

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: P242652

Luminaire Tested: **S124DR-S1195D930-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P242652  
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-S1195D930-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4024.5 lumens  
Efficiency: N/A  
Efficacy: 97.9 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

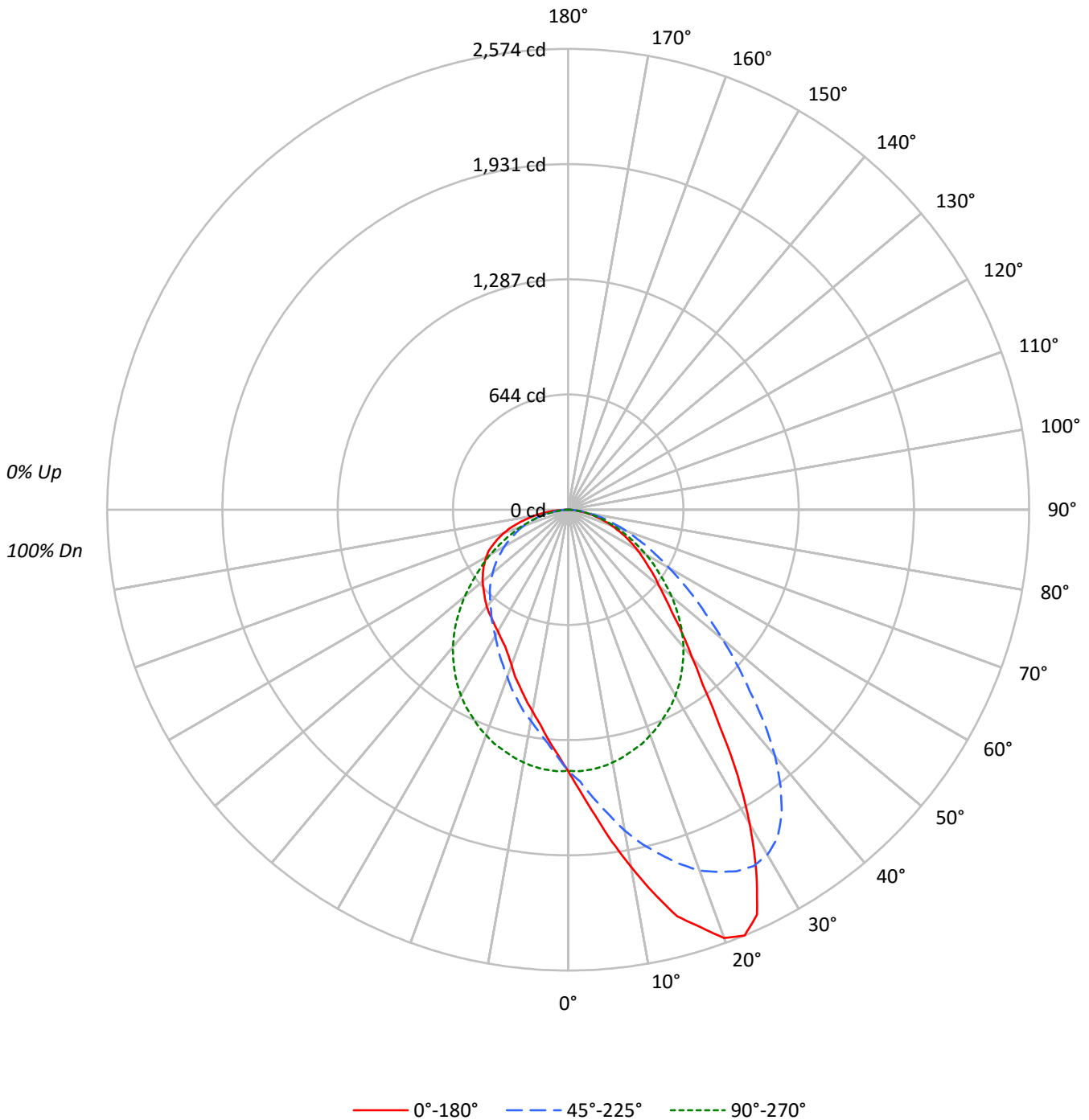
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P242652

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### Luminous Intensity Polar Plot





TEST NUMBER: P242652

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**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°  | 12964 | 12964 | 12964 |
| 5°  | 15267 | 12998 | 11472 |
| 10° | 18280 | 12941 | 10328 |
| 15° | 21628 | 12810 | 9485  |
| 20° | 24084 | 12677 | 8733  |
| 25° | 24472 | 12479 | 8213  |
| 30° | 20824 | 12291 | 8049  |
| 35° | 16010 | 11984 | 8051  |
| 40° | 12479 | 11623 | 8203  |
| 45° | 10405 | 11081 | 8339  |
| 50° | 9157  | 10419 | 8622  |
| 55° | 8389  | 9625  | 8970  |
| 60° | 7863  | 8916  | 9387  |
| 65° | 7319  | 8121  | 9734  |
| 70° | 6690  | 7332  | 9954  |
| 75° | 5976  | 6453  | 9836  |
| 80° | 5011  | 5288  | 9526  |
| 85° | 3702  | 3825  | 9118  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.9  | 3.5       |
| 10°-20°   | 438.1  | 10.9      |
| 20°-30°   | 696.0  | 17.3      |
| 30°-40°   | 773.4  | 19.2      |
| 40°-50°   | 703.3  | 17.5      |
| 50°-60°   | 574.7  | 14.3      |
| 60°-70°   | 410.3  | 10.2      |
| 70°-80°   | 225.7  | 5.6       |
| 80°-90°   | 61.0   | 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°    | 1276.1 | 31.7      |
| 0°-40°    | 2049.4 | 50.9      |
| 0°-60°    | 3327.5 | 82.7      |
| 0°-90°    | 4024.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4024.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1458 | 1458 | 1458 | 1458 | 1458 |      |
| 5°  | 1711 | 1616 | 1457 | 1309 | 1286 | 173  |
| 15° | 2350 | 1994 | 1392 | 1097 | 1031 | 664  |
| 25° | 2495 | 2228 | 1272 | 902  | 837  | 1107 |
| 35° | 1475 | 2078 | 1104 | 745  | 742  | 934  |
| 45° | 828  | 1434 | 882  | 618  | 663  | 650  |
| 55° | 541  | 863  | 621  | 483  | 579  | 489  |
| 65° | 348  | 481  | 386  | 335  | 463  | 344  |
| 75° | 174  | 224  | 188  | 187  | 286  | 185  |
| 85° | 36   | 46   | 38   | 53   | 89   | 45   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P242652

CATALOG NUMBER: S124DR-S1195D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 |
| 2.5°  | 1575.7 | 1575.1 | 1569.0 | 1567.8 | 1563.6 | 1558.2 | 1557.0 | 1547.3 | 1528.0 | 1518.9 | 1516.5 |
| 5°    | 1711.0 | 1723.1 | 1707.4 | 1704.4 | 1702.6 | 1682.6 | 1672.3 | 1660.3 | 1632.5 | 1616.2 | 1603.5 |
| 7.5°  | 1869.3 | 1869.9 | 1863.3 | 1856.6 | 1845.1 | 1828.2 | 1805.3 | 1778.7 | 1746.7 | 1714.0 | 1691.1 |
| 10°   | 2025.2 | 2030.0 | 2022.2 | 2021.0 | 1990.1 | 1970.8 | 1932.1 | 1899.5 | 1862.1 | 1820.4 | 1782.3 |
| 12.5° | 2189.5 | 2179.9 | 2176.8 | 2144.8 | 2145.4 | 2106.1 | 2059.6 | 2025.8 | 1963.0 | 1913.4 | 1859.6 |
| 15°   | 2350.2 | 2336.9 | 2328.5 | 2292.8 | 2275.3 | 2226.4 | 2178.6 | 2141.8 | 2066.3 | 1994.4 | 1940.0 |
| 17.5° | 2443.3 | 2459.6 | 2437.8 | 2423.3 | 2375.6 | 2343.6 | 2295.9 | 2220.3 | 2164.1 | 2074.7 | 2012.5 |
| 20°   | 2546.0 | 2547.2 | 2536.3 | 2521.2 | 2485.6 | 2442.1 | 2388.9 | 2304.3 | 2233.6 | 2144.8 | 2050.6 |
| 22.5° | 2573.8 | 2573.8 | 2570.8 | 2556.9 | 2532.1 | 2498.9 | 2445.1 | 2378.0 | 2288.6 | 2190.1 | 2095.9 |
| 25°   | 2495.2 | 2492.8 | 2498.3 | 2514.0 | 2503.7 | 2492.8 | 2462.0 | 2409.4 | 2329.7 | 2227.6 | 2126.1 |
| 27.5° | 2272.9 | 2288.6 | 2321.2 | 2359.9 | 2387.7 | 2412.5 | 2410.6 | 2388.3 | 2331.5 | 2243.3 | 2135.1 |
| 30°   | 2028.8 | 2049.4 | 2072.3 | 2111.0 | 2185.9 | 2228.8 | 2275.9 | 2311.6 | 2291.6 | 2224.6 | 2125.5 |
| 32.5° | 1760.6 | 1761.8 | 1798.6 | 1843.9 | 1911.0 | 2003.4 | 2085.0 | 2166.6 | 2201.6 | 2174.4 | 2095.9 |
| 35°   | 1475.4 | 1483.8 | 1520.7 | 1564.2 | 1648.2 | 1749.1 | 1861.5 | 1961.7 | 2044.5 | 2077.7 | 2035.5 |
| 37.5° | 1236.1 | 1262.7 | 1290.5 | 1340.1 | 1416.8 | 1508.0 | 1628.8 | 1753.9 | 1875.4 | 1949.1 | 1956.9 |
| 40°   | 1075.4 | 1090.5 | 1109.3 | 1144.9 | 1207.7 | 1297.2 | 1397.4 | 1546.1 | 1677.2 | 1795.6 | 1834.3 |
| 42.5° | 948.6  | 955.8  | 965.5  | 996.9  | 1041.0 | 1129.8 | 1219.2 | 1345.5 | 1477.2 | 1624.6 | 1695.9 |
| 45°   | 827.7  | 836.8  | 856.1  | 874.8  | 911.1  | 972.7  | 1057.9 | 1165.4 | 1297.8 | 1434.3 | 1553.9 |
| 47.5° | 737.1  | 743.1  | 755.2  | 775.8  | 808.4  | 850.1  | 922.6  | 1013.8 | 1143.1 | 1275.4 | 1403.5 |
| 50°   | 662.2  | 667.0  | 676.1  | 694.2  | 717.8  | 754.0  | 810.8  | 894.8  | 990.8  | 1124.4 | 1249.4 |
| 52.5° | 603.0  | 604.2  | 610.2  | 621.1  | 638.6  | 667.6  | 711.7  | 777.6  | 865.2  | 980.6  | 1105.0 |
| 55°   | 541.3  | 543.8  | 549.8  | 558.9  | 575.2  | 594.5  | 630.2  | 682.1  | 760.0  | 863.4  | 971.5  |
| 57.5° | 490.6  | 493.0  | 497.8  | 501.5  | 516.0  | 532.3  | 561.3  | 598.7  | 659.8  | 751.6  | 850.1  |
| 60°   | 442.3  | 441.0  | 447.1  | 450.1  | 459.2  | 472.5  | 493.6  | 529.3  | 580.6  | 651.3  | 740.1  |
| 62.5° | 395.1  | 393.3  | 398.1  | 402.4  | 406.6  | 417.5  | 433.8  | 459.8  | 499.0  | 561.3  | 635.0  |
| 65°   | 348.0  | 345.6  | 348.6  | 353.4  | 358.3  | 364.3  | 377.0  | 401.8  | 435.0  | 480.9  | 539.5  |
| 67.5° | 299.7  | 302.7  | 302.7  | 305.7  | 308.7  | 317.2  | 326.3  | 345.6  | 369.1  | 406.6  | 458.6  |
| 70°   | 257.4  | 258.0  | 260.4  | 260.4  | 262.2  | 269.5  | 276.7  | 287.0  | 309.9  | 343.8  | 384.3  |
| 72.5° | 215.1  | 218.1  | 216.3  | 218.7  | 219.9  | 224.1  | 229.0  | 238.6  | 257.4  | 280.3  | 313.0  |
| 75°   | 174.0  | 175.8  | 175.8  | 176.4  | 178.2  | 180.0  | 184.3  | 191.5  | 205.4  | 224.1  | 247.7  |
| 77.5° | 134.1  | 134.1  | 135.3  | 137.8  | 137.8  | 140.8  | 144.4  | 149.8  | 157.7  | 171.6  | 186.7  |
| 80°   | 97.9   | 99.1   | 98.5   | 99.7   | 99.7   | 102.1  | 103.3  | 110.6  | 113.6  | 122.0  | 133.5  |
| 82.5° | 65.3   | 66.5   | 66.5   | 68.3   | 69.5   | 69.5   | 71.3   | 73.1   | 76.1   | 83.4   | 86.4   |
| 85°   | 36.3   | 37.5   | 36.3   | 37.5   | 39.3   | 39.9   | 41.7   | 42.3   | 44.7   | 46.5   | 50.8   |
| 87.5° | 13.3   | 15.1   | 15.1   | 15.7   | 16.9   | 17.5   | 18.1   | 17.5   | 19.9   | 20.5   | 23.0   |
| 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: P242652

CATALOG NUMBER: S124DR-S1195D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 |
| 2.5°  | 1517.1 | 1508.6 | 1502.6 | 1497.7 | 1484.5 | 1476.6 | 1470.6 | 1462.1 | 1452.4 | 1442.2 | 1429.5 |
| 5°    | 1590.8 | 1570.2 | 1555.1 | 1532.2 | 1510.4 | 1492.3 | 1473.6 | 1456.7 | 1436.1 | 1413.8 | 1397.4 |
| 7.5°  | 1666.3 | 1637.9 | 1599.8 | 1570.2 | 1534.6 | 1503.8 | 1476.6 | 1448.2 | 1418.0 | 1389.0 | 1361.8 |
| 10°   | 1737.6 | 1698.3 | 1654.8 | 1603.5 | 1555.1 | 1512.2 | 1472.4 | 1433.7 | 1396.2 | 1358.8 | 1326.8 |
| 12.5° | 1814.3 | 1763.0 | 1693.5 | 1631.3 | 1575.7 | 1514.7 | 1464.5 | 1415.0 | 1367.8 | 1328.0 | 1289.3 |
| 15°   | 1881.4 | 1810.7 | 1736.4 | 1656.0 | 1584.7 | 1517.7 | 1451.8 | 1392.0 | 1341.3 | 1289.3 | 1253.1 |
| 17.5° | 1923.7 | 1836.1 | 1756.3 | 1672.3 | 1590.2 | 1506.2 | 1437.9 | 1370.9 | 1308.0 | 1257.3 | 1212.0 |
| 20°   | 1965.4 | 1878.4 | 1772.6 | 1688.7 | 1586.0 | 1499.0 | 1416.8 | 1340.1 | 1273.6 | 1218.6 | 1171.5 |
| 22.5° | 2001.6 | 1897.7 | 1792.0 | 1674.8 | 1572.7 | 1479.0 | 1387.2 | 1309.8 | 1241.6 | 1183.0 | 1138.3 |
| 25°   | 2010.1 | 1894.7 | 1779.9 | 1669.9 | 1553.9 | 1444.6 | 1363.0 | 1272.4 | 1199.9 | 1138.9 | 1090.5 |
| 27.5° | 2013.1 | 1891.1 | 1763.6 | 1644.0 | 1524.3 | 1424.6 | 1318.3 | 1239.2 | 1164.2 | 1099.6 | 1053.7 |
| 30°   | 2006.5 | 1877.8 | 1738.2 | 1605.9 | 1485.7 | 1375.1 | 1285.7 | 1197.5 | 1120.7 | 1056.7 | 1008.4 |
| 32.5° | 1985.3 | 1850.0 | 1705.6 | 1563.6 | 1437.9 | 1330.4 | 1237.3 | 1154.6 | 1080.3 | 1017.4 | 966.1  |
| 35°   | 1940.6 | 1808.3 | 1655.4 | 1509.8 | 1382.3 | 1273.0 | 1189.6 | 1104.4 | 1029.5 | 969.7  | 920.8  |
| 37.5° | 1880.8 | 1757.5 | 1602.3 | 1450.6 | 1328.0 | 1216.8 | 1132.8 | 1054.3 | 986.6  | 925.0  | 874.2  |
| 40°   | 1797.4 | 1692.3 | 1536.4 | 1389.6 | 1254.3 | 1149.7 | 1072.4 | 1001.7 | 934.7  | 877.3  | 829.5  |
| 42.5° | 1701.3 | 1613.1 | 1472.4 | 1314.7 | 1185.4 | 1080.3 | 1005.3 | 943.7  | 881.5  | 829.5  | 781.8  |
| 45°   | 1583.5 | 1523.1 | 1387.8 | 1244.0 | 1108.1 | 1009.0 | 937.1  | 881.5  | 828.3  | 776.4  | 736.5  |
| 47.5° | 1452.4 | 1418.6 | 1300.8 | 1163.0 | 1032.5 | 933.4  | 871.2  | 818.0  | 769.7  | 724.4  | 688.8  |
| 50°   | 1320.1 | 1305.6 | 1207.1 | 1075.4 | 952.2  | 860.3  | 797.5  | 753.4  | 713.5  | 674.9  | 641.6  |
| 52.5° | 1189.6 | 1192.6 | 1106.2 | 988.4  | 876.7  | 789.0  | 726.8  | 686.3  | 653.1  | 623.5  | 594.5  |
| 55°   | 1056.1 | 1073.0 | 1003.5 | 896.0  | 793.9  | 714.1  | 657.9  | 621.1  | 596.9  | 570.9  | 548.6  |
| 57.5° | 933.4  | 961.8  | 901.4  | 802.9  | 716.5  | 640.4  | 590.9  | 562.5  | 535.9  | 519.0  | 501.5  |
| 60°   | 813.8  | 840.4  | 795.7  | 715.9  | 635.6  | 572.8  | 526.2  | 501.5  | 479.1  | 468.2  | 456.8  |
| 62.5° | 707.5  | 730.4  | 700.2  | 627.7  | 560.7  | 500.9  | 463.4  | 439.8  | 426.5  | 414.5  | 407.8  |
| 65°   | 607.2  | 627.1  | 598.7  | 545.0  | 485.2  | 436.8  | 404.8  | 386.1  | 371.6  | 366.7  | 358.3  |
| 67.5° | 508.1  | 526.2  | 511.1  | 464.0  | 413.3  | 375.2  | 349.8  | 329.9  | 321.4  | 316.6  | 311.1  |
| 70°   | 421.7  | 439.8  | 423.5  | 383.6  | 346.8  | 316.0  | 292.4  | 282.1  | 273.1  | 271.3  | 262.8  |
| 72.5° | 348.6  | 359.5  | 343.2  | 314.2  | 284.0  | 259.2  | 242.3  | 231.4  | 227.8  | 224.1  | 220.5  |
| 75°   | 272.5  | 283.4  | 272.5  | 248.3  | 226.0  | 207.8  | 192.1  | 187.9  | 182.5  | 180.6  | 177.6  |
| 77.5° | 204.2  | 214.5  | 206.0  | 189.7  | 172.2  | 157.1  | 148.0  | 142.0  | 141.4  | 137.8  | 139.0  |
| 80°   | 147.4  | 153.5  | 145.6  | 135.3  | 122.0  | 112.4  | 106.3  | 103.3  | 99.7   | 98.5   | 100.9  |
| 82.5° | 95.5   | 97.3   | 94.3   | 88.2   | 79.1   | 73.7   | 70.1   | 66.5   | 66.5   | 67.1   | 66.5   |
| 85°   | 55.0   | 54.4   | 53.8   | 47.7   | 44.7   | 40.5   | 38.1   | 37.5   | 36.9   | 38.1   | 39.3   |
| 87.5° | 23.0   | 23.6   | 23.0   | 20.5   | 18.7   | 16.9   | 16.3   | 15.7   | 16.3   | 16.9   | 17.5   |
| 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: P242652

CATALOG NUMBER: S124DR-S1195D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 | 1458.5 |
| 2.5°  | 1423.4 | 1418.0 | 1410.1 | 1399.3 | 1390.2 | 1380.5 | 1378.1 | 1374.5 | 1381.7 | 1375.7 | 1373.9 |
| 5°    | 1383.6 | 1370.9 | 1354.6 | 1335.8 | 1324.9 | 1309.2 | 1306.2 | 1300.2 | 1294.1 | 1293.5 | 1287.5 |
| 7.5°  | 1341.9 | 1324.3 | 1303.8 | 1284.5 | 1267.6 | 1250.6 | 1239.8 | 1238.6 | 1228.9 | 1224.1 | 1218.0 |
| 10°   | 1302.0 | 1279.0 | 1254.3 | 1236.1 | 1215.6 | 1197.5 | 1184.8 | 1177.5 | 1171.5 | 1164.8 | 1158.8 |
| 12.5° | 1254.9 | 1230.1 | 1210.8 | 1190.8 | 1165.4 | 1152.8 | 1129.8 | 1115.9 | 1115.9 | 1117.7 | 1099.6 |
| 15°   | 1220.4 | 1196.3 | 1164.8 | 1137.1 | 1123.8 | 1097.2 | 1085.7 | 1071.2 | 1062.1 | 1053.1 | 1045.8 |
| 17.5° | 1178.1 | 1148.5 | 1124.4 | 1092.9 | 1068.2 | 1048.2 | 1032.5 | 1024.7 | 1010.2 | 996.9  | 987.8  |
| 20°   | 1138.9 | 1106.8 | 1080.9 | 1047.0 | 1019.2 | 993.3  | 980.6  | 968.5  | 958.2  | 947.3  | 937.1  |
| 22.5° | 1099.0 | 1065.2 | 1031.9 | 999.3  | 973.9  | 946.1  | 934.0  | 916.5  | 906.9  | 902.0  | 891.8  |
| 25°   | 1056.7 | 1020.4 | 984.2  | 952.8  | 926.2  | 902.0  | 885.7  | 873.0  | 862.2  | 857.3  | 850.7  |
| 27.5° | 1010.8 | 975.1  | 940.7  | 904.4  | 873.6  | 856.1  | 842.8  | 832.5  | 825.9  | 818.7  | 815.6  |
| 30°   | 967.3  | 929.8  | 892.4  | 859.1  | 831.3  | 813.8  | 801.7  | 795.1  | 790.3  | 787.2  | 784.2  |
| 32.5° | 923.2  | 886.3  | 846.4  | 816.8  | 792.7  | 777.6  | 769.1  | 762.5  | 760.7  | 760.0  | 759.4  |
| 35°   | 875.4  | 838.0  | 801.7  | 774.5  | 751.0  | 744.9  | 737.1  | 733.5  | 732.3  | 736.5  | 738.3  |
| 37.5° | 829.5  | 794.5  | 760.7  | 733.5  | 717.8  | 708.1  | 705.1  | 704.5  | 708.7  | 712.3  | 716.5  |
| 40°   | 785.4  | 751.6  | 720.2  | 697.2  | 682.7  | 677.3  | 676.1  | 679.1  | 683.9  | 688.2  | 693.0  |
| 42.5° | 742.5  | 709.3  | 681.5  | 660.4  | 651.3  | 646.5  | 647.7  | 650.7  | 657.9  | 663.4  | 671.2  |
| 45°   | 697.8  | 670.0  | 642.2  | 624.7  | 616.3  | 617.5  | 617.5  | 622.9  | 629.5  | 637.4  | 645.3  |
| 47.5° | 656.1  | 627.7  | 604.2  | 589.1  | 584.8  | 583.0  | 586.0  | 593.3  | 602.4  | 611.4  | 622.3  |
| 50°   | 613.8  | 587.3  | 567.3  | 554.0  | 549.2  | 551.0  | 555.8  | 562.5  | 574.0  | 586.0  | 597.5  |
| 52.5° | 570.9  | 547.4  | 529.3  | 517.2  | 514.2  | 517.8  | 522.6  | 534.1  | 543.8  | 557.0  | 571.5  |
| 55°   | 526.2  | 505.7  | 491.2  | 482.1  | 480.9  | 482.7  | 488.2  | 499.7  | 514.2  | 530.5  | 543.8  |
| 57.5° | 482.1  | 464.6  | 450.7  | 444.1  | 444.7  | 445.9  | 454.3  | 468.2  | 482.7  | 500.3  | 517.2  |
| 60°   | 437.4  | 421.7  | 410.8  | 406.0  | 406.6  | 410.2  | 421.1  | 433.8  | 453.1  | 470.0  | 488.2  |
| 62.5° | 395.1  | 381.8  | 371.6  | 367.3  | 366.1  | 375.2  | 385.5  | 398.8  | 418.1  | 437.4  | 457.4  |
| 65°   | 349.2  | 338.3  | 329.9  | 327.5  | 329.3  | 335.3  | 348.6  | 366.1  | 382.4  | 402.4  | 422.9  |
| 67.5° | 304.5  | 295.4  | 289.4  | 290.6  | 292.4  | 300.9  | 312.4  | 327.5  | 345.6  | 366.1  | 387.3  |
| 70°   | 262.2  | 253.8  | 248.9  | 249.5  | 253.1  | 264.0  | 273.7  | 288.8  | 308.7  | 329.9  | 346.8  |
| 72.5° | 218.7  | 213.9  | 209.6  | 212.7  | 216.3  | 222.9  | 235.6  | 250.7  | 267.6  | 287.0  | 305.1  |
| 75°   | 174.6  | 174.6  | 172.2  | 174.0  | 179.4  | 186.7  | 195.8  | 211.5  | 229.0  | 244.7  | 259.2  |
| 77.5° | 137.1  | 135.3  | 136.5  | 138.4  | 142.0  | 151.0  | 161.3  | 172.8  | 186.7  | 203.0  | 215.1  |
| 80°   | 99.1   | 99.7   | 102.7  | 106.3  | 107.5  | 114.2  | 125.1  | 135.3  | 145.6  | 158.9  | 170.4  |
| 82.5° | 68.3   | 68.9   | 70.1   | 74.9   | 76.1   | 83.4   | 89.4   | 99.7   | 108.8  | 116.6  | 125.7  |
| 85°   | 40.5   | 40.5   | 43.5   | 45.3   | 48.3   | 53.2   | 57.4   | 63.4   | 71.9   | 77.9   | 87.0   |
| 87.5° | 19.3   | 19.3   | 21.8   | 23.0   | 24.8   | 27.8   | 29.0   | 35.6   | 38.1   | 41.1   | 46.5   |
| 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: P242652

CATALOG NUMBER: S124DR-S1195D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1458.5 | 1458.5 | 1458.5 | 1458.5 |
| 2.5°  | 1372.7 | 1371.5 | 1367.2 | 1366.6 |
| 5°    | 1283.9 | 1280.8 | 1279.0 | 1285.7 |
| 7.5°  | 1216.8 | 1214.4 | 1208.9 | 1207.1 |
| 10°   | 1152.8 | 1150.3 | 1145.5 | 1144.3 |
| 12.5° | 1091.1 | 1085.7 | 1085.7 | 1087.5 |
| 15°   | 1038.0 | 1035.6 | 1028.9 | 1030.7 |
| 17.5° | 983.6  | 981.2  | 972.1  | 981.2  |
| 20°   | 932.8  | 928.0  | 923.8  | 923.2  |
| 22.5° | 884.5  | 880.3  | 880.9  | 876.0  |
| 25°   | 845.8  | 841.6  | 840.4  | 837.4  |
| 27.5° | 814.4  | 812.0  | 809.6  | 810.8  |
| 30°   | 786.0  | 785.4  | 784.2  | 784.2  |
| 32.5° | 762.5  | 762.5  | 763.7  | 763.7  |
| 35°   | 740.7  | 742.5  | 743.7  | 741.9  |
| 37.5° | 721.4  | 722.6  | 724.4  | 726.2  |
| 40°   | 698.4  | 702.7  | 703.9  | 706.9  |
| 42.5° | 676.7  | 681.5  | 685.1  | 685.1  |
| 45°   | 654.3  | 659.2  | 663.4  | 663.4  |
| 47.5° | 631.4  | 638.0  | 642.2  | 642.8  |
| 50°   | 607.8  | 616.3  | 620.5  | 623.5  |
| 52.5° | 584.8  | 593.3  | 599.3  | 600.5  |
| 55°   | 557.7  | 569.7  | 576.4  | 578.8  |
| 57.5° | 533.5  | 544.4  | 551.6  | 553.4  |
| 60°   | 504.5  | 516.6  | 526.2  | 528.0  |
| 62.5° | 474.9  | 487.6  | 496.0  | 501.5  |
| 65°   | 439.8  | 452.5  | 461.0  | 462.8  |
| 67.5° | 403.0  | 416.3  | 421.7  | 425.3  |
| 70°   | 363.7  | 374.0  | 380.0  | 383.0  |
| 72.5° | 319.0  | 329.9  | 337.1  | 337.1  |
| 75°   | 273.1  | 282.8  | 286.4  | 286.4  |
| 77.5° | 225.4  | 230.8  | 235.6  | 236.8  |
| 80°   | 179.4  | 182.5  | 186.1  | 186.1  |
| 82.5° | 132.3  | 134.7  | 138.4  | 137.8  |
| 85°   | 85.8   | 91.2   | 90.6   | 89.4   |
| 87.5° | 48.3   | 48.9   | 50.8   | 52.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)