

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: P242656

Luminaire Tested: **S124DR-S1020D935-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-S1020D935-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3657.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

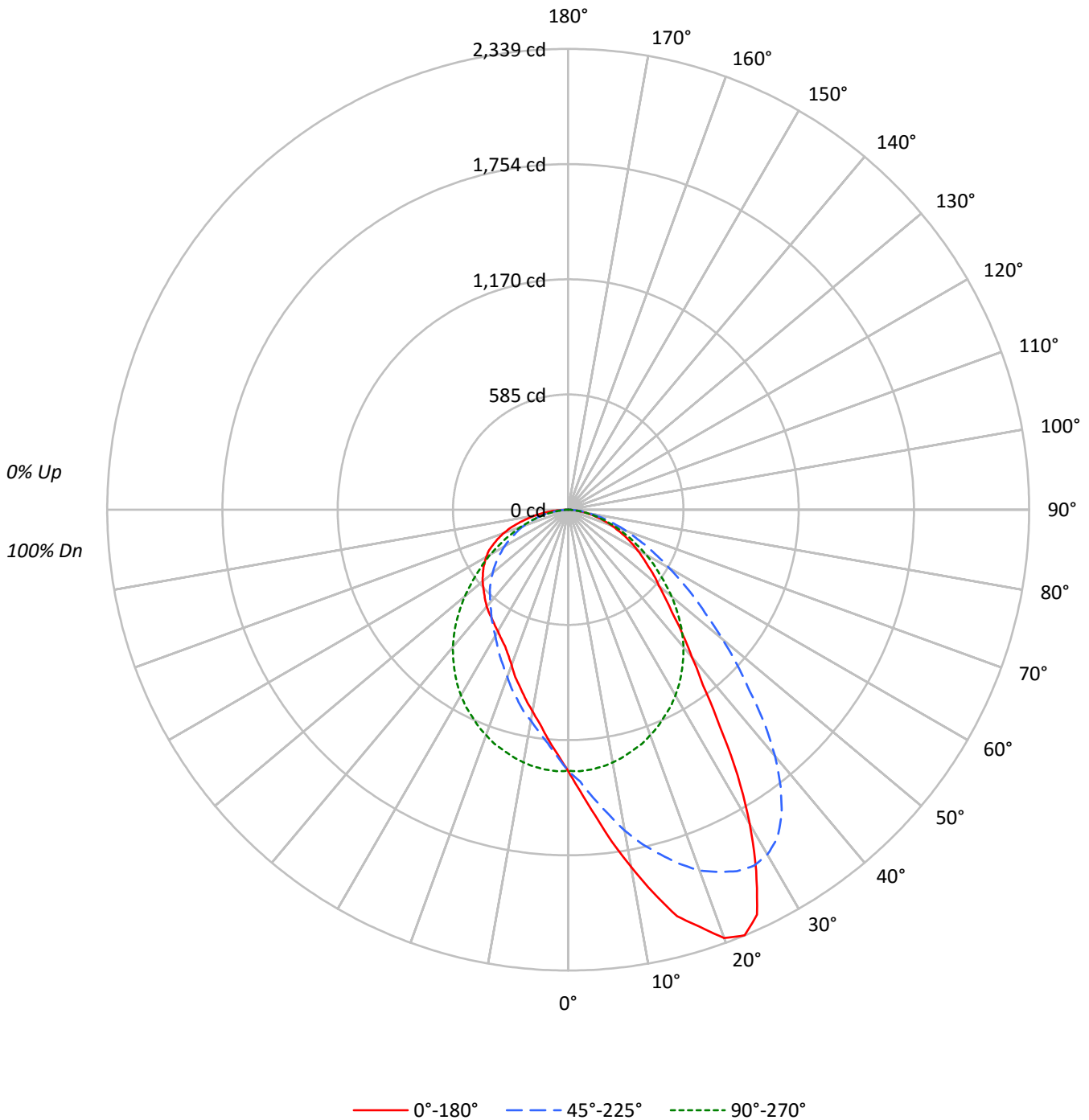
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242656

CATALOG NUMBER: S124DR-S1020D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242656

CATALOG NUMBER: S124DR-S1020D935-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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 11780 | 11780 | 11780 |
| 5° | 13873 | 11810 | 10425 |
| 10° | 16610 | 11759 | 9385 |
| 15° | 19653 | 11640 | 8619 |
| 20° | 21884 | 11519 | 7935 |
| 25° | 22238 | 11340 | 7463 |
| 30° | 18922 | 11168 | 7314 |
| 35° | 14548 | 10890 | 7316 |
| 40° | 11339 | 10562 | 7453 |
| 45° | 9455 | 10069 | 7578 |
| 50° | 8321 | 9467 | 7835 |
| 55° | 7623 | 8747 | 8150 |
| 60° | 7145 | 8101 | 8530 |
| 65° | 6651 | 7378 | 8844 |
| 70° | 6079 | 6664 | 9047 |
| 75° | 5430 | 5863 | 8936 |
| 80° | 4551 | 4807 | 8656 |
| 85° | 3355 | 3468 | 8292 |



TEST NUMBER: P242656

CATALOG NUMBER: S124DR-S1020D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.0 | 3.5 |
| 10°-20° | 398.1 | 10.9 |
| 20°-30° | 632.5 | 17.3 |
| 30°-40° | 702.7 | 19.2 |
| 40°-50° | 639.1 | 17.5 |
| 50°-60° | 522.2 | 14.3 |
| 60°-70° | 372.8 | 10.2 |
| 70°-80° | 205.1 | 5.6 |
| 80°-90° | 55.4 | 1.5 |
| 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° | 1159.5 | 31.7 |
| 0°-40° | 1862.3 | 50.9 |
| 0°-60° | 3023.6 | 82.7 |
| 0°-90° | 3657.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3657.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1325 | 1325 | 1325 | 1325 | 1325 | |
| 5° | 1555 | 1469 | 1324 | 1190 | 1168 | 157 |
| 15° | 2136 | 1812 | 1265 | 997 | 937 | 604 |
| 25° | 2267 | 2024 | 1156 | 820 | 761 | 1006 |
| 35° | 1341 | 1888 | 1004 | 677 | 674 | 849 |
| 45° | 752 | 1303 | 801 | 561 | 603 | 591 |
| 55° | 492 | 784 | 564 | 439 | 526 | 444 |
| 65° | 316 | 437 | 351 | 305 | 420 | 313 |
| 75° | 158 | 204 | 171 | 170 | 260 | 168 |
| 85° | 33 | 42 | 34 | 48 | 81 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242656

CATALOG NUMBER: S124DR-S1020D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 |
| 2.5° | 1431.8 | 1431.2 | 1425.7 | 1424.6 | 1420.8 | 1415.9 | 1414.8 | 1406.0 | 1388.4 | 1380.2 | 1378.0 |
| 5° | 1554.8 | 1565.7 | 1551.5 | 1548.7 | 1547.1 | 1529.0 | 1519.6 | 1508.6 | 1483.4 | 1468.6 | 1457.0 |
| 7.5° | 1698.6 | 1699.1 | 1693.1 | 1687.1 | 1676.6 | 1661.3 | 1640.4 | 1616.2 | 1587.1 | 1557.5 | 1536.6 |
| 10° | 1840.2 | 1844.6 | 1837.5 | 1836.4 | 1808.4 | 1790.8 | 1755.7 | 1726.0 | 1692.0 | 1654.1 | 1619.5 |
| 12.5° | 1989.6 | 1980.8 | 1978.0 | 1948.9 | 1949.5 | 1913.8 | 1871.5 | 1840.8 | 1783.7 | 1738.7 | 1689.8 |
| 15° | 2135.6 | 2123.5 | 2115.8 | 2083.4 | 2067.5 | 2023.1 | 1979.7 | 1946.2 | 1877.6 | 1812.2 | 1762.8 |
| 17.5° | 2220.1 | 2235.0 | 2215.2 | 2202.0 | 2158.7 | 2129.6 | 2086.2 | 2017.6 | 1966.5 | 1885.3 | 1828.7 |
| 20° | 2313.5 | 2314.6 | 2304.7 | 2291.0 | 2258.6 | 2219.0 | 2170.7 | 2093.9 | 2029.6 | 1948.9 | 1863.3 |
| 22.5° | 2338.7 | 2338.7 | 2336.0 | 2323.4 | 2300.8 | 2270.7 | 2221.8 | 2160.9 | 2079.6 | 1990.1 | 1904.5 |
| 25° | 2267.4 | 2265.2 | 2270.1 | 2284.4 | 2275.0 | 2265.2 | 2237.2 | 2189.4 | 2116.9 | 2024.2 | 1931.9 |
| 27.5° | 2065.3 | 2079.6 | 2109.2 | 2144.4 | 2169.6 | 2192.1 | 2190.5 | 2170.2 | 2118.6 | 2038.4 | 1940.2 |
| 30° | 1843.5 | 1862.2 | 1883.1 | 1918.2 | 1986.3 | 2025.2 | 2068.1 | 2100.5 | 2082.3 | 2021.4 | 1931.4 |
| 32.5° | 1599.8 | 1600.9 | 1634.4 | 1675.5 | 1736.5 | 1820.5 | 1894.6 | 1968.7 | 2000.5 | 1975.8 | 1904.5 |
| 35° | 1340.7 | 1348.3 | 1381.8 | 1421.4 | 1497.7 | 1589.3 | 1691.5 | 1782.6 | 1857.8 | 1888.0 | 1849.6 |
| 37.5° | 1123.2 | 1147.4 | 1172.7 | 1217.7 | 1287.4 | 1370.3 | 1480.1 | 1593.7 | 1704.1 | 1771.1 | 1778.2 |
| 40° | 977.2 | 990.9 | 1008.0 | 1040.3 | 1097.4 | 1178.7 | 1269.8 | 1404.9 | 1524.0 | 1631.6 | 1666.8 |
| 42.5° | 861.9 | 868.5 | 877.3 | 905.8 | 945.9 | 1026.6 | 1107.9 | 1222.6 | 1342.3 | 1476.3 | 1541.0 |
| 45° | 752.1 | 760.4 | 777.9 | 794.9 | 827.9 | 883.9 | 961.3 | 1059.0 | 1179.2 | 1303.3 | 1412.0 |
| 47.5° | 669.8 | 675.3 | 686.2 | 704.9 | 734.6 | 772.4 | 838.3 | 921.2 | 1038.7 | 1158.9 | 1275.3 |
| 50° | 601.7 | 606.1 | 614.3 | 630.8 | 652.2 | 685.1 | 736.8 | 813.1 | 900.4 | 1021.7 | 1135.3 |
| 52.5° | 547.9 | 549.0 | 554.5 | 564.4 | 580.3 | 606.6 | 646.7 | 706.6 | 786.2 | 891.0 | 1004.1 |
| 55° | 491.9 | 494.1 | 499.6 | 507.8 | 522.6 | 540.2 | 572.6 | 619.8 | 690.6 | 784.5 | 882.8 |
| 57.5° | 445.8 | 448.0 | 452.4 | 455.7 | 468.8 | 483.7 | 510.0 | 544.1 | 599.5 | 683.0 | 772.4 |
| 60° | 401.9 | 400.8 | 406.3 | 409.0 | 417.2 | 429.3 | 448.5 | 480.9 | 527.6 | 591.8 | 672.5 |
| 62.5° | 359.0 | 357.4 | 361.8 | 365.6 | 369.5 | 379.4 | 394.2 | 417.8 | 453.5 | 510.0 | 577.0 |
| 65° | 316.2 | 314.0 | 316.8 | 321.2 | 325.6 | 331.0 | 342.6 | 365.1 | 395.3 | 437.0 | 490.3 |
| 67.5° | 272.3 | 275.0 | 275.0 | 277.8 | 280.5 | 288.2 | 296.5 | 314.0 | 335.4 | 369.5 | 416.7 |
| 70° | 233.9 | 234.4 | 236.6 | 236.6 | 238.3 | 244.9 | 251.4 | 260.8 | 281.6 | 312.4 | 349.2 |
| 72.5° | 195.4 | 198.2 | 196.5 | 198.7 | 199.8 | 203.7 | 208.1 | 216.9 | 233.9 | 254.7 | 284.4 |
| 75° | 158.1 | 159.8 | 159.8 | 160.3 | 162.0 | 163.6 | 167.4 | 174.0 | 186.7 | 203.7 | 225.1 |
| 77.5° | 121.9 | 121.9 | 123.0 | 125.2 | 125.2 | 127.9 | 131.2 | 136.2 | 143.3 | 155.9 | 169.6 |
| 80° | 88.9 | 90.0 | 89.5 | 90.6 | 90.6 | 92.8 | 93.9 | 100.5 | 103.2 | 110.9 | 121.3 |
| 82.5° | 59.3 | 60.4 | 60.4 | 62.0 | 63.1 | 63.1 | 64.8 | 66.4 | 69.2 | 75.8 | 78.5 |
| 85° | 32.9 | 34.0 | 32.9 | 34.0 | 35.7 | 36.2 | 37.9 | 38.4 | 40.6 | 42.3 | 46.1 |
| 87.5° | 12.1 | 13.7 | 13.7 | 14.3 | 15.4 | 15.9 | 16.5 | 15.9 | 18.1 | 18.7 | 20.9 |
| 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: P242656

CATALOG NUMBER: S124DR-S1020D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 |
| 2.5° | 1378.5 | 1370.8 | 1365.4 | 1361.0 | 1348.9 | 1341.7 | 1336.3 | 1328.6 | 1319.8 | 1310.5 | 1298.9 |
| 5° | 1445.5 | 1426.8 | 1413.1 | 1392.3 | 1372.5 | 1356.0 | 1339.0 | 1323.6 | 1305.0 | 1284.7 | 1269.8 |
| 7.5° | 1514.1 | 1488.3 | 1453.7 | 1426.8 | 1394.5 | 1366.5 | 1341.7 | 1315.9 | 1288.5 | 1262.1 | 1237.4 |
| 10° | 1578.9 | 1543.2 | 1503.7 | 1457.0 | 1413.1 | 1374.1 | 1337.9 | 1302.8 | 1268.7 | 1234.7 | 1205.6 |
| 12.5° | 1648.6 | 1602.0 | 1538.8 | 1482.3 | 1431.8 | 1376.3 | 1330.8 | 1285.8 | 1242.9 | 1206.7 | 1171.6 |
| 15° | 1709.6 | 1645.3 | 1577.8 | 1504.8 | 1440.0 | 1379.1 | 1319.2 | 1264.9 | 1218.8 | 1171.6 | 1138.6 |
| 17.5° | 1748.0 | 1668.4 | 1595.9 | 1519.6 | 1445.0 | 1368.6 | 1306.6 | 1245.7 | 1188.6 | 1142.5 | 1101.3 |
| 20° | 1785.9 | 1706.8 | 1610.8 | 1534.4 | 1441.1 | 1362.1 | 1287.4 | 1217.7 | 1157.3 | 1107.3 | 1064.5 |
| 22.5° | 1818.8 | 1724.4 | 1628.3 | 1521.8 | 1429.0 | 1343.9 | 1260.5 | 1190.2 | 1128.2 | 1074.9 | 1034.3 |
| 25° | 1826.5 | 1721.7 | 1617.3 | 1517.4 | 1412.0 | 1312.7 | 1238.5 | 1156.2 | 1090.3 | 1034.9 | 990.9 |
| 27.5° | 1829.3 | 1718.4 | 1602.5 | 1493.8 | 1385.1 | 1294.5 | 1197.9 | 1126.0 | 1057.9 | 999.2 | 957.5 |
| 30° | 1823.2 | 1706.3 | 1579.5 | 1459.2 | 1350.0 | 1249.5 | 1168.3 | 1088.1 | 1018.4 | 960.2 | 916.3 |
| 32.5° | 1804.0 | 1681.0 | 1549.8 | 1420.8 | 1306.6 | 1208.9 | 1124.3 | 1049.1 | 981.6 | 924.5 | 877.8 |
| 35° | 1763.4 | 1643.1 | 1504.3 | 1371.9 | 1256.1 | 1156.7 | 1081.0 | 1003.6 | 935.5 | 881.1 | 836.7 |
| 37.5° | 1709.0 | 1597.0 | 1455.9 | 1318.1 | 1206.7 | 1105.7 | 1029.4 | 958.0 | 896.5 | 840.5 | 794.4 |
| 40° | 1633.3 | 1537.7 | 1396.1 | 1262.7 | 1139.7 | 1044.7 | 974.5 | 910.2 | 849.3 | 797.1 | 753.8 |
| 42.5° | 1546.0 | 1465.8 | 1337.9 | 1194.6 | 1077.1 | 981.6 | 913.5 | 857.5 | 801.0 | 753.8 | 710.4 |
| 45° | 1438.9 | 1384.0 | 1261.0 | 1130.4 | 1006.9 | 916.8 | 851.5 | 801.0 | 752.7 | 705.5 | 669.2 |
| 47.5° | 1319.8 | 1289.0 | 1182.0 | 1056.8 | 938.2 | 848.2 | 791.7 | 743.3 | 699.4 | 658.2 | 625.9 |
| 50° | 1199.6 | 1186.4 | 1096.9 | 977.2 | 865.2 | 781.8 | 724.7 | 684.6 | 648.4 | 613.2 | 583.0 |
| 52.5° | 1081.0 | 1083.7 | 1005.2 | 898.2 | 796.6 | 717.0 | 660.4 | 623.7 | 593.5 | 566.6 | 540.2 |
| 55° | 959.6 | 975.0 | 911.9 | 814.2 | 721.4 | 648.9 | 597.9 | 564.4 | 542.4 | 518.8 | 498.5 |
| 57.5° | 848.2 | 874.0 | 819.1 | 729.6 | 651.1 | 581.9 | 536.9 | 511.1 | 487.0 | 471.6 | 455.7 |
| 60° | 739.5 | 763.7 | 723.0 | 650.6 | 577.5 | 520.4 | 478.2 | 455.7 | 435.4 | 425.5 | 415.0 |
| 62.5° | 642.9 | 663.7 | 636.3 | 570.4 | 509.5 | 455.1 | 421.1 | 399.7 | 387.6 | 376.6 | 370.6 |
| 65° | 551.7 | 569.9 | 544.1 | 495.2 | 440.8 | 396.9 | 367.8 | 350.8 | 337.6 | 333.2 | 325.6 |
| 67.5° | 461.7 | 478.2 | 464.5 | 421.6 | 375.5 | 340.9 | 317.9 | 299.8 | 292.1 | 287.7 | 282.7 |
| 70° | 383.2 | 399.7 | 384.8 | 348.6 | 315.1 | 287.1 | 265.7 | 256.4 | 248.1 | 246.5 | 238.8 |
| 72.5° | 316.8 | 326.7 | 311.8 | 285.5 | 258.0 | 235.5 | 220.1 | 210.3 | 207.0 | 203.7 | 200.4 |
| 75° | 247.6 | 257.5 | 247.6 | 225.6 | 205.3 | 188.9 | 174.6 | 170.7 | 165.8 | 164.2 | 161.4 |
| 77.5° | 185.6 | 194.9 | 187.2 | 172.4 | 156.5 | 142.7 | 134.5 | 129.0 | 128.5 | 125.2 | 126.3 |
| 80° | 134.0 | 139.4 | 132.3 | 123.0 | 110.9 | 102.1 | 96.6 | 93.9 | 90.6 | 89.5 | 91.7 |
| 82.5° | 86.7 | 88.4 | 85.6 | 80.2 | 71.9 | 67.0 | 63.7 | 60.4 | 60.4 | 60.9 | 60.4 |
| 85° | 50.0 | 49.4 | 48.9 | 43.4 | 40.6 | 36.8 | 34.6 | 34.0 | 33.5 | 34.6 | 35.7 |
| 87.5° | 20.9 | 21.4 | 20.9 | 18.7 | 17.0 | 15.4 | 14.8 | 14.3 | 14.8 | 15.4 | 15.9 |
| 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: P242656

CATALOG NUMBER: S124DR-S1020D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 | 1325.3 |
| 2.5° | 1293.4 | 1288.5 | 1281.4 | 1271.5 | 1263.2 | 1254.5 | 1252.3 | 1249.0 | 1255.6 | 1250.1 | 1248.4 |
| 5° | 1257.2 | 1245.7 | 1230.9 | 1213.8 | 1204.0 | 1189.7 | 1186.9 | 1181.4 | 1176.0 | 1175.4 | 1169.9 |
| 7.5° | 1219.3 | 1203.4 | 1184.7 | 1167.2 | 1151.8 | 1136.4 | 1126.5 | 1125.4 | 1116.7 | 1112.3 | 1106.8 |
| 10° | 1183.1 | 1162.2 | 1139.7 | 1123.2 | 1104.6 | 1088.1 | 1076.6 | 1070.0 | 1064.5 | 1058.5 | 1053.0 |
| 12.5° | 1140.3 | 1117.8 | 1100.2 | 1082.1 | 1059.0 | 1047.5 | 1026.6 | 1014.0 | 1014.0 | 1015.6 | 999.2 |
| 15° | 1109.0 | 1087.0 | 1058.5 | 1033.2 | 1021.1 | 997.0 | 986.5 | 973.4 | 965.1 | 956.9 | 950.3 |
| 17.5° | 1070.5 | 1043.6 | 1021.7 | 993.1 | 970.6 | 952.5 | 938.2 | 931.1 | 917.9 | 905.8 | 897.6 |
| 20° | 1034.9 | 1005.8 | 982.2 | 951.4 | 926.2 | 902.6 | 891.0 | 880.0 | 870.7 | 860.8 | 851.5 |
| 22.5° | 998.6 | 967.9 | 937.7 | 908.0 | 885.0 | 859.7 | 848.7 | 832.8 | 824.0 | 819.7 | 810.3 |
| 25° | 960.2 | 927.3 | 894.3 | 865.8 | 841.6 | 819.7 | 804.8 | 793.3 | 783.4 | 779.0 | 773.0 |
| 27.5° | 918.5 | 886.1 | 854.8 | 821.8 | 793.8 | 777.9 | 765.9 | 756.5 | 750.5 | 743.9 | 741.1 |
| 30° | 878.9 | 844.9 | 810.9 | 780.7 | 755.4 | 739.5 | 728.5 | 722.5 | 718.1 | 715.3 | 712.6 |
| 32.5° | 838.9 | 805.4 | 769.1 | 742.2 | 720.3 | 706.6 | 698.9 | 692.8 | 691.2 | 690.6 | 690.1 |
| 35° | 795.5 | 761.5 | 728.5 | 703.8 | 682.4 | 676.9 | 669.8 | 666.5 | 665.4 | 669.2 | 670.9 |
| 37.5° | 753.8 | 721.9 | 691.2 | 666.5 | 652.2 | 643.4 | 640.7 | 640.1 | 644.0 | 647.3 | 651.1 |
| 40° | 713.7 | 683.0 | 654.4 | 633.5 | 620.4 | 615.4 | 614.3 | 617.1 | 621.5 | 625.3 | 629.7 |
| 42.5° | 674.7 | 644.5 | 619.3 | 600.1 | 591.8 | 587.4 | 588.5 | 591.3 | 597.9 | 602.8 | 609.9 |
| 45° | 634.1 | 608.8 | 583.6 | 567.7 | 560.0 | 561.1 | 561.1 | 566.0 | 572.1 | 579.2 | 586.3 |
| 47.5° | 596.2 | 570.4 | 549.0 | 535.3 | 531.4 | 529.8 | 532.5 | 539.1 | 547.3 | 555.6 | 565.5 |
| 50° | 557.8 | 533.6 | 515.5 | 503.4 | 499.0 | 500.7 | 505.1 | 511.1 | 521.5 | 532.5 | 543.0 |
| 52.5° | 518.8 | 497.4 | 480.9 | 469.9 | 467.2 | 470.5 | 474.9 | 485.3 | 494.1 | 506.2 | 519.4 |
| 55° | 478.2 | 459.5 | 446.3 | 438.1 | 437.0 | 438.6 | 443.6 | 454.0 | 467.2 | 482.0 | 494.1 |
| 57.5° | 438.1 | 422.2 | 409.6 | 403.5 | 404.1 | 405.2 | 412.8 | 425.5 | 438.6 | 454.6 | 469.9 |
| 60° | 397.5 | 383.2 | 373.3 | 368.9 | 369.5 | 372.8 | 382.7 | 394.2 | 411.7 | 427.1 | 443.6 |
| 62.5° | 359.0 | 347.0 | 337.6 | 333.8 | 332.7 | 340.9 | 350.3 | 362.3 | 379.9 | 397.5 | 415.6 |
| 65° | 317.3 | 307.4 | 299.8 | 297.6 | 299.2 | 304.7 | 316.8 | 332.7 | 347.5 | 365.6 | 384.3 |
| 67.5° | 276.7 | 268.5 | 263.0 | 264.1 | 265.7 | 273.4 | 283.8 | 297.6 | 314.0 | 332.7 | 351.9 |
| 70° | 238.3 | 230.6 | 226.2 | 226.7 | 230.0 | 239.9 | 248.7 | 262.4 | 280.5 | 299.8 | 315.1 |
| 72.5° | 198.7 | 194.3 | 190.5 | 193.2 | 196.5 | 202.6 | 214.1 | 227.8 | 243.2 | 260.8 | 277.2 |
| 75° | 158.7 | 158.7 | 156.5 | 158.1 | 163.1 | 169.6 | 177.9 | 192.1 | 208.1 | 222.3 | 235.5 |
| 77.5° | 124.6 | 123.0 | 124.1 | 125.7 | 129.0 | 137.2 | 146.6 | 157.0 | 169.6 | 184.5 | 195.4 |
| 80° | 90.0 | 90.6 | 93.3 | 96.6 | 97.7 | 103.8 | 113.6 | 123.0 | 132.3 | 144.4 | 154.8 |
| 82.5° | 62.0 | 62.6 | 63.7 | 68.1 | 69.2 | 75.8 | 81.3 | 90.6 | 98.8 | 106.0 | 114.2 |
| 85° | 36.8 | 36.8 | 39.5 | 41.2 | 43.9 | 48.3 | 52.2 | 57.6 | 65.3 | 70.8 | 79.1 |
| 87.5° | 17.6 | 17.6 | 19.8 | 20.9 | 22.5 | 25.3 | 26.4 | 32.4 | 34.6 | 37.3 | 42.3 |
| 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: P242656

CATALOG NUMBER: S124DR-S1020D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1325.3 | 1325.3 | 1325.3 | 1325.3 |
| 2.5° | 1247.3 | 1246.2 | 1242.4 | 1241.8 |
| 5° | 1166.6 | 1163.9 | 1162.2 | 1168.3 |
| 7.5° | 1105.7 | 1103.5 | 1098.5 | 1096.9 |
| 10° | 1047.5 | 1045.3 | 1040.9 | 1039.8 |
| 12.5° | 991.5 | 986.5 | 986.5 | 988.2 |
| 15° | 943.2 | 941.0 | 934.9 | 936.6 |
| 17.5° | 893.8 | 891.6 | 883.3 | 891.6 |
| 20° | 847.7 | 843.3 | 839.4 | 838.9 |
| 22.5° | 803.7 | 799.9 | 800.4 | 796.0 |
| 25° | 768.6 | 764.8 | 763.7 | 760.9 |
| 27.5° | 740.0 | 737.9 | 735.7 | 736.8 |
| 30° | 714.2 | 713.7 | 712.6 | 712.6 |
| 32.5° | 692.8 | 692.8 | 693.9 | 693.9 |
| 35° | 673.1 | 674.7 | 675.8 | 674.2 |
| 37.5° | 655.5 | 656.6 | 658.2 | 659.9 |
| 40° | 634.6 | 638.5 | 639.6 | 642.3 |
| 42.5° | 614.9 | 619.3 | 622.6 | 622.6 |
| 45° | 594.6 | 599.0 | 602.8 | 602.8 |
| 47.5° | 573.7 | 579.7 | 583.6 | 584.1 |
| 50° | 552.3 | 560.0 | 563.8 | 566.6 |
| 52.5° | 531.4 | 539.1 | 544.6 | 545.7 |
| 55° | 506.7 | 517.7 | 523.7 | 525.9 |
| 57.5° | 484.8 | 494.6 | 501.2 | 502.9 |
| 60° | 458.4 | 469.4 | 478.2 | 479.8 |
| 62.5° | 431.5 | 443.0 | 450.7 | 455.7 |
| 65° | 399.7 | 411.2 | 418.9 | 420.5 |
| 67.5° | 366.2 | 378.3 | 383.2 | 386.5 |
| 70° | 330.5 | 339.8 | 345.3 | 348.1 |
| 72.5° | 289.9 | 299.8 | 306.3 | 306.3 |
| 75° | 248.1 | 256.9 | 260.2 | 260.2 |
| 77.5° | 204.8 | 209.7 | 214.1 | 215.2 |
| 80° | 163.1 | 165.8 | 169.1 | 169.1 |
| 82.5° | 120.2 | 122.4 | 125.7 | 125.2 |
| 85° | 78.0 | 82.9 | 82.3 | 81.3 |
| 87.5° | 43.9 | 44.5 | 46.1 | 47.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)