

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: P333847

Luminaire Tested: **S122RDS-S675D830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDS-S675D830-4F0-1E-UDD-A
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 675 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2343.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

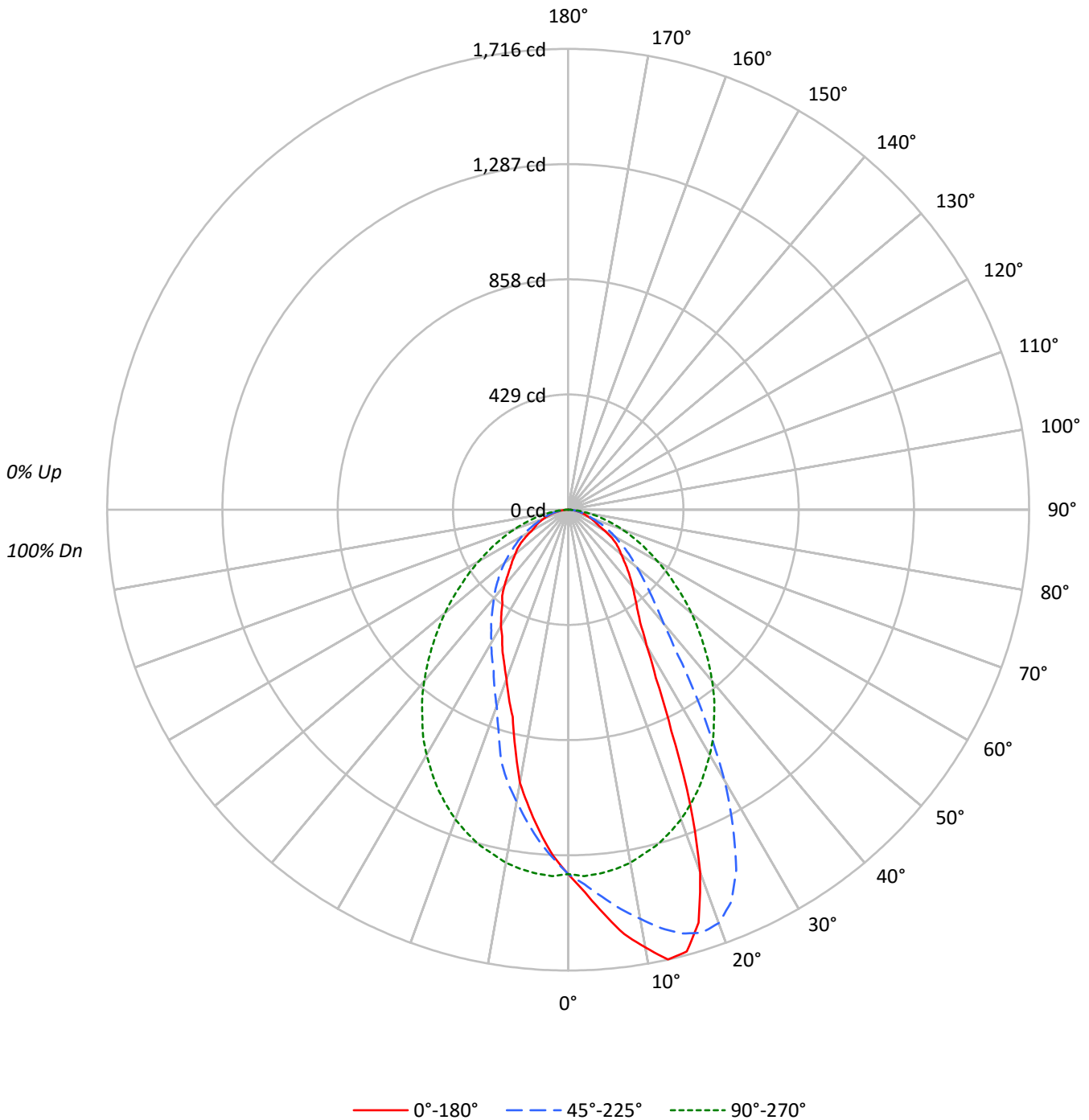
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | | 96 | 94 | 92 | | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | | 87 | 83 | 80 | | 84 | 81 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | | 78 | 73 | 69 | | 76 | 72 | 68 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | | 71 | 66 | 61 | | 69 | 64 | 60 | 59 |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | | 65 | 59 | 55 | | 63 | 58 | 54 | 52 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | | 60 | 54 | 49 | | 58 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | | 55 | 49 | 44 | | 54 | 48 | 44 | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | | 51 | 45 | 40 | | 50 | 44 | 40 | 39 |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 49 | 42 | 37 | | 47 | 41 | 37 | | 47 | 41 | 37 | 35 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | | 44 | 38 | 34 | | 44 | 38 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 21900 | 21900 | 21900 |
| 5° | 24459 | 22037 | 19540 |
| 10° | 27137 | 21882 | 16938 |
| 15° | 28471 | 21561 | 13346 |
| 20° | 24682 | 21088 | 11548 |
| 25° | 16188 | 20436 | 10311 |
| 30° | 10895 | 19647 | 9331 |
| 35° | 8824 | 18654 | 8416 |
| 40° | 7847 | 17572 | 7788 |
| 45° | 7104 | 16303 | 6953 |
| 50° | 6463 | 15046 | 6440 |
| 55° | 6077 | 13652 | 5996 |
| 60° | 5083 | 12374 | 5021 |
| 65° | 4287 | 11236 | 4863 |
| 70° | 3961 | 10036 | 4584 |
| 75° | 3706 | 8734 | 4236 |
| 80° | 3422 | 7187 | 3766 |
| 85° | 3149 | 5669 | 3316 |



TEST NUMBER: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.7 | 5.5 |
| 10°-20° | 359.1 | 15.3 |
| 20°-30° | 462.1 | 19.7 |
| 30°-40° | 438.4 | 18.7 |
| 40°-50° | 375.7 | 16.0 |
| 50°-60° | 286.2 | 12.2 |
| 60°-70° | 180.5 | 7.7 |
| 70°-80° | 90.1 | 3.8 |
| 80°-90° | 23.2 | 1.0 |
| 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° | 949.9 | 40.5 |
| 0°-40° | 1388.3 | 59.2 |
| 0°-60° | 2050.2 | 87.5 |
| 0°-90° | 2343.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2343.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1356 | 1356 | 1356 | 1356 | 1356 | |
| 5° | 1509 | 1447 | 1360 | 1239 | 1206 | 149 |
| 15° | 1703 | 1634 | 1290 | 966 | 798 | 463 |
| 25° | 909 | 1480 | 1147 | 657 | 579 | 429 |
| 35° | 448 | 804 | 946 | 499 | 427 | 285 |
| 45° | 311 | 424 | 714 | 368 | 304 | 241 |
| 55° | 216 | 264 | 485 | 249 | 213 | 190 |
| 65° | 112 | 151 | 294 | 150 | 127 | 113 |
| 75° | 59 | 66 | 140 | 76 | 68 | 63 |
| 85° | 17 | 17 | 31 | 18 | 18 | 19 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5° | 1425.2 | 1426.6 | 1428.0 | 1424.7 | 1424.7 | 1421.9 | 1415.8 | 1411.1 | 1397.9 | 1396.0 | 1396.0 |
| 5° | 1509.1 | 1508.1 | 1510.0 | 1503.9 | 1495.4 | 1493.5 | 1484.6 | 1472.8 | 1460.5 | 1446.9 | 1444.1 |
| 7.5° | 1593.9 | 1588.3 | 1585.9 | 1588.7 | 1579.8 | 1567.5 | 1552.5 | 1538.3 | 1517.1 | 1499.7 | 1488.8 |
| 10° | 1655.2 | 1670.7 | 1661.3 | 1644.8 | 1648.1 | 1626.0 | 1614.2 | 1593.9 | 1577.0 | 1547.3 | 1540.7 |
| 12.5° | 1715.5 | 1719.3 | 1717.9 | 1710.3 | 1704.2 | 1690.5 | 1673.6 | 1656.6 | 1621.7 | 1595.8 | 1568.5 |
| 15° | 1703.3 | 1712.2 | 1714.6 | 1711.7 | 1714.1 | 1713.2 | 1704.7 | 1690.1 | 1662.7 | 1633.5 | 1608.1 |
| 17.5° | 1612.8 | 1623.1 | 1631.6 | 1639.2 | 1651.0 | 1674.0 | 1681.1 | 1683.9 | 1672.6 | 1651.9 | 1630.7 |
| 20° | 1436.5 | 1426.1 | 1469.5 | 1491.7 | 1510.5 | 1557.6 | 1598.2 | 1613.7 | 1638.7 | 1638.2 | 1633.5 |
| 22.5° | 1186.7 | 1192.4 | 1232.9 | 1260.2 | 1324.3 | 1371.5 | 1419.1 | 1488.4 | 1542.6 | 1582.6 | 1607.1 |
| 25° | 908.7 | 926.6 | 967.6 | 1003.4 | 1064.7 | 1152.3 | 1232.0 | 1324.3 | 1411.5 | 1480.3 | 1545.9 |
| 27.5° | 706.9 | 709.3 | 746.5 | 782.8 | 820.5 | 896.4 | 1002.9 | 1113.7 | 1238.1 | 1327.6 | 1440.8 |
| 30° | 584.4 | 581.6 | 595.2 | 615.5 | 646.6 | 702.2 | 777.6 | 886.0 | 1010.0 | 1164.6 | 1302.2 |
| 32.5° | 497.7 | 498.6 | 508.1 | 521.7 | 546.2 | 579.2 | 624.9 | 707.9 | 823.4 | 974.6 | 1142.0 |
| 35° | 447.7 | 447.3 | 454.8 | 465.6 | 476.5 | 500.5 | 535.9 | 582.1 | 662.6 | 804.5 | 969.5 |
| 37.5° | 406.3 | 408.6 | 411.9 | 419.0 | 432.2 | 446.3 | 468.5 | 501.0 | 562.3 | 650.4 | 798.4 |
| 40° | 372.3 | 373.3 | 378.5 | 384.1 | 391.2 | 401.5 | 419.0 | 444.0 | 485.9 | 552.8 | 654.2 |
| 42.5° | 341.2 | 342.2 | 345.5 | 350.6 | 355.8 | 366.2 | 379.9 | 400.6 | 432.7 | 481.2 | 560.4 |
| 45° | 311.1 | 311.1 | 314.4 | 316.7 | 322.8 | 332.3 | 344.0 | 362.0 | 385.5 | 424.2 | 479.8 |
| 47.5° | 281.8 | 281.8 | 284.2 | 288.4 | 292.7 | 300.2 | 312.5 | 327.6 | 344.5 | 376.1 | 425.6 |
| 50° | 257.3 | 257.8 | 259.2 | 262.5 | 264.9 | 271.5 | 280.4 | 293.1 | 311.1 | 334.1 | 373.7 |
| 52.5° | 237.5 | 237.1 | 238.9 | 239.9 | 241.3 | 245.5 | 251.7 | 262.5 | 278.1 | 297.4 | 328.5 |
| 55° | 215.9 | 214.0 | 216.8 | 219.2 | 220.6 | 222.5 | 226.2 | 233.3 | 247.0 | 263.9 | 288.4 |
| 57.5° | 190.4 | 189.5 | 190.9 | 193.2 | 197.5 | 202.2 | 204.5 | 209.3 | 216.3 | 229.5 | 255.4 |
| 60° | 157.4 | 157.4 | 161.7 | 163.1 | 168.3 | 174.9 | 181.4 | 185.2 | 192.3 | 200.3 | 218.2 |
| 62.5° | 128.2 | 128.7 | 130.1 | 131.5 | 133.8 | 142.3 | 152.2 | 161.7 | 168.3 | 175.8 | 186.2 |
| 65° | 112.2 | 113.1 | 113.1 | 114.1 | 115.9 | 117.8 | 121.6 | 128.2 | 140.0 | 150.8 | 159.8 |
| 67.5° | 98.0 | 98.0 | 98.5 | 99.4 | 99.9 | 102.3 | 103.7 | 107.0 | 109.3 | 121.6 | 133.8 |
| 70° | 83.9 | 85.3 | 84.8 | 85.8 | 86.2 | 87.2 | 89.1 | 90.5 | 94.7 | 97.1 | 103.7 |
| 72.5° | 70.7 | 71.6 | 71.6 | 72.1 | 73.5 | 73.5 | 74.9 | 76.4 | 78.7 | 80.6 | 83.4 |
| 75° | 59.4 | 58.9 | 59.4 | 60.3 | 60.8 | 61.3 | 61.3 | 63.2 | 64.6 | 66.5 | 68.8 |
| 77.5° | 48.1 | 48.5 | 48.5 | 48.5 | 48.5 | 49.5 | 49.5 | 50.4 | 51.8 | 52.8 | 54.2 |
| 80° | 36.8 | 37.2 | 36.8 | 37.2 | 37.7 | 38.2 | 37.7 | 38.2 | 39.6 | 40.5 | 40.5 |
| 82.5° | 26.4 | 26.4 | 26.9 | 26.9 | 26.9 | 26.9 | 27.8 | 27.8 | 28.7 | 28.3 | 28.7 |
| 85° | 17.0 | 16.5 | 16.5 | 16.5 | 17.0 | 17.4 | 17.0 | 17.0 | 17.4 | 17.4 | 17.4 |
| 87.5° | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.5 | 8.0 | 8.5 | 8.0 |
| 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: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5° | 1396.9 | 1393.2 | 1389.9 | 1381.4 | 1377.1 | 1367.7 | 1366.3 | 1365.8 | 1353.6 | 1341.8 | 1338.5 |
| 5° | 1436.5 | 1429.0 | 1417.7 | 1404.5 | 1390.8 | 1376.7 | 1367.2 | 1359.7 | 1340.8 | 1322.9 | 1312.6 |
| 7.5° | 1475.6 | 1462.0 | 1444.1 | 1421.4 | 1402.1 | 1379.5 | 1363.9 | 1349.8 | 1323.9 | 1300.3 | 1284.8 |
| 10° | 1520.4 | 1494.0 | 1468.1 | 1433.7 | 1406.8 | 1380.4 | 1355.9 | 1334.7 | 1304.5 | 1270.6 | 1246.6 |
| 12.5° | 1548.2 | 1518.5 | 1480.3 | 1446.9 | 1410.1 | 1374.8 | 1339.9 | 1311.1 | 1274.4 | 1239.0 | 1209.3 |
| 15° | 1572.7 | 1541.6 | 1498.3 | 1450.2 | 1405.4 | 1361.6 | 1323.9 | 1289.9 | 1243.8 | 1201.8 | 1166.9 |
| 17.5° | 1595.3 | 1552.5 | 1507.7 | 1452.1 | 1402.6 | 1349.3 | 1301.7 | 1259.3 | 1208.9 | 1159.4 | 1119.8 |
| 20° | 1605.2 | 1562.8 | 1509.1 | 1453.5 | 1392.2 | 1326.7 | 1274.4 | 1227.3 | 1172.1 | 1117.0 | 1069.8 |
| 22.5° | 1599.1 | 1568.5 | 1507.2 | 1437.9 | 1374.8 | 1305.5 | 1244.7 | 1188.1 | 1125.5 | 1068.9 | 1012.3 |
| 25° | 1567.1 | 1555.8 | 1499.2 | 1426.6 | 1355.0 | 1275.3 | 1207.0 | 1147.1 | 1077.4 | 1017.1 | 957.7 |
| 27.5° | 1508.1 | 1524.6 | 1484.6 | 1405.9 | 1328.6 | 1242.8 | 1168.3 | 1100.9 | 1029.8 | 962.4 | 903.0 |
| 30° | 1414.8 | 1470.9 | 1455.8 | 1384.2 | 1295.1 | 1211.2 | 1125.0 | 1053.8 | 976.5 | 906.8 | 848.3 |
| 32.5° | 1287.1 | 1388.9 | 1411.1 | 1354.0 | 1261.2 | 1166.9 | 1075.5 | 1004.8 | 923.3 | 848.8 | 792.2 |
| 35° | 1150.0 | 1288.5 | 1352.2 | 1314.0 | 1221.6 | 1122.2 | 1028.8 | 946.4 | 865.3 | 792.7 | 736.2 |
| 37.5° | 987.4 | 1172.1 | 1270.1 | 1265.9 | 1177.8 | 1076.4 | 975.1 | 893.6 | 810.2 | 738.5 | 679.6 |
| 40° | 830.0 | 1034.5 | 1172.6 | 1203.2 | 1131.6 | 1019.9 | 917.1 | 833.7 | 752.7 | 682.9 | 612.7 |
| 42.5° | 688.6 | 892.2 | 1069.8 | 1128.8 | 1075.5 | 964.7 | 861.5 | 773.4 | 695.2 | 630.1 | 558.0 |
| 45° | 579.7 | 757.8 | 944.9 | 1040.2 | 1008.6 | 905.8 | 797.0 | 714.0 | 640.0 | 583.0 | 514.2 |
| 47.5° | 501.9 | 631.5 | 819.6 | 944.0 | 940.2 | 842.7 | 734.3 | 654.6 | 584.9 | 532.1 | 473.7 |
| 50° | 437.4 | 546.7 | 699.9 | 846.0 | 858.2 | 779.5 | 677.7 | 599.0 | 534.9 | 478.8 | 434.1 |
| 52.5° | 379.4 | 464.7 | 598.5 | 737.1 | 777.6 | 712.1 | 614.1 | 542.9 | 481.2 | 430.8 | 394.0 |
| 55° | 330.4 | 400.1 | 504.8 | 635.8 | 688.6 | 640.5 | 552.8 | 485.0 | 434.5 | 391.2 | 358.2 |
| 57.5° | 287.5 | 342.2 | 429.4 | 539.2 | 599.0 | 566.5 | 491.6 | 435.5 | 390.7 | 350.2 | 323.8 |
| 60° | 247.4 | 290.3 | 361.5 | 449.6 | 517.5 | 496.3 | 434.5 | 383.2 | 346.4 | 312.5 | 288.0 |
| 62.5° | 209.7 | 245.1 | 303.5 | 370.9 | 431.7 | 426.1 | 378.5 | 337.4 | 306.3 | 276.2 | 256.4 |
| 65° | 174.9 | 201.7 | 249.3 | 305.4 | 355.4 | 359.6 | 323.3 | 294.1 | 265.3 | 240.8 | 222.5 |
| 67.5° | 144.7 | 163.1 | 198.9 | 248.4 | 286.5 | 299.7 | 275.2 | 251.7 | 228.1 | 208.3 | 191.8 |
| 70° | 117.4 | 131.5 | 156.0 | 194.2 | 228.6 | 242.7 | 230.0 | 212.6 | 192.8 | 177.2 | 163.5 |
| 72.5° | 89.5 | 103.2 | 119.7 | 145.2 | 173.4 | 189.0 | 186.6 | 175.3 | 160.2 | 148.0 | 135.3 |
| 75° | 71.6 | 75.9 | 88.1 | 107.0 | 130.1 | 143.3 | 146.6 | 140.0 | 127.3 | 117.4 | 109.8 |
| 77.5° | 55.6 | 58.4 | 65.0 | 76.4 | 92.4 | 104.2 | 109.3 | 108.4 | 99.0 | 92.4 | 85.3 |
| 80° | 42.4 | 43.8 | 46.7 | 50.9 | 62.2 | 74.0 | 77.3 | 77.3 | 71.2 | 68.8 | 61.7 |
| 82.5° | 29.7 | 30.6 | 32.0 | 33.9 | 37.7 | 47.6 | 51.4 | 52.3 | 49.0 | 45.7 | 40.5 |
| 85° | 18.4 | 17.9 | 18.9 | 20.3 | 21.2 | 24.0 | 29.7 | 30.6 | 29.7 | 25.9 | 24.5 |
| 87.5° | 8.0 | 8.5 | 8.5 | 8.0 | 8.5 | 9.0 | 11.3 | 13.7 | 11.8 | 10.4 | 9.4 |
| 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: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5° | 1332.4 | 1329.1 | 1322.9 | 1313.5 | 1307.8 | 1298.0 | 1291.4 | 1295.1 | 1296.1 | 1295.1 | 1294.2 |
| 5° | 1301.3 | 1291.4 | 1277.7 | 1264.5 | 1252.2 | 1239.0 | 1231.5 | 1228.2 | 1221.6 | 1217.8 | 1215.9 |
| 7.5° | 1265.9 | 1251.3 | 1232.0 | 1210.8 | 1191.0 | 1172.1 | 1163.6 | 1157.0 | 1144.8 | 1138.2 | 1132.1 |
| 10° | 1225.4 | 1198.5 | 1179.2 | 1149.0 | 1130.6 | 1103.8 | 1085.4 | 1085.9 | 1067.5 | 1057.1 | 1049.6 |
| 12.5° | 1180.6 | 1150.4 | 1115.1 | 1088.7 | 1061.4 | 1041.1 | 1018.0 | 1006.7 | 986.9 | 977.0 | 953.4 |
| 15° | 1130.2 | 1095.8 | 1061.8 | 1025.1 | 999.1 | 965.7 | 933.6 | 894.5 | 862.9 | 835.6 | 828.1 |
| 17.5° | 1076.4 | 1034.0 | 1000.6 | 962.9 | 922.3 | 861.5 | 821.9 | 797.9 | 779.1 | 764.9 | 753.6 |
| 20° | 1020.8 | 977.5 | 941.2 | 876.1 | 816.3 | 778.1 | 750.8 | 733.3 | 713.5 | 698.0 | 689.5 |
| 22.5° | 962.4 | 916.7 | 863.9 | 789.4 | 746.1 | 717.3 | 693.7 | 673.0 | 661.2 | 649.9 | 642.4 |
| 25° | 907.7 | 858.2 | 776.7 | 726.7 | 689.0 | 657.0 | 640.0 | 627.8 | 613.6 | 597.1 | 589.6 |
| 27.5° | 850.7 | 772.0 | 710.2 | 674.0 | 635.3 | 615.0 | 600.4 | 580.2 | 567.4 | 561.3 | 552.8 |
| 30° | 785.2 | 706.5 | 660.8 | 620.2 | 594.8 | 571.7 | 553.8 | 543.4 | 531.2 | 518.4 | 513.2 |
| 32.5° | 712.1 | 653.2 | 609.9 | 577.8 | 551.9 | 533.0 | 519.8 | 501.5 | 493.4 | 486.8 | 474.6 |
| 35° | 654.2 | 606.6 | 566.5 | 539.2 | 514.7 | 498.6 | 482.1 | 472.2 | 456.2 | 449.6 | 445.4 |
| 37.5° | 601.4 | 559.9 | 529.7 | 499.6 | 480.7 | 461.9 | 452.4 | 435.9 | 429.8 | 419.5 | 411.0 |
| 40° | 558.0 | 517.5 | 488.7 | 465.2 | 443.5 | 430.3 | 417.6 | 404.8 | 394.5 | 390.2 | 379.4 |
| 42.5° | 513.7 | 482.6 | 453.9 | 427.5 | 414.7 | 400.6 | 383.6 | 375.2 | 364.3 | 356.8 | 351.1 |
| 45° | 473.7 | 444.4 | 419.9 | 398.7 | 382.7 | 368.1 | 357.7 | 342.2 | 336.0 | 322.4 | 316.7 |
| 47.5° | 438.3 | 410.0 | 386.5 | 365.7 | 349.7 | 341.2 | 326.1 | 312.5 | 304.0 | 294.6 | 286.5 |
| 50° | 400.1 | 377.5 | 354.9 | 337.0 | 322.8 | 309.2 | 293.6 | 287.5 | 272.4 | 268.2 | 263.9 |
| 52.5° | 365.3 | 344.0 | 323.8 | 306.3 | 292.2 | 279.0 | 265.8 | 257.3 | 248.4 | 244.1 | 241.3 |
| 55° | 333.2 | 312.5 | 292.7 | 277.1 | 263.0 | 249.3 | 240.8 | 230.9 | 226.2 | 222.9 | 219.2 |
| 57.5° | 300.2 | 281.4 | 265.8 | 249.8 | 235.6 | 224.3 | 214.0 | 208.3 | 203.6 | 199.8 | 194.6 |
| 60° | 269.1 | 251.2 | 237.5 | 222.9 | 208.3 | 199.4 | 191.8 | 184.7 | 179.1 | 172.5 | 170.6 |
| 62.5° | 236.1 | 221.0 | 208.8 | 194.6 | 182.4 | 174.4 | 167.3 | 160.7 | 153.6 | 143.3 | 140.4 |
| 65° | 206.4 | 194.2 | 181.0 | 169.2 | 157.9 | 149.9 | 139.5 | 132.0 | 129.1 | 128.2 | 127.7 |
| 67.5° | 179.1 | 167.3 | 156.0 | 143.7 | 133.4 | 124.4 | 118.3 | 117.4 | 115.5 | 115.0 | 113.6 |
| 70° | 151.8 | 140.9 | 129.6 | 118.3 | 108.4 | 107.0 | 105.1 | 103.2 | 100.9 | 99.9 | 99.0 |
| 72.5° | 127.3 | 115.9 | 104.6 | 96.1 | 93.3 | 91.4 | 89.5 | 87.7 | 86.2 | 85.3 | 84.8 |
| 75° | 101.3 | 91.0 | 83.4 | 80.1 | 77.8 | 76.4 | 73.5 | 72.1 | 71.2 | 69.8 | 69.3 |
| 77.5° | 77.3 | 70.7 | 66.9 | 65.0 | 62.2 | 60.8 | 58.9 | 57.5 | 56.1 | 56.1 | 55.1 |
| 80° | 55.6 | 52.8 | 50.4 | 47.6 | 46.7 | 44.8 | 44.3 | 42.9 | 43.4 | 41.9 | 41.9 |
| 82.5° | 40.1 | 36.3 | 34.4 | 33.5 | 32.5 | 31.1 | 30.6 | 30.2 | 30.2 | 29.2 | 29.2 |
| 85° | 22.2 | 21.2 | 20.3 | 19.3 | 19.3 | 17.9 | 18.4 | 17.9 | 17.9 | 17.0 | 16.5 |
| 87.5° | 9.0 | 8.5 | 7.5 | 7.5 | 7.5 | 7.1 | 7.1 | 6.6 | 6.6 | 6.6 | 6.1 |
| 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: P333847

CATALOG NUMBER: S122RDS-S675D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1356.4 | 1356.4 | 1356.4 | 1356.4 |
| 2.5° | 1289.0 | 1289.9 | 1288.5 | 1289.5 |
| 5° | 1213.6 | 1207.9 | 1207.0 | 1205.6 |
| 7.5° | 1124.5 | 1124.0 | 1121.2 | 1117.9 |
| 10° | 1039.2 | 1036.9 | 1036.4 | 1033.1 |
| 12.5° | 939.3 | 920.9 | 919.0 | 909.6 |
| 15° | 816.8 | 813.9 | 804.5 | 798.4 |
| 17.5° | 748.4 | 739.0 | 735.7 | 734.3 |
| 20° | 682.9 | 674.4 | 673.0 | 672.1 |
| 22.5° | 637.7 | 628.7 | 624.5 | 621.2 |
| 25° | 584.9 | 581.6 | 579.7 | 578.8 |
| 27.5° | 543.4 | 534.9 | 534.0 | 531.6 |
| 30° | 509.0 | 506.6 | 503.3 | 500.5 |
| 32.5° | 468.5 | 466.6 | 463.8 | 462.8 |
| 35° | 440.7 | 434.1 | 431.2 | 427.0 |
| 37.5° | 410.0 | 406.3 | 401.5 | 403.4 |
| 40° | 373.3 | 370.9 | 370.0 | 369.5 |
| 42.5° | 344.0 | 336.5 | 333.7 | 333.7 |
| 45° | 314.4 | 308.2 | 304.0 | 304.5 |
| 47.5° | 282.3 | 282.8 | 280.0 | 280.9 |
| 50° | 260.6 | 257.8 | 255.9 | 256.4 |
| 52.5° | 239.9 | 237.5 | 236.1 | 238.5 |
| 55° | 216.8 | 214.0 | 213.5 | 213.0 |
| 57.5° | 191.8 | 190.4 | 188.0 | 186.6 |
| 60° | 164.5 | 160.7 | 156.0 | 155.5 |
| 62.5° | 139.5 | 139.5 | 139.5 | 139.5 |
| 65° | 126.8 | 126.3 | 126.8 | 127.3 |
| 67.5° | 113.6 | 112.6 | 111.7 | 112.2 |
| 70° | 98.0 | 97.6 | 97.1 | 97.1 |
| 72.5° | 82.9 | 82.9 | 82.5 | 82.0 |
| 75° | 68.8 | 67.9 | 67.9 | 67.9 |
| 77.5° | 55.1 | 54.7 | 54.2 | 53.7 |
| 80° | 41.5 | 41.0 | 40.5 | 40.5 |
| 82.5° | 29.2 | 28.7 | 28.7 | 28.3 |
| 85° | 17.0 | 17.4 | 17.0 | 17.9 |
| 87.5° | 6.1 | 5.7 | 6.1 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)