

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: METALUX

Report Number: P192508

Luminaire Tested: **4WSL-LD2-55-UPL15-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28105)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U
Description: 4FT Linear Wavestream System, 15% Uplight, L850
Light Source: (238) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT50W

Summary

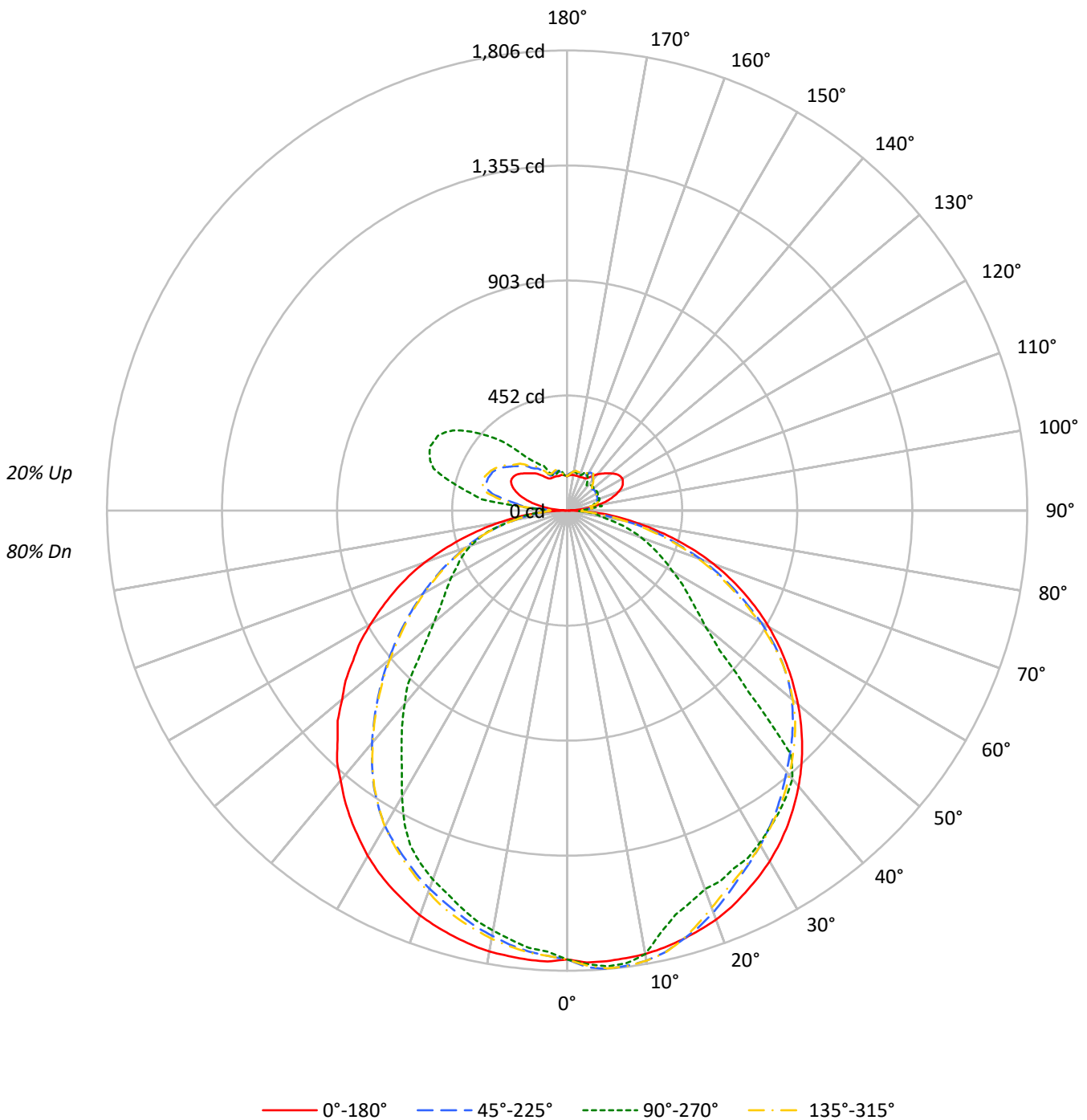
Lumens per Lamp: N/A
Luminaire Lumens: 6233.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.19 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 3.8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.9
Input Voltage (V): NR
Input Current (Ain): 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: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 100 | 100 | 100 | 91 | 91 | 91 | 83 | 83 | 83 | 80 |
| 1 | 104 | 99 | 95 | 91 | 99 | 95 | 91 | 88 | 87 | 84 | 81 | 80 | 77 | 75 | 73 | 71 | 70 | 66 |
| 2 | 94 | 86 | 80 | 74 | 90 | 83 | 77 | 72 | 76 | 71 | 67 | 70 | 66 | 62 | 64 | 61 | 58 | 55 |
| 3 | 86 | 76 | 68 | 62 | 82 | 73 | 66 | 60 | 67 | 61 | 56 | 61 | 57 | 53 | 56 | 53 | 49 | 46 |
| 4 | 79 | 67 | 59 | 52 | 75 | 64 | 57 | 51 | 59 | 53 | 48 | 55 | 49 | 45 | 50 | 46 | 42 | 40 |
| 5 | 72 | 60 | 51 | 45 | 69 | 58 | 50 | 44 | 53 | 46 | 41 | 49 | 43 | 39 | 45 | 41 | 37 | 34 |
| 6 | 67 | 54 | 45 | 39 | 64 | 52 | 44 | 38 | 48 | 41 | 36 | 44 | 39 | 34 | 41 | 36 | 32 | 30 |
| 7 | 62 | 49 | 40 | 34 | 59 | 47 | 39 | 33 | 44 | 37 | 32 | 40 | 35 | 30 | 38 | 33 | 29 | 26 |
| 8 | 58 | 44 | 36 | 30 | 55 | 43 | 35 | 30 | 40 | 33 | 28 | 37 | 31 | 27 | 34 | 29 | 26 | 24 |
| 9 | 54 | 41 | 33 | 27 | 51 | 39 | 32 | 27 | 37 | 30 | 26 | 34 | 28 | 24 | 32 | 27 | 23 | 21 |
| 10 | 50 | 37 | 30 | 25 | 48 | 36 | 29 | 24 | 34 | 27 | 23 | 32 | 26 | 22 | 30 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|------|
| 0° | 9978 | 9978 | 9978 | 9978 |
| 5° | 10096 | 10211 | 10062 | 9797 |
| 10° | 10167 | 10167 | 10108 | 9632 |
| 15° | 10223 | 9630 | 10140 | 9452 |
| 20° | 10301 | 9533 | 10191 | 9289 |
| 25° | 10339 | 9682 | 10213 | 9088 |
| 30° | 10397 | 9868 | 10238 | 8479 |
| 35° | 10433 | 10013 | 10236 | 7831 |
| 40° | 10453 | 10169 | 10229 | 7342 |
| 45° | 10449 | 8084 | 10206 | 6610 |
| 50° | 10426 | 6237 | 10158 | 6006 |
| 55° | 10386 | 5752 | 10126 | 5831 |
| 60° | 10356 | 5430 | 10081 | 5956 |
| 65° | 10274 | 5259 | 10002 | 6235 |
| 70° | 10116 | 5125 | 9847 | 6665 |
| 75° | 9649 | 4868 | 9340 | 7081 |
| 80° | 9037 | 4421 | 8773 | 7060 |
| 85° | 9068 | 5785 | 8411 | 8411 |



TEST NUMBER: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 167.6 | 2.7 |
| 10°-20° | 475.6 | 7.6 |
| 20°-30° | 718.8 | 11.5 |
| 30°-40° | 865.1 | 13.9 |
| 40°-50° | 879.8 | 14.1 |
| 50°-60° | 765.8 | 12.3 |
| 60°-70° | 597.3 | 9.6 |
| 70°-80° | 369.3 | 5.9 |
| 80°-90° | 129.9 | 2.1 |
| 90°-100° | 122.3 | 2.0 |
| 100°-110° | 236.8 | 3.8 |
| 110°-120° | 259.1 | 4.2 |
| 120°-130° | 227.2 | 3.6 |
| 130°-140° | 170.2 | 2.7 |
| 140°-150° | 116.5 | 1.9 |
| 150°-160° | 74.2 | 1.2 |
| 160°-170° | 43.4 | 0.7 |
| 170°-180° | 14.0 | 0.2 |
| 0°-30° | 1362.0 | 21.9 |
| 0°-40° | 2227.1 | 35.7 |
| 0°-60° | 3872.6 | 62.1 |
| 0°-90° | 4969.2 | 79.7 |
| 90°-120° | 618.3 | 9.9 |
| 90°-150° | 1132.3 | 18.2 |
| 90°-180° | 1264.0 | 20.3 |
| 0°-180° | 6233.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1761 | 1761 | 1761 | 1761 | 1761 | |
| 5° | 1775 | 1796 | 1769 | 1723 | 1775 | 169 |
| 15° | 1743 | 1642 | 1729 | 1612 | 1743 | 493 |
| 25° | 1654 | 1549 | 1634 | 1454 | 1654 | 763 |
| 35° | 1508 | 1448 | 1480 | 1132 | 1508 | 944 |
| 45° | 1304 | 1009 | 1274 | 825 | 1304 | 1006 |
| 55° | 1052 | 582 | 1025 | 590 | 1052 | 940 |
| 65° | 766 | 392 | 746 | 465 | 766 | 757 |
| 75° | 441 | 222 | 427 | 324 | 441 | 467 |
| 85° | 140 | 89 | 129 | 129 | 140 | 139 |
| 90° | 2 | 57 | 2 | 89 | 2 | 11 |
| 95° | 55 | 93 | 42 | 186 | 55 | 57 |
| 105° | 174 | 115 | 168 | 495 | 174 | 181 |
| 115° | 241 | 131 | 241 | 594 | 241 | 236 |
| 125° | 245 | 138 | 245 | 548 | 245 | 217 |
| 135° | 206 | 138 | 206 | 400 | 206 | 160 |
| 145° | 162 | 138 | 166 | 239 | 162 | 103 |
| 155° | 144 | 166 | 142 | 164 | 144 | 66 |
| 165° | 142 | 150 | 140 | 152 | 142 | 40 |
| 175° | 140 | 146 | 140 | 142 | 140 | 13 |
| 180° | 136 | 136 | 136 | 136 | 136 | |



TEST NUMBER: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 |
| 2.5° | 1775.4 | 1767.3 | 1793.6 | 1795.6 | 1781.4 | 1787.5 | 1787.5 | 1765.3 | 1771.3 | 1745.0 | 1749.1 |
| 5° | 1775.4 | 1777.4 | 1805.7 | 1803.7 | 1795.6 | 1797.6 | 1803.7 | 1775.4 | 1769.3 | 1732.9 | 1736.9 |
| 7.5° | 1771.3 | 1781.4 | 1801.6 | 1799.6 | 1791.5 | 1793.6 | 1803.7 | 1779.4 | 1763.2 | 1720.8 | 1718.7 |
| 10° | 1767.3 | 1777.4 | 1793.6 | 1783.4 | 1767.3 | 1773.3 | 1793.6 | 1777.4 | 1757.2 | 1706.6 | 1694.5 |
| 12.5° | 1757.2 | 1767.3 | 1775.4 | 1724.8 | 1696.5 | 1720.8 | 1777.4 | 1767.3 | 1745.0 | 1686.4 | 1670.2 |
| 15° | 1743.0 | 1755.1 | 1745.0 | 1674.3 | 1641.9 | 1664.1 | 1745.0 | 1753.1 | 1728.9 | 1660.1 | 1639.9 |
| 17.5° | 1726.8 | 1741.0 | 1714.7 | 1635.8 | 1611.6 | 1621.7 | 1702.6 | 1734.9 | 1710.7 | 1633.8 | 1609.6 |
| 20° | 1708.6 | 1724.8 | 1678.3 | 1595.4 | 1581.2 | 1589.3 | 1658.1 | 1714.7 | 1690.4 | 1605.5 | 1579.2 |
| 22.5° | 1684.4 | 1702.6 | 1635.8 | 1567.1 | 1573.2 | 1567.1 | 1617.6 | 1688.4 | 1662.1 | 1575.2 | 1544.8 |
| 25° | 1654.0 | 1674.3 | 1593.4 | 1542.8 | 1548.9 | 1546.9 | 1583.3 | 1654.0 | 1633.8 | 1538.8 | 1506.4 |
| 27.5° | 1623.7 | 1643.9 | 1555.0 | 1526.6 | 1536.8 | 1524.6 | 1550.9 | 1617.6 | 1601.5 | 1500.4 | 1470.0 |
| 30° | 1589.3 | 1611.6 | 1516.5 | 1498.3 | 1508.5 | 1500.4 | 1518.6 | 1581.2 | 1565.1 | 1459.9 | 1429.6 |
| 32.5° | 1550.9 | 1573.2 | 1476.1 | 1464.0 | 1478.1 | 1468.0 | 1480.1 | 1540.8 | 1522.6 | 1415.4 | 1379.0 |
| 35° | 1508.5 | 1530.7 | 1433.6 | 1433.6 | 1447.8 | 1435.7 | 1441.7 | 1500.4 | 1480.1 | 1371.0 | 1322.4 |
| 37.5° | 1461.9 | 1486.2 | 1387.1 | 1397.2 | 1413.4 | 1401.3 | 1401.3 | 1457.9 | 1433.6 | 1322.4 | 1257.7 |
| 40° | 1413.4 | 1439.7 | 1338.6 | 1360.8 | 1375.0 | 1360.8 | 1356.8 | 1413.4 | 1383.1 | 1273.9 | 1191.0 |
| 42.5° | 1360.8 | 1389.1 | 1294.1 | 1320.4 | 1302.2 | 1320.4 | 1310.3 | 1366.9 | 1336.6 | 1221.3 | 1122.2 |
| 45° | 1304.2 | 1340.6 | 1249.6 | 1233.5 | 1009.0 | 1221.3 | 1263.8 | 1318.4 | 1273.9 | 1170.8 | 1053.5 |
| 47.5° | 1245.6 | 1284.0 | 1201.1 | 1083.8 | 810.8 | 1071.7 | 1213.2 | 1265.8 | 1221.3 | 1116.2 | 984.7 |
| 50° | 1182.9 | 1227.4 | 1150.5 | 954.4 | 707.7 | 942.3 | 1156.6 | 1211.2 | 1152.6 | 1057.5 | 916.0 |
| 52.5° | 1118.2 | 1166.7 | 1093.9 | 843.2 | 639.0 | 831.1 | 1096.0 | 1152.6 | 1096.0 | 994.8 | 849.3 |
| 55° | 1051.5 | 1102.0 | 1027.2 | 740.1 | 582.4 | 738.0 | 1025.2 | 1089.9 | 1025.2 | 932.2 | 782.5 |
| 57.5° | 984.7 | 1041.4 | 956.4 | 665.3 | 533.8 | 655.1 | 946.3 | 1025.2 | 964.5 | 867.5 | 717.8 |
| 60° | 914.0 | 966.5 | 879.6 | 584.4 | 479.2 | 582.4 | 867.5 | 958.5 | 889.7 | 800.7 | 655.1 |
| 62.5° | 841.2 | 899.8 | 796.7 | 513.6 | 434.7 | 511.6 | 782.5 | 883.6 | 816.9 | 732.0 | 594.5 |
| 65° | 766.4 | 823.0 | 717.8 | 457.0 | 392.3 | 452.9 | 703.7 | 806.8 | 746.1 | 663.2 | 537.9 |
| 67.5° | 689.5 | 742.1 | 639.0 | 402.4 | 349.8 | 398.3 | 622.8 | 725.9 | 673.3 | 592.5 | 477.2 |
| 70° | 610.7 | 659.2 | 558.1 | 349.8 | 309.4 | 347.8 | 543.9 | 643.0 | 594.5 | 519.7 | 422.6 |
| 72.5° | 527.8 | 572.2 | 473.2 | 299.3 | 266.9 | 297.2 | 461.0 | 558.1 | 507.5 | 442.8 | 374.1 |
| 75° | 440.8 | 483.3 | 394.3 | 248.7 | 222.4 | 246.7 | 382.2 | 467.1 | 426.7 | 372.1 | 317.5 |
| 77.5° | 357.9 | 400.4 | 313.4 | 192.1 | 169.9 | 188.1 | 299.3 | 382.2 | 347.8 | 301.3 | 258.8 |
| 80° | 277.0 | 311.4 | 230.5 | 143.6 | 135.5 | 143.6 | 224.4 | 293.2 | 268.9 | 236.6 | 202.2 |
| 82.5° | 204.2 | 224.4 | 155.7 | 117.3 | 117.3 | 117.3 | 151.7 | 208.3 | 198.2 | 175.9 | 153.7 |
| 85° | 139.5 | 139.5 | 105.1 | 89.0 | 89.0 | 89.0 | 103.1 | 123.3 | 129.4 | 117.3 | 117.3 |
| 87.5° | 58.6 | 60.7 | 54.6 | 48.5 | 46.5 | 48.5 | 52.6 | 50.6 | 50.6 | 56.6 | 70.8 |
| 90° | 2.0 | 26.3 | 44.5 | 54.6 | 56.6 | 52.6 | 40.4 | 24.3 | 2.0 | 34.4 | 62.7 |
| 92.5° | 14.2 | 56.6 | 52.6 | 68.7 | 70.8 | 64.7 | 54.6 | 44.5 | 8.1 | 62.7 | 66.7 |
| 95° | 54.6 | 66.7 | 103.1 | 105.1 | 93.0 | 89.0 | 101.1 | 62.7 | 42.5 | 84.9 | 169.9 |
| 97.5° | 86.9 | 101.1 | 93.0 | 121.3 | 137.5 | 121.3 | 97.1 | 97.1 | 80.9 | 131.4 | 198.2 |
| 100° | 119.3 | 107.2 | 95.0 | 105.1 | 121.3 | 107.2 | 91.0 | 107.2 | 113.2 | 153.7 | 242.6 |
| 102.5° | 149.6 | 119.3 | 119.3 | 103.1 | 105.1 | 101.1 | 115.3 | 117.3 | 141.5 | 173.9 | 299.3 |
| 105° | 173.9 | 123.3 | 125.4 | 117.3 | 115.3 | 117.3 | 125.4 | 125.4 | 167.8 | 192.1 | 325.6 |
| 107.5° | 196.1 | 127.4 | 123.3 | 129.4 | 131.4 | 129.4 | 123.3 | 127.4 | 192.1 | 204.2 | 331.6 |
| 110° | 214.3 | 129.4 | 125.4 | 129.4 | 135.5 | 129.4 | 125.4 | 131.4 | 212.3 | 216.4 | 335.7 |



TEST NUMBER: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 230.5 | 131.4 | 129.4 | 127.4 | 133.5 | 127.4 | 129.4 | 135.5 | 228.5 | 222.4 | 335.7 |
| 115° | 240.6 | 133.5 | 129.4 | 129.4 | 131.4 | 129.4 | 131.4 | 137.5 | 240.6 | 224.4 | 331.6 |
| 117.5° | 246.7 | 137.5 | 131.4 | 133.5 | 135.5 | 133.5 | 131.4 | 141.5 | 248.7 | 232.5 | 329.6 |
| 120° | 250.7 | 151.7 | 131.4 | 135.5 | 137.5 | 135.5 | 131.4 | 153.7 | 250.7 | 236.6 | 321.5 |
| 122.5° | 248.7 | 157.7 | 133.5 | 135.5 | 139.5 | 135.5 | 133.5 | 159.7 | 248.7 | 234.6 | 311.4 |
| 125° | 244.7 | 163.8 | 133.5 | 133.5 | 137.5 | 135.5 | 135.5 | 163.8 | 244.7 | 230.5 | 297.2 |
| 127.5° | 236.6 | 177.9 | 133.5 | 135.5 | 135.5 | 135.5 | 135.5 | 175.9 | 236.6 | 232.5 | 283.1 |
| 130° | 226.5 | 188.1 | 129.4 | 137.5 | 135.5 | 139.5 | 133.5 | 188.1 | 226.5 | 226.5 | 271.0 |
| 132.5° | 216.4 | 192.1 | 129.4 | 137.5 | 137.5 | 139.5 | 131.4 | 192.1 | 216.4 | 218.4 | 258.8 |
| 135° | 206.2 | 196.1 | 137.5 | 135.5 | 137.5 | 137.5 | 139.5 | 196.1 | 206.2 | 210.3 | 250.7 |
| 137.5° | 196.1 | 198.2 | 147.6 | 129.4 | 135.5 | 131.4 | 151.7 | 198.2 | 198.2 | 198.2 | 238.6 |
| 140° | 186.0 | 196.1 | 155.7 | 125.4 | 127.4 | 129.4 | 159.7 | 198.2 | 190.1 | 192.1 | 218.4 |
| 142.5° | 173.9 | 190.1 | 161.8 | 135.5 | 125.4 | 139.5 | 165.8 | 196.1 | 177.9 | 186.0 | 208.3 |
| 145° | 161.8 | 184.0 | 173.9 | 149.6 | 137.5 | 155.7 | 180.0 | 190.1 | 165.8 | 182.0 | 202.2 |
| 147.5° | 151.7 | 173.9 | 175.9 | 157.7 | 151.7 | 163.8 | 182.0 | 182.0 | 153.7 | 173.9 | 188.1 |
| 150° | 145.6 | 163.8 | 169.9 | 163.8 | 157.7 | 171.9 | 177.9 | 167.8 | 145.6 | 167.8 | 175.9 |
| 152.5° | 143.6 | 155.7 | 155.7 | 171.9 | 169.9 | 180.0 | 163.8 | 159.7 | 141.5 | 161.8 | 159.7 |
| 155° | 143.6 | 153.7 | 149.6 | 157.7 | 165.8 | 165.8 | 155.7 | 155.7 | 141.5 | 161.8 | 151.7 |
| 157.5° | 141.5 | 155.7 | 149.6 | 147.6 | 151.7 | 155.7 | 155.7 | 157.7 | 141.5 | 157.7 | 151.7 |
| 160° | 141.5 | 157.7 | 151.7 | 145.6 | 147.6 | 153.7 | 157.7 | 157.7 | 141.5 | 157.7 | 153.7 |
| 162.5° | 141.5 | 153.7 | 153.7 | 147.6 | 147.6 | 155.7 | 157.7 | 155.7 | 141.5 | 153.7 | 157.7 |
| 165° | 141.5 | 153.7 | 155.7 | 151.7 | 149.6 | 159.7 | 157.7 | 151.7 | 139.5 | 151.7 | 159.7 |
| 167.5° | 141.5 | 149.6 | 157.7 | 153.7 | 153.7 | 159.7 | 159.7 | 149.6 | 139.5 | 145.6 | 159.7 |
| 170° | 141.5 | 147.6 | 155.7 | 153.7 | 155.7 | 161.8 | 155.7 | 147.6 | 141.5 | 143.6 | 153.7 |
| 172.5° | 141.5 | 143.6 | 151.7 | 153.7 | 153.7 | 157.7 | 151.7 | 143.6 | 141.5 | 139.5 | 147.6 |
| 175° | 139.5 | 143.6 | 147.6 | 147.6 | 145.6 | 151.7 | 145.6 | 141.5 | 139.5 | 137.5 | 141.5 |
| 177.5° | 137.5 | 139.5 | 143.6 | 143.6 | 139.5 | 143.6 | 139.5 | 137.5 | 137.5 | 135.5 | 139.5 |
| 180° | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 |



TEST NUMBER: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 | 1761.2 |
| 2.5° | 1747.1 | 1732.9 | 1736.9 | 1749.1 | 1747.1 | 1775.4 |
| 5° | 1728.9 | 1722.8 | 1722.8 | 1741.0 | 1739.0 | 1775.4 |
| 7.5° | 1708.6 | 1698.5 | 1704.6 | 1724.8 | 1730.9 | 1771.3 |
| 10° | 1682.3 | 1674.3 | 1676.3 | 1706.6 | 1716.7 | 1767.3 |
| 12.5° | 1656.1 | 1648.0 | 1654.0 | 1682.3 | 1696.5 | 1757.2 |
| 15° | 1625.7 | 1611.6 | 1627.8 | 1658.1 | 1676.3 | 1743.0 |
| 17.5° | 1589.3 | 1573.2 | 1589.3 | 1629.8 | 1652.0 | 1726.8 |
| 20° | 1557.0 | 1540.8 | 1550.9 | 1593.4 | 1623.7 | 1708.6 |
| 22.5° | 1520.6 | 1500.4 | 1508.5 | 1555.0 | 1593.4 | 1684.4 |
| 25° | 1480.1 | 1453.9 | 1466.0 | 1516.5 | 1559.0 | 1654.0 |
| 27.5° | 1427.6 | 1383.1 | 1413.4 | 1476.1 | 1516.5 | 1623.7 |
| 30° | 1354.8 | 1296.1 | 1344.7 | 1431.6 | 1478.1 | 1589.3 |
| 32.5° | 1269.8 | 1207.2 | 1259.7 | 1377.0 | 1433.6 | 1550.9 |
| 35° | 1186.9 | 1132.3 | 1180.9 | 1320.4 | 1389.1 | 1508.5 |
| 37.5° | 1114.2 | 1063.6 | 1108.1 | 1255.7 | 1340.6 | 1461.9 |
| 40° | 1039.3 | 992.8 | 1037.3 | 1186.9 | 1292.1 | 1413.4 |
| 42.5° | 970.6 | 926.1 | 968.6 | 1118.2 | 1239.5 | 1360.8 |
| 45° | 897.8 | 825.0 | 893.7 | 1047.4 | 1182.9 | 1304.2 |
| 47.5° | 821.0 | 744.1 | 814.9 | 978.7 | 1126.3 | 1245.6 |
| 50° | 750.2 | 681.4 | 746.1 | 907.9 | 1065.6 | 1182.9 |
| 52.5° | 687.5 | 628.9 | 685.5 | 837.1 | 1002.9 | 1118.2 |
| 55° | 628.9 | 590.4 | 630.9 | 772.4 | 944.3 | 1051.5 |
| 57.5° | 582.4 | 556.1 | 584.4 | 709.7 | 879.6 | 984.7 |
| 60° | 541.9 | 525.7 | 543.9 | 647.1 | 810.8 | 914.0 |
| 62.5° | 497.4 | 491.4 | 497.4 | 586.4 | 744.1 | 841.2 |
| 65° | 459.0 | 465.1 | 459.0 | 531.8 | 673.3 | 766.4 |
| 67.5° | 422.6 | 436.8 | 424.6 | 473.2 | 602.6 | 689.5 |
| 70° | 382.2 | 402.4 | 384.2 | 420.6 | 529.8 | 610.7 |
| 72.5° | 339.7 | 364.0 | 339.7 | 370.0 | 452.9 | 527.8 |
| 75° | 295.2 | 323.5 | 297.2 | 315.4 | 380.1 | 440.8 |
| 77.5° | 246.7 | 264.9 | 250.7 | 256.8 | 309.4 | 357.9 |
| 80° | 196.1 | 216.4 | 198.2 | 202.2 | 244.7 | 277.0 |
| 82.5° | 163.8 | 177.9 | 165.8 | 153.7 | 182.0 | 204.2 |
| 85° | 121.3 | 129.4 | 125.4 | 119.3 | 125.4 | 139.5 |
| 87.5° | 74.8 | 78.9 | 74.8 | 74.8 | 64.7 | 58.6 |
| 90° | 82.9 | 89.0 | 82.9 | 64.7 | 36.4 | 2.0 |
| 92.5° | 84.9 | 93.0 | 84.9 | 70.8 | 68.7 | 14.2 |
| 95° | 190.1 | 186.0 | 202.2 | 184.0 | 105.1 | 54.6 |
| 97.5° | 295.2 | 337.7 | 305.3 | 220.4 | 141.5 | 86.9 |
| 100° | 339.7 | 380.1 | 353.9 | 275.0 | 161.8 | 119.3 |
| 102.5° | 392.3 | 436.8 | 408.5 | 321.5 | 182.0 | 149.6 |
| 105° | 457.0 | 495.4 | 471.1 | 339.7 | 200.2 | 173.9 |
| 107.5° | 491.4 | 550.0 | 501.5 | 347.8 | 212.3 | 196.1 |
| 110° | 509.6 | 572.2 | 525.7 | 349.8 | 222.4 | 214.3 |



TEST NUMBER: P192508

CATALOG NUMBER: 4WSL-LD2-55-UPL15-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 523.7 | 584.4 | 535.8 | 349.8 | 226.5 | 230.5 |
| 115° | 523.7 | 594.5 | 535.8 | 343.7 | 232.5 | 240.6 |
| 117.5° | 523.7 | 588.4 | 535.8 | 337.7 | 240.6 | 246.7 |
| 120° | 505.5 | 586.4 | 521.7 | 329.6 | 242.6 | 250.7 |
| 122.5° | 491.4 | 570.2 | 501.5 | 319.5 | 242.6 | 248.7 |
| 125° | 465.1 | 548.0 | 477.2 | 307.4 | 238.6 | 244.7 |
| 127.5° | 436.8 | 515.6 | 446.9 | 293.2 | 240.6 | 236.6 |
| 130° | 410.5 | 479.2 | 416.5 | 279.0 | 232.5 | 226.5 |
| 132.5° | 376.1 | 438.8 | 382.2 | 268.9 | 224.4 | 216.4 |
| 135° | 343.7 | 400.4 | 351.8 | 260.8 | 214.3 | 206.2 |
| 137.5° | 309.4 | 359.9 | 317.5 | 244.7 | 204.2 | 196.1 |
| 140° | 268.9 | 309.4 | 277.0 | 226.5 | 198.2 | 186.0 |
| 142.5° | 242.6 | 264.9 | 250.7 | 218.4 | 190.1 | 173.9 |
| 145° | 226.5 | 238.6 | 232.5 | 210.3 | 186.0 | 161.8 |
| 147.5° | 210.3 | 222.4 | 216.4 | 194.1 | 175.9 | 151.7 |
| 150° | 204.2 | 204.2 | 212.3 | 180.0 | 169.9 | 145.6 |
| 152.5° | 182.0 | 198.2 | 190.1 | 163.8 | 165.8 | 143.6 |
| 155° | 155.7 | 163.8 | 163.8 | 157.7 | 165.8 | 143.6 |
| 157.5° | 145.6 | 151.7 | 153.7 | 157.7 | 161.8 | 141.5 |
| 160° | 145.6 | 147.6 | 153.7 | 159.7 | 159.7 | 141.5 |
| 162.5° | 149.6 | 147.6 | 157.7 | 163.8 | 155.7 | 141.5 |
| 165° | 153.7 | 151.7 | 161.8 | 165.8 | 151.7 | 141.5 |
| 167.5° | 157.7 | 157.7 | 165.8 | 163.8 | 147.6 | 141.5 |
| 170° | 157.7 | 161.8 | 165.8 | 157.7 | 145.6 | 141.5 |
| 172.5° | 151.7 | 153.7 | 157.7 | 147.6 | 139.5 | 141.5 |
| 175° | 143.6 | 141.5 | 147.6 | 141.5 | 139.5 | 139.5 |
| 177.5° | 139.5 | 133.5 | 139.5 | 137.5 | 135.5 | 137.5 |
| 180° | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 | 135.5 |

(END OF REPORT)