

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: P332839-927

Luminaire Tested: **S124DIW-S1195D470U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332839-927
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: S124DIW-S1195D470U927-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5537.3 lumens
Efficiency: N/A
Efficacy: 105.7 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: Semi-Direct

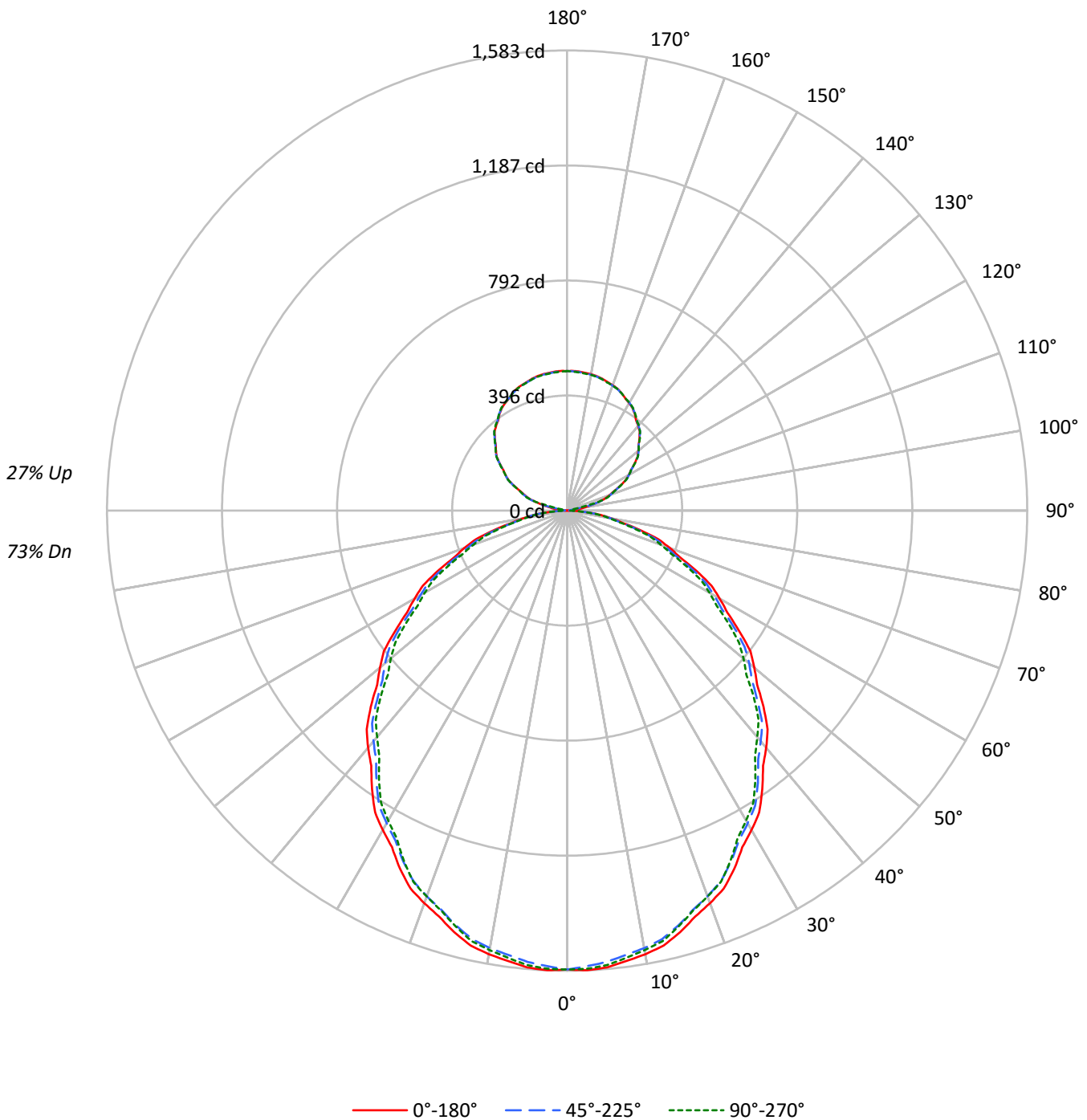
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

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 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 77 | 77 | 77 | 73 |
| 1 | 103 | 98 | 94 | 91 | 98 | 94 | 90 | 87 | 84 | 82 | 79 | 76 | 74 | 72 | 68 | 67 | 65 | 62 |
| 2 | 94 | 86 | 80 | 74 | 89 | 82 | 76 | 71 | 74 | 69 | 66 | 67 | 63 | 60 | 60 | 57 | 55 | 52 |
| 3 | 86 | 76 | 68 | 62 | 81 | 72 | 65 | 60 | 65 | 60 | 55 | 59 | 55 | 51 | 53 | 50 | 47 | 44 |
| 4 | 78 | 67 | 59 | 52 | 74 | 64 | 56 | 51 | 58 | 52 | 47 | 53 | 48 | 44 | 48 | 44 | 40 | 37 |
| 5 | 72 | 60 | 51 | 45 | 68 | 57 | 49 | 44 | 52 | 46 | 41 | 47 | 42 | 38 | 43 | 39 | 35 | 33 |
| 6 | 66 | 54 | 45 | 39 | 63 | 52 | 44 | 38 | 47 | 41 | 36 | 43 | 38 | 33 | 39 | 35 | 31 | 29 |
| 7 | 62 | 49 | 40 | 35 | 58 | 47 | 39 | 34 | 43 | 36 | 32 | 39 | 34 | 30 | 36 | 31 | 28 | 25 |
| 8 | 57 | 44 | 36 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 36 | 30 | 27 | 33 | 28 | 25 | 23 |
| 9 | 53 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 25 | 33 | 28 | 24 | 30 | 26 | 22 | 20 |
| 10 | 50 | 37 | 30 | 25 | 48 | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 25 | 22 | 28 | 24 | 20 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12745 | 12745 | 12745 |
| 5° | 12783 | 12630 | 12721 |
| 10° | 12703 | 12527 | 12588 |
| 15° | 12549 | 12349 | 12380 |
| 20° | 12345 | 12128 | 12138 |
| 25° | 12113 | 11875 | 11843 |
| 30° | 11828 | 11580 | 11473 |
| 35° | 11532 | 11269 | 11121 |
| 40° | 11225 | 10918 | 10718 |
| 45° | 10904 | 10572 | 10369 |
| 50° | 10550 | 10262 | 9946 |
| 55° | 10166 | 9864 | 9543 |
| 60° | 9783 | 9415 | 9131 |
| 65° | 9352 | 8990 | 8627 |
| 70° | 8868 | 8419 | 8091 |
| 75° | 8125 | 7735 | 7536 |
| 80° | 7234 | 6936 | 6760 |
| 85° | 6326 | 6095 | 5974 |



TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.7 | 2.7 |
| 10°-20° | 418.9 | 7.6 |
| 20°-30° | 616.5 | 11.1 |
| 30°-40° | 716.7 | 12.9 |
| 40°-50° | 716.8 | 12.9 |
| 50°-60° | 627.0 | 11.3 |
| 60°-70° | 465.6 | 8.4 |
| 70°-80° | 264.5 | 4.8 |
| 80°-90° | 77.7 | 1.4 |
| 90°-100° | 16.4 | 0.3 |
| 100°-110° | 104.7 | 1.9 |
| 110°-120° | 200.2 | 3.6 |
| 120°-130° | 254.2 | 4.6 |
| 130°-140° | 272.0 | 4.9 |
| 140°-150° | 254.3 | 4.6 |
| 150°-160° | 205.1 | 3.7 |
| 160°-170° | 132.3 | 2.4 |
| 170°-180° | 45.6 | 0.8 |
| 0°-30° | 1184.1 | 21.4 |
| 0°-40° | 1900.8 | 34.3 |
| 0°-60° | 3244.6 | 58.6 |
| 0°-90° | 4052.5 | 73.2 |
| 90°-120° | 321.3 | 5.8 |
| 90°-150° | 1101.8 | 19.9 |
| 90°-180° | 1485.0 | 26.8 |
| 0°-180° | 5537.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1579 | 1579 | 1579 | 1579 | 1579 | |
| 5° | 1577 | 1572 | 1558 | 1571 | 1570 | 150 |
| 15° | 1502 | 1496 | 1478 | 1484 | 1481 | 423 |
| 25° | 1360 | 1350 | 1333 | 1334 | 1330 | 625 |
| 35° | 1170 | 1161 | 1144 | 1135 | 1128 | 731 |
| 45° | 955 | 946 | 926 | 913 | 908 | 736 |
| 55° | 722 | 718 | 701 | 686 | 678 | 647 |
| 65° | 490 | 483 | 471 | 458 | 452 | 485 |
| 75° | 260 | 254 | 248 | 243 | 242 | 277 |
| 85° | 68 | 68 | 66 | 66 | 64 | 75 |
| 90° | 1 | 5 | 8 | 10 | 11 | 5 |
| 95° | 20 | 8 | 8 | 10 | 10 | 25 |
| 105° | 108 | 110 | 112 | 114 | 102 | 113 |
| 115° | 202 | 203 | 202 | 203 | 203 | 199 |
| 125° | 284 | 285 | 284 | 285 | 286 | 253 |
| 135° | 352 | 352 | 353 | 354 | 354 | 271 |
| 145° | 406 | 407 | 407 | 407 | 408 | 253 |
| 155° | 445 | 445 | 444 | 445 | 444 | 205 |
| 165° | 469 | 468 | 468 | 470 | 467 | 133 |
| 175° | 480 | 478 | 478 | 481 | 477 | 46 |
| 180° | 480 | 480 | 480 | 480 | 480 | |



TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 |
| 2.5° | 1582.7 | 1582.1 | 1581.4 | 1580.7 | 1580.0 | 1578.4 | 1576.0 | 1573.5 | 1571.1 | 1568.6 | 1570.8 |
| 5° | 1577.4 | 1576.3 | 1575.2 | 1574.1 | 1573.0 | 1570.8 | 1567.7 | 1564.6 | 1561.5 | 1558.5 | 1561.5 |
| 7.5° | 1562.7 | 1561.6 | 1560.5 | 1559.3 | 1558.2 | 1556.0 | 1552.5 | 1549.1 | 1545.7 | 1542.2 | 1544.8 |
| 10° | 1549.6 | 1548.5 | 1547.4 | 1546.2 | 1545.1 | 1542.7 | 1539.1 | 1535.4 | 1531.8 | 1528.1 | 1530.3 |
| 12.5° | 1532.4 | 1531.3 | 1530.1 | 1529.0 | 1527.9 | 1525.3 | 1521.5 | 1517.7 | 1513.8 | 1509.9 | 1512.4 |
| 15° | 1501.5 | 1500.4 | 1499.3 | 1498.2 | 1497.0 | 1494.4 | 1490.1 | 1485.9 | 1481.7 | 1477.5 | 1479.2 |
| 17.5° | 1464.3 | 1462.9 | 1461.5 | 1460.2 | 1458.7 | 1456.0 | 1452.0 | 1448.0 | 1444.1 | 1440.0 | 1441.1 |
| 20° | 1437.0 | 1435.6 | 1434.2 | 1432.8 | 1431.4 | 1428.5 | 1424.3 | 1420.1 | 1415.9 | 1411.7 | 1412.5 |
| 22.5° | 1407.6 | 1405.8 | 1404.0 | 1402.1 | 1400.3 | 1397.2 | 1393.0 | 1388.8 | 1384.6 | 1380.3 | 1381.9 |
| 25° | 1359.9 | 1357.9 | 1355.9 | 1353.9 | 1351.9 | 1349.0 | 1345.0 | 1341.2 | 1337.2 | 1333.2 | 1333.6 |
| 27.5° | 1305.2 | 1303.1 | 1301.2 | 1299.1 | 1297.1 | 1294.3 | 1290.6 | 1287.0 | 1283.3 | 1279.6 | 1279.0 |
| 30° | 1268.8 | 1266.5 | 1264.2 | 1262.0 | 1259.8 | 1256.8 | 1253.2 | 1249.5 | 1245.9 | 1242.2 | 1241.1 |
| 32.5° | 1230.3 | 1228.3 | 1226.3 | 1224.2 | 1222.2 | 1219.2 | 1215.4 | 1211.5 | 1207.6 | 1203.7 | 1202.4 |
| 35° | 1170.1 | 1168.2 | 1166.2 | 1164.2 | 1162.2 | 1159.3 | 1155.3 | 1151.4 | 1147.5 | 1143.5 | 1141.5 |
| 37.5° | 1106.6 | 1104.8 | 1103.0 | 1101.2 | 1099.4 | 1096.4 | 1092.2 | 1088.0 | 1083.7 | 1079.5 | 1077.4 |
| 40° | 1065.1 | 1062.9 | 1060.6 | 1058.4 | 1056.1 | 1052.9 | 1048.7 | 1044.4 | 1040.2 | 1036.0 | 1033.2 |
| 42.5° | 1020.6 | 1019.2 | 1017.9 | 1016.5 | 1015.2 | 1012.2 | 1007.5 | 1002.8 | 998.1 | 993.5 | 990.2 |
| 45° | 955.1 | 953.1 | 951.1 | 949.1 | 947.2 | 944.0 | 939.4 | 934.9 | 930.4 | 926.0 | 922.9 |
| 47.5° | 886.5 | 885.1 | 883.8 | 882.4 | 881.1 | 878.4 | 874.2 | 870.1 | 865.9 | 861.7 | 858.3 |
| 50° | 840.0 | 838.8 | 837.7 | 836.5 | 835.4 | 832.9 | 828.9 | 825.1 | 821.1 | 817.1 | 813.3 |
| 52.5° | 794.4 | 793.1 | 791.7 | 790.4 | 789.0 | 786.2 | 782.1 | 777.9 | 773.8 | 769.6 | 766.1 |
| 55° | 722.3 | 721.4 | 720.6 | 719.8 | 718.9 | 716.5 | 712.6 | 708.7 | 704.7 | 700.8 | 697.4 |
| 57.5° | 653.5 | 652.5 | 651.6 | 650.6 | 649.7 | 647.2 | 643.3 | 639.4 | 635.6 | 631.7 | 628.5 |
| 60° | 605.9 | 604.5 | 603.1 | 601.7 | 600.3 | 597.8 | 594.1 | 590.5 | 586.8 | 583.1 | 580.6 |
| 62.5° | 559.4 | 558.2 | 557.0 | 555.8 | 554.7 | 552.2 | 548.3 | 544.4 | 540.5 | 536.6 | 534.3 |
| 65° | 489.6 | 488.1 | 486.7 | 485.3 | 483.9 | 481.8 | 479.0 | 476.2 | 473.4 | 470.6 | 467.8 |
| 67.5° | 419.2 | 418.0 | 416.6 | 415.3 | 414.1 | 412.0 | 409.3 | 406.6 | 403.9 | 401.2 | 398.5 |
| 70° | 375.7 | 373.8 | 371.8 | 369.8 | 367.8 | 365.8 | 363.5 | 361.2 | 358.9 | 356.7 | 354.5 |
| 72.5° | 329.2 | 327.2 | 325.2 | 323.2 | 321.3 | 319.4 | 317.6 | 315.8 | 314.0 | 312.2 | 310.4 |
| 75° | 260.5 | 259.2 | 257.8 | 256.4 | 254.9 | 253.6 | 252.2 | 250.7 | 249.4 | 248.0 | 246.8 |
| 77.5° | 195.0 | 194.4 | 193.8 | 193.2 | 192.6 | 191.6 | 190.4 | 189.2 | 188.0 | 186.7 | 186.4 |
| 80° | 155.6 | 154.7 | 153.9 | 153.0 | 152.3 | 151.5 | 151.0 | 150.4 | 149.8 | 149.2 | 148.7 |
| 82.5° | 117.2 | 116.8 | 116.4 | 116.0 | 115.6 | 115.3 | 115.2 | 115.1 | 114.9 | 114.9 | 114.5 |
| 85° | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.0 | 67.5 | 66.9 | 66.3 | 65.8 | 65.8 |
| 87.5° | 26.5 | 26.5 | 26.5 | 26.4 | 26.3 | 26.2 | 26.1 | 26.1 | 26.0 | 25.9 | 26.0 |
| 90° | 1.1 | 2.0 | 2.9 | 3.7 | 4.6 | 5.3 | 6.0 | 6.7 | 7.3 | 7.9 | 8.4 |
| 92.5° | 4.5 | 4.6 | 4.6 | 4.7 | 4.8 | 5.1 | 5.7 | 6.3 | 7.0 | 7.6 | 8.1 |
| 95° | 19.7 | 17.0 | 14.3 | 11.6 | 8.9 | 7.6 | 7.7 | 7.8 | 7.8 | 7.9 | 8.4 |
| 97.5° | 41.9 | 43.6 | 45.3 | 47.0 | 48.7 | 45.1 | 36.2 | 27.3 | 18.4 | 9.5 | 9.5 |
| 100° | 58.9 | 60.3 | 61.8 | 63.2 | 64.6 | 59.8 | 48.8 | 37.8 | 26.8 | 15.8 | 14.4 |
| 102.5° | 77.9 | 78.9 | 79.9 | 81.0 | 82.1 | 81.8 | 80.4 | 79.0 | 77.6 | 76.1 | 61.5 |
| 105° | 108.1 | 108.5 | 109.0 | 109.5 | 110.0 | 110.4 | 110.8 | 111.2 | 111.6 | 112.0 | 112.7 |
| 107.5° | 136.2 | 136.4 | 136.7 | 136.9 | 137.1 | 137.5 | 138.0 | 138.6 | 139.1 | 139.7 | 140.0 |
| 110° | 155.1 | 155.3 | 155.6 | 155.8 | 156.1 | 156.4 | 156.9 | 157.4 | 157.9 | 158.4 | 158.5 |



TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 173.5 | 173.9 | 174.4 | 174.8 | 175.2 | 175.5 | 175.8 | 175.9 | 176.2 | 176.4 | 176.4 |
| 115° | 201.8 | 202.0 | 202.2 | 202.5 | 202.7 | 202.8 | 202.7 | 202.6 | 202.6 | 202.5 | 202.6 |
| 117.5° | 227.3 | 227.6 | 227.9 | 228.2 | 228.5 | 228.8 | 228.9 | 229.1 | 229.3 | 229.5 | 229.4 |
| 120° | 244.5 | 244.8 | 245.1 | 245.4 | 245.7 | 245.9 | 245.8 | 245.7 | 245.7 | 245.6 | 245.7 |
| 122.5° | 260.5 | 260.8 | 260.9 | 261.2 | 261.3 | 261.5 | 261.6 | 261.7 | 261.8 | 262.0 | 262.1 |
| 125° | 283.6 | 283.9 | 284.2 | 284.6 | 284.9 | 284.9 | 284.8 | 284.6 | 284.5 | 284.3 | 284.6 |
| 127.5° | 305.5 | 305.5 | 305.6 | 305.7 | 305.8 | 306.0 | 306.3 | 306.7 | 307.1 | 307.4 | 307.4 |
| 130° | 319.5 | 319.6 | 319.7 | 319.8 | 319.9 | 320.0 | 320.3 | 320.5 | 320.8 | 321.0 | 321.1 |
| 132.5° | 332.5 | 332.6 | 332.7 | 332.9 | 333.0 | 333.3 | 333.6 | 333.8 | 334.1 | 334.5 | 334.5 |
| 135° | 351.8 | 351.7 | 351.6 | 351.6 | 351.5 | 351.6 | 352.0 | 352.3 | 352.6 | 352.9 | 353.1 |
| 137.5° | 369.0 | 369.0 | 369.1 | 369.1 | 369.2 | 369.3 | 369.6 | 370.0 | 370.3 | 370.7 | 370.9 |
| 140° | 380.2 | 380.3 | 380.5 | 380.6 | 380.8 | 381.0 | 381.1 | 381.4 | 381.5 | 381.7 | 381.9 |
| 142.5° | 390.2 | 390.5 | 390.9 | 391.1 | 391.4 | 391.6 | 391.7 | 391.8 | 391.9 | 392.0 | 392.1 |
| 145° | 405.7 | 405.9 | 406.2 | 406.4 | 406.6 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.9 |
| 147.5° | 418.0 | 418.4 | 418.8 | 419.3 | 419.8 | 419.9 | 419.9 | 419.8 | 419.7 | 419.6 | 419.7 |
| 150° | 426.9 | 427.2 | 427.5 | 427.9 | 428.2 | 428.3 | 428.2 | 428.1 | 428.0 | 427.9 | 427.9 |
| 152.5° | 434.4 | 434.6 | 434.8 | 435.1 | 435.4 | 435.4 | 435.3 | 435.1 | 435.0 | 434.8 | 435.0 |
| 155° | 444.8 | 444.9 | 445.0 | 445.0 | 445.1 | 445.0 | 444.8 | 444.6 | 444.3 | 444.1 | 444.4 |
| 157.5° | 453.7 | 453.6 | 453.5 | 453.5 | 453.4 | 453.3 | 453.0 | 452.7 | 452.5 | 452.3 | 452.7 |
| 160° | 458.8 | 458.6 | 458.4 | 458.1 | 457.9 | 457.7 | 457.6 | 457.6 | 457.5 | 457.4 | 457.9 |
| 162.5° | 463.4 | 463.1 | 462.8 | 462.5 | 462.2 | 462.0 | 461.9 | 461.8 | 461.8 | 461.7 | 462.2 |
| 165° | 469.2 | 468.8 | 468.4 | 468.0 | 467.6 | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 | 468.1 |
| 167.5° | 473.8 | 473.4 | 473.0 | 472.6 | 472.1 | 471.9 | 471.9 | 471.8 | 471.8 | 471.7 | 472.5 |
| 170° | 476.4 | 475.9 | 475.5 | 475.0 | 474.5 | 474.3 | 474.4 | 474.4 | 474.5 | 474.6 | 475.2 |
| 172.5° | 478.2 | 477.7 | 477.2 | 476.7 | 476.3 | 476.0 | 476.1 | 476.2 | 476.3 | 476.3 | 477.0 |
| 175° | 480.0 | 479.5 | 479.0 | 478.6 | 478.1 | 477.9 | 478.0 | 478.1 | 478.2 | 478.2 | 479.0 |
| 177.5° | 480.9 | 480.5 | 480.0 | 479.5 | 479.1 | 479.0 | 479.0 | 479.2 | 479.3 | 479.4 | 479.9 |
| 180° | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 |



TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 |
| 2.5° | 1573.0 | 1575.3 | 1577.6 | 1578.6 | 1578.3 | 1578.1 | 1577.9 | 1577.6 |
| 5° | 1564.6 | 1567.7 | 1570.8 | 1572.1 | 1571.5 | 1571.0 | 1570.4 | 1569.8 |
| 7.5° | 1547.2 | 1549.7 | 1552.1 | 1553.2 | 1552.9 | 1552.5 | 1552.2 | 1551.9 |
| 10° | 1532.6 | 1534.9 | 1537.1 | 1537.9 | 1537.4 | 1536.8 | 1536.2 | 1535.6 |
| 12.5° | 1514.8 | 1517.3 | 1519.8 | 1520.6 | 1519.8 | 1519.0 | 1518.2 | 1517.4 |
| 15° | 1480.8 | 1482.6 | 1484.2 | 1484.6 | 1483.8 | 1483.0 | 1482.1 | 1481.3 |
| 17.5° | 1442.2 | 1443.3 | 1444.3 | 1444.5 | 1444.0 | 1443.4 | 1442.9 | 1442.3 |
| 20° | 1413.4 | 1414.2 | 1415.1 | 1415.2 | 1414.7 | 1414.1 | 1413.6 | 1412.9 |
| 22.5° | 1383.4 | 1384.9 | 1386.4 | 1386.6 | 1385.7 | 1384.7 | 1383.6 | 1382.6 |
| 25° | 1333.9 | 1334.1 | 1334.4 | 1334.0 | 1332.8 | 1331.7 | 1330.6 | 1329.5 |
| 27.5° | 1278.3 | 1277.6 | 1276.9 | 1275.9 | 1274.5 | 1273.1 | 1271.7 | 1270.3 |
| 30° | 1239.9 | 1238.8 | 1237.7 | 1236.4 | 1235.0 | 1233.7 | 1232.2 | 1230.8 |
| 32.5° | 1201.0 | 1199.7 | 1198.3 | 1197.0 | 1195.6 | 1194.1 | 1192.8 | 1191.4 |
| 35° | 1139.6 | 1137.7 | 1135.7 | 1134.0 | 1132.6 | 1131.2 | 1129.7 | 1128.4 |
| 37.5° | 1075.2 | 1073.1 | 1071.0 | 1069.0 | 1067.1 | 1065.2 | 1063.4 | 1061.5 |
| 40° | 1030.4 | 1027.5 | 1024.8 | 1022.6 | 1021.3 | 1019.9 | 1018.4 | 1017.0 |
| 42.5° | 987.0 | 983.7 | 980.5 | 978.3 | 977.4 | 976.4 | 975.5 | 974.5 |
| 45° | 919.8 | 916.7 | 913.6 | 911.6 | 910.8 | 909.9 | 909.1 | 908.2 |
| 47.5° | 854.8 | 851.3 | 847.8 | 844.9 | 842.8 | 840.7 | 838.5 | 836.4 |
| 50° | 809.3 | 805.3 | 801.5 | 798.6 | 796.9 | 795.3 | 793.5 | 791.9 |
| 52.5° | 762.6 | 759.1 | 755.7 | 752.9 | 750.8 | 748.6 | 746.5 | 744.3 |
| 55° | 694.0 | 690.7 | 687.3 | 684.8 | 683.1 | 681.4 | 679.7 | 678.0 |
| 57.5° | 625.3 | 622.1 | 618.9 | 616.5 | 614.9 | 613.2 | 611.6 | 610.0 |
| 60° | 578.1 | 575.6 | 573.1 | 571.1 | 569.7 | 568.2 | 566.9 | 565.5 |
| 62.5° | 532.0 | 529.7 | 527.4 | 525.5 | 524.1 | 522.7 | 521.3 | 519.9 |
| 65° | 464.9 | 462.2 | 459.3 | 457.2 | 455.8 | 454.4 | 453.0 | 451.6 |
| 67.5° | 395.9 | 393.2 | 390.5 | 388.9 | 388.5 | 388.1 | 387.7 | 387.3 |
| 70° | 352.2 | 350.0 | 347.7 | 346.2 | 345.3 | 344.5 | 343.6 | 342.8 |
| 72.5° | 308.6 | 306.8 | 305.0 | 303.6 | 302.9 | 302.0 | 301.1 | 300.3 |
| 75° | 245.7 | 244.5 | 243.4 | 242.7 | 242.5 | 242.2 | 241.9 | 241.6 |
| 77.5° | 186.0 | 185.7 | 185.4 | 184.8 | 184.1 | 183.4 | 182.6 | 181.9 |
| 80° | 148.1 | 147.6 | 147.0 | 146.6 | 146.3 | 146.0 | 145.8 | 145.4 |
| 82.5° | 114.2 | 113.8 | 113.5 | 113.2 | 112.9 | 112.6 | 112.3 | 112.1 |
| 85° | 65.8 | 65.8 | 65.8 | 65.7 | 65.4 | 65.0 | 64.8 | 64.5 |
| 87.5° | 26.1 | 26.1 | 26.2 | 26.3 | 26.4 | 26.4 | 26.4 | 26.5 |
| 90° | 8.9 | 9.3 | 9.8 | 10.1 | 10.3 | 10.5 | 10.6 | 10.8 |
| 92.5° | 8.6 | 9.0 | 9.5 | 9.7 | 9.8 | 9.8 | 9.9 | 9.9 |
| 95° | 8.9 | 9.3 | 9.8 | 10.1 | 10.1 | 10.2 | 10.3 | 10.4 |
| 97.5° | 9.6 | 9.6 | 9.7 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 |
| 100° | 13.1 | 11.7 | 10.4 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 |
| 102.5° | 46.8 | 32.2 | 17.6 | 10.3 | 10.3 | 10.3 | 10.3 | 10.4 |
| 105° | 113.4 | 114.2 | 114.9 | 113.8 | 110.9 | 108.1 | 105.2 | 102.3 |
| 107.5° | 140.4 | 140.7 | 141.1 | 141.4 | 141.7 | 142.0 | 142.3 | 142.6 |
| 110° | 158.7 | 158.8 | 159.0 | 159.1 | 159.4 | 159.6 | 159.9 | 160.1 |



TEST NUMBER: P332839-927

CATALOG NUMBER: S124DIW-S1195D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 176.3 | 176.3 | 176.3 | 176.4 | 176.7 | 177.1 | 177.4 | 177.6 |
| 115° | 202.8 | 203.0 | 203.1 | 203.2 | 203.2 | 203.2 | 203.2 | 203.2 |
| 117.5° | 229.4 | 229.4 | 229.3 | 229.3 | 229.3 | 229.3 | 229.3 | 229.2 |
| 120° | 245.9 | 246.1 | 246.2 | 246.2 | 246.1 | 245.9 | 245.7 | 245.6 |
| 122.5° | 262.1 | 262.2 | 262.3 | 262.3 | 262.1 | 262.0 | 261.8 | 261.7 |
| 125° | 284.8 | 285.0 | 285.3 | 285.4 | 285.5 | 285.6 | 285.7 | 285.7 |
| 127.5° | 307.4 | 307.3 | 307.3 | 307.2 | 307.1 | 307.0 | 307.0 | 307.0 |
| 130° | 321.2 | 321.2 | 321.3 | 321.3 | 321.3 | 321.3 | 321.3 | 321.3 |
| 132.5° | 334.6 | 334.7 | 334.8 | 334.8 | 334.7 | 334.7 | 334.6 | 334.5 |
| 135° | 353.2 | 353.4 | 353.6 | 353.7 | 353.9 | 354.0 | 354.2 | 354.3 |
| 137.5° | 371.1 | 371.2 | 371.5 | 371.5 | 371.5 | 371.4 | 371.4 | 371.3 |
| 140° | 382.1 | 382.4 | 382.6 | 382.8 | 382.9 | 382.9 | 383.0 | 383.1 |
| 142.5° | 392.3 | 392.5 | 392.7 | 392.8 | 392.8 | 392.8 | 392.8 | 392.8 |
| 145° | 406.9 | 407.0 | 407.1 | 407.2 | 407.3 | 407.5 | 407.7 | 407.8 |
| 147.5° | 419.8 | 419.8 | 419.9 | 419.9 | 420.0 | 420.1 | 420.2 | 420.3 |
| 150° | 427.9 | 427.9 | 427.9 | 428.0 | 428.1 | 428.2 | 428.3 | 428.3 |
| 152.5° | 435.1 | 435.2 | 435.4 | 435.4 | 435.4 | 435.3 | 435.2 | 435.2 |
| 155° | 444.7 | 445.0 | 445.4 | 445.4 | 445.2 | 445.0 | 444.7 | 444.5 |
| 157.5° | 453.0 | 453.4 | 453.8 | 453.8 | 453.4 | 453.0 | 452.7 | 452.3 |
| 160° | 458.4 | 458.8 | 459.3 | 459.3 | 458.8 | 458.4 | 457.9 | 457.4 |
| 162.5° | 462.6 | 463.1 | 463.6 | 463.6 | 463.0 | 462.5 | 461.9 | 461.4 |
| 165° | 468.7 | 469.4 | 470.0 | 469.9 | 469.2 | 468.5 | 467.8 | 467.1 |
| 167.5° | 473.2 | 473.9 | 474.6 | 474.5 | 473.7 | 472.9 | 472.1 | 471.3 |
| 170° | 475.9 | 476.5 | 477.2 | 477.1 | 476.3 | 475.5 | 474.7 | 473.9 |
| 172.5° | 477.6 | 478.2 | 478.9 | 478.8 | 477.9 | 477.1 | 476.2 | 475.3 |
| 175° | 479.7 | 480.4 | 481.1 | 480.9 | 480.0 | 479.0 | 478.1 | 477.1 |
| 177.5° | 480.5 | 480.9 | 481.5 | 481.3 | 480.6 | 479.8 | 479.0 | 478.3 |
| 180° | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 |

(END OF REPORT)