

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: P332043-940

Luminaire Tested: **S123DIP-S1000D1195U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332043-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1195U940-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7330.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

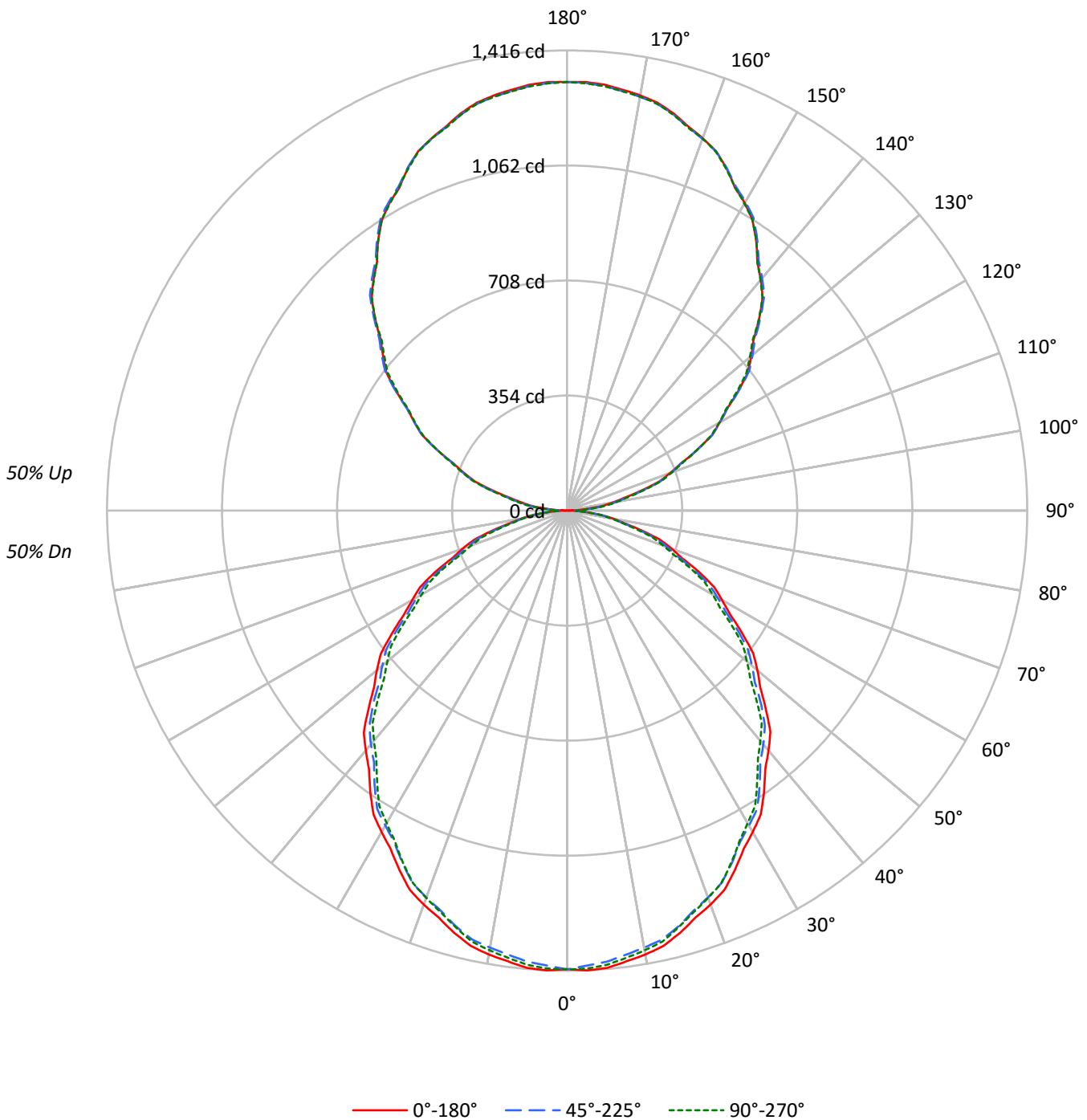
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 56 | 56 | 56 | 50 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 68 | 61 | 59 | 58 | 50 | 48 | 47 | 47 | 47 | 47 | 42 |
| 2 | 89 | 82 | 75 | 70 | 82 | 75 | 70 | 65 | 64 | 60 | 57 | 53 | 51 | 48 | 44 | 42 | 40 | 40 | 40 | 40 | 35 |
| 3 | 81 | 72 | 64 | 58 | 75 | 66 | 60 | 55 | 56 | 52 | 47 | 47 | 44 | 41 | 39 | 36 | 34 | 34 | 34 | 34 | 30 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 35 | 32 | 29 | 29 | 29 | 29 | 26 |
| 5 | 68 | 56 | 48 | 42 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 25 | 25 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 22 | 22 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 35 | 30 | 37 | 31 | 27 | 31 | 27 | 23 | 26 | 22 | 20 | 20 | 20 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 24 | 20 | 18 | 18 | 18 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 29 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 16 | 16 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 15 | 15 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15193 | 15193 | 15193 |
| 5° | 15263 | 15055 | 15159 |
| 10° | 15162 | 14924 | 15017 |
| 15° | 14985 | 14755 | 14782 |
| 20° | 14778 | 14513 | 14528 |
| 25° | 14500 | 14226 | 14197 |
| 30° | 14194 | 13908 | 13801 |
| 35° | 13875 | 13571 | 13397 |
| 40° | 13541 | 13198 | 12995 |
| 45° | 13172 | 12858 | 12543 |
| 50° | 12804 | 12439 | 12092 |
| 55° | 12322 | 12003 | 11639 |
| 60° | 11834 | 11496 | 11130 |
| 65° | 11405 | 10942 | 10603 |
| 70° | 10770 | 10313 | 9854 |
| 75° | 9844 | 9491 | 9087 |
| 80° | 8877 | 8498 | 8424 |
| 85° | 7793 | 7497 | 7188 |



TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 133.0 | 1.8 |
| 10°-20° | 375.4 | 5.1 |
| 20°-30° | 554.6 | 7.6 |
| 30°-40° | 647.8 | 8.8 |
| 40°-50° | 651.3 | 8.9 |
| 50°-60° | 572.1 | 7.8 |
| 60°-70° | 426.2 | 5.8 |
| 70°-80° | 242.8 | 3.3 |
| 80°-90° | 73.6 | 1.0 |
| 90°-100° | 85.9 | 1.2 |
| 100°-110° | 257.2 | 3.5 |
| 110°-120° | 437.4 | 6.0 |
| 120°-130° | 575.3 | 7.8 |
| 130°-140° | 646.7 | 8.8 |
| 140°-150° | 635.6 | 8.7 |
| 150°-160° | 535.1 | 7.3 |
| 160°-170° | 356.2 | 4.9 |
| 170°-180° | 124.7 | 1.7 |
| 0°-30° | 1062.9 | 14.5 |
| 0°-40° | 1710.7 | 23.3 |
| 0°-60° | 2934.1 | 40.0 |
| 0°-90° | 3676.7 | 50.2 |
| 90°-120° | 780.5 | 10.6 |
| 90°-150° | 2638.1 | 36.0 |
| 90°-180° | 3654.0 | 49.8 |
| 0°-180° | 7330.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1412 | 1412 | 1412 | 1412 | 1412 | |
| 5° | 1413 | 1406 | 1393 | 1405 | 1403 | 134 |
| 15° | 1345 | 1339 | 1324 | 1333 | 1326 | 379 |
| 25° | 1221 | 1213 | 1198 | 1199 | 1195 | 562 |
| 35° | 1056 | 1048 | 1033 | 1026 | 1020 | 660 |
| 45° | 865 | 860 | 845 | 831 | 824 | 668 |
| 55° | 657 | 655 | 640 | 627 | 620 | 588 |
| 65° | 448 | 441 | 430 | 420 | 416 | 442 |
| 75° | 237 | 232 | 228 | 222 | 218 | 253 |
| 85° | 63 | 61 | 61 | 58 | 58 | 69 |
| 90° | 1 | 12 | 25 | 29 | 31 | 7 |
| 95° | 61 | 68 | 77 | 81 | 81 | 69 |
| 105° | 233 | 236 | 244 | 245 | 247 | 250 |
| 115° | 440 | 443 | 441 | 442 | 441 | 436 |
| 125° | 644 | 647 | 646 | 641 | 637 | 574 |
| 135° | 836 | 842 | 841 | 837 | 835 | 644 |
| 145° | 1014 | 1016 | 1020 | 1018 | 1014 | 633 |
| 155° | 1162 | 1162 | 1162 | 1166 | 1159 | 534 |
| 165° | 1265 | 1262 | 1262 | 1267 | 1261 | 357 |
| 175° | 1316 | 1312 | 1312 | 1317 | 1311 | 125 |
| 180° | 1319 | 1319 | 1319 | 1319 | 1319 | |



TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5° | 1416.3 | 1415.5 | 1414.6 | 1413.7 | 1412.9 | 1411.2 | 1408.9 | 1406.5 | 1404.2 | 1401.8 | 1403.9 |
| 5° | 1412.6 | 1411.3 | 1410.0 | 1408.6 | 1407.3 | 1405.2 | 1402.2 | 1399.2 | 1396.2 | 1393.3 | 1396.0 |
| 7.5° | 1398.8 | 1397.5 | 1396.2 | 1394.8 | 1393.5 | 1391.2 | 1388.2 | 1385.1 | 1382.1 | 1378.9 | 1381.3 |
| 10° | 1387.2 | 1385.9 | 1384.5 | 1383.1 | 1381.8 | 1379.4 | 1375.9 | 1372.3 | 1368.9 | 1365.4 | 1367.8 |
| 12.5° | 1371.6 | 1370.6 | 1369.4 | 1368.2 | 1367.2 | 1364.9 | 1361.6 | 1358.3 | 1355.0 | 1351.7 | 1353.5 |
| 15° | 1344.7 | 1343.6 | 1342.6 | 1341.5 | 1340.4 | 1338.1 | 1334.6 | 1331.1 | 1327.6 | 1324.1 | 1326.2 |
| 17.5° | 1313.4 | 1312.0 | 1310.6 | 1309.2 | 1307.8 | 1305.4 | 1301.8 | 1298.3 | 1294.9 | 1291.3 | 1292.8 |
| 20° | 1290.1 | 1288.5 | 1286.9 | 1285.2 | 1283.6 | 1281.0 | 1277.6 | 1274.1 | 1270.6 | 1267.0 | 1268.1 |
| 22.5° | 1263.9 | 1262.3 | 1260.7 | 1259.0 | 1257.4 | 1254.9 | 1251.3 | 1247.9 | 1244.4 | 1240.8 | 1241.7 |
| 25° | 1220.9 | 1219.3 | 1217.7 | 1216.1 | 1214.4 | 1211.9 | 1208.4 | 1204.9 | 1201.4 | 1197.8 | 1198.1 |
| 27.5° | 1175.1 | 1173.5 | 1171.9 | 1170.4 | 1168.8 | 1166.1 | 1162.3 | 1158.6 | 1154.8 | 1151.0 | 1151.2 |
| 30° | 1142.0 | 1140.7 | 1139.3 | 1138.0 | 1136.7 | 1134.1 | 1130.3 | 1126.5 | 1122.8 | 1119.0 | 1119.0 |
| 32.5° | 1109.0 | 1107.2 | 1105.5 | 1103.7 | 1101.9 | 1099.6 | 1096.6 | 1093.8 | 1090.8 | 1087.9 | 1086.4 |
| 35° | 1055.9 | 1054.3 | 1052.7 | 1051.1 | 1049.4 | 1046.9 | 1043.3 | 1039.8 | 1036.3 | 1032.8 | 1031.2 |
| 37.5° | 1001.5 | 999.4 | 997.4 | 995.3 | 993.3 | 990.5 | 986.9 | 983.4 | 979.8 | 976.2 | 974.3 |
| 40° | 963.7 | 962.0 | 960.4 | 958.8 | 957.2 | 954.5 | 950.7 | 946.9 | 943.2 | 939.3 | 937.2 |
| 42.5° | 925.8 | 923.9 | 922.1 | 920.2 | 918.5 | 915.6 | 911.9 | 908.1 | 904.3 | 900.5 | 898.4 |
| 45° | 865.3 | 864.2 | 863.2 | 862.1 | 861.0 | 858.7 | 855.2 | 851.7 | 848.2 | 844.7 | 841.5 |
| 47.5° | 805.4 | 803.8 | 802.3 | 800.7 | 799.2 | 796.7 | 793.4 | 790.1 | 786.8 | 783.5 | 780.3 |
| 50° | 764.6 | 763.2 | 761.9 | 760.5 | 759.2 | 756.8 | 753.2 | 749.8 | 746.3 | 742.8 | 739.8 |
| 52.5° | 721.8 | 720.9 | 720.1 | 719.2 | 718.2 | 715.9 | 712.2 | 708.5 | 704.7 | 701.0 | 698.5 |
| 55° | 656.6 | 656.3 | 656.0 | 655.8 | 655.5 | 653.6 | 650.1 | 646.6 | 643.1 | 639.6 | 636.6 |
| 57.5° | 594.4 | 593.5 | 592.6 | 591.7 | 590.8 | 588.9 | 586.1 | 583.3 | 580.5 | 577.7 | 575.1 |
| 60° | 549.7 | 549.5 | 549.2 | 548.9 | 548.7 | 547.0 | 543.7 | 540.5 | 537.3 | 534.0 | 531.5 |
| 62.5° | 510.0 | 509.3 | 508.5 | 507.8 | 507.2 | 505.2 | 501.9 | 498.7 | 495.5 | 492.2 | 489.8 |
| 65° | 447.8 | 446.5 | 445.1 | 443.8 | 442.5 | 440.4 | 437.7 | 435.1 | 432.3 | 429.6 | 427.5 |
| 67.5° | 382.1 | 380.8 | 379.7 | 378.5 | 377.3 | 375.7 | 373.6 | 371.6 | 369.5 | 367.5 | 365.6 |
| 70° | 342.2 | 340.6 | 339.0 | 337.4 | 335.8 | 334.1 | 332.5 | 330.9 | 329.3 | 327.7 | 325.8 |
| 72.5° | 300.5 | 299.3 | 298.1 | 296.9 | 295.8 | 294.3 | 292.4 | 290.6 | 288.7 | 286.9 | 285.3 |
| 75° | 236.7 | 235.6 | 234.5 | 233.4 | 232.4 | 231.4 | 230.6 | 229.8 | 229.0 | 228.2 | 226.9 |
| 77.5° | 180.1 | 179.5 | 178.9 | 178.3 | 177.7 | 176.9 | 176.0 | 175.0 | 174.1 | 173.1 | 172.2 |
| 80° | 143.2 | 142.4 | 141.6 | 140.8 | 140.0 | 139.3 | 138.8 | 138.2 | 137.7 | 137.1 | 136.9 |
| 82.5° | 107.3 | 107.1 | 107.0 | 106.8 | 106.6 | 106.5 | 106.4 | 106.3 | 106.2 | 106.1 | 105.6 |
| 85° | 63.1 | 62.6 | 62.1 | 61.5 | 61.0 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.1 |
| 87.5° | 25.4 | 25.2 | 25.1 | 24.9 | 24.7 | 24.8 | 25.1 | 25.6 | 25.9 | 26.3 | 26.3 |
| 90° | 1.1 | 3.3 | 5.6 | 7.9 | 10.3 | 12.9 | 15.9 | 18.9 | 21.8 | 24.9 | 25.8 |
| 92.5° | 25.1 | 26.7 | 28.2 | 29.8 | 31.3 | 33.0 | 34.7 | 36.4 | 38.1 | 39.8 | 40.5 |
| 95° | 61.2 | 62.8 | 64.4 | 66.0 | 67.6 | 69.3 | 71.2 | 72.9 | 74.8 | 76.7 | 77.6 |
| 97.5° | 108.6 | 109.8 | 111.0 | 112.2 | 113.3 | 114.7 | 116.0 | 117.3 | 118.6 | 119.9 | 121.0 |
| 100° | 140.9 | 142.3 | 143.7 | 145.1 | 146.4 | 147.7 | 148.8 | 150.0 | 151.1 | 152.3 | 153.0 |
| 102.5° | 178.2 | 179.1 | 179.9 | 180.7 | 181.6 | 182.7 | 184.2 | 185.7 | 187.3 | 188.8 | 189.5 |
| 105° | 233.1 | 233.5 | 234.1 | 234.5 | 235.0 | 236.2 | 238.3 | 240.4 | 242.5 | 244.5 | 244.5 |
| 107.5° | 296.9 | 297.2 | 297.5 | 297.7 | 298.0 | 298.6 | 299.4 | 300.2 | 301.0 | 301.9 | 302.6 |
| 110° | 336.7 | 337.2 | 337.6 | 338.1 | 338.6 | 339.0 | 339.5 | 339.9 | 340.4 | 340.9 | 341.8 |



TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 378.2 | 378.4 | 378.7 | 379.0 | 379.2 | 379.4 | 379.5 | 379.6 | 379.7 | 379.8 | 380.9 |
| 115° | 440.3 | 441.0 | 441.7 | 442.4 | 443.1 | 443.2 | 442.7 | 442.3 | 441.8 | 441.4 | 441.6 |
| 117.5° | 502.9 | 503.4 | 503.8 | 504.3 | 504.7 | 504.7 | 504.1 | 503.5 | 502.9 | 502.3 | 502.2 |
| 120° | 541.9 | 543.2 | 544.7 | 546.0 | 547.4 | 547.5 | 546.4 | 545.2 | 544.0 | 542.9 | 542.7 |
| 122.5° | 582.5 | 583.4 | 584.5 | 585.5 | 586.6 | 586.7 | 586.1 | 585.5 | 585.0 | 584.3 | 583.7 |
| 125° | 644.4 | 645.2 | 645.8 | 646.5 | 647.2 | 647.3 | 646.8 | 646.4 | 646.0 | 645.5 | 644.5 |
| 127.5° | 701.6 | 703.1 | 704.5 | 706.1 | 707.5 | 708.0 | 707.5 | 706.9 | 706.5 | 706.0 | 704.7 |
| 130° | 739.8 | 741.5 | 743.4 | 745.3 | 747.1 | 747.7 | 747.0 | 746.3 | 745.6 | 744.9 | 744.0 |
| 132.5° | 777.8 | 779.7 | 781.6 | 783.4 | 785.2 | 786.0 | 785.4 | 784.9 | 784.3 | 783.9 | 782.7 |
| 135° | 836.1 | 837.5 | 838.8 | 840.3 | 841.6 | 842.2 | 842.0 | 841.8 | 841.5 | 841.2 | 840.3 |
| 137.5° | 890.0 | 891.1 | 892.2 | 893.4 | 894.6 | 895.5 | 896.1 | 896.6 | 897.2 | 897.9 | 896.9 |
| 140° | 927.3 | 928.4 | 929.6 | 930.8 | 931.8 | 932.6 | 932.8 | 933.0 | 933.3 | 933.5 | 933.3 |
| 142.5° | 961.3 | 962.4 | 963.6 | 964.7 | 965.9 | 966.6 | 967.1 | 967.5 | 967.9 | 968.3 | 968.0 |
| 145° | 1014.3 | 1014.8 | 1015.2 | 1015.7 | 1016.1 | 1016.7 | 1017.4 | 1018.1 | 1018.8 | 1019.5 | 1019.2 |
| 147.5° | 1060.7 | 1061.6 | 1062.4 | 1063.2 | 1064.1 | 1064.8 | 1065.4 | 1066.0 | 1066.7 | 1067.4 | 1067.4 |
| 150° | 1093.1 | 1093.5 | 1094.0 | 1094.4 | 1094.9 | 1095.4 | 1095.8 | 1096.3 | 1096.7 | 1097.2 | 1097.2 |
| 152.5° | 1119.5 | 1120.3 | 1120.9 | 1121.5 | 1122.1 | 1122.6 | 1122.8 | 1123.2 | 1123.5 | 1123.7 | 1124.1 |
| 155° | 1161.5 | 1161.5 | 1161.5 | 1161.5 | 1161.5 | 1161.5 | 1161.8 | 1162.0 | 1162.3 | 1162.4 | 1163.4 |
| 157.5° | 1197.0 | 1196.8 | 1196.5 | 1196.2 | 1196.0 | 1195.9 | 1196.1 | 1196.3 | 1196.5 | 1196.7 | 1197.7 |
| 160° | 1219.4 | 1219.0 | 1218.5 | 1218.1 | 1217.6 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1218.5 |
| 162.5° | 1239.3 | 1238.7 | 1238.1 | 1237.4 | 1236.8 | 1236.5 | 1236.7 | 1236.9 | 1237.1 | 1237.2 | 1238.4 |
| 165° | 1265.1 | 1264.4 | 1263.6 | 1262.9 | 1262.3 | 1261.9 | 1261.9 | 1261.9 | 1261.9 | 1261.9 | 1263.3 |
| 167.5° | 1285.6 | 1284.6 | 1283.7 | 1282.8 | 1281.8 | 1281.5 | 1281.7 | 1281.8 | 1282.0 | 1282.2 | 1283.6 |
| 170° | 1297.2 | 1296.2 | 1295.3 | 1294.4 | 1293.4 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1293.0 | 1294.6 |
| 172.5° | 1306.3 | 1305.4 | 1304.4 | 1303.5 | 1302.6 | 1302.2 | 1302.2 | 1302.2 | 1302.2 | 1302.2 | 1303.6 |
| 175° | 1315.8 | 1314.9 | 1313.9 | 1313.0 | 1312.2 | 1311.6 | 1311.6 | 1311.6 | 1311.6 | 1311.6 | 1313.0 |
| 177.5° | 1319.7 | 1319.0 | 1318.3 | 1317.5 | 1316.8 | 1316.4 | 1316.4 | 1316.4 | 1316.4 | 1316.4 | 1317.5 |
| 180° | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 |



TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5° | 1406.0 | 1408.3 | 1410.4 | 1411.4 | 1411.1 | 1411.0 | 1410.7 | 1410.5 |
| 5° | 1398.6 | 1401.3 | 1404.1 | 1405.2 | 1404.6 | 1404.1 | 1403.6 | 1403.0 |
| 7.5° | 1383.8 | 1386.3 | 1388.7 | 1389.7 | 1389.4 | 1389.1 | 1388.8 | 1388.4 |
| 10° | 1370.2 | 1372.6 | 1375.1 | 1376.0 | 1375.5 | 1374.9 | 1374.4 | 1373.9 |
| 12.5° | 1355.3 | 1357.1 | 1358.9 | 1359.6 | 1359.3 | 1359.0 | 1358.6 | 1358.3 |
| 15° | 1328.4 | 1330.5 | 1332.8 | 1333.0 | 1331.4 | 1329.7 | 1328.1 | 1326.5 |
| 17.5° | 1294.3 | 1295.8 | 1297.4 | 1297.8 | 1297.3 | 1296.6 | 1296.0 | 1295.5 |
| 20° | 1269.2 | 1270.3 | 1271.4 | 1271.5 | 1270.7 | 1269.9 | 1269.1 | 1268.3 |
| 22.5° | 1242.6 | 1243.4 | 1244.3 | 1244.2 | 1243.2 | 1242.2 | 1241.2 | 1240.1 |
| 25° | 1198.4 | 1198.7 | 1199.0 | 1198.7 | 1197.8 | 1197.0 | 1196.2 | 1195.4 |
| 27.5° | 1151.5 | 1151.6 | 1151.9 | 1151.5 | 1150.5 | 1149.4 | 1148.4 | 1147.4 |
| 30° | 1119.0 | 1119.0 | 1119.0 | 1118.0 | 1116.2 | 1114.3 | 1112.4 | 1110.4 |
| 32.5° | 1084.9 | 1083.4 | 1081.9 | 1080.6 | 1079.6 | 1078.5 | 1077.5 | 1076.5 |
| 35° | 1029.6 | 1028.0 | 1026.4 | 1024.8 | 1023.5 | 1022.2 | 1020.8 | 1019.5 |
| 37.5° | 972.4 | 970.4 | 968.5 | 967.1 | 966.3 | 965.4 | 964.5 | 963.7 |
| 40° | 935.0 | 932.9 | 930.8 | 929.1 | 928.0 | 926.9 | 925.9 | 924.8 |
| 42.5° | 896.2 | 894.0 | 891.9 | 890.3 | 889.2 | 888.1 | 887.1 | 886.0 |
| 45° | 838.2 | 835.0 | 831.8 | 829.5 | 828.1 | 826.8 | 825.5 | 824.0 |
| 47.5° | 777.1 | 774.0 | 770.8 | 768.7 | 767.4 | 766.2 | 765.1 | 763.8 |
| 50° | 736.8 | 733.9 | 730.8 | 728.6 | 727.0 | 725.3 | 723.7 | 722.1 |
| 52.5° | 695.9 | 693.4 | 690.9 | 688.8 | 687.2 | 685.5 | 683.9 | 682.3 |
| 55° | 633.6 | 630.7 | 627.8 | 625.5 | 624.2 | 622.9 | 621.5 | 620.2 |
| 57.5° | 572.4 | 569.8 | 567.1 | 565.0 | 563.5 | 561.9 | 560.4 | 558.7 |
| 60° | 529.1 | 526.7 | 524.3 | 522.5 | 521.0 | 519.7 | 518.4 | 517.0 |
| 62.5° | 487.4 | 485.0 | 482.5 | 480.9 | 479.9 | 479.0 | 478.1 | 477.2 |
| 65° | 425.3 | 423.1 | 421.0 | 419.5 | 418.7 | 417.9 | 417.1 | 416.3 |
| 67.5° | 363.7 | 361.9 | 360.0 | 358.5 | 357.3 | 356.1 | 355.0 | 353.9 |
| 70° | 323.9 | 322.0 | 320.1 | 318.5 | 317.2 | 315.8 | 314.5 | 313.1 |
| 72.5° | 283.6 | 281.9 | 280.2 | 279.0 | 278.3 | 277.6 | 277.0 | 276.3 |
| 75° | 225.5 | 224.1 | 222.7 | 221.7 | 220.9 | 220.1 | 219.3 | 218.5 |
| 77.5° | 171.2 | 170.3 | 169.4 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 |
| 80° | 136.6 | 136.3 | 136.1 | 135.9 | 135.9 | 135.9 | 135.9 | 135.9 |
| 82.5° | 105.1 | 104.6 | 104.2 | 103.8 | 103.5 | 103.3 | 103.2 | 102.9 |
| 85° | 59.6 | 59.0 | 58.5 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 |
| 87.5° | 26.3 | 26.2 | 26.2 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 |
| 90° | 26.8 | 27.6 | 28.5 | 29.2 | 29.7 | 30.1 | 30.6 | 31.1 |
| 92.5° | 41.3 | 42.0 | 42.7 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 |
| 95° | 78.5 | 79.5 | 80.3 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 |
| 97.5° | 122.1 | 123.1 | 124.2 | 124.7 | 124.6 | 124.5 | 124.4 | 124.3 |
| 100° | 153.6 | 154.4 | 155.1 | 155.6 | 156.1 | 156.6 | 157.0 | 157.5 |
| 102.5° | 190.1 | 190.8 | 191.5 | 191.8 | 191.7 | 191.6 | 191.5 | 191.5 |
| 105° | 244.5 | 244.5 | 244.5 | 244.8 | 245.2 | 245.7 | 246.1 | 246.6 |
| 107.5° | 303.4 | 304.2 | 304.9 | 305.1 | 304.8 | 304.5 | 304.3 | 304.0 |
| 110° | 342.7 | 343.7 | 344.6 | 344.7 | 344.3 | 343.8 | 343.4 | 343.0 |



TEST NUMBER: P332043-940

CATALOG NUMBER: S123DIP-S1000D1195U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 382.0 | 383.2 | 384.2 | 384.8 | 384.7 | 384.6 | 384.5 | 384.4 |
| 115° | 441.8 | 442.0 | 442.3 | 442.3 | 442.0 | 441.8 | 441.6 | 441.4 |
| 117.5° | 502.2 | 502.1 | 502.1 | 501.8 | 501.1 | 500.4 | 499.8 | 499.2 |
| 120° | 542.4 | 542.2 | 542.0 | 541.6 | 541.2 | 540.7 | 540.3 | 539.8 |
| 122.5° | 583.2 | 582.6 | 581.9 | 581.3 | 580.7 | 580.1 | 579.3 | 578.7 |
| 125° | 643.6 | 642.7 | 641.8 | 640.9 | 640.0 | 639.0 | 638.1 | 637.2 |
| 127.5° | 703.4 | 702.1 | 700.8 | 699.6 | 698.6 | 697.5 | 696.4 | 695.4 |
| 130° | 743.1 | 742.2 | 741.3 | 739.9 | 738.3 | 736.7 | 735.1 | 733.5 |
| 132.5° | 781.7 | 780.6 | 779.4 | 778.3 | 777.0 | 775.8 | 774.5 | 773.3 |
| 135° | 839.5 | 838.5 | 837.6 | 836.9 | 836.4 | 836.0 | 835.5 | 835.1 |
| 137.5° | 895.9 | 894.9 | 893.9 | 893.0 | 892.2 | 891.4 | 890.5 | 889.6 |
| 140° | 933.0 | 932.8 | 932.6 | 931.7 | 930.1 | 928.4 | 926.8 | 925.2 |
| 142.5° | 967.9 | 967.6 | 967.4 | 966.6 | 965.4 | 964.1 | 963.0 | 961.7 |
| 145° | 1019.0 | 1018.8 | 1018.6 | 1018.0 | 1017.1 | 1016.1 | 1015.2 | 1014.3 |
| 147.5° | 1067.4 | 1067.4 | 1067.4 | 1066.7 | 1065.2 | 1063.9 | 1062.5 | 1061.1 |
| 150° | 1097.2 | 1097.2 | 1097.2 | 1096.5 | 1095.1 | 1093.8 | 1092.3 | 1091.0 |
| 152.5° | 1124.4 | 1124.8 | 1125.2 | 1124.8 | 1123.6 | 1122.4 | 1121.1 | 1120.0 |
| 155° | 1164.3 | 1165.2 | 1166.2 | 1165.8 | 1164.2 | 1162.6 | 1161.0 | 1159.3 |
| 157.5° | 1198.5 | 1199.5 | 1200.5 | 1200.3 | 1199.1 | 1197.7 | 1196.5 | 1195.2 |
| 160° | 1219.7 | 1220.8 | 1222.0 | 1222.1 | 1221.2 | 1220.2 | 1219.3 | 1218.4 |
| 162.5° | 1239.6 | 1240.7 | 1241.9 | 1241.7 | 1240.2 | 1238.8 | 1237.2 | 1235.8 |
| 165° | 1264.7 | 1266.1 | 1267.5 | 1267.3 | 1265.7 | 1264.1 | 1262.5 | 1260.9 |
| 167.5° | 1285.0 | 1286.5 | 1287.9 | 1287.9 | 1286.5 | 1285.0 | 1283.6 | 1282.2 |
| 170° | 1296.2 | 1297.9 | 1299.5 | 1299.5 | 1297.9 | 1296.2 | 1294.6 | 1293.0 |
| 172.5° | 1305.0 | 1306.4 | 1307.9 | 1307.8 | 1306.1 | 1304.5 | 1302.9 | 1301.3 |
| 175° | 1314.4 | 1315.8 | 1317.1 | 1317.1 | 1315.5 | 1313.8 | 1312.2 | 1310.6 |
| 177.5° | 1318.7 | 1319.7 | 1320.8 | 1320.7 | 1319.5 | 1318.1 | 1316.9 | 1315.6 |
| 180° | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 |

(END OF REPORT)