

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: P249208

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249208  
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 EC8B60835 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6290.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

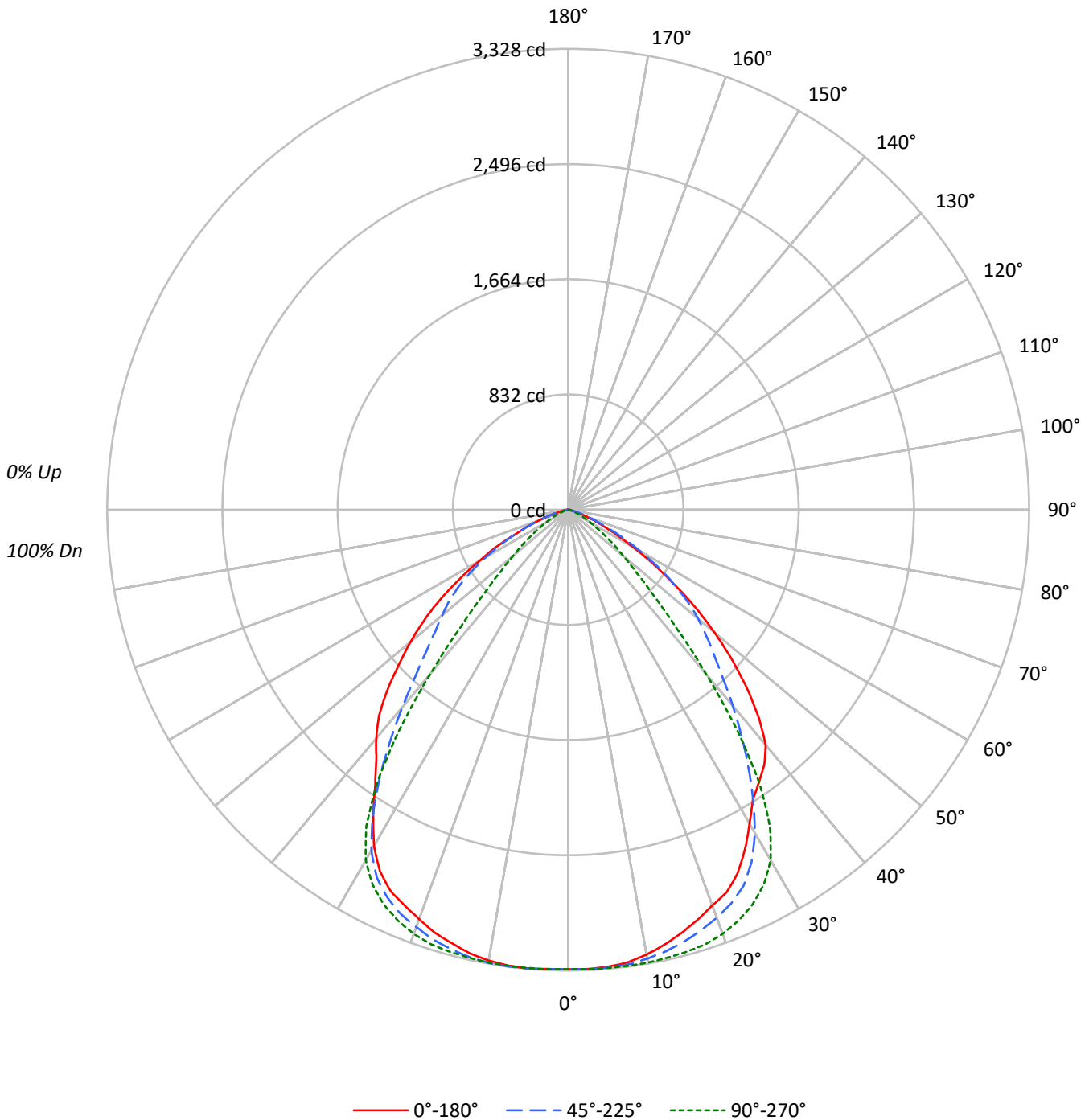
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

**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°  | 102336 | 102336 | 102336 |
| 5°  | 102563 | 102839 | 102950 |
| 10° | 102130 | 103972 | 103527 |
| 15° | 100998 | 105493 | 103501 |
| 20° | 99788  | 106975 | 103234 |
| 25° | 98493  | 107098 | 103341 |
| 30° | 93179  | 104089 | 99838  |
| 35° | 90395  | 90463  | 91404  |
| 40° | 89275  | 62241  | 86767  |
| 45° | 79547  | 37364  | 80638  |
| 50° | 66145  | 24869  | 71273  |
| 55° | 49611  | 17145  | 60428  |
| 60° | 33618  | 11422  | 45595  |
| 65° | 20277  | 7413   | 31324  |
| 70° | 11243  | 4012   | 19276  |
| 75° | 5099   | 1704   | 9972   |
| 80° | 4422   | 1900   | 6961   |
| 85° | 5059   | 2512   | 6935   |



TEST NUMBER: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 316.7  | 5.0       |
| 10°-20°   | 919.8  | 14.6      |
| 20°-30°   | 1396.1 | 22.2      |
| 30°-40°   | 1466.3 | 23.3      |
| 40°-50°   | 1099.4 | 17.5      |
| 50°-60°   | 705.4  | 11.2      |
| 60°-70°   | 301.7  | 4.8       |
| 70°-80°   | 71.3   | 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°    | 2632.6 | 41.9      |
| 0°-40°    | 4099.0 | 65.2      |
| 0°-60°    | 5903.7 | 93.9      |
| 0°-90°    | 6290.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6290.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3319 | 3319 | 3319 | 3319 | 3319 |      |
| 5°  | 3313 | 3319 | 3322 | 3328 | 3326 | 315  |
| 15° | 3164 | 3230 | 3304 | 3283 | 3242 | 892  |
| 25° | 2895 | 2996 | 3148 | 3091 | 3037 | 1322 |
| 35° | 2401 | 2268 | 2403 | 2375 | 2428 | 1507 |
| 45° | 1824 | 1491 | 857  | 1448 | 1849 | 1397 |
| 55° | 923  | 923  | 319  | 962  | 1124 | 837  |
| 65° | 278  | 328  | 102  | 422  | 429  | 297  |
| 75° | 43   | 50   | 14   | 86   | 84   | 62   |
| 85° | 14   | 9    | 7    | 14   | 20   | 15   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 |
| 2.5°  | 3320.5 | 3324.1 | 3322.3 | 3322.3 | 3320.5 | 3322.3 | 3322.3 | 3325.9 | 3325.9 | 3322.3 | 3320.5 |
| 5°    | 3313.4 | 3316.9 | 3316.9 | 3313.4 | 3313.4 | 3322.3 | 3316.9 | 3320.5 | 3320.5 | 3318.7 | 3318.7 |
| 7.5°  | 3297.4 | 3297.4 | 3304.5 | 3299.2 | 3299.2 | 3304.5 | 3302.7 | 3306.3 | 3309.8 | 3311.6 | 3311.6 |
| 10°   | 3261.7 | 3265.3 | 3267.1 | 3267.1 | 3268.9 | 3274.2 | 3277.8 | 3284.9 | 3288.4 | 3292.0 | 3293.8 |
| 12.5° | 3217.2 | 3222.5 | 3224.3 | 3222.5 | 3227.9 | 3235.0 | 3243.9 | 3252.8 | 3258.2 | 3265.3 | 3270.6 |
| 15°   | 3163.7 | 3163.7 | 3167.3 | 3172.7 | 3176.2 | 3186.9 | 3195.8 | 3206.5 | 3220.7 | 3229.7 | 3238.6 |
| 17.5° | 3105.0 | 3108.5 | 3113.9 | 3113.9 | 3121.0 | 3138.8 | 3144.2 | 3160.2 | 3176.2 | 3185.1 | 3203.0 |
| 20°   | 3040.9 | 3044.4 | 3049.7 | 3053.3 | 3062.2 | 3076.5 | 3087.1 | 3101.4 | 3119.2 | 3135.3 | 3153.1 |
| 22.5° | 2990.9 | 2983.8 | 2987.4 | 2990.9 | 2999.9 | 3012.3 | 3024.8 | 3042.6 | 3060.4 | 3076.5 | 3094.3 |
| 25°   | 2894.8 | 2896.5 | 2901.9 | 2905.4 | 2916.2 | 2926.8 | 2941.1 | 2962.4 | 2978.5 | 2996.3 | 3015.9 |
| 27.5° | 2764.7 | 2766.5 | 2775.4 | 2775.4 | 2784.3 | 2802.1 | 2811.0 | 2828.8 | 2850.2 | 2868.0 | 2891.2 |
| 30°   | 2616.9 | 2620.4 | 2620.4 | 2627.6 | 2632.9 | 2641.8 | 2650.7 | 2668.5 | 2679.2 | 2695.2 | 2727.3 |
| 32.5° | 2481.5 | 2485.0 | 2483.2 | 2481.5 | 2476.1 | 2474.3 | 2472.6 | 2476.1 | 2479.7 | 2485.0 | 2497.5 |
| 35°   | 2401.3 | 2392.4 | 2385.3 | 2372.8 | 2358.6 | 2340.7 | 2324.7 | 2303.4 | 2283.7 | 2267.7 | 2249.9 |
| 37.5° | 2324.7 | 2322.9 | 2312.2 | 2294.4 | 2265.9 | 2233.9 | 2196.5 | 2150.1 | 2103.8 | 2053.9 | 2005.9 |
| 40°   | 2217.8 | 2212.5 | 2203.6 | 2178.6 | 2146.6 | 2107.4 | 2057.5 | 2000.5 | 1925.7 | 1849.1 | 1770.7 |
| 42.5° | 2036.1 | 2037.9 | 2027.2 | 2007.6 | 1977.4 | 1939.9 | 1888.3 | 1825.9 | 1745.8 | 1654.9 | 1553.4 |
| 45°   | 1824.1 | 1824.1 | 1820.6 | 1804.5 | 1783.2 | 1752.9 | 1713.7 | 1662.0 | 1583.7 | 1491.0 | 1382.3 |
| 47.5° | 1603.2 | 1605.0 | 1599.7 | 1596.1 | 1587.2 | 1567.6 | 1539.1 | 1499.9 | 1444.7 | 1355.6 | 1247.0 |
| 50°   | 1378.8 | 1378.8 | 1387.7 | 1385.9 | 1385.9 | 1378.8 | 1366.3 | 1343.2 | 1295.1 | 1223.8 | 1122.3 |
| 52.5° | 1154.3 | 1157.9 | 1163.3 | 1170.4 | 1179.3 | 1193.5 | 1179.3 | 1168.6 | 1138.3 | 1083.1 | 995.8  |
| 55°   | 922.8  | 926.3  | 935.2  | 947.7  | 958.4  | 972.7  | 976.2  | 976.2  | 960.2  | 922.8  | 856.8  |
| 57.5° | 725.0  | 719.7  | 726.8  | 737.5  | 751.8  | 766.0  | 776.7  | 789.2  | 787.4  | 762.4  | 709.0  |
| 60°   | 545.1  | 546.9  | 552.2  | 562.9  | 573.6  | 586.1  | 600.3  | 611.0  | 616.4  | 603.9  | 570.0  |
| 62.5° | 397.3  | 397.3  | 404.4  | 415.0  | 420.4  | 438.2  | 447.1  | 452.5  | 457.8  | 456.0  | 434.7  |
| 65°   | 277.9  | 281.4  | 285.0  | 290.4  | 295.7  | 306.4  | 311.7  | 322.4  | 326.0  | 327.8  | 311.7  |
| 67.5° | 196.0  | 190.6  | 194.2  | 197.7  | 203.1  | 210.2  | 220.9  | 220.9  | 226.2  | 226.2  | 215.5  |
| 70°   | 124.7  | 124.7  | 126.5  | 131.8  | 135.4  | 137.2  | 140.7  | 144.3  | 149.6  | 147.8  | 147.8  |
| 72.5° | 83.7   | 81.9   | 83.7   | 85.5   | 87.3   | 92.6   | 92.6   | 94.4   | 98.0   | 99.8   | 92.6   |
| 75°   | 42.8   | 44.5   | 48.1   | 46.3   | 51.7   | 48.1   | 49.9   | 55.2   | 53.4   | 49.9   | 49.9   |
| 77.5° | 35.6   | 35.6   | 35.6   | 33.9   | 37.4   | 37.4   | 35.6   | 39.2   | 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   | 21.4   |
| 82.5° | 19.6   | 16.0   | 17.8   | 16.0   | 17.8   | 17.8   | 16.0   | 14.3   | 14.3   | 16.0   | 14.3   |
| 85°   | 14.3   | 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: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 |
| 2.5°  | 3324.1 | 3322.3 | 3325.9 | 3324.1 | 3324.1 | 3322.3 | 3324.1 | 3322.3 | 3325.9 | 3318.7 | 3320.5 |
| 5°    | 3324.1 | 3320.5 | 3322.3 | 3324.1 | 3325.9 | 3322.3 | 3322.3 | 3322.3 | 3325.9 | 3322.3 | 3324.1 |
| 7.5°  | 3316.9 | 3315.2 | 3320.5 | 3324.1 | 3322.3 | 3320.5 | 3324.1 | 3322.3 | 3325.9 | 3324.1 | 3327.6 |
| 10°   | 3302.7 | 3304.5 | 3308.0 | 3313.4 | 3315.2 | 3316.9 | 3320.5 | 3320.5 | 3325.9 | 3318.7 | 3322.3 |
| 12.5° | 3281.3 | 3288.4 | 3297.4 | 3300.9 | 3308.0 | 3308.0 | 3311.6 | 3313.4 | 3316.9 | 3315.2 | 3320.5 |
| 15°   | 3254.6 | 3263.5 | 3274.2 | 3283.1 | 3292.0 | 3297.4 | 3302.7 | 3304.5 | 3309.8 | 3304.5 | 3306.3 |
| 17.5° | 3222.5 | 3233.2 | 3249.2 | 3259.9 | 3274.2 | 3279.5 | 3286.6 | 3290.2 | 3295.6 | 3292.0 | 3293.8 |
| 20°   | 3178.0 | 3190.5 | 3208.3 | 3224.3 | 3233.2 | 3245.7 | 3254.6 | 3259.9 | 3263.5 | 3259.9 | 3261.7 |
| 22.5° | 3115.7 | 3133.5 | 3156.6 | 3169.1 | 3186.9 | 3197.6 | 3199.4 | 3211.9 | 3220.7 | 3211.9 | 3215.4 |
| 25°   | 3042.6 | 3060.4 | 3078.3 | 3105.0 | 3121.0 | 3133.5 | 3145.9 | 3147.7 | 3156.6 | 3154.8 | 3153.1 |
| 27.5° | 2921.5 | 2944.7 | 2974.9 | 2996.3 | 3017.7 | 3037.3 | 3051.5 | 3055.1 | 3064.0 | 3060.4 | 3062.2 |
| 30°   | 2755.8 | 2780.8 | 2809.3 | 2843.1 | 2873.4 | 2893.0 | 2910.8 | 2923.3 | 2932.1 | 2926.8 | 2925.0 |
| 32.5° | 2520.7 | 2545.6 | 2575.9 | 2609.7 | 2645.4 | 2673.8 | 2695.2 | 2711.3 | 2722.0 | 2718.4 | 2709.5 |
| 35°   | 2251.7 | 2258.8 | 2278.4 | 2305.1 | 2335.4 | 2365.7 | 2385.3 | 2403.1 | 2415.5 | 2419.1 | 2419.1 |
| 37.5° | 1975.6 | 1952.4 | 1938.2 | 1938.2 | 1956.0 | 1968.4 | 1986.3 | 1996.9 | 2016.5 | 2023.6 | 2029.0 |
| 40°   | 1708.3 | 1654.9 | 1605.0 | 1567.6 | 1542.7 | 1540.9 | 1540.9 | 1546.2 | 1564.1 | 1587.2 | 1608.6 |
| 42.5° | 1469.6 | 1384.1 | 1307.5 | 1238.1 | 1188.2 | 1159.7 | 1147.2 | 1149.0 | 1163.3 | 1184.6 | 1220.2 |
| 45°   | 1279.0 | 1172.2 | 1076.0 | 992.2  | 924.5  | 880.0  | 858.6  | 856.8  | 867.5  | 892.5  | 931.7  |
| 47.5° | 1131.2 | 1017.2 | 908.5  | 812.3  | 739.3  | 691.2  | 666.2  | 659.1  | 666.2  | 689.4  | 735.7  |
| 50°   | 1008.3 | 890.7  | 778.5  | 678.7  | 600.3  | 550.5  | 527.3  | 518.4  | 527.3  | 546.9  | 593.2  |
| 52.5° | 894.2  | 773.1  | 668.0  | 571.8  | 488.1  | 445.3  | 420.4  | 415.0  | 420.4  | 443.5  | 481.0  |
| 55°   | 762.4  | 659.1  | 555.8  | 459.6  | 386.6  | 343.8  | 324.2  | 318.9  | 324.2  | 345.6  | 384.8  |
| 57.5° | 632.4  | 543.3  | 452.5  | 365.2  | 302.8  | 265.4  | 247.6  | 240.5  | 252.9  | 267.2  | 313.5  |
| 60°   | 511.2  | 440.0  | 363.4  | 286.8  | 235.2  | 201.3  | 187.0  | 185.2  | 188.8  | 206.6  | 238.7  |
| 62.5° | 400.8  | 342.0  | 281.4  | 219.1  | 176.4  | 162.1  | 144.3  | 142.5  | 146.1  | 156.7  | 181.7  |
| 65°   | 288.6  | 251.2  | 204.9  | 160.3  | 126.5  | 106.9  | 99.8   | 101.6  | 105.1  | 112.2  | 135.4  |
| 67.5° | 201.3  | 174.6  | 142.5  | 112.2  | 87.3   | 78.4   | 71.3   | 69.5   | 71.3   | 83.7   | 96.2   |
| 70°   | 135.4  | 119.3  | 96.2   | 85.5   | 60.6   | 48.1   | 49.9   | 44.5   | 51.7   | 51.7   | 62.3   |
| 72.5° | 89.1   | 78.4   | 64.1   | 49.9   | 42.8   | 33.9   | 33.9   | 32.1   | 35.6   | 37.4   | 46.3   |
| 75°   | 46.3   | 35.6   | 35.6   | 24.9   | 17.8   | 8.9    | 16.0   | 14.3   | 12.5   | 14.3   | 17.8   |
| 77.5° | 32.1   | 26.7   | 24.9   | 19.6   | 17.8   | 14.3   | 14.3   | 14.3   | 14.3   | 16.0   | 17.8   |
| 80°   | 19.6   | 19.6   | 14.3   | 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: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 | 3318.7 |
| 2.5°  | 3324.1 | 3325.9 | 3325.9 | 3324.1 | 3324.1 | 3320.5 | 3327.6 | 3322.3 | 3324.1 | 3331.2 | 3325.9 |
| 5°    | 3327.6 | 3329.4 | 3329.4 | 3327.6 | 3327.6 | 3327.6 | 3329.4 | 3329.4 | 3327.6 | 3325.9 | 3329.4 |
| 7.5°  | 3334.8 | 3333.0 | 3333.0 | 3329.4 | 3329.4 | 3325.9 | 3329.4 | 3324.1 | 3327.6 | 3324.1 | 3329.4 |
| 10°   | 3325.9 | 3327.6 | 3325.9 | 3324.1 | 3324.1 | 3322.3 | 3322.3 | 3316.9 | 3318.7 | 3313.4 | 3316.9 |
| 12.5° | 3320.5 | 3318.7 | 3318.7 | 3315.2 | 3311.6 | 3308.0 | 3306.3 | 3300.9 | 3300.9 | 3288.4 | 3293.8 |
| 15°   | 3306.3 | 3308.0 | 3302.7 | 3295.6 | 3292.0 | 3283.1 | 3279.5 | 3272.4 | 3265.3 | 3256.4 | 3258.2 |
| 17.5° | 3293.8 | 3288.4 | 3281.3 | 3274.2 | 3259.9 | 3252.8 | 3245.7 | 3235.0 | 3231.4 | 3220.7 | 3217.2 |
| 20°   | 3256.4 | 3252.8 | 3243.9 | 3231.4 | 3222.5 | 3206.5 | 3199.4 | 3188.7 | 3179.8 | 3169.1 | 3163.7 |
| 22.5° | 3208.3 | 3204.7 | 3194.0 | 3181.6 | 3167.3 | 3160.2 | 3153.1 | 3133.5 | 3124.5 | 3113.9 | 3112.1 |
| 25°   | 3147.7 | 3142.4 | 3131.7 | 3117.4 | 3110.3 | 3090.7 | 3083.6 | 3069.3 | 3065.8 | 3055.1 | 3053.3 |
| 27.5° | 3055.1 | 3048.0 | 3035.5 | 3017.7 | 3005.2 | 2992.7 | 2985.6 | 2974.9 | 2971.4 | 2960.7 | 2958.9 |
| 30°   | 2916.2 | 2907.2 | 2882.3 | 2875.2 | 2853.8 | 2841.3 | 2841.3 | 2827.1 | 2828.8 | 2821.7 | 2821.7 |
| 32.5° | 2697.0 | 2682.8 | 2663.2 | 2648.9 | 2634.7 | 2627.6 | 2627.6 | 2622.2 | 2625.8 | 2625.8 | 2629.3 |
| 35°   | 2406.7 | 2387.1 | 2376.4 | 2367.5 | 2367.5 | 2374.6 | 2396.0 | 2401.3 | 2412.0 | 2420.9 | 2428.1 |
| 37.5° | 2034.3 | 2032.6 | 2045.0 | 2055.7 | 2082.4 | 2112.7 | 2150.1 | 2182.2 | 2212.5 | 2233.9 | 2255.2 |
| 40°   | 1631.8 | 1676.3 | 1711.9 | 1761.8 | 1802.7 | 1861.5 | 1929.2 | 1984.5 | 2036.1 | 2073.6 | 2112.7 |
| 42.5° | 1273.7 | 1330.7 | 1405.5 | 1478.5 | 1551.6 | 1631.8 | 1720.8 | 1797.4 | 1865.1 | 1916.8 | 1957.7 |
| 45°   | 992.2  | 1070.6 | 1161.5 | 1254.1 | 1348.5 | 1448.3 | 1540.9 | 1619.3 | 1690.6 | 1744.0 | 1785.0 |
| 47.5° | 799.8  | 885.4  | 988.7  | 1090.2 | 1197.1 | 1302.2 | 1405.5 | 1473.2 | 1532.0 | 1574.7 | 1612.2 |
| 50°   | 660.9  | 751.8  | 860.4  | 976.2  | 1083.1 | 1188.2 | 1277.3 | 1343.2 | 1391.3 | 1428.7 | 1451.8 |
| 52.5° | 552.2  | 648.4  | 764.2  | 880.0  | 986.9  | 1083.1 | 1163.3 | 1213.1 | 1252.3 | 1279.0 | 1300.4 |
| 55°   | 456.0  | 548.7  | 657.3  | 766.0  | 871.1  | 961.9  | 1027.8 | 1065.3 | 1095.5 | 1111.6 | 1124.0 |
| 57.5° | 372.3  | 457.8  | 557.6  | 657.3  | 748.2  | 823.0  | 874.7  | 912.1  | 926.3  | 938.8  | 937.0  |
| 60°   | 292.2  | 372.3  | 463.2  | 548.7  | 627.1  | 687.6  | 725.0  | 746.4  | 757.1  | 762.4  | 758.9  |
| 62.5° | 229.8  | 302.8  | 372.3  | 447.1  | 504.1  | 555.8  | 591.4  | 591.4  | 596.8  | 598.5  | 603.9  |
| 65°   | 171.0  | 226.2  | 286.8  | 342.0  | 388.3  | 422.2  | 441.8  | 447.1  | 454.3  | 452.5  | 448.9  |
| 67.5° | 126.5  | 167.5  | 212.0  | 252.9  | 285.0  | 306.4  | 320.6  | 333.1  | 331.4  | 327.8  | 326.0  |
| 70°   | 87.3   | 114.0  | 153.2  | 178.1  | 201.3  | 222.7  | 226.2  | 228.0  | 229.8  | 231.6  | 228.0  |
| 72.5° | 60.6   | 80.2   | 101.6  | 122.9  | 137.2  | 146.1  | 155.0  | 156.7  | 156.7  | 156.7  | 155.0  |
| 75°   | 30.3   | 41.0   | 60.6   | 69.5   | 81.9   | 85.5   | 92.6   | 92.6   | 98.0   | 90.8   | 89.1   |
| 77.5° | 26.7   | 32.1   | 42.8   | 49.9   | 55.2   | 60.6   | 62.3   | 67.7   | 65.9   | 62.3   | 64.1   |
| 80°   | 16.0   | 19.6   | 26.7   | 30.3   | 37.4   | 39.2   | 41.0   | 42.8   | 41.0   | 42.8   | 42.8   |
| 82.5° | 12.5   | 14.3   | 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   | 21.4   | 14.3   | 14.3   | 17.8   | 21.4   | 17.8   | 17.8   | 21.4   |
| 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: P249208

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 3318.7 | 3318.7 | 3318.7 | 3318.7 |
| 2.5°  | 3324.1 | 3327.6 | 3322.3 | 3320.5 |
| 5°    | 3329.4 | 3329.4 | 3325.9 | 3325.9 |
| 7.5°  | 3329.4 | 3329.4 | 3324.1 | 3320.5 |
| 10°   | 3315.2 | 3315.2 | 3309.8 | 3306.3 |
| 12.5° | 3288.4 | 3288.4 | 3286.6 | 3281.3 |
| 15°   | 3254.6 | 3254.6 | 3247.5 | 3242.1 |
| 17.5° | 3208.3 | 3211.9 | 3203.0 | 3203.0 |
| 20°   | 3158.4 | 3156.6 | 3149.5 | 3145.9 |
| 22.5° | 3106.8 | 3103.2 | 3101.4 | 3090.7 |
| 25°   | 3051.5 | 3048.0 | 3042.6 | 3037.3 |
| 27.5° | 2957.1 | 2955.3 | 2950.0 | 2942.9 |
| 30°   | 2812.8 | 2811.0 | 2803.9 | 2803.9 |
| 32.5° | 2625.8 | 2624.0 | 2616.9 | 2618.7 |
| 35°   | 2431.6 | 2438.7 | 2435.2 | 2428.1 |
| 37.5° | 2269.5 | 2274.8 | 2278.4 | 2274.8 |
| 40°   | 2134.1 | 2150.1 | 2151.9 | 2155.5 |
| 42.5° | 1989.8 | 2011.2 | 2018.3 | 2021.9 |
| 45°   | 1817.0 | 1836.6 | 1852.7 | 1849.1 |
| 47.5° | 1640.6 | 1654.9 | 1669.1 | 1658.5 |
| 50°   | 1471.4 | 1480.3 | 1485.7 | 1485.7 |
| 52.5° | 1311.1 | 1311.1 | 1309.3 | 1311.1 |
| 55°   | 1127.6 | 1127.6 | 1120.5 | 1124.0 |
| 57.5° | 935.2  | 938.8  | 933.4  | 924.5  |
| 60°   | 757.1  | 748.2  | 744.6  | 739.3  |
| 62.5° | 589.7  | 589.7  | 577.2  | 593.2  |
| 65°   | 441.8  | 436.4  | 431.1  | 429.3  |
| 67.5° | 320.6  | 318.9  | 313.5  | 311.7  |
| 70°   | 226.2  | 219.1  | 217.3  | 213.8  |
| 72.5° | 151.4  | 151.4  | 147.8  | 147.8  |
| 75°   | 92.6   | 83.7   | 81.9   | 83.7   |
| 77.5° | 64.1   | 62.3   | 62.3   | 60.6   |
| 80°   | 42.8   | 41.0   | 44.5   | 39.2   |
| 82.5° | 26.7   | 28.5   | 26.7   | 28.5   |
| 85°   | 17.8   | 21.4   | 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)