

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: PORTFOLIO

Report Number: P244174

Luminaire Tested: **LD8B40D010 ER8B40835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40835 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4623.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

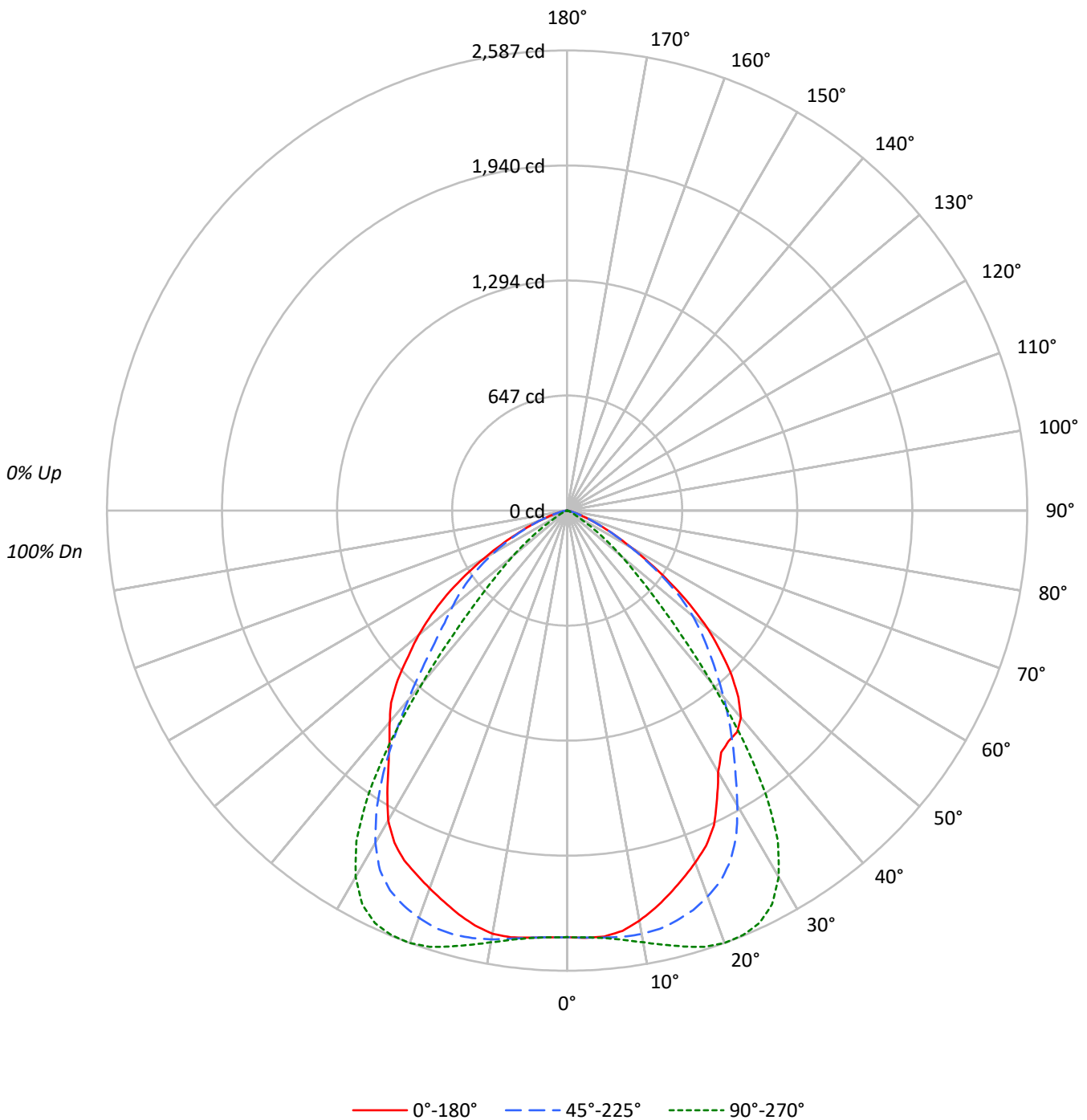
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244174

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244174

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBDW0LI

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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | | 79 | | | |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 63 | 59 | 68 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 66 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 57 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | 50 | | | |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 44 | 39 | 48 | 43 | 39 | 38 | | | | | 38 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 73952 | 73952 | 73952 |
| 5° | 74395 | 74671 | 74590 |
| 10° | 73301 | 77168 | 75653 |
| 15° | 71159 | 80991 | 75060 |
| 20° | 69093 | 84883 | 74146 |
| 25° | 66439 | 87057 | 73802 |
| 30° | 60464 | 84669 | 71616 |
| 35° | 59564 | 73365 | 65889 |
| 40° | 61182 | 50885 | 62462 |
| 45° | 56958 | 30753 | 58733 |
| 50° | 49402 | 18992 | 52334 |
| 55° | 37913 | 9924 | 44418 |
| 60° | 25828 | 4003 | 33525 |
| 65° | 16067 | 2043 | 23130 |
| 70° | 8718 | 1262 | 14119 |
| 75° | 4551 | 608 | 8340 |
| 80° | 2042 | 675 | 4511 |
| 85° | 1344 | 460 | 4069 |



TEST NUMBER: P244174

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 230.6 | 5.0 |
| 10°-20° | 683.2 | 14.8 |
| 20°-30° | 1042.3 | 22.5 |
| 30°-40° | 1087.7 | 23.5 |
| 40°-50° | 817.0 | 17.7 |
| 50°-60° | 502.7 | 10.9 |
| 60°-70° | 204.6 | 4.4 |
| 70°-80° | 48.2 | 1.0 |
| 80°-90° | 6.6 | 0.1 |
| 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° | 1956.2 | 42.3 |
| 0°-40° | 3043.9 | 65.8 |
| 0°-60° | 4363.6 | 94.4 |
| 0°-90° | 4623.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4623.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2398 | 2398 | 2398 | 2398 | 2398 | |
| 5° | 2403 | 2410 | 2412 | 2410 | 2410 | 227 |
| 15° | 2229 | 2386 | 2537 | 2467 | 2351 | 628 |
| 25° | 1953 | 2172 | 2559 | 2356 | 2169 | 888 |
| 35° | 1582 | 1627 | 1949 | 1801 | 1750 | 999 |
| 45° | 1306 | 1130 | 705 | 1053 | 1347 | 996 |
| 55° | 705 | 670 | 185 | 670 | 826 | 634 |
| 65° | 220 | 223 | 28 | 299 | 317 | 230 |
| 75° | 38 | 38 | 5 | 68 | 70 | 46 |
| 85° | 4 | 4 | 1 | 9 | 12 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244174

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 |
| 2.5° | 2404.6 | 2400.8 | 2404.6 | 2404.6 | 2405.9 | 2403.4 | 2404.6 | 2405.9 | 2403.4 | 2403.4 | 2403.4 |
| 5° | 2403.4 | 2400.8 | 2403.4 | 2402.1 | 2404.6 | 2404.6 | 2407.2 | 2407.2 | 2409.7 | 2409.7 | 2413.5 |
| 7.5° | 2383.0 | 2377.9 | 2383.0 | 2386.8 | 2389.3 | 2394.4 | 2400.8 | 2405.9 | 2411.0 | 2416.1 | 2422.5 |
| 10° | 2341.0 | 2341.0 | 2344.8 | 2352.4 | 2360.1 | 2369.0 | 2380.4 | 2393.2 | 2405.9 | 2417.3 | 2428.8 |
| 12.5° | 2288.8 | 2285.0 | 2292.6 | 2302.8 | 2314.2 | 2328.3 | 2346.1 | 2365.2 | 2385.5 | 2408.4 | 2426.3 |
| 15° | 2229.0 | 2225.1 | 2234.0 | 2244.2 | 2258.2 | 2278.6 | 2300.3 | 2325.7 | 2355.0 | 2385.5 | 2414.8 |
| 17.5° | 2167.9 | 2166.6 | 2175.5 | 2189.5 | 2201.0 | 2222.6 | 2250.6 | 2281.1 | 2314.2 | 2355.0 | 2393.2 |
| 20° | 2105.5 | 2104.2 | 2113.1 | 2124.6 | 2139.9 | 2160.2 | 2188.2 | 2223.9 | 2263.3 | 2309.2 | 2353.7 |
| 22.5° | 2040.6 | 2041.8 | 2049.5 | 2062.2 | 2074.9 | 2096.6 | 2125.8 | 2161.5 | 2204.8 | 2254.4 | 2304.1 |
| 25° | 1952.7 | 1946.4 | 1956.5 | 1969.3 | 1990.9 | 2008.7 | 2036.8 | 2074.9 | 2119.5 | 2171.7 | 2230.2 |
| 27.5° | 1825.4 | 1824.1 | 1833.1 | 1844.5 | 1863.6 | 1885.3 | 1915.8 | 1955.3 | 2002.4 | 2059.6 | 2116.9 |
| 30° | 1698.1 | 1700.7 | 1704.5 | 1716.0 | 1728.7 | 1750.3 | 1780.9 | 1814.0 | 1858.5 | 1913.3 | 1974.4 |
| 32.5° | 1611.6 | 1611.6 | 1616.7 | 1624.3 | 1633.2 | 1644.7 | 1666.3 | 1690.5 | 1724.9 | 1763.1 | 1807.6 |
| 35° | 1582.3 | 1577.2 | 1582.3 | 1583.6 | 1584.8 | 1587.4 | 1591.2 | 1598.9 | 1610.3 | 1626.9 | 1643.4 |
| 37.5° | 1569.6 | 1565.7 | 1565.7 | 1560.7 | 1554.3 | 1546.7 | 1536.5 | 1525.0 | 1512.3 | 1495.7 | 1483.0 |
| 40° | 1519.9 | 1517.4 | 1514.8 | 1509.7 | 1495.7 | 1480.5 | 1463.9 | 1437.2 | 1407.9 | 1367.1 | 1326.4 |
| 42.5° | 1424.5 | 1421.9 | 1420.6 | 1410.4 | 1397.7 | 1379.9 | 1360.8 | 1332.8 | 1295.9 | 1243.7 | 1185.1 |
| 45° | 1306.1 | 1301.0 | 1297.2 | 1288.3 | 1279.3 | 1264.1 | 1246.2 | 1220.8 | 1183.8 | 1130.4 | 1060.4 |
| 47.5° | 1168.6 | 1166.0 | 1164.8 | 1161.0 | 1152.0 | 1143.1 | 1131.7 | 1111.3 | 1078.2 | 1027.3 | 954.7 |
| 50° | 1029.8 | 1024.7 | 1027.3 | 1026.0 | 1022.2 | 1015.8 | 1008.2 | 994.2 | 968.7 | 922.9 | 856.7 |
| 52.5° | 870.7 | 870.7 | 869.4 | 873.2 | 874.5 | 873.2 | 874.5 | 859.3 | 837.6 | 803.2 | 747.2 |
| 55° | 705.2 | 705.2 | 709.0 | 714.1 | 719.2 | 720.5 | 719.2 | 712.9 | 697.6 | 669.6 | 619.9 |
| 57.5° | 549.9 | 547.4 | 555.0 | 562.6 | 567.8 | 572.8 | 569.0 | 563.9 | 555.0 | 532.1 | 493.9 |
| 60° | 418.8 | 418.8 | 423.9 | 429.0 | 434.1 | 439.2 | 437.9 | 436.6 | 429.0 | 413.7 | 383.2 |
| 62.5° | 308.0 | 309.3 | 309.3 | 313.2 | 318.2 | 323.3 | 327.1 | 323.3 | 319.5 | 309.3 | 289.0 |
| 65° | 220.2 | 218.9 | 220.2 | 224.0 | 227.9 | 233.0 | 235.5 | 234.2 | 230.4 | 222.8 | 207.5 |
| 67.5° | 147.7 | 146.4 | 151.5 | 152.7 | 155.3 | 160.4 | 159.1 | 160.4 | 159.1 | 152.7 | 140.0 |
| 70° | 96.7 | 94.2 | 96.7 | 95.5 | 99.3 | 100.6 | 103.1 | 104.4 | 103.1 | 99.3 | 95.5 |
| 72.5° | 59.8 | 58.6 | 59.8 | 61.1 | 62.4 | 63.6 | 66.2 | 66.2 | 64.9 | 62.4 | 57.3 |
| 75° | 38.2 | 34.4 | 35.6 | 33.1 | 35.6 | 35.6 | 38.2 | 39.5 | 38.2 | 38.2 | 35.6 |
| 77.5° | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 | 24.2 | 25.4 | 22.9 | 21.6 |
| 80° | 11.5 | 11.5 | 12.7 | 12.7 | 12.7 | 14.0 | 12.7 | 12.7 | 12.7 | 14.0 | 10.2 |
| 82.5° | 8.9 | 7.6 | 7.6 | 7.6 | 8.9 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 85° | 3.8 | 5.1 | 3.8 | 2.6 | 3.8 | 3.8 | 5.1 | 3.8 | 3.8 | 3.8 | 5.1 |
| 87.5° | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 1.3 | 2.6 | 0.0 |
| 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: P244174

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 |
| 2.5° | 2404.6 | 2402.1 | 2402.1 | 2400.8 | 2403.4 | 2400.8 | 2402.1 | 2400.8 | 2400.8 | 2403.4 | 2400.8 |
| 5° | 2413.5 | 2414.8 | 2412.3 | 2411.0 | 2414.8 | 2414.8 | 2414.8 | 2412.3 | 2412.3 | 2413.5 | 2412.3 |
| 7.5° | 2426.3 | 2428.8 | 2430.1 | 2431.4 | 2433.9 | 2435.2 | 2435.2 | 2433.9 | 2432.6 | 2436.5 | 2431.4 |
| 10° | 2440.3 | 2444.1 | 2451.7 | 2455.6 | 2461.9 | 2461.9 | 2464.5 | 2464.5 | 2461.9 | 2464.5 | 2463.2 |
| 12.5° | 2435.2 | 2458.1 | 2470.8 | 2479.7 | 2488.6 | 2496.3 | 2498.8 | 2500.1 | 2498.8 | 2503.9 | 2498.8 |
| 15° | 2444.1 | 2463.2 | 2483.6 | 2498.8 | 2515.4 | 2524.3 | 2526.8 | 2537.0 | 2539.6 | 2540.8 | 2533.2 |
| 17.5° | 2430.1 | 2464.5 | 2486.1 | 2509.0 | 2533.2 | 2549.7 | 2565.0 | 2571.4 | 2572.7 | 2575.2 | 2565.0 |
| 20° | 2398.2 | 2436.5 | 2469.5 | 2502.7 | 2530.7 | 2556.1 | 2568.8 | 2586.7 | 2581.6 | 2591.8 | 2577.8 |
| 22.5° | 2355.0 | 2398.2 | 2440.3 | 2483.6 | 2512.8 | 2543.4 | 2570.1 | 2582.8 | 2589.2 | 2589.2 | 2573.9 |
| 25° | 2286.2 | 2337.2 | 2383.0 | 2427.5 | 2472.1 | 2509.0 | 2539.6 | 2558.7 | 2562.5 | 2561.2 | 2543.4 |
| 27.5° | 2179.3 | 2234.0 | 2287.5 | 2338.4 | 2393.2 | 2436.5 | 2472.1 | 2495.0 | 2501.4 | 2501.4 | 2482.3 |
| 30° | 2031.6 | 2090.2 | 2142.4 | 2203.5 | 2259.5 | 2307.9 | 2357.5 | 2377.9 | 2389.3 | 2389.3 | 2367.7 |
| 32.5° | 1856.0 | 1905.6 | 1954.0 | 2013.8 | 2074.9 | 2129.7 | 2176.8 | 2204.8 | 2218.8 | 2217.5 | 2198.4 |
| 35° | 1665.0 | 1689.2 | 1726.2 | 1770.7 | 1825.4 | 1876.3 | 1922.2 | 1948.9 | 1973.1 | 1971.8 | 1954.0 |
| 37.5° | 1474.1 | 1467.7 | 1471.6 | 1488.1 | 1522.4 | 1558.1 | 1593.7 | 1619.2 | 1639.6 | 1648.5 | 1644.7 |
| 40° | 1287.0 | 1253.9 | 1222.0 | 1210.6 | 1213.1 | 1225.9 | 1245.0 | 1264.1 | 1287.0 | 1298.4 | 1303.5 |
| 42.5° | 1118.9 | 1062.9 | 1006.9 | 964.9 | 940.7 | 933.1 | 942.0 | 948.3 | 962.4 | 978.9 | 995.5 |
| 45° | 984.0 | 908.9 | 835.1 | 770.1 | 729.4 | 705.2 | 700.1 | 705.2 | 712.9 | 729.4 | 751.1 |
| 47.5° | 873.2 | 785.4 | 702.7 | 630.1 | 570.3 | 538.5 | 529.6 | 527.0 | 534.6 | 549.9 | 579.2 |
| 50° | 775.2 | 687.4 | 595.8 | 511.7 | 449.4 | 413.7 | 401.0 | 395.9 | 404.8 | 416.3 | 443.0 |
| 52.5° | 668.3 | 581.7 | 487.5 | 406.1 | 341.2 | 304.2 | 290.2 | 282.6 | 287.7 | 303.0 | 329.7 |
| 55° | 552.5 | 472.3 | 387.0 | 303.0 | 240.6 | 206.2 | 189.7 | 184.6 | 189.7 | 206.2 | 233.0 |
| 57.5° | 436.6 | 369.2 | 297.9 | 218.9 | 162.9 | 128.6 | 112.0 | 106.9 | 120.9 | 127.3 | 155.3 |
| 60° | 341.2 | 286.4 | 225.3 | 160.4 | 112.0 | 85.3 | 68.7 | 64.9 | 71.3 | 82.7 | 105.7 |
| 62.5° | 255.9 | 221.5 | 173.1 | 114.6 | 82.7 | 54.7 | 45.8 | 42.0 | 45.8 | 54.7 | 72.6 |
| 65° | 185.9 | 159.1 | 120.9 | 84.0 | 56.0 | 40.7 | 30.6 | 28.0 | 31.8 | 38.2 | 53.5 |
| 67.5° | 127.3 | 106.9 | 84.0 | 58.6 | 38.2 | 25.4 | 21.6 | 21.6 | 22.9 | 28.0 | 39.5 |
| 70° | 82.7 | 70.0 | 53.5 | 38.2 | 25.4 | 19.1 | 16.5 | 14.0 | 16.5 | 20.4 | 26.7 |
| 72.5° | 52.2 | 44.5 | 34.4 | 26.7 | 19.1 | 14.0 | 11.5 | 10.2 | 12.7 | 15.3 | 20.4 |
| 75° | 31.8 | 24.2 | 17.8 | 14.0 | 10.2 | 10.2 | 10.2 | 5.1 | 6.4 | 10.2 | 12.7 |
| 77.5° | 19.1 | 16.5 | 14.0 | 11.5 | 8.9 | 5.1 | 5.1 | 5.1 | 6.4 | 7.6 | 11.5 |
| 80° | 10.2 | 8.9 | 6.4 | 6.4 | 5.1 | 3.8 | 5.1 | 3.8 | 2.6 | 6.4 | 7.6 |
| 82.5° | 6.4 | 5.1 | 5.1 | 5.1 | 6.4 | 2.6 | 3.8 | 2.6 | 3.8 | 5.1 | 3.8 |
| 85° | 3.8 | 3.8 | 3.8 | 2.6 | 6.4 | 2.6 | 2.6 | 1.3 | 1.3 | 2.6 | 2.6 |
| 87.5° | 0.0 | 1.3 | 1.3 | 0.0 | 1.3 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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: P244174

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 | 2398.2 |
| 2.5° | 2402.1 | 2400.8 | 2402.1 | 2400.8 | 2400.8 | 2400.8 | 2402.1 | 2402.1 | 2400.8 | 2400.8 | 2403.4 |
| 5° | 2412.3 | 2412.3 | 2412.3 | 2411.0 | 2409.7 | 2409.7 | 2412.3 | 2412.3 | 2408.4 | 2412.3 | 2412.3 |
| 7.5° | 2433.9 | 2430.1 | 2433.9 | 2428.8 | 2426.3 | 2427.5 | 2428.8 | 2426.3 | 2423.7 | 2425.0 | 2425.0 |
| 10° | 2461.9 | 2458.1 | 2458.1 | 2454.3 | 2450.5 | 2447.9 | 2445.4 | 2439.0 | 2432.6 | 2431.4 | 2426.3 |
| 12.5° | 2495.0 | 2488.6 | 2484.8 | 2477.2 | 2470.8 | 2461.9 | 2454.3 | 2444.1 | 2431.4 | 2422.5 | 2413.5 |
| 15° | 2528.1 | 2517.9 | 2509.0 | 2496.3 | 2482.3 | 2467.0 | 2450.5 | 2433.9 | 2413.5 | 2395.7 | 2380.4 |
| 17.5° | 2554.8 | 2540.8 | 2524.3 | 2503.9 | 2483.6 | 2460.6 | 2436.5 | 2412.3 | 2383.0 | 2360.1 | 2342.2 |
| 20° | 2563.7 | 2543.4 | 2521.7 | 2495.0 | 2468.3 | 2436.5 | 2405.9 | 2374.1 | 2341.0 | 2316.8 | 2296.4 |
| 22.5° | 2552.3 | 2528.1 | 2501.4 | 2473.4 | 2437.7 | 2403.4 | 2367.7 | 2330.8 | 2301.5 | 2268.4 | 2249.3 |
| 25° | 2520.5 | 2491.2 | 2461.9 | 2428.8 | 2394.4 | 2356.3 | 2318.1 | 2279.9 | 2244.2 | 2226.4 | 2202.2 |
| 27.5° | 2455.6 | 2423.7 | 2391.9 | 2357.5 | 2318.1 | 2279.9 | 2240.4 | 2203.5 | 2173.0 | 2148.8 | 2134.8 |
| 30° | 2341.0 | 2304.1 | 2267.1 | 2230.2 | 2195.9 | 2156.4 | 2119.5 | 2088.9 | 2058.4 | 2039.3 | 2025.3 |
| 32.5° | 2165.3 | 2132.2 | 2095.3 | 2059.6 | 2027.8 | 1994.7 | 1964.2 | 1937.5 | 1915.8 | 1903.1 | 1892.9 |
| 35° | 1928.5 | 1895.4 | 1867.4 | 1842.0 | 1815.2 | 1801.2 | 1782.2 | 1766.9 | 1758.0 | 1752.9 | 1751.6 |
| 37.5° | 1630.7 | 1611.6 | 1602.7 | 1597.6 | 1592.5 | 1588.7 | 1591.2 | 1597.6 | 1602.7 | 1611.6 | 1621.7 |
| 40° | 1312.4 | 1329.0 | 1334.1 | 1351.9 | 1368.4 | 1390.1 | 1414.3 | 1442.3 | 1465.2 | 1494.4 | 1514.8 |
| 42.5° | 1022.2 | 1052.7 | 1088.4 | 1126.6 | 1167.3 | 1206.8 | 1255.1 | 1299.7 | 1340.4 | 1377.3 | 1409.2 |
| 45° | 785.4 | 832.5 | 886.0 | 940.7 | 995.5 | 1052.7 | 1111.3 | 1166.0 | 1214.4 | 1253.9 | 1287.0 |
| 47.5° | 612.3 | 664.5 | 733.2 | 800.7 | 866.9 | 934.4 | 999.3 | 1056.5 | 1097.3 | 1135.5 | 1164.8 |
| 50° | 485.0 | 544.8 | 619.9 | 697.6 | 770.1 | 841.4 | 910.2 | 963.6 | 1004.4 | 1034.9 | 1056.5 |
| 52.5° | 375.5 | 446.8 | 523.2 | 604.7 | 682.3 | 760.0 | 823.6 | 873.2 | 906.4 | 933.1 | 949.6 |
| 55° | 280.0 | 350.1 | 431.5 | 515.6 | 594.5 | 669.6 | 729.4 | 772.7 | 802.0 | 817.2 | 826.2 |
| 57.5° | 202.4 | 266.1 | 347.5 | 431.5 | 502.8 | 574.1 | 622.5 | 661.9 | 678.5 | 687.4 | 691.2 |
| 60° | 147.7 | 206.2 | 278.8 | 351.3 | 418.8 | 476.1 | 518.1 | 544.8 | 557.6 | 562.6 | 561.4 |
| 62.5° | 108.2 | 159.1 | 221.5 | 282.6 | 337.3 | 384.4 | 417.5 | 435.3 | 441.7 | 444.3 | 440.5 |
| 65° | 82.7 | 122.2 | 175.7 | 222.8 | 264.8 | 299.1 | 323.3 | 334.8 | 338.6 | 337.3 | 334.8 |
| 67.5° | 61.1 | 91.7 | 131.1 | 166.8 | 197.3 | 224.0 | 236.8 | 247.0 | 249.5 | 245.7 | 241.9 |
| 70° | 43.3 | 67.5 | 95.5 | 119.7 | 142.6 | 157.9 | 171.8 | 173.1 | 173.1 | 171.8 | 169.3 |
| 72.5° | 30.6 | 47.1 | 64.9 | 81.5 | 95.5 | 106.9 | 112.0 | 115.8 | 114.6 | 113.3 | 110.8 |
| 75° | 20.4 | 29.3 | 47.1 | 50.9 | 63.6 | 67.5 | 72.6 | 72.6 | 73.8 | 70.0 | 70.0 |
| 77.5° | 12.7 | 20.4 | 28.0 | 33.1 | 38.2 | 43.3 | 45.8 | 45.8 | 47.1 | 45.8 | 45.8 |
| 80° | 7.6 | 12.7 | 15.3 | 22.9 | 22.9 | 26.7 | 28.0 | 29.3 | 26.7 | 30.6 | 26.7 |
| 82.5° | 5.1 | 7.6 | 11.5 | 11.5 | 14.0 | 16.5 | 16.5 | 17.8 | 17.8 | 16.5 | 16.5 |
| 85° | 3.8 | 5.1 | 6.4 | 7.6 | 7.6 | 8.9 | 7.6 | 7.6 | 8.9 | 10.2 | 8.9 |
| 87.5° | 1.3 | 2.6 | 1.3 | 2.6 | 2.6 | 5.1 | 3.8 | 3.8 | 3.8 | 5.1 | 5.1 |
| 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: P244174

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBDWOLI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2398.2 | 2398.2 | 2398.2 | 2398.2 |
| 2.5° | 2400.8 | 2402.1 | 2400.8 | 2400.8 |
| 5° | 2412.3 | 2411.0 | 2412.3 | 2409.7 |
| 7.5° | 2421.2 | 2421.2 | 2419.9 | 2419.9 |
| 10° | 2421.2 | 2416.1 | 2416.1 | 2416.1 |
| 12.5° | 2402.1 | 2395.7 | 2391.9 | 2389.3 |
| 15° | 2369.0 | 2357.5 | 2352.4 | 2351.2 |
| 17.5° | 2325.7 | 2315.5 | 2309.2 | 2305.3 |
| 20° | 2276.1 | 2265.9 | 2258.2 | 2259.5 |
| 22.5° | 2232.8 | 2221.3 | 2216.2 | 2213.7 |
| 25° | 2189.5 | 2175.5 | 2171.7 | 2169.1 |
| 27.5° | 2119.5 | 2111.8 | 2108.0 | 2104.2 |
| 30° | 2012.6 | 2008.7 | 2002.4 | 2011.3 |
| 32.5° | 1889.1 | 1882.7 | 1877.6 | 1881.5 |
| 35° | 1752.9 | 1749.0 | 1752.9 | 1750.3 |
| 37.5° | 1628.1 | 1631.9 | 1637.0 | 1639.6 |
| 40° | 1530.1 | 1544.1 | 1549.2 | 1551.7 |
| 42.5° | 1432.1 | 1448.6 | 1458.8 | 1465.2 |
| 45° | 1311.1 | 1327.7 | 1339.1 | 1346.8 |
| 47.5° | 1186.4 | 1200.4 | 1211.8 | 1210.6 |
| 50° | 1073.1 | 1080.7 | 1085.8 | 1090.9 |
| 52.5° | 958.5 | 958.5 | 959.8 | 959.8 |
| 55° | 828.7 | 826.2 | 824.9 | 826.2 |
| 57.5° | 686.1 | 683.6 | 682.3 | 678.5 |
| 60° | 556.3 | 548.7 | 543.6 | 543.6 |
| 62.5° | 435.3 | 426.4 | 422.6 | 421.4 |
| 65° | 327.1 | 325.9 | 318.2 | 317.0 |
| 67.5° | 236.8 | 231.7 | 226.6 | 227.9 |
| 70° | 166.8 | 159.1 | 159.1 | 156.6 |
| 72.5° | 108.2 | 104.4 | 103.1 | 103.1 |
| 75° | 67.5 | 67.5 | 64.9 | 70.0 |
| 77.5° | 44.5 | 44.5 | 43.3 | 44.5 |
| 80° | 26.7 | 26.7 | 26.7 | 25.4 |
| 82.5° | 16.5 | 17.8 | 16.5 | 16.5 |
| 85° | 8.9 | 10.2 | 7.6 | 11.5 |
| 87.5° | 5.1 | 6.4 | 5.1 | 6.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)