

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: P242291

Luminaire Tested: **S122DR-S675D830-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S675D830-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2705.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

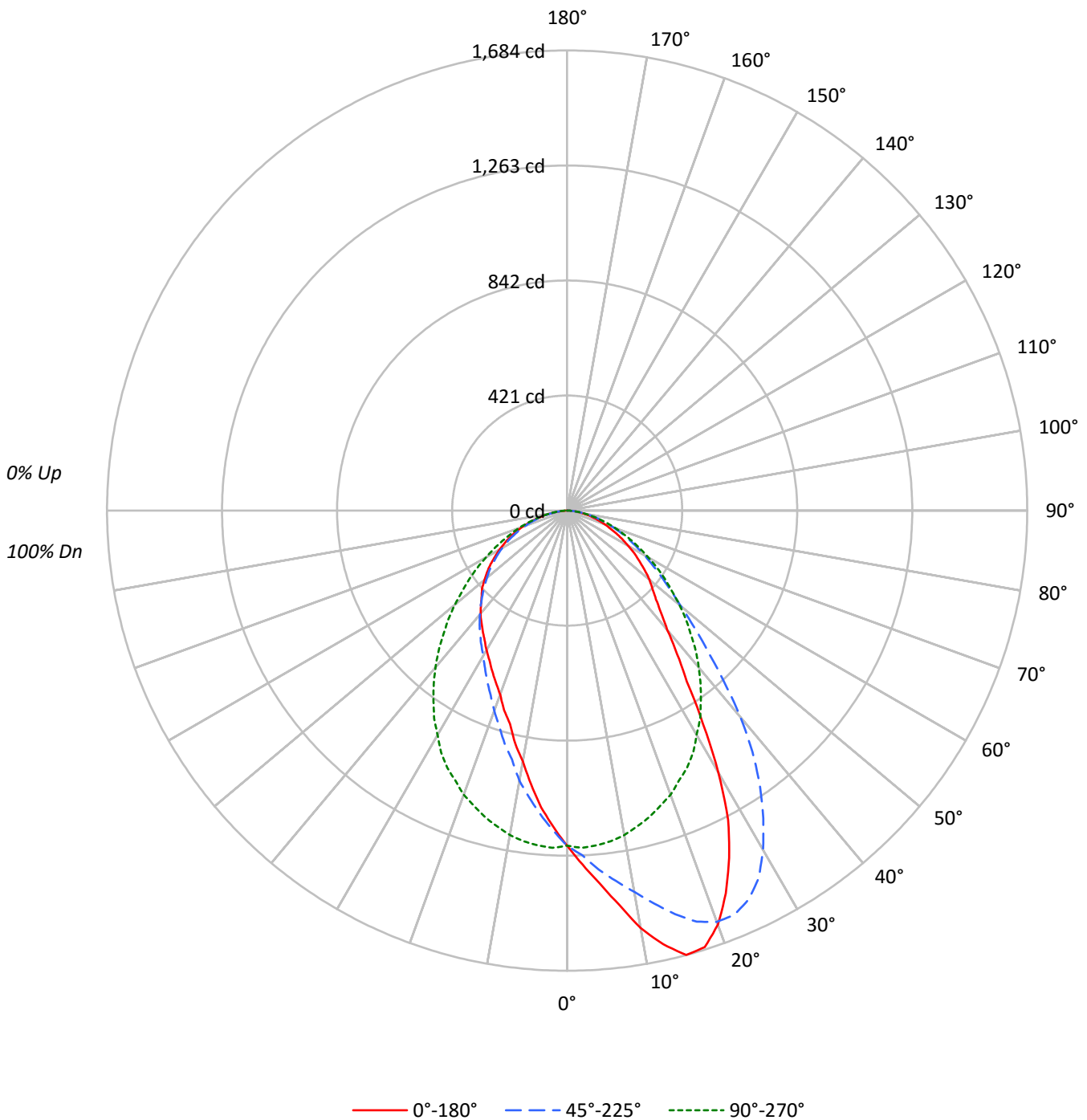
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 |
| 4 | 86 | 75 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 58 | 66 | 62 | 58 | 55 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 51 | 46 | 55 | 50 | 45 | 43 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 51 | 43 | 38 | 63 | 51 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 23360 | 23360 | 23360 |
| 5° | 26189 | 23512 | 20836 |
| 10° | 30010 | 23318 | 18032 |
| 15° | 33200 | 22893 | 15930 |
| 20° | 32694 | 22433 | 14522 |
| 25° | 29480 | 21822 | 13629 |
| 30° | 24361 | 20846 | 12979 |
| 35° | 17754 | 19825 | 12517 |
| 40° | 14181 | 18621 | 12258 |
| 45° | 12391 | 17229 | 11909 |
| 50° | 11649 | 15880 | 11675 |
| 55° | 10736 | 14509 | 11364 |
| 60° | 9840 | 13055 | 10880 |
| 65° | 8965 | 11745 | 10407 |
| 70° | 8137 | 10476 | 9713 |
| 75° | 7212 | 9052 | 8603 |
| 80° | 6209 | 7492 | 6932 |
| 85° | 5573 | 5573 | 4131 |



TEST NUMBER: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.8 | 4.3 |
| 10°-20° | 340.0 | 12.6 |
| 20°-30° | 493.4 | 18.2 |
| 30°-40° | 520.2 | 19.2 |
| 40°-50° | 460.2 | 17.0 |
| 50°-60° | 367.4 | 13.6 |
| 60°-70° | 249.6 | 9.2 |
| 70°-80° | 127.7 | 4.7 |
| 80°-90° | 30.2 | 1.1 |
| 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° | 950.2 | 35.1 |
| 0°-40° | 1470.4 | 54.3 |
| 0°-60° | 2298.0 | 84.9 |
| 0°-90° | 2705.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2705.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1226 | 1226 | 1226 | 1226 | 1226 | |
| 5° | 1370 | 1318 | 1230 | 1117 | 1090 | 136 |
| 15° | 1684 | 1529 | 1161 | 883 | 808 | 466 |
| 25° | 1403 | 1570 | 1038 | 690 | 648 | 636 |
| 35° | 764 | 1230 | 853 | 554 | 538 | 494 |
| 45° | 460 | 728 | 640 | 438 | 442 | 361 |
| 55° | 323 | 419 | 437 | 330 | 342 | 290 |
| 65° | 199 | 248 | 261 | 218 | 231 | 198 |
| 75° | 98 | 120 | 123 | 110 | 117 | 104 |
| 85° | 26 | 28 | 26 | 21 | 19 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 |
| 2.5° | 1297.1 | 1297.6 | 1298.5 | 1291.0 | 1290.0 | 1290.0 | 1283.4 | 1277.8 | 1271.2 | 1262.2 | 1263.1 |
| 5° | 1369.7 | 1374.9 | 1376.7 | 1371.1 | 1362.6 | 1361.7 | 1353.6 | 1340.4 | 1328.2 | 1318.3 | 1311.2 |
| 7.5° | 1453.6 | 1455.4 | 1451.7 | 1445.1 | 1439.4 | 1428.6 | 1415.4 | 1402.7 | 1383.8 | 1366.8 | 1354.6 |
| 10° | 1551.6 | 1554.4 | 1546.4 | 1535.6 | 1526.6 | 1513.4 | 1491.7 | 1469.6 | 1442.7 | 1416.8 | 1396.1 |
| 12.5° | 1626.1 | 1634.1 | 1623.2 | 1624.2 | 1607.2 | 1587.9 | 1561.0 | 1552.5 | 1512.0 | 1473.4 | 1450.7 |
| 15° | 1683.6 | 1683.1 | 1684.0 | 1675.1 | 1663.8 | 1660.9 | 1633.6 | 1603.9 | 1550.7 | 1529.4 | 1492.7 |
| 17.5° | 1675.1 | 1681.7 | 1685.5 | 1682.6 | 1680.7 | 1676.5 | 1664.7 | 1642.6 | 1613.3 | 1577.5 | 1533.7 |
| 20° | 1612.9 | 1622.3 | 1623.7 | 1634.6 | 1640.7 | 1648.7 | 1652.0 | 1646.8 | 1630.3 | 1601.6 | 1564.8 |
| 22.5° | 1516.7 | 1517.7 | 1522.8 | 1541.2 | 1556.3 | 1579.4 | 1591.7 | 1614.8 | 1611.0 | 1600.6 | 1571.4 |
| 25° | 1402.7 | 1397.9 | 1414.4 | 1422.9 | 1453.6 | 1485.6 | 1508.7 | 1534.2 | 1556.8 | 1570.5 | 1561.5 |
| 27.5° | 1276.3 | 1266.4 | 1291.4 | 1313.6 | 1335.3 | 1366.4 | 1401.2 | 1442.7 | 1474.3 | 1517.2 | 1527.6 |
| 30° | 1107.6 | 1111.9 | 1135.4 | 1159.5 | 1197.2 | 1246.2 | 1286.7 | 1333.4 | 1383.8 | 1433.3 | 1467.7 |
| 32.5° | 925.7 | 945.0 | 957.7 | 997.8 | 1029.8 | 1085.9 | 1150.0 | 1211.3 | 1277.3 | 1335.3 | 1393.2 |
| 35° | 763.5 | 782.4 | 803.1 | 830.0 | 876.7 | 930.9 | 988.8 | 1067.5 | 1153.3 | 1230.2 | 1293.3 |
| 37.5° | 660.8 | 657.5 | 670.2 | 690.0 | 730.1 | 776.7 | 845.6 | 925.7 | 1028.4 | 1113.7 | 1198.6 |
| 40° | 570.3 | 568.4 | 576.9 | 594.8 | 623.6 | 655.6 | 714.1 | 782.4 | 876.2 | 986.5 | 1092.5 |
| 42.5° | 508.1 | 510.0 | 513.7 | 525.1 | 542.5 | 567.5 | 607.5 | 663.2 | 747.0 | 849.3 | 965.3 |
| 45° | 460.0 | 463.3 | 468.5 | 474.6 | 485.9 | 507.6 | 532.1 | 573.6 | 641.5 | 728.2 | 840.4 |
| 47.5° | 422.3 | 423.2 | 428.9 | 434.6 | 441.2 | 454.4 | 476.0 | 502.4 | 554.3 | 628.3 | 728.7 |
| 50° | 393.1 | 389.8 | 393.6 | 397.8 | 404.9 | 413.4 | 426.5 | 451.1 | 483.1 | 540.1 | 620.7 |
| 52.5° | 357.3 | 358.2 | 361.5 | 362.4 | 368.6 | 377.1 | 388.8 | 403.9 | 432.2 | 473.7 | 536.4 |
| 55° | 323.3 | 325.7 | 327.6 | 330.4 | 336.1 | 342.2 | 351.6 | 362.9 | 385.5 | 419.0 | 468.0 |
| 57.5° | 291.3 | 292.2 | 293.6 | 299.8 | 303.1 | 308.7 | 318.1 | 328.5 | 343.6 | 369.5 | 408.2 |
| 60° | 258.3 | 258.3 | 262.1 | 264.4 | 269.1 | 274.8 | 281.9 | 291.7 | 304.9 | 325.2 | 354.9 |
| 62.5° | 228.1 | 227.6 | 228.6 | 232.8 | 236.1 | 241.3 | 248.4 | 256.4 | 268.7 | 286.1 | 309.2 |
| 65° | 198.9 | 198.0 | 200.8 | 201.7 | 205.5 | 210.7 | 216.3 | 225.3 | 235.2 | 248.4 | 270.1 |
| 67.5° | 169.7 | 171.1 | 173.0 | 174.9 | 176.7 | 182.9 | 186.6 | 193.2 | 201.7 | 213.0 | 228.1 |
| 70° | 146.1 | 146.1 | 146.1 | 147.5 | 150.4 | 153.2 | 157.0 | 162.1 | 170.1 | 179.6 | 192.8 |
| 72.5° | 119.7 | 121.6 | 123.5 | 122.1 | 125.8 | 127.3 | 132.0 | 134.3 | 141.9 | 147.1 | 158.4 |
| 75° | 98.0 | 98.0 | 98.0 | 100.4 | 101.8 | 103.2 | 106.0 | 108.9 | 112.6 | 120.2 | 126.3 |
| 77.5° | 77.3 | 76.8 | 77.3 | 77.8 | 79.7 | 81.5 | 82.5 | 84.8 | 88.6 | 92.4 | 98.0 |
| 80° | 56.6 | 57.5 | 58.0 | 58.9 | 58.9 | 59.9 | 60.3 | 63.6 | 66.0 | 68.3 | 71.6 |
| 82.5° | 40.5 | 40.5 | 40.5 | 40.5 | 41.0 | 41.5 | 42.9 | 43.4 | 43.8 | 45.7 | 48.1 |
| 85° | 25.5 | 25.0 | 25.0 | 25.9 | 25.5 | 25.5 | 26.4 | 27.3 | 27.3 | 27.8 | 29.2 |
| 87.5° | 12.3 | 12.3 | 12.7 | 12.3 | 12.3 | 12.7 | 12.7 | 12.3 | 12.7 | 13.2 | 13.7 |
| 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: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 |
| 2.5° | 1266.4 | 1262.7 | 1260.3 | 1251.8 | 1244.3 | 1236.8 | 1234.4 | 1235.3 | 1225.0 | 1215.1 | 1210.8 |
| 5° | 1307.5 | 1298.0 | 1289.1 | 1276.3 | 1261.3 | 1244.8 | 1236.3 | 1229.7 | 1213.2 | 1195.3 | 1184.9 |
| 7.5° | 1344.7 | 1332.4 | 1316.4 | 1293.8 | 1273.0 | 1248.5 | 1233.5 | 1220.7 | 1197.6 | 1173.6 | 1159.0 |
| 10° | 1378.2 | 1359.8 | 1337.6 | 1308.4 | 1281.5 | 1250.0 | 1227.8 | 1205.6 | 1177.4 | 1147.2 | 1128.4 |
| 12.5° | 1406.9 | 1380.5 | 1358.8 | 1319.2 | 1286.2 | 1244.8 | 1217.4 | 1184.0 | 1153.8 | 1116.6 | 1098.2 |
| 15° | 1455.9 | 1410.2 | 1368.7 | 1326.3 | 1287.2 | 1232.0 | 1202.8 | 1160.9 | 1121.8 | 1077.4 | 1056.2 |
| 17.5° | 1492.2 | 1442.7 | 1378.6 | 1327.2 | 1283.9 | 1225.0 | 1183.0 | 1133.1 | 1088.8 | 1039.7 | 1011.5 |
| 20° | 1522.4 | 1463.5 | 1393.2 | 1329.1 | 1274.5 | 1204.7 | 1158.0 | 1106.7 | 1052.5 | 995.4 | 964.3 |
| 22.5° | 1540.3 | 1477.6 | 1408.3 | 1322.1 | 1255.6 | 1188.2 | 1126.5 | 1069.0 | 1013.8 | 951.1 | 918.1 |
| 25° | 1541.2 | 1484.7 | 1411.1 | 1318.8 | 1240.5 | 1163.7 | 1093.0 | 1038.3 | 971.9 | 914.4 | 866.8 |
| 27.5° | 1525.7 | 1480.9 | 1409.7 | 1312.2 | 1223.1 | 1134.9 | 1058.1 | 998.3 | 928.0 | 865.8 | 818.2 |
| 30° | 1491.3 | 1467.7 | 1398.9 | 1300.9 | 1201.4 | 1104.8 | 1018.1 | 947.8 | 878.1 | 814.9 | 765.9 |
| 32.5° | 1438.0 | 1437.5 | 1379.1 | 1284.8 | 1178.3 | 1066.6 | 976.1 | 904.9 | 825.8 | 764.0 | 717.8 |
| 35° | 1365.0 | 1387.6 | 1349.4 | 1259.4 | 1148.1 | 1030.8 | 933.7 | 852.6 | 772.5 | 713.1 | 669.3 |
| 37.5° | 1272.1 | 1324.4 | 1309.3 | 1225.4 | 1109.5 | 992.6 | 887.0 | 802.2 | 725.4 | 664.1 | 621.2 |
| 40° | 1175.5 | 1247.1 | 1257.5 | 1185.4 | 1068.0 | 946.9 | 833.3 | 748.9 | 674.5 | 619.8 | 576.4 |
| 42.5° | 1071.8 | 1158.5 | 1191.5 | 1137.3 | 1022.8 | 898.8 | 785.2 | 697.1 | 623.6 | 570.8 | 533.5 |
| 45° | 953.5 | 1064.2 | 1115.6 | 1082.6 | 971.4 | 845.1 | 728.2 | 639.6 | 572.7 | 522.7 | 493.0 |
| 47.5° | 846.5 | 966.7 | 1032.2 | 1016.6 | 916.3 | 790.9 | 675.4 | 589.2 | 522.7 | 482.2 | 454.4 |
| 50° | 731.5 | 855.9 | 939.3 | 943.1 | 855.9 | 732.0 | 616.0 | 535.9 | 476.0 | 438.8 | 417.1 |
| 52.5° | 631.6 | 748.9 | 841.8 | 865.8 | 788.5 | 670.7 | 562.8 | 483.1 | 432.2 | 398.7 | 379.9 |
| 55° | 547.2 | 647.6 | 748.5 | 785.2 | 721.6 | 608.5 | 507.1 | 436.9 | 387.4 | 363.9 | 346.9 |
| 57.5° | 467.1 | 555.2 | 650.9 | 689.5 | 649.0 | 549.6 | 451.5 | 389.8 | 347.8 | 326.6 | 313.4 |
| 60° | 406.3 | 472.3 | 555.2 | 603.8 | 569.8 | 483.6 | 400.6 | 342.7 | 309.7 | 291.3 | 279.0 |
| 62.5° | 349.7 | 406.3 | 473.2 | 516.6 | 502.0 | 421.8 | 349.7 | 300.2 | 272.9 | 255.9 | 247.9 |
| 65° | 297.9 | 344.1 | 398.3 | 439.3 | 427.0 | 365.3 | 304.5 | 260.6 | 238.0 | 224.4 | 217.3 |
| 67.5° | 253.6 | 288.9 | 327.6 | 365.3 | 354.9 | 309.2 | 257.8 | 222.5 | 205.0 | 192.8 | 188.5 |
| 70° | 212.1 | 237.5 | 271.0 | 299.8 | 291.7 | 255.9 | 217.3 | 188.1 | 173.4 | 163.5 | 159.3 |
| 72.5° | 172.5 | 192.3 | 215.9 | 238.0 | 233.3 | 205.0 | 174.4 | 154.1 | 143.8 | 134.8 | 131.5 |
| 75° | 136.2 | 152.2 | 167.8 | 183.3 | 181.9 | 158.8 | 140.0 | 123.0 | 114.1 | 107.0 | 105.6 |
| 77.5° | 106.5 | 116.4 | 127.7 | 137.6 | 135.3 | 120.2 | 104.6 | 94.3 | 87.2 | 82.5 | 82.0 |
| 80° | 76.8 | 82.0 | 89.6 | 96.2 | 92.9 | 87.2 | 75.4 | 68.3 | 63.6 | 58.9 | 57.0 |
| 82.5° | 50.4 | 55.6 | 59.4 | 62.2 | 59.9 | 54.7 | 48.5 | 44.3 | 41.9 | 39.1 | 38.6 |
| 85° | 29.2 | 32.1 | 33.9 | 34.9 | 33.9 | 30.6 | 27.3 | 25.5 | 23.1 | 21.7 | 21.2 |
| 87.5° | 14.1 | 14.1 | 14.1 | 15.1 | 13.7 | 13.7 | 11.8 | 10.4 | 9.9 | 9.4 | 8.5 |
| 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: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 | 1226.4 |
| 2.5° | 1206.1 | 1203.3 | 1193.4 | 1188.2 | 1179.7 | 1171.7 | 1166.5 | 1168.9 | 1170.8 | 1169.8 | 1168.4 |
| 5° | 1175.5 | 1166.5 | 1152.9 | 1141.1 | 1132.6 | 1117.0 | 1110.4 | 1107.1 | 1104.3 | 1101.0 | 1097.7 |
| 7.5° | 1141.5 | 1128.8 | 1109.5 | 1094.4 | 1079.3 | 1059.5 | 1049.6 | 1044.0 | 1037.9 | 1030.8 | 1024.2 |
| 10° | 1104.8 | 1085.0 | 1064.2 | 1040.7 | 1021.8 | 1004.4 | 988.8 | 978.5 | 969.0 | 960.1 | 953.5 |
| 12.5° | 1066.1 | 1042.6 | 1015.7 | 981.3 | 960.1 | 933.2 | 934.2 | 913.9 | 897.9 | 893.2 | 885.1 |
| 15° | 1024.7 | 992.6 | 960.1 | 921.9 | 905.4 | 882.8 | 868.7 | 854.5 | 841.8 | 832.8 | 830.5 |
| 17.5° | 979.4 | 936.5 | 904.9 | 876.7 | 849.8 | 826.7 | 814.4 | 803.1 | 792.3 | 779.1 | 778.6 |
| 20° | 926.2 | 890.3 | 855.0 | 830.9 | 803.1 | 779.6 | 763.5 | 752.2 | 743.3 | 736.2 | 730.1 |
| 22.5° | 875.7 | 835.7 | 804.1 | 777.2 | 749.9 | 732.0 | 720.2 | 709.3 | 702.3 | 694.3 | 688.6 |
| 25° | 821.0 | 790.4 | 755.1 | 725.4 | 702.7 | 690.5 | 680.1 | 670.7 | 666.0 | 660.8 | 654.2 |
| 27.5° | 774.4 | 740.5 | 705.6 | 682.5 | 661.7 | 650.9 | 642.9 | 635.8 | 631.6 | 628.3 | 624.0 |
| 30° | 724.4 | 690.0 | 664.1 | 641.5 | 625.0 | 614.1 | 609.4 | 605.7 | 600.5 | 598.6 | 596.7 |
| 32.5° | 676.4 | 646.2 | 625.0 | 606.1 | 590.6 | 584.4 | 580.2 | 576.9 | 573.1 | 571.2 | 567.0 |
| 35° | 631.6 | 605.7 | 584.0 | 573.1 | 560.4 | 554.3 | 551.0 | 546.3 | 542.5 | 540.6 | 540.1 |
| 37.5° | 588.7 | 565.1 | 550.5 | 535.9 | 529.8 | 526.5 | 521.8 | 518.5 | 517.0 | 516.6 | 516.1 |
| 40° | 547.2 | 528.8 | 516.1 | 504.8 | 502.4 | 496.8 | 493.0 | 490.2 | 490.2 | 490.6 | 490.2 |
| 42.5° | 509.5 | 493.5 | 482.6 | 473.2 | 470.4 | 467.6 | 463.8 | 464.3 | 465.2 | 467.1 | 465.2 |
| 45° | 471.3 | 459.5 | 451.5 | 446.8 | 441.6 | 438.3 | 437.9 | 439.3 | 439.7 | 440.2 | 441.6 |
| 47.5° | 435.5 | 428.0 | 420.4 | 414.8 | 412.4 | 411.9 | 411.0 | 413.4 | 415.7 | 416.2 | 418.5 |
| 50° | 404.4 | 395.4 | 389.3 | 386.0 | 384.1 | 383.2 | 384.1 | 387.0 | 388.8 | 391.2 | 392.6 |
| 52.5° | 369.5 | 363.9 | 360.1 | 357.7 | 357.3 | 358.2 | 358.2 | 361.5 | 364.8 | 365.3 | 365.7 |
| 55° | 337.9 | 333.2 | 332.3 | 328.0 | 329.9 | 329.5 | 331.8 | 333.7 | 336.5 | 339.4 | 339.8 |
| 57.5° | 305.9 | 301.6 | 298.8 | 299.3 | 299.8 | 301.6 | 303.5 | 306.8 | 310.1 | 313.4 | 313.4 |
| 60° | 273.8 | 272.0 | 270.5 | 270.5 | 271.5 | 274.3 | 276.7 | 280.0 | 281.9 | 283.7 | 285.2 |
| 62.5° | 244.6 | 242.7 | 241.3 | 242.3 | 245.1 | 246.5 | 249.3 | 250.7 | 252.6 | 254.5 | 255.0 |
| 65° | 213.5 | 212.6 | 214.0 | 214.9 | 215.4 | 217.8 | 221.1 | 222.5 | 224.4 | 225.3 | 228.6 |
| 67.5° | 185.2 | 185.2 | 184.8 | 186.2 | 189.0 | 189.5 | 192.8 | 196.5 | 196.5 | 198.4 | 200.8 |
| 70° | 156.5 | 157.4 | 158.4 | 159.3 | 161.7 | 162.6 | 165.0 | 166.4 | 168.3 | 169.7 | 171.1 |
| 72.5° | 130.1 | 130.1 | 131.0 | 130.6 | 132.4 | 134.8 | 136.7 | 138.1 | 140.0 | 141.9 | 143.3 |
| 75° | 104.2 | 104.2 | 105.1 | 105.6 | 107.9 | 110.3 | 109.8 | 110.8 | 112.6 | 114.5 | 115.5 |
| 77.5° | 80.6 | 79.7 | 80.6 | 81.1 | 82.0 | 83.9 | 84.4 | 85.8 | 88.1 | 87.7 | 88.6 |
| 80° | 58.0 | 56.6 | 58.0 | 58.4 | 58.4 | 60.8 | 60.8 | 61.7 | 63.2 | 61.7 | 63.2 |
| 82.5° | 37.2 | 36.8 | 37.7 | 37.7 | 38.6 | 38.2 | 39.1 | 39.1 | 40.5 | 40.1 | 40.5 |
| 85° | 20.7 | 20.3 | 20.7 | 20.3 | 20.7 | 21.2 | 21.2 | 20.7 | 20.7 | 21.7 | 20.3 |
| 87.5° | 8.0 | 7.5 | 7.1 | 7.1 | 6.6 | 6.1 | 5.7 | 5.7 | 5.7 | 4.7 | 4.7 |
| 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: P242291

CATALOG NUMBER: S122DR-S675D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1226.4 | 1226.4 | 1226.4 | 1226.4 |
| 2.5° | 1163.7 | 1162.8 | 1162.8 | 1158.5 |
| 5° | 1091.1 | 1089.7 | 1087.3 | 1089.7 |
| 7.5° | 1022.3 | 1016.2 | 1015.2 | 1010.5 |
| 10° | 945.5 | 941.7 | 941.2 | 932.3 |
| 12.5° | 887.0 | 876.7 | 879.0 | 874.8 |
| 15° | 817.7 | 817.7 | 815.9 | 807.8 |
| 17.5° | 768.3 | 767.8 | 763.5 | 766.4 |
| 20° | 724.9 | 722.1 | 716.4 | 716.4 |
| 22.5° | 683.9 | 684.4 | 678.2 | 680.6 |
| 25° | 653.7 | 650.0 | 647.1 | 648.5 |
| 27.5° | 622.6 | 621.2 | 620.7 | 616.5 |
| 30° | 596.2 | 591.5 | 592.5 | 590.1 |
| 32.5° | 566.1 | 565.1 | 563.7 | 561.8 |
| 35° | 539.2 | 539.7 | 537.3 | 538.3 |
| 37.5° | 515.2 | 517.0 | 515.6 | 515.6 |
| 40° | 491.6 | 491.6 | 491.6 | 493.0 |
| 42.5° | 469.0 | 468.0 | 467.1 | 466.6 |
| 45° | 442.6 | 444.0 | 444.5 | 442.1 |
| 47.5° | 419.5 | 419.9 | 419.5 | 422.3 |
| 50° | 395.0 | 394.0 | 395.0 | 394.0 |
| 52.5° | 369.0 | 369.5 | 368.6 | 368.6 |
| 55° | 341.7 | 342.7 | 342.2 | 342.2 |
| 57.5° | 313.9 | 314.4 | 315.3 | 313.0 |
| 60° | 284.7 | 287.0 | 286.6 | 285.6 |
| 62.5° | 257.8 | 258.3 | 258.3 | 258.3 |
| 65° | 230.0 | 230.9 | 229.5 | 230.9 |
| 67.5° | 199.8 | 200.3 | 201.3 | 201.7 |
| 70° | 172.0 | 171.6 | 173.0 | 174.4 |
| 72.5° | 142.8 | 144.2 | 143.3 | 144.2 |
| 75° | 114.5 | 115.9 | 115.5 | 116.9 |
| 77.5° | 87.7 | 88.1 | 88.1 | 88.6 |
| 80° | 63.2 | 62.2 | 61.3 | 63.2 |
| 82.5° | 39.1 | 40.1 | 39.1 | 38.6 |
| 85° | 20.3 | 19.8 | 18.9 | 18.9 |
| 87.5° | 4.7 | 4.2 | 4.2 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)