

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: P246047

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246047
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: LSR8B50D010 EC8B50835 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5456.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

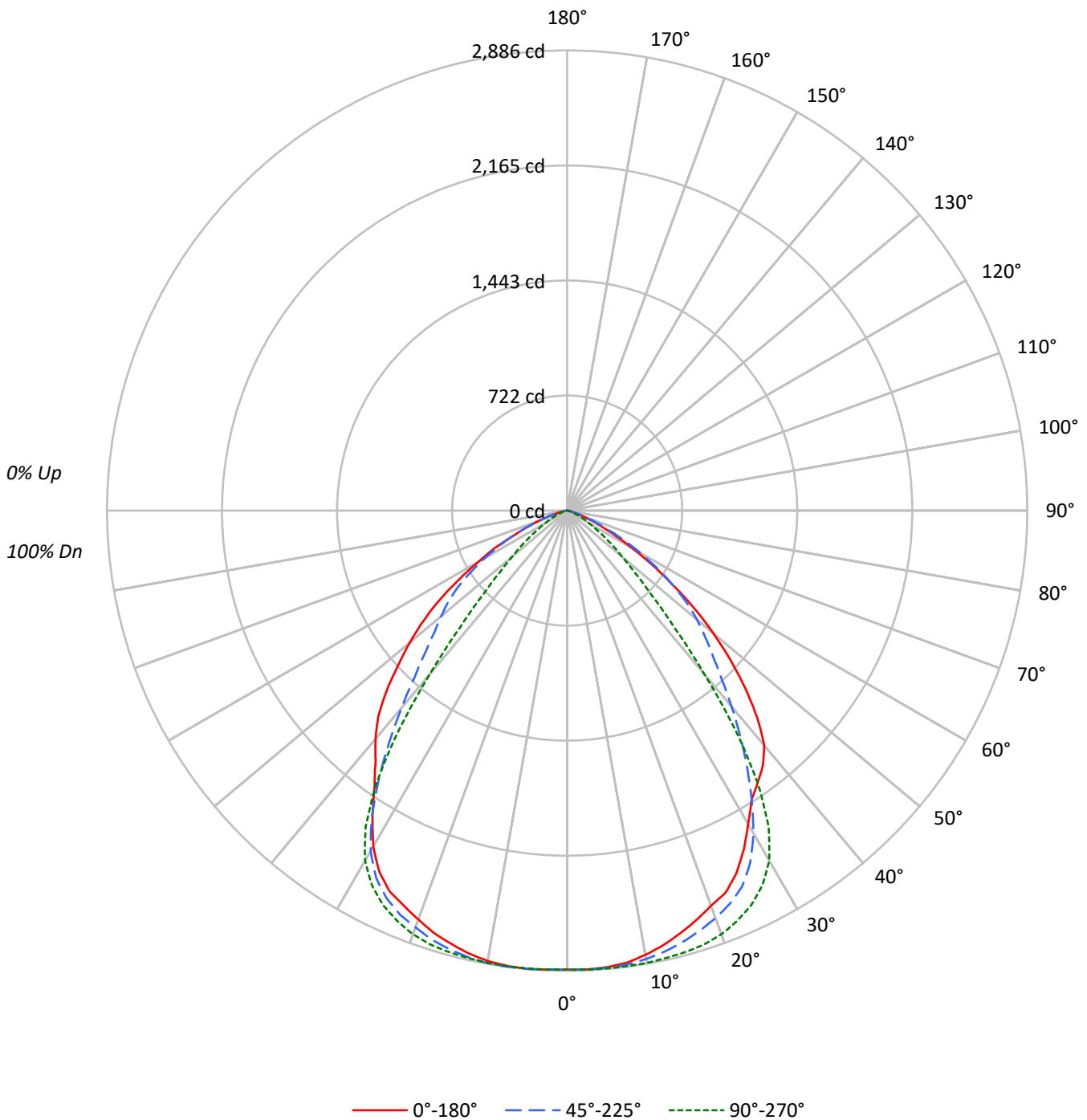
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246047

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P246047

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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° | 88768 | 88768 | 88768 |
| 5° | 88962 | 89204 | 89299 |
| 10° | 88588 | 90185 | 89800 |
| 15° | 87606 | 91504 | 89780 |
| 20° | 86557 | 92792 | 89546 |
| 25° | 85431 | 92899 | 89640 |
| 30° | 80824 | 90288 | 86599 |
| 35° | 78409 | 78469 | 79282 |
| 40° | 77441 | 53989 | 75263 |
| 45° | 69003 | 32410 | 69945 |
| 50° | 57375 | 21573 | 61823 |
| 55° | 43031 | 14870 | 52417 |
| 60° | 29159 | 9911 | 39551 |
| 65° | 17592 | 6428 | 27172 |
| 70° | 9755 | 3480 | 16716 |
| 75° | 4420 | 1477 | 8650 |
| 80° | 3836 | 1651 | 6038 |
| 85° | 4387 | 2194 | 6015 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 274.7 | 5.0 |
| 10°-20° | 797.9 | 14.6 |
| 20°-30° | 1211.0 | 22.2 |
| 30°-40° | 1271.9 | 23.3 |
| 40°-50° | 953.6 | 17.5 |
| 50°-60° | 611.8 | 11.2 |
| 60°-70° | 261.7 | 4.8 |
| 70°-80° | 61.8 | 1.1 |
| 80°-90° | 11.5 | 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° | 2283.6 | 41.9 |
| 0°-40° | 3555.5 | 65.2 |
| 0°-60° | 5120.9 | 93.9 |
| 0°-90° | 5456.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5456.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2879 | 2879 | 2879 | 2879 | 2879 | |
| 5° | 2874 | 2879 | 2882 | 2886 | 2885 | 273 |
| 15° | 2744 | 2801 | 2866 | 2848 | 2812 | 774 |
| 25° | 2511 | 2599 | 2730 | 2681 | 2635 | 1147 |
| 35° | 2083 | 1967 | 2084 | 2060 | 2106 | 1307 |
| 45° | 1582 | 1293 | 743 | 1256 | 1604 | 1212 |
| 55° | 800 | 800 | 277 | 834 | 975 | 726 |
| 65° | 241 | 284 | 88 | 366 | 372 | 257 |
| 75° | 37 | 43 | 12 | 74 | 73 | 54 |
| 85° | 12 | 8 | 6 | 12 | 17 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P246047

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 |
| 2.5° | 2880.2 | 2883.3 | 2881.8 | 2881.8 | 2880.2 | 2881.8 | 2881.8 | 2884.9 | 2884.9 | 2881.8 | 2880.2 |
| 5° | 2874.0 | 2877.1 | 2877.1 | 2874.0 | 2874.0 | 2881.8 | 2877.1 | 2880.2 | 2880.2 | 2878.7 | 2878.7 |
| 7.5° | 2860.2 | 2860.2 | 2866.3 | 2861.7 | 2861.7 | 2866.3 | 2864.8 | 2867.9 | 2871.0 | 2872.5 | 2872.5 |
| 10° | 2829.2 | 2832.3 | 2833.9 | 2833.9 | 2835.4 | 2840.1 | 2843.2 | 2849.4 | 2852.4 | 2855.5 | 2857.1 |
| 12.5° | 2790.6 | 2795.2 | 2796.8 | 2795.2 | 2799.9 | 2806.1 | 2813.8 | 2821.5 | 2826.2 | 2832.3 | 2837.0 |
| 15° | 2744.2 | 2744.2 | 2747.3 | 2752.0 | 2755.1 | 2764.4 | 2772.1 | 2781.3 | 2793.7 | 2801.4 | 2809.2 |
| 17.5° | 2693.3 | 2696.4 | 2701.0 | 2701.0 | 2707.2 | 2722.6 | 2727.3 | 2741.2 | 2755.1 | 2762.8 | 2778.3 |
| 20° | 2637.7 | 2640.7 | 2645.4 | 2648.5 | 2656.2 | 2668.6 | 2677.8 | 2690.2 | 2705.6 | 2719.6 | 2735.0 |
| 22.5° | 2594.4 | 2588.2 | 2591.3 | 2594.4 | 2602.1 | 2612.9 | 2623.8 | 2639.2 | 2654.6 | 2668.6 | 2684.0 |
| 25° | 2510.9 | 2512.5 | 2517.1 | 2520.2 | 2529.5 | 2538.8 | 2551.1 | 2569.6 | 2583.6 | 2599.0 | 2616.0 |
| 27.5° | 2398.1 | 2399.7 | 2407.4 | 2407.4 | 2415.1 | 2430.6 | 2438.3 | 2453.8 | 2472.3 | 2487.8 | 2507.9 |
| 30° | 2269.9 | 2273.0 | 2273.0 | 2279.2 | 2283.8 | 2291.5 | 2299.2 | 2314.7 | 2324.0 | 2337.9 | 2365.7 |
| 32.5° | 2152.5 | 2155.5 | 2154.0 | 2152.5 | 2147.8 | 2146.3 | 2144.7 | 2147.8 | 2150.9 | 2155.5 | 2166.3 |
| 35° | 2082.9 | 2075.2 | 2069.0 | 2058.2 | 2045.8 | 2030.4 | 2016.5 | 1997.9 | 1980.9 | 1967.0 | 1951.6 |
| 37.5° | 2016.5 | 2014.9 | 2005.7 | 1990.2 | 1965.5 | 1937.7 | 1905.2 | 1865.0 | 1824.9 | 1781.6 | 1739.9 |
| 40° | 1923.8 | 1919.1 | 1911.4 | 1889.8 | 1862.0 | 1828.0 | 1784.7 | 1735.3 | 1670.3 | 1603.9 | 1535.9 |
| 42.5° | 1766.1 | 1767.7 | 1758.4 | 1741.4 | 1715.2 | 1682.7 | 1637.9 | 1583.8 | 1514.3 | 1435.5 | 1347.4 |
| 45° | 1582.3 | 1582.3 | 1579.2 | 1565.3 | 1546.7 | 1520.5 | 1486.5 | 1441.7 | 1373.7 | 1293.3 | 1199.1 |
| 47.5° | 1390.7 | 1392.2 | 1387.6 | 1384.5 | 1376.8 | 1359.8 | 1335.1 | 1301.1 | 1253.2 | 1175.9 | 1081.6 |
| 50° | 1196.0 | 1196.0 | 1203.7 | 1202.2 | 1202.2 | 1196.0 | 1185.2 | 1165.1 | 1123.4 | 1061.5 | 973.5 |
| 52.5° | 1001.3 | 1004.4 | 1009.0 | 1015.2 | 1022.9 | 1035.3 | 1022.9 | 1013.6 | 987.4 | 939.5 | 863.8 |
| 55° | 800.4 | 803.5 | 811.2 | 822.0 | 831.3 | 843.7 | 846.8 | 846.8 | 832.8 | 800.4 | 743.2 |
| 57.5° | 628.9 | 624.3 | 630.5 | 639.7 | 652.1 | 664.4 | 673.7 | 684.5 | 683.0 | 661.3 | 615.0 |
| 60° | 472.8 | 474.4 | 479.0 | 488.3 | 497.6 | 508.4 | 520.7 | 530.0 | 534.6 | 523.8 | 494.5 |
| 62.5° | 344.6 | 344.6 | 350.7 | 360.0 | 364.7 | 380.1 | 387.8 | 392.5 | 397.1 | 395.6 | 377.0 |
| 65° | 241.1 | 244.1 | 247.2 | 251.9 | 256.5 | 265.8 | 270.4 | 279.7 | 282.8 | 284.3 | 270.4 |
| 67.5° | 170.0 | 165.3 | 168.4 | 171.5 | 176.1 | 182.3 | 191.6 | 191.6 | 196.2 | 196.2 | 187.0 |
| 70° | 108.2 | 108.2 | 109.7 | 114.3 | 117.4 | 119.0 | 122.1 | 125.1 | 129.8 | 128.2 | 128.2 |
| 72.5° | 72.6 | 71.1 | 72.6 | 74.2 | 75.7 | 80.3 | 80.3 | 81.9 | 85.0 | 86.5 | 80.3 |
| 75° | 37.1 | 38.6 | 41.7 | 40.2 | 44.8 | 41.7 | 43.3 | 47.9 | 46.4 | 43.3 | 43.3 |
| 77.5° | 30.9 | 30.9 | 30.9 | 29.4 | 32.4 | 32.4 | 30.9 | 34.0 | 32.4 | 32.4 | 30.9 |
| 80° | 21.6 | 23.2 | 21.6 | 20.1 | 21.6 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 18.5 |
| 82.5° | 17.0 | 13.9 | 15.5 | 13.9 | 15.5 | 15.5 | 13.9 | 12.4 | 12.4 | 13.9 | 12.4 |
| 85° | 12.4 | 9.3 | 10.8 | 10.8 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 7.7 | 7.7 |
| 87.5° | 7.7 | 4.6 | 4.6 | 4.6 | 6.2 | 6.2 | 6.2 | 4.6 | 6.2 | 6.2 | 3.1 |
| 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: P246047

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 |
| 2.5° | 2883.3 | 2881.8 | 2884.9 | 2883.3 | 2883.3 | 2881.8 | 2883.3 | 2881.8 | 2884.9 | 2878.7 | 2880.2 |
| 5° | 2883.3 | 2880.2 | 2881.8 | 2883.3 | 2884.9 | 2881.8 | 2881.8 | 2881.8 | 2884.9 | 2881.8 | 2883.3 |
| 7.5° | 2877.1 | 2875.6 | 2880.2 | 2883.3 | 2881.8 | 2880.2 | 2883.3 | 2881.8 | 2884.9 | 2883.3 | 2886.4 |
| 10° | 2864.8 | 2866.3 | 2869.4 | 2874.0 | 2875.6 | 2877.1 | 2880.2 | 2880.2 | 2884.9 | 2878.7 | 2881.8 |
| 12.5° | 2846.3 | 2852.4 | 2860.2 | 2863.2 | 2869.4 | 2869.4 | 2872.5 | 2874.0 | 2877.1 | 2875.6 | 2880.2 |
| 15° | 2823.1 | 2830.8 | 2840.1 | 2847.8 | 2855.5 | 2860.2 | 2864.8 | 2866.3 | 2871.0 | 2866.3 | 2867.9 |
| 17.5° | 2795.2 | 2804.5 | 2818.4 | 2827.7 | 2840.1 | 2844.7 | 2850.9 | 2854.0 | 2858.6 | 2855.5 | 2857.1 |
| 20° | 2756.6 | 2767.5 | 2782.9 | 2796.8 | 2804.5 | 2815.3 | 2823.1 | 2827.7 | 2830.8 | 2827.7 | 2829.2 |
| 22.5° | 2702.5 | 2718.0 | 2738.1 | 2748.9 | 2764.4 | 2773.6 | 2775.2 | 2786.0 | 2793.7 | 2786.0 | 2789.1 |
| 25° | 2639.2 | 2654.6 | 2670.1 | 2693.3 | 2707.2 | 2718.0 | 2728.8 | 2730.4 | 2738.1 | 2736.5 | 2735.0 |
| 27.5° | 2534.1 | 2554.2 | 2580.5 | 2599.0 | 2617.6 | 2634.6 | 2646.9 | 2650.0 | 2657.7 | 2654.6 | 2656.2 |
| 30° | 2390.4 | 2412.1 | 2436.8 | 2466.1 | 2492.4 | 2509.4 | 2524.8 | 2535.7 | 2543.4 | 2538.8 | 2537.2 |
| 32.5° | 2186.5 | 2208.1 | 2234.4 | 2263.7 | 2294.6 | 2319.3 | 2337.9 | 2351.8 | 2361.1 | 2358.0 | 2350.2 |
| 35° | 1953.1 | 1959.3 | 1976.3 | 1999.5 | 2025.7 | 2052.0 | 2069.0 | 2084.5 | 2095.3 | 2098.4 | 2098.4 |
| 37.5° | 1713.6 | 1693.6 | 1681.2 | 1681.2 | 1696.6 | 1707.4 | 1722.9 | 1732.2 | 1749.2 | 1755.3 | 1760.0 |
| 40° | 1481.8 | 1435.5 | 1392.2 | 1359.8 | 1338.2 | 1336.6 | 1336.6 | 1341.2 | 1356.7 | 1376.8 | 1395.3 |
| 42.5° | 1274.8 | 1200.6 | 1134.2 | 1073.9 | 1030.7 | 1005.9 | 995.1 | 996.7 | 1009.0 | 1027.6 | 1058.4 |
| 45° | 1109.4 | 1016.7 | 933.3 | 860.7 | 802.0 | 763.3 | 744.8 | 743.2 | 752.5 | 774.1 | 808.2 |
| 47.5° | 981.2 | 882.3 | 788.0 | 704.6 | 641.3 | 599.5 | 577.9 | 571.7 | 577.9 | 598.0 | 638.2 |
| 50° | 874.6 | 772.6 | 675.3 | 588.7 | 520.7 | 477.5 | 457.4 | 449.7 | 457.4 | 474.4 | 514.5 |
| 52.5° | 775.7 | 670.6 | 579.5 | 496.0 | 423.4 | 386.3 | 364.7 | 360.0 | 364.7 | 384.7 | 417.2 |
| 55° | 661.3 | 571.7 | 482.1 | 398.7 | 335.3 | 298.2 | 281.2 | 276.6 | 281.2 | 299.8 | 333.8 |
| 57.5° | 548.6 | 471.3 | 392.5 | 316.8 | 262.7 | 230.2 | 214.8 | 208.6 | 219.4 | 231.8 | 272.0 |
| 60° | 443.5 | 381.7 | 315.2 | 248.8 | 204.0 | 174.6 | 162.2 | 160.7 | 163.8 | 179.2 | 207.0 |
| 62.5° | 347.7 | 296.7 | 244.1 | 190.1 | 153.0 | 140.6 | 125.1 | 123.6 | 126.7 | 136.0 | 157.6 |
| 65° | 250.3 | 217.9 | 177.7 | 139.1 | 109.7 | 92.7 | 86.5 | 88.1 | 91.2 | 97.4 | 117.4 |
| 67.5° | 174.6 | 151.4 | 123.6 | 97.4 | 75.7 | 68.0 | 61.8 | 60.3 | 61.8 | 72.6 | 83.4 |
| 70° | 117.4 | 103.5 | 83.4 | 74.2 | 52.6 | 41.7 | 43.3 | 38.6 | 44.8 | 44.8 | 54.1 |
| 72.5° | 77.2 | 68.0 | 55.6 | 43.3 | 37.1 | 29.4 | 29.4 | 27.8 | 30.9 | 32.4 | 40.2 |
| 75° | 40.2 | 30.9 | 30.9 | 21.6 | 15.5 | 7.7 | 13.9 | 12.4 | 10.8 | 12.4 | 15.5 |
| 77.5° | 27.8 | 23.2 | 21.6 | 17.0 | 15.5 | 12.4 | 12.4 | 12.4 | 12.4 | 13.9 | 15.5 |
| 80° | 17.0 | 17.0 | 12.4 | 10.8 | 9.3 | 7.7 | 9.3 | 9.3 | 9.3 | 9.3 | 10.8 |
| 82.5° | 10.8 | 9.3 | 9.3 | 7.7 | 7.7 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 9.3 |
| 85° | 9.3 | 6.2 | 6.2 | 4.6 | 6.2 | 10.8 | 4.6 | 6.2 | 6.2 | 6.2 | 4.6 |
| 87.5° | 3.1 | 4.6 | 4.6 | 4.6 | 3.1 | 1.5 | 3.1 | 4.6 | 4.6 | 7.7 | 6.2 |
| 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: P246047

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 | 2878.7 |
| 2.5° | 2883.3 | 2884.9 | 2884.9 | 2883.3 | 2883.3 | 2880.2 | 2886.4 | 2881.8 | 2883.3 | 2889.5 | 2884.9 |
| 5° | 2886.4 | 2888.0 | 2888.0 | 2886.4 | 2886.4 | 2886.4 | 2888.0 | 2888.0 | 2886.4 | 2884.9 | 2888.0 |
| 7.5° | 2892.6 | 2891.1 | 2891.1 | 2888.0 | 2888.0 | 2884.9 | 2888.0 | 2883.3 | 2886.4 | 2883.3 | 2888.0 |
| 10° | 2884.9 | 2886.4 | 2884.9 | 2883.3 | 2883.3 | 2881.8 | 2881.8 | 2877.1 | 2878.7 | 2874.0 | 2877.1 |
| 12.5° | 2880.2 | 2878.7 | 2878.7 | 2875.6 | 2872.5 | 2869.4 | 2867.9 | 2863.2 | 2863.2 | 2852.4 | 2857.1 |
| 15° | 2867.9 | 2869.4 | 2864.8 | 2858.6 | 2855.5 | 2847.8 | 2844.7 | 2838.5 | 2832.3 | 2824.6 | 2826.2 |
| 17.5° | 2857.1 | 2852.4 | 2846.3 | 2840.1 | 2827.7 | 2821.5 | 2815.3 | 2806.1 | 2803.0 | 2793.7 | 2790.6 |
| 20° | 2824.6 | 2821.5 | 2813.8 | 2803.0 | 2795.2 | 2781.3 | 2775.2 | 2765.9 | 2758.2 | 2748.9 | 2744.2 |
| 22.5° | 2782.9 | 2779.8 | 2770.5 | 2759.7 | 2747.3 | 2741.2 | 2735.0 | 2718.0 | 2710.3 | 2701.0 | 2699.4 |
| 25° | 2730.4 | 2725.7 | 2716.5 | 2704.1 | 2697.9 | 2680.9 | 2674.7 | 2662.4 | 2659.3 | 2650.0 | 2648.5 |
| 27.5° | 2650.0 | 2643.8 | 2633.0 | 2617.6 | 2606.7 | 2595.9 | 2589.8 | 2580.5 | 2577.4 | 2568.1 | 2566.6 |
| 30° | 2529.5 | 2521.7 | 2500.1 | 2494.0 | 2475.4 | 2464.6 | 2464.6 | 2452.2 | 2453.8 | 2447.6 | 2447.6 |
| 32.5° | 2339.4 | 2327.1 | 2310.1 | 2297.7 | 2285.3 | 2279.2 | 2279.2 | 2274.5 | 2277.6 | 2277.6 | 2280.7 |
| 35° | 2087.6 | 2070.6 | 2061.3 | 2053.6 | 2053.6 | 2059.7 | 2078.3 | 2082.9 | 2092.2 | 2099.9 | 2106.1 |
| 37.5° | 1764.6 | 1763.1 | 1773.9 | 1783.2 | 1806.3 | 1832.6 | 1865.0 | 1892.9 | 1919.1 | 1937.7 | 1956.2 |
| 40° | 1415.4 | 1454.0 | 1484.9 | 1528.2 | 1563.7 | 1614.7 | 1673.4 | 1721.3 | 1766.1 | 1798.6 | 1832.6 |
| 42.5° | 1104.8 | 1154.3 | 1219.2 | 1282.5 | 1345.9 | 1415.4 | 1492.7 | 1559.1 | 1617.8 | 1662.6 | 1698.2 |
| 45° | 860.7 | 928.7 | 1007.5 | 1087.8 | 1169.7 | 1256.3 | 1336.6 | 1404.6 | 1466.4 | 1512.8 | 1548.3 |
| 47.5° | 693.8 | 768.0 | 857.6 | 945.7 | 1038.4 | 1129.5 | 1219.2 | 1277.9 | 1328.9 | 1365.9 | 1398.4 |
| 50° | 573.3 | 652.1 | 746.3 | 846.8 | 939.5 | 1030.7 | 1107.9 | 1165.1 | 1206.8 | 1239.2 | 1259.3 |
| 52.5° | 479.0 | 562.4 | 662.9 | 763.3 | 856.0 | 939.5 | 1009.0 | 1052.3 | 1086.3 | 1109.4 | 1128.0 |
| 55° | 395.6 | 475.9 | 570.2 | 664.4 | 755.6 | 834.4 | 891.6 | 924.0 | 950.3 | 964.2 | 975.0 |
| 57.5° | 323.0 | 397.1 | 483.6 | 570.2 | 649.0 | 713.9 | 758.7 | 791.1 | 803.5 | 814.3 | 812.8 |
| 60° | 253.4 | 323.0 | 401.8 | 475.9 | 543.9 | 596.4 | 628.9 | 647.4 | 656.7 | 661.3 | 658.2 |
| 62.5° | 199.3 | 262.7 | 323.0 | 387.8 | 437.3 | 482.1 | 513.0 | 513.0 | 517.6 | 519.2 | 523.8 |
| 65° | 148.3 | 196.2 | 248.8 | 296.7 | 336.8 | 366.2 | 383.2 | 387.8 | 394.0 | 392.5 | 389.4 |
| 67.5° | 109.7 | 145.3 | 183.9 | 219.4 | 247.2 | 265.8 | 278.1 | 289.0 | 287.4 | 284.3 | 282.8 |
| 70° | 75.7 | 98.9 | 132.9 | 154.5 | 174.6 | 193.2 | 196.2 | 197.8 | 199.3 | 200.9 | 197.8 |
| 72.5° | 52.6 | 69.5 | 88.1 | 106.6 | 119.0 | 126.7 | 134.4 | 136.0 | 136.0 | 136.0 | 134.4 |
| 75° | 26.3 | 35.5 | 52.6 | 60.3 | 71.1 | 74.2 | 80.3 | 80.3 | 85.0 | 78.8 | 77.2 |
| 77.5° | 23.2 | 27.8 | 37.1 | 43.3 | 47.9 | 52.6 | 54.1 | 58.7 | 57.2 | 54.1 | 55.6 |
| 80° | 13.9 | 17.0 | 23.2 | 26.3 | 32.4 | 34.0 | 35.5 | 37.1 | 35.5 | 37.1 | 37.1 |
| 82.5° | 10.8 | 12.4 | 15.5 | 15.5 | 20.1 | 20.1 | 21.6 | 21.6 | 23.2 | 23.2 | 23.2 |
| 85° | 6.2 | 10.8 | 9.3 | 18.5 | 12.4 | 12.4 | 15.5 | 18.5 | 15.5 | 15.5 | 18.5 |
| 87.5° | 6.2 | 6.2 | 4.6 | 6.2 | 6.2 | 6.2 | 7.7 | 9.3 | 9.3 | 10.8 | 9.3 |
| 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: P246047

CATALOG NUMBER: LSR8B50D010 EC8B50835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2878.7 | 2878.7 | 2878.7 | 2878.7 |
| 2.5° | 2883.3 | 2886.4 | 2881.8 | 2880.2 |
| 5° | 2888.0 | 2888.0 | 2884.9 | 2884.9 |
| 7.5° | 2888.0 | 2888.0 | 2883.3 | 2880.2 |
| 10° | 2875.6 | 2875.6 | 2871.0 | 2867.9 |
| 12.5° | 2852.4 | 2852.4 | 2850.9 | 2846.3 |
| 15° | 2823.1 | 2823.1 | 2816.9 | 2812.3 |
| 17.5° | 2782.9 | 2786.0 | 2778.3 | 2778.3 |
| 20° | 2739.6 | 2738.1 | 2731.9 | 2728.8 |
| 22.5° | 2694.8 | 2691.7 | 2690.2 | 2680.9 |
| 25° | 2646.9 | 2643.8 | 2639.2 | 2634.6 |
| 27.5° | 2565.0 | 2563.5 | 2558.8 | 2552.7 |
| 30° | 2439.9 | 2438.3 | 2432.1 | 2432.1 |
| 32.5° | 2277.6 | 2276.1 | 2269.9 | 2271.5 |
| 35° | 2109.2 | 2115.4 | 2112.3 | 2106.1 |
| 37.5° | 1968.6 | 1973.2 | 1976.3 | 1973.2 |
| 40° | 1851.1 | 1865.0 | 1866.6 | 1869.7 |
| 42.5° | 1726.0 | 1744.5 | 1750.7 | 1753.8 |
| 45° | 1576.1 | 1593.1 | 1607.0 | 1603.9 |
| 47.5° | 1423.1 | 1435.5 | 1447.8 | 1438.6 |
| 50° | 1276.3 | 1284.0 | 1288.7 | 1288.7 |
| 52.5° | 1137.3 | 1137.3 | 1135.7 | 1137.3 |
| 55° | 978.1 | 978.1 | 971.9 | 975.0 |
| 57.5° | 811.2 | 814.3 | 809.7 | 802.0 |
| 60° | 656.7 | 649.0 | 645.9 | 641.3 |
| 62.5° | 511.5 | 511.5 | 500.7 | 514.5 |
| 65° | 383.2 | 378.6 | 373.9 | 372.4 |
| 67.5° | 278.1 | 276.6 | 272.0 | 270.4 |
| 70° | 196.2 | 190.1 | 188.5 | 185.4 |
| 72.5° | 131.3 | 131.3 | 128.2 | 128.2 |
| 75° | 80.3 | 72.6 | 71.1 | 72.6 |
| 77.5° | 55.6 | 54.1 | 54.1 | 52.6 |
| 80° | 37.1 | 35.5 | 38.6 | 34.0 |
| 82.5° | 23.2 | 24.7 | 23.2 | 24.7 |
| 85° | 15.5 | 18.5 | 17.0 | 17.0 |
| 87.5° | 9.3 | 9.3 | 9.3 | 9.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)