

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: P249291

Luminaire Tested: **LD8B80D010 ER8B809730 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249291
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: LD8B80D010 ER8B809730 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6220.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

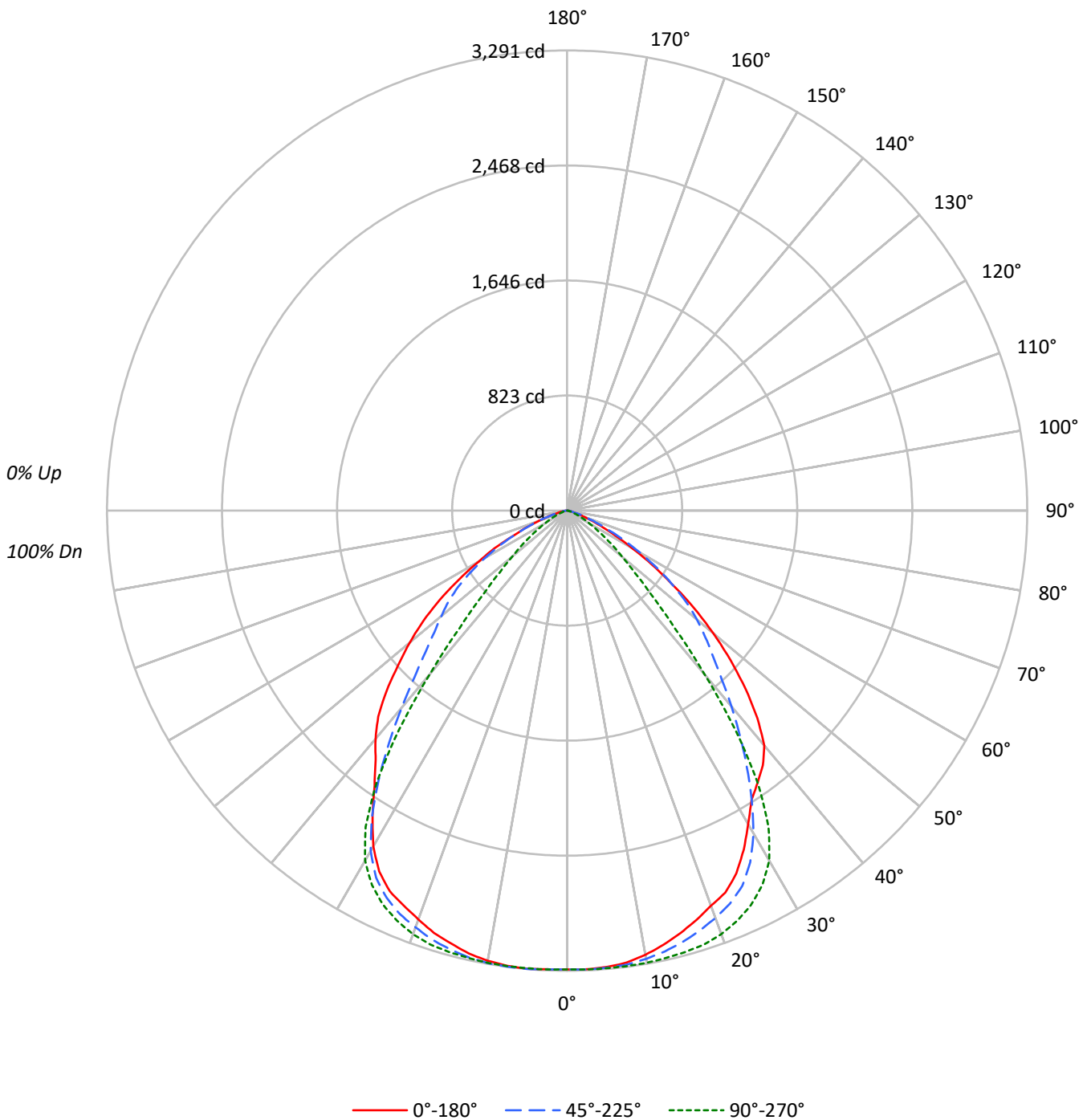
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249291

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBDW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P249291

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 90 |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | | | |
|-----|--|-----|------|
| | 0° | 90° | 180° |
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



TEST NUMBER: P249291

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 313.2 | 5.0 |
| 10°-20° | 909.6 | 14.6 |
| 20°-30° | 1380.6 | 22.2 |
| 30°-40° | 1450.0 | 23.3 |
| 40°-50° | 1087.1 | 17.5 |
| 50°-60° | 697.5 | 11.2 |
| 60°-70° | 298.4 | 4.8 |
| 70°-80° | 70.5 | 1.1 |
| 80°-90° | 13.1 | 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° | 2603.4 | 41.9 |
| 0°-40° | 4053.4 | 65.2 |
| 0°-60° | 5838.0 | 93.9 |
| 0°-90° | 6220.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6220.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3282 | 3282 | 3282 | 3282 | 3282 | |
| 5° | 3276 | 3282 | 3285 | 3291 | 3289 | 311 |
| 15° | 3128 | 3194 | 3268 | 3247 | 3206 | 882 |
| 25° | 2862 | 2963 | 3113 | 3056 | 3004 | 1308 |
| 35° | 2375 | 2242 | 2376 | 2348 | 2401 | 1490 |
| 45° | 1804 | 1474 | 847 | 1432 | 1828 | 1381 |
| 55° | 912 | 912 | 315 | 951 | 1112 | 828 |
| 65° | 275 | 324 | 100 | 418 | 424 | 293 |
| 75° | 42 | 49 | 14 | 85 | 83 | 62 |
| 85° | 14 | 9 | 7 | 14 | 19 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249291

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 |
| 2.5° | 3283.6 | 3287.1 | 3285.3 | 3285.3 | 3283.6 | 3285.3 | 3285.3 | 3288.9 | 3288.9 | 3285.3 | 3283.6 |
| 5° | 3276.5 | 3280.0 | 3280.0 | 3276.5 | 3276.5 | 3285.3 | 3280.0 | 3283.6 | 3283.6 | 3281.8 | 3281.8 |
| 7.5° | 3260.7 | 3260.7 | 3267.7 | 3262.4 | 3262.4 | 3267.7 | 3265.9 | 3269.5 | 3273.0 | 3274.8 | 3274.8 |
| 10° | 3225.4 | 3229.0 | 3230.7 | 3230.7 | 3232.5 | 3237.7 | 3241.3 | 3248.3 | 3251.8 | 3255.4 | 3257.1 |
| 12.5° | 3181.4 | 3186.7 | 3188.4 | 3186.7 | 3192.0 | 3199.0 | 3207.8 | 3216.6 | 3221.9 | 3229.0 | 3234.3 |
| 15° | 3128.5 | 3128.5 | 3132.1 | 3137.4 | 3140.9 | 3151.5 | 3160.2 | 3170.8 | 3184.9 | 3193.7 | 3202.5 |
| 17.5° | 3070.4 | 3074.0 | 3079.2 | 3079.2 | 3086.3 | 3103.9 | 3109.2 | 3125.0 | 3140.9 | 3149.7 | 3167.3 |
| 20° | 3007.0 | 3010.5 | 3015.8 | 3019.3 | 3028.1 | 3042.2 | 3052.8 | 3066.9 | 3084.5 | 3100.4 | 3118.0 |
| 22.5° | 2957.7 | 2950.6 | 2954.1 | 2957.7 | 2966.5 | 2978.8 | 2991.2 | 3008.7 | 3026.4 | 3042.2 | 3059.9 |
| 25° | 2862.5 | 2864.3 | 2869.6 | 2873.1 | 2883.7 | 2894.3 | 2908.4 | 2929.5 | 2945.3 | 2963.0 | 2982.3 |
| 27.5° | 2734.0 | 2735.7 | 2744.5 | 2744.5 | 2753.3 | 2770.9 | 2779.7 | 2797.4 | 2818.5 | 2836.1 | 2859.0 |
| 30° | 2587.8 | 2591.2 | 2591.2 | 2598.3 | 2603.6 | 2612.4 | 2621.2 | 2638.8 | 2649.4 | 2665.3 | 2697.0 |
| 32.5° | 2453.9 | 2457.4 | 2455.6 | 2453.9 | 2448.6 | 2446.8 | 2445.0 | 2448.6 | 2452.1 | 2457.4 | 2469.7 |
| 35° | 2374.6 | 2365.8 | 2358.7 | 2346.4 | 2332.3 | 2314.7 | 2298.8 | 2277.7 | 2258.3 | 2242.5 | 2224.9 |
| 37.5° | 2298.8 | 2297.1 | 2286.5 | 2268.9 | 2240.7 | 2209.0 | 2172.0 | 2126.2 | 2080.4 | 2031.1 | 1983.5 |
| 40° | 2193.2 | 2187.8 | 2179.1 | 2154.4 | 2122.7 | 2083.9 | 2034.6 | 1978.2 | 1904.2 | 1828.5 | 1751.0 |
| 42.5° | 2013.5 | 2015.2 | 2004.7 | 1985.3 | 1955.4 | 1918.3 | 1867.3 | 1805.6 | 1726.3 | 1636.5 | 1536.1 |
| 45° | 1803.8 | 1803.8 | 1800.3 | 1784.5 | 1763.3 | 1733.4 | 1694.6 | 1643.5 | 1566.0 | 1474.4 | 1367.0 |
| 47.5° | 1585.4 | 1587.2 | 1581.9 | 1578.4 | 1569.5 | 1550.2 | 1522.0 | 1483.2 | 1428.6 | 1340.5 | 1233.1 |
| 50° | 1363.5 | 1363.5 | 1372.3 | 1370.5 | 1370.5 | 1363.5 | 1351.1 | 1328.2 | 1280.7 | 1210.2 | 1109.8 |
| 52.5° | 1141.5 | 1145.0 | 1150.3 | 1157.3 | 1166.1 | 1180.2 | 1166.1 | 1155.6 | 1125.6 | 1071.0 | 984.7 |
| 55° | 912.5 | 916.0 | 924.8 | 937.1 | 947.7 | 961.8 | 965.3 | 965.3 | 949.5 | 912.5 | 847.3 |
| 57.5° | 717.0 | 711.7 | 718.7 | 729.3 | 743.4 | 757.5 | 768.0 | 780.4 | 778.6 | 754.0 | 701.1 |
| 60° | 539.0 | 540.8 | 546.1 | 556.7 | 567.2 | 579.6 | 593.7 | 604.2 | 609.5 | 597.2 | 563.7 |
| 62.5° | 392.8 | 392.8 | 399.9 | 410.4 | 415.7 | 433.4 | 442.1 | 447.4 | 452.7 | 450.9 | 429.8 |
| 65° | 274.8 | 278.3 | 281.8 | 287.1 | 292.4 | 303.0 | 308.3 | 318.8 | 322.4 | 324.1 | 308.3 |
| 67.5° | 193.8 | 188.5 | 192.0 | 195.5 | 200.8 | 207.9 | 218.4 | 218.4 | 223.7 | 223.7 | 213.1 |
| 70° | 123.3 | 123.3 | 125.1 | 130.3 | 133.9 | 135.6 | 139.2 | 142.7 | 148.0 | 146.2 | 146.2 |
| 72.5° | 82.8 | 81.0 | 82.8 | 84.6 | 86.3 | 91.6 | 91.6 | 93.4 | 96.9 | 98.7 | 91.6 |
| 75° | 42.3 | 44.1 | 47.5 | 45.8 | 51.1 | 47.5 | 49.3 | 54.6 | 52.8 | 49.3 | 49.3 |
| 77.5° | 35.2 | 35.2 | 35.2 | 33.5 | 37.0 | 37.0 | 35.2 | 38.7 | 37.0 | 37.0 | 35.2 |
| 80° | 24.7 | 26.4 | 24.7 | 22.9 | 24.7 | 22.9 | 22.9 | 22.9 | 22.9 | 22.9 | 21.1 |
| 82.5° | 19.4 | 15.9 | 17.6 | 15.9 | 17.6 | 17.6 | 15.9 | 14.1 | 14.1 | 15.9 | 14.1 |
| 85° | 14.1 | 10.6 | 12.3 | 12.3 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 8.8 | 8.8 |
| 87.5° | 8.8 | 5.3 | 5.3 | 5.3 | 7.0 | 7.0 | 7.0 | 5.3 | 7.0 | 7.0 | 3.5 |
| 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: P249291

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 |
| 2.5° | 3287.1 | 3285.3 | 3288.9 | 3287.1 | 3287.1 | 3285.3 | 3287.1 | 3285.3 | 3288.9 | 3281.8 | 3283.6 |
| 5° | 3287.1 | 3283.6 | 3285.3 | 3287.1 | 3288.9 | 3285.3 | 3285.3 | 3285.3 | 3288.9 | 3285.3 | 3287.1 |
| 7.5° | 3280.0 | 3278.3 | 3283.6 | 3287.1 | 3285.3 | 3283.6 | 3287.1 | 3285.3 | 3288.9 | 3287.1 | 3290.6 |
| 10° | 3265.9 | 3267.7 | 3271.2 | 3276.5 | 3278.3 | 3280.0 | 3283.6 | 3283.6 | 3288.9 | 3281.8 | 3285.3 |
| 12.5° | 3244.8 | 3251.8 | 3260.7 | 3264.2 | 3271.2 | 3271.2 | 3274.8 | 3276.5 | 3280.0 | 3278.3 | 3283.6 |
| 15° | 3218.4 | 3227.2 | 3237.7 | 3246.6 | 3255.4 | 3260.7 | 3265.9 | 3267.7 | 3273.0 | 3267.7 | 3269.5 |
| 17.5° | 3186.7 | 3197.2 | 3213.1 | 3223.6 | 3237.7 | 3243.0 | 3250.1 | 3253.6 | 3258.9 | 3255.4 | 3257.1 |
| 20° | 3142.6 | 3155.0 | 3172.6 | 3188.4 | 3197.2 | 3209.6 | 3218.4 | 3223.6 | 3227.2 | 3223.6 | 3225.4 |
| 22.5° | 3081.0 | 3098.6 | 3121.5 | 3133.8 | 3151.5 | 3162.0 | 3163.8 | 3176.1 | 3184.9 | 3176.1 | 3179.6 |
| 25° | 3008.7 | 3026.4 | 3044.0 | 3070.4 | 3086.3 | 3098.6 | 3110.9 | 3112.7 | 3121.5 | 3119.7 | 3118.0 |
| 27.5° | 2889.0 | 2911.9 | 2941.8 | 2963.0 | 2984.1 | 3003.5 | 3017.6 | 3021.1 | 3029.9 | 3026.4 | 3028.1 |
| 30° | 2725.1 | 2749.8 | 2778.0 | 2811.5 | 2841.4 | 2860.8 | 2878.4 | 2890.7 | 2899.5 | 2894.3 | 2892.5 |
| 32.5° | 2492.6 | 2517.3 | 2547.2 | 2580.7 | 2615.9 | 2644.1 | 2665.3 | 2681.1 | 2691.7 | 2688.1 | 2679.3 |
| 35° | 2226.6 | 2233.7 | 2253.1 | 2279.5 | 2309.4 | 2339.4 | 2358.7 | 2376.3 | 2388.7 | 2392.2 | 2392.2 |
| 37.5° | 1953.6 | 1930.7 | 1916.6 | 1916.6 | 1934.2 | 1946.5 | 1964.1 | 1974.7 | 1994.1 | 2001.1 | 2006.4 |
| 40° | 1689.3 | 1636.5 | 1587.2 | 1550.2 | 1525.5 | 1523.8 | 1523.8 | 1529.0 | 1546.7 | 1569.5 | 1590.7 |
| 42.5° | 1453.3 | 1368.7 | 1293.0 | 1224.3 | 1175.0 | 1146.8 | 1134.5 | 1136.2 | 1150.3 | 1171.4 | 1206.7 |
| 45° | 1264.8 | 1159.1 | 1064.0 | 981.2 | 914.3 | 870.2 | 849.1 | 847.3 | 857.9 | 882.5 | 921.3 |
| 47.5° | 1118.6 | 1005.8 | 898.4 | 803.3 | 731.1 | 683.5 | 658.8 | 651.8 | 658.8 | 681.7 | 727.5 |
| 50° | 997.1 | 880.8 | 769.8 | 671.2 | 593.7 | 544.3 | 521.4 | 512.6 | 521.4 | 540.8 | 586.6 |
| 52.5° | 884.3 | 764.5 | 660.6 | 565.5 | 482.7 | 440.4 | 415.7 | 410.4 | 415.7 | 438.6 | 475.6 |
| 55° | 754.0 | 651.8 | 549.6 | 454.5 | 382.3 | 340.0 | 320.6 | 315.3 | 320.6 | 341.8 | 380.5 |
| 57.5° | 625.4 | 537.3 | 447.4 | 361.1 | 299.5 | 262.5 | 244.9 | 237.8 | 250.1 | 264.2 | 310.0 |
| 60° | 505.6 | 435.1 | 359.3 | 283.6 | 232.5 | 199.0 | 185.0 | 183.2 | 186.7 | 204.3 | 236.0 |
| 62.5° | 396.4 | 338.2 | 278.3 | 216.7 | 174.4 | 160.3 | 142.7 | 140.9 | 144.4 | 155.0 | 179.7 |
| 65° | 285.4 | 248.4 | 202.6 | 158.5 | 125.1 | 105.7 | 98.7 | 100.4 | 103.9 | 111.0 | 133.9 |
| 67.5° | 199.0 | 172.6 | 140.9 | 111.0 | 86.3 | 77.5 | 70.5 | 68.7 | 70.5 | 82.8 | 95.1 |
| 70° | 133.9 | 118.0 | 95.1 | 84.6 | 59.9 | 47.5 | 49.3 | 44.1 | 51.1 | 51.1 | 61.6 |
| 72.5° | 88.1 | 77.5 | 63.4 | 49.3 | 42.3 | 33.5 | 33.5 | 31.7 | 35.2 | 37.0 | 45.8 |
| 75° | 45.8 | 35.2 | 35.2 | 24.7 | 17.6 | 8.8 | 15.9 | 14.1 | 12.3 | 14.1 | 17.6 |
| 77.5° | 31.7 | 26.4 | 24.7 | 19.4 | 17.6 | 14.1 | 14.1 | 14.1 | 14.1 | 15.9 | 17.6 |
| 80° | 19.4 | 19.4 | 14.1 | 12.3 | 10.6 | 8.8 | 10.6 | 10.6 | 10.6 | 10.6 | 12.3 |
| 82.5° | 12.3 | 10.6 | 10.6 | 8.8 | 8.8 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 10.6 |
| 85° | 10.6 | 7.0 | 7.0 | 5.3 | 7.0 | 12.3 | 5.3 | 7.0 | 7.0 | 7.0 | 5.3 |
| 87.5° | 3.5 | 5.3 | 5.3 | 5.3 | 3.5 | 1.8 | 3.5 | 5.3 | 5.3 | 8.8 | 7.0 |
| 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: P249291

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 | 3281.8 |
| 2.5° | 3287.1 | 3288.9 | 3288.9 | 3287.1 | 3287.1 | 3283.6 | 3290.6 | 3285.3 | 3287.1 | 3294.1 | 3288.9 |
| 5° | 3290.6 | 3292.4 | 3292.4 | 3290.6 | 3290.6 | 3290.6 | 3292.4 | 3292.4 | 3290.6 | 3288.9 | 3292.4 |
| 7.5° | 3297.7 | 3295.9 | 3295.9 | 3292.4 | 3292.4 | 3288.9 | 3292.4 | 3287.1 | 3290.6 | 3287.1 | 3292.4 |
| 10° | 3288.9 | 3290.6 | 3288.9 | 3287.1 | 3287.1 | 3285.3 | 3285.3 | 3280.0 | 3281.8 | 3276.5 | 3280.0 |
| 12.5° | 3283.6 | 3281.8 | 3281.8 | 3278.3 | 3274.8 | 3271.2 | 3269.5 | 3264.2 | 3264.2 | 3251.8 | 3257.1 |
| 15° | 3269.5 | 3271.2 | 3265.9 | 3258.9 | 3255.4 | 3246.6 | 3243.0 | 3236.0 | 3229.0 | 3220.2 | 3221.9 |
| 17.5° | 3257.1 | 3251.8 | 3244.8 | 3237.7 | 3223.6 | 3216.6 | 3209.6 | 3199.0 | 3195.5 | 3184.9 | 3181.4 |
| 20° | 3220.2 | 3216.6 | 3207.8 | 3195.5 | 3186.7 | 3170.8 | 3163.8 | 3153.2 | 3144.4 | 3133.8 | 3128.5 |
| 22.5° | 3172.6 | 3169.0 | 3158.5 | 3146.2 | 3132.1 | 3125.0 | 3118.0 | 3098.6 | 3089.8 | 3079.2 | 3077.4 |
| 25° | 3112.7 | 3107.4 | 3096.8 | 3082.7 | 3075.7 | 3056.3 | 3049.3 | 3035.2 | 3031.7 | 3021.1 | 3019.3 |
| 27.5° | 3021.1 | 3014.0 | 3001.7 | 2984.1 | 2971.8 | 2959.4 | 2952.4 | 2941.8 | 2938.3 | 2927.7 | 2926.0 |
| 30° | 2883.7 | 2874.9 | 2850.2 | 2843.2 | 2822.0 | 2809.7 | 2809.7 | 2795.6 | 2797.4 | 2790.3 | 2790.3 |
| 32.5° | 2667.0 | 2652.9 | 2633.5 | 2619.4 | 2605.3 | 2598.3 | 2598.3 | 2593.0 | 2596.5 | 2596.5 | 2600.1 |
| 35° | 2379.9 | 2360.5 | 2349.9 | 2341.1 | 2341.1 | 2348.1 | 2369.3 | 2374.6 | 2385.2 | 2394.0 | 2401.0 |
| 37.5° | 2011.7 | 2010.0 | 2022.3 | 2032.9 | 2059.3 | 2089.2 | 2126.2 | 2157.9 | 2187.8 | 2209.0 | 2230.1 |
| 40° | 1613.6 | 1657.6 | 1692.9 | 1742.2 | 1782.7 | 1840.8 | 1907.8 | 1962.4 | 2013.5 | 2050.5 | 2089.2 |
| 42.5° | 1259.5 | 1315.9 | 1389.9 | 1462.1 | 1534.3 | 1613.6 | 1701.7 | 1777.4 | 1844.4 | 1895.4 | 1936.0 |
| 45° | 981.2 | 1058.7 | 1148.6 | 1240.1 | 1333.5 | 1432.2 | 1523.8 | 1601.3 | 1671.7 | 1724.6 | 1765.1 |
| 47.5° | 790.9 | 875.5 | 977.7 | 1078.1 | 1183.8 | 1287.7 | 1389.9 | 1456.8 | 1514.9 | 1557.2 | 1594.2 |
| 50° | 653.5 | 743.4 | 850.8 | 965.3 | 1071.0 | 1175.0 | 1263.0 | 1328.2 | 1375.8 | 1412.8 | 1435.7 |
| 52.5° | 546.1 | 641.2 | 755.7 | 870.2 | 975.9 | 1071.0 | 1150.3 | 1199.6 | 1238.4 | 1264.8 | 1285.9 |
| 55° | 450.9 | 542.6 | 650.0 | 757.5 | 861.4 | 951.2 | 1016.4 | 1053.4 | 1083.3 | 1099.2 | 1111.5 |
| 57.5° | 368.2 | 452.7 | 551.4 | 650.0 | 739.9 | 813.9 | 864.9 | 901.9 | 916.0 | 928.3 | 926.6 |
| 60° | 288.9 | 368.2 | 458.0 | 542.6 | 620.1 | 679.9 | 717.0 | 738.1 | 748.7 | 754.0 | 750.4 |
| 62.5° | 227.2 | 299.5 | 368.2 | 442.1 | 498.5 | 549.6 | 584.9 | 584.9 | 590.1 | 591.9 | 597.2 |
| 65° | 169.1 | 223.7 | 283.6 | 338.2 | 384.0 | 417.5 | 436.9 | 442.1 | 449.2 | 447.4 | 443.9 |
| 67.5° | 125.1 | 165.6 | 209.6 | 250.1 | 281.8 | 303.0 | 317.1 | 329.4 | 327.7 | 324.1 | 322.4 |
| 70° | 86.3 | 112.8 | 151.5 | 176.2 | 199.0 | 220.2 | 223.7 | 225.5 | 227.2 | 229.0 | 225.5 |
| 72.5° | 59.9 | 79.3 | 100.4 | 121.5 | 135.6 | 144.4 | 153.3 | 155.0 | 155.0 | 155.0 | 153.3 |
| 75° | 30.0 | 40.5 | 59.9 | 68.7 | 81.0 | 84.6 | 91.6 | 91.6 | 96.9 | 89.8 | 88.1 |
| 77.5° | 26.4 | 31.7 | 42.3 | 49.3 | 54.6 | 59.9 | 61.6 | 66.9 | 65.2 | 61.6 | 63.4 |
| 80° | 15.9 | 19.4 | 26.4 | 30.0 | 37.0 | 38.7 | 40.5 | 42.3 | 40.5 | 42.3 | 42.3 |
| 82.5° | 12.3 | 14.1 | 17.6 | 17.6 | 22.9 | 22.9 | 24.7 | 24.7 | 26.4 | 26.4 | 26.4 |
| 85° | 7.0 | 12.3 | 10.6 | 21.1 | 14.1 | 14.1 | 17.6 | 21.1 | 17.6 | 17.6 | 21.1 |
| 87.5° | 7.0 | 7.0 | 5.3 | 7.0 | 7.0 | 7.0 | 8.8 | 10.6 | 10.6 | 12.3 | 10.6 |
| 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: P249291

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3281.8 | 3281.8 | 3281.8 | 3281.8 |
| 2.5° | 3287.1 | 3290.6 | 3285.3 | 3283.6 |
| 5° | 3292.4 | 3292.4 | 3288.9 | 3288.9 |
| 7.5° | 3292.4 | 3292.4 | 3287.1 | 3283.6 |
| 10° | 3278.3 | 3278.3 | 3273.0 | 3269.5 |
| 12.5° | 3251.8 | 3251.8 | 3250.1 | 3244.8 |
| 15° | 3218.4 | 3218.4 | 3211.3 | 3206.1 |
| 17.5° | 3172.6 | 3176.1 | 3167.3 | 3167.3 |
| 20° | 3123.3 | 3121.5 | 3114.5 | 3110.9 |
| 22.5° | 3072.2 | 3068.7 | 3066.9 | 3056.3 |
| 25° | 3017.6 | 3014.0 | 3008.7 | 3003.5 |
| 27.5° | 2924.2 | 2922.4 | 2917.1 | 2910.1 |
| 30° | 2781.5 | 2779.7 | 2772.7 | 2772.7 |
| 32.5° | 2596.5 | 2594.8 | 2587.8 | 2589.5 |
| 35° | 2404.5 | 2411.6 | 2408.1 | 2401.0 |
| 37.5° | 2244.2 | 2249.5 | 2253.1 | 2249.5 |
| 40° | 2110.4 | 2126.2 | 2128.0 | 2131.5 |
| 42.5° | 1967.7 | 1988.8 | 1995.9 | 1999.4 |
| 45° | 1796.8 | 1816.2 | 1832.0 | 1828.5 |
| 47.5° | 1622.4 | 1636.5 | 1650.6 | 1640.0 |
| 50° | 1455.1 | 1463.9 | 1469.2 | 1469.2 |
| 52.5° | 1296.5 | 1296.5 | 1294.8 | 1296.5 |
| 55° | 1115.1 | 1115.1 | 1108.0 | 1111.5 |
| 57.5° | 924.8 | 928.3 | 923.0 | 914.3 |
| 60° | 748.7 | 739.9 | 736.3 | 731.1 |
| 62.5° | 583.1 | 583.1 | 570.8 | 586.6 |
| 65° | 436.9 | 431.6 | 426.3 | 424.5 |
| 67.5° | 317.1 | 315.3 | 310.0 | 308.3 |
| 70° | 223.7 | 216.7 | 214.9 | 211.4 |
| 72.5° | 149.7 | 149.7 | 146.2 | 146.2 |
| 75° | 91.6 | 82.8 | 81.0 | 82.8 |
| 77.5° | 63.4 | 61.6 | 61.6 | 59.9 |
| 80° | 42.3 | 40.5 | 44.1 | 38.7 |
| 82.5° | 26.4 | 28.2 | 26.4 | 28.2 |
| 85° | 17.6 | 21.1 | 19.4 | 19.4 |
| 87.5° | 10.6 | 10.6 | 10.6 | 10.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)