

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: P332659-930

Luminaire Tested: **S124DIP-S1020D1035U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332659-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1035U930-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6532.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

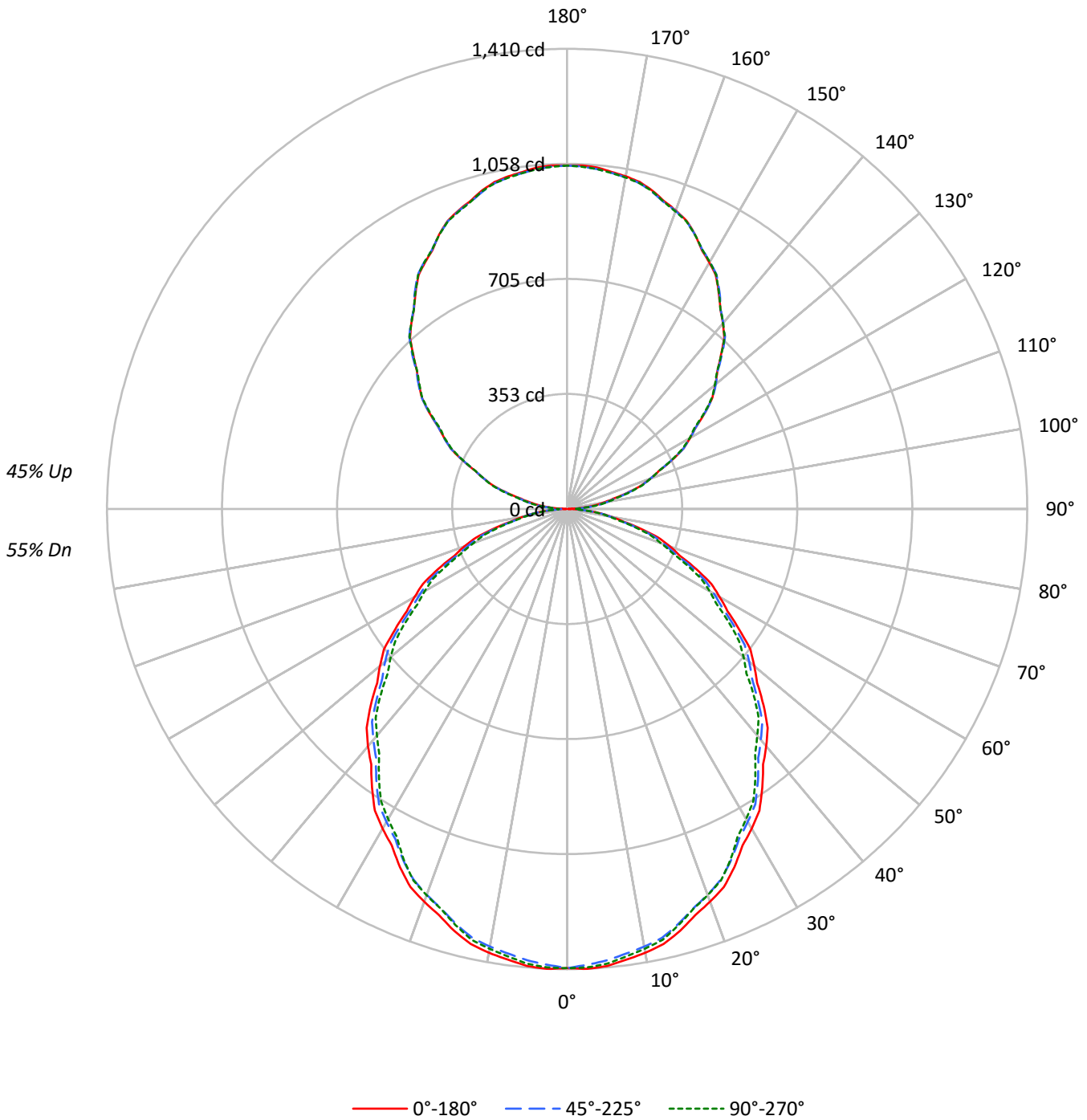
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 81 | 76 | 73 | 71 | 64 | 62 | 61 | 54 | 53 | 51 | 46 |
| 2 | 90 | 83 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 70 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 38 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 47 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 25 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 32 | 28 | 31 | 27 | 24 | 22 |
| 7 | 59 | 46 | 38 | 33 | 55 | 44 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 18 | 15 |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11357 | 11357 | 11357 |
| 5° | 11391 | 11255 | 11336 |
| 10° | 11320 | 11163 | 11218 |
| 15° | 11183 | 11004 | 11032 |
| 20° | 11001 | 10808 | 10817 |
| 25° | 10794 | 10583 | 10553 |
| 30° | 10540 | 10318 | 10224 |
| 35° | 10276 | 10042 | 9909 |
| 40° | 10003 | 9729 | 9551 |
| 45° | 9717 | 9421 | 9240 |
| 50° | 9401 | 9146 | 8862 |
| 55° | 9060 | 8790 | 8504 |
| 60° | 8719 | 8391 | 8136 |
| 65° | 8334 | 8010 | 7687 |
| 70° | 7903 | 7504 | 7211 |
| 75° | 7243 | 6890 | 6716 |
| 80° | 6448 | 6183 | 6025 |
| 85° | 5641 | 5428 | 5326 |



TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.5 | 2.0 |
| 10°-20° | 373.3 | 5.7 |
| 20°-30° | 549.4 | 8.4 |
| 30°-40° | 638.7 | 9.8 |
| 40°-50° | 638.7 | 9.8 |
| 50°-60° | 558.7 | 8.6 |
| 60°-70° | 414.9 | 6.4 |
| 70°-80° | 235.7 | 3.6 |
| 80°-90° | 71.2 | 1.1 |
| 90°-100° | 69.4 | 1.1 |
| 100°-110° | 205.6 | 3.1 |
| 110°-120° | 348.9 | 5.3 |
| 120°-130° | 460.1 | 7.0 |
| 130°-140° | 516.7 | 7.9 |
| 140°-150° | 507.8 | 7.8 |
| 150°-160° | 427.1 | 6.5 |
| 160°-170° | 284.1 | 4.3 |
| 170°-180° | 99.5 | 1.5 |
| 0°-30° | 1055.2 | 16.2 |
| 0°-40° | 1693.9 | 25.9 |
| 0°-60° | 2891.3 | 44.3 |
| 0°-90° | 3613.2 | 55.3 |
| 90°-120° | 623.9 | 9.6 |
| 90°-150° | 2108.6 | 32.3 |
| 90°-180° | 2919.0 | 44.7 |
| 0°-180° | 6532.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1407 | 1407 | 1407 | 1407 | 1407 | |
| 5° | 1406 | 1401 | 1389 | 1400 | 1399 | 133 |
| 15° | 1338 | 1333 | 1317 | 1323 | 1320 | 377 |
| 25° | 1212 | 1204 | 1188 | 1189 | 1185 | 557 |
| 35° | 1043 | 1034 | 1019 | 1011 | 1006 | 652 |
| 45° | 851 | 843 | 825 | 813 | 809 | 656 |
| 55° | 644 | 640 | 624 | 611 | 604 | 576 |
| 65° | 436 | 430 | 419 | 408 | 402 | 432 |
| 75° | 232 | 227 | 221 | 217 | 215 | 247 |
| 85° | 61 | 61 | 59 | 59 | 58 | 67 |
| 90° | 2 | 11 | 18 | 23 | 24 | 6 |
| 95° | 49 | 56 | 62 | 64 | 64 | 54 |
| 105° | 190 | 191 | 194 | 196 | 198 | 201 |
| 115° | 355 | 355 | 353 | 352 | 352 | 350 |
| 125° | 517 | 517 | 516 | 514 | 513 | 460 |
| 135° | 666 | 671 | 671 | 670 | 667 | 515 |
| 145° | 810 | 813 | 814 | 813 | 810 | 507 |
| 155° | 928 | 928 | 927 | 930 | 927 | 427 |
| 165° | 1010 | 1008 | 1006 | 1010 | 1008 | 285 |
| 175° | 1051 | 1047 | 1046 | 1051 | 1046 | 100 |
| 180° | 1052 | 1052 | 1052 | 1052 | 1052 | |



TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 |
| 2.5° | 1410.4 | 1409.8 | 1409.2 | 1408.6 | 1408.0 | 1406.6 | 1404.4 | 1402.2 | 1400.0 | 1397.7 | 1399.8 |
| 5° | 1405.7 | 1404.7 | 1403.7 | 1402.6 | 1401.7 | 1399.8 | 1397.0 | 1394.2 | 1391.6 | 1388.8 | 1391.6 |
| 7.5° | 1392.6 | 1391.6 | 1390.6 | 1389.6 | 1388.6 | 1386.6 | 1383.5 | 1380.5 | 1377.4 | 1374.4 | 1376.6 |
| 10° | 1380.9 | 1379.9 | 1378.8 | 1377.9 | 1376.9 | 1374.8 | 1371.5 | 1368.2 | 1365.0 | 1361.7 | 1363.7 |
| 12.5° | 1365.5 | 1364.6 | 1363.5 | 1362.5 | 1361.5 | 1359.3 | 1355.8 | 1352.4 | 1348.9 | 1345.5 | 1347.7 |
| 15° | 1338.1 | 1337.0 | 1336.0 | 1335.1 | 1334.0 | 1331.6 | 1327.9 | 1324.1 | 1320.4 | 1316.6 | 1318.1 |
| 17.5° | 1304.9 | 1303.7 | 1302.4 | 1301.1 | 1299.9 | 1297.5 | 1293.9 | 1290.4 | 1286.8 | 1283.3 | 1284.2 |
| 20° | 1280.5 | 1279.3 | 1278.1 | 1276.8 | 1275.5 | 1273.0 | 1269.3 | 1265.5 | 1261.8 | 1258.0 | 1258.7 |
| 22.5° | 1254.4 | 1252.7 | 1251.1 | 1249.4 | 1247.8 | 1245.0 | 1241.3 | 1237.5 | 1233.8 | 1230.0 | 1231.4 |
| 25° | 1211.8 | 1210.1 | 1208.3 | 1206.5 | 1204.8 | 1202.2 | 1198.7 | 1195.1 | 1191.6 | 1188.1 | 1188.4 |
| 27.5° | 1163.1 | 1161.3 | 1159.4 | 1157.6 | 1155.8 | 1153.3 | 1150.1 | 1146.8 | 1143.5 | 1140.3 | 1139.7 |
| 30° | 1130.7 | 1128.6 | 1126.6 | 1124.6 | 1122.6 | 1120.0 | 1116.7 | 1113.5 | 1110.2 | 1106.9 | 1106.0 |
| 32.5° | 1096.3 | 1094.5 | 1092.7 | 1091.0 | 1089.2 | 1086.5 | 1083.0 | 1079.6 | 1076.1 | 1072.7 | 1071.5 |
| 35° | 1042.7 | 1041.0 | 1039.2 | 1037.5 | 1035.7 | 1033.1 | 1029.6 | 1026.1 | 1022.5 | 1019.0 | 1017.2 |
| 37.5° | 986.1 | 984.5 | 982.9 | 981.3 | 979.7 | 977.1 | 973.2 | 969.5 | 965.7 | 962.0 | 960.1 |
| 40° | 949.2 | 947.1 | 945.1 | 943.1 | 941.1 | 938.2 | 934.5 | 930.7 | 927.0 | 923.2 | 920.7 |
| 42.5° | 909.5 | 908.2 | 907.0 | 905.9 | 904.7 | 902.0 | 897.8 | 893.6 | 889.5 | 885.3 | 882.4 |
| 45° | 851.1 | 849.3 | 847.6 | 845.8 | 844.1 | 841.1 | 837.1 | 833.2 | 829.2 | 825.2 | 822.4 |
| 47.5° | 789.9 | 788.8 | 787.6 | 786.4 | 785.1 | 782.7 | 779.0 | 775.3 | 771.6 | 767.8 | 764.8 |
| 50° | 748.5 | 747.5 | 746.5 | 745.5 | 744.4 | 742.2 | 738.7 | 735.2 | 731.7 | 728.2 | 724.7 |
| 52.5° | 707.9 | 706.7 | 705.5 | 704.3 | 703.1 | 700.7 | 696.9 | 693.2 | 689.5 | 685.8 | 682.7 |
| 55° | 643.7 | 642.9 | 642.1 | 641.4 | 640.7 | 638.5 | 635.0 | 631.5 | 628.0 | 624.5 | 621.5 |
| 57.5° | 582.4 | 581.5 | 580.7 | 579.8 | 578.9 | 576.7 | 573.3 | 569.9 | 566.4 | 563.0 | 560.1 |
| 60° | 540.0 | 538.7 | 537.4 | 536.2 | 534.9 | 532.7 | 529.5 | 526.2 | 522.9 | 519.7 | 517.4 |
| 62.5° | 498.5 | 497.4 | 496.4 | 495.3 | 494.2 | 492.0 | 488.5 | 485.1 | 481.6 | 478.2 | 476.1 |
| 65° | 436.3 | 435.0 | 433.7 | 432.5 | 431.2 | 429.3 | 426.8 | 424.4 | 421.8 | 419.3 | 416.9 |
| 67.5° | 373.6 | 372.4 | 371.3 | 370.1 | 368.9 | 367.2 | 364.8 | 362.4 | 360.0 | 357.6 | 355.1 |
| 70° | 334.8 | 333.0 | 331.3 | 329.5 | 327.8 | 325.9 | 323.9 | 321.9 | 319.9 | 317.9 | 315.8 |
| 72.5° | 293.3 | 291.6 | 289.8 | 288.0 | 286.3 | 284.6 | 283.0 | 281.4 | 279.8 | 278.2 | 276.6 |
| 75° | 232.2 | 231.0 | 229.7 | 228.4 | 227.2 | 225.9 | 224.7 | 223.5 | 222.2 | 220.9 | 220.0 |
| 77.5° | 173.8 | 173.3 | 172.7 | 172.2 | 171.6 | 170.8 | 169.7 | 168.6 | 167.5 | 166.4 | 166.1 |
| 80° | 138.7 | 137.9 | 137.1 | 136.4 | 135.7 | 135.0 | 134.5 | 134.0 | 133.5 | 133.0 | 132.5 |
| 82.5° | 104.4 | 104.0 | 103.7 | 103.3 | 103.0 | 102.7 | 102.6 | 102.6 | 102.5 | 102.3 | 102.1 |
| 85° | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.7 | 60.1 | 59.6 | 59.1 | 58.6 | 58.6 |
| 87.5° | 24.0 | 24.1 | 24.3 | 24.5 | 24.7 | 24.9 | 24.9 | 25.0 | 25.1 | 25.2 | 25.4 |
| 90° | 2.4 | 4.4 | 6.4 | 8.4 | 10.4 | 12.1 | 13.5 | 15.0 | 16.5 | 17.9 | 19.0 |
| 92.5° | 17.4 | 19.7 | 21.9 | 24.2 | 26.5 | 28.2 | 29.2 | 30.2 | 31.2 | 32.2 | 32.9 |
| 95° | 48.8 | 50.5 | 52.1 | 53.7 | 55.4 | 56.7 | 58.0 | 59.4 | 60.6 | 61.9 | 62.4 |
| 97.5° | 85.3 | 86.6 | 87.9 | 89.2 | 90.5 | 91.9 | 93.4 | 94.8 | 96.4 | 97.8 | 98.5 |
| 100° | 113.9 | 114.6 | 115.4 | 116.1 | 116.8 | 118.0 | 119.6 | 121.2 | 122.9 | 124.5 | 124.9 |
| 102.5° | 143.9 | 144.1 | 144.5 | 144.7 | 145.0 | 145.9 | 147.4 | 148.9 | 150.3 | 151.9 | 152.4 |
| 105° | 189.6 | 189.8 | 190.0 | 190.1 | 190.4 | 190.8 | 191.5 | 192.2 | 193.0 | 193.7 | 194.2 |
| 107.5° | 237.7 | 237.8 | 238.1 | 238.3 | 238.5 | 238.6 | 238.8 | 238.9 | 239.0 | 239.1 | 239.6 |
| 110° | 270.2 | 270.5 | 270.9 | 271.3 | 271.7 | 271.7 | 271.5 | 271.3 | 271.2 | 271.0 | 270.6 |



TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 304.0 | 304.1 | 304.2 | 304.3 | 304.4 | 304.2 | 303.9 | 303.5 | 303.2 | 302.9 | 302.8 |
| 115° | 354.8 | 354.8 | 354.8 | 354.8 | 354.8 | 354.7 | 354.2 | 353.9 | 353.5 | 353.2 | 353.0 |
| 117.5° | 402.7 | 402.8 | 402.9 | 403.1 | 403.2 | 403.2 | 402.9 | 402.7 | 402.4 | 402.2 | 401.5 |
| 120° | 434.6 | 435.3 | 436.0 | 436.8 | 437.5 | 437.6 | 437.0 | 436.4 | 435.9 | 435.4 | 434.5 |
| 122.5° | 467.7 | 468.1 | 468.3 | 468.6 | 468.9 | 469.0 | 468.7 | 468.4 | 468.1 | 467.9 | 467.3 |
| 125° | 516.7 | 516.7 | 516.7 | 516.7 | 516.7 | 516.7 | 516.5 | 516.3 | 516.1 | 515.9 | 515.6 |
| 127.5° | 561.2 | 561.7 | 562.2 | 562.8 | 563.4 | 563.5 | 563.2 | 562.9 | 562.6 | 562.3 | 562.0 |
| 130° | 592.4 | 593.0 | 593.5 | 594.0 | 594.6 | 594.8 | 594.8 | 594.8 | 594.8 | 594.8 | 594.5 |
| 132.5° | 624.4 | 624.8 | 625.1 | 625.5 | 625.9 | 626.1 | 625.9 | 625.7 | 625.6 | 625.5 | 625.1 |
| 135° | 666.5 | 667.6 | 668.6 | 669.8 | 670.8 | 671.4 | 671.4 | 671.4 | 671.4 | 671.4 | 671.0 |
| 137.5° | 712.4 | 712.9 | 713.4 | 713.9 | 714.4 | 714.8 | 715.1 | 715.4 | 715.7 | 716.0 | 715.5 |
| 140° | 743.0 | 743.3 | 743.7 | 744.0 | 744.4 | 744.6 | 744.6 | 744.6 | 744.6 | 744.6 | 744.4 |
| 142.5° | 770.9 | 771.4 | 771.7 | 772.1 | 772.4 | 772.5 | 772.4 | 772.3 | 772.1 | 771.9 | 771.9 |
| 145° | 809.7 | 810.4 | 811.1 | 811.9 | 812.6 | 813.0 | 813.3 | 813.4 | 813.6 | 813.8 | 813.6 |
| 147.5° | 848.2 | 849.0 | 849.9 | 850.8 | 851.6 | 852.0 | 851.8 | 851.7 | 851.5 | 851.4 | 851.3 |
| 150° | 871.6 | 872.3 | 873.0 | 873.8 | 874.5 | 874.8 | 874.8 | 874.8 | 874.8 | 874.8 | 874.8 |
| 152.5° | 893.7 | 894.1 | 894.5 | 895.0 | 895.4 | 895.7 | 895.9 | 896.0 | 896.2 | 896.3 | 896.7 |
| 155° | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.6 | 927.4 | 927.2 | 927.1 | 926.9 | 927.6 |
| 157.5° | 956.3 | 956.0 | 955.7 | 955.4 | 955.0 | 954.9 | 954.8 | 954.8 | 954.8 | 954.7 | 955.3 |
| 160° | 973.3 | 973.1 | 972.9 | 972.7 | 972.6 | 972.4 | 972.2 | 972.0 | 971.8 | 971.7 | 972.2 |
| 162.5° | 988.9 | 988.5 | 988.0 | 987.5 | 987.0 | 986.7 | 986.5 | 986.3 | 986.2 | 985.9 | 986.9 |
| 165° | 1009.9 | 1009.3 | 1008.9 | 1008.3 | 1007.7 | 1007.3 | 1006.9 | 1006.6 | 1006.2 | 1005.8 | 1006.9 |
| 167.5° | 1026.1 | 1025.2 | 1024.5 | 1023.8 | 1023.0 | 1022.6 | 1022.6 | 1022.7 | 1022.7 | 1022.8 | 1023.9 |
| 170° | 1035.1 | 1034.2 | 1033.3 | 1032.4 | 1031.5 | 1031.1 | 1031.4 | 1031.5 | 1031.7 | 1031.8 | 1033.0 |
| 172.5° | 1041.6 | 1040.9 | 1040.2 | 1039.3 | 1038.6 | 1038.2 | 1038.3 | 1038.3 | 1038.4 | 1038.4 | 1039.6 |
| 175° | 1050.6 | 1049.7 | 1048.8 | 1047.9 | 1047.0 | 1046.4 | 1046.3 | 1046.0 | 1045.9 | 1045.7 | 1047.0 |
| 177.5° | 1053.5 | 1052.8 | 1052.1 | 1051.3 | 1050.6 | 1050.3 | 1050.3 | 1050.3 | 1050.3 | 1050.3 | 1051.2 |
| 180° | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 |



TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 | 1406.8 |
| 2.5° | 1401.7 | 1403.8 | 1405.8 | 1406.7 | 1406.5 | 1406.3 | 1406.1 | 1405.9 |
| 5° | 1394.2 | 1397.0 | 1399.8 | 1400.9 | 1400.4 | 1399.9 | 1399.4 | 1398.9 |
| 7.5° | 1378.8 | 1381.0 | 1383.2 | 1384.1 | 1383.8 | 1383.5 | 1383.2 | 1382.9 |
| 10° | 1365.7 | 1367.7 | 1369.7 | 1370.4 | 1369.9 | 1369.5 | 1369.0 | 1368.5 |
| 12.5° | 1349.9 | 1352.1 | 1354.3 | 1355.0 | 1354.4 | 1353.6 | 1352.9 | 1352.3 |
| 15° | 1319.6 | 1321.1 | 1322.7 | 1323.0 | 1322.3 | 1321.5 | 1320.8 | 1320.0 |
| 17.5° | 1285.2 | 1286.1 | 1287.0 | 1287.3 | 1286.8 | 1286.3 | 1285.8 | 1285.2 |
| 20° | 1259.5 | 1260.3 | 1261.0 | 1261.1 | 1260.6 | 1260.1 | 1259.6 | 1259.1 |
| 22.5° | 1232.7 | 1234.1 | 1235.4 | 1235.7 | 1234.8 | 1233.9 | 1233.0 | 1232.1 |
| 25° | 1188.6 | 1188.9 | 1189.1 | 1188.7 | 1187.7 | 1186.7 | 1185.7 | 1184.7 |
| 27.5° | 1139.1 | 1138.5 | 1137.9 | 1137.0 | 1135.7 | 1134.5 | 1133.2 | 1132.0 |
| 30° | 1105.0 | 1103.9 | 1102.9 | 1101.8 | 1100.6 | 1099.3 | 1098.0 | 1096.8 |
| 32.5° | 1070.2 | 1069.1 | 1067.9 | 1066.7 | 1065.4 | 1064.1 | 1062.9 | 1061.6 |
| 35° | 1015.5 | 1013.7 | 1012.0 | 1010.5 | 1009.3 | 1008.0 | 1006.7 | 1005.5 |
| 37.5° | 958.1 | 956.3 | 954.4 | 952.6 | 951.0 | 949.3 | 947.6 | 946.0 |
| 40° | 918.2 | 915.7 | 913.2 | 911.3 | 910.0 | 908.8 | 907.6 | 906.3 |
| 42.5° | 879.5 | 876.6 | 873.7 | 871.8 | 871.0 | 870.1 | 869.3 | 868.5 |
| 45° | 819.6 | 816.8 | 814.1 | 812.4 | 811.6 | 810.9 | 810.1 | 809.3 |
| 47.5° | 761.7 | 758.6 | 755.5 | 752.9 | 751.1 | 749.1 | 747.2 | 745.3 |
| 50° | 721.2 | 717.7 | 714.2 | 711.7 | 710.1 | 708.7 | 707.2 | 705.6 |
| 52.5° | 679.6 | 676.5 | 673.4 | 670.9 | 669.0 | 667.1 | 665.2 | 663.2 |
| 55° | 618.5 | 615.5 | 612.5 | 610.3 | 608.7 | 607.2 | 605.7 | 604.2 |
| 57.5° | 557.3 | 554.4 | 551.5 | 549.3 | 547.9 | 546.5 | 545.0 | 543.6 |
| 60° | 515.2 | 512.9 | 510.6 | 508.9 | 507.6 | 506.4 | 505.2 | 503.9 |
| 62.5° | 474.1 | 472.0 | 469.9 | 468.3 | 467.1 | 465.8 | 464.6 | 463.3 |
| 65° | 414.3 | 411.8 | 409.3 | 407.4 | 406.2 | 405.0 | 403.7 | 402.4 |
| 67.5° | 352.8 | 350.3 | 348.0 | 346.6 | 346.2 | 345.8 | 345.5 | 345.2 |
| 70° | 313.9 | 311.9 | 309.9 | 308.5 | 307.8 | 307.0 | 306.2 | 305.5 |
| 72.5° | 275.0 | 273.4 | 271.8 | 270.6 | 269.9 | 269.1 | 268.4 | 267.6 |
| 75° | 218.9 | 217.9 | 217.0 | 216.3 | 216.1 | 215.8 | 215.6 | 215.3 |
| 77.5° | 165.8 | 165.5 | 165.2 | 164.7 | 164.0 | 163.4 | 162.7 | 162.1 |
| 80° | 132.0 | 131.5 | 131.0 | 130.6 | 130.4 | 130.1 | 129.9 | 129.6 |
| 82.5° | 101.7 | 101.4 | 101.2 | 100.9 | 100.6 | 100.4 | 100.1 | 99.9 |
| 85° | 58.6 | 58.6 | 58.6 | 58.5 | 58.2 | 58.0 | 57.7 | 57.5 |
| 87.5° | 25.7 | 25.8 | 26.1 | 26.3 | 26.3 | 26.4 | 26.4 | 26.5 |
| 90° | 20.1 | 21.2 | 22.3 | 23.0 | 23.3 | 23.7 | 24.1 | 24.4 |
| 92.5° | 33.5 | 34.2 | 34.8 | 35.3 | 35.5 | 35.7 | 36.0 | 36.1 |
| 95° | 62.9 | 63.5 | 64.0 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 |
| 97.5° | 99.1 | 99.8 | 100.4 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 |
| 100° | 125.2 | 125.6 | 126.0 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 |
| 102.5° | 152.9 | 153.4 | 153.8 | 154.2 | 154.3 | 154.5 | 154.7 | 154.7 |
| 105° | 194.8 | 195.3 | 195.8 | 196.4 | 196.9 | 197.5 | 198.0 | 198.5 |
| 107.5° | 240.1 | 240.6 | 241.1 | 241.3 | 241.3 | 241.2 | 241.2 | 241.2 |
| 110° | 270.3 | 269.9 | 269.5 | 269.6 | 270.2 | 270.7 | 271.3 | 271.8 |



TEST NUMBER: P332659-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 302.7 | 302.6 | 302.6 | 302.6 | 302.7 | 302.8 | 303.0 | 303.0 |
| 115° | 352.8 | 352.6 | 352.5 | 352.3 | 352.1 | 351.9 | 351.7 | 351.6 |
| 117.5° | 401.0 | 400.3 | 399.7 | 399.3 | 398.8 | 398.5 | 398.1 | 397.8 |
| 120° | 433.6 | 432.7 | 431.8 | 431.5 | 431.9 | 432.2 | 432.6 | 432.9 |
| 122.5° | 466.7 | 466.1 | 465.5 | 464.8 | 464.1 | 463.5 | 462.8 | 462.2 |
| 125° | 515.2 | 514.9 | 514.5 | 514.1 | 513.8 | 513.4 | 513.1 | 512.7 |
| 127.5° | 561.6 | 561.3 | 560.8 | 560.5 | 560.3 | 559.9 | 559.7 | 559.4 |
| 130° | 594.2 | 593.8 | 593.5 | 592.9 | 592.2 | 591.4 | 590.7 | 590.0 |
| 132.5° | 624.8 | 624.4 | 624.0 | 623.7 | 623.4 | 623.1 | 622.8 | 622.6 |
| 135° | 670.7 | 670.3 | 669.9 | 669.4 | 669.0 | 668.4 | 667.8 | 667.3 |
| 137.5° | 715.0 | 714.5 | 714.1 | 713.9 | 714.0 | 714.1 | 714.2 | 714.4 |
| 140° | 744.3 | 744.0 | 743.9 | 743.7 | 743.6 | 743.3 | 743.1 | 743.0 |
| 142.5° | 771.8 | 771.8 | 771.8 | 771.8 | 771.8 | 771.7 | 771.7 | 771.6 |
| 145° | 813.4 | 813.3 | 813.0 | 812.7 | 812.1 | 811.6 | 811.1 | 810.5 |
| 147.5° | 851.1 | 850.9 | 850.8 | 850.6 | 850.4 | 850.3 | 850.1 | 849.9 |
| 150° | 874.8 | 874.8 | 874.8 | 874.7 | 874.6 | 874.3 | 874.2 | 874.0 |
| 152.5° | 897.2 | 897.6 | 898.1 | 898.1 | 897.6 | 897.1 | 896.6 | 896.1 |
| 155° | 928.4 | 929.0 | 929.8 | 929.8 | 929.0 | 928.4 | 927.6 | 926.9 |
| 157.5° | 955.8 | 956.3 | 956.9 | 956.8 | 956.3 | 955.6 | 955.0 | 954.4 |
| 160° | 972.7 | 973.3 | 973.8 | 973.6 | 972.7 | 971.8 | 970.9 | 970.0 |
| 162.5° | 987.9 | 988.9 | 989.9 | 989.9 | 989.0 | 988.1 | 987.2 | 986.3 |
| 165° | 1008.0 | 1009.1 | 1010.2 | 1010.3 | 1009.7 | 1008.9 | 1008.2 | 1007.5 |
| 167.5° | 1024.9 | 1026.1 | 1027.1 | 1027.1 | 1026.0 | 1024.8 | 1023.7 | 1022.6 |
| 170° | 1034.0 | 1035.1 | 1036.2 | 1036.1 | 1034.9 | 1033.6 | 1032.3 | 1031.0 |
| 172.5° | 1040.8 | 1042.0 | 1043.3 | 1043.3 | 1042.0 | 1040.7 | 1039.5 | 1038.2 |
| 175° | 1048.2 | 1049.5 | 1050.8 | 1050.8 | 1049.5 | 1048.2 | 1047.0 | 1045.7 |
| 177.5° | 1052.3 | 1053.3 | 1054.3 | 1054.3 | 1053.1 | 1051.9 | 1050.8 | 1049.6 |
| 180° | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 |

(END OF REPORT)