

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: P248344

Luminaire Tested: **LD8B60D010 ER8B60835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248344
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: LD8B60D010 ER8B60835 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: 6553.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

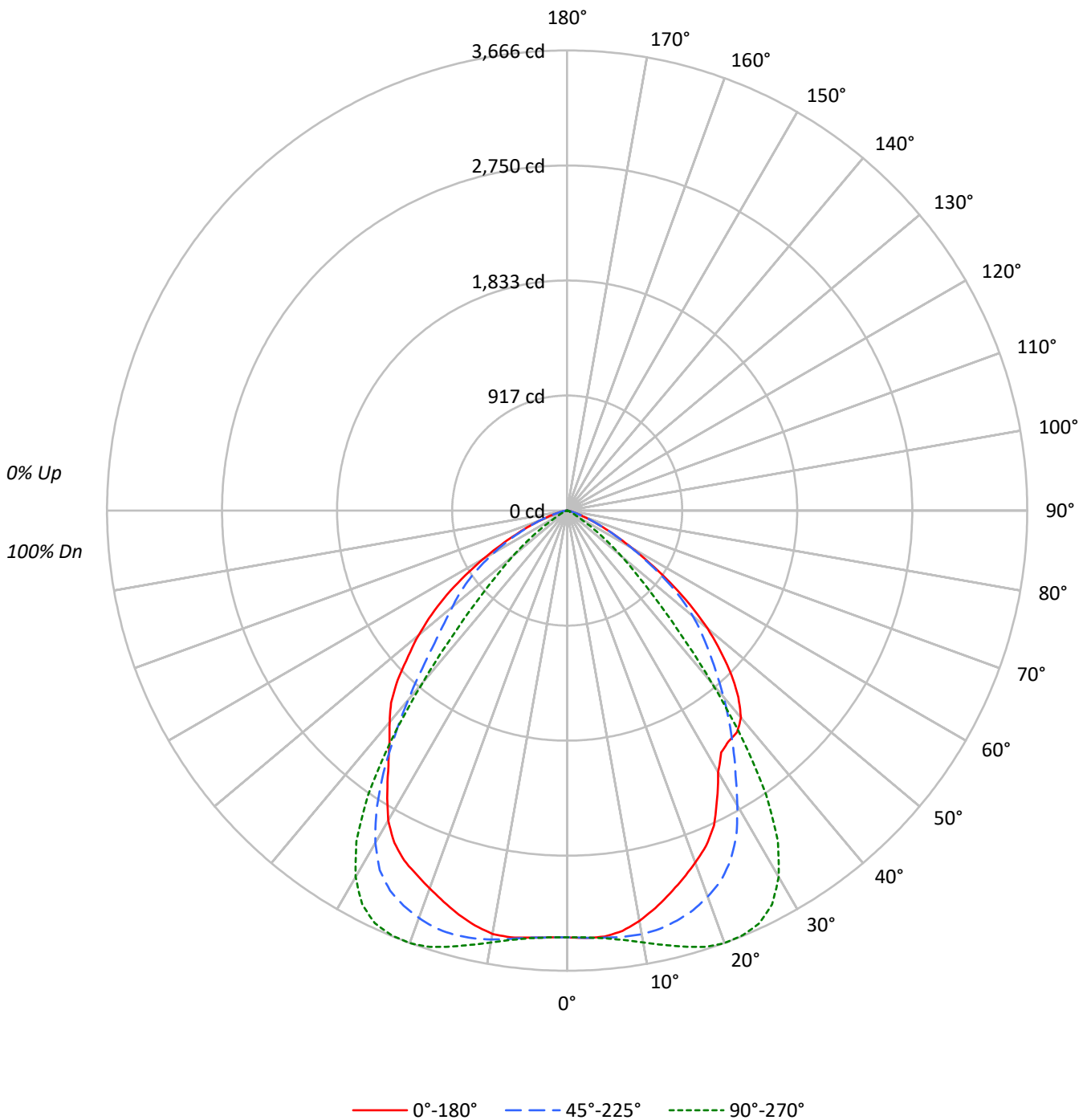
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 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° | 104828 | 104828 | 104828 |
| 5° | 105451 | 105841 | 105730 |
| 10° | 103903 | 109382 | 107237 |
| 15° | 100864 | 114805 | 106393 |
| 20° | 97937 | 120317 | 105101 |
| 25° | 94175 | 123399 | 104614 |
| 30° | 85705 | 120016 | 101511 |
| 35° | 84432 | 103992 | 93395 |
| 40° | 86727 | 72127 | 88539 |
| 45° | 80734 | 43592 | 83254 |
| 50° | 70031 | 26922 | 74185 |
| 55° | 53740 | 14064 | 62960 |
| 60° | 36609 | 5674 | 47519 |
| 65° | 22772 | 2897 | 32783 |
| 70° | 12361 | 1794 | 20006 |
| 75° | 6446 | 858 | 11831 |
| 80° | 2877 | 959 | 6411 |
| 85° | 1911 | 637 | 5732 |



TEST NUMBER: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDWOLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 326.9 | 5.0 |
| 10°-20° | 968.5 | 14.8 |
| 20°-30° | 1477.5 | 22.5 |
| 30°-40° | 1541.8 | 23.5 |
| 40°-50° | 1158.1 | 17.7 |
| 50°-60° | 712.5 | 10.9 |
| 60°-70° | 290.0 | 4.4 |
| 70°-80° | 68.3 | 1.0 |
| 80°-90° | 9.4 | 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° | 2772.9 | 42.3 |
| 0°-40° | 4314.7 | 65.8 |
| 0°-60° | 6185.3 | 94.4 |
| 0°-90° | 6553.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6553.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3400 | 3400 | 3400 | 3400 | 3400 | |
| 5° | 3407 | 3416 | 3419 | 3416 | 3416 | 322 |
| 15° | 3160 | 3382 | 3596 | 3497 | 3333 | 890 |
| 25° | 2768 | 3078 | 3627 | 3340 | 3075 | 1258 |
| 35° | 2243 | 2306 | 2762 | 2553 | 2481 | 1416 |
| 45° | 1851 | 1602 | 1000 | 1492 | 1909 | 1412 |
| 55° | 1000 | 949 | 262 | 949 | 1171 | 899 |
| 65° | 312 | 316 | 40 | 424 | 449 | 326 |
| 75° | 54 | 54 | 7 | 96 | 99 | 65 |
| 85° | 5 | 5 | 2 | 13 | 16 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 |
| 2.5° | 3408.5 | 3403.1 | 3408.5 | 3408.5 | 3410.3 | 3406.7 | 3408.5 | 3410.3 | 3406.7 | 3406.7 | 3406.7 |
| 5° | 3406.7 | 3403.1 | 3406.7 | 3404.9 | 3408.5 | 3408.5 | 3412.1 | 3412.1 | 3415.7 | 3415.7 | 3421.1 |
| 7.5° | 3377.8 | 3370.6 | 3377.8 | 3383.3 | 3386.8 | 3394.1 | 3403.1 | 3410.3 | 3417.5 | 3424.8 | 3433.8 |
| 10° | 3318.3 | 3318.3 | 3323.7 | 3334.5 | 3345.3 | 3358.0 | 3374.2 | 3392.3 | 3410.3 | 3426.5 | 3442.8 |
| 12.5° | 3244.3 | 3238.9 | 3249.7 | 3264.1 | 3280.4 | 3300.3 | 3325.5 | 3352.6 | 3381.5 | 3413.9 | 3439.2 |
| 15° | 3159.5 | 3154.1 | 3166.7 | 3181.1 | 3201.0 | 3229.9 | 3260.6 | 3296.6 | 3338.1 | 3381.5 | 3423.0 |
| 17.5° | 3072.9 | 3071.1 | 3083.7 | 3103.6 | 3119.8 | 3150.5 | 3190.2 | 3233.5 | 3280.4 | 3338.1 | 3392.3 |
| 20° | 2984.5 | 2982.7 | 2995.3 | 3011.6 | 3033.2 | 3062.1 | 3101.8 | 3152.3 | 3208.2 | 3273.2 | 3336.3 |
| 22.5° | 2892.4 | 2894.2 | 2905.1 | 2923.1 | 2941.2 | 2971.8 | 3013.3 | 3063.9 | 3125.2 | 3195.6 | 3266.0 |
| 25° | 2767.9 | 2758.9 | 2773.4 | 2791.4 | 2822.1 | 2847.3 | 2887.1 | 2941.2 | 3004.3 | 3078.3 | 3161.3 |
| 27.5° | 2587.5 | 2585.7 | 2598.4 | 2614.6 | 2641.6 | 2672.3 | 2715.6 | 2771.6 | 2838.3 | 2919.5 | 3000.7 |
| 30° | 2407.0 | 2410.7 | 2416.1 | 2432.3 | 2450.4 | 2481.0 | 2524.4 | 2571.3 | 2634.4 | 2712.0 | 2798.6 |
| 32.5° | 2284.4 | 2284.4 | 2291.6 | 2302.4 | 2315.0 | 2331.3 | 2362.0 | 2396.2 | 2445.0 | 2499.1 | 2562.2 |
| 35° | 2242.9 | 2235.7 | 2242.9 | 2244.7 | 2246.5 | 2250.1 | 2255.5 | 2266.3 | 2282.5 | 2306.0 | 2329.5 |
| 37.5° | 2224.8 | 2219.4 | 2219.4 | 2212.2 | 2203.2 | 2192.3 | 2177.9 | 2161.7 | 2143.6 | 2120.2 | 2102.1 |
| 40° | 2154.5 | 2150.8 | 2147.2 | 2140.0 | 2120.2 | 2098.5 | 2075.0 | 2037.2 | 1995.7 | 1937.9 | 1880.2 |
| 42.5° | 2019.1 | 2015.5 | 2013.7 | 1999.3 | 1981.2 | 1956.0 | 1928.9 | 1889.2 | 1836.9 | 1762.9 | 1679.9 |
| 45° | 1851.3 | 1844.1 | 1838.7 | 1826.1 | 1813.4 | 1791.8 | 1766.5 | 1730.4 | 1678.1 | 1602.3 | 1503.1 |
| 47.5° | 1656.4 | 1652.8 | 1651.0 | 1645.6 | 1633.0 | 1620.3 | 1604.1 | 1575.2 | 1528.3 | 1456.1 | 1353.3 |
| 50° | 1459.8 | 1452.6 | 1456.1 | 1454.4 | 1448.9 | 1439.9 | 1429.1 | 1409.2 | 1373.1 | 1308.2 | 1214.4 |
| 52.5° | 1234.2 | 1234.2 | 1232.4 | 1237.8 | 1239.6 | 1237.8 | 1239.6 | 1218.0 | 1187.3 | 1138.6 | 1059.2 |
| 55° | 999.6 | 999.6 | 1005.0 | 1012.3 | 1019.5 | 1021.3 | 1019.5 | 1010.5 | 988.8 | 949.1 | 878.7 |
| 57.5° | 779.5 | 775.9 | 786.7 | 797.5 | 804.8 | 812.0 | 806.5 | 799.3 | 786.7 | 754.2 | 700.1 |
| 60° | 593.6 | 593.6 | 600.8 | 608.1 | 615.3 | 622.5 | 620.7 | 618.9 | 608.1 | 586.4 | 543.1 |
| 62.5° | 436.7 | 438.5 | 438.5 | 443.9 | 451.1 | 458.3 | 463.7 | 458.3 | 452.9 | 438.5 | 409.6 |
| 65° | 312.1 | 310.3 | 312.1 | 317.6 | 323.0 | 330.2 | 333.8 | 332.0 | 326.6 | 315.8 | 294.1 |
| 67.5° | 209.3 | 207.5 | 214.7 | 216.5 | 220.1 | 227.4 | 225.6 | 227.4 | 225.6 | 216.5 | 198.5 |
| 70° | 137.1 | 133.5 | 137.1 | 135.3 | 140.8 | 142.6 | 146.1 | 147.9 | 146.1 | 140.8 | 135.3 |
| 72.5° | 84.8 | 83.0 | 84.8 | 86.6 | 88.4 | 90.2 | 93.8 | 93.8 | 92.0 | 88.4 | 81.2 |
| 75° | 54.1 | 48.7 | 50.5 | 46.9 | 50.5 | 50.5 | 54.1 | 55.9 | 54.1 | 54.1 | 50.5 |
| 77.5° | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 34.3 | 36.1 | 32.5 | 30.7 |
| 80° | 16.2 | 16.2 | 18.1 | 18.1 | 18.1 | 19.9 | 18.1 | 18.1 | 18.1 | 19.9 | 14.4 |
| 82.5° | 12.6 | 10.8 | 10.8 | 10.8 | 12.6 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 85° | 5.4 | 7.2 | 5.4 | 3.6 | 5.4 | 5.4 | 7.2 | 5.4 | 5.4 | 5.4 | 7.2 |
| 87.5° | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 1.8 | 1.8 | 3.6 | 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: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 |
| 2.5° | 3408.5 | 3404.9 | 3404.9 | 3403.1 | 3406.7 | 3403.1 | 3404.9 | 3403.1 | 3403.1 | 3406.7 | 3403.1 |
| 5° | 3421.1 | 3423.0 | 3419.3 | 3417.5 | 3423.0 | 3423.0 | 3423.0 | 3419.3 | 3419.3 | 3421.1 | 3419.3 |
| 7.5° | 3439.2 | 3442.8 | 3444.6 | 3446.4 | 3450.0 | 3451.8 | 3451.8 | 3450.0 | 3448.2 | 3453.6 | 3446.4 |
| 10° | 3459.0 | 3464.5 | 3475.3 | 3480.7 | 3489.7 | 3489.7 | 3493.3 | 3493.3 | 3489.7 | 3493.3 | 3491.5 |
| 12.5° | 3451.8 | 3484.3 | 3502.3 | 3515.0 | 3527.6 | 3538.4 | 3542.0 | 3543.8 | 3542.0 | 3549.3 | 3542.0 |
| 15° | 3464.5 | 3491.5 | 3520.4 | 3542.0 | 3565.5 | 3578.1 | 3581.7 | 3596.2 | 3599.8 | 3601.6 | 3590.8 |
| 17.5° | 3444.6 | 3493.3 | 3524.0 | 3556.5 | 3590.8 | 3614.2 | 3635.8 | 3644.9 | 3646.7 | 3650.3 | 3635.8 |
| 20° | 3399.5 | 3453.6 | 3500.5 | 3547.5 | 3587.1 | 3623.2 | 3641.3 | 3666.5 | 3659.3 | 3673.8 | 3653.9 |
| 22.5° | 3338.1 | 3399.5 | 3459.0 | 3520.4 | 3561.9 | 3605.2 | 3643.1 | 3661.1 | 3670.2 | 3670.2 | 3648.5 |
| 25° | 3240.7 | 3312.9 | 3377.8 | 3441.0 | 3504.1 | 3556.5 | 3599.8 | 3626.8 | 3632.3 | 3630.5 | 3605.2 |
| 27.5° | 3089.1 | 3166.7 | 3242.5 | 3314.7 | 3392.3 | 3453.6 | 3504.1 | 3536.6 | 3545.6 | 3545.6 | 3518.6 |
| 30° | 2879.8 | 2962.8 | 3036.8 | 3123.4 | 3202.8 | 3271.4 | 3341.8 | 3370.6 | 3386.8 | 3386.8 | 3356.2 |
| 32.5° | 2630.8 | 2701.2 | 2769.7 | 2854.6 | 2941.2 | 3018.8 | 3085.5 | 3125.2 | 3145.1 | 3143.3 | 3116.2 |
| 35° | 2360.2 | 2394.4 | 2446.8 | 2509.9 | 2587.5 | 2659.7 | 2724.6 | 2762.5 | 2796.8 | 2795.0 | 2769.7 |
| 37.5° | 2089.5 | 2080.5 | 2085.9 | 2109.3 | 2158.0 | 2208.6 | 2259.1 | 2295.2 | 2324.0 | 2336.7 | 2331.3 |
| 40° | 1824.3 | 1777.3 | 1732.2 | 1716.0 | 1719.6 | 1737.6 | 1764.7 | 1791.8 | 1824.3 | 1840.5 | 1847.7 |
| 42.5° | 1586.1 | 1506.7 | 1427.3 | 1367.7 | 1333.4 | 1322.6 | 1335.2 | 1344.3 | 1364.1 | 1387.6 | 1411.1 |
| 45° | 1394.8 | 1288.4 | 1183.7 | 1091.7 | 1033.9 | 999.6 | 992.4 | 999.6 | 1010.5 | 1033.9 | 1064.6 |
| 47.5° | 1237.8 | 1113.3 | 996.0 | 893.2 | 808.4 | 763.3 | 750.6 | 747.0 | 757.8 | 779.5 | 821.0 |
| 50° | 1098.9 | 974.4 | 844.5 | 725.4 | 637.0 | 586.4 | 568.4 | 561.2 | 573.8 | 590.0 | 627.9 |
| 52.5° | 947.3 | 824.6 | 691.1 | 575.6 | 483.6 | 431.3 | 411.4 | 400.6 | 407.8 | 429.5 | 467.3 |
| 55° | 783.1 | 669.4 | 548.5 | 429.5 | 341.0 | 292.3 | 268.8 | 261.6 | 268.8 | 292.3 | 330.2 |
| 57.5° | 618.9 | 523.3 | 422.2 | 310.3 | 231.0 | 182.3 | 158.8 | 151.6 | 171.4 | 180.4 | 220.1 |
| 60° | 483.6 | 406.0 | 319.4 | 227.4 | 158.8 | 120.9 | 97.4 | 92.0 | 101.1 | 117.3 | 149.8 |
| 62.5° | 362.7 | 314.0 | 245.4 | 162.4 | 117.3 | 77.6 | 64.9 | 59.6 | 64.9 | 77.6 | 102.9 |
| 65° | 263.4 | 225.6 | 171.4 | 119.1 | 79.4 | 57.7 | 43.3 | 39.7 | 45.1 | 54.1 | 75.8 |
| 67.5° | 180.4 | 151.6 | 119.1 | 83.0 | 54.1 | 36.1 | 30.7 | 30.7 | 32.5 | 39.7 | 55.9 |
| 70° | 117.3 | 99.3 | 75.8 | 54.1 | 36.1 | 27.1 | 23.4 | 19.9 | 23.4 | 28.9 | 37.9 |
| 72.5° | 74.0 | 63.1 | 48.7 | 37.9 | 27.1 | 19.9 | 16.2 | 14.4 | 18.1 | 21.6 | 28.9 |
| 75° | 45.1 | 34.3 | 25.3 | 19.9 | 14.4 | 14.4 | 14.4 | 7.2 | 9.0 | 14.4 | 18.1 |
| 77.5° | 27.1 | 23.4 | 19.9 | 16.2 | 12.6 | 7.2 | 7.2 | 7.2 | 9.0 | 10.8 | 16.2 |
| 80° | 14.4 | 12.6 | 9.0 | 9.0 | 7.2 | 5.4 | 7.2 | 5.4 | 3.6 | 9.0 | 10.8 |
| 82.5° | 9.0 | 7.2 | 7.2 | 7.2 | 9.0 | 3.6 | 5.4 | 3.6 | 5.4 | 7.2 | 5.4 |
| 85° | 5.4 | 5.4 | 5.4 | 3.6 | 9.0 | 3.6 | 3.6 | 1.8 | 1.8 | 3.6 | 3.6 |
| 87.5° | 0.0 | 1.8 | 1.8 | 0.0 | 1.8 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 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: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 | 3399.5 |
| 2.5° | 3404.9 | 3403.1 | 3404.9 | 3403.1 | 3403.1 | 3403.1 | 3404.9 | 3404.9 | 3403.1 | 3403.1 | 3406.7 |
| 5° | 3419.3 | 3419.3 | 3419.3 | 3417.5 | 3415.7 | 3415.7 | 3419.3 | 3419.3 | 3413.9 | 3419.3 | 3419.3 |
| 7.5° | 3450.0 | 3444.6 | 3450.0 | 3442.8 | 3439.2 | 3441.0 | 3442.8 | 3439.2 | 3435.6 | 3437.4 | 3437.4 |
| 10° | 3489.7 | 3484.3 | 3484.3 | 3478.9 | 3473.5 | 3469.8 | 3466.3 | 3457.2 | 3448.2 | 3446.4 | 3439.2 |
| 12.5° | 3536.6 | 3527.6 | 3522.2 | 3511.3 | 3502.3 | 3489.7 | 3478.9 | 3464.5 | 3446.4 | 3433.8 | 3421.1 |
| 15° | 3583.5 | 3569.1 | 3556.5 | 3538.4 | 3518.6 | 3496.9 | 3473.5 | 3450.0 | 3421.1 | 3395.9 | 3374.2 |
| 17.5° | 3621.4 | 3601.6 | 3578.1 | 3549.3 | 3520.4 | 3487.9 | 3453.6 | 3419.3 | 3377.8 | 3345.3 | 3320.1 |
| 20° | 3634.0 | 3605.2 | 3574.5 | 3536.6 | 3498.7 | 3453.6 | 3410.3 | 3365.2 | 3318.3 | 3284.0 | 3255.1 |
| 22.5° | 3617.8 | 3583.5 | 3545.6 | 3506.0 | 3455.4 | 3406.7 | 3356.2 | 3303.8 | 3262.3 | 3215.4 | 3188.4 |
| 25° | 3572.7 | 3531.2 | 3489.7 | 3442.8 | 3394.1 | 3339.9 | 3285.8 | 3231.7 | 3181.1 | 3155.9 | 3121.6 |
| 27.5° | 3480.7 | 3435.6 | 3390.5 | 3341.8 | 3285.8 | 3231.7 | 3175.8 | 3123.4 | 3080.1 | 3045.8 | 3026.0 |
| 30° | 3318.3 | 3266.0 | 3213.6 | 3161.3 | 3112.6 | 3056.6 | 3004.3 | 2961.0 | 2917.7 | 2890.6 | 2870.8 |
| 32.5° | 3069.3 | 3022.4 | 2970.1 | 2919.5 | 2874.4 | 2827.5 | 2784.2 | 2746.3 | 2715.6 | 2697.6 | 2683.1 |
| 35° | 2733.7 | 2686.7 | 2647.1 | 2611.0 | 2573.1 | 2553.2 | 2526.2 | 2504.5 | 2491.9 | 2484.7 | 2482.9 |
| 37.5° | 2311.4 | 2284.4 | 2271.7 | 2264.5 | 2257.3 | 2251.9 | 2255.5 | 2264.5 | 2271.7 | 2284.4 | 2298.8 |
| 40° | 1860.3 | 1883.8 | 1891.0 | 1916.3 | 1939.7 | 1970.4 | 2004.7 | 2044.4 | 2076.8 | 2118.3 | 2147.2 |
| 42.5° | 1448.9 | 1492.2 | 1542.8 | 1596.9 | 1654.6 | 1710.6 | 1779.1 | 1842.3 | 1900.0 | 1952.3 | 1997.5 |
| 45° | 1113.3 | 1180.1 | 1255.9 | 1333.4 | 1411.1 | 1492.2 | 1575.2 | 1652.8 | 1721.4 | 1777.3 | 1824.3 |
| 47.5° | 867.9 | 941.9 | 1039.3 | 1135.0 | 1228.8 | 1324.4 | 1416.4 | 1497.6 | 1555.4 | 1609.5 | 1651.0 |
| 50° | 687.5 | 772.3 | 878.7 | 988.8 | 1091.7 | 1192.7 | 1290.1 | 1365.9 | 1423.7 | 1467.0 | 1497.6 |
| 52.5° | 532.3 | 633.3 | 741.6 | 857.1 | 967.2 | 1077.2 | 1167.4 | 1237.8 | 1284.7 | 1322.6 | 1346.1 |
| 55° | 397.0 | 496.2 | 611.7 | 730.8 | 842.7 | 949.1 | 1033.9 | 1095.3 | 1136.8 | 1158.4 | 1171.1 |
| 57.5° | 286.9 | 377.1 | 492.6 | 611.7 | 712.7 | 813.8 | 882.4 | 938.3 | 961.7 | 974.4 | 979.8 |
| 60° | 209.3 | 292.3 | 395.1 | 498.0 | 593.6 | 674.8 | 734.4 | 772.3 | 790.3 | 797.5 | 795.7 |
| 62.5° | 153.4 | 225.6 | 314.0 | 400.6 | 478.2 | 544.9 | 591.8 | 617.1 | 626.1 | 629.7 | 624.3 |
| 65° | 117.3 | 173.2 | 249.0 | 315.8 | 375.3 | 424.0 | 458.3 | 474.6 | 480.0 | 478.2 | 474.6 |
| 67.5° | 86.6 | 129.9 | 185.9 | 236.4 | 279.7 | 317.6 | 335.6 | 350.1 | 353.6 | 348.3 | 342.8 |
| 70° | 61.4 | 95.6 | 135.3 | 169.6 | 202.1 | 223.8 | 243.6 | 245.4 | 245.4 | 243.6 | 240.0 |
| 72.5° | 43.3 | 66.8 | 92.0 | 115.5 | 135.3 | 151.6 | 158.8 | 164.2 | 162.4 | 160.6 | 157.0 |
| 75° | 28.9 | 41.5 | 66.8 | 72.2 | 90.2 | 95.6 | 102.9 | 102.9 | 104.6 | 99.3 | 99.3 |
| 77.5° | 18.1 | 28.9 | 39.7 | 46.9 | 54.1 | 61.4 | 64.9 | 64.9 | 66.8 | 64.9 | 64.9 |
| 80° | 10.8 | 18.1 | 21.6 | 32.5 | 32.5 | 37.9 | 39.7 | 41.5 | 37.9 | 43.3 | 37.9 |
| 82.5° | 7.2 | 10.8 | 16.2 | 16.2 | 19.9 | 23.4 | 23.4 | 25.3 | 25.3 | 23.4 | 23.4 |
| 85° | 5.4 | 7.2 | 9.0 | 10.8 | 10.8 | 12.6 | 10.8 | 10.8 | 12.6 | 14.4 | 12.6 |
| 87.5° | 1.8 | 3.6 | 1.8 | 3.6 | 3.6 | 7.2 | 5.4 | 5.4 | 5.4 | 7.2 | 7.2 |
| 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: P248344

CATALOG NUMBER: LD8B60D010 ER8B60835 8LBDWOLI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3399.5 | 3399.5 | 3399.5 | 3399.5 |
| 2.5° | 3403.1 | 3404.9 | 3403.1 | 3403.1 |
| 5° | 3419.3 | 3417.5 | 3419.3 | 3415.7 |
| 7.5° | 3432.0 | 3432.0 | 3430.1 | 3430.1 |
| 10° | 3432.0 | 3424.8 | 3424.8 | 3424.8 |
| 12.5° | 3404.9 | 3395.9 | 3390.5 | 3386.8 |
| 15° | 3358.0 | 3341.8 | 3334.5 | 3332.7 |
| 17.5° | 3296.6 | 3282.2 | 3273.2 | 3267.8 |
| 20° | 3226.3 | 3211.8 | 3201.0 | 3202.8 |
| 22.5° | 3164.9 | 3148.7 | 3141.4 | 3137.8 |
| 25° | 3103.6 | 3083.7 | 3078.3 | 3074.7 |
| 27.5° | 3004.3 | 2993.5 | 2988.1 | 2982.7 |
| 30° | 2852.7 | 2847.3 | 2838.3 | 2850.9 |
| 32.5° | 2677.7 | 2668.7 | 2661.5 | 2666.9 |
| 35° | 2484.7 | 2479.2 | 2484.7 | 2481.0 |
| 37.5° | 2307.8 | 2313.2 | 2320.5 | 2324.0 |
| 40° | 2168.9 | 2188.7 | 2196.0 | 2199.5 |
| 42.5° | 2030.0 | 2053.4 | 2067.8 | 2076.8 |
| 45° | 1858.5 | 1882.0 | 1898.2 | 1909.1 |
| 47.5° | 1681.7 | 1701.6 | 1717.8 | 1716.0 |
| 50° | 1521.1 | 1531.9 | 1539.1 | 1546.4 |
| 52.5° | 1358.7 | 1358.7 | 1360.5 | 1360.5 |
| 55° | 1174.7 | 1171.1 | 1169.2 | 1171.1 |
| 57.5° | 972.6 | 969.0 | 967.2 | 961.7 |
| 60° | 788.5 | 777.7 | 770.5 | 770.5 |
| 62.5° | 617.1 | 604.5 | 599.1 | 597.3 |
| 65° | 463.7 | 461.9 | 451.1 | 449.3 |
| 67.5° | 335.6 | 328.4 | 321.2 | 323.0 |
| 70° | 236.4 | 225.6 | 225.6 | 221.9 |
| 72.5° | 153.4 | 147.9 | 146.1 | 146.1 |
| 75° | 95.6 | 95.6 | 92.0 | 99.3 |
| 77.5° | 63.1 | 63.1 | 61.4 | 63.1 |
| 80° | 37.9 | 37.9 | 37.9 | 36.1 |
| 82.5° | 23.4 | 25.3 | 23.4 | 23.4 |
| 85° | 12.6 | 14.4 | 10.8 | 16.2 |
| 87.5° | 7.2 | 9.0 | 7.2 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)