

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: P332655-940

Luminaire Tested: **S124DIP-S1020D1035U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332655-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1035U940-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7438.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

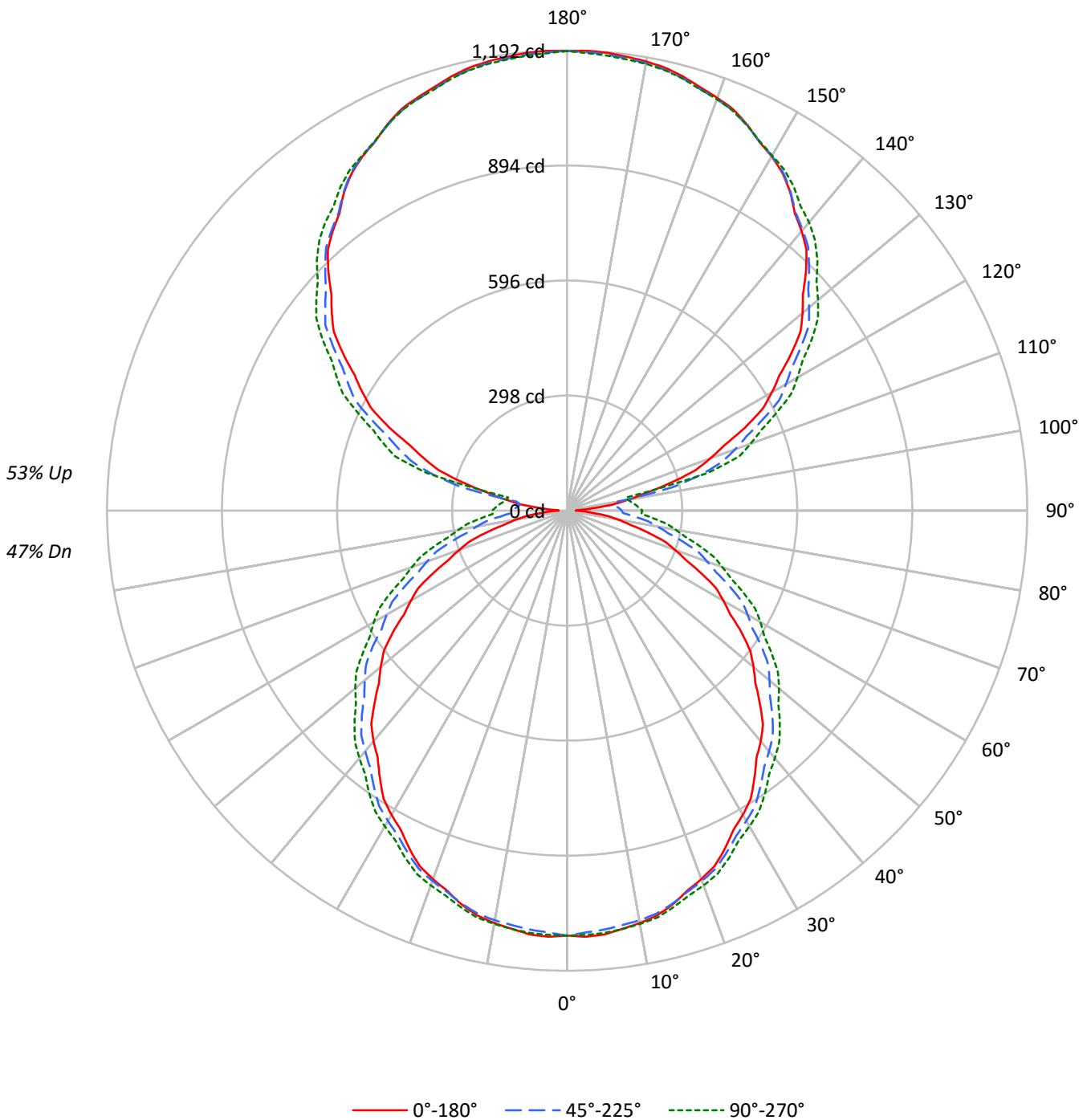
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1 | 96 | 91 | 87 | 83 | 88 | 84 | 80 | 77 | 70 | 67 | 65 | 57 | 55 | 54 | 45 | 44 | 43 | 37 |
| 2 | 87 | 79 | 73 | 67 | 80 | 73 | 67 | 62 | 61 | 57 | 53 | 50 | 47 | 44 | 39 | 37 | 35 | 31 |
| 3 | 79 | 69 | 62 | 56 | 72 | 64 | 57 | 52 | 53 | 48 | 44 | 44 | 40 | 37 | 35 | 32 | 30 | 25 |
| 4 | 72 | 61 | 53 | 47 | 66 | 56 | 49 | 43 | 47 | 42 | 37 | 39 | 34 | 31 | 31 | 28 | 25 | 21 |
| 5 | 66 | 54 | 46 | 40 | 60 | 50 | 43 | 37 | 42 | 36 | 32 | 34 | 30 | 27 | 28 | 24 | 22 | 18 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 37 | 32 | 38 | 32 | 28 | 31 | 27 | 23 | 25 | 22 | 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 | 14 | 11 |
| 10 | 45 | 33 | 26 | 21 | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8888 | 8888 | 8888 |
| 5° | 8916 | 8686 | 8711 |
| 10° | 8861 | 8544 | 8538 |
| 15° | 8782 | 8380 | 8334 |
| 20° | 8662 | 8198 | 8135 |
| 25° | 8527 | 7995 | 7918 |
| 30° | 8381 | 7793 | 7693 |
| 35° | 8216 | 7585 | 7497 |
| 40° | 8083 | 7388 | 7292 |
| 45° | 7887 | 7207 | 7117 |
| 50° | 7721 | 6996 | 6931 |
| 55° | 7549 | 6799 | 6714 |
| 60° | 7282 | 6547 | 6515 |
| 65° | 6989 | 6278 | 6271 |
| 70° | 6633 | 5968 | 5986 |
| 75° | 6136 | 5628 | 5730 |
| 80° | 5588 | 5302 | 5476 |
| 85° | 4893 | 5013 | 5328 |



TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.3 | 1.4 |
| 10°-20° | 298.7 | 4.0 |
| 20°-30° | 451.7 | 6.1 |
| 30°-40° | 546.5 | 7.3 |
| 40°-50° | 577.7 | 7.8 |
| 50°-60° | 543.7 | 7.3 |
| 60°-70° | 451.1 | 6.1 |
| 70°-80° | 316.9 | 4.3 |
| 80°-90° | 182.6 | 2.5 |
| 90°-100° | 147.1 | 2.0 |
| 100°-110° | 338.3 | 4.5 |
| 110°-120° | 549.3 | 7.4 |
| 120°-130° | 660.1 | 8.9 |
| 130°-140° | 687.2 | 9.2 |
| 140°-150° | 633.2 | 8.5 |
| 150°-160° | 508.5 | 6.8 |
| 160°-170° | 328.0 | 4.4 |
| 170°-180° | 113.0 | 1.5 |
| 0°-30° | 854.6 | 11.5 |
| 0°-40° | 1401.1 | 18.8 |
| 0°-60° | 2522.6 | 33.9 |
| 0°-90° | 3473.2 | 46.7 |
| 90°-120° | 1034.7 | 13.9 |
| 90°-150° | 3015.2 | 40.5 |
| 90°-180° | 3965.0 | 53.3 |
| 0°-180° | 7438.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1101 | 1101 | 1101 | 1101 | 1101 | |
| 5° | 1102 | 1098 | 1090 | 1099 | 1098 | 105 |
| 15° | 1057 | 1058 | 1054 | 1065 | 1064 | 298 |
| 25° | 967 | 974 | 978 | 991 | 992 | 445 |
| 35° | 846 | 860 | 873 | 889 | 894 | 529 |
| 45° | 705 | 729 | 752 | 772 | 779 | 545 |
| 55° | 552 | 579 | 615 | 639 | 647 | 492 |
| 65° | 382 | 422 | 464 | 493 | 504 | 379 |
| 75° | 212 | 258 | 309 | 343 | 355 | 226 |
| 85° | 65 | 117 | 173 | 208 | 222 | 70 |
| 90° | 22 | 82 | 142 | 181 | 194 | 15 |
| 95° | 65 | 78 | 127 | 164 | 178 | 76 |
| 105° | 279 | 310 | 359 | 395 | 376 | 293 |
| 115° | 508 | 523 | 560 | 588 | 598 | 500 |
| 125° | 708 | 712 | 740 | 765 | 774 | 632 |
| 135° | 875 | 875 | 886 | 907 | 917 | 674 |
| 145° | 1007 | 1008 | 1008 | 1017 | 1024 | 629 |
| 155° | 1103 | 1104 | 1101 | 1104 | 1102 | 508 |
| 165° | 1163 | 1159 | 1159 | 1165 | 1158 | 329 |
| 175° | 1190 | 1185 | 1186 | 1193 | 1183 | 113 |
| 180° | 1190 | 1190 | 1190 | 1190 | 1190 | |



TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 |
| 2.5° | 1104.9 | 1104.3 | 1103.6 | 1103.0 | 1102.2 | 1101.1 | 1099.3 | 1097.6 | 1095.8 | 1094.0 | 1095.6 |
| 5° | 1102.2 | 1101.4 | 1100.5 | 1099.7 | 1098.9 | 1097.5 | 1095.6 | 1093.7 | 1091.8 | 1089.8 | 1092.1 |
| 7.5° | 1092.8 | 1092.3 | 1091.8 | 1091.4 | 1090.8 | 1089.8 | 1088.2 | 1086.6 | 1085.0 | 1083.4 | 1085.9 |
| 10° | 1084.9 | 1084.7 | 1084.4 | 1084.1 | 1083.9 | 1083.0 | 1081.6 | 1080.3 | 1078.9 | 1077.5 | 1080.0 |
| 12.5° | 1074.1 | 1074.1 | 1074.0 | 1073.9 | 1073.9 | 1073.4 | 1072.5 | 1071.5 | 1070.6 | 1069.6 | 1071.9 |
| 15° | 1056.6 | 1056.9 | 1057.1 | 1057.4 | 1057.7 | 1057.4 | 1056.6 | 1055.8 | 1054.9 | 1054.1 | 1056.6 |
| 17.5° | 1032.7 | 1033.5 | 1034.3 | 1035.1 | 1036.0 | 1036.3 | 1036.1 | 1036.0 | 1035.8 | 1035.6 | 1038.1 |
| 20° | 1015.9 | 1016.7 | 1017.5 | 1018.3 | 1019.2 | 1019.8 | 1020.0 | 1020.3 | 1020.6 | 1020.8 | 1023.6 |
| 22.5° | 997.1 | 998.2 | 999.3 | 1000.3 | 1001.3 | 1002.1 | 1002.6 | 1003.1 | 1003.5 | 1004.1 | 1006.8 |
| 25° | 966.6 | 968.2 | 969.8 | 971.5 | 973.1 | 974.4 | 975.2 | 976.1 | 976.9 | 977.7 | 980.7 |
| 27.5° | 932.6 | 935.0 | 937.4 | 939.8 | 942.2 | 944.1 | 945.3 | 946.6 | 947.8 | 949.0 | 951.9 |
| 30° | 909.9 | 912.0 | 914.3 | 916.4 | 918.6 | 920.7 | 922.6 | 924.5 | 926.4 | 928.4 | 931.4 |
| 32.5° | 885.2 | 887.9 | 890.5 | 893.1 | 895.7 | 898.1 | 900.3 | 902.4 | 904.6 | 906.7 | 910.1 |
| 35° | 845.8 | 849.1 | 852.3 | 855.6 | 858.9 | 861.9 | 864.7 | 867.4 | 870.1 | 872.9 | 876.7 |
| 37.5° | 806.0 | 809.9 | 813.6 | 817.4 | 821.2 | 824.7 | 828.1 | 831.5 | 835.0 | 838.4 | 842.2 |
| 40° | 780.4 | 784.0 | 787.6 | 791.1 | 794.7 | 798.3 | 802.2 | 806.0 | 809.9 | 813.7 | 817.8 |
| 42.5° | 750.8 | 754.8 | 758.8 | 762.9 | 766.8 | 771.1 | 775.5 | 780.1 | 784.5 | 789.1 | 793.6 |
| 45° | 705.2 | 710.4 | 715.6 | 720.9 | 726.0 | 731.2 | 736.5 | 741.6 | 746.8 | 752.1 | 756.7 |
| 47.5° | 661.6 | 666.9 | 672.3 | 677.7 | 683.1 | 688.8 | 694.7 | 700.8 | 706.9 | 712.8 | 717.6 |
| 50° | 630.0 | 636.1 | 642.0 | 648.1 | 654.1 | 660.1 | 666.2 | 672.2 | 678.2 | 684.2 | 689.7 |
| 52.5° | 598.4 | 604.5 | 610.5 | 616.5 | 622.6 | 629.0 | 635.9 | 642.8 | 649.7 | 656.7 | 662.1 |
| 55° | 552.3 | 558.1 | 563.8 | 569.6 | 575.3 | 582.3 | 590.6 | 598.8 | 607.0 | 615.2 | 620.7 |
| 57.5° | 500.8 | 507.9 | 515.1 | 522.2 | 529.3 | 536.9 | 545.1 | 553.3 | 561.4 | 569.6 | 576.1 |
| 60° | 467.3 | 474.4 | 481.5 | 488.7 | 495.8 | 503.8 | 512.9 | 521.9 | 530.9 | 540.0 | 546.3 |
| 62.5° | 434.7 | 442.5 | 450.3 | 458.1 | 465.8 | 474.2 | 483.3 | 492.3 | 501.4 | 510.4 | 516.7 |
| 65° | 382.2 | 390.9 | 399.8 | 408.5 | 417.2 | 426.3 | 435.6 | 445.0 | 454.2 | 463.6 | 470.4 |
| 67.5° | 331.6 | 341.0 | 350.3 | 359.6 | 368.9 | 378.5 | 388.5 | 398.5 | 408.5 | 418.5 | 425.4 |
| 70° | 297.1 | 306.5 | 315.8 | 325.0 | 334.4 | 344.3 | 354.6 | 365.1 | 375.5 | 385.9 | 393.3 |
| 72.5° | 263.6 | 273.1 | 282.7 | 292.2 | 301.8 | 312.0 | 323.1 | 334.1 | 345.3 | 356.3 | 363.5 |
| 75° | 212.0 | 222.2 | 232.3 | 242.5 | 252.6 | 263.4 | 274.9 | 286.4 | 297.9 | 309.4 | 317.1 |
| 77.5° | 164.0 | 174.7 | 185.5 | 196.2 | 207.0 | 218.3 | 230.4 | 242.5 | 254.5 | 266.5 | 274.3 |
| 80° | 134.4 | 145.3 | 156.3 | 167.3 | 178.3 | 189.8 | 201.8 | 213.8 | 225.9 | 237.9 | 246.2 |
| 82.5° | 104.8 | 116.2 | 127.6 | 139.0 | 150.3 | 162.1 | 174.2 | 186.2 | 198.3 | 210.4 | 218.7 |
| 85° | 65.4 | 76.9 | 88.4 | 99.9 | 111.4 | 123.3 | 135.6 | 147.9 | 160.2 | 172.6 | 180.8 |
| 87.5° | 37.0 | 48.6 | 60.3 | 71.9 | 83.5 | 95.4 | 107.7 | 120.1 | 132.4 | 144.7 | 152.9 |
| 90° | 22.4 | 35.5 | 48.7 | 61.8 | 74.9 | 88.2 | 101.6 | 114.9 | 128.3 | 141.6 | 150.8 |
| 92.5° | 30.0 | 39.9 | 49.9 | 59.9 | 69.9 | 81.6 | 94.9 | 108.3 | 121.6 | 135.0 | 143.9 |
| 95° | 65.0 | 67.3 | 69.6 | 72.0 | 74.3 | 81.1 | 92.6 | 104.0 | 115.4 | 126.8 | 135.5 |
| 97.5° | 118.5 | 130.5 | 142.5 | 154.4 | 166.4 | 166.9 | 156.0 | 145.0 | 134.1 | 123.1 | 130.5 |
| 100° | 159.5 | 170.2 | 180.9 | 191.6 | 202.3 | 199.3 | 182.7 | 166.1 | 149.5 | 132.9 | 136.9 |
| 102.5° | 206.5 | 215.4 | 224.3 | 233.1 | 242.0 | 249.9 | 256.7 | 263.7 | 270.5 | 277.5 | 248.3 |
| 105° | 279.0 | 285.7 | 292.4 | 299.1 | 305.7 | 314.6 | 325.7 | 336.9 | 347.9 | 359.1 | 367.7 |
| 107.5° | 348.4 | 353.5 | 358.6 | 363.6 | 368.7 | 376.7 | 387.7 | 398.6 | 409.6 | 420.5 | 428.1 |
| 110° | 394.4 | 398.9 | 403.2 | 407.7 | 412.1 | 419.7 | 430.5 | 441.3 | 452.1 | 462.8 | 469.6 |



TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 439.0 | 443.4 | 447.9 | 452.4 | 456.8 | 464.0 | 473.7 | 483.4 | 493.0 | 502.7 | 508.8 |
| 115° | 507.7 | 510.8 | 513.8 | 516.8 | 519.9 | 525.8 | 534.3 | 542.9 | 551.4 | 560.0 | 566.4 |
| 117.5° | 570.6 | 572.9 | 575.2 | 577.5 | 579.7 | 585.1 | 593.7 | 602.4 | 610.9 | 619.6 | 625.2 |
| 120° | 612.3 | 613.9 | 615.6 | 617.2 | 618.8 | 623.5 | 631.2 | 639.0 | 646.8 | 654.5 | 660.4 |
| 122.5° | 652.3 | 652.9 | 653.5 | 654.2 | 654.8 | 659.0 | 666.8 | 674.6 | 682.3 | 690.2 | 695.9 |
| 125° | 708.2 | 708.6 | 709.2 | 709.7 | 710.2 | 713.7 | 720.1 | 726.7 | 733.1 | 739.5 | 745.3 |
| 127.5° | 762.1 | 762.0 | 761.9 | 761.8 | 761.7 | 764.8 | 771.0 | 777.1 | 783.3 | 789.4 | 794.2 |
| 130° | 795.9 | 795.9 | 795.8 | 795.8 | 795.7 | 798.1 | 803.1 | 808.1 | 813.1 | 818.0 | 823.1 |
| 132.5° | 828.0 | 828.0 | 828.1 | 828.2 | 828.3 | 830.5 | 834.7 | 839.0 | 843.3 | 847.6 | 852.5 |
| 135° | 874.9 | 874.6 | 874.4 | 874.2 | 874.1 | 875.3 | 878.0 | 880.7 | 883.4 | 886.1 | 890.9 |
| 137.5° | 917.4 | 917.2 | 916.9 | 916.8 | 916.6 | 917.4 | 919.2 | 921.0 | 922.8 | 924.6 | 929.1 |
| 140° | 945.1 | 945.3 | 945.4 | 945.5 | 945.7 | 946.0 | 946.7 | 947.4 | 948.1 | 948.7 | 952.9 |
| 142.5° | 969.1 | 969.7 | 970.4 | 971.1 | 971.7 | 972.1 | 972.1 | 972.2 | 972.3 | 972.4 | 976.0 |
| 145° | 1007.1 | 1007.5 | 1007.7 | 1008.1 | 1008.4 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1010.4 |
| 147.5° | 1037.6 | 1038.4 | 1039.2 | 1040.1 | 1040.9 | 1041.3 | 1041.0 | 1040.8 | 1040.6 | 1040.4 | 1040.8 |
| 150° | 1059.6 | 1060.2 | 1060.7 | 1061.2 | 1061.7 | 1061.8 | 1061.7 | 1061.5 | 1061.3 | 1061.0 | 1061.0 |
| 152.5° | 1077.2 | 1077.7 | 1078.3 | 1078.9 | 1079.5 | 1079.6 | 1079.2 | 1078.9 | 1078.5 | 1078.2 | 1078.5 |
| 155° | 1103.0 | 1103.1 | 1103.3 | 1103.5 | 1103.7 | 1103.5 | 1103.0 | 1102.3 | 1101.7 | 1101.2 | 1101.9 |
| 157.5° | 1124.8 | 1124.7 | 1124.5 | 1124.4 | 1124.4 | 1123.9 | 1123.3 | 1122.6 | 1122.0 | 1121.2 | 1122.3 |
| 160° | 1137.6 | 1137.0 | 1136.5 | 1135.9 | 1135.2 | 1134.9 | 1134.7 | 1134.4 | 1134.3 | 1134.1 | 1135.2 |
| 162.5° | 1149.1 | 1148.3 | 1147.5 | 1146.7 | 1146.0 | 1145.6 | 1145.3 | 1145.1 | 1145.0 | 1144.8 | 1145.9 |
| 165° | 1163.4 | 1162.4 | 1161.5 | 1160.5 | 1159.5 | 1159.0 | 1159.0 | 1159.0 | 1159.0 | 1159.0 | 1160.6 |
| 167.5° | 1174.8 | 1173.8 | 1172.8 | 1171.8 | 1170.7 | 1170.2 | 1170.0 | 1169.9 | 1169.8 | 1169.7 | 1171.4 |
| 170° | 1181.2 | 1180.1 | 1178.8 | 1177.7 | 1176.5 | 1176.0 | 1176.2 | 1176.4 | 1176.6 | 1176.8 | 1178.4 |
| 172.5° | 1185.5 | 1184.4 | 1183.1 | 1182.0 | 1180.8 | 1180.3 | 1180.4 | 1180.7 | 1180.9 | 1181.1 | 1182.7 |
| 175° | 1190.2 | 1189.0 | 1187.8 | 1186.6 | 1185.4 | 1184.9 | 1185.1 | 1185.4 | 1185.5 | 1185.7 | 1187.5 |
| 177.5° | 1192.3 | 1191.1 | 1190.1 | 1189.0 | 1187.8 | 1187.5 | 1187.8 | 1188.1 | 1188.4 | 1188.7 | 1190.0 |
| 180° | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 |



TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 |
| 2.5° | 1097.2 | 1098.7 | 1100.2 | 1100.8 | 1100.6 | 1100.4 | 1100.2 | 1100.0 |
| 5° | 1094.2 | 1096.4 | 1098.7 | 1099.6 | 1099.3 | 1099.0 | 1098.8 | 1098.5 |
| 7.5° | 1088.4 | 1090.8 | 1093.3 | 1094.4 | 1094.1 | 1093.9 | 1093.6 | 1093.3 |
| 10° | 1082.4 | 1084.9 | 1087.4 | 1088.5 | 1088.2 | 1088.0 | 1087.7 | 1087.4 |
| 12.5° | 1074.2 | 1076.4 | 1078.6 | 1079.8 | 1079.7 | 1079.6 | 1079.6 | 1079.5 |
| 15° | 1059.1 | 1061.5 | 1064.0 | 1065.1 | 1064.8 | 1064.5 | 1064.3 | 1064.0 |
| 17.5° | 1040.6 | 1043.2 | 1045.7 | 1046.9 | 1046.6 | 1046.4 | 1046.2 | 1046.0 |
| 20° | 1026.3 | 1029.0 | 1031.8 | 1033.1 | 1033.1 | 1033.1 | 1033.1 | 1033.1 |
| 22.5° | 1009.5 | 1012.3 | 1015.0 | 1016.6 | 1017.1 | 1017.4 | 1017.9 | 1018.3 |
| 25° | 983.7 | 986.7 | 989.7 | 991.4 | 991.7 | 991.9 | 992.2 | 992.5 |
| 27.5° | 954.7 | 957.4 | 960.3 | 961.8 | 962.2 | 962.5 | 962.8 | 963.1 |
| 30° | 934.4 | 937.4 | 940.4 | 942.2 | 942.7 | 943.3 | 943.9 | 944.4 |
| 32.5° | 913.6 | 917.0 | 920.5 | 922.5 | 923.0 | 923.5 | 924.1 | 924.7 |
| 35° | 880.6 | 884.4 | 888.2 | 890.6 | 891.4 | 892.2 | 893.0 | 893.9 |
| 37.5° | 846.1 | 850.1 | 853.9 | 856.3 | 857.2 | 858.1 | 858.9 | 859.8 |
| 40° | 821.9 | 826.0 | 830.2 | 832.8 | 833.8 | 834.9 | 836.1 | 837.1 |
| 42.5° | 798.2 | 802.7 | 807.3 | 809.9 | 810.8 | 811.7 | 812.6 | 813.4 |
| 45° | 761.3 | 766.1 | 770.7 | 773.7 | 775.1 | 776.4 | 777.8 | 779.2 |
| 47.5° | 722.5 | 727.3 | 732.2 | 735.4 | 737.0 | 738.7 | 740.3 | 742.0 |
| 50° | 695.2 | 700.7 | 706.1 | 709.7 | 711.4 | 713.0 | 714.6 | 716.3 |
| 52.5° | 667.6 | 673.1 | 678.6 | 682.1 | 683.8 | 685.4 | 687.1 | 688.7 |
| 55° | 626.2 | 631.7 | 637.1 | 640.7 | 642.3 | 644.0 | 645.6 | 647.3 |
| 57.5° | 582.6 | 589.2 | 595.7 | 599.7 | 601.2 | 602.8 | 604.3 | 605.8 |
| 60° | 552.6 | 558.9 | 565.2 | 569.4 | 571.7 | 573.8 | 576.0 | 578.2 |
| 62.5° | 523.0 | 529.3 | 535.7 | 539.8 | 542.1 | 544.2 | 546.4 | 548.7 |
| 65° | 477.2 | 484.1 | 491.0 | 495.5 | 497.7 | 499.9 | 502.0 | 504.3 |
| 67.5° | 432.4 | 439.3 | 446.3 | 450.8 | 453.0 | 455.1 | 457.3 | 459.4 |
| 70° | 400.6 | 408.0 | 415.4 | 420.2 | 422.0 | 424.0 | 425.9 | 427.8 |
| 72.5° | 370.7 | 377.8 | 385.0 | 389.7 | 391.8 | 394.0 | 396.1 | 398.2 |
| 75° | 324.8 | 332.4 | 340.1 | 345.2 | 347.7 | 350.2 | 352.6 | 355.1 |
| 77.5° | 282.1 | 289.9 | 297.7 | 302.9 | 305.5 | 308.2 | 310.8 | 313.4 |
| 80° | 254.4 | 262.6 | 270.8 | 276.0 | 278.2 | 280.4 | 282.6 | 284.8 |
| 82.5° | 227.2 | 235.7 | 244.1 | 249.5 | 251.9 | 254.3 | 256.7 | 259.1 |
| 85° | 189.0 | 197.2 | 205.5 | 211.0 | 213.7 | 216.4 | 219.2 | 221.9 |
| 87.5° | 161.0 | 169.2 | 177.5 | 182.8 | 185.3 | 187.8 | 190.3 | 192.7 |
| 90° | 159.9 | 169.1 | 178.2 | 184.0 | 186.6 | 189.2 | 191.8 | 194.4 |
| 92.5° | 152.8 | 161.8 | 170.7 | 176.3 | 178.5 | 180.8 | 183.1 | 185.3 |
| 95° | 144.0 | 152.6 | 161.2 | 166.8 | 169.4 | 172.1 | 174.8 | 177.5 |
| 97.5° | 137.7 | 145.0 | 152.3 | 157.2 | 159.8 | 162.4 | 164.9 | 167.5 |
| 100° | 141.0 | 145.0 | 149.0 | 152.0 | 154.2 | 156.3 | 158.5 | 160.5 |
| 102.5° | 219.3 | 190.2 | 161.0 | 147.6 | 149.8 | 151.9 | 154.2 | 156.3 |
| 105° | 376.4 | 385.0 | 393.6 | 395.5 | 390.6 | 385.6 | 380.7 | 375.8 |
| 107.5° | 435.7 | 443.4 | 450.9 | 456.1 | 458.8 | 461.5 | 464.3 | 467.0 |
| 110° | 476.3 | 483.0 | 489.6 | 494.4 | 497.1 | 500.0 | 502.7 | 505.5 |



TEST NUMBER: P332655-940

CATALOG NUMBER: S124DIP-S1020D1035U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 514.8 | 520.8 | 526.8 | 531.3 | 534.2 | 537.2 | 540.1 | 543.1 |
| 115° | 572.8 | 579.3 | 585.7 | 589.9 | 591.7 | 593.7 | 595.6 | 597.5 |
| 117.5° | 630.8 | 636.4 | 642.0 | 645.9 | 648.0 | 650.1 | 652.2 | 654.3 |
| 120° | 666.2 | 672.1 | 678.0 | 681.8 | 683.6 | 685.5 | 687.2 | 689.0 |
| 122.5° | 701.6 | 707.3 | 713.0 | 716.7 | 718.3 | 719.8 | 721.4 | 723.0 |
| 125° | 751.1 | 757.0 | 762.8 | 766.5 | 768.4 | 770.3 | 772.0 | 773.9 |
| 127.5° | 799.1 | 803.9 | 808.7 | 812.0 | 813.7 | 815.4 | 817.1 | 818.8 |
| 130° | 828.2 | 833.4 | 838.5 | 841.9 | 843.6 | 845.2 | 846.9 | 848.5 |
| 132.5° | 857.4 | 862.3 | 867.2 | 870.4 | 871.8 | 873.3 | 874.9 | 876.3 |
| 135° | 895.7 | 900.4 | 905.3 | 908.7 | 910.7 | 912.8 | 914.8 | 916.9 |
| 137.5° | 933.4 | 937.9 | 942.4 | 945.2 | 946.5 | 947.7 | 949.0 | 950.2 |
| 140° | 957.0 | 961.2 | 965.4 | 968.2 | 969.7 | 971.3 | 972.9 | 974.5 |
| 142.5° | 979.5 | 983.0 | 986.6 | 989.0 | 990.2 | 991.4 | 992.6 | 993.7 |
| 145° | 1012.3 | 1014.1 | 1015.9 | 1017.6 | 1019.0 | 1020.6 | 1022.1 | 1023.6 |
| 147.5° | 1041.2 | 1041.5 | 1042.0 | 1042.7 | 1043.7 | 1044.8 | 1045.9 | 1047.0 |
| 150° | 1061.0 | 1061.0 | 1061.0 | 1061.1 | 1061.4 | 1061.6 | 1061.8 | 1061.9 |
| 152.5° | 1078.8 | 1079.1 | 1079.4 | 1079.5 | 1079.4 | 1079.3 | 1079.1 | 1079.1 |
| 155° | 1102.7 | 1103.5 | 1104.3 | 1104.4 | 1103.8 | 1103.2 | 1102.6 | 1102.1 |
| 157.5° | 1123.3 | 1124.4 | 1125.3 | 1125.3 | 1124.4 | 1123.3 | 1122.3 | 1121.2 |
| 160° | 1136.5 | 1137.6 | 1138.8 | 1138.8 | 1137.6 | 1136.5 | 1135.2 | 1134.1 |
| 162.5° | 1147.1 | 1148.3 | 1149.5 | 1149.4 | 1148.1 | 1146.7 | 1145.4 | 1144.1 |
| 165° | 1162.2 | 1163.8 | 1165.3 | 1165.2 | 1163.4 | 1161.6 | 1159.8 | 1158.1 |
| 167.5° | 1173.1 | 1174.9 | 1176.6 | 1176.5 | 1174.6 | 1172.6 | 1170.5 | 1168.6 |
| 170° | 1180.0 | 1181.5 | 1183.1 | 1182.9 | 1181.0 | 1179.0 | 1177.0 | 1175.0 |
| 172.5° | 1184.3 | 1185.8 | 1187.4 | 1187.1 | 1185.0 | 1182.9 | 1180.7 | 1178.6 |
| 175° | 1189.3 | 1191.1 | 1192.8 | 1192.5 | 1190.2 | 1187.8 | 1185.4 | 1183.0 |
| 177.5° | 1191.2 | 1192.5 | 1193.8 | 1193.5 | 1191.6 | 1189.7 | 1187.8 | 1185.9 |
| 180° | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 |

(END OF REPORT)