

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: P249109

Luminaire Tested: **LSR8B60D010 EC8B60840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249109
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: LSR8B60D010 EC8B60840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6282.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

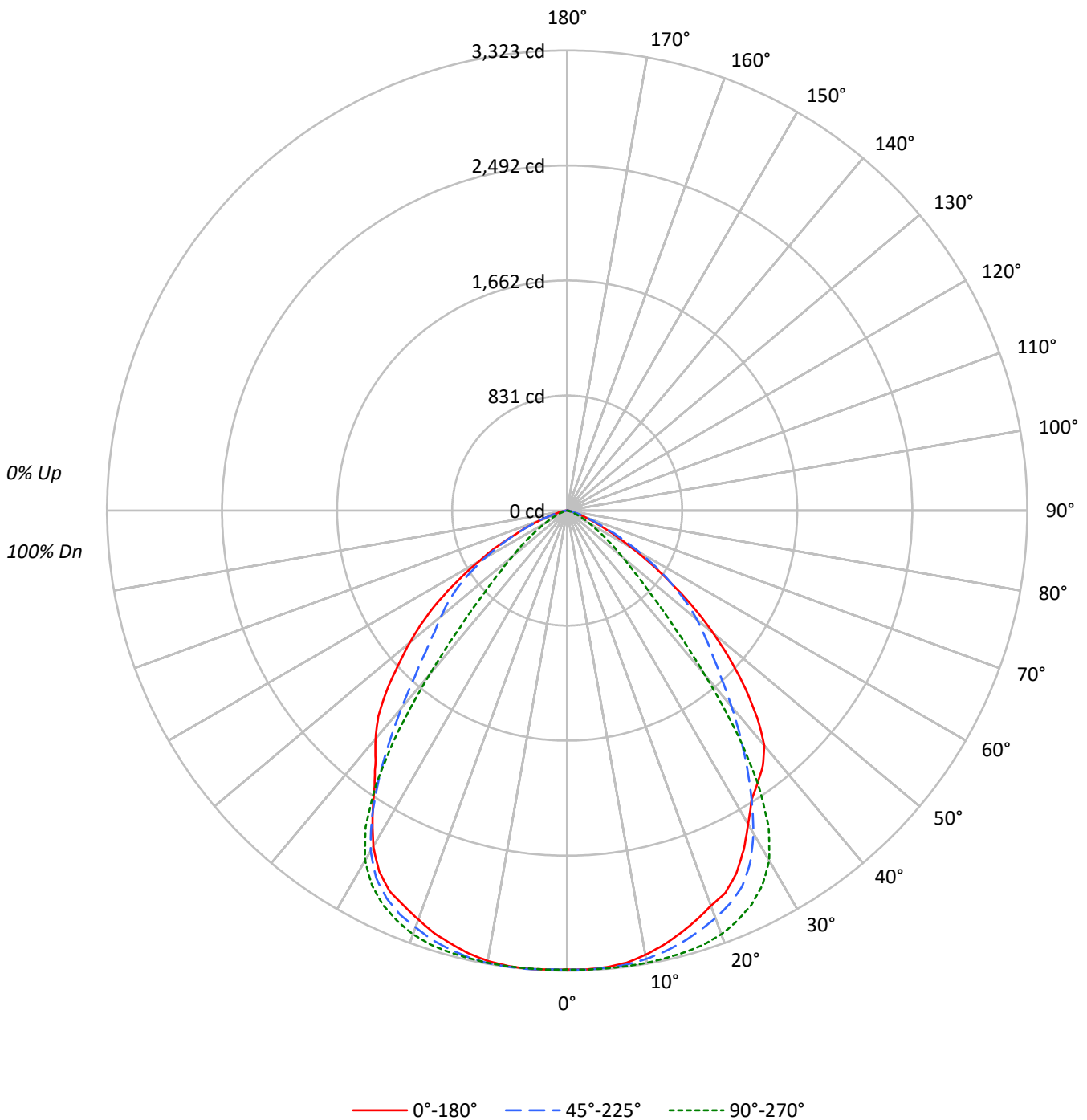
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249109

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P249109

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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 | 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° | 102207 | 102207 | 102207 |
| 5° | 102433 | 102709 | 102817 |
| 10° | 102002 | 103840 | 103395 |
| 15° | 100871 | 105359 | 103370 |
| 20° | 99660 | 106840 | 103102 |
| 25° | 98367 | 106962 | 103209 |
| 30° | 93058 | 103954 | 99709 |
| 35° | 90282 | 90346 | 91287 |
| 40° | 89162 | 62164 | 86659 |
| 45° | 79447 | 37321 | 80533 |
| 50° | 66063 | 24836 | 71182 |
| 55° | 49547 | 17123 | 60353 |
| 60° | 33575 | 11409 | 45539 |
| 65° | 20255 | 7399 | 31287 |
| 70° | 11225 | 4012 | 19249 |
| 75° | 5087 | 1692 | 9960 |
| 80° | 4422 | 1900 | 6943 |
| 85° | 5024 | 2512 | 6935 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 316.3 | 5.0 |
| 10°-20° | 918.6 | 14.6 |
| 20°-30° | 1394.3 | 22.2 |
| 30°-40° | 1464.5 | 23.3 |
| 40°-50° | 1098.0 | 17.5 |
| 50°-60° | 704.5 | 11.2 |
| 60°-70° | 301.4 | 4.8 |
| 70°-80° | 71.2 | 1.1 |
| 80°-90° | 13.3 | 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° | 2629.3 | 41.9 |
| 0°-40° | 4093.8 | 65.2 |
| 0°-60° | 5896.2 | 93.9 |
| 0°-90° | 6282.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6282.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3314 | 3314 | 3314 | 3314 | 3314 | |
| 5° | 3309 | 3314 | 3318 | 3323 | 3322 | 314 |
| 15° | 3160 | 3226 | 3300 | 3279 | 3238 | 891 |
| 25° | 2891 | 2992 | 3144 | 3087 | 3033 | 1321 |
| 35° | 2398 | 2265 | 2400 | 2372 | 2425 | 1505 |
| 45° | 1822 | 1489 | 856 | 1446 | 1847 | 1395 |
| 55° | 922 | 922 | 318 | 961 | 1123 | 836 |
| 65° | 278 | 327 | 101 | 422 | 429 | 296 |
| 75° | 43 | 50 | 14 | 85 | 84 | 62 |
| 85° | 14 | 9 | 7 | 14 | 20 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249109

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 |
| 2.5° | 3316.3 | 3319.9 | 3318.1 | 3318.1 | 3316.3 | 3318.1 | 3318.1 | 3321.6 | 3321.6 | 3318.1 | 3316.3 |
| 5° | 3309.2 | 3312.7 | 3312.7 | 3309.2 | 3309.2 | 3318.1 | 3312.7 | 3316.3 | 3316.3 | 3314.5 | 3314.5 |
| 7.5° | 3293.2 | 3293.2 | 3300.3 | 3295.0 | 3295.0 | 3300.3 | 3298.5 | 3302.1 | 3305.6 | 3307.4 | 3307.4 |
| 10° | 3257.6 | 3261.1 | 3262.9 | 3262.9 | 3264.7 | 3270.0 | 3273.6 | 3280.7 | 3284.3 | 3287.8 | 3289.6 |
| 12.5° | 3213.1 | 3218.4 | 3220.2 | 3218.4 | 3223.8 | 3230.9 | 3239.8 | 3248.7 | 3254.0 | 3261.1 | 3266.5 |
| 15° | 3159.7 | 3159.7 | 3163.3 | 3168.6 | 3172.2 | 3182.9 | 3191.7 | 3202.4 | 3216.6 | 3225.6 | 3234.5 |
| 17.5° | 3101.0 | 3104.6 | 3109.9 | 3109.9 | 3117.0 | 3134.8 | 3140.2 | 3156.2 | 3172.2 | 3181.1 | 3198.9 |
| 20° | 3037.0 | 3040.5 | 3045.9 | 3049.4 | 3058.3 | 3072.6 | 3083.2 | 3097.5 | 3115.3 | 3131.3 | 3149.0 |
| 22.5° | 2987.1 | 2980.0 | 2983.6 | 2987.1 | 2996.1 | 3008.5 | 3021.0 | 3038.7 | 3056.5 | 3072.6 | 3090.4 |
| 25° | 2891.1 | 2892.9 | 2898.2 | 2901.7 | 2912.4 | 2923.1 | 2937.3 | 2958.7 | 2974.7 | 2992.5 | 3012.0 |
| 27.5° | 2761.2 | 2763.0 | 2771.9 | 2771.9 | 2780.8 | 2798.6 | 2807.4 | 2825.2 | 2846.6 | 2864.4 | 2887.5 |
| 30° | 2613.5 | 2617.1 | 2617.1 | 2624.2 | 2629.5 | 2638.4 | 2647.3 | 2665.1 | 2675.8 | 2691.8 | 2723.9 |
| 32.5° | 2478.3 | 2481.9 | 2480.1 | 2478.3 | 2473.0 | 2471.2 | 2469.4 | 2473.0 | 2476.6 | 2481.9 | 2494.3 |
| 35° | 2398.3 | 2389.4 | 2382.3 | 2369.8 | 2355.6 | 2337.8 | 2321.8 | 2300.4 | 2280.8 | 2264.8 | 2247.1 |
| 37.5° | 2321.8 | 2320.0 | 2309.3 | 2291.5 | 2263.0 | 2231.0 | 2193.7 | 2147.4 | 2101.1 | 2051.3 | 2003.3 |
| 40° | 2215.0 | 2209.7 | 2200.8 | 2175.9 | 2143.8 | 2104.7 | 2054.9 | 1998.0 | 1923.2 | 1846.7 | 1768.5 |
| 42.5° | 2033.5 | 2035.3 | 2024.6 | 2005.1 | 1974.8 | 1937.4 | 1885.9 | 1823.6 | 1743.6 | 1652.8 | 1551.4 |
| 45° | 1821.8 | 1821.8 | 1818.3 | 1802.2 | 1780.9 | 1750.7 | 1711.5 | 1659.9 | 1581.7 | 1489.1 | 1380.6 |
| 47.5° | 1601.2 | 1603.0 | 1597.6 | 1594.1 | 1585.2 | 1565.6 | 1537.2 | 1498.0 | 1442.9 | 1353.9 | 1245.4 |
| 50° | 1377.1 | 1377.1 | 1385.9 | 1384.2 | 1384.2 | 1377.1 | 1364.6 | 1341.4 | 1293.4 | 1222.3 | 1120.9 |
| 52.5° | 1152.9 | 1156.4 | 1161.8 | 1168.9 | 1177.8 | 1192.0 | 1177.8 | 1167.1 | 1136.8 | 1081.7 | 994.5 |
| 55° | 921.6 | 925.1 | 934.0 | 946.5 | 957.2 | 971.4 | 975.0 | 975.0 | 958.9 | 921.6 | 855.8 |
| 57.5° | 724.1 | 718.8 | 725.9 | 736.6 | 750.8 | 765.0 | 775.7 | 788.2 | 786.4 | 761.5 | 708.1 |
| 60° | 544.4 | 546.2 | 551.5 | 562.2 | 572.9 | 585.3 | 599.6 | 610.2 | 615.6 | 603.1 | 569.3 |
| 62.5° | 396.8 | 396.8 | 403.8 | 414.5 | 419.9 | 437.7 | 446.6 | 451.9 | 457.2 | 455.4 | 434.1 |
| 65° | 277.6 | 281.1 | 284.7 | 290.0 | 295.3 | 306.0 | 311.3 | 322.0 | 325.6 | 327.4 | 311.3 |
| 67.5° | 195.7 | 190.4 | 193.9 | 197.5 | 202.8 | 210.0 | 220.6 | 220.6 | 225.9 | 225.9 | 215.3 |
| 70° | 124.5 | 124.5 | 126.3 | 131.6 | 135.2 | 137.0 | 140.6 | 144.1 | 149.4 | 147.7 | 147.7 |
| 72.5° | 83.6 | 81.8 | 83.6 | 85.4 | 87.2 | 92.5 | 92.5 | 94.3 | 97.9 | 99.6 | 92.5 |
| 75° | 42.7 | 44.5 | 48.0 | 46.3 | 51.6 | 48.0 | 49.8 | 55.2 | 53.4 | 49.8 | 49.8 |
| 77.5° | 35.6 | 35.6 | 35.6 | 33.8 | 37.4 | 37.4 | 35.6 | 39.1 | 37.4 | 37.4 | 35.6 |
| 80° | 24.9 | 26.7 | 24.9 | 23.1 | 24.9 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 21.3 |
| 82.5° | 19.6 | 16.0 | 17.8 | 16.0 | 17.8 | 17.8 | 16.0 | 14.2 | 14.2 | 16.0 | 14.2 |
| 85° | 14.2 | 10.7 | 12.5 | 12.5 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 8.9 | 8.9 |
| 87.5° | 8.9 | 5.4 | 5.4 | 5.4 | 7.1 | 7.1 | 7.1 | 5.4 | 7.1 | 7.1 | 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: P249109

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 |
| 2.5° | 3319.9 | 3318.1 | 3321.6 | 3319.9 | 3319.9 | 3318.1 | 3319.9 | 3318.1 | 3321.6 | 3314.5 | 3316.3 |
| 5° | 3319.9 | 3316.3 | 3318.1 | 3319.9 | 3321.6 | 3318.1 | 3318.1 | 3318.1 | 3321.6 | 3318.1 | 3319.9 |
| 7.5° | 3312.7 | 3310.9 | 3316.3 | 3319.9 | 3318.1 | 3316.3 | 3319.9 | 3318.1 | 3321.6 | 3319.9 | 3323.4 |
| 10° | 3298.5 | 3300.3 | 3303.8 | 3309.2 | 3310.9 | 3312.7 | 3316.3 | 3316.3 | 3321.6 | 3314.5 | 3318.1 |
| 12.5° | 3277.2 | 3284.3 | 3293.2 | 3296.7 | 3303.8 | 3303.8 | 3307.4 | 3309.2 | 3312.7 | 3310.9 | 3316.3 |
| 15° | 3250.5 | 3259.4 | 3270.0 | 3278.9 | 3287.8 | 3293.2 | 3298.5 | 3300.3 | 3305.6 | 3300.3 | 3302.1 |
| 17.5° | 3218.4 | 3229.1 | 3245.1 | 3255.8 | 3270.0 | 3275.4 | 3282.5 | 3286.0 | 3291.4 | 3287.8 | 3289.6 |
| 20° | 3173.9 | 3186.4 | 3204.2 | 3220.2 | 3229.1 | 3241.5 | 3250.5 | 3255.8 | 3259.4 | 3255.8 | 3257.6 |
| 22.5° | 3111.7 | 3129.5 | 3152.6 | 3165.1 | 3182.9 | 3193.5 | 3195.3 | 3207.8 | 3216.6 | 3207.8 | 3211.3 |
| 25° | 3038.7 | 3056.5 | 3074.3 | 3101.0 | 3117.0 | 3129.5 | 3141.9 | 3143.7 | 3152.6 | 3150.8 | 3149.0 |
| 27.5° | 2917.8 | 2940.9 | 2971.1 | 2992.5 | 3013.8 | 3033.4 | 3047.7 | 3051.2 | 3060.1 | 3056.5 | 3058.3 |
| 30° | 2752.3 | 2777.2 | 2805.7 | 2839.5 | 2869.7 | 2889.3 | 2907.1 | 2919.5 | 2928.4 | 2923.1 | 2921.3 |
| 32.5° | 2517.5 | 2542.4 | 2572.6 | 2606.4 | 2642.0 | 2670.4 | 2691.8 | 2707.8 | 2718.5 | 2714.9 | 2706.1 |
| 35° | 2248.8 | 2255.9 | 2275.5 | 2302.2 | 2332.4 | 2362.7 | 2382.3 | 2400.0 | 2412.5 | 2416.0 | 2416.0 |
| 37.5° | 1973.1 | 1949.9 | 1935.7 | 1935.7 | 1953.5 | 1965.9 | 1983.7 | 1994.4 | 2014.0 | 2021.1 | 2026.4 |
| 40° | 1706.2 | 1652.8 | 1603.0 | 1565.6 | 1540.7 | 1539.0 | 1539.0 | 1544.3 | 1562.1 | 1585.2 | 1606.6 |
| 42.5° | 1467.8 | 1382.4 | 1305.9 | 1236.5 | 1186.7 | 1158.2 | 1145.8 | 1147.6 | 1161.8 | 1183.1 | 1218.7 |
| 45° | 1277.4 | 1170.7 | 1074.6 | 991.0 | 923.4 | 878.9 | 857.5 | 855.8 | 866.4 | 891.3 | 930.5 |
| 47.5° | 1129.8 | 1015.9 | 907.3 | 811.3 | 738.4 | 690.3 | 665.4 | 658.3 | 665.4 | 688.5 | 734.8 |
| 50° | 1007.0 | 889.6 | 777.5 | 677.8 | 599.6 | 549.8 | 526.6 | 517.7 | 526.6 | 546.2 | 592.4 |
| 52.5° | 893.1 | 772.1 | 667.2 | 571.1 | 487.5 | 444.8 | 419.9 | 414.5 | 419.9 | 443.0 | 480.4 |
| 55° | 761.5 | 658.3 | 555.1 | 459.0 | 386.1 | 343.4 | 323.8 | 318.5 | 323.8 | 345.2 | 384.3 |
| 57.5° | 631.6 | 542.6 | 451.9 | 364.7 | 302.5 | 265.1 | 247.3 | 240.2 | 252.6 | 266.9 | 313.1 |
| 60° | 510.6 | 439.5 | 362.9 | 286.4 | 234.9 | 201.0 | 186.8 | 185.0 | 188.6 | 206.4 | 238.4 |
| 62.5° | 400.3 | 341.6 | 281.1 | 218.8 | 176.1 | 161.9 | 144.1 | 142.3 | 145.9 | 156.5 | 181.5 |
| 65° | 288.2 | 250.9 | 204.6 | 160.1 | 126.3 | 106.7 | 99.6 | 101.4 | 105.0 | 112.1 | 135.2 |
| 67.5° | 201.0 | 174.3 | 142.3 | 112.1 | 87.2 | 78.3 | 71.2 | 69.4 | 71.2 | 83.6 | 96.1 |
| 70° | 135.2 | 119.2 | 96.1 | 85.4 | 60.5 | 48.0 | 49.8 | 44.5 | 51.6 | 51.6 | 62.3 |
| 72.5° | 88.9 | 78.3 | 64.0 | 49.8 | 42.7 | 33.8 | 33.8 | 32.0 | 35.6 | 37.4 | 46.3 |
| 75° | 46.3 | 35.6 | 35.6 | 24.9 | 17.8 | 8.9 | 16.0 | 14.2 | 12.5 | 14.2 | 17.8 |
| 77.5° | 32.0 | 26.7 | 24.9 | 19.6 | 17.8 | 14.2 | 14.2 | 14.2 | 14.2 | 16.0 | 17.8 |
| 80° | 19.6 | 19.6 | 14.2 | 12.5 | 10.7 | 8.9 | 10.7 | 10.7 | 10.7 | 10.7 | 12.5 |
| 82.5° | 12.5 | 10.7 | 10.7 | 8.9 | 8.9 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 10.7 |
| 85° | 10.7 | 7.1 | 7.1 | 5.4 | 7.1 | 12.5 | 5.4 | 7.1 | 7.1 | 7.1 | 5.4 |
| 87.5° | 3.6 | 5.4 | 5.4 | 5.4 | 3.6 | 1.8 | 3.6 | 5.4 | 5.4 | 8.9 | 7.1 |
| 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: P249109

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 | 3314.5 |
| 2.5° | 3319.9 | 3321.6 | 3321.6 | 3319.9 | 3319.9 | 3316.3 | 3323.4 | 3318.1 | 3319.9 | 3327.0 | 3321.6 |
| 5° | 3323.4 | 3325.2 | 3325.2 | 3323.4 | 3323.4 | 3323.4 | 3325.2 | 3325.2 | 3323.4 | 3321.6 | 3325.2 |
| 7.5° | 3330.5 | 3328.7 | 3328.7 | 3325.2 | 3325.2 | 3321.6 | 3325.2 | 3319.9 | 3323.4 | 3319.9 | 3325.2 |
| 10° | 3321.6 | 3323.4 | 3321.6 | 3319.9 | 3319.9 | 3318.1 | 3318.1 | 3312.7 | 3314.5 | 3309.2 | 3312.7 |
| 12.5° | 3316.3 | 3314.5 | 3314.5 | 3310.9 | 3307.4 | 3303.8 | 3302.1 | 3296.7 | 3296.7 | 3284.3 | 3289.6 |
| 15° | 3302.1 | 3303.8 | 3298.5 | 3291.4 | 3287.8 | 3278.9 | 3275.4 | 3268.2 | 3261.1 | 3252.3 | 3254.0 |
| 17.5° | 3289.6 | 3284.3 | 3277.2 | 3270.0 | 3255.8 | 3248.7 | 3241.5 | 3230.9 | 3227.3 | 3216.6 | 3213.1 |
| 20° | 3252.3 | 3248.7 | 3239.8 | 3227.3 | 3218.4 | 3202.4 | 3195.3 | 3184.6 | 3175.7 | 3165.1 | 3159.7 |
| 22.5° | 3204.2 | 3200.6 | 3190.0 | 3177.5 | 3163.3 | 3156.2 | 3149.0 | 3129.5 | 3120.6 | 3109.9 | 3108.1 |
| 25° | 3143.7 | 3138.4 | 3127.7 | 3113.5 | 3106.3 | 3086.8 | 3079.7 | 3065.4 | 3061.9 | 3051.2 | 3049.4 |
| 27.5° | 3051.2 | 3044.1 | 3031.6 | 3013.8 | 3001.4 | 2988.9 | 2981.8 | 2971.1 | 2967.6 | 2956.9 | 2955.1 |
| 30° | 2912.4 | 2903.5 | 2878.6 | 2871.5 | 2850.1 | 2837.7 | 2837.7 | 2823.5 | 2825.2 | 2818.2 | 2818.2 |
| 32.5° | 2693.6 | 2679.4 | 2659.8 | 2645.5 | 2631.3 | 2624.2 | 2624.2 | 2618.9 | 2622.4 | 2622.4 | 2626.0 |
| 35° | 2403.6 | 2384.0 | 2373.3 | 2364.5 | 2364.5 | 2371.6 | 2392.9 | 2398.3 | 2408.9 | 2417.8 | 2425.0 |
| 37.5° | 2031.7 | 2030.0 | 2042.4 | 2053.1 | 2079.8 | 2110.1 | 2147.4 | 2179.4 | 2209.7 | 2231.0 | 2252.4 |
| 40° | 1629.7 | 1674.2 | 1709.7 | 1759.6 | 1800.5 | 1859.2 | 1926.8 | 1981.9 | 2033.5 | 2070.9 | 2110.1 |
| 42.5° | 1272.1 | 1329.0 | 1403.7 | 1476.7 | 1549.6 | 1629.7 | 1718.7 | 1795.1 | 1862.7 | 1914.3 | 1955.3 |
| 45° | 991.0 | 1069.2 | 1160.0 | 1252.5 | 1346.8 | 1446.4 | 1539.0 | 1617.2 | 1688.4 | 1741.8 | 1782.7 |
| 47.5° | 798.8 | 884.2 | 987.4 | 1088.8 | 1195.6 | 1300.5 | 1403.7 | 1471.3 | 1530.0 | 1572.7 | 1610.1 |
| 50° | 660.0 | 750.8 | 859.3 | 975.0 | 1081.7 | 1186.7 | 1275.6 | 1341.4 | 1389.5 | 1426.9 | 1450.0 |
| 52.5° | 551.5 | 647.6 | 763.3 | 878.9 | 985.6 | 1081.7 | 1161.8 | 1211.6 | 1250.7 | 1277.4 | 1298.7 |
| 55° | 455.4 | 548.0 | 656.5 | 765.0 | 870.0 | 960.7 | 1026.5 | 1063.9 | 1094.1 | 1110.2 | 1122.6 |
| 57.5° | 371.9 | 457.2 | 556.9 | 656.5 | 747.2 | 822.0 | 873.6 | 910.9 | 925.1 | 937.6 | 935.8 |
| 60° | 291.8 | 371.9 | 462.6 | 548.0 | 626.3 | 686.7 | 724.1 | 745.4 | 756.1 | 761.5 | 757.9 |
| 62.5° | 229.5 | 302.5 | 371.9 | 446.6 | 503.5 | 555.1 | 590.7 | 590.7 | 596.0 | 597.8 | 603.1 |
| 65° | 170.8 | 225.9 | 286.4 | 341.6 | 387.8 | 421.7 | 441.2 | 446.6 | 453.7 | 451.9 | 448.3 |
| 67.5° | 126.3 | 167.3 | 211.7 | 252.6 | 284.7 | 306.0 | 320.2 | 332.7 | 330.9 | 327.4 | 325.6 |
| 70° | 87.2 | 113.9 | 153.0 | 177.9 | 201.0 | 222.4 | 225.9 | 227.7 | 229.5 | 231.3 | 227.7 |
| 72.5° | 60.5 | 80.1 | 101.4 | 122.8 | 137.0 | 145.9 | 154.8 | 156.5 | 156.5 | 156.5 | 154.8 |
| 75° | 30.3 | 40.9 | 60.5 | 69.4 | 81.8 | 85.4 | 92.5 | 92.5 | 97.9 | 90.7 | 88.9 |
| 77.5° | 26.7 | 32.0 | 42.7 | 49.8 | 55.2 | 60.5 | 62.3 | 67.6 | 65.8 | 62.3 | 64.0 |
| 80° | 16.0 | 19.6 | 26.7 | 30.3 | 37.4 | 39.1 | 40.9 | 42.7 | 40.9 | 42.7 | 42.7 |
| 82.5° | 12.5 | 14.2 | 17.8 | 17.8 | 23.1 | 23.1 | 24.9 | 24.9 | 26.7 | 26.7 | 26.7 |
| 85° | 7.1 | 12.5 | 10.7 | 21.3 | 14.2 | 14.2 | 17.8 | 21.3 | 17.8 | 17.8 | 21.3 |
| 87.5° | 7.1 | 7.1 | 5.4 | 7.1 | 7.1 | 7.1 | 8.9 | 10.7 | 10.7 | 12.5 | 10.7 |
| 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: P249109

CATALOG NUMBER: LSR8B60D010 EC8B60840 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3314.5 | 3314.5 | 3314.5 | 3314.5 |
| 2.5° | 3319.9 | 3323.4 | 3318.1 | 3316.3 |
| 5° | 3325.2 | 3325.2 | 3321.6 | 3321.6 |
| 7.5° | 3325.2 | 3325.2 | 3319.9 | 3316.3 |
| 10° | 3310.9 | 3310.9 | 3305.6 | 3302.1 |
| 12.5° | 3284.3 | 3284.3 | 3282.5 | 3277.2 |
| 15° | 3250.5 | 3250.5 | 3243.3 | 3238.0 |
| 17.5° | 3204.2 | 3207.8 | 3198.9 | 3198.9 |
| 20° | 3154.4 | 3152.6 | 3145.5 | 3141.9 |
| 22.5° | 3102.8 | 3099.2 | 3097.5 | 3086.8 |
| 25° | 3047.7 | 3044.1 | 3038.7 | 3033.4 |
| 27.5° | 2953.4 | 2951.6 | 2946.2 | 2939.1 |
| 30° | 2809.2 | 2807.4 | 2800.3 | 2800.3 |
| 32.5° | 2622.4 | 2620.6 | 2613.5 | 2615.3 |
| 35° | 2428.5 | 2435.6 | 2432.1 | 2425.0 |
| 37.5° | 2266.6 | 2272.0 | 2275.5 | 2272.0 |
| 40° | 2131.4 | 2147.4 | 2149.2 | 2152.8 |
| 42.5° | 1987.3 | 2008.6 | 2015.8 | 2019.3 |
| 45° | 1814.7 | 1834.3 | 1850.3 | 1846.7 |
| 47.5° | 1638.6 | 1652.8 | 1667.0 | 1656.4 |
| 50° | 1469.6 | 1478.4 | 1483.8 | 1483.8 |
| 52.5° | 1309.5 | 1309.5 | 1307.7 | 1309.5 |
| 55° | 1126.2 | 1126.2 | 1119.1 | 1122.6 |
| 57.5° | 934.0 | 937.6 | 932.2 | 923.4 |
| 60° | 756.1 | 747.2 | 743.7 | 738.4 |
| 62.5° | 588.9 | 588.9 | 576.5 | 592.4 |
| 65° | 441.2 | 435.9 | 430.5 | 428.8 |
| 67.5° | 320.2 | 318.5 | 313.1 | 311.3 |
| 70° | 225.9 | 218.8 | 217.1 | 213.5 |
| 72.5° | 151.2 | 151.2 | 147.7 | 147.7 |
| 75° | 92.5 | 83.6 | 81.8 | 83.6 |
| 77.5° | 64.0 | 62.3 | 62.3 | 60.5 |
| 80° | 42.7 | 40.9 | 44.5 | 39.1 |
| 82.5° | 26.7 | 28.5 | 26.7 | 28.5 |
| 85° | 17.8 | 21.3 | 19.6 | 19.6 |
| 87.5° | 10.7 | 10.7 | 10.7 | 10.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)