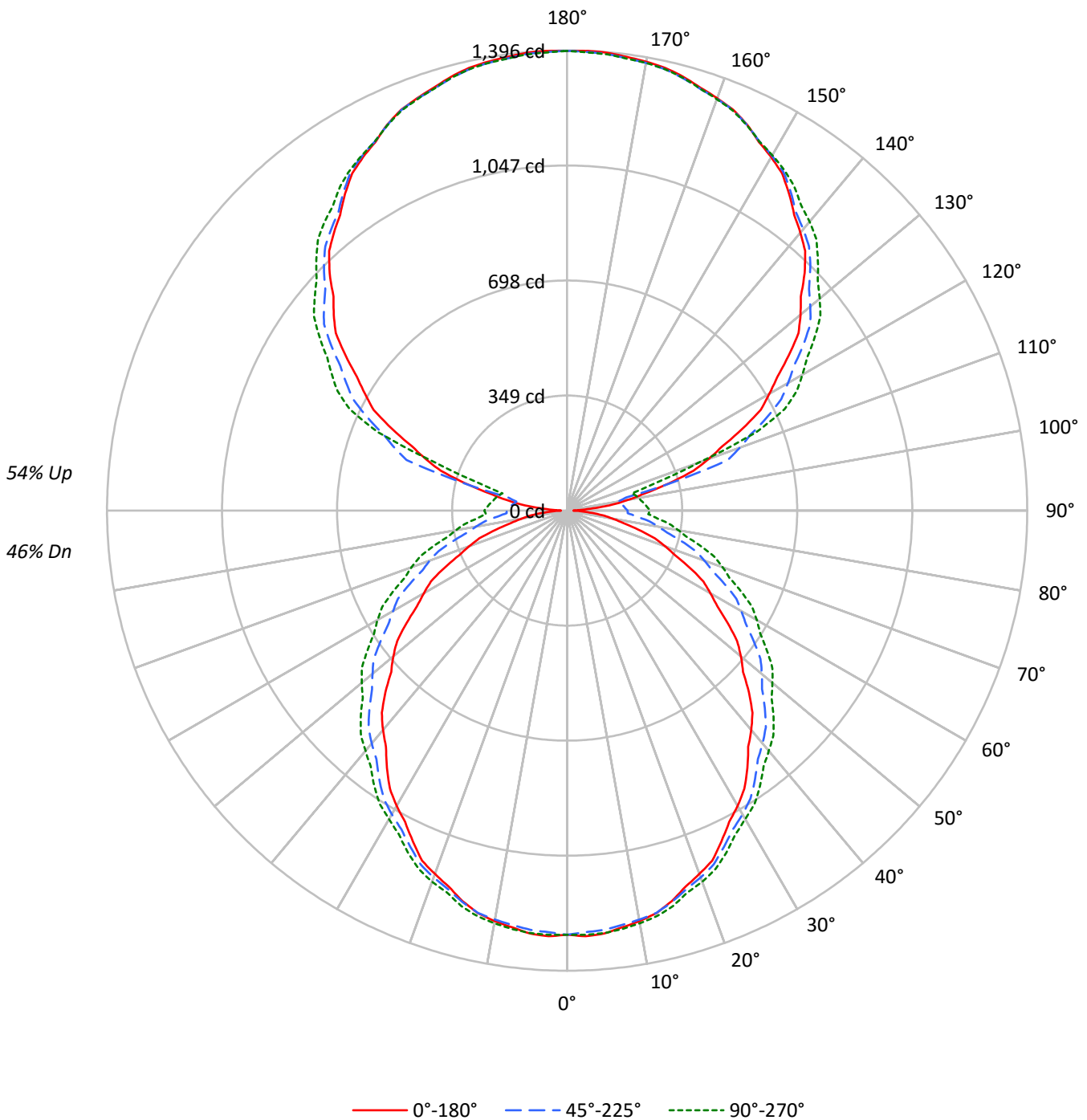
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 66 | 66 | 66 | 53 | 53 | 53 | 46 | | | | |
| 1 | 96 | 91 | 87 | 83 | 88 | 84 | 80 | 77 | 70 | 67 | 65 | 57 | 55 | 53 | 45 | 44 | 42 | 37 | | | | |
| 2 | 87 | 79 | 73 | 67 | 79 | 73 | 67 | 62 | 61 | 56 | 53 | 49 | 46 | 44 | 39 | 37 | 35 | 30 | | | | |
| 3 | 79 | 69 | 62 | 55 | 72 | 64 | 57 | 52 | 53 | 48 | 44 | 43 | 40 | 37 | 34 | 32 | 29 | 25 | | | | |
| 4 | 72 | 61 | 53 | 47 | 66 | 56 | 49 | 43 | 47 | 41 | 37 | 38 | 34 | 31 | 30 | 27 | 25 | 21 | | | | |
| 5 | 66 | 54 | 46 | 40 | 60 | 50 | 43 | 37 | 42 | 36 | 32 | 34 | 30 | 27 | 27 | 24 | 22 | 18 | | | | |
| 6 | 61 | 48 | 40 | 34 | 56 | 45 | 37 | 32 | 38 | 32 | 28 | 31 | 27 | 23 | 25 | 21 | 19 | 16 | | | | |
| 7 | 56 | 44 | 36 | 30 | 51 | 40 | 33 | 28 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 19 | 17 | 14 | | | | |
| 8 | 52 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 13 | | | | |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 11 | | | | |
| 10 | 45 | 33 | 26 | 21 | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 14 | 12 | 10 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13850 | 13850 | 13850 |
| 5° | 13894 | 13501 | 13509 |
| 10° | 13769 | 13190 | 13124 |
| 15° | 13592 | 12837 | 12705 |
| 20° | 13338 | 12435 | 12243 |
| 25° | 13025 | 11969 | 11757 |
| 30° | 12705 | 11553 | 11264 |
| 35° | 12344 | 11111 | 10871 |
| 40° | 12002 | 10709 | 10450 |
| 45° | 11622 | 10323 | 10113 |
| 50° | 11245 | 9942 | 9744 |
| 55° | 10831 | 9553 | 9410 |
| 60° | 10426 | 9156 | 9068 |
| 65° | 10013 | 8733 | 8661 |
| 70° | 9389 | 8257 | 8243 |
| 75° | 8597 | 7713 | 7819 |
| 80° | 7695 | 7181 | 7334 |
| 85° | 6853 | 6811 | 7053 |



TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.0 | 1.4 |
| 10°-20° | 347.7 | 4.1 |
| 20°-30° | 520.1 | 6.1 |
| 30°-40° | 621.1 | 7.2 |
| 40°-50° | 649.8 | 7.6 |
| 50°-60° | 609.8 | 7.1 |
| 60°-70° | 509.3 | 5.9 |
| 70°-80° | 364.4 | 4.2 |
| 80°-90° | 221.2 | 2.6 |
| 90°-100° | 187.0 | 2.2 |
| 100°-110° | 341.8 | 4.0 |
| 110°-120° | 647.3 | 7.5 |
| 120°-130° | 777.3 | 9.1 |
| 130°-140° | 806.8 | 9.4 |
| 140°-150° | 742.1 | 8.6 |
| 150°-160° | 595.7 | 6.9 |
| 160°-170° | 384.4 | 4.5 |
| 170°-180° | 132.5 | 1.5 |
| 0°-30° | 989.8 | 11.5 |
| 0°-40° | 1610.9 | 18.8 |
| 0°-60° | 2870.5 | 33.5 |
| 0°-90° | 3965.4 | 46.2 |
| 90°-120° | 1176.2 | 13.7 |
| 90°-150° | 3502.4 | 40.8 |
| 90°-180° | 4615.0 | 53.8 |
| 0°-180° | 8580.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1287 | 1287 | 1287 | 1287 | 1287 | |
| 5° | 1288 | 1285 | 1277 | 1287 | 1287 | 122 |
| 15° | 1226 | 1230 | 1229 | 1242 | 1242 | 345 |
| 25° | 1107 | 1121 | 1126 | 1143 | 1144 | 510 |
| 35° | 953 | 975 | 994 | 1014 | 1020 | 596 |
| 45° | 779 | 813 | 848 | 874 | 886 | 601 |
| 55° | 594 | 641 | 691 | 727 | 740 | 532 |
| 65° | 411 | 466 | 527 | 568 | 583 | 406 |
| 75° | 223 | 289 | 359 | 403 | 422 | 238 |
| 85° | 69 | 139 | 213 | 259 | 275 | 72 |
| 90° | 19 | 99 | 183 | 233 | 251 | 15 |
| 95° | 79 | 95 | 171 | 220 | 236 | 90 |
| 105° | 320 | 361 | 332 | 197 | 203 | 339 |
| 115° | 586 | 611 | 669 | 711 | 728 | 579 |
| 125° | 821 | 831 | 874 | 904 | 917 | 733 |
| 135° | 1019 | 1025 | 1044 | 1070 | 1076 | 784 |
| 145° | 1174 | 1180 | 1182 | 1195 | 1201 | 734 |
| 155° | 1292 | 1290 | 1291 | 1295 | 1290 | 595 |
| 165° | 1362 | 1359 | 1358 | 1366 | 1359 | 385 |
| 175° | 1394 | 1390 | 1390 | 1397 | 1389 | 133 |
| 180° | 1394 | 1394 | 1394 | 1394 | 1394 | |



TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 |
| 2.5° | 1292.4 | 1291.6 | 1290.8 | 1290.1 | 1289.3 | 1288.0 | 1286.0 | 1284.0 | 1282.0 | 1280.1 | 1282.0 |
| 5° | 1288.2 | 1287.5 | 1286.9 | 1286.3 | 1285.7 | 1284.4 | 1282.5 | 1280.7 | 1278.8 | 1276.9 | 1279.4 |
| 7.5° | 1275.5 | 1275.7 | 1275.8 | 1275.9 | 1276.0 | 1275.2 | 1273.4 | 1271.6 | 1269.8 | 1267.9 | 1271.0 |
| 10° | 1264.4 | 1265.0 | 1265.6 | 1266.2 | 1266.9 | 1266.3 | 1264.8 | 1263.2 | 1261.7 | 1260.1 | 1263.2 |
| 12.5° | 1250.9 | 1251.7 | 1252.6 | 1253.5 | 1254.4 | 1254.3 | 1253.2 | 1252.1 | 1251.1 | 1250.0 | 1252.9 |
| 15° | 1226.5 | 1227.4 | 1228.3 | 1229.3 | 1230.2 | 1230.6 | 1230.2 | 1229.9 | 1229.6 | 1229.3 | 1232.4 |
| 17.5° | 1195.6 | 1197.5 | 1199.4 | 1201.2 | 1203.1 | 1204.0 | 1203.9 | 1203.7 | 1203.6 | 1203.5 | 1206.3 |
| 20° | 1173.2 | 1175.1 | 1177.0 | 1178.8 | 1180.7 | 1182.0 | 1182.6 | 1183.2 | 1183.8 | 1184.5 | 1187.2 |
| 22.5° | 1149.7 | 1151.6 | 1153.4 | 1155.3 | 1157.2 | 1158.5 | 1159.4 | 1160.3 | 1161.1 | 1162.0 | 1165.6 |
| 25° | 1107.3 | 1110.4 | 1113.6 | 1116.7 | 1119.8 | 1121.8 | 1122.8 | 1123.6 | 1124.6 | 1125.5 | 1129.6 |
| 27.5° | 1064.7 | 1068.3 | 1071.8 | 1075.4 | 1078.9 | 1081.7 | 1083.7 | 1085.7 | 1087.7 | 1089.7 | 1093.1 |
| 30° | 1034.5 | 1038.5 | 1042.5 | 1046.6 | 1050.6 | 1053.9 | 1056.4 | 1058.9 | 1061.4 | 1063.9 | 1067.6 |
| 32.5° | 1000.8 | 1005.3 | 1009.9 | 1014.4 | 1019.0 | 1022.9 | 1026.1 | 1029.4 | 1032.6 | 1035.8 | 1039.8 |
| 35° | 953.1 | 958.1 | 963.1 | 968.1 | 973.1 | 977.6 | 981.7 | 985.7 | 989.7 | 993.8 | 998.4 |
| 37.5° | 902.7 | 908.3 | 913.9 | 919.5 | 925.1 | 930.4 | 935.4 | 940.4 | 945.4 | 950.4 | 955.6 |
| 40° | 869.1 | 874.7 | 880.3 | 885.8 | 891.4 | 897.4 | 903.7 | 909.8 | 916.1 | 922.3 | 927.6 |
| 42.5° | 832.1 | 838.9 | 845.8 | 852.6 | 859.4 | 866.1 | 872.6 | 879.0 | 885.6 | 892.1 | 897.9 |
| 45° | 779.4 | 786.8 | 794.2 | 801.7 | 809.2 | 816.9 | 824.7 | 832.4 | 840.3 | 848.0 | 853.9 |
| 47.5° | 724.1 | 732.5 | 741.0 | 749.6 | 758.0 | 766.7 | 775.6 | 784.5 | 793.4 | 802.4 | 809.0 |
| 50° | 688.2 | 697.0 | 705.7 | 714.3 | 723.1 | 732.3 | 742.0 | 751.6 | 761.3 | 770.9 | 778.1 |
| 52.5° | 650.1 | 659.3 | 668.5 | 677.8 | 687.0 | 697.0 | 707.6 | 718.2 | 728.9 | 739.5 | 747.0 |
| 55° | 594.3 | 604.6 | 614.8 | 625.2 | 635.4 | 646.1 | 657.4 | 668.6 | 679.8 | 691.1 | 699.5 |
| 57.5° | 539.9 | 550.6 | 561.3 | 572.0 | 582.8 | 594.3 | 606.5 | 618.8 | 631.1 | 643.4 | 651.8 |
| 60° | 501.8 | 513.0 | 524.2 | 535.5 | 546.6 | 558.7 | 571.4 | 584.2 | 597.0 | 609.8 | 618.5 |
| 62.5° | 465.9 | 477.4 | 488.8 | 500.3 | 511.8 | 524.2 | 537.8 | 551.3 | 564.8 | 578.4 | 587.0 |
| 65° | 410.7 | 422.8 | 435.0 | 447.1 | 459.3 | 472.3 | 485.9 | 499.6 | 513.4 | 527.0 | 536.4 |
| 67.5° | 354.6 | 367.6 | 380.4 | 393.3 | 406.2 | 419.6 | 433.5 | 447.5 | 461.5 | 475.5 | 485.6 |
| 70° | 315.4 | 328.8 | 342.1 | 355.5 | 369.0 | 383.2 | 398.1 | 413.0 | 428.0 | 442.9 | 452.9 |
| 72.5° | 279.5 | 292.9 | 306.3 | 319.7 | 333.1 | 347.5 | 362.9 | 378.4 | 393.9 | 409.3 | 419.5 |
| 75° | 222.8 | 237.6 | 252.2 | 266.8 | 281.4 | 296.5 | 312.1 | 327.7 | 343.2 | 358.8 | 369.1 |
| 77.5° | 173.5 | 188.3 | 203.0 | 217.8 | 232.6 | 247.8 | 263.5 | 279.2 | 294.9 | 310.6 | 321.5 |
| 80° | 138.8 | 154.0 | 169.3 | 184.6 | 199.8 | 215.5 | 231.8 | 248.0 | 264.1 | 280.4 | 291.0 |
| 82.5° | 108.5 | 124.0 | 139.6 | 155.1 | 170.5 | 186.5 | 203.0 | 219.5 | 235.9 | 252.3 | 262.9 |
| 85° | 68.7 | 84.3 | 99.9 | 115.4 | 131.0 | 147.0 | 163.5 | 180.0 | 196.5 | 213.0 | 223.6 |
| 87.5° | 37.5 | 53.5 | 69.5 | 85.4 | 101.4 | 117.6 | 134.1 | 150.6 | 167.1 | 183.5 | 194.3 |
| 90° | 19.3 | 36.8 | 54.4 | 72.0 | 89.5 | 107.7 | 126.6 | 145.5 | 164.3 | 183.2 | 194.7 |
| 92.5° | 36.4 | 49.5 | 62.6 | 75.7 | 88.9 | 104.3 | 122.3 | 140.2 | 158.0 | 175.9 | 187.8 |
| 95° | 78.6 | 81.3 | 84.0 | 86.8 | 89.4 | 99.7 | 117.5 | 135.3 | 153.1 | 170.9 | 182.2 |
| 97.5° | 140.7 | 147.5 | 154.2 | 161.0 | 167.6 | 170.0 | 168.0 | 166.0 | 164.1 | 162.0 | 173.2 |
| 100° | 187.7 | 202.2 | 216.9 | 231.4 | 246.0 | 242.5 | 220.9 | 199.3 | 177.7 | 156.1 | 167.0 |
| 102.5° | 241.3 | 253.6 | 265.8 | 278.1 | 290.4 | 284.0 | 258.9 | 233.7 | 208.6 | 183.4 | 186.5 |
| 105° | 319.9 | 329.9 | 339.9 | 350.0 | 360.0 | 361.3 | 354.0 | 346.7 | 339.3 | 332.0 | 300.0 |
| 107.5° | 401.5 | 409.9 | 418.3 | 426.7 | 435.1 | 447.3 | 463.2 | 479.2 | 495.2 | 511.1 | 489.6 |
| 110° | 455.9 | 463.4 | 470.8 | 478.3 | 485.7 | 497.0 | 511.9 | 527.0 | 542.0 | 557.0 | 557.4 |



TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 509.0 | 515.2 | 521.6 | 527.8 | 534.0 | 544.5 | 558.9 | 573.5 | 587.9 | 602.4 | 610.4 |
| 115° | 586.1 | 591.3 | 596.4 | 601.5 | 606.6 | 615.8 | 629.1 | 642.4 | 655.7 | 669.0 | 678.8 |
| 117.5° | 661.9 | 665.9 | 669.9 | 674.0 | 678.0 | 685.7 | 697.3 | 708.9 | 720.5 | 732.1 | 741.4 |
| 120° | 708.0 | 711.7 | 715.2 | 718.9 | 722.6 | 729.9 | 740.8 | 751.8 | 762.8 | 773.7 | 782.7 |
| 122.5° | 756.1 | 758.6 | 761.1 | 763.7 | 766.2 | 772.8 | 783.4 | 794.1 | 804.7 | 815.4 | 823.6 |
| 125° | 820.6 | 822.4 | 824.3 | 826.1 | 828.0 | 833.8 | 843.8 | 853.7 | 863.7 | 873.6 | 880.7 |
| 127.5° | 884.4 | 885.9 | 887.4 | 888.9 | 890.6 | 895.5 | 904.1 | 912.8 | 921.3 | 929.9 | 936.8 |
| 130° | 924.2 | 925.7 | 927.2 | 928.8 | 930.3 | 934.6 | 941.8 | 949.0 | 956.1 | 963.2 | 970.1 |
| 132.5° | 961.2 | 963.0 | 964.7 | 966.5 | 968.3 | 972.1 | 977.8 | 983.5 | 989.2 | 994.9 | 1001.5 |
| 135° | 1019.1 | 1020.2 | 1021.3 | 1022.3 | 1023.4 | 1026.1 | 1030.5 | 1034.8 | 1039.1 | 1043.5 | 1049.8 |
| 137.5° | 1068.5 | 1070.1 | 1071.6 | 1073.1 | 1074.6 | 1076.6 | 1079.0 | 1081.4 | 1083.9 | 1086.3 | 1092.3 |
| 140° | 1100.6 | 1102.0 | 1103.4 | 1104.7 | 1106.1 | 1107.6 | 1109.3 | 1110.9 | 1112.5 | 1114.1 | 1119.7 |
| 142.5° | 1131.2 | 1132.4 | 1133.5 | 1134.7 | 1135.8 | 1136.8 | 1137.6 | 1138.5 | 1139.4 | 1140.3 | 1145.2 |
| 145° | 1174.1 | 1175.5 | 1176.8 | 1178.0 | 1179.4 | 1180.3 | 1180.7 | 1181.2 | 1181.6 | 1182.1 | 1185.0 |
| 147.5° | 1213.2 | 1214.2 | 1215.3 | 1216.3 | 1217.4 | 1218.2 | 1218.6 | 1219.1 | 1219.5 | 1219.9 | 1221.2 |
| 150° | 1238.1 | 1238.7 | 1239.4 | 1240.1 | 1240.8 | 1241.4 | 1241.8 | 1242.2 | 1242.8 | 1243.2 | 1243.7 |
| 152.5° | 1260.4 | 1260.7 | 1261.1 | 1261.3 | 1261.7 | 1261.9 | 1262.2 | 1262.6 | 1262.8 | 1263.1 | 1263.9 |
| 155° | 1291.9 | 1291.5 | 1290.9 | 1290.5 | 1290.0 | 1289.9 | 1290.1 | 1290.4 | 1290.7 | 1290.8 | 1292.0 |
| 157.5° | 1316.3 | 1316.3 | 1316.3 | 1316.2 | 1316.2 | 1316.0 | 1315.8 | 1315.5 | 1315.4 | 1315.1 | 1316.5 |
| 160° | 1331.2 | 1331.1 | 1330.8 | 1330.6 | 1330.3 | 1330.1 | 1329.9 | 1329.6 | 1329.5 | 1329.2 | 1330.6 |
| 162.5° | 1345.3 | 1344.8 | 1344.2 | 1343.5 | 1342.9 | 1342.6 | 1342.3 | 1342.1 | 1341.8 | 1341.6 | 1343.2 |
| 165° | 1362.4 | 1361.6 | 1360.9 | 1360.3 | 1359.6 | 1359.1 | 1358.9 | 1358.6 | 1358.4 | 1358.2 | 1360.0 |
| 167.5° | 1375.6 | 1374.7 | 1373.8 | 1372.9 | 1371.9 | 1371.5 | 1371.5 | 1371.5 | 1371.5 | 1371.5 | 1373.3 |
| 170° | 1383.0 | 1382.2 | 1381.3 | 1380.3 | 1379.4 | 1378.9 | 1378.9 | 1378.9 | 1378.9 | 1378.9 | 1380.7 |
| 172.5° | 1388.0 | 1387.0 | 1385.8 | 1384.7 | 1383.6 | 1383.1 | 1383.3 | 1383.5 | 1383.7 | 1383.8 | 1385.7 |
| 175° | 1394.5 | 1393.3 | 1392.1 | 1391.0 | 1389.8 | 1389.4 | 1389.6 | 1389.8 | 1390.1 | 1390.3 | 1392.0 |
| 177.5° | 1396.2 | 1395.2 | 1394.3 | 1393.4 | 1392.4 | 1392.0 | 1392.2 | 1392.4 | 1392.6 | 1392.8 | 1394.3 |
| 180° | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 |



TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 |
| 2.5° | 1284.0 | 1286.0 | 1288.0 | 1288.9 | 1288.6 | 1288.3 | 1288.1 | 1287.9 |
| 5° | 1281.9 | 1284.4 | 1286.9 | 1288.0 | 1287.7 | 1287.4 | 1287.1 | 1286.7 |
| 7.5° | 1274.2 | 1277.3 | 1280.4 | 1281.8 | 1281.4 | 1281.0 | 1280.7 | 1280.3 |
| 10° | 1266.3 | 1269.4 | 1272.6 | 1273.8 | 1273.2 | 1272.6 | 1271.9 | 1271.3 |
| 12.5° | 1255.8 | 1258.6 | 1261.5 | 1262.6 | 1261.9 | 1261.3 | 1260.7 | 1260.1 |
| 15° | 1235.5 | 1238.6 | 1241.7 | 1243.1 | 1242.9 | 1242.5 | 1242.2 | 1241.9 |
| 17.5° | 1209.1 | 1211.9 | 1214.7 | 1215.8 | 1215.5 | 1215.0 | 1214.6 | 1214.2 |
| 20° | 1190.0 | 1192.8 | 1195.6 | 1197.2 | 1197.5 | 1197.8 | 1198.1 | 1198.5 |
| 22.5° | 1169.1 | 1172.7 | 1176.2 | 1177.9 | 1177.7 | 1177.5 | 1177.3 | 1177.1 |
| 25° | 1133.6 | 1137.7 | 1141.7 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 |
| 27.5° | 1096.6 | 1100.1 | 1103.6 | 1105.5 | 1105.7 | 1106.0 | 1106.3 | 1106.5 |
| 30° | 1071.4 | 1075.1 | 1078.8 | 1080.7 | 1080.7 | 1080.7 | 1080.7 | 1080.7 |
| 32.5° | 1043.8 | 1047.8 | 1051.8 | 1054.2 | 1054.9 | 1055.7 | 1056.4 | 1057.1 |
| 35° | 1003.2 | 1007.8 | 1012.4 | 1015.5 | 1016.7 | 1018.0 | 1019.2 | 1020.4 |
| 37.5° | 960.9 | 966.3 | 971.5 | 974.6 | 975.7 | 976.7 | 977.7 | 978.7 |
| 40° | 932.9 | 938.2 | 943.5 | 946.7 | 948.0 | 949.2 | 950.5 | 951.7 |
| 42.5° | 903.7 | 909.5 | 915.3 | 919.0 | 920.7 | 922.5 | 924.2 | 926.0 |
| 45° | 859.9 | 865.8 | 871.7 | 875.9 | 878.4 | 880.9 | 883.4 | 885.8 |
| 47.5° | 815.6 | 822.3 | 829.0 | 833.3 | 835.2 | 837.1 | 839.1 | 841.0 |
| 50° | 785.2 | 792.5 | 799.6 | 804.2 | 806.5 | 808.6 | 810.8 | 813.0 |
| 52.5° | 754.4 | 761.8 | 769.2 | 774.3 | 776.9 | 779.6 | 782.3 | 785.0 |
| 55° | 707.8 | 716.2 | 724.7 | 730.1 | 732.6 | 735.1 | 737.6 | 740.1 |
| 57.5° | 660.3 | 668.8 | 677.3 | 683.0 | 685.9 | 688.8 | 691.8 | 694.6 |
| 60° | 627.1 | 635.9 | 644.6 | 650.7 | 654.2 | 657.5 | 660.9 | 664.4 |
| 62.5° | 595.8 | 604.5 | 613.2 | 619.2 | 622.3 | 625.5 | 628.7 | 631.9 |
| 65° | 545.7 | 555.1 | 564.5 | 570.6 | 573.7 | 576.8 | 580.0 | 583.1 |
| 67.5° | 495.9 | 506.1 | 516.3 | 522.7 | 525.4 | 528.0 | 530.6 | 533.2 |
| 70° | 462.9 | 472.9 | 482.8 | 489.4 | 492.5 | 495.6 | 498.6 | 501.8 |
| 72.5° | 429.7 | 440.0 | 450.1 | 456.8 | 459.9 | 463.1 | 466.2 | 469.3 |
| 75° | 379.4 | 389.7 | 399.9 | 407.0 | 410.7 | 414.5 | 418.2 | 421.9 |
| 77.5° | 332.3 | 343.1 | 354.0 | 360.8 | 363.7 | 366.6 | 369.4 | 372.3 |
| 80° | 301.5 | 312.1 | 322.7 | 329.6 | 332.7 | 335.8 | 338.9 | 342.0 |
| 82.5° | 273.5 | 284.1 | 294.6 | 301.5 | 304.6 | 307.7 | 310.9 | 314.0 |
| 85° | 234.3 | 244.9 | 255.4 | 262.3 | 265.4 | 268.5 | 271.6 | 274.7 |
| 87.5° | 205.1 | 215.9 | 226.7 | 233.6 | 236.8 | 240.0 | 243.3 | 246.5 |
| 90° | 206.3 | 217.8 | 229.3 | 236.8 | 240.4 | 244.0 | 247.5 | 251.1 |
| 92.5° | 199.6 | 211.4 | 223.2 | 230.7 | 233.8 | 236.9 | 240.1 | 243.3 |
| 95° | 193.4 | 204.6 | 216.0 | 223.1 | 226.2 | 229.3 | 232.5 | 235.6 |
| 97.5° | 184.3 | 195.4 | 206.5 | 213.7 | 217.1 | 220.4 | 223.8 | 227.1 |
| 100° | 177.9 | 188.8 | 199.7 | 206.8 | 210.1 | 213.5 | 216.8 | 220.2 |
| 102.5° | 189.6 | 192.6 | 195.6 | 199.0 | 202.5 | 206.1 | 209.6 | 213.1 |
| 105° | 268.0 | 235.9 | 203.9 | 189.5 | 192.8 | 196.1 | 199.3 | 202.6 |
| 107.5° | 468.1 | 446.6 | 425.0 | 400.3 | 372.3 | 344.3 | 316.4 | 288.4 |
| 110° | 557.9 | 558.5 | 558.9 | 543.9 | 513.5 | 483.1 | 452.7 | 422.2 |



TEST NUMBER: P332084-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 618.4 | 626.4 | 634.4 | 636.2 | 632.0 | 627.9 | 623.7 | 619.4 |
| 115° | 688.5 | 698.3 | 708.1 | 714.6 | 718.1 | 721.5 | 724.9 | 728.3 |
| 117.5° | 750.6 | 759.8 | 769.1 | 775.0 | 777.7 | 780.2 | 782.8 | 785.5 |
| 120° | 791.8 | 800.8 | 809.8 | 815.3 | 817.5 | 819.7 | 821.9 | 824.0 |
| 122.5° | 831.8 | 840.0 | 848.2 | 853.5 | 855.8 | 858.2 | 860.5 | 862.9 |
| 125° | 887.7 | 894.7 | 901.7 | 906.5 | 909.1 | 911.8 | 914.4 | 917.0 |
| 127.5° | 943.7 | 950.6 | 957.5 | 961.8 | 963.4 | 965.1 | 966.8 | 968.4 |
| 130° | 977.0 | 983.7 | 990.6 | 994.7 | 996.1 | 997.6 | 999.0 | 1000.3 |
| 132.5° | 1008.1 | 1014.7 | 1021.3 | 1025.3 | 1026.8 | 1028.2 | 1029.7 | 1031.2 |
| 135° | 1056.1 | 1062.4 | 1068.7 | 1072.3 | 1073.2 | 1074.0 | 1074.9 | 1075.8 |
| 137.5° | 1098.3 | 1104.4 | 1110.4 | 1113.9 | 1115.1 | 1116.2 | 1117.2 | 1118.4 |
| 140° | 1125.3 | 1130.9 | 1136.5 | 1139.9 | 1140.9 | 1142.0 | 1143.2 | 1144.2 |
| 142.5° | 1150.1 | 1155.0 | 1159.9 | 1162.9 | 1163.8 | 1164.7 | 1165.6 | 1166.5 |
| 145° | 1187.9 | 1191.0 | 1193.9 | 1196.0 | 1197.2 | 1198.5 | 1199.7 | 1201.0 |
| 147.5° | 1222.4 | 1223.6 | 1224.9 | 1225.5 | 1225.5 | 1225.6 | 1225.7 | 1225.7 |
| 150° | 1244.1 | 1244.6 | 1245.0 | 1245.3 | 1245.2 | 1245.1 | 1245.0 | 1245.0 |
| 152.5° | 1264.7 | 1265.6 | 1266.4 | 1266.3 | 1265.4 | 1264.4 | 1263.6 | 1262.6 |
| 155° | 1293.2 | 1294.3 | 1295.5 | 1295.3 | 1294.0 | 1292.6 | 1291.2 | 1289.9 |
| 157.5° | 1317.9 | 1319.2 | 1320.6 | 1320.4 | 1318.7 | 1316.8 | 1315.0 | 1313.2 |
| 160° | 1331.9 | 1333.3 | 1334.7 | 1334.6 | 1333.0 | 1331.4 | 1329.7 | 1328.1 |
| 162.5° | 1344.8 | 1346.3 | 1347.9 | 1347.9 | 1346.5 | 1345.1 | 1343.6 | 1342.2 |
| 165° | 1361.9 | 1363.7 | 1365.6 | 1365.7 | 1364.1 | 1362.4 | 1360.8 | 1359.2 |
| 167.5° | 1375.1 | 1377.0 | 1378.9 | 1378.9 | 1377.0 | 1375.1 | 1373.3 | 1371.5 |
| 170° | 1382.6 | 1384.5 | 1386.3 | 1386.3 | 1384.5 | 1382.6 | 1380.7 | 1378.9 |
| 172.5° | 1387.6 | 1389.4 | 1391.2 | 1391.2 | 1389.1 | 1387.1 | 1385.1 | 1383.0 |
| 175° | 1393.6 | 1395.2 | 1396.8 | 1396.6 | 1394.8 | 1392.9 | 1391.2 | 1389.3 |
| 177.5° | 1395.7 | 1397.2 | 1398.6 | 1398.5 | 1396.7 | 1394.8 | 1392.9 | 1391.2 |
| 180° | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 |

(END OF REPORT)