

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: P197422

Luminaire Tested: **8WSL-LD2-80-UPL8-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28106)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U
Description: 8FT. Linear Wavestream System, 8% Uplight, L835
Light Source: (476) 3500K CCT, 80 CRI LEDS
EL236N0119D835
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

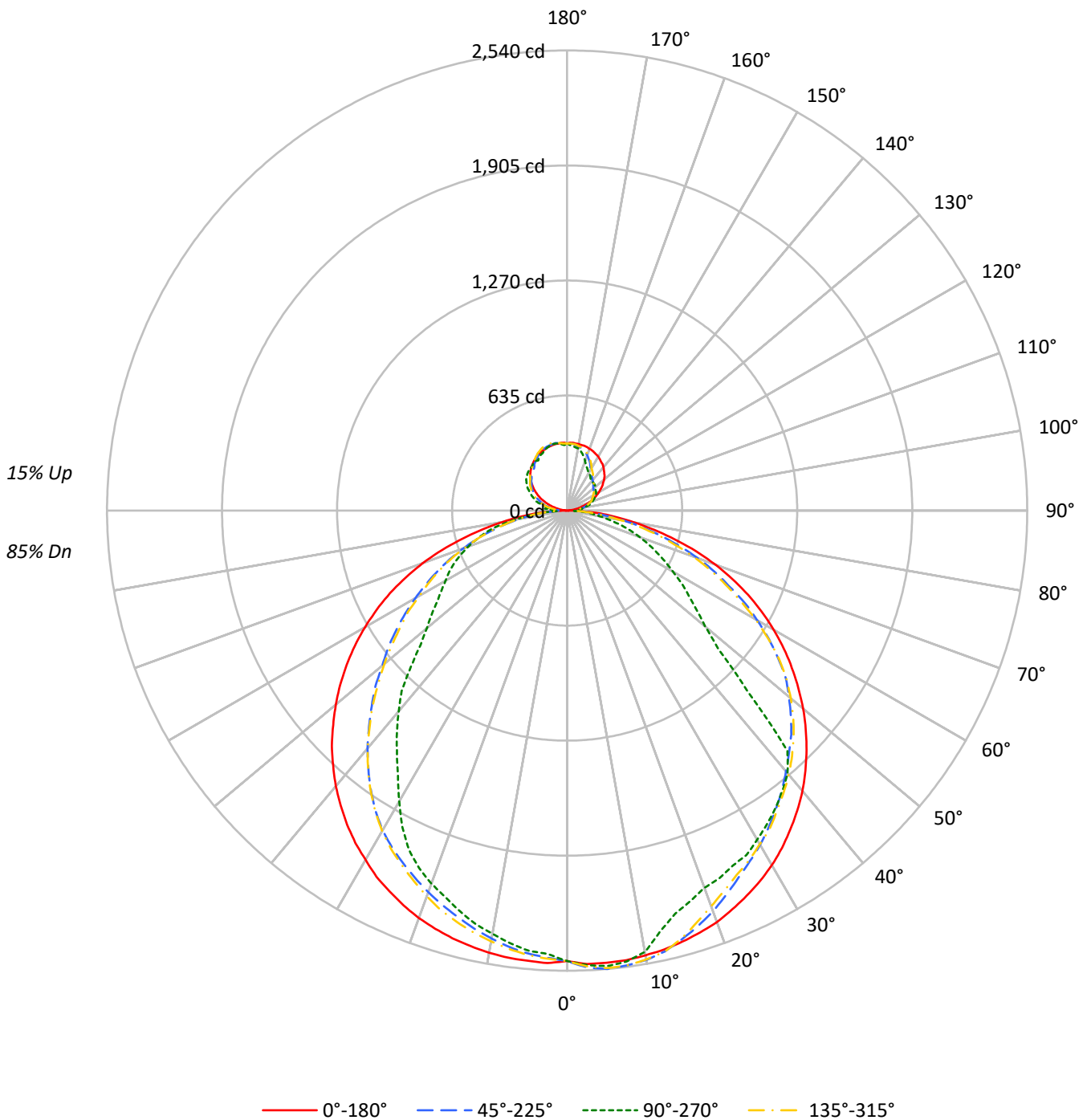
Lumens per Lamp: N/A
Luminaire Lumens: 8248.2 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.19 / 1.36
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.1
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: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 95 | 95 | 95 | 88 | 88 | 88 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 105 | 101 | 96 | 92 | 101 | 97 | 93 | 90 | 90 | 87 | 84 | 83 | 81 | 79 | 78 | 76 | 74 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 96 | 88 | 81 | 75 | 92 | 84 | 78 | 73 | 78 | 73 | 69 | 73 | 69 | 65 | 68 | 65 | 62 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 87 | 77 | 69 | 62 | 83 | 74 | 67 | 61 | 69 | 63 | 58 | 64 | 59 | 55 | 60 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 80 | 68 | 59 | 53 | 76 | 66 | 58 | 52 | 61 | 55 | 49 | 57 | 52 | 47 | 53 | 49 | 45 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 73 | 61 | 52 | 45 | 70 | 59 | 51 | 44 | 55 | 48 | 43 | 51 | 45 | 41 | 48 | 43 | 39 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 55 | 46 | 40 | 65 | 53 | 45 | 39 | 50 | 43 | 37 | 47 | 40 | 36 | 44 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 49 | 41 | 35 | 60 | 48 | 40 | 34 | 45 | 38 | 33 | 42 | 36 | 32 | 40 | 35 | 31 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 30 | 41 | 34 | 29 | 39 | 33 | 28 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 27 | 38 | 31 | 26 | 36 | 30 | 26 | 34 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 30 | 25 | 49 | 37 | 30 | 25 | 35 | 28 | 24 | 33 | 27 | 23 | 31 | 26 | 22 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 7044 | 7044 | 7044 | 7044 |
| 5° | 7124 | 7177 | 7094 | 6935 |
| 10° | 7168 | 7114 | 7130 | 6823 |
| 15° | 7222 | 6754 | 7167 | 6715 |
| 20° | 7287 | 6677 | 7215 | 6605 |
| 25° | 7331 | 6757 | 7248 | 6457 |
| 30° | 7393 | 6862 | 7280 | 6061 |
| 35° | 7430 | 6933 | 7319 | 5662 |
| 40° | 7472 | 7000 | 7344 | 5346 |
| 45° | 7487 | 5632 | 7359 | 4885 |
| 50° | 7497 | 4376 | 7345 | 4458 |
| 55° | 7481 | 4050 | 7337 | 4326 |
| 60° | 7466 | 3816 | 7300 | 4389 |
| 65° | 7388 | 3658 | 7227 | 4604 |
| 70° | 7189 | 3528 | 7012 | 4807 |
| 75° | 6731 | 3322 | 6527 | 5071 |
| 80° | 6124 | 3041 | 5863 | 4820 |
| 85° | 5970 | 3289 | 5366 | 4326 |



TEST NUMBER: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 236.4 | 2.9 |
| 10°-20° | 671.3 | 8.1 |
| 20°-30° | 1016.2 | 12.3 |
| 30°-40° | 1227.1 | 14.9 |
| 40°-50° | 1252.8 | 15.2 |
| 50°-60° | 1095.3 | 13.3 |
| 60°-70° | 848.9 | 10.3 |
| 70°-80° | 510.4 | 6.2 |
| 80°-90° | 157.6 | 1.9 |
| 90°-100° | 66.4 | 0.8 |
| 100°-110° | 127.0 | 1.5 |
| 110°-120° | 172.5 | 2.1 |
| 120°-130° | 196.2 | 2.4 |
| 130°-140° | 199.0 | 2.4 |
| 140°-150° | 183.1 | 2.2 |
| 150°-160° | 151.1 | 1.8 |
| 160°-170° | 101.6 | 1.2 |
| 170°-180° | 35.3 | 0.4 |
| 0°-30° | 1923.9 | 23.3 |
| 0°-40° | 3151.0 | 38.2 |
| 0°-60° | 5499.1 | 66.7 |
| 0°-90° | 7016.0 | 85.1 |
| 90°-120° | 366.0 | 4.4 |
| 90°-150° | 944.2 | 11.4 |
| 90°-180° | 1232.0 | 14.9 |
| 0°-180° | 8248.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2487 | 2487 | 2487 | 2487 | 2487 | |
| 5° | 2505 | 2524 | 2495 | 2439 | 2505 | 239 |
| 15° | 2463 | 2303 | 2444 | 2290 | 2463 | 696 |
| 25° | 2346 | 2162 | 2319 | 2066 | 2346 | 1083 |
| 35° | 2149 | 2005 | 2117 | 1637 | 2149 | 1345 |
| 45° | 1869 | 1406 | 1837 | 1219 | 1869 | 1442 |
| 55° | 1515 | 820 | 1486 | 876 | 1515 | 1354 |
| 65° | 1102 | 546 | 1078 | 687 | 1102 | 1088 |
| 75° | 615 | 304 | 596 | 463 | 615 | 653 |
| 85° | 184 | 101 | 165 | 133 | 184 | 185 |
| 90° | 3 | 56 | 3 | 64 | 3 | 12 |
| 95° | 16 | 77 | 16 | 122 | 16 | 20 |
| 105° | 85 | 130 | 82 | 165 | 85 | 91 |
| 115° | 165 | 168 | 162 | 224 | 165 | 163 |
| 125° | 237 | 192 | 232 | 274 | 237 | 210 |
| 135° | 290 | 210 | 288 | 304 | 290 | 224 |
| 145° | 328 | 224 | 325 | 322 | 328 | 206 |
| 155° | 354 | 261 | 351 | 341 | 354 | 163 |
| 165° | 370 | 325 | 367 | 370 | 370 | 104 |
| 175° | 375 | 357 | 375 | 367 | 375 | 36 |
| 180° | 370 | 370 | 370 | 370 | 370 | |



TEST NUMBER: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 |
| 2.5° | 2505.4 | 2492.1 | 2524.0 | 2529.3 | 2510.7 | 2516.0 | 2518.7 | 2489.4 | 2500.0 | 2460.1 | 2470.8 |
| 5° | 2505.4 | 2502.7 | 2540.0 | 2534.7 | 2524.0 | 2526.7 | 2534.7 | 2500.0 | 2494.7 | 2446.8 | 2454.8 |
| 7.5° | 2502.7 | 2508.0 | 2532.0 | 2526.7 | 2510.7 | 2518.7 | 2532.0 | 2505.4 | 2489.4 | 2433.5 | 2430.8 |
| 10° | 2492.1 | 2500.0 | 2518.7 | 2502.7 | 2473.4 | 2486.7 | 2516.0 | 2500.0 | 2478.7 | 2412.2 | 2398.9 |
| 12.5° | 2481.4 | 2486.7 | 2492.1 | 2425.5 | 2377.6 | 2409.5 | 2492.1 | 2486.7 | 2462.8 | 2388.2 | 2364.3 |
| 15° | 2462.8 | 2470.8 | 2449.5 | 2353.6 | 2303.0 | 2335.0 | 2444.1 | 2465.4 | 2444.1 | 2353.6 | 2324.3 |
| 17.5° | 2441.5 | 2449.5 | 2404.2 | 2297.7 | 2260.4 | 2276.4 | 2382.9 | 2438.8 | 2420.2 | 2321.7 | 2284.4 |
| 20° | 2417.5 | 2425.5 | 2353.6 | 2239.1 | 2215.2 | 2228.5 | 2324.3 | 2409.5 | 2393.5 | 2284.4 | 2241.8 |
| 22.5° | 2382.9 | 2396.2 | 2295.0 | 2199.2 | 2196.5 | 2196.5 | 2268.4 | 2374.9 | 2358.9 | 2239.1 | 2193.9 |
| 25° | 2345.6 | 2358.9 | 2236.5 | 2161.9 | 2161.9 | 2161.9 | 2217.8 | 2329.6 | 2319.0 | 2191.2 | 2145.9 |
| 27.5° | 2305.7 | 2319.0 | 2183.2 | 2135.3 | 2143.3 | 2130.0 | 2175.2 | 2279.1 | 2279.1 | 2143.3 | 2095.3 |
| 30° | 2260.4 | 2273.7 | 2130.0 | 2092.7 | 2098.0 | 2092.7 | 2127.3 | 2225.8 | 2225.8 | 2087.4 | 2036.8 |
| 32.5° | 2207.2 | 2220.5 | 2071.4 | 2042.1 | 2052.8 | 2047.4 | 2082.0 | 2172.6 | 2175.2 | 2028.8 | 1967.6 |
| 35° | 2148.6 | 2164.6 | 2010.2 | 1994.2 | 2004.8 | 1996.8 | 2020.8 | 2116.6 | 2116.6 | 1964.9 | 1887.7 |
| 37.5° | 2087.4 | 2103.3 | 1946.3 | 1940.9 | 1951.6 | 1943.6 | 1962.2 | 2058.1 | 2052.8 | 1898.3 | 1802.5 |
| 40° | 2020.8 | 2039.4 | 1879.7 | 1879.7 | 1893.0 | 1887.7 | 1903.7 | 1996.8 | 1986.2 | 1831.8 | 1714.6 |
| 42.5° | 1946.3 | 1970.2 | 1813.1 | 1815.8 | 1799.8 | 1821.1 | 1837.1 | 1932.9 | 1911.6 | 1757.2 | 1618.8 |
| 45° | 1869.0 | 1898.3 | 1749.2 | 1701.3 | 1405.8 | 1682.7 | 1767.9 | 1869.0 | 1837.1 | 1682.7 | 1525.6 |
| 47.5° | 1786.5 | 1823.8 | 1674.7 | 1499.0 | 1131.5 | 1475.0 | 1693.3 | 1789.2 | 1751.9 | 1602.8 | 1435.1 |
| 50° | 1701.3 | 1743.9 | 1597.5 | 1325.9 | 993.1 | 1299.3 | 1610.8 | 1709.3 | 1666.7 | 1520.3 | 1331.2 |
| 52.5° | 1608.1 | 1656.0 | 1522.9 | 1174.1 | 899.9 | 1150.2 | 1525.6 | 1632.1 | 1578.8 | 1432.4 | 1246.0 |
| 55° | 1514.9 | 1565.5 | 1421.7 | 1043.7 | 820.0 | 1022.4 | 1427.1 | 1533.6 | 1485.6 | 1341.9 | 1152.8 |
| 57.5° | 1419.1 | 1469.7 | 1320.6 | 929.2 | 750.8 | 907.9 | 1315.3 | 1443.0 | 1389.8 | 1248.7 | 1059.7 |
| 60° | 1317.9 | 1368.5 | 1211.4 | 825.4 | 673.6 | 809.4 | 1200.8 | 1341.9 | 1288.6 | 1152.8 | 969.1 |
| 62.5° | 1211.4 | 1262.0 | 1107.6 | 729.5 | 609.7 | 716.2 | 1075.6 | 1243.4 | 1184.8 | 1051.7 | 875.9 |
| 65° | 1102.3 | 1139.5 | 985.1 | 639.0 | 545.8 | 628.3 | 963.8 | 1120.9 | 1078.3 | 945.2 | 788.1 |
| 67.5° | 987.8 | 1025.0 | 878.6 | 559.1 | 484.6 | 548.5 | 854.6 | 1011.7 | 963.8 | 841.3 | 700.2 |
| 70° | 868.0 | 899.9 | 766.8 | 481.9 | 426.0 | 473.9 | 740.2 | 889.3 | 846.7 | 732.2 | 607.0 |
| 72.5° | 745.5 | 774.8 | 647.0 | 410.0 | 364.8 | 404.7 | 620.4 | 766.8 | 724.2 | 617.7 | 521.8 |
| 75° | 615.0 | 644.3 | 535.2 | 338.1 | 303.5 | 332.8 | 511.2 | 636.3 | 596.4 | 508.5 | 434.0 |
| 77.5° | 492.6 | 527.2 | 423.3 | 266.2 | 242.3 | 260.9 | 402.0 | 513.9 | 473.9 | 407.4 | 348.8 |
| 80° | 375.4 | 404.7 | 314.2 | 202.3 | 186.4 | 199.7 | 292.9 | 391.4 | 359.4 | 314.2 | 271.6 |
| 82.5° | 271.6 | 287.5 | 215.7 | 149.1 | 141.1 | 146.4 | 199.7 | 276.9 | 260.9 | 226.3 | 199.7 |
| 85° | 183.7 | 181.0 | 133.1 | 103.8 | 101.2 | 103.8 | 119.8 | 167.7 | 165.1 | 151.8 | 127.8 |
| 87.5° | 77.2 | 71.9 | 61.2 | 42.6 | 37.3 | 39.9 | 47.9 | 63.9 | 61.2 | 63.9 | 61.2 |
| 90° | 2.7 | 26.6 | 42.6 | 53.2 | 55.9 | 53.2 | 42.6 | 26.6 | 2.7 | 29.3 | 47.9 |
| 92.5° | 5.3 | 34.6 | 50.6 | 58.6 | 63.9 | 58.6 | 47.9 | 34.6 | 5.3 | 45.3 | 47.9 |
| 95° | 16.0 | 47.9 | 58.6 | 71.9 | 77.2 | 71.9 | 58.6 | 45.3 | 16.0 | 39.9 | 71.9 |
| 97.5° | 31.9 | 61.2 | 69.2 | 79.9 | 82.5 | 77.2 | 66.6 | 61.2 | 29.3 | 71.9 | 74.5 |
| 100° | 47.9 | 77.2 | 90.5 | 90.5 | 93.2 | 90.5 | 87.9 | 74.5 | 45.3 | 79.9 | 90.5 |
| 102.5° | 66.6 | 87.9 | 103.8 | 111.8 | 111.8 | 111.8 | 103.8 | 87.9 | 61.2 | 98.5 | 125.1 |
| 105° | 85.2 | 95.8 | 114.5 | 125.1 | 130.5 | 125.1 | 114.5 | 98.5 | 82.5 | 114.5 | 133.1 |
| 107.5° | 106.5 | 103.8 | 125.1 | 135.8 | 141.1 | 135.8 | 125.1 | 106.5 | 101.2 | 127.8 | 149.1 |
| 110° | 127.8 | 114.5 | 135.8 | 146.4 | 149.1 | 146.4 | 135.8 | 114.5 | 122.5 | 143.8 | 165.1 |



TEST NUMBER: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 146.4 | 122.5 | 146.4 | 157.1 | 159.7 | 157.1 | 146.4 | 125.1 | 141.1 | 154.4 | 181.0 |
| 115° | 165.1 | 130.5 | 151.8 | 165.1 | 167.7 | 165.1 | 151.8 | 133.1 | 162.4 | 167.7 | 194.4 |
| 117.5° | 183.7 | 141.1 | 157.1 | 173.1 | 175.7 | 173.1 | 159.7 | 143.8 | 181.0 | 183.7 | 207.7 |
| 120° | 202.3 | 154.4 | 165.1 | 178.4 | 183.7 | 181.0 | 165.1 | 157.1 | 197.0 | 197.0 | 218.3 |
| 122.5° | 218.3 | 165.1 | 173.1 | 183.7 | 189.0 | 183.7 | 173.1 | 170.4 | 215.7 | 210.3 | 231.6 |
| 125° | 237.0 | 175.7 | 178.4 | 189.0 | 191.7 | 189.0 | 181.0 | 178.4 | 231.6 | 221.0 | 239.6 |
| 127.5° | 250.3 | 189.0 | 183.7 | 194.4 | 197.0 | 194.4 | 186.4 | 191.7 | 247.6 | 242.3 | 247.6 |
| 130° | 266.2 | 202.3 | 189.0 | 199.7 | 202.3 | 202.3 | 189.0 | 207.7 | 260.9 | 258.3 | 258.3 |
| 132.5° | 279.6 | 215.7 | 194.4 | 205.0 | 207.7 | 207.7 | 197.0 | 218.3 | 274.2 | 271.6 | 266.2 |
| 135° | 290.2 | 234.3 | 205.0 | 205.0 | 210.3 | 210.3 | 207.7 | 237.0 | 287.5 | 284.9 | 279.6 |
| 137.5° | 300.9 | 250.3 | 213.0 | 207.7 | 210.3 | 210.3 | 218.3 | 252.9 | 298.2 | 298.2 | 287.5 |
| 140° | 311.5 | 266.2 | 218.3 | 213.0 | 213.0 | 218.3 | 226.3 | 268.9 | 308.8 | 308.8 | 290.2 |
| 142.5° | 322.2 | 279.6 | 226.3 | 221.0 | 215.7 | 226.3 | 234.3 | 284.9 | 316.8 | 319.5 | 298.2 |
| 145° | 327.5 | 292.9 | 237.0 | 229.0 | 223.6 | 237.0 | 247.6 | 298.2 | 324.8 | 330.1 | 314.2 |
| 147.5° | 335.5 | 306.2 | 250.3 | 234.3 | 234.3 | 242.3 | 258.3 | 308.8 | 332.8 | 338.1 | 322.2 |
| 150° | 343.5 | 316.8 | 260.9 | 242.3 | 237.0 | 250.3 | 268.9 | 319.5 | 340.8 | 346.1 | 332.8 |
| 152.5° | 348.8 | 327.5 | 276.9 | 252.9 | 247.6 | 263.6 | 287.5 | 327.5 | 346.1 | 351.4 | 343.5 |
| 155° | 354.1 | 335.5 | 295.5 | 263.6 | 260.9 | 274.2 | 303.5 | 335.5 | 351.4 | 356.8 | 351.4 |
| 157.5° | 359.4 | 343.5 | 308.8 | 279.6 | 268.9 | 290.2 | 316.8 | 346.1 | 356.8 | 362.1 | 359.4 |
| 160° | 362.1 | 348.8 | 324.8 | 295.5 | 290.2 | 308.8 | 330.1 | 348.8 | 359.4 | 367.4 | 364.8 |
| 162.5° | 367.4 | 354.1 | 335.5 | 314.2 | 308.8 | 324.8 | 340.8 | 356.8 | 364.8 | 370.1 | 370.1 |
| 165° | 370.1 | 359.4 | 346.1 | 330.1 | 324.8 | 340.8 | 348.8 | 362.1 | 367.4 | 370.1 | 372.7 |
| 167.5° | 370.1 | 364.8 | 354.1 | 340.8 | 338.1 | 351.4 | 359.4 | 367.4 | 370.1 | 370.1 | 375.4 |
| 170° | 372.7 | 367.4 | 359.4 | 351.4 | 348.8 | 359.4 | 362.1 | 370.1 | 372.7 | 370.1 | 378.1 |
| 172.5° | 372.7 | 370.1 | 364.8 | 356.8 | 351.4 | 364.8 | 367.4 | 370.1 | 372.7 | 370.1 | 375.4 |
| 175° | 375.4 | 370.1 | 370.1 | 364.8 | 356.8 | 370.1 | 370.1 | 370.1 | 375.4 | 370.1 | 372.7 |
| 177.5° | 375.4 | 370.1 | 370.1 | 367.4 | 362.1 | 370.1 | 370.1 | 370.1 | 375.4 | 370.1 | 372.7 |
| 180° | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 |



TEST NUMBER: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 | 2486.7 |
| 2.5° | 2468.1 | 2449.5 | 2454.8 | 2476.1 | 2468.1 | 2505.4 |
| 5° | 2449.5 | 2438.8 | 2438.8 | 2462.8 | 2460.1 | 2505.4 |
| 7.5° | 2420.2 | 2409.5 | 2414.8 | 2441.5 | 2446.8 | 2502.7 |
| 10° | 2385.6 | 2372.2 | 2377.6 | 2414.8 | 2428.2 | 2492.1 |
| 12.5° | 2348.3 | 2337.6 | 2343.0 | 2385.6 | 2404.2 | 2481.4 |
| 15° | 2305.7 | 2289.7 | 2305.7 | 2350.9 | 2374.9 | 2462.8 |
| 17.5° | 2257.8 | 2236.5 | 2255.1 | 2313.7 | 2343.0 | 2441.5 |
| 20° | 2209.8 | 2191.2 | 2201.8 | 2265.7 | 2308.3 | 2417.5 |
| 22.5° | 2161.9 | 2135.3 | 2145.9 | 2212.5 | 2265.7 | 2382.9 |
| 25° | 2106.0 | 2066.1 | 2087.4 | 2159.2 | 2220.5 | 2345.6 |
| 27.5° | 2031.5 | 1970.2 | 2015.5 | 2106.0 | 2167.2 | 2305.7 |
| 30° | 1932.9 | 1853.1 | 1919.6 | 2042.1 | 2111.3 | 2260.4 |
| 32.5° | 1823.8 | 1738.6 | 1813.1 | 1970.2 | 2052.8 | 2207.2 |
| 35° | 1714.6 | 1637.4 | 1704.0 | 1890.3 | 1991.5 | 2148.6 |
| 37.5° | 1610.8 | 1544.2 | 1605.5 | 1805.1 | 1927.6 | 2087.4 |
| 40° | 1512.3 | 1445.7 | 1509.6 | 1712.0 | 1858.4 | 2020.8 |
| 42.5° | 1413.8 | 1352.5 | 1413.8 | 1613.4 | 1786.5 | 1946.3 |
| 45° | 1315.3 | 1219.4 | 1309.9 | 1517.6 | 1709.3 | 1869.0 |
| 47.5° | 1208.8 | 1096.9 | 1200.8 | 1413.8 | 1626.8 | 1786.5 |
| 50° | 1107.6 | 1011.7 | 1102.3 | 1317.9 | 1541.6 | 1701.3 |
| 52.5° | 1019.7 | 942.5 | 1014.4 | 1219.4 | 1453.7 | 1608.1 |
| 55° | 937.2 | 875.9 | 937.2 | 1123.6 | 1360.5 | 1514.9 |
| 57.5° | 862.6 | 822.7 | 865.3 | 1041.0 | 1264.7 | 1419.1 |
| 60° | 798.7 | 774.8 | 801.4 | 939.8 | 1168.8 | 1317.9 |
| 62.5° | 737.5 | 734.8 | 740.2 | 860.0 | 1067.6 | 1211.4 |
| 65° | 673.6 | 686.9 | 673.6 | 774.8 | 966.5 | 1102.3 |
| 67.5° | 609.7 | 636.3 | 615.0 | 689.6 | 857.3 | 987.8 |
| 70° | 551.1 | 580.4 | 551.1 | 601.7 | 748.1 | 868.0 |
| 72.5° | 484.6 | 521.8 | 484.6 | 519.2 | 633.7 | 745.5 |
| 75° | 420.7 | 463.3 | 423.3 | 434.0 | 524.5 | 615.0 |
| 77.5° | 351.4 | 391.4 | 359.4 | 351.4 | 423.3 | 492.6 |
| 80° | 279.6 | 295.5 | 279.6 | 276.9 | 327.5 | 375.4 |
| 82.5° | 194.4 | 207.7 | 194.4 | 202.3 | 239.6 | 271.6 |
| 85° | 127.8 | 133.1 | 127.8 | 130.5 | 159.7 | 183.7 |
| 87.5° | 53.2 | 53.2 | 53.2 | 66.6 | 71.9 | 77.2 |
| 90° | 58.6 | 63.9 | 58.6 | 47.9 | 29.3 | 2.7 |
| 92.5° | 61.2 | 66.6 | 61.2 | 53.2 | 34.6 | 5.3 |
| 95° | 109.2 | 122.5 | 103.8 | 66.6 | 55.9 | 16.0 |
| 97.5° | 87.9 | 95.8 | 90.5 | 77.2 | 69.2 | 31.9 |
| 100° | 103.8 | 111.8 | 103.8 | 109.2 | 85.2 | 47.9 |
| 102.5° | 122.5 | 127.8 | 125.1 | 127.8 | 103.8 | 66.6 |
| 105° | 159.7 | 165.1 | 159.7 | 138.4 | 119.8 | 85.2 |
| 107.5° | 170.4 | 183.7 | 173.1 | 154.4 | 135.8 | 106.5 |
| 110° | 183.7 | 194.4 | 186.4 | 170.4 | 149.1 | 127.8 |



TEST NUMBER: P197422

CATALOG NUMBER: 8WSL-LD2-80-UPL8-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 197.0 | 210.3 | 202.3 | 189.0 | 159.7 | 146.4 |
| 115° | 213.0 | 223.6 | 218.3 | 202.3 | 175.7 | 165.1 |
| 117.5° | 229.0 | 237.0 | 231.6 | 213.0 | 191.7 | 183.7 |
| 120° | 242.3 | 252.9 | 247.6 | 226.3 | 205.0 | 202.3 |
| 122.5° | 252.9 | 263.6 | 258.3 | 239.6 | 218.3 | 218.3 |
| 125° | 263.6 | 274.2 | 268.9 | 250.3 | 229.0 | 237.0 |
| 127.5° | 271.6 | 284.9 | 279.6 | 258.3 | 252.9 | 250.3 |
| 130° | 282.2 | 290.2 | 287.5 | 266.2 | 266.2 | 266.2 |
| 132.5° | 287.5 | 298.2 | 292.9 | 276.9 | 282.2 | 279.6 |
| 135° | 290.2 | 303.5 | 298.2 | 290.2 | 295.5 | 290.2 |
| 137.5° | 295.5 | 306.2 | 303.5 | 298.2 | 308.8 | 300.9 |
| 140° | 303.5 | 308.8 | 311.5 | 303.5 | 319.5 | 311.5 |
| 142.5° | 311.5 | 314.2 | 319.5 | 311.5 | 330.1 | 322.2 |
| 145° | 316.8 | 322.2 | 327.5 | 327.5 | 338.1 | 327.5 |
| 147.5° | 316.8 | 324.8 | 324.8 | 332.8 | 348.8 | 335.5 |
| 150° | 324.8 | 319.5 | 335.5 | 343.5 | 354.1 | 343.5 |
| 152.5° | 335.5 | 332.8 | 346.1 | 354.1 | 359.4 | 348.8 |
| 155° | 338.1 | 340.8 | 348.8 | 362.1 | 364.8 | 354.1 |
| 157.5° | 348.8 | 346.1 | 359.4 | 370.1 | 370.1 | 359.4 |
| 160° | 356.8 | 356.8 | 370.1 | 375.4 | 372.7 | 362.1 |
| 162.5° | 364.8 | 364.8 | 378.1 | 378.1 | 375.4 | 367.4 |
| 165° | 370.1 | 370.1 | 383.4 | 380.7 | 375.4 | 370.1 |
| 167.5° | 372.7 | 375.4 | 386.1 | 383.4 | 375.4 | 370.1 |
| 170° | 375.4 | 375.4 | 386.1 | 380.7 | 375.4 | 372.7 |
| 172.5° | 375.4 | 372.7 | 383.4 | 378.1 | 372.7 | 372.7 |
| 175° | 372.7 | 367.4 | 378.1 | 372.7 | 372.7 | 375.4 |
| 177.5° | 370.1 | 362.1 | 370.1 | 370.1 | 372.7 | 375.4 |
| 180° | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 | 370.1 |

(END OF REPORT)