

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: P249407

Luminaire Tested: **LD8B70D010 ER8B70827 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70827 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6337.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

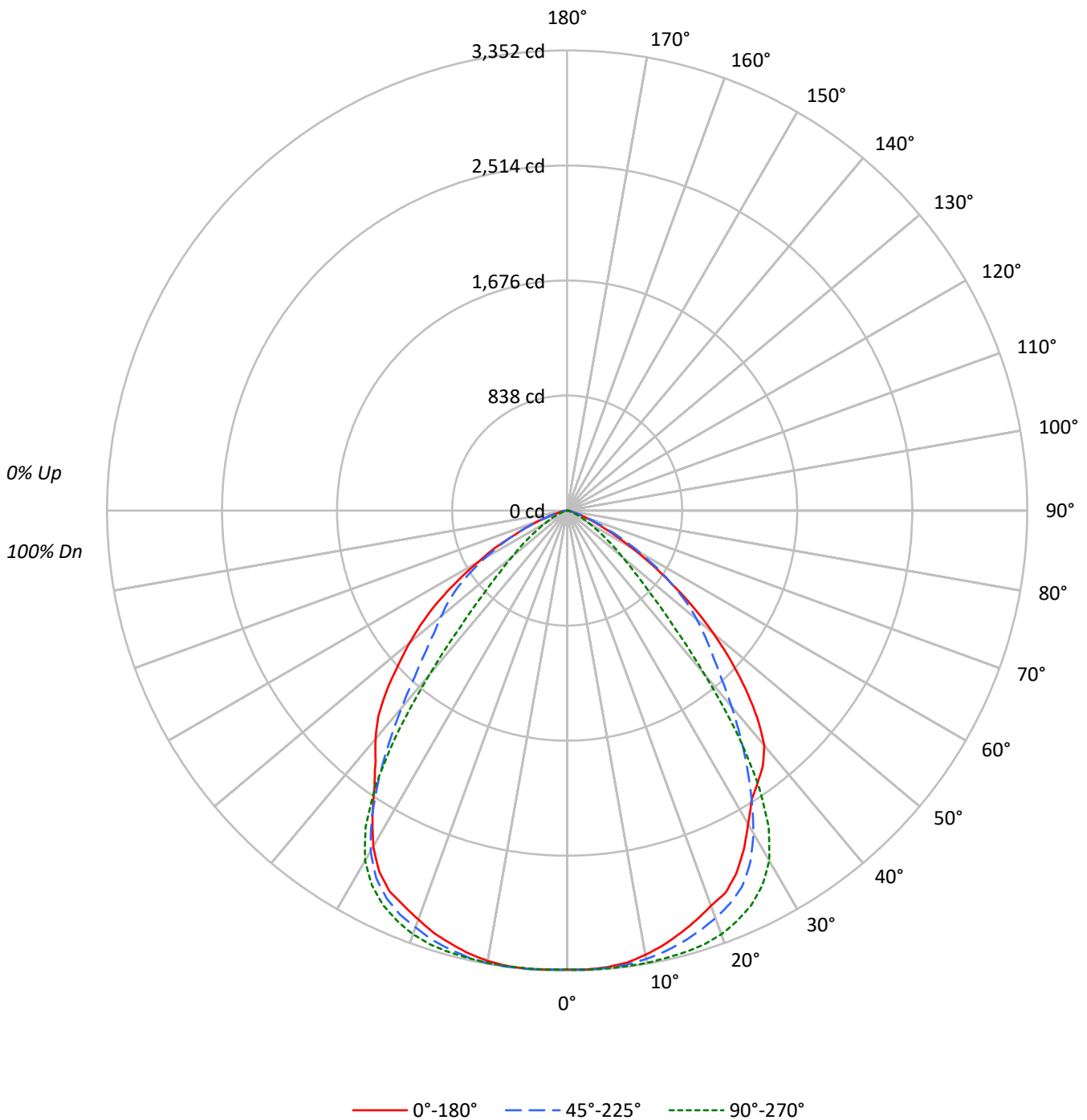
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249407

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P249407

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0B

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 | 91 | 90 | | | | | 90 | | | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | | | 55 | | | |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 | | | | | 50 | | | |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 103101 | 103101 | 103101 |
| 5° | 103328 | 103606 | 103718 |
| 10° | 102894 | 104748 | 104300 |
| 15° | 101755 | 106282 | 104277 |
| 20° | 100533 | 107775 | 104008 |
| 25° | 99228 | 107901 | 104114 |
| 30° | 93874 | 104865 | 100585 |
| 35° | 91073 | 91137 | 92085 |
| 40° | 89943 | 62708 | 87415 |
| 45° | 80145 | 37648 | 81239 |
| 50° | 66639 | 25056 | 71806 |
| 55° | 49977 | 17274 | 60879 |
| 60° | 33871 | 11508 | 45934 |
| 65° | 20430 | 7464 | 31557 |
| 70° | 11324 | 4048 | 19420 |
| 75° | 5135 | 1716 | 10056 |
| 80° | 4457 | 1918 | 7014 |
| 85° | 5095 | 2547 | 7005 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 319.1 | 5.0 |
| 10°-20° | 926.7 | 14.6 |
| 20°-30° | 1406.5 | 22.2 |
| 30°-40° | 1477.3 | 23.3 |
| 40°-50° | 1107.6 | 17.5 |
| 50°-60° | 710.6 | 11.2 |
| 60°-70° | 304.0 | 4.8 |
| 70°-80° | 71.8 | 1.1 |
| 80°-90° | 13.4 | 0.2 |
| 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° | 2652.3 | 41.9 |
| 0°-40° | 4129.6 | 65.2 |
| 0°-60° | 5947.8 | 93.9 |
| 0°-90° | 6337.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6337.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3344 | 3344 | 3344 | 3344 | 3344 | |
| 5° | 3338 | 3344 | 3347 | 3352 | 3351 | 317 |
| 15° | 3187 | 3254 | 3329 | 3308 | 3266 | 899 |
| 25° | 2916 | 3019 | 3171 | 3114 | 3060 | 1332 |
| 35° | 2419 | 2285 | 2421 | 2392 | 2446 | 1518 |
| 45° | 1838 | 1502 | 863 | 1459 | 1863 | 1407 |
| 55° | 930 | 930 | 321 | 969 | 1132 | 843 |
| 65° | 280 | 330 | 102 | 425 | 432 | 299 |
| 75° | 43 | 50 | 14 | 86 | 84 | 63 |
| 85° | 14 | 9 | 7 | 14 | 20 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249407

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 |
| 2.5° | 3345.3 | 3348.9 | 3347.1 | 3347.1 | 3345.3 | 3347.1 | 3347.1 | 3350.7 | 3350.7 | 3347.1 | 3345.3 |
| 5° | 3338.1 | 3341.7 | 3341.7 | 3338.1 | 3338.1 | 3347.1 | 3341.7 | 3345.3 | 3345.3 | 3343.5 | 3343.5 |
| 7.5° | 3322.0 | 3322.0 | 3329.2 | 3323.8 | 3323.8 | 3329.2 | 3327.4 | 3331.0 | 3334.6 | 3336.4 | 3336.4 |
| 10° | 3286.1 | 3289.7 | 3291.5 | 3291.5 | 3293.3 | 3298.6 | 3302.2 | 3309.4 | 3313.0 | 3316.6 | 3318.4 |
| 12.5° | 3241.3 | 3246.6 | 3248.4 | 3246.6 | 3252.0 | 3259.2 | 3268.2 | 3277.1 | 3282.5 | 3289.7 | 3295.1 |
| 15° | 3187.4 | 3187.4 | 3191.0 | 3196.4 | 3200.0 | 3210.7 | 3219.7 | 3230.4 | 3244.8 | 3253.8 | 3262.8 |
| 17.5° | 3128.2 | 3131.8 | 3137.1 | 3137.1 | 3144.3 | 3162.3 | 3167.7 | 3183.8 | 3200.0 | 3208.9 | 3226.9 |
| 20° | 3063.6 | 3067.1 | 3072.5 | 3076.1 | 3085.1 | 3099.5 | 3110.2 | 3124.6 | 3142.5 | 3158.7 | 3176.6 |
| 22.5° | 3013.3 | 3006.1 | 3009.7 | 3013.3 | 3022.3 | 3034.9 | 3047.4 | 3065.3 | 3083.3 | 3099.5 | 3117.4 |
| 25° | 2916.4 | 2918.2 | 2923.6 | 2927.1 | 2937.9 | 2948.7 | 2963.1 | 2984.6 | 3000.7 | 3018.7 | 3038.4 |
| 27.5° | 2785.4 | 2787.2 | 2796.1 | 2796.1 | 2805.1 | 2823.1 | 2832.0 | 2850.0 | 2871.5 | 2889.5 | 2912.8 |
| 30° | 2636.4 | 2640.0 | 2640.0 | 2647.2 | 2652.5 | 2661.5 | 2670.5 | 2688.5 | 2699.2 | 2715.4 | 2747.7 |
| 32.5° | 2500.0 | 2503.6 | 2501.8 | 2500.0 | 2494.6 | 2492.8 | 2491.0 | 2494.6 | 2498.2 | 2503.6 | 2516.2 |
| 35° | 2419.3 | 2410.3 | 2403.1 | 2390.6 | 2376.2 | 2358.2 | 2342.1 | 2320.6 | 2300.8 | 2284.6 | 2266.7 |
| 37.5° | 2342.1 | 2340.3 | 2329.5 | 2311.6 | 2282.8 | 2250.6 | 2212.9 | 2166.2 | 2119.5 | 2069.3 | 2020.9 |
| 40° | 2234.4 | 2229.0 | 2220.0 | 2194.9 | 2162.6 | 2123.1 | 2072.9 | 2015.5 | 1940.1 | 1862.9 | 1783.9 |
| 42.5° | 2051.3 | 2053.1 | 2042.4 | 2022.6 | 1992.1 | 1954.4 | 1902.4 | 1839.6 | 1758.8 | 1667.3 | 1565.0 |
| 45° | 1837.8 | 1837.8 | 1834.2 | 1818.0 | 1796.5 | 1766.0 | 1726.5 | 1674.5 | 1595.5 | 1502.1 | 1392.7 |
| 47.5° | 1615.2 | 1617.0 | 1611.6 | 1608.1 | 1599.1 | 1579.3 | 1550.6 | 1511.1 | 1455.5 | 1365.8 | 1256.3 |
| 50° | 1389.1 | 1389.1 | 1398.1 | 1396.3 | 1396.3 | 1389.1 | 1376.6 | 1353.2 | 1304.8 | 1233.0 | 1130.7 |
| 52.5° | 1163.0 | 1166.6 | 1172.0 | 1179.1 | 1188.1 | 1202.4 | 1188.1 | 1177.3 | 1146.8 | 1091.2 | 1003.2 |
| 55° | 929.6 | 933.2 | 942.2 | 954.8 | 965.6 | 979.9 | 983.5 | 983.5 | 967.3 | 929.6 | 863.3 |
| 57.5° | 730.5 | 725.1 | 732.3 | 743.0 | 757.4 | 771.7 | 782.5 | 795.1 | 793.3 | 768.1 | 714.3 |
| 60° | 549.2 | 551.0 | 556.3 | 567.1 | 577.9 | 590.5 | 604.8 | 615.6 | 621.0 | 608.4 | 574.3 |
| 62.5° | 400.2 | 400.2 | 407.4 | 418.1 | 423.5 | 441.5 | 450.5 | 455.9 | 461.2 | 459.4 | 437.9 |
| 65° | 280.0 | 283.5 | 287.2 | 292.6 | 297.9 | 308.7 | 314.1 | 324.8 | 328.4 | 330.2 | 314.1 |
| 67.5° | 197.4 | 192.0 | 195.6 | 199.2 | 204.6 | 211.8 | 222.6 | 222.6 | 227.9 | 227.9 | 217.2 |
| 70° | 125.6 | 125.6 | 127.4 | 132.8 | 136.4 | 138.2 | 141.8 | 145.4 | 150.8 | 149.0 | 149.0 |
| 72.5° | 84.4 | 82.6 | 84.4 | 86.2 | 88.0 | 93.3 | 93.3 | 95.1 | 98.7 | 100.5 | 93.3 |
| 75° | 43.1 | 44.9 | 48.4 | 46.7 | 52.0 | 48.4 | 50.2 | 55.6 | 53.8 | 50.2 | 50.2 |
| 77.5° | 35.9 | 35.9 | 35.9 | 34.1 | 37.7 | 37.7 | 35.9 | 39.5 | 37.7 | 37.7 | 35.9 |
| 80° | 25.1 | 26.9 | 25.1 | 23.3 | 25.1 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 21.5 |
| 82.5° | 19.8 | 16.2 | 18.0 | 16.2 | 18.0 | 18.0 | 16.2 | 14.4 | 14.4 | 16.2 | 14.4 |
| 85° | 14.4 | 10.8 | 12.6 | 12.6 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 9.0 | 9.0 |
| 87.5° | 9.0 | 5.4 | 5.4 | 5.4 | 7.2 | 7.2 | 7.2 | 5.4 | 7.2 | 7.2 | 3.6 |
| 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: P249407

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 |
| 2.5° | 3348.9 | 3347.1 | 3350.7 | 3348.9 | 3348.9 | 3347.1 | 3348.9 | 3347.1 | 3350.7 | 3343.5 | 3345.3 |
| 5° | 3348.9 | 3345.3 | 3347.1 | 3348.9 | 3350.7 | 3347.1 | 3347.1 | 3347.1 | 3350.7 | 3347.1 | 3348.9 |
| 7.5° | 3341.7 | 3339.9 | 3345.3 | 3348.9 | 3347.1 | 3345.3 | 3348.9 | 3347.1 | 3350.7 | 3348.9 | 3352.5 |
| 10° | 3327.4 | 3329.2 | 3332.8 | 3338.1 | 3339.9 | 3341.7 | 3345.3 | 3345.3 | 3350.7 | 3343.5 | 3347.1 |
| 12.5° | 3305.8 | 3313.0 | 3322.0 | 3325.6 | 3332.8 | 3332.8 | 3336.4 | 3338.1 | 3341.7 | 3339.9 | 3345.3 |
| 15° | 3278.9 | 3287.9 | 3298.6 | 3307.6 | 3316.6 | 3322.0 | 3327.4 | 3329.2 | 3334.6 | 3329.2 | 3331.0 |
| 17.5° | 3246.6 | 3257.4 | 3273.5 | 3284.3 | 3298.6 | 3304.0 | 3311.2 | 3314.8 | 3320.2 | 3316.6 | 3318.4 |
| 20° | 3201.7 | 3214.3 | 3232.2 | 3248.4 | 3257.4 | 3269.9 | 3278.9 | 3284.3 | 3287.9 | 3284.3 | 3286.1 |
| 22.5° | 3138.9 | 3156.9 | 3180.2 | 3192.8 | 3210.7 | 3221.5 | 3223.3 | 3235.8 | 3244.8 | 3235.8 | 3239.5 |
| 25° | 3065.3 | 3083.3 | 3101.3 | 3128.2 | 3144.3 | 3156.9 | 3169.5 | 3171.3 | 3180.2 | 3178.4 | 3176.6 |
| 27.5° | 2943.3 | 2966.7 | 2997.1 | 3018.7 | 3040.2 | 3060.0 | 3074.3 | 3077.9 | 3086.9 | 3083.3 | 3085.1 |
| 30° | 2776.4 | 2801.5 | 2830.3 | 2864.3 | 2894.9 | 2914.6 | 2932.5 | 2945.1 | 2954.1 | 2948.7 | 2946.9 |
| 32.5° | 2539.5 | 2564.6 | 2595.2 | 2629.2 | 2665.1 | 2693.8 | 2715.4 | 2731.5 | 2742.3 | 2738.7 | 2729.7 |
| 35° | 2268.5 | 2275.7 | 2295.4 | 2322.4 | 2352.8 | 2383.4 | 2403.1 | 2421.0 | 2433.6 | 2437.2 | 2437.2 |
| 37.5° | 1990.3 | 1967.0 | 1952.7 | 1952.7 | 1970.6 | 1983.1 | 2001.1 | 2011.9 | 2031.6 | 2038.8 | 2044.2 |
| 40° | 1721.1 | 1667.3 | 1617.0 | 1579.3 | 1554.2 | 1552.4 | 1552.4 | 1557.8 | 1575.7 | 1599.1 | 1620.6 |
| 42.5° | 1480.6 | 1394.5 | 1317.3 | 1247.3 | 1197.1 | 1168.4 | 1155.8 | 1157.6 | 1172.0 | 1193.5 | 1229.4 |
| 45° | 1288.6 | 1180.9 | 1084.0 | 999.6 | 931.4 | 886.6 | 865.1 | 863.3 | 874.0 | 899.1 | 938.6 |
| 47.5° | 1139.6 | 1024.8 | 915.3 | 818.4 | 744.8 | 696.3 | 671.2 | 664.1 | 671.2 | 694.5 | 741.2 |
| 50° | 1015.8 | 897.4 | 784.3 | 683.8 | 604.8 | 554.6 | 531.2 | 522.3 | 531.2 | 551.0 | 597.6 |
| 52.5° | 900.9 | 778.9 | 673.0 | 576.1 | 491.7 | 448.7 | 423.5 | 418.1 | 423.5 | 446.9 | 484.6 |
| 55° | 768.1 | 664.1 | 559.9 | 463.0 | 389.5 | 346.4 | 326.6 | 321.3 | 326.6 | 348.2 | 387.7 |
| 57.5° | 637.1 | 547.4 | 455.9 | 367.9 | 305.1 | 267.4 | 249.5 | 242.3 | 254.8 | 269.2 | 315.9 |
| 60° | 515.1 | 443.3 | 366.1 | 289.0 | 236.9 | 202.8 | 188.4 | 186.6 | 190.2 | 208.2 | 240.5 |
| 62.5° | 403.8 | 344.6 | 283.5 | 220.8 | 177.7 | 163.3 | 145.4 | 143.6 | 147.2 | 157.9 | 183.1 |
| 65° | 290.8 | 253.1 | 206.4 | 161.5 | 127.4 | 107.7 | 100.5 | 102.3 | 105.9 | 113.1 | 136.4 |
| 67.5° | 202.8 | 175.9 | 143.6 | 113.1 | 88.0 | 79.0 | 71.8 | 70.0 | 71.8 | 84.4 | 96.9 |
| 70° | 136.4 | 120.2 | 96.9 | 86.2 | 61.0 | 48.4 | 50.2 | 44.9 | 52.0 | 52.0 | 62.8 |
| 72.5° | 89.7 | 79.0 | 64.6 | 50.2 | 43.1 | 34.1 | 34.1 | 32.3 | 35.9 | 37.7 | 46.7 |
| 75° | 46.7 | 35.9 | 35.9 | 25.1 | 18.0 | 9.0 | 16.2 | 14.4 | 12.6 | 14.4 | 18.0 |
| 77.5° | 32.3 | 26.9 | 25.1 | 19.8 | 18.0 | 14.4 | 14.4 | 14.4 | 14.4 | 16.2 | 18.0 |
| 80° | 19.8 | 19.8 | 14.4 | 12.6 | 10.8 | 9.0 | 10.8 | 10.8 | 10.8 | 10.8 | 12.6 |
| 82.5° | 12.6 | 10.8 | 10.8 | 9.0 | 9.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 10.8 |
| 85° | 10.8 | 7.2 | 7.2 | 5.4 | 7.2 | 12.6 | 5.4 | 7.2 | 7.2 | 7.2 | 5.4 |
| 87.5° | 3.6 | 5.4 | 5.4 | 5.4 | 3.6 | 1.8 | 3.6 | 5.4 | 5.4 | 9.0 | 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: P249407

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 | 3343.5 |
| 2.5° | 3348.9 | 3350.7 | 3350.7 | 3348.9 | 3348.9 | 3345.3 | 3352.5 | 3347.1 | 3348.9 | 3356.1 | 3350.7 |
| 5° | 3352.5 | 3354.3 | 3354.3 | 3352.5 | 3352.5 | 3352.5 | 3354.3 | 3354.3 | 3352.5 | 3350.7 | 3354.3 |
| 7.5° | 3359.7 | 3357.9 | 3357.9 | 3354.3 | 3354.3 | 3350.7 | 3354.3 | 3348.9 | 3352.5 | 3348.9 | 3354.3 |
| 10° | 3350.7 | 3352.5 | 3350.7 | 3348.9 | 3348.9 | 3347.1 | 3347.1 | 3341.7 | 3343.5 | 3338.1 | 3341.7 |
| 12.5° | 3345.3 | 3343.5 | 3343.5 | 3339.9 | 3336.4 | 3332.8 | 3331.0 | 3325.6 | 3325.6 | 3313.0 | 3318.4 |
| 15° | 3331.0 | 3332.8 | 3327.4 | 3320.2 | 3316.6 | 3307.6 | 3304.0 | 3296.8 | 3289.7 | 3280.7 | 3282.5 |
| 17.5° | 3318.4 | 3313.0 | 3305.8 | 3298.6 | 3284.3 | 3277.1 | 3269.9 | 3259.2 | 3255.6 | 3244.8 | 3241.3 |
| 20° | 3280.7 | 3277.1 | 3268.2 | 3255.6 | 3246.6 | 3230.4 | 3223.3 | 3212.5 | 3203.5 | 3192.8 | 3187.4 |
| 22.5° | 3232.2 | 3228.6 | 3217.9 | 3205.3 | 3191.0 | 3183.8 | 3176.6 | 3156.9 | 3147.9 | 3137.1 | 3135.3 |
| 25° | 3171.3 | 3165.9 | 3155.1 | 3140.7 | 3133.5 | 3113.8 | 3106.6 | 3092.3 | 3088.7 | 3077.9 | 3076.1 |
| 27.5° | 3077.9 | 3070.7 | 3058.2 | 3040.2 | 3027.7 | 3015.1 | 3007.9 | 2997.1 | 2993.6 | 2982.8 | 2981.0 |
| 30° | 2937.9 | 2928.9 | 2903.8 | 2896.7 | 2875.1 | 2862.5 | 2862.5 | 2848.2 | 2850.0 | 2842.8 | 2842.8 |
| 32.5° | 2717.2 | 2702.8 | 2683.1 | 2668.7 | 2654.3 | 2647.2 | 2647.2 | 2641.8 | 2645.4 | 2645.4 | 2649.0 |
| 35° | 2424.6 | 2404.9 | 2394.1 | 2385.2 | 2385.2 | 2392.3 | 2413.9 | 2419.3 | 2430.0 | 2439.0 | 2446.2 |
| 37.5° | 2049.5 | 2047.8 | 2060.3 | 2071.1 | 2098.0 | 2128.5 | 2166.2 | 2198.5 | 2229.0 | 2250.6 | 2272.1 |
| 40° | 1643.9 | 1688.8 | 1724.7 | 1775.0 | 1816.2 | 1875.5 | 1943.7 | 1999.3 | 2051.3 | 2089.0 | 2128.5 |
| 42.5° | 1283.2 | 1340.6 | 1416.0 | 1489.6 | 1563.2 | 1643.9 | 1733.7 | 1810.9 | 1879.1 | 1931.1 | 1972.4 |
| 45° | 999.6 | 1078.6 | 1170.2 | 1263.5 | 1358.6 | 1459.1 | 1552.4 | 1631.4 | 1703.2 | 1757.0 | 1798.3 |
| 47.5° | 805.8 | 892.0 | 996.0 | 1098.4 | 1206.0 | 1311.9 | 1416.0 | 1484.2 | 1543.4 | 1586.5 | 1624.2 |
| 50° | 665.8 | 757.4 | 866.9 | 983.5 | 1091.2 | 1197.1 | 1286.8 | 1353.2 | 1401.7 | 1439.4 | 1462.7 |
| 52.5° | 556.3 | 653.3 | 769.9 | 886.6 | 994.2 | 1091.2 | 1172.0 | 1222.2 | 1261.7 | 1288.6 | 1310.1 |
| 55° | 459.4 | 552.8 | 662.3 | 771.7 | 877.6 | 969.1 | 1035.5 | 1073.2 | 1103.7 | 1119.9 | 1132.4 |
| 57.5° | 375.1 | 461.2 | 561.7 | 662.3 | 753.8 | 829.2 | 881.2 | 918.9 | 933.2 | 945.8 | 944.0 |
| 60° | 294.4 | 375.1 | 466.6 | 552.8 | 631.7 | 692.7 | 730.5 | 752.0 | 762.7 | 768.1 | 764.5 |
| 62.5° | 231.5 | 305.1 | 375.1 | 450.5 | 507.9 | 559.9 | 595.9 | 595.9 | 601.2 | 603.0 | 608.4 |
| 65° | 172.3 | 227.9 | 289.0 | 344.6 | 391.2 | 425.3 | 445.1 | 450.5 | 457.7 | 455.9 | 452.3 |
| 67.5° | 127.4 | 168.7 | 213.6 | 254.8 | 287.2 | 308.7 | 323.0 | 335.6 | 333.8 | 330.2 | 328.4 |
| 70° | 88.0 | 114.9 | 154.4 | 179.5 | 202.8 | 224.4 | 227.9 | 229.7 | 231.5 | 233.3 | 229.7 |
| 72.5° | 61.0 | 80.8 | 102.3 | 123.8 | 138.2 | 147.2 | 156.2 | 157.9 | 157.9 | 157.9 | 156.2 |
| 75° | 30.5 | 41.3 | 61.0 | 70.0 | 82.6 | 86.2 | 93.3 | 93.3 | 98.7 | 91.5 | 89.7 |
| 77.5° | 26.9 | 32.3 | 43.1 | 50.2 | 55.6 | 61.0 | 62.8 | 68.2 | 66.4 | 62.8 | 64.6 |
| 80° | 16.2 | 19.8 | 26.9 | 30.5 | 37.7 | 39.5 | 41.3 | 43.1 | 41.3 | 43.1 | 43.1 |
| 82.5° | 12.6 | 14.4 | 18.0 | 18.0 | 23.3 | 23.3 | 25.1 | 25.1 | 26.9 | 26.9 | 26.9 |
| 85° | 7.2 | 12.6 | 10.8 | 21.5 | 14.4 | 14.4 | 18.0 | 21.5 | 18.0 | 18.0 | 21.5 |
| 87.5° | 7.2 | 7.2 | 5.4 | 7.2 | 7.2 | 7.2 | 9.0 | 10.8 | 10.8 | 12.6 | 10.8 |
| 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: P249407

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3343.5 | 3343.5 | 3343.5 | 3343.5 |
| 2.5° | 3348.9 | 3352.5 | 3347.1 | 3345.3 |
| 5° | 3354.3 | 3354.3 | 3350.7 | 3350.7 |
| 7.5° | 3354.3 | 3354.3 | 3348.9 | 3345.3 |
| 10° | 3339.9 | 3339.9 | 3334.6 | 3331.0 |
| 12.5° | 3313.0 | 3313.0 | 3311.2 | 3305.8 |
| 15° | 3278.9 | 3278.9 | 3271.7 | 3266.4 |
| 17.5° | 3232.2 | 3235.8 | 3226.9 | 3226.9 |
| 20° | 3182.0 | 3180.2 | 3173.1 | 3169.5 |
| 22.5° | 3130.0 | 3126.4 | 3124.6 | 3113.8 |
| 25° | 3074.3 | 3070.7 | 3065.3 | 3060.0 |
| 27.5° | 2979.2 | 2977.4 | 2972.0 | 2964.9 |
| 30° | 2833.8 | 2832.0 | 2824.9 | 2824.9 |
| 32.5° | 2645.4 | 2643.6 | 2636.4 | 2638.2 |
| 35° | 2449.8 | 2457.0 | 2453.4 | 2446.2 |
| 37.5° | 2286.4 | 2291.8 | 2295.4 | 2291.8 |
| 40° | 2150.0 | 2166.2 | 2168.0 | 2171.6 |
| 42.5° | 2004.7 | 2026.2 | 2033.4 | 2037.0 |
| 45° | 1830.6 | 1850.3 | 1866.5 | 1862.9 |
| 47.5° | 1652.9 | 1667.3 | 1681.6 | 1670.9 |
| 50° | 1482.4 | 1491.4 | 1496.8 | 1496.8 |
| 52.5° | 1320.9 | 1320.9 | 1319.1 | 1320.9 |
| 55° | 1136.0 | 1136.0 | 1128.9 | 1132.4 |
| 57.5° | 942.2 | 945.8 | 940.4 | 931.4 |
| 60° | 762.7 | 753.8 | 750.2 | 744.8 |
| 62.5° | 594.1 | 594.1 | 581.5 | 597.6 |
| 65° | 445.1 | 439.7 | 434.3 | 432.5 |
| 67.5° | 323.0 | 321.3 | 315.9 | 314.1 |
| 70° | 227.9 | 220.8 | 219.0 | 215.4 |
| 72.5° | 152.6 | 152.6 | 149.0 | 149.0 |
| 75° | 93.3 | 84.4 | 82.6 | 84.4 |
| 77.5° | 64.6 | 62.8 | 62.8 | 61.0 |
| 80° | 43.1 | 41.3 | 44.9 | 39.5 |
| 82.5° | 26.9 | 28.7 | 26.9 | 28.7 |
| 85° | 18.0 | 21.5 | 19.8 | 19.8 |
| 87.5° | 10.8 | 10.8 | 10.8 | 10.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)