

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: P333927

Luminaire Tested: **S123DW-S775D840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DW-S775D840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 775 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

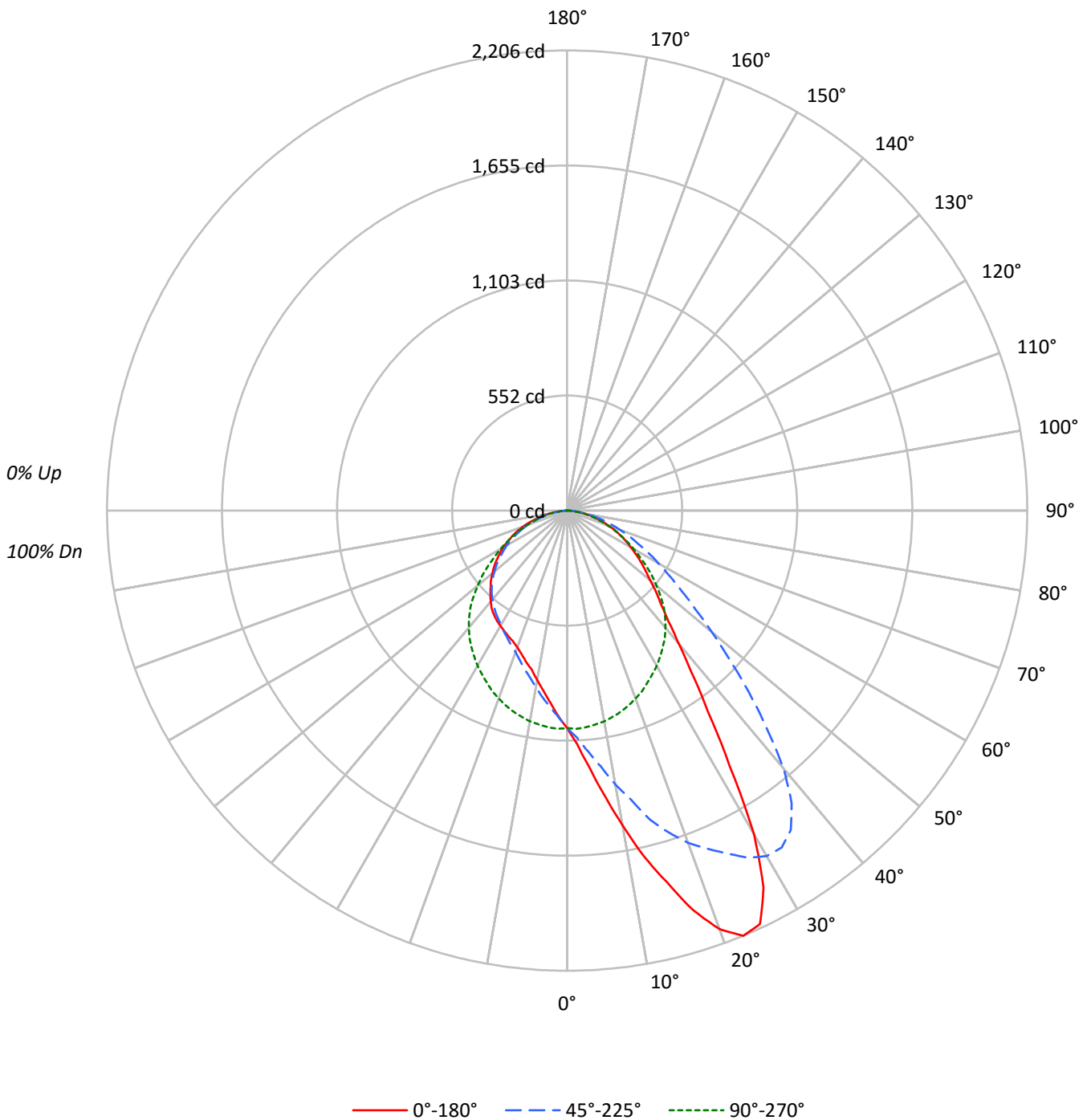
Lumens per Lamp: N/A
Luminaire Lumens: 3145.5 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 4' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
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: P333927
CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333927

CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 53 | | | | | 53 | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 47 | | | | | 47 | | | |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 48 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | 29 | | | | | 29 | | | |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 38 | 33 | 28 | 27 | | | | | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 5609 | 5609 | 5609 |
| 5° | 6688 | 5633 | 4992 |
| 10° | 8372 | 5604 | 4509 |
| 15° | 10268 | 5559 | 4197 |
| 20° | 12232 | 5489 | 3997 |
| 25° | 12989 | 5403 | 3952 |
| 30° | 11133 | 5341 | 3972 |
| 35° | 7743 | 5252 | 4014 |
| 40° | 5832 | 5147 | 4001 |
| 45° | 4842 | 4992 | 3950 |
| 50° | 4337 | 4675 | 3914 |
| 55° | 4055 | 4335 | 3866 |
| 60° | 3804 | 3978 | 3827 |
| 65° | 3575 | 3627 | 3703 |
| 70° | 3353 | 3226 | 3528 |
| 75° | 3003 | 2824 | 3234 |
| 80° | 2628 | 2315 | 2786 |
| 85° | 2056 | 1686 | 1871 |



TEST NUMBER: P333927

CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.5 | 3.3 |
| 10°-20° | 329.2 | 10.5 |
| 20°-30° | 553.9 | 17.6 |
| 30°-40° | 626.0 | 19.9 |
| 40°-50° | 560.7 | 17.8 |
| 50°-60° | 452.6 | 14.4 |
| 60°-70° | 315.4 | 10.0 |
| 70°-80° | 165.5 | 5.3 |
| 80°-90° | 39.7 | 1.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 985.6 | 31.3 |
| 0°-40° | 1611.6 | 51.2 |
| 0°-60° | 2624.9 | 83.5 |
| 0°-90° | 3145.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3145.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1042 | 1042 | 1042 | 1042 | 1042 | |
| 5° | 1238 | 1160 | 1043 | 944 | 924 | 127 |
| 15° | 1843 | 1534 | 998 | 787 | 753 | 532 |
| 25° | 2187 | 1813 | 910 | 676 | 666 | 967 |
| 35° | 1178 | 1869 | 799 | 597 | 611 | 761 |
| 45° | 636 | 1232 | 656 | 511 | 519 | 502 |
| 55° | 432 | 669 | 462 | 395 | 412 | 388 |
| 65° | 281 | 375 | 285 | 268 | 291 | 280 |
| 75° | 144 | 178 | 136 | 135 | 156 | 154 |
| 85° | 33 | 38 | 27 | 27 | 30 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333927

CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 |
| 2.5° | 1121.9 | 1120.9 | 1118.4 | 1120.4 | 1116.4 | 1110.8 | 1110.3 | 1105.3 | 1090.6 | 1089.6 | 1085.6 |
| 5° | 1238.0 | 1234.0 | 1233.5 | 1233.0 | 1225.9 | 1216.3 | 1198.2 | 1196.6 | 1172.4 | 1160.3 | 1145.6 |
| 7.5° | 1378.4 | 1376.9 | 1372.9 | 1368.3 | 1344.6 | 1333.0 | 1315.8 | 1293.6 | 1265.3 | 1238.0 | 1220.9 |
| 10° | 1531.9 | 1548.6 | 1527.9 | 1513.7 | 1500.6 | 1475.9 | 1447.1 | 1411.2 | 1375.4 | 1333.5 | 1301.7 |
| 12.5° | 1696.5 | 1702.6 | 1702.6 | 1689.4 | 1667.2 | 1626.3 | 1569.8 | 1529.4 | 1497.1 | 1420.3 | 1393.1 |
| 15° | 1842.9 | 1873.7 | 1854.0 | 1808.6 | 1809.6 | 1773.8 | 1707.1 | 1633.9 | 1595.0 | 1533.9 | 1450.6 |
| 17.5° | 2008.5 | 2014.1 | 2008.0 | 1965.6 | 1944.9 | 1892.9 | 1832.8 | 1764.7 | 1691.5 | 1617.2 | 1530.9 |
| 20° | 2135.8 | 2132.7 | 2115.1 | 2095.4 | 2052.0 | 2013.6 | 1946.4 | 1868.2 | 1767.2 | 1694.5 | 1598.0 |
| 22.5° | 2206.5 | 2200.9 | 2194.9 | 2179.2 | 2144.9 | 2103.0 | 2044.4 | 1957.0 | 1862.1 | 1755.1 | 1640.0 |
| 25° | 2187.3 | 2193.8 | 2194.9 | 2190.3 | 2177.7 | 2152.9 | 2105.5 | 2037.3 | 1941.4 | 1812.6 | 1696.5 |
| 27.5° | 2038.8 | 2055.5 | 2076.7 | 2090.8 | 2113.6 | 2128.7 | 2113.6 | 2070.6 | 1991.9 | 1876.8 | 1733.9 |
| 30° | 1791.4 | 1771.2 | 1821.2 | 1884.3 | 1927.2 | 2003.0 | 2045.4 | 2047.9 | 2008.0 | 1912.6 | 1774.3 |
| 32.5° | 1448.1 | 1480.9 | 1496.1 | 1577.3 | 1683.9 | 1771.2 | 1866.2 | 1950.5 | 1970.2 | 1914.6 | 1798.0 |
| 35° | 1178.5 | 1206.2 | 1246.6 | 1287.0 | 1388.0 | 1474.8 | 1623.3 | 1752.5 | 1855.6 | 1869.2 | 1795.0 |
| 37.5° | 979.5 | 995.7 | 1020.4 | 1063.3 | 1132.5 | 1240.1 | 1357.7 | 1525.8 | 1667.7 | 1767.7 | 1757.6 |
| 40° | 830.1 | 834.1 | 862.9 | 893.7 | 947.2 | 1032.0 | 1135.5 | 1280.0 | 1458.7 | 1613.7 | 1678.3 |
| 42.5° | 718.0 | 728.1 | 736.2 | 765.4 | 805.3 | 863.9 | 958.3 | 1071.4 | 1231.5 | 1415.8 | 1557.7 |
| 45° | 636.2 | 646.3 | 653.9 | 673.6 | 703.8 | 746.8 | 813.9 | 923.0 | 1047.7 | 1232.0 | 1402.1 |
| 47.5° | 579.6 | 578.6 | 585.2 | 600.8 | 622.6 | 656.9 | 706.4 | 779.1 | 898.7 | 1052.7 | 1231.0 |
| 50° | 518.0 | 526.1 | 528.1 | 539.8 | 555.9 | 579.6 | 619.0 | 678.6 | 772.5 | 903.8 | 1064.4 |
| 52.5° | 474.6 | 475.6 | 482.2 | 489.8 | 503.4 | 520.6 | 553.4 | 596.8 | 665.5 | 772.5 | 916.9 |
| 55° | 432.2 | 432.2 | 437.8 | 444.3 | 452.4 | 469.1 | 491.8 | 526.1 | 582.2 | 669.0 | 791.2 |
| 57.5° | 392.8 | 394.8 | 399.9 | 401.4 | 408.5 | 420.1 | 439.8 | 467.0 | 510.0 | 580.1 | 681.1 |
| 60° | 353.4 | 358.0 | 357.5 | 361.5 | 367.6 | 376.2 | 392.3 | 413.5 | 450.9 | 504.4 | 586.2 |
| 62.5° | 319.1 | 317.6 | 317.6 | 322.6 | 328.7 | 336.8 | 345.9 | 363.5 | 393.8 | 439.8 | 506.4 |
| 65° | 280.7 | 279.7 | 283.3 | 286.3 | 288.3 | 294.4 | 302.4 | 318.6 | 339.8 | 375.1 | 429.2 |
| 67.5° | 247.4 | 244.4 | 246.9 | 247.9 | 251.4 | 256.5 | 264.6 | 274.7 | 291.8 | 321.6 | 365.1 |
| 70° | 213.1 | 210.5 | 210.0 | 211.1 | 214.1 | 217.6 | 223.2 | 232.8 | 248.4 | 271.1 | 300.9 |
| 72.5° | 177.7 | 176.2 | 176.2 | 178.7 | 179.7 | 181.8 | 185.3 | 193.9 | 205.5 | 221.2 | 248.4 |
| 75° | 144.4 | 144.4 | 144.4 | 144.9 | 146.4 | 148.4 | 151.5 | 156.0 | 165.6 | 177.7 | 196.4 |
| 77.5° | 114.1 | 114.6 | 113.6 | 113.1 | 115.6 | 116.6 | 117.1 | 122.2 | 127.7 | 136.8 | 151.5 |
| 80° | 84.8 | 82.3 | 83.3 | 84.8 | 85.8 | 86.3 | 87.9 | 88.9 | 93.4 | 98.0 | 107.5 |
| 82.5° | 57.6 | 55.5 | 55.5 | 58.1 | 58.1 | 58.6 | 60.1 | 61.6 | 62.6 | 66.6 | 70.7 |
| 85° | 33.3 | 33.3 | 33.8 | 33.8 | 34.3 | 33.8 | 35.3 | 35.8 | 35.8 | 38.4 | 41.4 |
| 87.5° | 15.1 | 14.1 | 14.6 | 15.1 | 14.6 | 15.1 | 15.7 | 16.2 | 16.7 | 17.2 | 17.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333927

CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 |
| 2.5° | 1082.5 | 1078.5 | 1074.5 | 1067.4 | 1061.3 | 1052.7 | 1050.2 | 1047.2 | 1038.1 | 1030.0 | 1024.0 |
| 5° | 1140.1 | 1128.0 | 1110.3 | 1094.1 | 1081.0 | 1063.3 | 1053.2 | 1042.6 | 1027.5 | 1013.9 | 1002.8 |
| 7.5° | 1195.1 | 1173.9 | 1149.2 | 1122.4 | 1096.7 | 1071.9 | 1052.2 | 1034.6 | 1014.9 | 995.7 | 981.0 |
| 10° | 1263.3 | 1229.0 | 1190.6 | 1149.2 | 1113.8 | 1079.5 | 1050.7 | 1025.5 | 998.2 | 974.5 | 954.8 |
| 12.5° | 1341.0 | 1286.0 | 1229.5 | 1176.9 | 1133.5 | 1082.5 | 1046.2 | 1012.3 | 980.5 | 950.7 | 928.0 |
| 15° | 1399.1 | 1334.5 | 1271.9 | 1202.7 | 1139.1 | 1079.5 | 1038.1 | 997.7 | 961.9 | 932.6 | 904.3 |
| 17.5° | 1456.7 | 1386.0 | 1306.2 | 1222.9 | 1148.2 | 1079.5 | 1023.0 | 979.5 | 935.6 | 900.3 | 873.0 |
| 20° | 1504.1 | 1420.8 | 1327.4 | 1240.1 | 1155.2 | 1076.5 | 1012.9 | 958.3 | 909.9 | 872.0 | 840.2 |
| 22.5° | 1545.0 | 1444.0 | 1346.6 | 1251.7 | 1154.7 | 1068.4 | 994.2 | 937.6 | 884.1 | 847.2 | 812.9 |
| 25° | 1570.8 | 1454.1 | 1357.2 | 1247.6 | 1142.1 | 1054.3 | 973.5 | 909.9 | 857.3 | 813.9 | 779.1 |
| 27.5° | 1595.0 | 1452.6 | 1343.1 | 1224.9 | 1127.0 | 1039.6 | 952.8 | 884.6 | 829.6 | 782.6 | 746.8 |
| 30° | 1619.3 | 1455.2 | 1318.3 | 1201.7 | 1102.7 | 1011.8 | 928.0 | 859.4 | 800.8 | 752.8 | 719.5 |
| 32.5° | 1634.4 | 1453.6 | 1295.6 | 1169.4 | 1064.4 | 986.6 | 901.3 | 829.6 | 769.0 | 722.0 | 690.2 |
| 35° | 1638.4 | 1445.1 | 1268.8 | 1122.4 | 1022.4 | 944.2 | 873.0 | 799.3 | 736.2 | 692.2 | 655.9 |
| 37.5° | 1629.9 | 1429.4 | 1239.6 | 1080.0 | 972.0 | 894.2 | 832.1 | 769.0 | 708.4 | 659.4 | 627.6 |
| 40° | 1602.1 | 1414.3 | 1204.2 | 1034.6 | 919.4 | 845.2 | 794.2 | 732.6 | 673.0 | 627.1 | 597.8 |
| 42.5° | 1549.1 | 1383.5 | 1165.3 | 984.1 | 864.9 | 790.7 | 744.7 | 695.8 | 640.2 | 597.8 | 568.5 |
| 45° | 1456.2 | 1336.0 | 1126.5 | 933.6 | 811.4 | 734.6 | 693.2 | 655.9 | 604.9 | 563.0 | 537.7 |
| 47.5° | 1337.5 | 1271.9 | 1070.4 | 880.6 | 755.3 | 681.1 | 637.7 | 606.9 | 567.0 | 533.2 | 508.4 |
| 50° | 1212.8 | 1189.1 | 1013.4 | 826.0 | 699.3 | 627.1 | 585.7 | 558.4 | 531.7 | 497.8 | 475.6 |
| 52.5° | 1068.9 | 1093.1 | 946.7 | 769.5 | 642.2 | 571.6 | 533.2 | 513.0 | 489.3 | 463.0 | 444.3 |
| 55° | 935.6 | 988.6 | 867.9 | 704.9 | 585.7 | 518.0 | 481.2 | 462.0 | 447.9 | 427.2 | 410.5 |
| 57.5° | 806.3 | 874.0 | 786.1 | 639.7 | 530.2 | 471.1 | 434.7 | 413.0 | 403.9 | 392.3 | 378.7 |
| 60° | 693.7 | 760.4 | 697.3 | 574.1 | 474.1 | 418.6 | 387.3 | 369.6 | 360.5 | 352.9 | 341.8 |
| 62.5° | 593.3 | 660.9 | 610.4 | 507.4 | 419.1 | 368.6 | 342.3 | 325.2 | 318.6 | 315.6 | 306.5 |
| 65° | 502.9 | 561.0 | 525.6 | 437.8 | 367.1 | 321.6 | 296.9 | 284.8 | 278.2 | 276.7 | 270.6 |
| 67.5° | 424.6 | 469.6 | 442.3 | 376.2 | 318.6 | 277.2 | 255.5 | 244.9 | 239.3 | 238.8 | 233.8 |
| 70° | 347.9 | 389.3 | 369.6 | 311.0 | 263.1 | 232.3 | 214.1 | 205.0 | 202.0 | 201.5 | 198.9 |
| 72.5° | 288.3 | 314.1 | 299.4 | 253.0 | 218.6 | 191.4 | 179.2 | 169.7 | 166.1 | 167.1 | 165.6 |
| 75° | 222.2 | 243.9 | 234.8 | 201.0 | 171.2 | 153.0 | 141.9 | 135.8 | 132.8 | 134.3 | 132.3 |
| 77.5° | 169.7 | 184.8 | 175.7 | 150.0 | 130.8 | 117.1 | 108.6 | 104.5 | 101.5 | 101.5 | 100.5 |
| 80° | 120.7 | 128.8 | 124.2 | 110.1 | 94.9 | 83.8 | 77.3 | 74.7 | 73.2 | 72.7 | 72.2 |
| 82.5° | 77.3 | 83.8 | 78.3 | 69.7 | 60.6 | 55.0 | 52.0 | 48.5 | 47.5 | 48.0 | 47.5 |
| 85° | 43.4 | 45.9 | 43.9 | 37.9 | 33.8 | 30.8 | 28.8 | 27.3 | 26.3 | 26.8 | 25.8 |
| 87.5° | 18.7 | 19.2 | 17.7 | 15.7 | 14.6 | 13.1 | 13.1 | 12.1 | 11.1 | 11.1 | 10.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333927

CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 | 1042.1 |
| 2.5° | 1020.4 | 1016.9 | 1011.8 | 1004.3 | 998.2 | 988.6 | 988.6 | 990.1 | 990.1 | 989.6 | 988.6 |
| 5° | 993.7 | 986.1 | 977.0 | 966.4 | 955.3 | 944.2 | 942.2 | 938.1 | 935.1 | 933.1 | 930.6 |
| 7.5° | 966.4 | 953.8 | 941.2 | 926.5 | 913.9 | 903.3 | 895.7 | 889.1 | 885.1 | 880.6 | 877.0 |
| 10° | 938.6 | 922.0 | 906.3 | 890.7 | 873.5 | 859.9 | 851.3 | 845.2 | 840.7 | 836.6 | 834.6 |
| 12.5° | 905.8 | 886.1 | 868.4 | 853.8 | 834.6 | 820.5 | 812.4 | 810.4 | 804.8 | 795.2 | 790.2 |
| 15° | 874.0 | 856.3 | 835.6 | 812.9 | 803.8 | 786.7 | 777.1 | 772.5 | 769.5 | 762.9 | 760.9 |
| 17.5° | 847.7 | 824.0 | 800.3 | 783.6 | 767.0 | 753.3 | 747.8 | 741.7 | 737.7 | 731.6 | 730.1 |
| 20° | 814.9 | 794.2 | 773.0 | 754.8 | 737.2 | 722.0 | 717.5 | 713.4 | 709.4 | 706.9 | 704.9 |
| 22.5° | 781.6 | 760.9 | 744.2 | 727.6 | 708.4 | 699.8 | 694.8 | 690.2 | 687.7 | 686.2 | 684.2 |
| 25° | 750.8 | 732.6 | 712.9 | 697.8 | 682.6 | 676.1 | 673.0 | 670.5 | 668.5 | 666.0 | 665.5 |
| 27.5° | 723.5 | 703.3 | 686.7 | 672.0 | 660.9 | 655.4 | 651.8 | 650.3 | 650.3 | 651.3 | 651.8 |
| 30° | 692.2 | 674.1 | 660.9 | 648.8 | 638.7 | 633.7 | 633.2 | 633.2 | 635.2 | 635.7 | 636.7 |
| 32.5° | 663.5 | 649.3 | 636.2 | 624.6 | 617.5 | 614.5 | 617.0 | 617.0 | 618.5 | 620.0 | 622.1 |
| 35° | 635.7 | 622.6 | 612.5 | 602.4 | 595.8 | 597.3 | 598.3 | 599.3 | 601.9 | 604.9 | 606.9 |
| 37.5° | 609.4 | 597.3 | 586.7 | 578.6 | 574.6 | 577.6 | 580.1 | 582.2 | 585.2 | 587.7 | 589.7 |
| 40° | 580.6 | 572.1 | 562.0 | 554.9 | 555.9 | 557.4 | 559.4 | 562.0 | 564.5 | 566.0 | 568.0 |
| 42.5° | 553.9 | 544.8 | 537.7 | 532.2 | 533.7 | 535.7 | 536.7 | 537.7 | 540.8 | 543.8 | 544.8 |
| 45° | 526.6 | 519.6 | 512.5 | 509.0 | 510.0 | 511.0 | 512.0 | 513.5 | 516.0 | 518.0 | 518.5 |
| 47.5° | 495.8 | 490.8 | 486.2 | 482.2 | 484.2 | 483.7 | 485.2 | 488.2 | 489.3 | 490.3 | 493.3 |
| 50° | 466.5 | 462.0 | 456.4 | 455.4 | 455.4 | 455.4 | 455.9 | 460.0 | 460.0 | 462.0 | 464.0 |
| 52.5° | 434.2 | 431.7 | 428.7 | 426.7 | 425.6 | 425.6 | 428.2 | 429.7 | 430.7 | 433.7 | 435.7 |
| 55° | 402.4 | 399.4 | 396.4 | 394.8 | 393.8 | 394.8 | 398.9 | 399.9 | 402.4 | 403.9 | 405.4 |
| 57.5° | 369.1 | 367.1 | 364.5 | 363.5 | 363.5 | 364.0 | 367.1 | 369.6 | 370.1 | 375.1 | 377.2 |
| 60° | 336.3 | 332.7 | 330.7 | 330.7 | 329.7 | 334.3 | 333.2 | 338.3 | 339.3 | 342.3 | 345.9 |
| 62.5° | 302.4 | 297.4 | 296.9 | 296.9 | 298.9 | 299.4 | 301.4 | 302.9 | 306.0 | 310.0 | 312.5 |
| 65° | 265.6 | 263.1 | 266.6 | 266.1 | 265.1 | 268.1 | 268.1 | 270.6 | 273.7 | 277.2 | 282.8 |
| 67.5° | 231.2 | 229.2 | 230.2 | 229.7 | 231.2 | 233.3 | 234.8 | 236.8 | 240.3 | 244.4 | 247.9 |
| 70° | 196.4 | 197.9 | 195.4 | 197.4 | 198.9 | 199.4 | 200.5 | 203.5 | 207.5 | 210.0 | 214.1 |
| 72.5° | 162.6 | 162.1 | 163.1 | 163.6 | 165.1 | 166.1 | 167.1 | 170.7 | 175.2 | 177.2 | 180.3 |
| 75° | 130.3 | 129.8 | 131.3 | 131.3 | 133.8 | 134.8 | 135.8 | 137.3 | 141.4 | 144.4 | 146.9 |
| 77.5° | 101.0 | 101.5 | 101.0 | 103.0 | 102.0 | 102.5 | 105.5 | 107.0 | 107.5 | 114.1 | 115.1 |
| 80° | 71.7 | 72.7 | 73.2 | 73.7 | 74.2 | 73.2 | 76.7 | 78.3 | 78.3 | 81.8 | 84.3 |
| 82.5° | 46.5 | 47.0 | 48.5 | 49.0 | 49.0 | 50.5 | 50.0 | 51.0 | 52.5 | 53.5 | 57.1 |
| 85° | 25.8 | 27.3 | 27.8 | 27.3 | 27.8 | 26.8 | 28.3 | 28.8 | 29.3 | 29.3 | 29.3 |
| 87.5° | 10.1 | 10.6 | 10.1 | 10.6 | 10.1 | 10.6 | 10.6 | 9.6 | 9.6 | 11.1 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333927

CATALOG NUMBER: S123DW-S775D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1042.1 | 1042.1 | 1042.1 | 1042.1 |
| 2.5° | 985.1 | 984.6 | 988.1 | 985.6 |
| 5° | 927.5 | 929.0 | 924.0 | 924.0 |
| 7.5° | 875.5 | 873.5 | 874.0 | 870.5 |
| 10° | 828.6 | 825.5 | 824.5 | 825.0 |
| 12.5° | 789.7 | 789.7 | 781.6 | 781.6 |
| 15° | 760.9 | 751.3 | 750.3 | 753.3 |
| 17.5° | 729.1 | 723.5 | 724.0 | 723.0 |
| 20° | 704.9 | 701.8 | 701.3 | 697.8 |
| 22.5° | 682.6 | 682.1 | 682.6 | 678.6 |
| 25° | 665.0 | 667.5 | 665.5 | 665.5 |
| 27.5° | 652.9 | 652.9 | 651.3 | 651.3 |
| 30° | 638.7 | 638.2 | 639.2 | 639.2 |
| 32.5° | 624.6 | 625.6 | 625.6 | 626.1 |
| 35° | 609.9 | 610.4 | 612.0 | 610.9 |
| 37.5° | 590.7 | 593.3 | 592.8 | 593.8 |
| 40° | 568.5 | 570.0 | 569.5 | 569.5 |
| 42.5° | 545.8 | 546.8 | 545.3 | 544.3 |
| 45° | 520.6 | 519.6 | 521.1 | 519.0 |
| 47.5° | 492.8 | 493.3 | 493.8 | 495.8 |
| 50° | 465.0 | 468.1 | 468.1 | 467.5 |
| 52.5° | 437.8 | 438.8 | 441.3 | 441.3 |
| 55° | 409.5 | 410.5 | 411.5 | 412.0 |
| 57.5° | 380.7 | 380.2 | 382.2 | 382.7 |
| 60° | 349.9 | 349.9 | 353.9 | 355.5 |
| 62.5° | 317.1 | 319.1 | 323.1 | 320.1 |
| 65° | 285.3 | 289.3 | 288.8 | 290.8 |
| 67.5° | 252.0 | 254.5 | 258.5 | 258.5 |
| 70° | 218.1 | 220.6 | 222.7 | 224.2 |
| 72.5° | 185.3 | 186.3 | 191.9 | 188.8 |
| 75° | 150.5 | 154.0 | 157.0 | 155.5 |
| 77.5° | 117.1 | 121.7 | 122.7 | 121.2 |
| 80° | 87.9 | 87.3 | 90.4 | 89.9 |
| 82.5° | 58.6 | 58.1 | 59.1 | 59.6 |
| 85° | 31.3 | 32.8 | 30.8 | 30.3 |
| 87.5° | 9.1 | 9.1 | 8.6 | 8.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)