

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: CORELITE

Report Number: P242645

Luminaire Tested: **CL4DR-A-80D840-UNV-STD-W-4**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P242645
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: CORELITE
Catalog Number: CL4DR-A-80D840-UNV-STD-W-4
Description: CL 4" DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

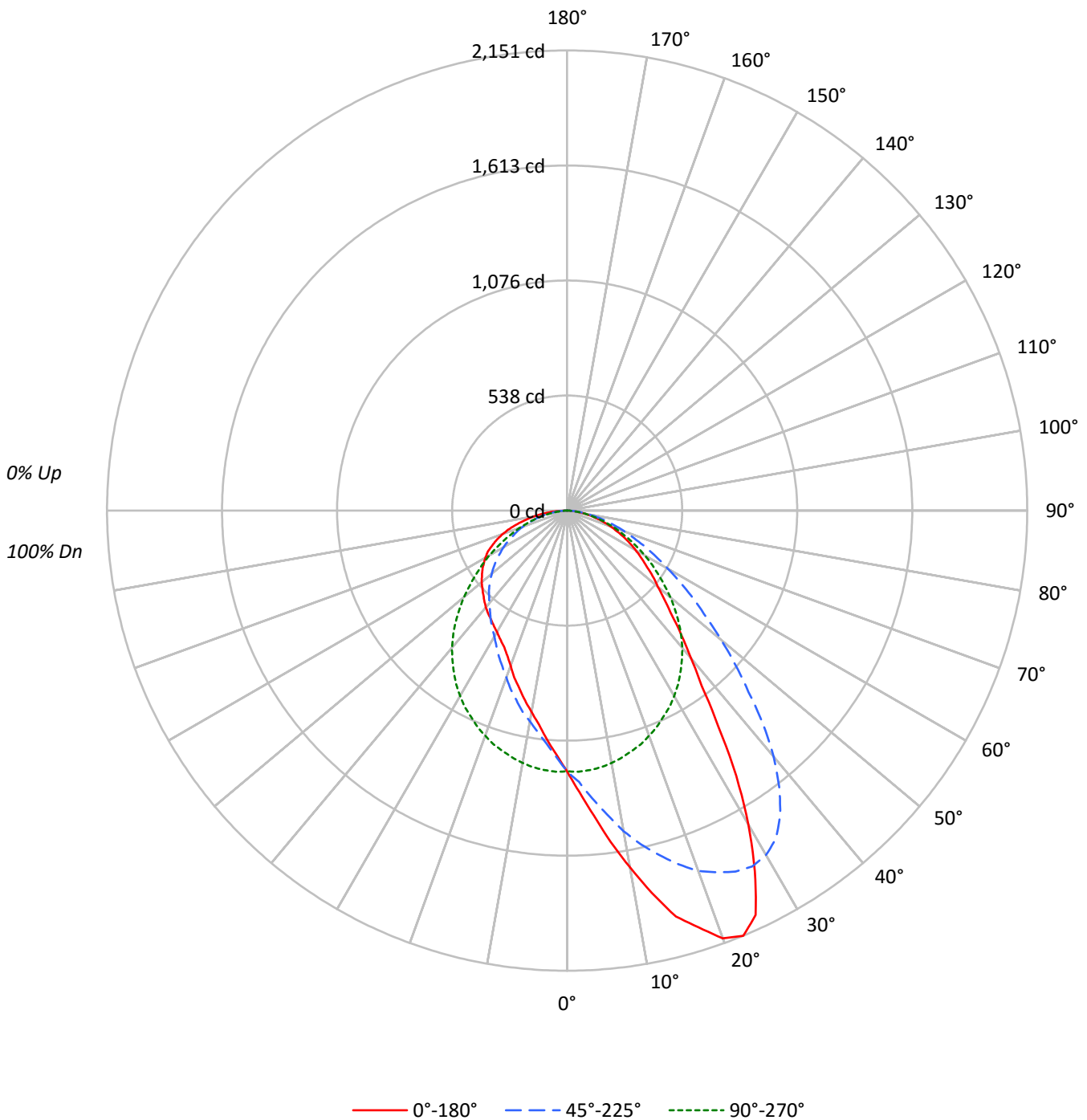
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3363.5 lumens
Efficiency: N/A
Efficacy: 127.4 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): 26.4
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: P242645
CATALOG NUMBER: CL4DR-A-80D840-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P242645

CATALOG NUMBER: CL4DR-A-80D840-UNV-STD-W-4

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 10835 | 10835 | 10835 |
| 5° | 12760 | 10863 | 9588 |
| 10° | 15277 | 10815 | 8632 |
| 15° | 18076 | 10706 | 7927 |
| 20° | 20128 | 10594 | 7298 |
| 25° | 20453 | 10430 | 6864 |
| 30° | 17404 | 10272 | 6727 |
| 35° | 13381 | 10016 | 6729 |
| 40° | 10429 | 9715 | 6855 |
| 45° | 8696 | 9261 | 6969 |
| 50° | 7653 | 8708 | 7206 |
| 55° | 7011 | 8045 | 7496 |
| 60° | 6571 | 7451 | 7845 |
| 65° | 6116 | 6787 | 8136 |
| 70° | 5590 | 6128 | 8319 |
| 75° | 4994 | 5392 | 8219 |
| 80° | 4187 | 4418 | 7960 |
| 85° | 3090 | 3192 | 7619 |



TEST NUMBER: P242645

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.6 | 3.5 |
| 10°-20° | 366.2 | 10.9 |
| 20°-30° | 581.7 | 17.3 |
| 30°-40° | 646.3 | 19.2 |
| 40°-50° | 587.8 | 17.5 |
| 50°-60° | 480.3 | 14.3 |
| 60°-70° | 342.9 | 10.2 |
| 70°-80° | 188.6 | 5.6 |
| 80°-90° | 51.0 | 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° | 1066.5 | 31.7 |
| 0°-40° | 1712.8 | 50.9 |
| 0°-60° | 2781.0 | 82.7 |
| 0°-90° | 3363.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3363.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1219 | 1219 | 1219 | 1219 | 1219 | |
| 5° | 1430 | 1351 | 1217 | 1094 | 1074 | 145 |
| 15° | 1964 | 1667 | 1163 | 917 | 861 | 555 |
| 25° | 2085 | 1862 | 1063 | 754 | 700 | 925 |
| 35° | 1233 | 1736 | 923 | 623 | 620 | 781 |
| 45° | 692 | 1199 | 737 | 516 | 554 | 544 |
| 55° | 452 | 722 | 519 | 403 | 484 | 408 |
| 65° | 291 | 402 | 323 | 280 | 387 | 288 |
| 75° | 145 | 187 | 157 | 156 | 239 | 154 |
| 85° | 30 | 39 | 31 | 44 | 75 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242645

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 |
| 2.5° | 1316.9 | 1316.4 | 1311.3 | 1310.3 | 1306.8 | 1302.2 | 1301.2 | 1293.1 | 1277.0 | 1269.4 | 1267.4 |
| 5° | 1430.0 | 1440.1 | 1426.9 | 1424.4 | 1422.9 | 1406.2 | 1397.7 | 1387.6 | 1364.3 | 1350.7 | 1340.1 |
| 7.5° | 1562.3 | 1562.8 | 1557.2 | 1551.7 | 1542.1 | 1527.9 | 1508.7 | 1486.5 | 1459.8 | 1432.5 | 1413.3 |
| 10° | 1692.5 | 1696.6 | 1690.0 | 1689.0 | 1663.3 | 1647.1 | 1614.8 | 1587.5 | 1556.2 | 1521.4 | 1489.6 |
| 12.5° | 1829.9 | 1821.8 | 1819.3 | 1792.5 | 1793.0 | 1760.2 | 1721.3 | 1693.0 | 1640.5 | 1599.1 | 1554.2 |
| 15° | 1964.2 | 1953.1 | 1946.0 | 1916.2 | 1901.6 | 1860.7 | 1820.8 | 1790.0 | 1726.9 | 1666.8 | 1621.3 |
| 17.5° | 2042.0 | 2055.6 | 2037.4 | 2025.3 | 1985.4 | 1958.6 | 1918.8 | 1855.6 | 1808.7 | 1733.9 | 1681.9 |
| 20° | 2127.8 | 2128.8 | 2119.7 | 2107.1 | 2077.3 | 2040.9 | 1996.5 | 1925.8 | 1866.7 | 1792.5 | 1713.8 |
| 22.5° | 2151.0 | 2151.0 | 2148.5 | 2136.9 | 2116.2 | 2088.4 | 2043.5 | 1987.4 | 1912.7 | 1830.4 | 1751.6 |
| 25° | 2085.4 | 2083.4 | 2087.9 | 2101.0 | 2092.5 | 2083.4 | 2057.6 | 2013.7 | 1947.0 | 1861.7 | 1776.9 |
| 27.5° | 1899.6 | 1912.7 | 1940.0 | 1972.3 | 1995.5 | 2016.2 | 2014.7 | 1996.0 | 1948.5 | 1874.8 | 1784.4 |
| 30° | 1695.6 | 1712.7 | 1731.9 | 1764.2 | 1826.9 | 1862.7 | 1902.1 | 1931.9 | 1915.2 | 1859.2 | 1776.4 |
| 32.5° | 1471.4 | 1472.4 | 1503.2 | 1541.1 | 1597.1 | 1674.4 | 1742.5 | 1810.7 | 1840.0 | 1817.3 | 1751.6 |
| 35° | 1233.1 | 1240.1 | 1270.9 | 1307.3 | 1377.5 | 1461.8 | 1555.7 | 1639.5 | 1708.7 | 1736.5 | 1701.1 |
| 37.5° | 1033.1 | 1055.3 | 1078.5 | 1119.9 | 1184.1 | 1260.3 | 1361.3 | 1465.8 | 1567.3 | 1628.9 | 1635.5 |
| 40° | 898.8 | 911.4 | 927.1 | 956.9 | 1009.4 | 1084.1 | 1167.9 | 1292.1 | 1401.7 | 1500.7 | 1533.0 |
| 42.5° | 792.7 | 798.8 | 806.9 | 833.1 | 870.0 | 944.2 | 1019.0 | 1124.5 | 1234.6 | 1357.8 | 1417.4 |
| 45° | 691.8 | 699.3 | 715.5 | 731.1 | 761.4 | 812.9 | 884.1 | 974.0 | 1084.6 | 1198.7 | 1298.7 |
| 47.5° | 616.0 | 621.1 | 631.2 | 648.3 | 675.6 | 710.4 | 771.0 | 847.3 | 955.3 | 1065.9 | 1173.0 |
| 50° | 553.4 | 557.4 | 565.0 | 580.2 | 599.9 | 630.2 | 677.6 | 747.8 | 828.1 | 939.7 | 1044.2 |
| 52.5° | 503.9 | 504.9 | 510.0 | 519.1 | 533.7 | 558.0 | 594.8 | 649.9 | 723.1 | 819.5 | 923.5 |
| 55° | 452.4 | 454.4 | 459.5 | 467.1 | 480.7 | 496.9 | 526.6 | 570.1 | 635.2 | 721.6 | 811.9 |
| 57.5° | 410.0 | 412.0 | 416.1 | 419.1 | 431.2 | 444.8 | 469.1 | 500.4 | 551.4 | 628.1 | 710.4 |
| 60° | 369.6 | 368.6 | 373.7 | 376.2 | 383.8 | 394.9 | 412.5 | 442.3 | 485.2 | 544.3 | 618.5 |
| 62.5° | 330.2 | 328.7 | 332.8 | 336.3 | 339.8 | 348.9 | 362.5 | 384.3 | 417.1 | 469.1 | 530.7 |
| 65° | 290.8 | 288.8 | 291.3 | 295.4 | 299.4 | 304.5 | 315.1 | 335.8 | 363.6 | 401.9 | 450.9 |
| 67.5° | 250.4 | 253.0 | 253.0 | 255.5 | 258.0 | 265.1 | 272.7 | 288.8 | 308.5 | 339.8 | 383.2 |
| 70° | 215.1 | 215.6 | 217.6 | 217.6 | 219.1 | 225.2 | 231.3 | 239.8 | 259.0 | 287.3 | 321.1 |
| 72.5° | 179.8 | 182.3 | 180.8 | 182.8 | 183.8 | 187.3 | 191.4 | 199.4 | 215.1 | 234.3 | 261.6 |
| 75° | 145.4 | 146.9 | 146.9 | 147.4 | 149.0 | 150.5 | 154.0 | 160.1 | 171.7 | 187.3 | 207.0 |
| 77.5° | 112.1 | 112.1 | 113.1 | 115.1 | 115.1 | 117.6 | 120.7 | 125.2 | 131.8 | 143.4 | 156.0 |
| 80° | 81.8 | 82.8 | 82.3 | 83.3 | 83.3 | 85.3 | 86.3 | 92.4 | 94.9 | 102.0 | 111.6 |
| 82.5° | 54.5 | 55.5 | 55.5 | 57.1 | 58.1 | 58.1 | 59.6 | 61.1 | 63.6 | 69.7 | 72.2 |
| 85° | 30.3 | 31.3 | 30.3 | 31.3 | 32.8 | 33.3 | 34.8 | 35.3 | 37.4 | 38.9 | 42.4 |
| 87.5° | 11.1 | 12.6 | 12.6 | 13.1 | 14.1 | 14.6 | 15.1 | 14.6 | 16.7 | 17.2 | 19.2 |
| 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: P242645

CATALOG NUMBER: CL4DR-A-80D840-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 |
| 2.5° | 1267.9 | 1260.8 | 1255.8 | 1251.7 | 1240.6 | 1234.1 | 1229.0 | 1221.9 | 1213.9 | 1205.3 | 1194.7 |
| 5° | 1329.5 | 1312.3 | 1299.7 | 1280.5 | 1262.3 | 1247.2 | 1231.5 | 1217.4 | 1200.2 | 1181.5 | 1167.9 |
| 7.5° | 1392.6 | 1368.9 | 1337.1 | 1312.3 | 1282.5 | 1256.8 | 1234.1 | 1210.3 | 1185.1 | 1160.8 | 1138.1 |
| 10° | 1452.2 | 1419.4 | 1383.0 | 1340.1 | 1299.7 | 1263.9 | 1230.5 | 1198.2 | 1166.9 | 1135.6 | 1108.8 |
| 12.5° | 1516.3 | 1473.4 | 1415.3 | 1363.3 | 1316.9 | 1265.9 | 1224.0 | 1182.6 | 1143.2 | 1109.8 | 1077.5 |
| 15° | 1572.4 | 1513.3 | 1451.2 | 1384.0 | 1324.4 | 1268.4 | 1213.4 | 1163.4 | 1121.0 | 1077.5 | 1047.2 |
| 17.5° | 1607.7 | 1534.5 | 1467.8 | 1397.7 | 1329.0 | 1258.8 | 1201.7 | 1145.7 | 1093.2 | 1050.8 | 1012.9 |
| 20° | 1642.6 | 1569.8 | 1481.5 | 1411.3 | 1325.5 | 1252.7 | 1184.1 | 1119.9 | 1064.4 | 1018.5 | 979.1 |
| 22.5° | 1672.9 | 1586.0 | 1497.6 | 1399.7 | 1314.3 | 1236.1 | 1159.3 | 1094.7 | 1037.6 | 988.7 | 951.3 |
| 25° | 1679.9 | 1583.5 | 1487.5 | 1395.6 | 1298.7 | 1207.3 | 1139.1 | 1063.4 | 1002.8 | 951.8 | 911.4 |
| 27.5° | 1682.4 | 1580.4 | 1473.9 | 1373.9 | 1274.0 | 1190.6 | 1101.8 | 1035.6 | 973.0 | 919.0 | 880.6 |
| 30° | 1676.9 | 1569.3 | 1452.7 | 1342.1 | 1241.6 | 1149.2 | 1074.5 | 1000.8 | 936.7 | 883.1 | 842.7 |
| 32.5° | 1659.2 | 1546.1 | 1425.4 | 1306.8 | 1201.7 | 1111.9 | 1034.1 | 964.9 | 902.8 | 850.3 | 807.4 |
| 35° | 1621.9 | 1511.3 | 1383.5 | 1261.8 | 1155.3 | 1063.9 | 994.2 | 923.0 | 860.4 | 810.4 | 769.5 |
| 37.5° | 1571.9 | 1468.9 | 1339.1 | 1212.4 | 1109.8 | 1016.9 | 946.8 | 881.1 | 824.6 | 773.1 | 730.6 |
| 40° | 1502.2 | 1414.3 | 1284.1 | 1161.4 | 1048.2 | 960.9 | 896.3 | 837.2 | 781.1 | 733.2 | 693.3 |
| 42.5° | 1421.9 | 1348.2 | 1230.5 | 1098.7 | 990.7 | 902.8 | 840.2 | 788.7 | 736.7 | 693.3 | 653.4 |
| 45° | 1323.4 | 1272.9 | 1159.8 | 1039.7 | 926.1 | 843.2 | 783.2 | 736.7 | 692.3 | 648.8 | 615.5 |
| 47.5° | 1213.9 | 1185.6 | 1087.1 | 972.0 | 862.9 | 780.1 | 728.1 | 683.7 | 643.3 | 605.4 | 575.6 |
| 50° | 1103.3 | 1091.2 | 1008.9 | 898.8 | 795.8 | 719.0 | 666.5 | 629.7 | 596.3 | 564.0 | 536.2 |
| 52.5° | 994.2 | 996.7 | 924.5 | 826.1 | 732.7 | 659.4 | 607.4 | 573.6 | 545.8 | 521.1 | 496.9 |
| 55° | 882.6 | 896.8 | 838.7 | 748.8 | 663.5 | 596.8 | 549.9 | 519.1 | 498.9 | 477.2 | 458.5 |
| 57.5° | 780.1 | 803.9 | 753.4 | 671.1 | 598.9 | 535.2 | 493.8 | 470.1 | 447.9 | 433.7 | 419.1 |
| 60° | 680.1 | 702.4 | 665.0 | 598.3 | 531.2 | 478.7 | 439.8 | 419.1 | 400.4 | 391.3 | 381.7 |
| 62.5° | 591.3 | 610.5 | 585.2 | 524.6 | 468.6 | 418.6 | 387.3 | 367.6 | 356.5 | 346.4 | 340.8 |
| 65° | 507.5 | 524.1 | 500.4 | 455.5 | 405.5 | 365.1 | 338.3 | 322.7 | 310.5 | 306.5 | 299.4 |
| 67.5° | 424.7 | 439.8 | 427.2 | 387.8 | 345.4 | 313.6 | 292.4 | 275.7 | 268.6 | 264.6 | 260.0 |
| 70° | 352.4 | 367.6 | 354.0 | 320.6 | 289.8 | 264.1 | 244.4 | 235.8 | 228.2 | 226.7 | 219.6 |
| 72.5° | 291.3 | 300.4 | 286.8 | 262.6 | 237.3 | 216.6 | 202.5 | 193.4 | 190.4 | 187.3 | 184.3 |
| 75° | 227.7 | 236.8 | 227.7 | 207.5 | 188.8 | 173.7 | 160.6 | 157.0 | 152.5 | 151.0 | 148.5 |
| 77.5° | 170.7 | 179.3 | 172.2 | 158.5 | 143.9 | 131.3 | 123.7 | 118.7 | 118.2 | 115.1 | 116.1 |
| 80° | 123.2 | 128.3 | 121.7 | 113.1 | 102.0 | 93.9 | 88.9 | 86.3 | 83.3 | 82.3 | 84.3 |
| 82.5° | 79.8 | 81.3 | 78.8 | 73.7 | 66.1 | 61.6 | 58.6 | 55.5 | 55.5 | 56.0 | 55.5 |
| 85° | 45.9 | 45.4 | 44.9 | 39.9 | 37.4 | 33.8 | 31.8 | 31.3 | 30.8 | 31.8 | 32.8 |
| 87.5° | 19.2 | 19.7 | 19.2 | 17.2 | 15.7 | 14.1 | 13.6 | 13.1 | 13.6 | 14.1 | 14.6 |
| 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: P242645

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CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 | 1218.9 |
| 2.5° | 1189.6 | 1185.1 | 1178.5 | 1169.4 | 1161.9 | 1153.8 | 1151.8 | 1148.7 | 1154.8 | 1149.7 | 1148.2 |
| 5° | 1156.3 | 1145.7 | 1132.1 | 1116.4 | 1107.3 | 1094.2 | 1091.7 | 1086.6 | 1081.6 | 1081.1 | 1076.0 |
| 7.5° | 1121.5 | 1106.8 | 1089.7 | 1073.5 | 1059.4 | 1045.2 | 1036.1 | 1035.1 | 1027.0 | 1023.0 | 1018.0 |
| 10° | 1088.1 | 1068.9 | 1048.2 | 1033.1 | 1015.9 | 1000.8 | 990.2 | 984.1 | 979.1 | 973.5 | 968.5 |
| 12.5° | 1048.8 | 1028.0 | 1011.9 | 995.2 | 974.0 | 963.4 | 944.2 | 932.6 | 932.6 | 934.1 | 919.0 |
| 15° | 1020.0 | 999.8 | 973.5 | 950.3 | 939.2 | 917.0 | 907.4 | 895.3 | 887.7 | 880.1 | 874.0 |
| 17.5° | 984.6 | 959.9 | 939.7 | 913.4 | 892.7 | 876.1 | 862.9 | 856.4 | 844.3 | 833.1 | 825.6 |
| 20° | 951.8 | 925.0 | 903.3 | 875.1 | 851.8 | 830.1 | 819.5 | 809.4 | 800.8 | 791.7 | 783.2 |
| 22.5° | 918.5 | 890.2 | 862.4 | 835.2 | 814.0 | 790.7 | 780.6 | 766.0 | 757.9 | 753.9 | 745.3 |
| 25° | 883.1 | 852.8 | 822.5 | 796.3 | 774.1 | 753.9 | 740.2 | 729.6 | 720.5 | 716.5 | 710.9 |
| 27.5° | 844.8 | 815.0 | 786.2 | 755.9 | 730.1 | 715.5 | 704.4 | 695.8 | 690.2 | 684.2 | 681.7 |
| 30° | 808.4 | 777.1 | 745.8 | 718.0 | 694.8 | 680.1 | 670.0 | 664.5 | 660.5 | 657.9 | 655.4 |
| 32.5° | 771.5 | 740.7 | 707.4 | 682.7 | 662.5 | 649.9 | 642.8 | 637.2 | 635.7 | 635.2 | 634.7 |
| 35° | 731.7 | 700.3 | 670.0 | 647.3 | 627.6 | 622.6 | 616.0 | 613.0 | 612.0 | 615.5 | 617.0 |
| 37.5° | 693.3 | 664.0 | 635.7 | 613.0 | 599.9 | 591.8 | 589.3 | 588.8 | 592.3 | 595.3 | 598.9 |
| 40° | 656.4 | 628.1 | 601.9 | 582.7 | 570.6 | 566.0 | 565.0 | 567.5 | 571.6 | 575.1 | 579.2 |
| 42.5° | 620.6 | 592.8 | 569.6 | 551.9 | 544.3 | 540.3 | 541.3 | 543.8 | 549.9 | 554.4 | 561.0 |
| 45° | 583.2 | 560.0 | 536.7 | 522.1 | 515.0 | 516.0 | 516.0 | 520.6 | 526.1 | 532.7 | 539.3 |
| 47.5° | 548.4 | 524.6 | 504.9 | 492.3 | 488.8 | 487.3 | 489.8 | 495.8 | 503.4 | 511.0 | 520.1 |
| 50° | 513.0 | 490.8 | 474.1 | 463.0 | 459.0 | 460.5 | 464.5 | 470.1 | 479.7 | 489.8 | 499.4 |
| 52.5° | 477.2 | 457.5 | 442.3 | 432.2 | 429.7 | 432.7 | 436.8 | 446.4 | 454.4 | 465.6 | 477.7 |
| 55° | 439.8 | 422.6 | 410.5 | 402.9 | 401.9 | 403.4 | 408.0 | 417.6 | 429.7 | 443.3 | 454.4 |
| 57.5° | 402.9 | 388.3 | 376.7 | 371.1 | 371.6 | 372.6 | 379.7 | 391.3 | 403.4 | 418.1 | 432.2 |
| 60° | 365.6 | 352.4 | 343.4 | 339.3 | 339.8 | 342.9 | 351.9 | 362.5 | 378.7 | 392.8 | 408.0 |
| 62.5° | 330.2 | 319.1 | 310.5 | 307.0 | 306.0 | 313.6 | 322.1 | 333.3 | 349.4 | 365.6 | 382.2 |
| 65° | 291.9 | 282.8 | 275.7 | 273.7 | 275.2 | 280.2 | 291.3 | 306.0 | 319.6 | 336.3 | 353.5 |
| 67.5° | 254.5 | 246.9 | 241.9 | 242.9 | 244.4 | 251.5 | 261.1 | 273.7 | 288.8 | 306.0 | 323.7 |
| 70° | 219.1 | 212.1 | 208.0 | 208.5 | 211.6 | 220.7 | 228.7 | 241.4 | 258.0 | 275.7 | 289.8 |
| 72.5° | 182.8 | 178.7 | 175.2 | 177.7 | 180.8 | 186.3 | 196.9 | 209.5 | 223.7 | 239.8 | 255.0 |
| 75° | 145.9 | 145.9 | 143.9 | 145.4 | 150.0 | 156.0 | 163.6 | 176.7 | 191.4 | 204.5 | 216.6 |
| 77.5° | 114.6 | 113.1 | 114.1 | 115.6 | 118.7 | 126.2 | 134.8 | 144.4 | 156.0 | 169.7 | 179.8 |
| 80° | 82.8 | 83.3 | 85.8 | 88.9 | 89.9 | 95.4 | 104.5 | 113.1 | 121.7 | 132.8 | 142.4 |
| 82.5° | 57.1 | 57.6 | 58.6 | 62.6 | 63.6 | 69.7 | 74.7 | 83.3 | 90.9 | 97.5 | 105.0 |
| 85° | 33.8 | 33.8 | 36.4 | 37.9 | 40.4 | 44.4 | 48.0 | 53.0 | 60.1 | 65.1 | 72.7 |
| 87.5° | 16.2 | 16.2 | 18.2 | 19.2 | 20.7 | 23.2 | 24.2 | 29.8 | 31.8 | 34.3 | 38.9 |
| 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: P242645

CATALOG NUMBER: CL4DR-A-80D840-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1218.9 | 1218.9 | 1218.9 | 1218.9 |
| 2.5° | 1147.2 | 1146.2 | 1142.7 | 1142.2 |
| 5° | 1073.0 | 1070.5 | 1068.9 | 1074.5 |
| 7.5° | 1016.9 | 1014.9 | 1010.4 | 1008.9 |
| 10° | 963.4 | 961.4 | 957.4 | 956.3 |
| 12.5° | 911.9 | 907.4 | 907.4 | 908.9 |
| 15° | 867.5 | 865.5 | 859.9 | 861.4 |
| 17.5° | 822.0 | 820.0 | 812.4 | 820.0 |
| 20° | 779.6 | 775.6 | 772.0 | 771.5 |
| 22.5° | 739.2 | 735.7 | 736.2 | 732.2 |
| 25° | 706.9 | 703.4 | 702.4 | 699.8 |
| 27.5° | 680.7 | 678.6 | 676.6 | 677.6 |
| 30° | 656.9 | 656.4 | 655.4 | 655.4 |
| 32.5° | 637.2 | 637.2 | 638.2 | 638.2 |
| 35° | 619.1 | 620.6 | 621.6 | 620.1 |
| 37.5° | 602.9 | 603.9 | 605.4 | 606.9 |
| 40° | 583.7 | 587.2 | 588.2 | 590.8 |
| 42.5° | 565.5 | 569.6 | 572.6 | 572.6 |
| 45° | 546.8 | 550.9 | 554.4 | 554.4 |
| 47.5° | 527.7 | 533.2 | 536.7 | 537.3 |
| 50° | 508.0 | 515.0 | 518.6 | 521.1 |
| 52.5° | 488.8 | 495.8 | 500.9 | 501.9 |
| 55° | 466.1 | 476.2 | 481.7 | 483.7 |
| 57.5° | 445.9 | 454.9 | 461.0 | 462.5 |
| 60° | 421.6 | 431.7 | 439.8 | 441.3 |
| 62.5° | 396.9 | 407.5 | 414.6 | 419.1 |
| 65° | 367.6 | 378.2 | 385.3 | 386.8 |
| 67.5° | 336.8 | 347.9 | 352.4 | 355.5 |
| 70° | 304.0 | 312.6 | 317.6 | 320.1 |
| 72.5° | 266.6 | 275.7 | 281.8 | 281.8 |
| 75° | 228.2 | 236.3 | 239.3 | 239.3 |
| 77.5° | 188.3 | 192.9 | 196.9 | 197.9 |
| 80° | 150.0 | 152.5 | 155.5 | 155.5 |
| 82.5° | 110.6 | 112.6 | 115.6 | 115.1 |
| 85° | 71.7 | 76.2 | 75.7 | 74.7 |
| 87.5° | 40.4 | 40.9 | 42.4 | 43.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)