

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: P332840-930

Luminaire Tested: **S124DIW-S1195D470U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332840-930
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: S124DIW-S1195D470U930-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5496.1 lumens
Efficiency: N/A
Efficacy: 104.9 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

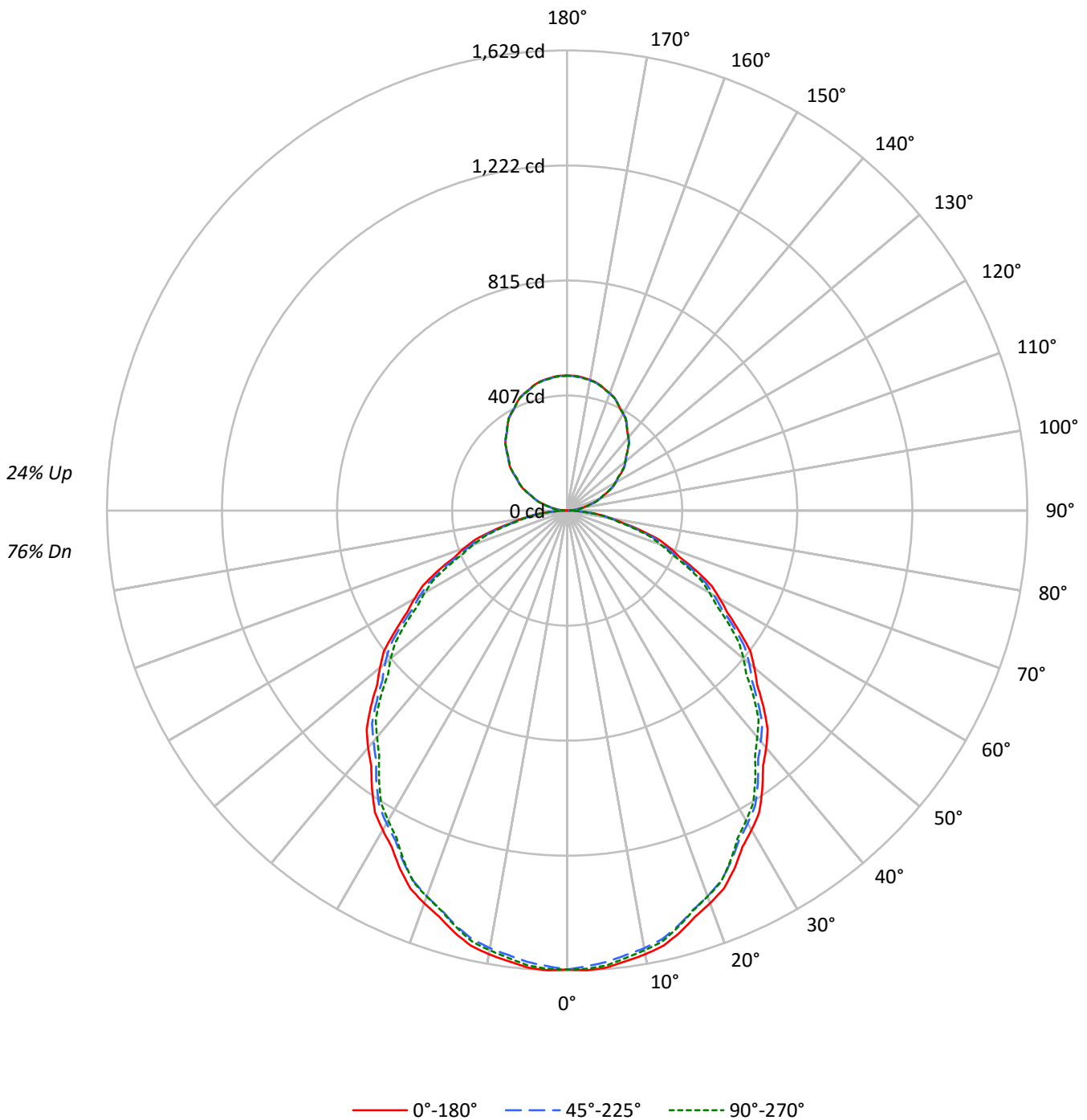
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 88 | 88 | 88 | 80 | 80 | 80 | 76 |
| 1 | 104 | 99 | 95 | 91 | 98 | 94 | 91 | 88 | 86 | 83 | 80 | 78 | 76 | 74 | 71 | 69 | 67 | 64 |
| 2 | 94 | 86 | 80 | 75 | 89 | 83 | 77 | 72 | 75 | 71 | 67 | 68 | 65 | 62 | 62 | 59 | 57 | 53 |
| 3 | 86 | 76 | 68 | 62 | 82 | 73 | 66 | 60 | 66 | 61 | 56 | 60 | 56 | 52 | 55 | 51 | 48 | 45 |
| 4 | 79 | 67 | 59 | 53 | 75 | 65 | 57 | 51 | 59 | 53 | 48 | 54 | 49 | 45 | 49 | 45 | 42 | 39 |
| 5 | 72 | 60 | 52 | 45 | 69 | 58 | 50 | 44 | 53 | 46 | 41 | 49 | 43 | 39 | 44 | 40 | 36 | 34 |
| 6 | 67 | 54 | 46 | 40 | 63 | 52 | 44 | 39 | 48 | 41 | 36 | 44 | 38 | 34 | 40 | 36 | 32 | 30 |
| 7 | 62 | 49 | 41 | 35 | 59 | 47 | 39 | 34 | 44 | 37 | 32 | 40 | 35 | 30 | 37 | 32 | 29 | 26 |
| 8 | 58 | 45 | 37 | 31 | 55 | 43 | 36 | 30 | 40 | 33 | 29 | 37 | 31 | 27 | 34 | 29 | 26 | 24 |
| 9 | 54 | 41 | 33 | 28 | 51 | 40 | 32 | 27 | 37 | 30 | 26 | 34 | 28 | 25 | 31 | 27 | 23 | 21 |
| 10 | 50 | 38 | 30 | 25 | 48 | 36 | 29 | 25 | 34 | 28 | 23 | 31 | 26 | 22 | 29 | 24 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13116 | 13116 | 13116 |
| 5° | 13156 | 12998 | 13092 |
| 10° | 13073 | 12892 | 12956 |
| 15° | 12915 | 12709 | 12741 |
| 20° | 12706 | 12482 | 12493 |
| 25° | 12466 | 12222 | 12188 |
| 30° | 12172 | 11918 | 11808 |
| 35° | 11869 | 11599 | 11445 |
| 40° | 11552 | 11236 | 11031 |
| 45° | 11222 | 10880 | 10671 |
| 50° | 10857 | 10562 | 10236 |
| 55° | 10463 | 10151 | 9821 |
| 60° | 10069 | 9689 | 9397 |
| 65° | 9626 | 9251 | 8879 |
| 70° | 9128 | 8665 | 8327 |
| 75° | 8366 | 7960 | 7757 |
| 80° | 7443 | 7141 | 6960 |
| 85° | 6512 | 6271 | 6150 |



TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.0 | 2.8 |
| 10°-20° | 431.1 | 7.8 |
| 20°-30° | 634.5 | 11.5 |
| 30°-40° | 737.7 | 13.4 |
| 40°-50° | 737.7 | 13.4 |
| 50°-60° | 645.3 | 11.7 |
| 60°-70° | 479.2 | 8.7 |
| 70°-80° | 272.3 | 5.0 |
| 80°-90° | 80.0 | 1.5 |
| 90°-100° | 31.5 | 0.6 |
| 100°-110° | 93.3 | 1.7 |
| 110°-120° | 158.4 | 2.9 |
| 120°-130° | 208.9 | 3.8 |
| 130°-140° | 234.6 | 4.3 |
| 140°-150° | 230.5 | 4.2 |
| 150°-160° | 193.9 | 3.5 |
| 160°-170° | 129.0 | 2.3 |
| 170°-180° | 45.2 | 0.8 |
| 0°-30° | 1218.6 | 22.2 |
| 0°-40° | 1956.3 | 35.6 |
| 0°-60° | 3339.3 | 60.8 |
| 0°-90° | 4170.8 | 75.9 |
| 90°-120° | 283.3 | 5.2 |
| 90°-150° | 957.2 | 17.4 |
| 90°-180° | 1325.0 | 24.1 |
| 0°-180° | 5496.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1625 | 1625 | 1625 | 1625 | 1625 | |
| 5° | 1623 | 1618 | 1604 | 1617 | 1616 | 154 |
| 15° | 1545 | 1539 | 1521 | 1528 | 1524 | 435 |
| 25° | 1400 | 1390 | 1372 | 1373 | 1368 | 644 |
| 35° | 1204 | 1195 | 1177 | 1168 | 1161 | 753 |
| 45° | 983 | 973 | 953 | 939 | 935 | 757 |
| 55° | 743 | 739 | 721 | 706 | 698 | 666 |
| 65° | 504 | 497 | 484 | 472 | 465 | 499 |
| 75° | 268 | 262 | 255 | 250 | 249 | 285 |
| 85° | 70 | 70 | 68 | 68 | 66 | 77 |
| 90° | 1 | 5 | 8 | 10 | 11 | 5 |
| 95° | 22 | 25 | 28 | 29 | 29 | 25 |
| 105° | 86 | 86 | 88 | 89 | 90 | 91 |
| 115° | 161 | 161 | 160 | 160 | 160 | 159 |
| 125° | 235 | 235 | 234 | 234 | 233 | 209 |
| 135° | 303 | 305 | 305 | 304 | 303 | 234 |
| 145° | 368 | 369 | 369 | 369 | 368 | 230 |
| 155° | 421 | 421 | 421 | 422 | 421 | 194 |
| 165° | 458 | 457 | 457 | 459 | 457 | 129 |
| 175° | 477 | 475 | 475 | 477 | 475 | 45 |
| 180° | 478 | 478 | 478 | 478 | 478 | |



TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 |
| 2.5° | 1628.9 | 1628.2 | 1627.5 | 1626.8 | 1626.1 | 1624.5 | 1622.0 | 1619.4 | 1616.9 | 1614.4 | 1616.7 |
| 5° | 1623.4 | 1622.3 | 1621.1 | 1620.0 | 1618.9 | 1616.7 | 1613.5 | 1610.3 | 1607.1 | 1603.9 | 1607.1 |
| 7.5° | 1608.3 | 1607.2 | 1606.1 | 1604.8 | 1603.7 | 1601.4 | 1597.8 | 1594.3 | 1590.8 | 1587.2 | 1589.8 |
| 10° | 1594.8 | 1593.7 | 1592.5 | 1591.3 | 1590.2 | 1587.7 | 1584.0 | 1580.2 | 1576.5 | 1572.7 | 1575.0 |
| 12.5° | 1577.1 | 1576.0 | 1574.8 | 1573.6 | 1572.5 | 1569.9 | 1565.9 | 1562.0 | 1558.0 | 1554.0 | 1556.5 |
| 15° | 1545.3 | 1544.2 | 1543.0 | 1541.9 | 1540.7 | 1538.0 | 1533.6 | 1529.3 | 1524.9 | 1520.6 | 1522.3 |
| 17.5° | 1507.1 | 1505.6 | 1504.1 | 1502.8 | 1501.3 | 1498.5 | 1494.4 | 1490.3 | 1486.2 | 1482.1 | 1483.2 |
| 20° | 1479.0 | 1477.5 | 1476.0 | 1474.6 | 1473.2 | 1470.2 | 1465.9 | 1461.6 | 1457.3 | 1452.9 | 1453.8 |
| 22.5° | 1448.7 | 1446.8 | 1445.0 | 1443.0 | 1441.1 | 1437.9 | 1433.6 | 1429.3 | 1425.0 | 1420.6 | 1422.2 |
| 25° | 1399.5 | 1397.5 | 1395.5 | 1393.4 | 1391.4 | 1388.4 | 1384.3 | 1380.3 | 1376.2 | 1372.1 | 1372.5 |
| 27.5° | 1343.3 | 1341.2 | 1339.1 | 1337.0 | 1335.0 | 1332.0 | 1328.3 | 1324.5 | 1320.8 | 1317.0 | 1316.3 |
| 30° | 1305.8 | 1303.5 | 1301.1 | 1298.9 | 1296.6 | 1293.5 | 1289.7 | 1286.0 | 1282.2 | 1278.5 | 1277.3 |
| 32.5° | 1266.2 | 1264.1 | 1262.1 | 1260.0 | 1257.8 | 1254.8 | 1250.8 | 1246.8 | 1242.8 | 1238.8 | 1237.5 |
| 35° | 1204.3 | 1202.2 | 1200.2 | 1198.2 | 1196.1 | 1193.1 | 1189.0 | 1185.0 | 1181.0 | 1176.9 | 1174.8 |
| 37.5° | 1138.9 | 1137.0 | 1135.2 | 1133.3 | 1131.5 | 1128.4 | 1124.1 | 1119.7 | 1115.3 | 1111.0 | 1108.8 |
| 40° | 1096.2 | 1093.9 | 1091.5 | 1089.2 | 1087.0 | 1083.6 | 1079.3 | 1074.9 | 1070.6 | 1066.2 | 1063.3 |
| 42.5° | 1050.4 | 1049.0 | 1047.6 | 1046.2 | 1044.8 | 1041.7 | 1036.9 | 1032.1 | 1027.3 | 1022.5 | 1019.1 |
| 45° | 982.9 | 980.9 | 978.8 | 976.8 | 974.9 | 971.5 | 966.9 | 962.2 | 957.6 | 953.0 | 949.8 |
| 47.5° | 912.3 | 910.9 | 909.5 | 908.2 | 906.8 | 904.0 | 899.7 | 895.4 | 891.1 | 886.9 | 883.3 |
| 50° | 864.5 | 863.3 | 862.1 | 861.0 | 859.8 | 857.2 | 853.1 | 849.1 | 845.1 | 841.0 | 837.0 |
| 52.5° | 817.6 | 816.2 | 814.8 | 813.4 | 812.0 | 809.2 | 804.9 | 800.6 | 796.4 | 792.1 | 788.5 |
| 55° | 743.4 | 742.5 | 741.7 | 740.8 | 739.9 | 737.4 | 733.4 | 729.4 | 725.3 | 721.2 | 717.8 |
| 57.5° | 672.5 | 671.6 | 670.6 | 669.6 | 668.6 | 666.1 | 662.1 | 658.1 | 654.1 | 650.1 | 646.9 |
| 60° | 623.6 | 622.2 | 620.7 | 619.3 | 617.8 | 615.2 | 611.5 | 607.7 | 603.9 | 600.1 | 597.5 |
| 62.5° | 575.7 | 574.5 | 573.2 | 572.0 | 570.9 | 568.3 | 564.3 | 560.3 | 556.3 | 552.3 | 549.9 |
| 65° | 503.9 | 502.4 | 500.9 | 499.5 | 498.1 | 495.9 | 493.0 | 490.1 | 487.2 | 484.3 | 481.4 |
| 67.5° | 431.5 | 430.2 | 428.8 | 427.5 | 426.2 | 424.0 | 421.3 | 418.5 | 415.7 | 412.9 | 410.2 |
| 70° | 386.7 | 384.7 | 382.6 | 380.6 | 378.5 | 376.4 | 374.1 | 371.8 | 369.4 | 367.1 | 364.8 |
| 72.5° | 338.8 | 336.7 | 334.7 | 332.6 | 330.7 | 328.7 | 326.9 | 325.0 | 323.2 | 321.3 | 319.4 |
| 75° | 268.2 | 266.8 | 265.3 | 263.8 | 262.4 | 261.0 | 259.5 | 258.0 | 256.7 | 255.2 | 254.0 |
| 77.5° | 200.7 | 200.1 | 199.5 | 198.9 | 198.2 | 197.2 | 196.0 | 194.7 | 193.5 | 192.2 | 191.8 |
| 80° | 160.1 | 159.2 | 158.4 | 157.5 | 156.7 | 156.0 | 155.4 | 154.7 | 154.2 | 153.6 | 153.0 |
| 82.5° | 120.6 | 120.2 | 119.8 | 119.4 | 119.0 | 118.7 | 118.5 | 118.5 | 118.3 | 118.2 | 117.9 |
| 85° | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.0 | 69.5 | 68.9 | 68.2 | 67.7 | 67.7 |
| 87.5° | 27.3 | 27.2 | 27.2 | 27.1 | 27.1 | 27.0 | 26.9 | 26.8 | 26.7 | 26.7 | 26.7 |
| 90° | 1.1 | 2.0 | 2.9 | 3.8 | 4.7 | 5.5 | 6.2 | 6.8 | 7.5 | 8.2 | 8.6 |
| 92.5° | 7.9 | 9.0 | 9.9 | 11.0 | 12.1 | 12.8 | 13.3 | 13.7 | 14.2 | 14.6 | 14.9 |
| 95° | 22.2 | 22.9 | 23.6 | 24.4 | 25.1 | 25.8 | 26.3 | 26.9 | 27.5 | 28.0 | 28.3 |
| 97.5° | 38.7 | 39.3 | 39.9 | 40.5 | 41.1 | 41.7 | 42.4 | 43.0 | 43.7 | 44.4 | 44.7 |
| 100° | 51.7 | 52.0 | 52.3 | 52.7 | 53.1 | 53.6 | 54.3 | 55.0 | 55.8 | 56.5 | 56.7 |
| 102.5° | 65.3 | 65.5 | 65.6 | 65.7 | 65.9 | 66.3 | 66.9 | 67.6 | 68.2 | 69.0 | 69.1 |
| 105° | 86.1 | 86.2 | 86.3 | 86.3 | 86.4 | 86.6 | 86.9 | 87.2 | 87.6 | 87.9 | 88.1 |
| 107.5° | 107.9 | 107.9 | 108.1 | 108.2 | 108.3 | 108.4 | 108.4 | 108.4 | 108.5 | 108.5 | 108.8 |
| 110° | 122.6 | 122.8 | 122.9 | 123.1 | 123.3 | 123.4 | 123.3 | 123.2 | 123.1 | 123.0 | 122.9 |



TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 138.0 | 138.0 | 138.1 | 138.1 | 138.2 | 138.1 | 137.9 | 137.8 | 137.6 | 137.5 | 137.5 |
| 115° | 161.1 | 161.1 | 161.1 | 161.1 | 161.1 | 161.0 | 160.9 | 160.7 | 160.5 | 160.4 | 160.3 |
| 117.5° | 182.8 | 182.9 | 183.0 | 183.0 | 183.0 | 183.0 | 183.0 | 182.8 | 182.7 | 182.5 | 182.3 |
| 120° | 197.3 | 197.6 | 198.0 | 198.3 | 198.6 | 198.6 | 198.4 | 198.1 | 197.9 | 197.6 | 197.2 |
| 122.5° | 212.4 | 212.5 | 212.6 | 212.7 | 212.9 | 212.9 | 212.8 | 212.6 | 212.5 | 212.5 | 212.1 |
| 125° | 234.6 | 234.6 | 234.6 | 234.6 | 234.6 | 234.6 | 234.5 | 234.4 | 234.3 | 234.2 | 234.1 |
| 127.5° | 254.8 | 255.0 | 255.3 | 255.5 | 255.8 | 255.8 | 255.7 | 255.5 | 255.4 | 255.3 | 255.1 |
| 130° | 269.0 | 269.2 | 269.5 | 269.7 | 269.9 | 270.0 | 270.0 | 270.0 | 270.0 | 270.0 | 269.9 |
| 132.5° | 283.4 | 283.6 | 283.8 | 284.0 | 284.1 | 284.2 | 284.1 | 284.1 | 284.1 | 284.0 | 283.8 |
| 135° | 302.6 | 303.0 | 303.5 | 304.0 | 304.5 | 304.8 | 304.8 | 304.8 | 304.8 | 304.8 | 304.6 |
| 137.5° | 323.4 | 323.7 | 323.8 | 324.1 | 324.3 | 324.5 | 324.7 | 324.8 | 324.9 | 325.1 | 324.8 |
| 140° | 337.3 | 337.5 | 337.6 | 337.8 | 337.9 | 338.0 | 338.0 | 338.0 | 338.0 | 338.0 | 337.9 |
| 142.5° | 350.0 | 350.2 | 350.3 | 350.5 | 350.7 | 350.7 | 350.7 | 350.6 | 350.5 | 350.4 | 350.4 |
| 145° | 367.6 | 367.9 | 368.3 | 368.6 | 368.9 | 369.1 | 369.2 | 369.2 | 369.3 | 369.4 | 369.3 |
| 147.5° | 385.1 | 385.4 | 385.8 | 386.2 | 386.6 | 386.8 | 386.7 | 386.6 | 386.6 | 386.5 | 386.5 |
| 150° | 395.7 | 396.0 | 396.3 | 396.6 | 397.0 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 |
| 152.5° | 405.7 | 405.9 | 406.1 | 406.3 | 406.5 | 406.7 | 406.7 | 406.8 | 406.8 | 406.9 | 407.1 |
| 155° | 421.2 | 421.2 | 421.2 | 421.2 | 421.2 | 421.1 | 421.0 | 420.9 | 420.9 | 420.8 | 421.1 |
| 157.5° | 434.1 | 434.0 | 433.9 | 433.7 | 433.6 | 433.5 | 433.5 | 433.5 | 433.4 | 433.4 | 433.7 |
| 160° | 441.9 | 441.8 | 441.7 | 441.6 | 441.6 | 441.5 | 441.4 | 441.3 | 441.2 | 441.2 | 441.4 |
| 162.5° | 449.0 | 448.7 | 448.5 | 448.3 | 448.1 | 447.9 | 447.8 | 447.8 | 447.7 | 447.6 | 448.1 |
| 165° | 458.4 | 458.2 | 458.0 | 457.7 | 457.5 | 457.3 | 457.1 | 457.0 | 456.8 | 456.6 | 457.1 |
| 167.5° | 465.8 | 465.5 | 465.1 | 464.8 | 464.4 | 464.2 | 464.2 | 464.3 | 464.3 | 464.3 | 464.8 |
| 170° | 469.9 | 469.5 | 469.1 | 468.7 | 468.3 | 468.1 | 468.2 | 468.3 | 468.4 | 468.5 | 469.0 |
| 172.5° | 472.9 | 472.5 | 472.2 | 471.9 | 471.5 | 471.3 | 471.3 | 471.4 | 471.4 | 471.4 | 472.0 |
| 175° | 477.0 | 476.5 | 476.1 | 475.7 | 475.3 | 475.1 | 475.0 | 474.9 | 474.8 | 474.7 | 475.3 |
| 177.5° | 478.3 | 477.9 | 477.6 | 477.3 | 477.0 | 476.8 | 476.8 | 476.8 | 476.8 | 476.8 | 477.3 |
| 180° | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 |



TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 |
| 2.5° | 1618.9 | 1621.3 | 1623.6 | 1624.6 | 1624.4 | 1624.2 | 1623.9 | 1623.7 |
| 5° | 1610.3 | 1613.5 | 1616.7 | 1618.0 | 1617.4 | 1616.8 | 1616.2 | 1615.6 |
| 7.5° | 1592.4 | 1594.9 | 1597.4 | 1598.6 | 1598.2 | 1597.8 | 1597.5 | 1597.2 |
| 10° | 1577.3 | 1579.6 | 1581.9 | 1582.8 | 1582.3 | 1581.7 | 1581.0 | 1580.5 |
| 12.5° | 1559.0 | 1561.5 | 1564.2 | 1565.0 | 1564.2 | 1563.3 | 1562.5 | 1561.7 |
| 15° | 1524.0 | 1525.8 | 1527.5 | 1528.0 | 1527.1 | 1526.2 | 1525.3 | 1524.5 |
| 17.5° | 1484.3 | 1485.4 | 1486.5 | 1486.7 | 1486.1 | 1485.6 | 1485.0 | 1484.4 |
| 20° | 1454.7 | 1455.5 | 1456.4 | 1456.5 | 1456.0 | 1455.4 | 1454.8 | 1454.2 |
| 22.5° | 1423.8 | 1425.3 | 1426.9 | 1427.1 | 1426.1 | 1425.1 | 1424.0 | 1422.9 |
| 25° | 1372.8 | 1373.0 | 1373.4 | 1372.9 | 1371.7 | 1370.6 | 1369.5 | 1368.3 |
| 27.5° | 1315.6 | 1314.9 | 1314.2 | 1313.1 | 1311.7 | 1310.3 | 1308.8 | 1307.3 |
| 30° | 1276.1 | 1275.0 | 1273.8 | 1272.5 | 1271.1 | 1269.7 | 1268.2 | 1266.7 |
| 32.5° | 1236.1 | 1234.7 | 1233.3 | 1231.9 | 1230.4 | 1229.0 | 1227.6 | 1226.1 |
| 35° | 1172.9 | 1170.9 | 1168.8 | 1167.1 | 1165.6 | 1164.2 | 1162.7 | 1161.3 |
| 37.5° | 1106.6 | 1104.4 | 1102.2 | 1100.2 | 1098.3 | 1096.3 | 1094.5 | 1092.5 |
| 40° | 1060.5 | 1057.5 | 1054.7 | 1052.5 | 1051.1 | 1049.6 | 1048.1 | 1046.7 |
| 42.5° | 1015.8 | 1012.4 | 1009.1 | 1006.9 | 1005.9 | 1004.9 | 1004.0 | 1003.0 |
| 45° | 946.6 | 943.5 | 940.3 | 938.2 | 937.3 | 936.5 | 935.6 | 934.7 |
| 47.5° | 879.7 | 876.1 | 872.5 | 869.6 | 867.4 | 865.2 | 863.0 | 860.8 |
| 50° | 832.9 | 828.8 | 824.8 | 821.9 | 820.2 | 818.5 | 816.7 | 815.0 |
| 52.5° | 784.9 | 781.3 | 777.7 | 774.9 | 772.7 | 770.5 | 768.3 | 766.1 |
| 55° | 714.3 | 710.9 | 707.4 | 704.7 | 703.0 | 701.3 | 699.5 | 697.8 |
| 57.5° | 643.6 | 640.3 | 637.0 | 634.5 | 632.8 | 631.1 | 629.4 | 627.8 |
| 60° | 594.9 | 592.4 | 589.8 | 587.7 | 586.3 | 584.8 | 583.4 | 582.0 |
| 62.5° | 547.5 | 545.1 | 542.7 | 540.9 | 539.4 | 537.9 | 536.5 | 535.1 |
| 65° | 478.5 | 475.6 | 472.7 | 470.6 | 469.1 | 467.7 | 466.2 | 464.8 |
| 67.5° | 407.4 | 404.6 | 401.9 | 400.2 | 399.8 | 399.4 | 399.0 | 398.6 |
| 70° | 362.5 | 360.2 | 357.8 | 356.3 | 355.4 | 354.6 | 353.7 | 352.8 |
| 72.5° | 317.6 | 315.8 | 313.9 | 312.5 | 311.7 | 310.8 | 309.9 | 309.1 |
| 75° | 252.8 | 251.7 | 250.5 | 249.8 | 249.6 | 249.2 | 248.9 | 248.7 |
| 77.5° | 191.4 | 191.1 | 190.8 | 190.2 | 189.5 | 188.7 | 187.9 | 187.2 |
| 80° | 152.5 | 151.9 | 151.3 | 150.9 | 150.6 | 150.3 | 150.0 | 149.7 |
| 82.5° | 117.5 | 117.2 | 116.8 | 116.5 | 116.2 | 115.9 | 115.6 | 115.4 |
| 85° | 67.7 | 67.7 | 67.7 | 67.6 | 67.3 | 66.9 | 66.7 | 66.4 |
| 87.5° | 26.8 | 26.9 | 27.0 | 27.1 | 27.1 | 27.1 | 27.1 | 27.2 |
| 90° | 9.1 | 9.6 | 10.1 | 10.4 | 10.6 | 10.8 | 10.9 | 11.1 |
| 92.5° | 15.2 | 15.5 | 15.8 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 |
| 95° | 28.5 | 28.8 | 29.0 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 |
| 97.5° | 45.0 | 45.3 | 45.6 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 100° | 56.8 | 57.0 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 |
| 102.5° | 69.4 | 69.6 | 69.9 | 70.0 | 70.0 | 70.1 | 70.2 | 70.3 |
| 105° | 88.5 | 88.7 | 88.9 | 89.2 | 89.4 | 89.7 | 89.9 | 90.2 |
| 107.5° | 109.0 | 109.3 | 109.5 | 109.6 | 109.6 | 109.6 | 109.5 | 109.5 |
| 110° | 122.7 | 122.5 | 122.4 | 122.4 | 122.6 | 122.9 | 123.1 | 123.4 |



TEST NUMBER: P332840-930

CATALOG NUMBER: S124DIW-S1195D470U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 137.5 | 137.4 | 137.4 | 137.4 | 137.5 | 137.5 | 137.5 | 137.5 |
| 115° | 160.2 | 160.1 | 160.0 | 160.0 | 159.9 | 159.8 | 159.7 | 159.6 |
| 117.5° | 182.1 | 181.7 | 181.5 | 181.2 | 181.1 | 180.9 | 180.8 | 180.6 |
| 120° | 196.8 | 196.4 | 196.0 | 195.9 | 196.1 | 196.2 | 196.4 | 196.6 |
| 122.5° | 211.9 | 211.6 | 211.3 | 211.0 | 210.8 | 210.4 | 210.1 | 209.9 |
| 125° | 233.9 | 233.7 | 233.6 | 233.4 | 233.3 | 233.1 | 232.9 | 232.8 |
| 127.5° | 254.9 | 254.8 | 254.6 | 254.5 | 254.4 | 254.2 | 254.1 | 254.0 |
| 130° | 269.7 | 269.5 | 269.4 | 269.1 | 268.8 | 268.5 | 268.2 | 267.8 |
| 132.5° | 283.6 | 283.5 | 283.3 | 283.2 | 283.0 | 282.9 | 282.7 | 282.7 |
| 135° | 304.4 | 304.3 | 304.1 | 303.9 | 303.7 | 303.5 | 303.2 | 303.0 |
| 137.5° | 324.6 | 324.4 | 324.2 | 324.1 | 324.2 | 324.2 | 324.2 | 324.3 |
| 140° | 337.9 | 337.8 | 337.7 | 337.6 | 337.5 | 337.5 | 337.4 | 337.3 |
| 142.5° | 350.4 | 350.4 | 350.4 | 350.3 | 350.3 | 350.3 | 350.3 | 350.3 |
| 145° | 369.2 | 369.2 | 369.1 | 368.9 | 368.7 | 368.4 | 368.2 | 367.9 |
| 147.5° | 386.4 | 386.3 | 386.3 | 386.2 | 386.1 | 386.0 | 386.0 | 385.9 |
| 150° | 397.1 | 397.1 | 397.1 | 397.1 | 397.1 | 397.0 | 396.9 | 396.8 |
| 152.5° | 407.3 | 407.5 | 407.7 | 407.6 | 407.5 | 407.2 | 407.1 | 406.8 |
| 155° | 421.4 | 421.8 | 422.1 | 422.1 | 421.8 | 421.4 | 421.1 | 420.8 |
| 157.5° | 433.9 | 434.1 | 434.4 | 434.4 | 434.1 | 433.8 | 433.6 | 433.3 |
| 160° | 441.6 | 441.9 | 442.1 | 442.1 | 441.6 | 441.2 | 440.8 | 440.3 |
| 162.5° | 448.5 | 449.0 | 449.4 | 449.4 | 449.0 | 448.6 | 448.2 | 447.8 |
| 165° | 457.6 | 458.1 | 458.6 | 458.7 | 458.4 | 458.0 | 457.7 | 457.4 |
| 167.5° | 465.3 | 465.8 | 466.3 | 466.3 | 465.8 | 465.3 | 464.7 | 464.2 |
| 170° | 469.4 | 469.9 | 470.4 | 470.3 | 469.8 | 469.2 | 468.6 | 468.1 |
| 172.5° | 472.5 | 473.1 | 473.6 | 473.6 | 473.0 | 472.5 | 471.9 | 471.3 |
| 175° | 475.9 | 476.5 | 477.0 | 477.0 | 476.5 | 475.9 | 475.3 | 474.7 |
| 177.5° | 477.8 | 478.2 | 478.7 | 478.6 | 478.1 | 477.6 | 477.0 | 476.5 |
| 180° | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 | 477.7 |

(END OF REPORT)