

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: P332709-830

Luminaire Tested: **S124DIP-S1195D1205U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332709-830
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-S1195D1205U830-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9115.2 lumens
Efficiency: N/A
Efficacy: 127.1 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

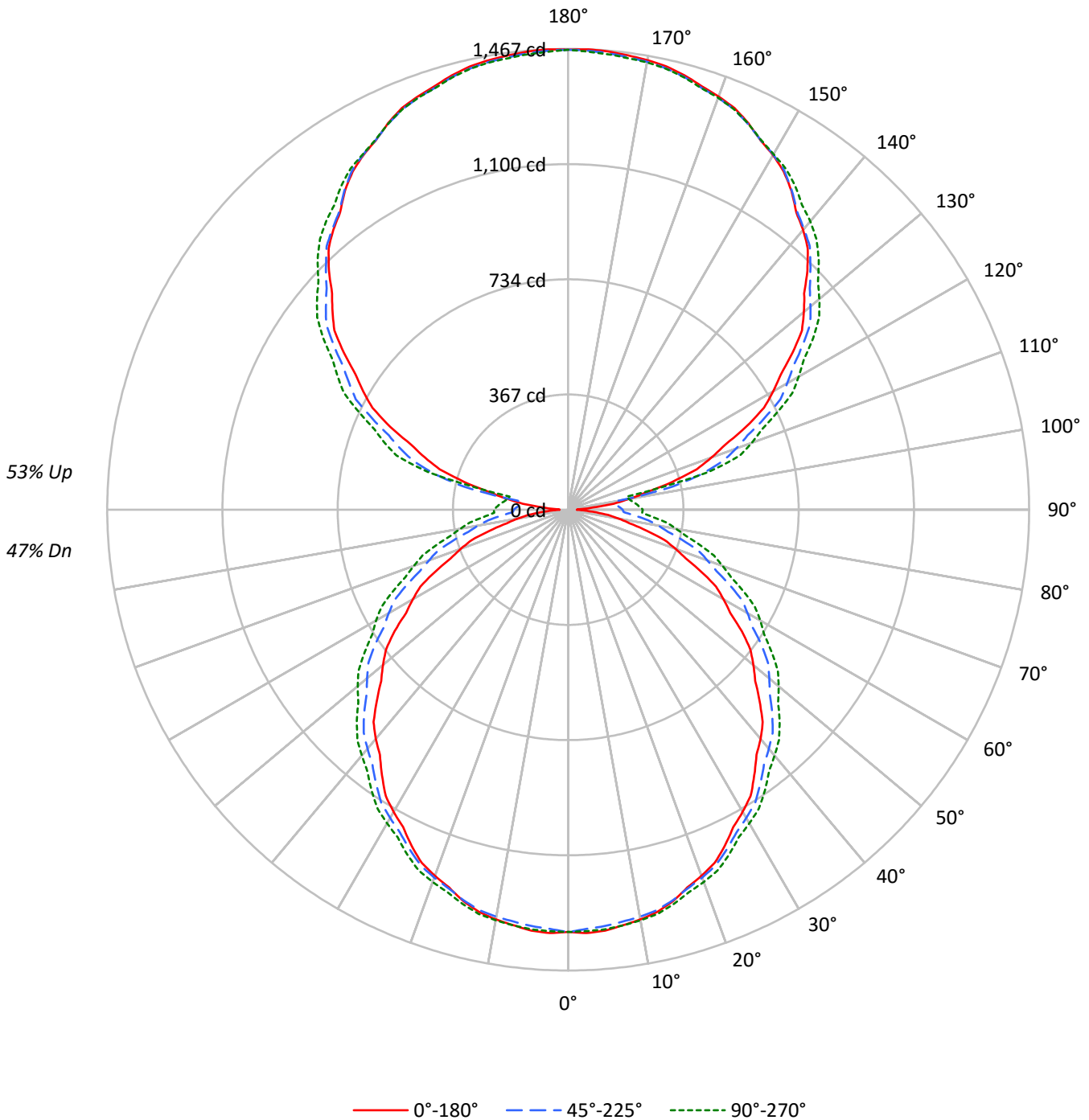
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-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 | 53 | 45 | 44 | 43 | 37 |
| 2 | 87 | 79 | 73 | 67 | 80 | 73 | 67 | 62 | 61 | 57 | 53 | 50 | 47 | 44 | 39 | 37 | 35 | 30 |
| 3 | 79 | 69 | 62 | 55 | 72 | 64 | 57 | 52 | 53 | 48 | 44 | 43 | 40 | 37 | 34 | 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 | 27 | 24 | 22 | 18 |
| 6 | 61 | 48 | 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 | 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° | 10851 | 10851 | 10851 |
| 5° | 10884 | 10604 | 10635 |
| 10° | 10818 | 10431 | 10423 |
| 15° | 10721 | 10231 | 10174 |
| 20° | 10574 | 10009 | 9931 |
| 25° | 10410 | 9760 | 9665 |
| 30° | 10231 | 9513 | 9392 |
| 35° | 10029 | 9259 | 9152 |
| 40° | 9868 | 9019 | 8902 |
| 45° | 9628 | 8797 | 8688 |
| 50° | 9425 | 8541 | 8461 |
| 55° | 9216 | 8300 | 8195 |
| 60° | 8889 | 7992 | 7953 |
| 65° | 8532 | 7663 | 7655 |
| 70° | 8098 | 7286 | 7308 |
| 75° | 7493 | 6872 | 6995 |
| 80° | 6823 | 6474 | 6686 |
| 85° | 5963 | 6123 | 6505 |



TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.3 | 1.4 |
| 10°-20° | 364.7 | 4.0 |
| 20°-30° | 551.4 | 6.0 |
| 30°-40° | 667.1 | 7.3 |
| 40°-50° | 705.3 | 7.7 |
| 50°-60° | 663.8 | 7.3 |
| 60°-70° | 550.7 | 6.0 |
| 70°-80° | 386.8 | 4.2 |
| 80°-90° | 222.9 | 2.4 |
| 90°-100° | 179.9 | 2.0 |
| 100°-110° | 415.4 | 4.6 |
| 110°-120° | 675.4 | 7.4 |
| 120°-130° | 811.8 | 8.9 |
| 130°-140° | 845.4 | 9.3 |
| 140°-150° | 779.0 | 8.5 |
| 150°-160° | 625.7 | 6.9 |
| 160°-170° | 403.5 | 4.4 |
| 170°-180° | 139.1 | 1.5 |
| 0°-30° | 1043.3 | 11.4 |
| 0°-40° | 1710.5 | 18.8 |
| 0°-60° | 3079.5 | 33.8 |
| 0°-90° | 4240.0 | 46.5 |
| 90°-120° | 1270.7 | 13.9 |
| 90°-150° | 3707.0 | 40.7 |
| 90°-180° | 4875.0 | 53.5 |
| 0°-180° | 9115.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1344 | 1344 | 1344 | 1344 | 1344 | |
| 5° | 1346 | 1341 | 1330 | 1342 | 1341 | 128 |
| 15° | 1290 | 1291 | 1287 | 1300 | 1299 | 363 |
| 25° | 1180 | 1189 | 1194 | 1209 | 1212 | 543 |
| 35° | 1032 | 1050 | 1066 | 1086 | 1091 | 646 |
| 45° | 861 | 890 | 918 | 943 | 951 | 665 |
| 55° | 674 | 707 | 751 | 780 | 790 | 601 |
| 65° | 467 | 515 | 566 | 602 | 616 | 462 |
| 75° | 259 | 315 | 378 | 418 | 434 | 275 |
| 85° | 80 | 143 | 211 | 254 | 271 | 85 |
| 90° | 27 | 100 | 173 | 221 | 238 | 19 |
| 95° | 80 | 95 | 155 | 200 | 217 | 93 |
| 105° | 343 | 381 | 441 | 484 | 461 | 360 |
| 115° | 624 | 643 | 688 | 722 | 734 | 615 |
| 125° | 871 | 876 | 910 | 940 | 952 | 778 |
| 135° | 1076 | 1076 | 1090 | 1116 | 1128 | 829 |
| 145° | 1239 | 1241 | 1241 | 1251 | 1259 | 774 |
| 155° | 1357 | 1358 | 1355 | 1359 | 1356 | 626 |
| 165° | 1431 | 1426 | 1426 | 1434 | 1425 | 404 |
| 175° | 1464 | 1458 | 1459 | 1467 | 1456 | 139 |
| 180° | 1464 | 1464 | 1464 | 1464 | 1464 | |



TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 |
| 2.5° | 1348.9 | 1348.0 | 1347.3 | 1346.4 | 1345.7 | 1344.2 | 1342.0 | 1339.9 | 1337.8 | 1335.6 | 1337.5 |
| 5° | 1345.5 | 1344.5 | 1343.5 | 1342.6 | 1341.5 | 1339.8 | 1337.5 | 1335.1 | 1332.8 | 1330.5 | 1333.1 |
| 7.5° | 1334.1 | 1333.5 | 1332.8 | 1332.3 | 1331.7 | 1330.4 | 1328.5 | 1326.5 | 1324.6 | 1322.7 | 1325.7 |
| 10° | 1324.5 | 1324.1 | 1323.8 | 1323.4 | 1323.1 | 1322.1 | 1320.4 | 1318.8 | 1317.1 | 1315.4 | 1318.4 |
| 12.5° | 1311.2 | 1311.2 | 1311.1 | 1311.0 | 1311.0 | 1310.3 | 1309.2 | 1308.1 | 1306.9 | 1305.8 | 1308.5 |
| 15° | 1289.9 | 1290.2 | 1290.5 | 1290.8 | 1291.2 | 1290.8 | 1289.9 | 1288.8 | 1287.8 | 1286.9 | 1289.9 |
| 17.5° | 1260.7 | 1261.7 | 1262.6 | 1263.7 | 1264.6 | 1265.1 | 1264.9 | 1264.6 | 1264.4 | 1264.2 | 1267.3 |
| 20° | 1240.2 | 1241.1 | 1242.2 | 1243.2 | 1244.2 | 1244.8 | 1245.2 | 1245.6 | 1245.9 | 1246.2 | 1249.5 |
| 22.5° | 1217.3 | 1218.5 | 1219.8 | 1221.1 | 1222.4 | 1223.3 | 1223.9 | 1224.6 | 1225.1 | 1225.7 | 1229.1 |
| 25° | 1180.0 | 1181.9 | 1184.0 | 1186.0 | 1188.0 | 1189.5 | 1190.5 | 1191.5 | 1192.5 | 1193.5 | 1197.2 |
| 27.5° | 1138.4 | 1141.4 | 1144.3 | 1147.3 | 1150.2 | 1152.4 | 1154.0 | 1155.6 | 1157.1 | 1158.6 | 1162.0 |
| 30° | 1110.7 | 1113.4 | 1116.1 | 1118.8 | 1121.4 | 1124.0 | 1126.2 | 1128.6 | 1131.0 | 1133.3 | 1137.0 |
| 32.5° | 1080.6 | 1083.8 | 1087.0 | 1090.2 | 1093.4 | 1096.4 | 1099.0 | 1101.6 | 1104.2 | 1106.8 | 1111.1 |
| 35° | 1032.5 | 1036.5 | 1040.5 | 1044.5 | 1048.5 | 1052.2 | 1055.6 | 1058.9 | 1062.2 | 1065.5 | 1070.3 |
| 37.5° | 984.0 | 988.6 | 993.3 | 997.9 | 1002.5 | 1006.8 | 1011.0 | 1015.1 | 1019.3 | 1023.4 | 1028.2 |
| 40° | 952.7 | 957.1 | 961.4 | 965.7 | 970.1 | 974.6 | 979.3 | 984.0 | 988.6 | 993.3 | 998.3 |
| 42.5° | 916.6 | 921.4 | 926.3 | 931.2 | 936.1 | 941.3 | 946.8 | 952.3 | 957.7 | 963.3 | 968.8 |
| 45° | 860.9 | 867.2 | 873.6 | 880.0 | 886.3 | 892.7 | 899.0 | 905.4 | 911.7 | 918.1 | 923.8 |
| 47.5° | 807.6 | 814.2 | 820.8 | 827.3 | 833.9 | 840.8 | 848.2 | 855.5 | 862.9 | 870.2 | 876.1 |
| 50° | 769.1 | 776.5 | 783.8 | 791.2 | 798.5 | 805.9 | 813.2 | 820.6 | 827.9 | 835.3 | 842.0 |
| 52.5° | 730.6 | 737.9 | 745.3 | 752.6 | 760.0 | 767.9 | 776.3 | 784.8 | 793.1 | 801.6 | 808.3 |
| 55° | 674.3 | 681.3 | 688.3 | 695.3 | 702.4 | 710.9 | 721.0 | 730.9 | 741.0 | 751.0 | 757.7 |
| 57.5° | 611.3 | 620.1 | 628.8 | 637.4 | 646.1 | 655.4 | 665.4 | 675.4 | 685.4 | 695.3 | 703.3 |
| 60° | 570.4 | 579.1 | 587.8 | 596.5 | 605.2 | 615.1 | 626.1 | 637.2 | 648.2 | 659.2 | 666.9 |
| 62.5° | 530.7 | 540.2 | 549.7 | 559.2 | 568.6 | 578.9 | 590.0 | 601.1 | 612.1 | 623.1 | 630.7 |
| 65° | 466.6 | 477.3 | 488.0 | 498.7 | 509.3 | 520.4 | 531.8 | 543.2 | 554.5 | 565.9 | 574.3 |
| 67.5° | 404.8 | 416.2 | 427.6 | 438.9 | 450.3 | 462.1 | 474.3 | 486.4 | 498.6 | 510.9 | 519.3 |
| 70° | 362.7 | 374.1 | 385.5 | 396.8 | 408.2 | 420.3 | 432.9 | 445.6 | 458.4 | 471.1 | 480.1 |
| 72.5° | 321.8 | 333.4 | 345.1 | 356.7 | 368.3 | 380.9 | 394.5 | 407.9 | 421.4 | 435.0 | 443.7 |
| 75° | 258.9 | 271.3 | 283.6 | 296.0 | 308.4 | 321.6 | 335.6 | 349.7 | 363.7 | 377.8 | 387.1 |
| 77.5° | 200.2 | 213.3 | 226.4 | 239.5 | 252.6 | 266.6 | 281.3 | 296.0 | 310.7 | 325.4 | 334.9 |
| 80° | 164.1 | 177.4 | 190.8 | 204.2 | 217.5 | 231.6 | 246.3 | 261.1 | 275.8 | 290.5 | 300.5 |
| 82.5° | 127.9 | 141.9 | 155.8 | 169.7 | 183.6 | 197.9 | 212.6 | 227.3 | 242.0 | 256.7 | 267.0 |
| 85° | 79.7 | 93.8 | 107.8 | 121.9 | 135.9 | 150.5 | 165.5 | 180.6 | 195.7 | 210.8 | 220.7 |
| 87.5° | 45.2 | 59.4 | 73.6 | 87.8 | 101.9 | 116.5 | 131.6 | 146.7 | 161.6 | 176.7 | 186.7 |
| 90° | 27.3 | 43.5 | 59.5 | 75.5 | 91.6 | 107.8 | 124.1 | 140.4 | 156.7 | 173.1 | 184.3 |
| 92.5° | 36.7 | 48.8 | 61.1 | 73.2 | 85.4 | 99.7 | 116.0 | 132.3 | 148.6 | 165.0 | 175.9 |
| 95° | 79.8 | 82.6 | 85.3 | 88.1 | 90.9 | 99.2 | 113.2 | 127.1 | 141.1 | 155.0 | 165.5 |
| 97.5° | 145.7 | 160.3 | 175.0 | 189.6 | 204.3 | 204.8 | 191.2 | 177.7 | 164.1 | 150.5 | 159.4 |
| 100° | 196.1 | 209.2 | 222.3 | 235.4 | 248.5 | 244.8 | 224.2 | 203.7 | 183.1 | 162.6 | 167.5 |
| 102.5° | 254.0 | 264.9 | 275.7 | 286.5 | 297.4 | 307.0 | 315.4 | 323.8 | 332.2 | 340.5 | 304.6 |
| 105° | 343.2 | 351.4 | 359.5 | 367.7 | 375.8 | 386.6 | 400.3 | 413.9 | 427.4 | 441.0 | 451.6 |
| 107.5° | 428.6 | 434.8 | 441.0 | 447.1 | 453.4 | 463.2 | 476.5 | 489.9 | 503.3 | 516.6 | 525.9 |
| 110° | 485.1 | 490.6 | 496.0 | 501.4 | 506.8 | 516.1 | 529.2 | 542.4 | 555.6 | 568.7 | 576.9 |



TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 540.1 | 545.4 | 550.9 | 556.4 | 561.8 | 570.5 | 582.4 | 594.3 | 606.1 | 617.9 | 625.3 |
| 115° | 624.5 | 628.3 | 632.0 | 635.7 | 639.5 | 646.6 | 657.0 | 667.5 | 678.0 | 688.4 | 696.3 |
| 117.5° | 702.0 | 704.7 | 707.6 | 710.3 | 713.1 | 719.7 | 730.3 | 740.7 | 751.2 | 761.8 | 768.6 |
| 120° | 753.4 | 755.4 | 757.3 | 759.3 | 761.3 | 766.9 | 776.5 | 785.9 | 795.3 | 804.8 | 812.0 |
| 122.5° | 802.4 | 803.2 | 804.0 | 804.7 | 805.6 | 810.7 | 820.2 | 829.7 | 839.2 | 848.8 | 855.7 |
| 125° | 871.2 | 871.9 | 872.5 | 873.2 | 873.7 | 878.1 | 885.9 | 893.8 | 901.6 | 909.6 | 916.6 |
| 127.5° | 937.5 | 937.5 | 937.4 | 937.3 | 937.2 | 940.8 | 948.4 | 955.9 | 963.5 | 971.0 | 976.9 |
| 130° | 979.2 | 979.1 | 979.0 | 978.9 | 978.8 | 981.8 | 988.0 | 994.0 | 1000.1 | 1006.2 | 1012.5 |
| 132.5° | 1018.7 | 1018.8 | 1018.9 | 1019.0 | 1019.1 | 1021.7 | 1026.9 | 1032.2 | 1037.4 | 1042.5 | 1048.6 |
| 135° | 1076.3 | 1076.0 | 1075.8 | 1075.5 | 1075.3 | 1076.9 | 1080.2 | 1083.5 | 1086.8 | 1090.1 | 1096.0 |
| 137.5° | 1128.6 | 1128.4 | 1128.1 | 1127.9 | 1127.7 | 1128.7 | 1130.9 | 1133.1 | 1135.3 | 1137.6 | 1142.9 |
| 140° | 1162.8 | 1163.0 | 1163.1 | 1163.3 | 1163.4 | 1163.9 | 1164.7 | 1165.5 | 1166.4 | 1167.2 | 1172.2 |
| 142.5° | 1192.3 | 1193.1 | 1193.9 | 1194.7 | 1195.5 | 1196.0 | 1196.1 | 1196.2 | 1196.3 | 1196.4 | 1200.7 |
| 145° | 1239.1 | 1239.4 | 1239.8 | 1240.3 | 1240.7 | 1240.9 | 1240.9 | 1240.9 | 1240.9 | 1240.9 | 1243.1 |
| 147.5° | 1276.5 | 1277.5 | 1278.6 | 1279.6 | 1280.6 | 1281.0 | 1280.8 | 1280.5 | 1280.3 | 1280.1 | 1280.5 |
| 150° | 1303.7 | 1304.3 | 1305.0 | 1305.6 | 1306.3 | 1306.5 | 1306.2 | 1306.0 | 1305.7 | 1305.4 | 1305.4 |
| 152.5° | 1325.3 | 1326.0 | 1326.7 | 1327.4 | 1328.1 | 1328.2 | 1327.9 | 1327.4 | 1326.9 | 1326.5 | 1326.9 |
| 155° | 1357.0 | 1357.2 | 1357.4 | 1357.6 | 1357.9 | 1357.6 | 1357.0 | 1356.2 | 1355.5 | 1354.7 | 1355.8 |
| 157.5° | 1383.8 | 1383.7 | 1383.6 | 1383.5 | 1383.3 | 1382.8 | 1382.0 | 1381.2 | 1380.4 | 1379.5 | 1380.7 |
| 160° | 1399.7 | 1398.9 | 1398.2 | 1397.5 | 1396.8 | 1396.3 | 1396.0 | 1395.7 | 1395.5 | 1395.2 | 1396.8 |
| 162.5° | 1413.6 | 1412.8 | 1411.8 | 1410.9 | 1409.9 | 1409.4 | 1409.1 | 1408.9 | 1408.6 | 1408.4 | 1409.9 |
| 165° | 1431.4 | 1430.2 | 1429.0 | 1427.8 | 1426.5 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1427.9 |
| 167.5° | 1445.4 | 1444.2 | 1442.9 | 1441.6 | 1440.4 | 1439.6 | 1439.5 | 1439.4 | 1439.3 | 1439.1 | 1441.2 |
| 170° | 1453.3 | 1451.9 | 1450.4 | 1449.0 | 1447.5 | 1446.9 | 1447.1 | 1447.4 | 1447.6 | 1447.8 | 1449.8 |
| 172.5° | 1458.6 | 1457.1 | 1455.7 | 1454.2 | 1452.7 | 1452.1 | 1452.4 | 1452.6 | 1452.8 | 1453.1 | 1455.0 |
| 175° | 1464.2 | 1462.8 | 1461.3 | 1459.9 | 1458.4 | 1457.8 | 1458.0 | 1458.3 | 1458.6 | 1458.8 | 1460.9 |
| 177.5° | 1466.9 | 1465.6 | 1464.1 | 1462.8 | 1461.4 | 1460.9 | 1461.3 | 1461.7 | 1462.2 | 1462.5 | 1464.1 |
| 180° | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 |



TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 | 1344.1 |
| 2.5° | 1339.4 | 1341.2 | 1343.1 | 1343.9 | 1343.6 | 1343.3 | 1343.1 | 1342.8 |
| 5° | 1335.9 | 1338.5 | 1341.1 | 1342.4 | 1342.0 | 1341.7 | 1341.3 | 1341.0 |
| 7.5° | 1328.7 | 1331.7 | 1334.7 | 1336.1 | 1335.7 | 1335.4 | 1335.0 | 1334.7 |
| 10° | 1321.4 | 1324.5 | 1327.5 | 1328.8 | 1328.5 | 1328.1 | 1327.8 | 1327.5 |
| 12.5° | 1311.3 | 1314.0 | 1316.7 | 1318.1 | 1318.1 | 1318.0 | 1317.9 | 1317.9 |
| 15° | 1292.9 | 1295.9 | 1298.8 | 1300.2 | 1299.9 | 1299.6 | 1299.2 | 1298.8 |
| 17.5° | 1270.5 | 1273.5 | 1276.6 | 1278.0 | 1277.7 | 1277.4 | 1277.1 | 1276.9 |
| 20° | 1252.9 | 1256.2 | 1259.6 | 1261.2 | 1261.2 | 1261.2 | 1261.2 | 1261.2 |
| 22.5° | 1232.4 | 1235.8 | 1239.1 | 1241.0 | 1241.6 | 1242.1 | 1242.6 | 1243.2 |
| 25° | 1200.9 | 1204.6 | 1208.2 | 1210.2 | 1210.6 | 1210.9 | 1211.3 | 1211.5 |
| 27.5° | 1165.5 | 1168.8 | 1172.2 | 1174.1 | 1174.6 | 1175.0 | 1175.4 | 1175.7 |
| 30° | 1140.7 | 1144.3 | 1148.0 | 1150.2 | 1150.8 | 1151.5 | 1152.2 | 1152.9 |
| 32.5° | 1115.2 | 1119.5 | 1123.7 | 1126.1 | 1126.8 | 1127.5 | 1128.1 | 1128.8 |
| 35° | 1075.0 | 1079.6 | 1084.3 | 1087.1 | 1088.2 | 1089.2 | 1090.1 | 1091.2 |
| 37.5° | 1032.9 | 1037.6 | 1042.5 | 1045.4 | 1046.4 | 1047.4 | 1048.6 | 1049.6 |
| 40° | 1003.3 | 1008.4 | 1013.4 | 1016.6 | 1017.9 | 1019.3 | 1020.6 | 1021.9 |
| 42.5° | 974.3 | 979.9 | 985.4 | 988.7 | 989.9 | 990.9 | 991.9 | 993.1 |
| 45° | 929.4 | 935.2 | 940.8 | 944.5 | 946.2 | 947.8 | 949.5 | 951.2 |
| 47.5° | 882.0 | 887.9 | 893.8 | 897.7 | 899.8 | 901.7 | 903.7 | 905.8 |
| 50° | 848.7 | 855.4 | 862.0 | 866.4 | 868.5 | 870.4 | 872.4 | 874.4 |
| 52.5° | 815.0 | 821.7 | 828.3 | 832.7 | 834.7 | 836.7 | 838.7 | 840.7 |
| 55° | 764.4 | 771.1 | 777.8 | 782.1 | 784.1 | 786.2 | 788.2 | 790.1 |
| 57.5° | 711.2 | 719.3 | 727.2 | 732.1 | 734.0 | 735.8 | 737.7 | 739.6 |
| 60° | 674.6 | 682.3 | 689.9 | 695.1 | 697.9 | 700.5 | 703.2 | 705.9 |
| 62.5° | 638.5 | 646.2 | 653.8 | 659.0 | 661.8 | 664.4 | 667.0 | 669.8 |
| 65° | 582.6 | 591.0 | 599.4 | 604.8 | 607.6 | 610.2 | 612.9 | 615.6 |
| 67.5° | 527.8 | 536.3 | 544.8 | 550.4 | 553.0 | 555.5 | 558.2 | 560.8 |
| 70° | 489.2 | 498.1 | 507.2 | 512.9 | 515.2 | 517.6 | 519.9 | 522.3 |
| 72.5° | 452.5 | 461.3 | 470.0 | 475.7 | 478.3 | 480.9 | 483.5 | 486.2 |
| 75° | 396.5 | 405.9 | 415.2 | 421.4 | 424.4 | 427.4 | 430.5 | 433.5 |
| 77.5° | 344.4 | 353.9 | 363.4 | 369.8 | 373.0 | 376.2 | 379.4 | 382.6 |
| 80° | 310.6 | 320.6 | 330.6 | 337.0 | 339.6 | 342.3 | 345.0 | 347.7 |
| 82.5° | 277.4 | 287.7 | 297.9 | 304.6 | 307.6 | 310.5 | 313.4 | 316.3 |
| 85° | 230.7 | 240.8 | 250.8 | 257.5 | 260.9 | 264.2 | 267.6 | 270.9 |
| 87.5° | 196.7 | 206.7 | 216.7 | 223.2 | 226.2 | 229.2 | 232.3 | 235.4 |
| 90° | 195.4 | 206.6 | 217.7 | 224.9 | 228.1 | 231.2 | 234.4 | 237.5 |
| 92.5° | 186.8 | 197.7 | 208.6 | 215.4 | 218.2 | 220.9 | 223.8 | 226.5 |
| 95° | 176.0 | 186.5 | 197.0 | 203.9 | 207.1 | 210.4 | 213.7 | 216.9 |
| 97.5° | 168.3 | 177.3 | 186.2 | 192.2 | 195.3 | 198.4 | 201.5 | 204.6 |
| 100° | 172.4 | 177.3 | 182.1 | 185.9 | 188.5 | 191.1 | 193.6 | 196.2 |
| 102.5° | 268.8 | 232.9 | 197.1 | 180.4 | 183.1 | 185.8 | 188.4 | 191.1 |
| 105° | 462.1 | 472.7 | 483.2 | 485.5 | 479.4 | 473.3 | 467.2 | 461.1 |
| 107.5° | 535.3 | 544.5 | 553.8 | 560.2 | 563.5 | 566.8 | 570.1 | 573.4 |
| 110° | 585.1 | 593.3 | 601.5 | 607.3 | 610.7 | 614.1 | 617.5 | 620.9 |



TEST NUMBER: P332709-830

CATALOG NUMBER: S124DIP-S1195D1205U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 632.6 | 639.9 | 647.2 | 652.7 | 656.3 | 659.9 | 663.5 | 667.1 |
| 115° | 704.1 | 712.0 | 719.8 | 724.9 | 727.3 | 729.6 | 731.9 | 734.2 |
| 117.5° | 775.4 | 782.3 | 789.2 | 793.9 | 796.4 | 799.1 | 801.6 | 804.2 |
| 120° | 819.2 | 826.3 | 833.5 | 838.2 | 840.4 | 842.5 | 844.7 | 847.0 |
| 122.5° | 862.7 | 869.7 | 876.7 | 881.1 | 883.0 | 885.0 | 886.8 | 888.8 |
| 125° | 923.7 | 930.8 | 937.8 | 942.5 | 944.8 | 947.1 | 949.3 | 951.5 |
| 127.5° | 982.8 | 988.6 | 994.6 | 998.5 | 1000.6 | 1002.7 | 1004.8 | 1006.8 |
| 130° | 1018.7 | 1025.0 | 1031.2 | 1035.4 | 1037.4 | 1039.4 | 1041.4 | 1043.4 |
| 132.5° | 1054.5 | 1060.5 | 1066.6 | 1070.4 | 1072.2 | 1074.0 | 1075.9 | 1077.7 |
| 135° | 1101.8 | 1107.7 | 1113.4 | 1117.7 | 1120.1 | 1122.7 | 1125.1 | 1127.6 |
| 137.5° | 1148.4 | 1153.8 | 1159.2 | 1162.6 | 1164.2 | 1165.7 | 1167.2 | 1168.8 |
| 140° | 1177.3 | 1182.4 | 1187.5 | 1191.0 | 1192.9 | 1194.9 | 1196.7 | 1198.6 |
| 142.5° | 1205.0 | 1209.4 | 1213.7 | 1216.6 | 1218.0 | 1219.6 | 1221.0 | 1222.5 |
| 145° | 1245.4 | 1247.6 | 1249.8 | 1251.9 | 1253.7 | 1255.6 | 1257.4 | 1259.1 |
| 147.5° | 1281.0 | 1281.5 | 1282.0 | 1282.8 | 1284.1 | 1285.4 | 1286.8 | 1288.1 |
| 150° | 1305.4 | 1305.4 | 1305.4 | 1305.6 | 1305.8 | 1306.1 | 1306.4 | 1306.6 |
| 152.5° | 1327.3 | 1327.7 | 1328.0 | 1328.1 | 1328.0 | 1327.9 | 1327.8 | 1327.6 |
| 155° | 1356.7 | 1357.6 | 1358.7 | 1358.8 | 1358.0 | 1357.3 | 1356.6 | 1355.8 |
| 157.5° | 1382.1 | 1383.3 | 1384.6 | 1384.6 | 1383.3 | 1382.1 | 1380.7 | 1379.5 |
| 160° | 1398.2 | 1399.7 | 1401.1 | 1401.1 | 1399.7 | 1398.2 | 1396.8 | 1395.2 |
| 162.5° | 1411.4 | 1412.8 | 1414.3 | 1414.2 | 1412.5 | 1410.9 | 1409.2 | 1407.5 |
| 165° | 1429.8 | 1431.8 | 1433.7 | 1433.6 | 1431.4 | 1429.2 | 1427.0 | 1424.8 |
| 167.5° | 1443.4 | 1445.5 | 1447.7 | 1447.5 | 1445.1 | 1442.7 | 1440.2 | 1437.8 |
| 170° | 1451.7 | 1453.7 | 1455.7 | 1455.4 | 1452.9 | 1450.5 | 1448.1 | 1445.7 |
| 172.5° | 1457.0 | 1459.0 | 1460.8 | 1460.6 | 1457.9 | 1455.3 | 1452.6 | 1450.0 |
| 175° | 1463.2 | 1465.4 | 1467.5 | 1467.2 | 1464.2 | 1461.3 | 1458.4 | 1455.5 |
| 177.5° | 1465.7 | 1467.2 | 1468.8 | 1468.4 | 1466.0 | 1463.7 | 1461.3 | 1459.1 |
| 180° | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 | 1464.2 |

(END OF REPORT)