

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: P243264

Luminaire Tested: **S122RDR-H675D840-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-H675D840-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.2 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

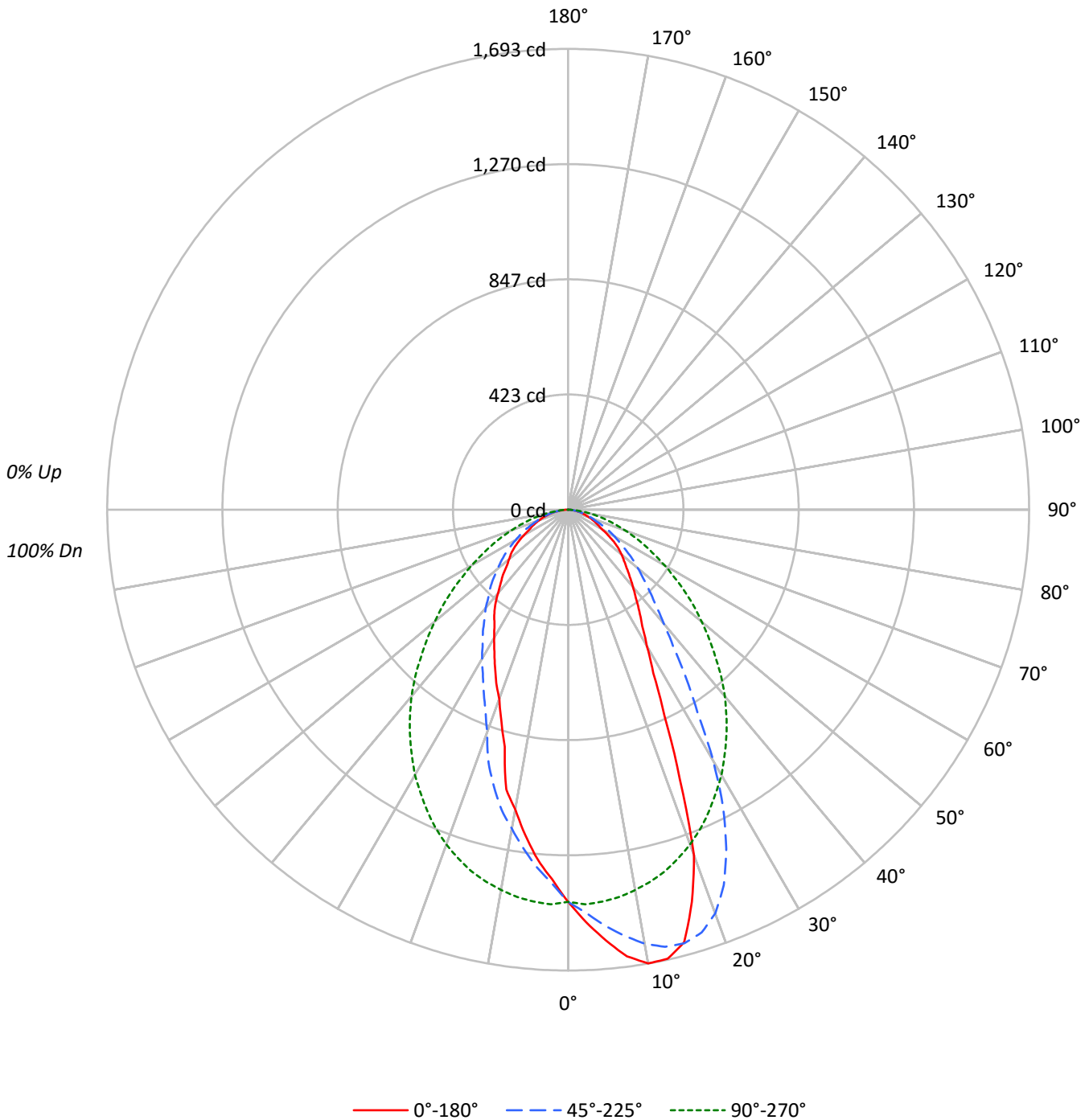
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243264

CATALOG NUMBER: S122RDR-H675D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243264

CATALOG NUMBER: S122RDR-H675D840-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 | 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 | 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 | 86 | 83 | 79 | 84 | 80 | 78 | | | | | 76 | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | | | | | 66 | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | | | | | 58 | | | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 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 | | | | | 38 | | | | |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 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° | 27444 | 27444 | 27444 |
| 5° | 30379 | 27629 | 24663 |
| 10° | 32738 | 27438 | 21630 |
| 15° | 32447 | 27120 | 17775 |
| 20° | 27371 | 26519 | 15004 |
| 25° | 17597 | 25704 | 13356 |
| 30° | 12713 | 24752 | 11967 |
| 35° | 10589 | 23560 | 11006 |
| 40° | 9190 | 22249 | 9963 |
| 45° | 8205 | 20586 | 9118 |
| 50° | 7571 | 18959 | 8383 |
| 55° | 6794 | 17315 | 7983 |
| 60° | 5425 | 15589 | 7185 |
| 65° | 4971 | 14003 | 6630 |
| 70° | 4567 | 12369 | 6304 |
| 75° | 4165 | 10826 | 5969 |
| 80° | 3620 | 8995 | 5583 |
| 85° | 2885 | 7212 | 5158 |



TEST NUMBER: P243264

CATALOG NUMBER: S122RDR-H675D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.4 | 5.6 |
| 10°-20° | 373.2 | 15.4 |
| 20°-30° | 470.4 | 19.4 |
| 30°-40° | 451.6 | 18.6 |
| 40°-50° | 388.9 | 16.0 |
| 50°-60° | 297.3 | 12.2 |
| 60°-70° | 189.2 | 7.8 |
| 70°-80° | 95.9 | 3.9 |
| 80°-90° | 25.3 | 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° | 979.9 | 40.4 |
| 0°-40° | 1431.5 | 59.0 |
| 0°-60° | 2117.8 | 87.2 |
| 0°-90° | 2428.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2428.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1441 | 1441 | 1441 | 1441 | 1441 | |
| 5° | 1589 | 1533 | 1445 | 1319 | 1290 | 155 |
| 15° | 1645 | 1649 | 1375 | 1053 | 901 | 446 |
| 25° | 837 | 1374 | 1223 | 734 | 636 | 400 |
| 35° | 455 | 754 | 1013 | 546 | 473 | 287 |
| 45° | 305 | 422 | 764 | 404 | 338 | 237 |
| 55° | 205 | 257 | 521 | 281 | 240 | 180 |
| 65° | 110 | 142 | 311 | 173 | 147 | 110 |
| 75° | 57 | 64 | 147 | 89 | 81 | 60 |
| 85° | 13 | 16 | 33 | 25 | 24 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243264

CATALOG NUMBER: S122RDR-H675D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 |
| 2.5° | 1517.2 | 1519.1 | 1520.0 | 1517.6 | 1512.5 | 1512.9 | 1508.2 | 1500.2 | 1490.3 | 1481.3 | 1486.5 |
| 5° | 1588.8 | 1591.2 | 1590.7 | 1586.5 | 1581.3 | 1576.6 | 1568.6 | 1557.2 | 1545.5 | 1533.2 | 1530.8 |
| 7.5° | 1654.8 | 1660.0 | 1658.6 | 1650.6 | 1646.8 | 1640.2 | 1626.5 | 1613.8 | 1595.9 | 1578.5 | 1571.4 |
| 10° | 1692.6 | 1696.8 | 1694.4 | 1692.6 | 1688.3 | 1681.7 | 1669.4 | 1657.2 | 1637.4 | 1619.0 | 1608.6 |
| 12.5° | 1689.7 | 1693.5 | 1695.4 | 1697.3 | 1695.9 | 1693.5 | 1688.3 | 1677.9 | 1661.9 | 1644.9 | 1631.7 |
| 15° | 1645.4 | 1639.3 | 1635.0 | 1646.8 | 1651.1 | 1667.1 | 1670.9 | 1672.3 | 1661.4 | 1648.7 | 1645.4 |
| 17.5° | 1510.6 | 1512.5 | 1545.0 | 1539.8 | 1546.9 | 1586.0 | 1601.6 | 1622.8 | 1631.7 | 1628.9 | 1634.6 |
| 20° | 1350.3 | 1328.1 | 1344.1 | 1367.7 | 1389.9 | 1446.9 | 1484.6 | 1518.1 | 1556.8 | 1578.5 | 1599.2 |
| 22.5° | 1071.2 | 1071.6 | 1110.3 | 1149.0 | 1198.9 | 1260.7 | 1318.2 | 1382.3 | 1451.2 | 1493.1 | 1541.7 |
| 25° | 837.3 | 859.9 | 876.9 | 893.9 | 966.5 | 1025.9 | 1121.6 | 1199.4 | 1294.2 | 1373.8 | 1455.4 |
| 27.5° | 677.0 | 700.6 | 703.4 | 741.6 | 784.5 | 832.6 | 895.3 | 1017.9 | 1115.0 | 1231.9 | 1332.8 |
| 30° | 578.0 | 582.7 | 592.6 | 602.5 | 634.1 | 678.9 | 746.3 | 823.2 | 931.1 | 1064.6 | 1199.9 |
| 32.5° | 506.4 | 505.4 | 515.3 | 530.9 | 548.3 | 578.5 | 616.7 | 680.3 | 777.9 | 884.0 | 1041.9 |
| 35° | 455.4 | 454.0 | 461.1 | 466.7 | 477.1 | 501.6 | 536.1 | 578.0 | 648.3 | 753.9 | 876.4 |
| 37.5° | 407.3 | 410.2 | 414.4 | 420.5 | 434.2 | 449.8 | 472.9 | 507.8 | 563.4 | 633.2 | 750.6 |
| 40° | 369.6 | 372.9 | 377.6 | 381.9 | 392.3 | 405.0 | 420.5 | 448.4 | 485.6 | 546.4 | 636.5 |
| 42.5° | 335.7 | 337.1 | 340.9 | 347.0 | 354.5 | 365.9 | 380.9 | 402.2 | 433.3 | 475.7 | 554.4 |
| 45° | 304.6 | 304.6 | 308.8 | 314.5 | 319.2 | 330.0 | 341.8 | 362.1 | 386.1 | 422.4 | 478.5 |
| 47.5° | 278.2 | 278.6 | 281.0 | 281.9 | 287.1 | 297.0 | 309.8 | 325.8 | 345.6 | 373.4 | 425.7 |
| 50° | 255.5 | 257.4 | 258.4 | 259.8 | 261.7 | 266.8 | 275.8 | 288.1 | 309.8 | 334.3 | 369.2 |
| 52.5° | 232.0 | 234.3 | 236.2 | 239.0 | 241.9 | 242.3 | 248.9 | 256.9 | 272.0 | 297.5 | 325.8 |
| 55° | 204.6 | 206.5 | 210.3 | 212.6 | 216.4 | 219.7 | 224.9 | 230.5 | 240.4 | 257.4 | 286.6 |
| 57.5° | 173.5 | 174.0 | 177.7 | 180.1 | 187.6 | 195.2 | 199.9 | 206.0 | 213.1 | 224.9 | 247.0 |
| 60° | 142.4 | 143.8 | 144.3 | 146.2 | 152.8 | 160.8 | 170.2 | 179.6 | 187.2 | 197.5 | 213.1 |
| 62.5° | 125.4 | 125.9 | 127.3 | 129.2 | 129.7 | 133.4 | 136.3 | 147.6 | 160.8 | 171.1 | 181.5 |
| 65° | 110.3 | 110.8 | 110.8 | 112.2 | 114.1 | 116.0 | 117.4 | 121.6 | 127.3 | 141.9 | 154.6 |
| 67.5° | 96.2 | 95.7 | 96.6 | 98.1 | 98.5 | 100.0 | 102.3 | 104.7 | 108.4 | 112.7 | 125.9 |
| 70° | 82.0 | 82.0 | 81.6 | 83.0 | 84.4 | 84.9 | 86.3 | 88.6 | 91.0 | 94.8 | 99.0 |
| 72.5° | 67.9 | 68.8 | 68.8 | 69.8 | 70.2 | 72.1 | 73.1 | 74.0 | 77.3 | 79.2 | 82.5 |
| 75° | 56.6 | 56.1 | 57.5 | 57.0 | 58.0 | 58.5 | 59.9 | 61.3 | 62.2 | 64.1 | 66.9 |
| 77.5° | 45.3 | 44.3 | 45.3 | 44.8 | 45.7 | 46.7 | 46.7 | 48.1 | 49.0 | 50.9 | 52.3 |
| 80° | 33.0 | 33.0 | 33.5 | 34.4 | 34.4 | 34.9 | 35.8 | 35.4 | 37.2 | 37.7 | 39.1 |
| 82.5° | 22.6 | 23.1 | 23.1 | 23.6 | 23.6 | 23.6 | 24.5 | 24.5 | 25.0 | 25.9 | 26.4 |
| 85° | 13.2 | 12.7 | 13.2 | 13.2 | 13.2 | 13.7 | 14.1 | 13.7 | 14.6 | 15.6 | 15.6 |
| 87.5° | 3.8 | 3.8 | 4.2 | 4.7 | 4.7 | 5.2 | 5.2 | 5.2 | 5.7 | 5.7 | 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: P243264

CATALOG NUMBER: S122RDR-H675D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 |
| 2.5° | 1486.5 | 1484.2 | 1478.0 | 1472.4 | 1462.0 | 1453.5 | 1450.7 | 1451.2 | 1438.4 | 1425.2 | 1421.5 |
| 5° | 1527.5 | 1519.1 | 1506.8 | 1494.1 | 1478.5 | 1462.9 | 1453.0 | 1445.0 | 1425.2 | 1405.4 | 1394.1 |
| 7.5° | 1561.5 | 1547.8 | 1529.9 | 1509.6 | 1489.3 | 1466.2 | 1450.2 | 1435.1 | 1407.8 | 1380.9 | 1366.3 |
| 10° | 1592.6 | 1573.3 | 1548.8 | 1522.4 | 1495.5 | 1465.3 | 1442.2 | 1418.6 | 1384.2 | 1354.0 | 1329.1 |
| 12.5° | 1622.3 | 1591.7 | 1566.7 | 1528.5 | 1498.8 | 1457.8 | 1426.2 | 1398.8 | 1358.3 | 1320.6 | 1292.8 |
| 15° | 1625.1 | 1603.4 | 1570.0 | 1530.4 | 1485.1 | 1446.9 | 1407.3 | 1375.3 | 1329.1 | 1287.1 | 1239.5 |
| 17.5° | 1624.7 | 1607.7 | 1572.8 | 1532.3 | 1478.0 | 1428.1 | 1385.2 | 1343.2 | 1290.4 | 1241.4 | 1200.3 |
| 20° | 1607.7 | 1595.9 | 1565.7 | 1517.6 | 1462.9 | 1405.4 | 1357.8 | 1308.3 | 1246.5 | 1196.1 | 1151.3 |
| 22.5° | 1567.6 | 1570.4 | 1546.9 | 1504.0 | 1445.0 | 1380.9 | 1325.8 | 1268.7 | 1205.5 | 1147.5 | 1091.0 |
| 25° | 1499.7 | 1529.9 | 1522.8 | 1482.7 | 1420.0 | 1349.8 | 1287.1 | 1223.0 | 1155.1 | 1093.3 | 1041.0 |
| 27.5° | 1415.3 | 1471.9 | 1484.2 | 1453.0 | 1393.2 | 1314.4 | 1243.2 | 1173.5 | 1104.2 | 1037.7 | 983.9 |
| 30° | 1315.4 | 1399.8 | 1430.9 | 1413.9 | 1358.8 | 1276.2 | 1193.7 | 1125.4 | 1049.5 | 978.8 | 922.2 |
| 32.5° | 1189.5 | 1307.8 | 1362.5 | 1367.7 | 1322.5 | 1233.8 | 1142.4 | 1068.8 | 991.0 | 924.1 | 863.2 |
| 35° | 1049.0 | 1194.2 | 1283.3 | 1307.4 | 1274.8 | 1187.1 | 1091.0 | 1013.2 | 930.2 | 862.8 | 801.5 |
| 37.5° | 907.6 | 1078.2 | 1195.2 | 1241.8 | 1220.1 | 1135.3 | 1033.4 | 954.7 | 872.7 | 803.8 | 746.3 |
| 40° | 777.4 | 939.6 | 1091.4 | 1164.5 | 1157.9 | 1079.2 | 976.4 | 894.8 | 811.4 | 747.7 | 684.6 |
| 42.5° | 661.0 | 817.5 | 984.4 | 1082.5 | 1087.7 | 1018.8 | 913.7 | 831.7 | 751.5 | 688.3 | 622.3 |
| 45° | 569.1 | 706.7 | 872.2 | 989.1 | 1011.8 | 955.2 | 848.6 | 764.2 | 691.2 | 631.8 | 565.8 |
| 47.5° | 495.5 | 602.5 | 756.2 | 893.4 | 933.5 | 884.0 | 782.2 | 702.0 | 633.2 | 582.3 | 520.0 |
| 50° | 431.9 | 532.3 | 662.9 | 789.7 | 848.6 | 811.4 | 716.2 | 639.8 | 577.5 | 528.5 | 473.8 |
| 52.5° | 375.3 | 453.1 | 566.2 | 687.9 | 767.1 | 733.1 | 652.0 | 581.8 | 523.3 | 477.6 | 431.9 |
| 55° | 328.6 | 393.7 | 493.6 | 602.1 | 675.1 | 656.3 | 584.1 | 521.4 | 470.0 | 426.7 | 389.4 |
| 57.5° | 280.5 | 335.2 | 415.8 | 512.5 | 584.1 | 581.3 | 521.9 | 461.6 | 421.0 | 380.0 | 353.1 |
| 60° | 238.6 | 282.9 | 348.4 | 430.4 | 502.6 | 503.1 | 456.8 | 409.2 | 374.3 | 339.0 | 313.5 |
| 62.5° | 201.3 | 236.7 | 293.7 | 359.7 | 417.2 | 431.9 | 397.4 | 356.0 | 327.7 | 300.3 | 278.6 |
| 65° | 169.3 | 195.7 | 238.6 | 298.4 | 343.7 | 363.5 | 340.9 | 310.7 | 287.1 | 262.6 | 243.3 |
| 67.5° | 139.6 | 158.9 | 190.5 | 237.6 | 282.9 | 297.5 | 288.1 | 265.0 | 248.0 | 227.7 | 213.1 |
| 70° | 109.9 | 126.4 | 148.5 | 183.9 | 221.1 | 241.4 | 238.6 | 222.1 | 207.9 | 193.3 | 179.6 |
| 72.5° | 87.2 | 96.6 | 113.6 | 139.1 | 168.8 | 191.4 | 192.4 | 183.9 | 172.1 | 159.8 | 150.9 |
| 75° | 70.2 | 74.5 | 82.5 | 102.3 | 125.9 | 144.7 | 151.3 | 147.1 | 137.7 | 130.1 | 124.0 |
| 77.5° | 54.2 | 58.0 | 63.2 | 72.6 | 91.0 | 105.6 | 113.6 | 114.1 | 108.4 | 101.8 | 97.1 |
| 80° | 40.5 | 42.0 | 45.7 | 50.4 | 59.9 | 72.6 | 82.0 | 82.0 | 78.7 | 75.4 | 72.6 |
| 82.5° | 27.8 | 29.2 | 31.1 | 33.5 | 38.2 | 45.7 | 54.2 | 55.6 | 53.7 | 52.8 | 49.0 |
| 85° | 15.6 | 17.0 | 17.9 | 19.3 | 21.2 | 25.0 | 31.1 | 33.0 | 33.5 | 30.6 | 28.8 |
| 87.5° | 6.1 | 6.1 | 6.6 | 7.1 | 7.5 | 9.0 | 11.3 | 14.1 | 14.1 | 12.7 | 12.3 |
| 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: P243264

CATALOG NUMBER: S122RDR-H675D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 | 1440.8 |
| 2.5° | 1416.7 | 1410.1 | 1401.7 | 1394.1 | 1383.7 | 1373.4 | 1371.5 | 1375.3 | 1376.2 | 1371.5 | 1372.9 |
| 5° | 1383.3 | 1371.0 | 1360.6 | 1343.7 | 1332.8 | 1318.7 | 1309.3 | 1309.3 | 1309.3 | 1302.2 | 1295.6 |
| 7.5° | 1348.4 | 1331.9 | 1312.1 | 1296.1 | 1273.9 | 1255.5 | 1246.5 | 1242.3 | 1233.8 | 1226.7 | 1218.7 |
| 10° | 1307.8 | 1284.7 | 1260.2 | 1235.2 | 1215.9 | 1190.4 | 1175.4 | 1165.9 | 1151.3 | 1145.2 | 1133.4 |
| 12.5° | 1260.2 | 1237.1 | 1207.4 | 1166.9 | 1161.2 | 1130.1 | 1108.9 | 1091.4 | 1073.5 | 1058.9 | 1053.7 |
| 15° | 1222.0 | 1182.0 | 1142.4 | 1113.6 | 1071.6 | 1053.2 | 1022.1 | 1019.3 | 1004.7 | 961.8 | 928.3 |
| 17.5° | 1160.3 | 1124.4 | 1080.6 | 1048.5 | 1015.1 | 974.0 | 941.0 | 908.5 | 877.4 | 847.2 | 846.3 |
| 20° | 1105.6 | 1063.6 | 1022.1 | 987.2 | 928.8 | 870.3 | 850.0 | 820.3 | 802.0 | 777.9 | 770.8 |
| 22.5° | 1045.7 | 1001.9 | 950.0 | 899.1 | 830.7 | 793.9 | 771.8 | 748.2 | 729.8 | 719.0 | 708.1 |
| 25° | 985.4 | 941.5 | 872.7 | 810.0 | 763.3 | 734.5 | 715.7 | 690.2 | 677.0 | 667.6 | 653.4 |
| 27.5° | 926.4 | 870.8 | 798.2 | 748.2 | 710.5 | 678.0 | 661.0 | 640.2 | 625.6 | 613.4 | 604.4 |
| 30° | 868.0 | 791.6 | 729.8 | 691.2 | 652.5 | 632.2 | 610.1 | 594.5 | 583.7 | 572.4 | 557.7 |
| 32.5° | 803.8 | 723.7 | 683.6 | 636.0 | 613.4 | 584.1 | 568.1 | 552.1 | 537.9 | 529.9 | 524.7 |
| 35° | 729.4 | 664.8 | 628.9 | 594.0 | 565.3 | 546.0 | 523.3 | 513.4 | 505.9 | 490.3 | 483.7 |
| 37.5° | 666.2 | 619.5 | 581.8 | 550.7 | 524.3 | 503.5 | 493.1 | 476.2 | 465.3 | 460.1 | 453.1 |
| 40° | 613.8 | 572.4 | 539.8 | 508.2 | 486.1 | 471.0 | 452.6 | 443.6 | 429.5 | 424.3 | 418.7 |
| 42.5° | 568.6 | 530.4 | 496.4 | 472.4 | 453.1 | 432.3 | 422.9 | 407.8 | 401.7 | 389.0 | 384.2 |
| 45° | 522.9 | 488.9 | 459.2 | 435.6 | 417.2 | 404.5 | 387.5 | 378.1 | 367.3 | 360.7 | 347.9 |
| 47.5° | 477.1 | 446.9 | 422.4 | 402.6 | 386.6 | 371.0 | 356.9 | 348.9 | 335.2 | 328.1 | 321.5 |
| 50° | 441.8 | 412.5 | 389.4 | 369.6 | 353.1 | 337.6 | 328.6 | 315.4 | 303.2 | 295.1 | 292.8 |
| 52.5° | 399.8 | 374.3 | 353.1 | 338.0 | 321.5 | 310.2 | 298.0 | 283.3 | 277.2 | 269.2 | 267.3 |
| 55° | 362.6 | 341.8 | 323.9 | 307.9 | 293.7 | 281.0 | 266.8 | 256.5 | 251.8 | 248.0 | 245.2 |
| 57.5° | 327.7 | 307.9 | 291.4 | 276.7 | 264.5 | 251.3 | 239.5 | 233.4 | 229.1 | 224.9 | 222.1 |
| 60° | 293.2 | 275.3 | 260.2 | 248.0 | 235.3 | 222.5 | 214.0 | 208.9 | 205.6 | 199.4 | 197.5 |
| 62.5° | 262.6 | 246.1 | 230.5 | 219.2 | 207.4 | 197.5 | 190.5 | 183.4 | 178.2 | 173.5 | 163.6 |
| 65° | 229.1 | 214.5 | 202.7 | 191.4 | 180.1 | 172.6 | 164.5 | 156.5 | 149.9 | 149.9 | 149.9 |
| 67.5° | 199.4 | 186.7 | 174.4 | 164.5 | 154.6 | 145.7 | 137.7 | 137.2 | 134.8 | 133.9 | 132.5 |
| 70° | 169.3 | 160.3 | 149.0 | 138.1 | 128.2 | 124.0 | 122.6 | 120.2 | 117.4 | 116.9 | 115.0 |
| 72.5° | 141.9 | 131.5 | 121.2 | 111.7 | 109.9 | 108.0 | 105.1 | 102.8 | 100.9 | 99.5 | 98.5 |
| 75° | 116.0 | 105.6 | 97.1 | 94.8 | 92.4 | 89.1 | 86.7 | 84.9 | 83.9 | 83.9 | 83.4 |
| 77.5° | 88.6 | 82.5 | 78.7 | 75.0 | 73.1 | 71.2 | 69.8 | 68.8 | 67.4 | 67.9 | 66.9 |
| 80° | 65.1 | 63.2 | 59.9 | 57.5 | 56.6 | 54.7 | 53.7 | 53.3 | 52.3 | 52.3 | 51.9 |
| 82.5° | 46.7 | 43.4 | 42.0 | 40.5 | 39.6 | 38.7 | 39.1 | 38.7 | 38.2 | 37.7 | 38.2 |
| 85° | 26.9 | 26.4 | 25.5 | 25.5 | 25.5 | 25.0 | 25.0 | 25.0 | 24.5 | 24.0 | 24.0 |
| 87.5° | 11.8 | 12.3 | 12.3 | 11.3 | 12.7 | 12.7 | 12.3 | 12.3 | 11.8 | 12.7 | 11.8 |
| 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: P243264

CATALOG NUMBER: S122RDR-H675D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1440.8 | 1440.8 | 1440.8 | 1440.8 |
| 2.5° | 1366.8 | 1366.3 | 1363.5 | 1358.8 |
| 5° | 1292.8 | 1290.9 | 1286.1 | 1289.9 |
| 7.5° | 1213.5 | 1208.4 | 1203.6 | 1206.0 |
| 10° | 1128.7 | 1126.8 | 1124.0 | 1118.3 |
| 12.5° | 1034.9 | 1042.4 | 1034.4 | 1052.3 |
| 15° | 895.8 | 929.3 | 887.3 | 901.4 |
| 17.5° | 826.5 | 826.9 | 821.3 | 814.7 |
| 20° | 761.4 | 744.9 | 751.0 | 740.2 |
| 22.5° | 698.7 | 694.9 | 693.0 | 689.3 |
| 25° | 642.6 | 635.5 | 633.2 | 635.5 |
| 27.5° | 601.1 | 597.8 | 588.9 | 587.4 |
| 30° | 549.3 | 547.8 | 545.0 | 544.1 |
| 32.5° | 516.7 | 510.6 | 509.2 | 503.5 |
| 35° | 480.4 | 477.1 | 474.8 | 473.3 |
| 37.5° | 444.1 | 442.2 | 438.0 | 440.3 |
| 40° | 414.4 | 405.0 | 401.2 | 400.7 |
| 42.5° | 381.9 | 376.7 | 369.2 | 366.8 |
| 45° | 344.2 | 341.8 | 339.5 | 338.5 |
| 47.5° | 311.2 | 309.8 | 306.9 | 305.5 |
| 50° | 287.6 | 283.8 | 283.3 | 282.9 |
| 52.5° | 265.0 | 263.5 | 262.1 | 264.0 |
| 55° | 243.7 | 241.9 | 240.4 | 240.4 |
| 57.5° | 220.6 | 217.3 | 214.5 | 215.0 |
| 60° | 193.8 | 191.9 | 189.5 | 188.6 |
| 62.5° | 162.7 | 162.7 | 162.2 | 162.2 |
| 65° | 148.0 | 147.1 | 146.6 | 147.1 |
| 67.5° | 132.0 | 131.1 | 129.7 | 130.1 |
| 70° | 113.6 | 113.2 | 113.6 | 113.2 |
| 72.5° | 97.1 | 96.6 | 97.1 | 98.1 |
| 75° | 82.0 | 81.6 | 81.1 | 81.1 |
| 77.5° | 66.5 | 66.0 | 65.1 | 66.0 |
| 80° | 51.9 | 51.4 | 50.9 | 50.9 |
| 82.5° | 36.8 | 37.2 | 36.8 | 36.8 |
| 85° | 24.0 | 24.5 | 24.0 | 23.6 |
| 87.5° | 12.3 | 12.7 | 11.8 | 11.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)