

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: P248444

Luminaire Tested: **LD8B70D010 ER8B70830 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248444
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: LD8B70D010 ER8B70830 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7397.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

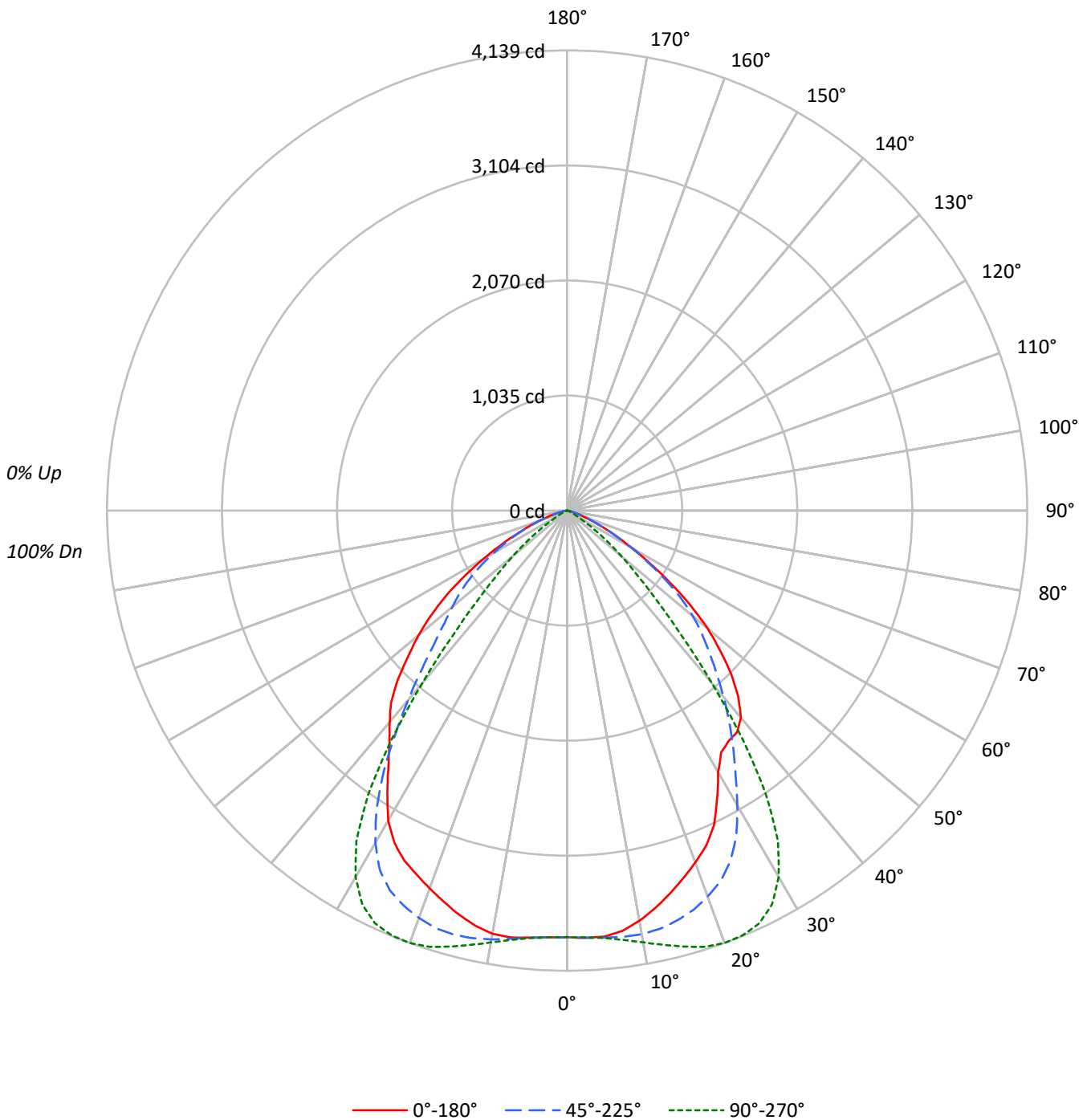
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248444

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248444

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0WH

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° | 118328 | 118328 | 118328 |
| 5° | 119034 | 119474 | 119347 |
| 10° | 117285 | 123473 | 121049 |
| 15° | 113854 | 129590 | 120095 |
| 20° | 110552 | 135816 | 118637 |
| 25° | 106305 | 139295 | 118087 |
| 30° | 96747 | 135476 | 114586 |
| 35° | 95304 | 117390 | 105426 |
| 40° | 97894 | 81414 | 99943 |
| 45° | 91134 | 49209 | 93978 |
| 50° | 79050 | 30386 | 83737 |
| 55° | 60664 | 15876 | 71067 |
| 60° | 41327 | 6408 | 53637 |
| 65° | 25706 | 3269 | 37001 |
| 70° | 13957 | 2020 | 22585 |
| 75° | 7280 | 965 | 13344 |
| 80° | 3250 | 1083 | 7227 |
| 85° | 2158 | 708 | 6475 |



TEST NUMBER: P248444

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 369.0 | 5.0 |
| 10°-20° | 1093.2 | 14.8 |
| 20°-30° | 1667.8 | 22.5 |
| 30°-40° | 1740.4 | 23.5 |
| 40°-50° | 1307.2 | 17.7 |
| 50°-60° | 804.3 | 10.9 |
| 60°-70° | 327.3 | 4.4 |
| 70°-80° | 77.1 | 1.0 |
| 80°-90° | 10.6 | 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° | 3130.0 | 42.3 |
| 0°-40° | 4870.4 | 65.8 |
| 0°-60° | 6981.9 | 94.4 |
| 0°-90° | 7397.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7397.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3837 | 3837 | 3837 | 3837 | 3837 | |
| 5° | 3846 | 3856 | 3860 | 3856 | 3856 | 364 |
| 15° | 3566 | 3817 | 4059 | 3947 | 3762 | 1005 |
| 25° | 3124 | 3475 | 4094 | 3770 | 3471 | 1420 |
| 35° | 2532 | 2603 | 3118 | 2882 | 2801 | 1599 |
| 45° | 2090 | 1809 | 1128 | 1684 | 2155 | 1594 |
| 55° | 1128 | 1071 | 295 | 1071 | 1322 | 1014 |
| 65° | 352 | 356 | 45 | 479 | 507 | 367 |
| 75° | 61 | 61 | 8 | 108 | 112 | 74 |
| 85° | 6 | 6 | 2 | 14 | 18 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248444

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 |
| 2.5° | 3847.5 | 3841.4 | 3847.5 | 3847.5 | 3849.6 | 3845.5 | 3847.5 | 3849.6 | 3845.5 | 3845.5 | 3845.5 |
| 5° | 3845.5 | 3841.4 | 3845.5 | 3843.4 | 3847.5 | 3847.5 | 3851.6 | 3851.6 | 3855.6 | 3855.6 | 3861.8 |
| 7.5° | 3812.9 | 3804.8 | 3812.9 | 3819.0 | 3823.0 | 3831.2 | 3841.4 | 3849.6 | 3857.7 | 3865.9 | 3876.0 |
| 10° | 3745.7 | 3745.7 | 3751.8 | 3764.0 | 3776.2 | 3790.5 | 3808.8 | 3829.2 | 3849.6 | 3867.9 | 3886.2 |
| 12.5° | 3662.2 | 3656.0 | 3668.3 | 3684.6 | 3702.9 | 3725.3 | 3753.8 | 3784.4 | 3817.0 | 3853.6 | 3882.2 |
| 15° | 3566.4 | 3560.3 | 3574.6 | 3590.9 | 3613.3 | 3645.9 | 3680.5 | 3721.2 | 3768.1 | 3817.0 | 3863.8 |
| 17.5° | 3468.7 | 3466.6 | 3480.9 | 3503.3 | 3521.6 | 3556.2 | 3601.1 | 3649.9 | 3702.9 | 3768.1 | 3829.2 |
| 20° | 3368.9 | 3366.8 | 3381.1 | 3399.4 | 3423.9 | 3456.4 | 3501.3 | 3558.3 | 3621.4 | 3694.8 | 3766.0 |
| 22.5° | 3265.0 | 3267.0 | 3279.2 | 3299.6 | 3320.0 | 3354.6 | 3401.4 | 3458.5 | 3527.7 | 3607.2 | 3686.6 |
| 25° | 3124.4 | 3114.3 | 3130.6 | 3150.9 | 3185.5 | 3214.0 | 3258.9 | 3320.0 | 3391.3 | 3474.8 | 3568.5 |
| 27.5° | 2920.7 | 2918.7 | 2933.0 | 2951.3 | 2981.9 | 3016.5 | 3065.4 | 3128.5 | 3203.9 | 3295.5 | 3387.2 |
| 30° | 2717.1 | 2721.2 | 2727.3 | 2745.6 | 2766.0 | 2800.6 | 2849.5 | 2902.5 | 2973.7 | 3061.3 | 3159.1 |
| 32.5° | 2578.6 | 2578.6 | 2586.7 | 2599.0 | 2613.2 | 2631.5 | 2666.2 | 2704.9 | 2759.9 | 2821.0 | 2892.2 |
| 35° | 2531.7 | 2523.6 | 2531.7 | 2533.8 | 2535.8 | 2539.9 | 2546.0 | 2558.2 | 2576.5 | 2603.0 | 2629.5 |
| 37.5° | 2511.4 | 2505.3 | 2505.3 | 2497.1 | 2486.9 | 2474.7 | 2458.4 | 2440.1 | 2419.7 | 2393.2 | 2372.9 |
| 40° | 2431.9 | 2427.9 | 2423.8 | 2415.7 | 2393.2 | 2368.8 | 2342.3 | 2299.5 | 2252.7 | 2187.5 | 2122.4 |
| 42.5° | 2279.2 | 2275.1 | 2273.1 | 2256.8 | 2236.4 | 2207.9 | 2177.3 | 2132.5 | 2073.5 | 1989.9 | 1896.2 |
| 45° | 2089.8 | 2081.6 | 2075.5 | 2061.3 | 2047.0 | 2022.5 | 1994.0 | 1953.3 | 1894.2 | 1808.7 | 1696.7 |
| 47.5° | 1869.8 | 1865.7 | 1863.7 | 1857.6 | 1843.3 | 1829.0 | 1810.7 | 1778.1 | 1725.2 | 1643.7 | 1527.6 |
| 50° | 1647.8 | 1639.6 | 1643.7 | 1641.7 | 1635.6 | 1625.4 | 1613.1 | 1590.7 | 1550.0 | 1476.7 | 1370.8 |
| 52.5° | 1393.1 | 1393.1 | 1391.2 | 1397.2 | 1399.3 | 1397.2 | 1399.3 | 1374.9 | 1340.2 | 1285.2 | 1195.6 |
| 55° | 1128.4 | 1128.4 | 1134.5 | 1142.7 | 1150.8 | 1152.8 | 1150.8 | 1140.6 | 1116.2 | 1071.3 | 991.9 |
| 57.5° | 879.9 | 875.8 | 888.0 | 900.3 | 908.4 | 916.6 | 910.4 | 902.3 | 888.0 | 851.4 | 790.3 |
| 60° | 670.1 | 670.1 | 678.2 | 686.4 | 694.5 | 702.7 | 700.7 | 698.6 | 686.4 | 661.9 | 613.1 |
| 62.5° | 492.9 | 494.9 | 494.9 | 501.1 | 509.2 | 517.4 | 523.4 | 517.4 | 511.2 | 494.9 | 462.3 |
| 65° | 352.3 | 350.3 | 352.3 | 358.5 | 364.6 | 372.7 | 376.8 | 374.8 | 368.6 | 356.4 | 332.0 |
| 67.5° | 236.3 | 234.2 | 242.4 | 244.4 | 248.5 | 256.7 | 254.6 | 256.7 | 254.6 | 244.4 | 224.1 |
| 70° | 154.8 | 150.7 | 154.8 | 152.8 | 158.9 | 160.9 | 165.0 | 167.0 | 165.0 | 158.9 | 152.8 |
| 72.5° | 95.7 | 93.7 | 95.7 | 97.8 | 99.8 | 101.8 | 105.9 | 105.9 | 103.9 | 99.8 | 91.7 |
| 75° | 61.1 | 55.0 | 57.0 | 53.0 | 57.0 | 57.0 | 61.1 | 63.1 | 61.1 | 61.1 | 57.0 |
| 77.5° | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 38.7 | 40.7 | 36.7 | 34.6 |
| 80° | 18.3 | 18.3 | 20.4 | 20.4 | 20.4 | 22.4 | 20.4 | 20.4 | 20.4 | 22.4 | 16.3 |
| 82.5° | 14.3 | 12.2 | 12.2 | 12.2 | 14.3 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| 85° | 6.1 | 8.1 | 6.1 | 4.1 | 6.1 | 6.1 | 8.1 | 6.1 | 6.1 | 6.1 | 8.1 |
| 87.5° | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 2.0 | 4.1 | 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: P248444

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 |
| 2.5° | 3847.5 | 3843.4 | 3843.4 | 3841.4 | 3845.5 | 3841.4 | 3843.4 | 3841.4 | 3841.4 | 3845.5 | 3841.4 |
| 5° | 3861.8 | 3863.8 | 3859.7 | 3857.7 | 3863.8 | 3863.8 | 3863.8 | 3859.7 | 3859.7 | 3861.8 | 3859.7 |
| 7.5° | 3882.2 | 3886.2 | 3888.2 | 3890.3 | 3894.4 | 3896.4 | 3896.4 | 3894.4 | 3892.3 | 3898.5 | 3890.3 |
| 10° | 3904.5 | 3910.7 | 3922.9 | 3929.0 | 3939.2 | 3939.2 | 3943.3 | 3943.3 | 3939.2 | 3943.3 | 3941.2 |
| 12.5° | 3896.4 | 3933.0 | 3953.4 | 3967.7 | 3981.9 | 3994.1 | 3998.2 | 4000.3 | 3998.2 | 4006.4 | 3998.2 |
| 15° | 3910.7 | 3941.2 | 3973.8 | 3998.2 | 4024.7 | 4038.9 | 4043.0 | 4059.3 | 4063.4 | 4065.5 | 4053.2 |
| 17.5° | 3888.2 | 3943.3 | 3977.8 | 4014.5 | 4053.2 | 4079.7 | 4104.1 | 4114.3 | 4116.4 | 4120.4 | 4104.1 |
| 20° | 3837.3 | 3898.5 | 3951.4 | 4004.4 | 4049.2 | 4089.9 | 4110.3 | 4138.8 | 4130.6 | 4146.9 | 4124.5 |
| 22.5° | 3768.1 | 3837.3 | 3904.5 | 3973.8 | 4020.7 | 4069.5 | 4112.3 | 4132.6 | 4142.9 | 4142.9 | 4118.4 |
| 25° | 3658.1 | 3739.6 | 3812.9 | 3884.1 | 3955.5 | 4014.5 | 4063.4 | 4094.0 | 4100.1 | 4098.0 | 4069.5 |
| 27.5° | 3487.0 | 3574.6 | 3660.1 | 3741.6 | 3829.2 | 3898.5 | 3955.5 | 3992.1 | 4002.3 | 4002.3 | 3971.8 |
| 30° | 3250.7 | 3344.4 | 3427.9 | 3525.7 | 3615.3 | 3692.7 | 3772.2 | 3804.8 | 3823.0 | 3823.0 | 3788.5 |
| 32.5° | 2969.6 | 3049.1 | 3126.5 | 3222.2 | 3320.0 | 3407.6 | 3482.9 | 3527.7 | 3550.1 | 3548.1 | 3517.5 |
| 35° | 2664.1 | 2702.8 | 2761.9 | 2833.2 | 2920.7 | 3002.2 | 3075.5 | 3118.4 | 3157.0 | 3155.0 | 3126.5 |
| 37.5° | 2358.6 | 2348.4 | 2354.5 | 2381.0 | 2436.0 | 2493.0 | 2550.1 | 2590.8 | 2623.4 | 2637.7 | 2631.5 |
| 40° | 2059.2 | 2006.2 | 1955.3 | 1937.0 | 1941.1 | 1961.4 | 1992.0 | 2022.5 | 2059.2 | 2077.6 | 2085.7 |
| 42.5° | 1790.3 | 1700.7 | 1611.1 | 1543.9 | 1505.2 | 1493.0 | 1507.2 | 1517.4 | 1539.8 | 1566.3 | 1592.8 |
| 45° | 1574.5 | 1454.3 | 1336.1 | 1232.3 | 1167.1 | 1128.4 | 1120.2 | 1128.4 | 1140.6 | 1167.1 | 1201.7 |
| 47.5° | 1397.2 | 1256.7 | 1124.3 | 1008.2 | 912.5 | 861.6 | 847.3 | 843.2 | 855.5 | 879.9 | 926.7 |
| 50° | 1240.4 | 1099.9 | 953.2 | 818.8 | 719.0 | 661.9 | 641.6 | 633.4 | 647.7 | 666.0 | 708.8 |
| 52.5° | 1069.3 | 930.8 | 780.1 | 649.7 | 545.9 | 486.8 | 464.4 | 452.2 | 460.3 | 484.8 | 527.5 |
| 55° | 884.0 | 755.6 | 619.2 | 484.8 | 384.9 | 330.0 | 303.5 | 295.3 | 303.5 | 330.0 | 372.7 |
| 57.5° | 698.6 | 590.7 | 476.6 | 350.3 | 260.7 | 205.7 | 179.2 | 171.1 | 193.5 | 203.7 | 248.5 |
| 60° | 545.9 | 458.3 | 360.5 | 256.7 | 179.2 | 136.5 | 110.0 | 103.9 | 114.1 | 132.4 | 169.0 |
| 62.5° | 409.4 | 354.4 | 277.0 | 183.3 | 132.4 | 87.6 | 73.3 | 67.2 | 73.3 | 87.6 | 116.1 |
| 65° | 297.4 | 254.6 | 193.5 | 134.4 | 89.6 | 65.2 | 48.9 | 44.8 | 50.9 | 61.1 | 85.6 |
| 67.5° | 203.7 | 171.1 | 134.4 | 93.7 | 61.1 | 40.7 | 34.6 | 34.6 | 36.7 | 44.8 | 63.1 |
| 70° | 132.4 | 112.0 | 85.6 | 61.1 | 40.7 | 30.6 | 26.5 | 22.4 | 26.5 | 32.6 | 42.8 |
| 72.5° | 83.5 | 71.3 | 55.0 | 42.8 | 30.6 | 22.4 | 18.3 | 16.3 | 20.4 | 24.4 | 32.6 |
| 75° | 50.9 | 38.7 | 28.5 | 22.4 | 16.3 | 16.3 | 16.3 | 8.1 | 10.2 | 16.3 | 20.4 |
| 77.5° | 30.6 | 26.5 | 22.4 | 18.3 | 14.3 | 8.1 | 8.1 | 8.1 | 10.2 | 12.2 | 18.3 |
| 80° | 16.3 | 14.3 | 10.2 | 10.2 | 8.1 | 6.1 | 8.1 | 6.1 | 4.1 | 10.2 | 12.2 |
| 82.5° | 10.2 | 8.1 | 8.1 | 8.1 | 10.2 | 4.1 | 6.1 | 4.1 | 6.1 | 8.1 | 6.1 |
| 85° | 6.1 | 6.1 | 6.1 | 4.1 | 10.2 | 4.1 | 4.1 | 2.0 | 2.0 | 4.1 | 4.1 |
| 87.5° | 0.0 | 2.0 | 2.0 | 0.0 | 2.0 | 0.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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: P248444

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 | 3837.3 |
| 2.5° | 3843.4 | 3841.4 | 3843.4 | 3841.4 | 3841.4 | 3841.4 | 3843.4 | 3843.4 | 3841.4 | 3841.4 | 3845.5 |
| 5° | 3859.7 | 3859.7 | 3859.7 | 3857.7 | 3855.6 | 3855.6 | 3859.7 | 3859.7 | 3853.6 | 3859.7 | 3859.7 |
| 7.5° | 3894.4 | 3888.2 | 3894.4 | 3886.2 | 3882.2 | 3884.1 | 3886.2 | 3882.2 | 3878.1 | 3880.1 | 3880.1 |
| 10° | 3939.2 | 3933.0 | 3933.0 | 3927.0 | 3920.8 | 3916.7 | 3912.7 | 3902.5 | 3892.3 | 3890.3 | 3882.2 |
| 12.5° | 3992.1 | 3981.9 | 3975.8 | 3963.6 | 3953.4 | 3939.2 | 3927.0 | 3910.7 | 3890.3 | 3876.0 | 3861.8 |
| 15° | 4045.1 | 4028.8 | 4014.5 | 3994.1 | 3971.8 | 3947.3 | 3920.8 | 3894.4 | 3861.8 | 3833.3 | 3808.8 |
| 17.5° | 4087.8 | 4065.5 | 4038.9 | 4006.4 | 3973.8 | 3937.1 | 3898.5 | 3859.7 | 3812.9 | 3776.2 | 3747.7 |
| 20° | 4102.1 | 4069.5 | 4034.9 | 3992.1 | 3949.3 | 3898.5 | 3849.6 | 3798.6 | 3745.7 | 3707.0 | 3674.4 |
| 22.5° | 4083.8 | 4045.1 | 4002.3 | 3957.5 | 3900.4 | 3845.5 | 3788.5 | 3729.4 | 3682.5 | 3629.6 | 3599.0 |
| 25° | 4032.9 | 3986.0 | 3939.2 | 3886.2 | 3831.2 | 3770.1 | 3709.0 | 3647.9 | 3590.9 | 3562.4 | 3523.7 |
| 27.5° | 3929.0 | 3878.1 | 3827.1 | 3772.2 | 3709.0 | 3647.9 | 3584.8 | 3525.7 | 3476.8 | 3438.1 | 3415.7 |
| 30° | 3745.7 | 3686.6 | 3627.5 | 3568.5 | 3513.5 | 3450.3 | 3391.3 | 3342.4 | 3293.5 | 3262.9 | 3240.6 |
| 32.5° | 3464.6 | 3411.6 | 3352.6 | 3295.5 | 3244.6 | 3191.7 | 3142.8 | 3100.0 | 3065.4 | 3045.0 | 3028.7 |
| 35° | 3085.8 | 3032.8 | 2988.0 | 2947.3 | 2904.5 | 2882.1 | 2851.5 | 2827.1 | 2812.8 | 2804.7 | 2802.6 |
| 37.5° | 2609.1 | 2578.6 | 2564.3 | 2556.2 | 2548.0 | 2541.9 | 2546.0 | 2556.2 | 2564.3 | 2578.6 | 2594.9 |
| 40° | 2099.9 | 2126.4 | 2134.6 | 2163.1 | 2189.5 | 2224.2 | 2262.9 | 2307.7 | 2344.3 | 2391.2 | 2423.8 |
| 42.5° | 1635.6 | 1684.4 | 1741.5 | 1802.6 | 1867.7 | 1930.9 | 2008.3 | 2079.6 | 2144.7 | 2203.8 | 2254.7 |
| 45° | 1256.7 | 1332.0 | 1417.6 | 1505.2 | 1592.8 | 1684.4 | 1778.1 | 1865.7 | 1943.1 | 2006.2 | 2059.2 |
| 47.5° | 979.7 | 1063.2 | 1173.2 | 1281.2 | 1387.1 | 1495.0 | 1598.9 | 1690.5 | 1755.7 | 1816.8 | 1863.7 |
| 50° | 776.0 | 871.7 | 991.9 | 1116.2 | 1232.3 | 1346.3 | 1456.3 | 1541.9 | 1607.0 | 1655.9 | 1690.5 |
| 52.5° | 600.8 | 714.9 | 837.1 | 967.5 | 1091.7 | 1216.0 | 1317.8 | 1397.2 | 1450.2 | 1493.0 | 1519.4 |
| 55° | 448.1 | 560.1 | 690.5 | 824.9 | 951.2 | 1071.3 | 1167.1 | 1236.4 | 1283.2 | 1307.6 | 1321.9 |
| 57.5° | 323.8 | 425.7 | 556.0 | 690.5 | 804.5 | 918.6 | 996.0 | 1059.1 | 1085.6 | 1099.9 | 1106.0 |
| 60° | 236.3 | 330.0 | 446.0 | 562.2 | 670.1 | 761.8 | 829.0 | 871.7 | 892.1 | 900.3 | 898.2 |
| 62.5° | 173.1 | 254.6 | 354.4 | 452.2 | 539.7 | 615.1 | 668.1 | 696.6 | 706.8 | 710.8 | 704.7 |
| 65° | 132.4 | 195.5 | 281.1 | 356.4 | 423.7 | 478.6 | 517.4 | 535.7 | 541.8 | 539.7 | 535.7 |
| 67.5° | 97.8 | 146.7 | 209.8 | 266.8 | 315.7 | 358.5 | 378.9 | 395.2 | 399.2 | 393.1 | 387.0 |
| 70° | 69.3 | 107.9 | 152.8 | 191.5 | 228.1 | 252.6 | 275.0 | 277.0 | 277.0 | 275.0 | 270.9 |
| 72.5° | 48.9 | 75.4 | 103.9 | 130.4 | 152.8 | 171.1 | 179.2 | 185.3 | 183.3 | 181.3 | 177.2 |
| 75° | 32.6 | 46.8 | 75.4 | 81.5 | 101.8 | 107.9 | 116.1 | 116.1 | 118.1 | 112.0 | 112.0 |
| 77.5° | 20.4 | 32.6 | 44.8 | 53.0 | 61.1 | 69.3 | 73.3 | 73.3 | 75.4 | 73.3 | 73.3 |
| 80° | 12.2 | 20.4 | 24.4 | 36.7 | 36.7 | 42.8 | 44.8 | 46.8 | 42.8 | 48.9 | 42.8 |
| 82.5° | 8.1 | 12.2 | 18.3 | 18.3 | 22.4 | 26.5 | 26.5 | 28.5 | 28.5 | 26.5 | 26.5 |
| 85° | 6.1 | 8.1 | 10.2 | 12.2 | 12.2 | 14.3 | 12.2 | 12.2 | 14.3 | 16.3 | 14.3 |
| 87.5° | 2.0 | 4.1 | 2.0 | 4.1 | 4.1 | 8.1 | 6.1 | 6.1 | 6.1 | 8.1 | 8.1 |
| 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: P248444

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3837.3 | 3837.3 | 3837.3 | 3837.3 |
| 2.5° | 3841.4 | 3843.4 | 3841.4 | 3841.4 |
| 5° | 3859.7 | 3857.7 | 3859.7 | 3855.6 |
| 7.5° | 3874.0 | 3874.0 | 3871.9 | 3871.9 |
| 10° | 3874.0 | 3865.9 | 3865.9 | 3865.9 |
| 12.5° | 3843.4 | 3833.3 | 3827.1 | 3823.0 |
| 15° | 3790.5 | 3772.2 | 3764.0 | 3761.9 |
| 17.5° | 3721.2 | 3704.9 | 3694.8 | 3688.6 |
| 20° | 3641.8 | 3625.5 | 3613.3 | 3615.3 |
| 22.5° | 3572.5 | 3554.2 | 3546.1 | 3542.0 |
| 25° | 3503.3 | 3480.9 | 3474.8 | 3470.7 |
| 27.5° | 3391.3 | 3379.1 | 3372.9 | 3366.8 |
| 30° | 3220.2 | 3214.0 | 3203.9 | 3218.1 |
| 32.5° | 3022.6 | 3012.4 | 3004.3 | 3010.4 |
| 35° | 2804.7 | 2798.5 | 2804.7 | 2800.6 |
| 37.5° | 2605.1 | 2611.2 | 2619.3 | 2623.4 |
| 40° | 2448.2 | 2470.6 | 2478.8 | 2482.8 |
| 42.5° | 2291.4 | 2317.9 | 2334.2 | 2344.3 |
| 45° | 2097.9 | 2124.4 | 2142.7 | 2155.0 |
| 47.5° | 1898.3 | 1920.7 | 1939.0 | 1937.0 |
| 50° | 1717.0 | 1729.2 | 1737.4 | 1745.5 |
| 52.5° | 1533.7 | 1533.7 | 1535.7 | 1535.7 |
| 55° | 1326.0 | 1321.9 | 1319.8 | 1321.9 |
| 57.5° | 1097.8 | 1093.8 | 1091.7 | 1085.6 |
| 60° | 890.1 | 877.9 | 869.7 | 869.7 |
| 62.5° | 696.6 | 682.3 | 676.2 | 674.2 |
| 65° | 523.4 | 521.4 | 509.2 | 507.1 |
| 67.5° | 378.9 | 370.7 | 362.6 | 364.6 |
| 70° | 266.8 | 254.6 | 254.6 | 250.5 |
| 72.5° | 173.1 | 167.0 | 165.0 | 165.0 |
| 75° | 107.9 | 107.9 | 103.9 | 112.0 |
| 77.5° | 71.3 | 71.3 | 69.3 | 71.3 |
| 80° | 42.8 | 42.8 | 42.8 | 40.7 |
| 82.5° | 26.5 | 28.5 | 26.5 | 26.5 |
| 85° | 14.3 | 16.3 | 12.2 | 18.3 |
| 87.5° | 8.1 | 10.2 | 8.1 | 10.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)