

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: FAIL-SAFE

Report Number: P861214

Luminaire Tested: **8APVTLD-SL3C3 MID POWER 3500K 277V**

Issue Date: 1/11/2023

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P861214  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( NTCLR22090026)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8APVTLTD-SL3C3 MID POWER 3500K 277V  
Description: MID POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No. Condition Description

**Summary**

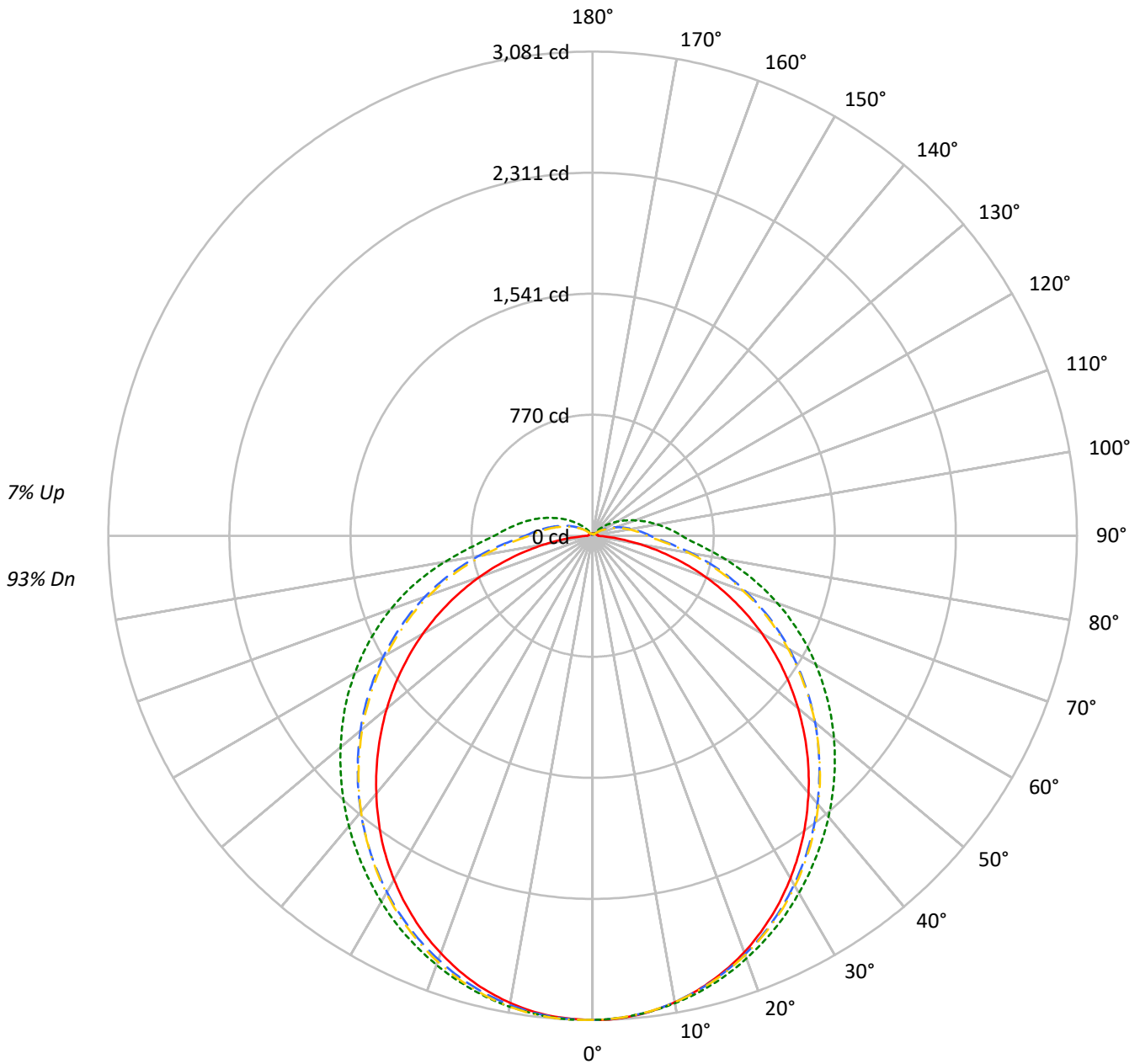
Lumens per Lamp: N/A  
Luminaire Lumens: 10460.7 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 77.9  
Input Voltage (V): 277  
Input Current (A<sub>in</sub>): 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: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

### Luminous Intensity Polar Plot





TEST NUMBER: P861214

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 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 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 95 | 95 | 95 | 93 |
| 1   | 105 | 100 | 95  | 91  | 102 | 97  | 92  | 88  | 91  | 88  | 84  | 86  | 83  | 80  | 81 | 79 | 77 | 77 | 77 | 77 | 74 |
| 2   | 95  | 86  | 79  | 73  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 74  | 70  | 66  | 70 | 66 | 63 | 63 | 63 | 63 | 60 |
| 3   | 86  | 75  | 67  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 59  | 55  | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 4   | 79  | 66  | 57  | 50  | 76  | 65  | 56  | 49  | 61  | 54  | 48  | 58  | 51  | 46  | 55 | 49 | 45 | 45 | 45 | 45 | 42 |
| 5   | 72  | 59  | 50  | 43  | 70  | 58  | 49  | 42  | 55  | 47  | 41  | 52  | 45  | 40  | 49 | 43 | 39 | 39 | 39 | 39 | 37 |
| 6   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 42  | 36  | 47  | 40  | 35  | 44 | 39 | 34 | 34 | 34 | 34 | 32 |
| 7   | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 43  | 36  | 31  | 41 | 35 | 30 | 30 | 30 | 30 | 28 |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 41  | 33  | 28  | 39  | 32  | 28  | 37 | 31 | 27 | 27 | 27 | 27 | 25 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 38  | 30  | 25  | 36  | 29  | 25  | 34 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10  | 50  | 37  | 29  | 24  | 49  | 36  | 29  | 23  | 35  | 28  | 23  | 33  | 27  | 22  | 32 | 26 | 22 | 22 | 22 | 22 | 20 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 12435 | 12435 | 12435 | 12435 |
| 5°  | 12411 | 12143 | 12414 | 12191 |
| 10° | 12331 | 11855 | 12352 | 11947 |
| 15° | 12214 | 11569 | 12243 | 11693 |
| 20° | 12068 | 11270 | 12094 | 11441 |
| 25° | 11879 | 10982 | 11917 | 11196 |
| 30° | 11662 | 10691 | 11705 | 10954 |
| 35° | 11420 | 10418 | 11468 | 10714 |
| 40° | 11160 | 10168 | 11184 | 10506 |
| 45° | 10886 | 9928  | 10895 | 10309 |
| 50° | 10580 | 9693  | 10602 | 10127 |
| 55° | 10246 | 9467  | 10269 | 9986  |
| 60° | 9861  | 9240  | 9892  | 9842  |
| 65° | 9371  | 8997  | 9403  | 9701  |
| 70° | 8739  | 8742  | 8791  | 9563  |
| 75° | 7857  | 8467  | 7901  | 9402  |
| 80° | 6622  | 8223  | 6688  | 9163  |
| 85° | 5008  | 8188  | 5045  | 9168  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 291.4   | 2.8       |
| 10°-20°   | 832.9   | 8.0       |
| 20°-30°   | 1259.7  | 12.0      |
| 30°-40°   | 1522.3  | 14.6      |
| 40°-50°   | 1601.7  | 15.3      |
| 50°-60°   | 1504.4  | 14.4      |
| 60°-70°   | 1254.3  | 12.0      |
| 70°-80°   | 894.6   | 8.6       |
| 80°-90°   | 524.0   | 5.0       |
| 90°-100°  | 326.9   | 3.1       |
| 100°-110° | 214.9   | 2.1       |
| 110°-120° | 126.7   | 1.2       |
| 120°-130° | 64.7    | 0.6       |
| 130°-140° | 25.1    | 0.2       |
| 140°-150° | 8.3     | 0.1       |
| 150°-160° | 4.7     | 0.0       |
| 160°-170° | 3.0     | 0.0       |
| 170°-180° | 1.1     | 0.0       |
| 0°-30°    | 2384.0  | 22.8      |
| 0°-40°    | 3906.3  | 37.3      |
| 0°-60°    | 7012.4  | 67.0      |
| 0°-90°    | 9685.3  | 92.6      |
| 90°-120°  | 668.5   | 6.4       |
| 90°-150°  | 766.5   | 7.3       |
| 90°-180°  | 775.0   | 7.4       |
| 0°-180°   | 10460.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3081 | 3081 | 3081 | 3081 | 3081 |      |
| 5°   | 3066 | 3062 | 3066 | 3074 | 3066 | 291  |
| 15°  | 2931 | 2954 | 2938 | 2986 | 2931 | 827  |
| 25°  | 2680 | 2753 | 2689 | 2807 | 2680 | 1234 |
| 35°  | 2334 | 2484 | 2344 | 2555 | 2334 | 1460 |
| 45°  | 1927 | 2174 | 1928 | 2258 | 1927 | 1486 |
| 55°  | 1478 | 1826 | 1481 | 1926 | 1478 | 1321 |
| 65°  | 1003 | 1447 | 1006 | 1560 | 1003 | 992  |
| 75°  | 523  | 1050 | 526  | 1165 | 523  | 555  |
| 85°  | 121  | 682  | 122  | 764  | 121  | 137  |
| 90°  | 39   | 568  | 33   | 626  | 39   | 23   |
| 95°  | 33   | 490  | 27   | 539  | 33   | 27   |
| 105° | 28   | 349  | 24   | 397  | 28   | 29   |
| 115° | 23   | 231  | 21   | 268  | 23   | 23   |
| 125° | 18   | 134  | 17   | 162  | 18   | 16   |
| 135° | 14   | 59   | 12   | 76   | 14   | 11   |
| 145° | 11   | 11   | 9    | 18   | 11   | 7    |
| 155° | 9    | 8    | 9    | 12   | 9    | 4    |
| 165° | 10   | 8    | 12   | 11   | 10   | 3    |
| 175° | 12   | 9    | 15   | 10   | 12   | 1    |
| 180° | 12   | 12   | 12   | 12   | 12   |      |



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**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°  | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 |
| 1°  | 3080.6 | 3080.6 | 3080.4 | 3079.4 | 3078.8 | 3078.6 | 3079.2 | 3079.0 | 3079.8 | 3080.6 | 3080.6 |
| 2°  | 3080.2 | 3079.6 | 3078.0 | 3076.8 | 3076.8 | 3075.6 | 3076.4 | 3076.8 | 3077.8 | 3079.4 | 3079.4 |
| 3°  | 3076.6 | 3075.8 | 3073.8 | 3072.5 | 3073.4 | 3071.3 | 3073.2 | 3074.0 | 3075.4 | 3077.2 | 3077.6 |
| 4°  | 3071.7 | 3070.9 | 3068.9 | 3066.9 | 3068.7 | 3066.3 | 3067.7 | 3069.1 | 3071.7 | 3073.0 | 3075.0 |
| 5°  | 3065.7 | 3063.9 | 3063.3 | 3060.7 | 3062.3 | 3059.9 | 3061.9 | 3062.9 | 3066.5 | 3068.1 | 3070.7 |
| 6°  | 3058.1 | 3056.1 | 3055.9 | 3053.5 | 3055.9 | 3052.7 | 3054.9 | 3055.7 | 3060.1 | 3061.5 | 3064.9 |
| 7°  | 3049.0 | 3046.6 | 3047.4 | 3045.2 | 3048.6 | 3045.2 | 3046.8 | 3046.8 | 3051.8 | 3054.1 | 3058.5 |
| 8°  | 3038.2 | 3035.8 | 3037.6 | 3035.4 | 3040.0 | 3036.2 | 3037.4 | 3036.4 | 3042.0 | 3044.8 | 3050.8 |
| 9°  | 3026.7 | 3023.7 | 3025.7 | 3026.1 | 3030.1 | 3026.1 | 3025.9 | 3024.7 | 3030.9 | 3034.6 | 3041.8 |
| 10° | 3013.9 | 3010.8 | 3013.1 | 3014.9 | 3019.9 | 3015.1 | 3014.1 | 3012.5 | 3019.1 | 3022.9 | 3031.9 |
| 11° | 3000.0 | 2997.0 | 2999.6 | 3002.2 | 3008.8 | 3003.2 | 3000.6 | 2998.4 | 3005.0 | 3010.0 | 3020.3 |
| 12° | 2984.7 | 2982.1 | 2984.9 | 2989.7 | 2997.0 | 2990.9 | 2987.3 | 2983.7 | 2990.1 | 2996.0 | 3008.2 |
| 13° | 2968.4 | 2966.2 | 2970.4 | 2975.5 | 2984.1 | 2977.1 | 2972.5 | 2967.2 | 2973.9 | 2981.1 | 2994.4 |
| 14° | 2949.9 | 2948.1 | 2954.0 | 2961.0 | 2969.4 | 2961.8 | 2956.4 | 2949.5 | 2957.2 | 2965.6 | 2980.1 |
| 15° | 2930.9 | 2930.4 | 2935.7 | 2946.3 | 2953.8 | 2946.5 | 2940.1 | 2929.6 | 2937.9 | 2947.7 | 2964.4 |
| 16° | 2911.2 | 2911.2 | 2916.6 | 2929.2 | 2937.3 | 2929.8 | 2922.0 | 2908.7 | 2917.4 | 2927.2 | 2947.7 |
| 17° | 2890.7 | 2891.3 | 2897.1 | 2911.6 | 2920.2 | 2912.2 | 2902.1 | 2887.6 | 2896.5 | 2907.1 | 2930.0 |
| 18° | 2868.1 | 2870.2 | 2876.8 | 2892.3 | 2901.9 | 2892.9 | 2881.2 | 2865.1 | 2873.8 | 2885.8 | 2910.8 |
| 19° | 2844.8 | 2847.2 | 2856.5 | 2873.8 | 2882.8 | 2872.0 | 2860.3 | 2842.0 | 2850.3 | 2863.5 | 2890.3 |
| 20° | 2820.1 | 2822.3 | 2834.8 | 2852.7 | 2862.3 | 2851.9 | 2838.8 | 2817.5 | 2826.1 | 2840.2 | 2869.3 |
| 21° | 2794.2 | 2798.0 | 2811.7 | 2832.2 | 2841.4 | 2830.4 | 2816.1 | 2792.6 | 2800.6 | 2815.7 | 2848.4 |
| 22° | 2766.8 | 2771.3 | 2787.1 | 2810.7 | 2820.5 | 2808.4 | 2792.6 | 2767.6 | 2774.1 | 2790.6 | 2826.3 |
| 23° | 2738.9 | 2744.3 | 2762.2 | 2786.9 | 2798.2 | 2786.1 | 2768.4 | 2742.7 | 2746.7 | 2764.6 | 2802.6 |
| 24° | 2710.0 | 2716.0 | 2735.9 | 2763.4 | 2776.3 | 2762.6 | 2743.1 | 2715.6 | 2718.0 | 2737.5 | 2778.9 |
| 25° | 2680.2 | 2687.5 | 2709.6 | 2739.7 | 2753.2 | 2738.9 | 2717.0 | 2687.9 | 2688.7 | 2709.6 | 2754.0 |
| 26° | 2649.7 | 2658.3 | 2681.2 | 2714.8 | 2729.7 | 2713.6 | 2690.3 | 2657.7 | 2657.7 | 2681.4 | 2728.3 |
| 27° | 2617.9 | 2627.6 | 2653.1 | 2689.1 | 2704.1 | 2688.1 | 2663.5 | 2628.4 | 2627.0 | 2651.7 | 2701.5 |
| 28° | 2584.5 | 2595.8 | 2623.7 | 2662.7 | 2678.6 | 2661.5 | 2633.8 | 2596.4 | 2594.0 | 2621.1 | 2674.6 |
| 29° | 2551.6 | 2563.2 | 2594.0 | 2635.4 | 2652.3 | 2634.6 | 2604.2 | 2564.2 | 2561.0 | 2589.8 | 2645.8 |
| 30° | 2517.2 | 2529.9 | 2563.6 | 2606.9 | 2624.9 | 2607.3 | 2574.3 | 2532.1 | 2526.5 | 2557.2 | 2617.3 |
| 31° | 2482.0 | 2495.9 | 2532.3 | 2578.3 | 2598.2 | 2578.9 | 2543.3 | 2497.9 | 2491.9 | 2525.5 | 2587.4 |
| 32° | 2446.1 | 2460.9 | 2500.7 | 2549.6 | 2570.5 | 2549.8 | 2511.4 | 2463.3 | 2456.3 | 2492.1 | 2558.0 |
| 33° | 2409.7 | 2425.6 | 2467.6 | 2520.0 | 2542.3 | 2519.4 | 2478.8 | 2427.8 | 2419.7 | 2457.5 | 2526.1 |
| 34° | 2371.7 | 2390.0 | 2435.2 | 2489.7 | 2513.2 | 2489.7 | 2446.5 | 2391.8 | 2382.5 | 2424.0 | 2495.1 |
| 35° | 2334.5 | 2353.0 | 2401.4 | 2459.9 | 2484.4 | 2459.9 | 2412.9 | 2354.6 | 2344.2 | 2388.4 | 2462.5 |
| 36° | 2295.9 | 2316.2 | 2367.1 | 2428.6 | 2455.3 | 2428.4 | 2378.1 | 2317.0 | 2304.4 | 2352.2 | 2430.6 |
| 37° | 2256.5 | 2278.0 | 2334.1 | 2397.6 | 2426.2 | 2397.6 | 2343.8 | 2278.8 | 2264.0 | 2315.6 | 2397.0 |
| 38° | 2217.1 | 2239.8 | 2298.1 | 2367.3 | 2396.0 | 2366.7 | 2308.2 | 2238.6 | 2223.6 | 2278.4 | 2363.1 |
| 39° | 2176.5 | 2200.7 | 2262.4 | 2336.3 | 2366.3 | 2334.5 | 2271.6 | 2198.2 | 2183.6 | 2240.2 | 2329.3 |
| 40° | 2136.5 | 2160.7 | 2225.2 | 2304.6 | 2334.5 | 2301.9 | 2234.4 | 2158.0 | 2141.0 | 2201.7 | 2293.7 |
| 41° | 2096.7 | 2121.3 | 2189.2 | 2271.0 | 2303.0 | 2270.0 | 2197.0 | 2118.0 | 2099.8 | 2163.7 | 2259.1 |
| 42° | 2054.7 | 2080.9 | 2152.0 | 2237.8 | 2271.4 | 2236.6 | 2159.0 | 2077.4 | 2057.3 | 2123.3 | 2223.6 |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 1926.9 | 1958.3 | 2039.1 | 2137.3 | 2173.9 | 2134.9 | 2043.3 | 1951.2 | 1928.4 | 2001.6 | 2114.0 |
| 46° | 1883.4 | 1917.1 | 2001.6 | 2102.4 | 2141.2 | 2100.0 | 2004.3 | 1909.1 | 1885.4 | 1959.8 | 2077.4 |
| 47° | 1839.0 | 1874.0 | 1963.6 | 2066.6 | 2106.2 | 2064.6 | 1964.3 | 1866.5 | 1841.6 | 1918.9 | 2040.3 |
| 48° | 1794.8 | 1831.2 | 1925.3 | 2032.0 | 2072.6 | 2029.8 | 1925.0 | 1823.3 | 1797.9 | 1877.8 | 2003.1 |
| 49° | 1750.0 | 1787.6 | 1886.6 | 1996.4 | 2038.7 | 1994.2 | 1884.9 | 1779.3 | 1753.3 | 1834.8 | 1965.1 |
| 50° | 1705.8 | 1744.6 | 1847.2 | 1961.2 | 2003.5 | 1957.3 | 1844.8 | 1734.9 | 1709.2 | 1792.5 | 1928.2 |
| 51° | 1660.0 | 1701.2 | 1808.3 | 1924.4 | 1969.2 | 1921.8 | 1804.6 | 1691.9 | 1664.4 | 1749.3 | 1890.4 |
| 52° | 1614.9 | 1656.6 | 1768.6 | 1888.8 | 1933.6 | 1884.6 | 1763.4 | 1647.0 | 1618.6 | 1705.8 | 1851.3 |
| 53° | 1569.6 | 1613.0 | 1729.2 | 1852.4 | 1897.7 | 1847.3 | 1722.5 | 1602.7 | 1573.1 | 1662.3 | 1812.8 |
| 54° | 1523.6 | 1568.5 | 1689.4 | 1814.4 | 1861.4 | 1809.8 | 1681.4 | 1558.1 | 1527.0 | 1619.5 | 1773.5 |
| 55° | 1477.6 | 1523.9 | 1648.9 | 1777.9 | 1825.6 | 1772.1 | 1640.4 | 1512.9 | 1480.9 | 1575.3 | 1734.0 |
| 56° | 1431.3 | 1479.8 | 1608.3 | 1740.0 | 1788.5 | 1734.7 | 1598.8 | 1467.9 | 1434.6 | 1530.9 | 1695.2 |
| 57° | 1384.8 | 1434.9 | 1567.8 | 1701.8 | 1751.4 | 1696.3 | 1557.6 | 1422.7 | 1388.1 | 1487.3 | 1655.6 |
| 58° | 1338.2 | 1389.5 | 1527.6 | 1662.2 | 1715.9 | 1657.7 | 1516.2 | 1377.4 | 1341.0 | 1442.6 | 1616.0 |
| 59° | 1291.1 | 1345.0 | 1487.3 | 1623.5 | 1677.8 | 1618.6 | 1475.5 | 1331.4 | 1294.2 | 1398.6 | 1575.4 |
| 60° | 1243.5 | 1300.7 | 1446.7 | 1584.2 | 1640.2 | 1579.1 | 1433.8 | 1286.8 | 1247.4 | 1354.7 | 1536.4 |
| 61° | 1195.2 | 1255.2 | 1405.8 | 1544.0 | 1602.8 | 1540.0 | 1392.2 | 1240.3 | 1199.1 | 1310.2 | 1497.0 |
| 62° | 1147.1 | 1210.9 | 1365.1 | 1506.0 | 1563.8 | 1500.3 | 1350.8 | 1194.2 | 1150.9 | 1266.3 | 1456.7 |
| 63° | 1099.3 | 1166.4 | 1324.4 | 1466.1 | 1526.1 | 1460.6 | 1310.0 | 1148.9 | 1102.9 | 1222.3 | 1417.2 |
| 64° | 1051.9 | 1121.4 | 1284.3 | 1428.4 | 1487.0 | 1421.2 | 1268.5 | 1103.9 | 1055.1 | 1177.2 | 1377.5 |
| 65° | 1003.1 | 1077.3 | 1243.7 | 1390.2 | 1447.0 | 1380.6 | 1226.4 | 1058.7 | 1006.5 | 1133.0 | 1336.6 |
| 66° | 954.5  | 1032.1 | 1202.2 | 1349.9 | 1409.3 | 1341.2 | 1185.0 | 1013.8 | 958.2  | 1089.7 | 1297.5 |
| 67° | 906.4  | 987.7  | 1160.1 | 1311.0 | 1368.5 | 1301.3 | 1142.8 | 969.1  | 909.9  | 1045.0 | 1257.1 |
| 68° | 858.1  | 942.7  | 1117.9 | 1270.3 | 1330.3 | 1261.3 | 1101.3 | 924.4  | 862.1  | 1000.6 | 1216.5 |
| 69° | 810.4  | 898.4  | 1077.2 | 1230.9 | 1290.4 | 1221.2 | 1058.9 | 879.4  | 813.3  | 956.1  | 1175.9 |
| 70° | 761.7  | 855.0  | 1035.9 | 1189.8 | 1249.5 | 1181.3 | 1016.8 | 835.8  | 766.2  | 912.5  | 1135.6 |
| 71° | 713.4  | 810.6  | 995.2  | 1148.6 | 1209.7 | 1140.3 | 975.6  | 791.2  | 716.8  | 868.7  | 1094.4 |
| 72° | 666.0  | 767.7  | 954.4  | 1107.1 | 1170.1 | 1100.9 | 934.9  | 747.9  | 669.6  | 825.5  | 1054.4 |
| 73° | 617.9  | 724.3  | 914.4  | 1065.4 | 1129.8 | 1060.0 | 894.5  | 704.6  | 620.8  | 783.3  | 1013.8 |
| 74° | 570.4  | 683.4  | 874.5  | 1024.7 | 1089.5 | 1019.9 | 853.9  | 661.5  | 573.6  | 740.3  | 973.3  |
| 75° | 523.4  | 641.0  | 834.3  | 983.6  | 1049.5 | 980.7  | 813.9  | 619.0  | 526.3  | 698.1  | 932.9  |
| 76° | 477.6  | 600.0  | 793.6  | 944.1  | 1009.1 | 941.3  | 773.9  | 577.0  | 479.8  | 657.4  | 892.4  |
| 77° | 432.0  | 558.8  | 754.1  | 905.5  | 970.5  | 902.4  | 735.1  | 537.3  | 434.7  | 617.3  | 852.5  |
| 78° | 387.1  | 518.7  | 713.8  | 867.1  | 931.2  | 863.2  | 695.3  | 496.7  | 389.8  | 577.6  | 812.4  |
| 79° | 343.6  | 480.0  | 676.3  | 829.1  | 892.6  | 824.8  | 657.5  | 459.3  | 345.7  | 537.9  | 772.8  |
| 80° | 301.7  | 443.0  | 638.7  | 791.3  | 855.3  | 787.8  | 620.6  | 420.9  | 304.7  | 499.2  | 735.9  |
| 81° | 260.6  | 406.5  | 601.7  | 754.3  | 817.1  | 750.0  | 583.2  | 384.1  | 264.6  | 461.5  | 697.1  |
| 82° | 221.5  | 371.8  | 566.5  | 718.0  | 782.6  | 714.6  | 549.0  | 348.8  | 225.6  | 424.4  | 660.3  |
| 83° | 184.7  | 339.0  | 532.0  | 683.4  | 746.2  | 680.5  | 514.0  | 314.8  | 188.1  | 389.1  | 624.8  |
| 84° | 151.6  | 306.8  | 500.1  | 650.2  | 713.6  | 647.9  | 483.1  | 283.2  | 153.7  | 354.6  | 591.4  |
| 85° | 121.0  | 278.2  | 472.1  | 618.7  | 682.0  | 617.2  | 453.1  | 254.0  | 121.9  | 322.6  | 558.9  |
| 86° | 95.0   | 251.6  | 445.8  | 591.2  | 653.0  | 588.0  | 425.7  | 227.1  | 94.0   | 292.5  | 527.1  |
| 87° | 72.8   | 228.8  | 420.2  | 565.4  | 625.5  | 561.8  | 400.4  | 204.3  | 71.8   | 266.2  | 497.2  |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180° | 202.5° | 225°  |
|------|------|-------|-------|-------|-------|--------|-------|--------|------|--------|-------|
| 90°  | 38.8 | 180.6 | 367.5 | 507.1 | 568.4 | 505.9  | 348.5 | 155.7  | 32.6 | 207.2  | 430.0 |
| 91°  | 36.8 | 171.2 | 354.9 | 492.4 | 551.5 | 489.4  | 334.6 | 146.2  | 30.3 | 194.9  | 413.4 |
| 92°  | 35.8 | 161.7 | 342.3 | 477.8 | 535.7 | 475.4  | 322.7 | 137.4  | 29.3 | 184.0  | 398.5 |
| 93°  | 34.8 | 152.6 | 330.0 | 463.0 | 520.4 | 460.2  | 311.1 | 129.0  | 28.5 | 173.8  | 384.0 |
| 94°  | 34.0 | 144.2 | 318.0 | 449.4 | 503.9 | 445.7  | 299.5 | 121.0  | 28.1 | 163.8  | 369.8 |
| 95°  | 33.4 | 135.7 | 305.7 | 435.5 | 489.8 | 432.1  | 287.7 | 113.5  | 27.1 | 154.0  | 356.0 |
| 96°  | 32.6 | 127.9 | 294.4 | 422.9 | 474.4 | 417.2  | 276.5 | 106.1  | 26.5 | 145.1  | 342.1 |
| 97°  | 32.0 | 120.4 | 282.8 | 409.2 | 460.5 | 404.0  | 266.5 | 99.4   | 26.3 | 136.2  | 328.6 |
| 98°  | 31.2 | 113.6 | 272.2 | 396.2 | 445.1 | 390.6  | 255.8 | 92.9   | 26.2 | 128.1  | 316.2 |
| 99°  | 30.7 | 106.7 | 261.4 | 383.2 | 430.7 | 377.9  | 245.3 | 86.9   | 26.0 | 119.7  | 303.5 |
| 100° | 30.3 | 100.4 | 250.4 | 370.3 | 416.1 | 365.1  | 234.3 | 81.0   | 25.9 | 112.5  | 291.2 |
| 101° | 29.8 | 94.2  | 239.8 | 357.7 | 402.9 | 352.1  | 224.3 | 75.9   | 25.7 | 105.3  | 279.5 |
| 102° | 29.4 | 89.1  | 229.8 | 345.1 | 388.2 | 338.6  | 214.6 | 70.4   | 25.3 | 98.6   | 268.3 |
| 103° | 28.9 | 83.4  | 219.8 | 332.0 | 375.9 | 326.4  | 205.6 | 65.5   | 24.5 | 92.0   | 257.3 |
| 104° | 28.3 | 78.1  | 210.2 | 319.7 | 361.4 | 313.6  | 196.1 | 61.1   | 24.1 | 86.2   | 246.0 |
| 105° | 27.7 | 73.5  | 201.2 | 307.9 | 349.2 | 302.5  | 187.5 | 56.8   | 23.7 | 80.5   | 235.1 |
| 106° | 27.1 | 68.7  | 191.9 | 295.7 | 336.0 | 290.7  | 178.2 | 52.3   | 23.7 | 74.8   | 224.7 |
| 107° | 26.5 | 64.6  | 183.4 | 284.2 | 323.1 | 280.2  | 169.6 | 48.4   | 23.1 | 69.6   | 214.1 |
| 108° | 25.9 | 60.1  | 174.7 | 273.2 | 311.0 | 269.3  | 160.3 | 44.4   | 22.7 | 65.0   | 204.2 |
| 109° | 25.5 | 55.8  | 166.4 | 261.9 | 298.9 | 258.6  | 152.1 | 41.1   | 22.5 | 60.3   | 194.3 |
| 110° | 25.1 | 51.7  | 158.2 | 250.8 | 286.5 | 247.4  | 144.1 | 37.1   | 22.4 | 55.4   | 184.7 |
| 111° | 24.7 | 47.8  | 150.1 | 240.4 | 275.6 | 236.7  | 136.7 | 33.9   | 22.3 | 51.0   | 175.7 |
| 112° | 24.1 | 43.9  | 142.5 | 229.5 | 263.9 | 225.5  | 129.2 | 30.8   | 22.2 | 46.7   | 166.8 |
| 113° | 24.1 | 40.5  | 134.8 | 219.3 | 252.8 | 215.2  | 122.0 | 27.6   | 22.1 | 42.4   | 158.2 |
| 114° | 23.5 | 37.3  | 127.3 | 209.3 | 241.7 | 204.5  | 114.6 | 25.2   | 21.9 | 38.7   | 149.6 |
| 115° | 23.1 | 33.8  | 120.0 | 199.2 | 230.6 | 194.1  | 107.8 | 23.0   | 21.0 | 35.0   | 141.4 |
| 116° | 22.7 | 31.2  | 113.2 | 189.6 | 220.5 | 183.9  | 101.0 | 21.0   | 20.2 | 31.4   | 133.2 |
| 117° | 22.3 | 28.7  | 106.7 | 180.3 | 209.2 | 175.1  | 94.7  | 20.2   | 20.2 | 28.1   | 125.5 |
| 118° | 21.7 | 26.3  | 99.8  | 171.4 | 199.8 | 166.2  | 88.2  | 19.5   | 19.4 | 25.3   | 117.5 |
| 119° | 21.3 | 24.5  | 93.6  | 162.3 | 189.7 | 157.6  | 82.0  | 19.0   | 19.2 | 22.5   | 110.1 |
| 120° | 20.9 | 23.9  | 87.2  | 153.8 | 180.0 | 149.0  | 75.9  | 18.7   | 18.8 | 20.1   | 103.2 |
| 121° | 20.2 | 23.5  | 81.1  | 145.1 | 170.3 | 140.3  | 69.7  | 18.4   | 18.8 | 18.8   | 96.3  |
| 122° | 19.6 | 23.1  | 75.1  | 136.6 | 161.8 | 132.1  | 64.8  | 18.1   | 18.6 | 18.4   | 89.5  |
| 123° | 19.0 | 22.3  | 69.5  | 128.9 | 152.0 | 123.6  | 59.0  | 17.3   | 17.6 | 18.0   | 82.3  |
| 124° | 18.0 | 22.3  | 64.3  | 120.7 | 143.5 | 116.0  | 53.8  | 16.9   | 17.0 | 17.4   | 76.3  |
| 125° | 17.8 | 21.7  | 58.7  | 113.0 | 133.9 | 108.0  | 48.6  | 16.7   | 16.6 | 17.2   | 69.9  |
| 126° | 17.2 | 20.8  | 53.4  | 105.2 | 126.2 | 100.4  | 43.4  | 16.1   | 16.0 | 16.6   | 64.1  |
| 127° | 16.8 | 20.6  | 48.2  | 98.0  | 117.8 | 93.0   | 38.9  | 15.9   | 15.4 | 16.2   | 58.6  |
| 128° | 16.4 | 20.2  | 43.5  | 90.8  | 109.7 | 85.7   | 34.7  | 15.5   | 14.9 | 15.8   | 52.6  |
| 129° | 15.8 | 19.6  | 38.7  | 83.7  | 101.8 | 78.4   | 29.7  | 15.3   | 14.3 | 15.6   | 47.2  |
| 130° | 15.8 | 19.2  | 34.1  | 76.9  | 94.5  | 72.0   | 26.0  | 15.3   | 13.8 | 15.4   | 42.1  |
| 131° | 15.2 | 18.8  | 30.1  | 70.3  | 86.1  | 65.6   | 22.2  | 14.1   | 13.4 | 15.2   | 36.5  |
| 132° | 14.8 | 18.2  | 26.0  | 64.1  | 79.8  | 59.3   | 18.9  | 13.7   | 12.7 | 14.2   | 31.9  |





TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 135° | 13.6 | 16.6  | 17.5 | 46.1  | 58.9 | 41.9   | 13.2 | 12.5   | 11.9 | 13.4   | 19.1 |
| 136° | 13.4 | 16.2  | 17.1 | 40.9  | 52.5 | 36.4   | 12.8 | 12.5   | 10.7 | 13.1   | 15.3 |
| 137° | 12.8 | 15.8  | 16.3 | 35.7  | 46.4 | 31.7   | 12.3 | 12.7   | 10.3 | 12.8   | 13.4 |
| 138° | 12.5 | 15.4  | 16.1 | 31.0  | 40.4 | 26.9   | 11.9 | 12.5   | 9.9  | 12.5   | 12.8 |
| 139° | 12.3 | 15.0  | 15.3 | 25.9  | 34.7 | 22.3   | 11.5 | 11.3   | 9.9  | 12.2   | 12.2 |
| 140° | 12.1 | 14.4  | 15.0 | 21.7  | 29.3 | 18.4   | 11.0 | 10.7   | 9.3  | 11.9   | 12.0 |
| 141° | 11.5 | 14.2  | 14.8 | 18.0  | 24.2 | 14.5   | 10.6 | 10.5   | 9.2  | 11.6   | 11.6 |
| 142° | 11.4 | 13.8  | 14.4 | 15.3  | 19.4 | 12.1   | 10.2 | 10.1   | 9.1  | 11.2   | 10.8 |
| 143° | 11.2 | 13.2  | 13.8 | 14.5  | 15.1 | 11.7   | 10.1 | 9.7    | 9.1  | 10.8   | 10.2 |
| 144° | 11.1 | 13.0  | 13.4 | 14.3  | 12.3 | 11.3   | 10.1 | 9.3    | 9.1  | 10.5   | 9.8  |
| 145° | 10.9 | 12.8  | 13.2 | 14.3  | 11.1 | 11.1   | 10.0 | 9.2    | 9.1  | 10.3   | 9.6  |
| 146° | 10.7 | 12.2  | 12.8 | 13.9  | 10.5 | 10.7   | 9.9  | 9.1    | 9.1  | 10.2   | 9.0  |
| 147° | 10.5 | 11.7  | 12.5 | 13.5  | 10.3 | 10.2   | 9.9  | 9.0    | 9.1  | 10.0   | 8.7  |
| 148° | 10.3 | 11.3  | 12.1 | 13.3  | 9.8  | 10.0   | 9.8  | 9.0    | 9.1  | 9.8    | 8.8  |
| 149° | 9.9  | 11.3  | 11.8 | 13.0  | 9.6  | 9.8    | 9.2  | 8.9    | 9.1  | 9.8    | 8.8  |
| 150° | 9.9  | 11.1  | 11.4 | 12.8  | 9.2  | 9.7    | 8.8  | 8.9    | 9.1  | 9.8    | 8.9  |
| 151° | 9.7  | 10.7  | 11.6 | 12.5  | 9.2  | 9.5    | 8.8  | 9.0    | 9.1  | 9.8    | 8.9  |
| 152° | 9.5  | 10.5  | 11.4 | 12.3  | 9.4  | 9.3    | 8.7  | 9.0    | 9.1  | 9.8    | 9.0  |
| 153° | 9.3  | 10.3  | 11.2 | 12.1  | 9.2  | 9.1    | 8.7  | 9.1    | 9.1  | 9.8    | 9.0  |
| 154° | 9.3  | 10.3  | 11.0 | 11.9  | 8.4  | 9.0    | 8.7  | 9.1    | 9.1  | 9.8    | 9.0  |
| 155° | 9.3  | 10.3  | 11.2 | 11.8  | 8.4  | 8.8    | 8.7  | 9.2    | 9.1  | 9.8    | 9.1  |
| 156° | 9.2  | 10.3  | 11.2 | 11.6  | 8.3  | 8.4    | 8.7  | 9.2    | 9.1  | 9.8    | 9.1  |
| 157° | 9.2  | 10.3  | 11.2 | 11.4  | 8.3  | 8.6    | 8.6  | 9.3    | 9.1  | 9.7    | 9.2  |
| 158° | 9.2  | 10.3  | 11.2 | 11.2  | 8.3  | 8.6    | 8.6  | 9.3    | 9.4  | 9.7    | 9.2  |
| 159° | 9.3  | 10.3  | 11.1 | 11.1  | 8.3  | 8.6    | 8.6  | 9.4    | 9.8  | 9.7    | 9.3  |
| 160° | 9.5  | 10.3  | 11.1 | 10.9  | 8.3  | 8.6    | 8.6  | 9.4    | 10.1 | 9.7    | 9.3  |
| 161° | 9.6  | 10.3  | 11.1 | 10.7  | 8.3  | 8.6    | 8.6  | 9.4    | 10.4 | 10.1   | 9.4  |
| 162° | 9.8  | 10.3  | 11.1 | 10.6  | 8.4  | 8.6    | 9.0  | 9.5    | 10.7 | 10.5   | 10.4 |
| 163° | 9.9  | 10.3  | 11.1 | 10.4  | 8.4  | 8.6    | 9.2  | 10.3   | 11.1 | 11.3   | 11.0 |
| 164° | 10.1 | 10.3  | 11.1 | 10.3  | 8.5  | 8.6    | 9.2  | 10.7   | 11.7 | 11.5   | 11.4 |
| 165° | 10.3 | 10.3  | 11.1 | 10.3  | 8.5  | 8.6    | 9.4  | 10.9   | 12.5 | 11.7   | 11.6 |
| 166° | 10.9 | 10.3  | 11.1 | 10.2  | 8.6  | 8.6    | 9.8  | 11.3   | 13.2 | 12.3   | 11.8 |
| 167° | 11.9 | 10.5  | 11.1 | 10.1  | 8.6  | 8.6    | 9.6  | 11.7   | 13.8 | 12.4   | 12.4 |
| 168° | 12.1 | 11.1  | 11.1 | 10.1  | 8.6  | 8.6    | 9.7  | 11.5   | 14.0 | 12.4   | 13.2 |
| 169° | 12.3 | 12.1  | 11.1 | 10.0  | 8.7  | 8.6    | 9.8  | 11.7   | 14.2 | 12.4   | 13.4 |
| 170° | 12.1 | 12.3  | 11.0 | 10.0  | 8.7  | 8.6    | 9.9  | 11.7   | 14.4 | 12.4   | 13.4 |
| 171° | 12.5 | 12.3  | 11.0 | 9.9   | 8.7  | 8.6    | 10.0 | 11.9   | 14.6 | 12.4   | 13.4 |
| 172° | 12.5 | 12.6  | 11.0 | 9.9   | 8.8  | 8.6    | 10.1 | 12.0   | 14.8 | 12.5   | 13.3 |
| 173° | 12.5 | 13.0  | 11.0 | 9.8   | 8.8  | 8.6    | 10.2 | 12.1   | 14.7 | 12.5   | 13.3 |
| 174° | 12.4 | 13.4  | 11.0 | 9.8   | 8.8  | 9.0    | 10.6 | 12.2   | 14.7 | 12.5   | 13.3 |
| 175° | 12.4 | 13.2  | 11.0 | 9.7   | 9.0  | 8.8    | 10.4 | 12.3   | 14.6 | 12.5   | 13.3 |
| 176° | 12.4 | 13.2  | 11.0 | 9.6   | 9.4  | 9.4    | 10.4 | 12.4   | 14.6 | 12.5   | 13.2 |
| 177° | 12.3 | 13.2  | 11.6 | 9.6   | 9.6  | 9.6    | 10.4 | 12.5   | 14.6 | 12.5   | 13.2 |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 180° | 12.5 | 12.5  | 12.5 | 12.5  | 12.5 | 12.5   | 12.5 | 12.5   | 12.5 | 12.5   | 12.5 |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-----|--------|--------|--------|--------|--------|--------|
| 0°  | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 | 3080.6 |
| 1°  | 3080.4 | 3081.0 | 3081.4 | 3081.0 | 3081.0 | 3080.6 |
| 2°  | 3080.4 | 3081.2 | 3081.8 | 3081.4 | 3080.8 | 3080.2 |
| 3°  | 3079.2 | 3081.4 | 3081.8 | 3081.4 | 3077.6 | 3076.6 |
| 4°  | 3076.0 | 3079.0 | 3080.0 | 3079.6 | 3073.2 | 3071.7 |
| 5°  | 3072.5 | 3074.4 | 3076.6 | 3076.4 | 3067.3 | 3065.7 |
| 6°  | 3067.5 | 3069.5 | 3072.5 | 3072.3 | 3060.1 | 3058.1 |
| 7°  | 3061.1 | 3063.5 | 3066.7 | 3067.1 | 3051.6 | 3049.0 |
| 8°  | 3054.9 | 3057.9 | 3060.1 | 3060.5 | 3042.4 | 3038.2 |
| 9°  | 3047.2 | 3050.6 | 3052.4 | 3051.6 | 3031.1 | 3026.7 |
| 10° | 3038.6 | 3043.2 | 3043.4 | 3042.2 | 3018.5 | 3013.9 |
| 11° | 3028.9 | 3034.2 | 3033.6 | 3031.9 | 3004.8 | 3000.0 |
| 12° | 3018.3 | 3022.9 | 3023.5 | 3020.1 | 2990.5 | 2984.7 |
| 13° | 3006.8 | 3011.6 | 3012.5 | 3006.6 | 2974.1 | 2968.4 |
| 14° | 2994.0 | 2998.8 | 3000.4 | 2992.2 | 2957.4 | 2949.9 |
| 15° | 2981.3 | 2985.5 | 2987.7 | 2977.1 | 2939.5 | 2930.9 |
| 16° | 2966.6 | 2970.4 | 2973.1 | 2960.2 | 2920.0 | 2911.2 |
| 17° | 2951.8 | 2956.0 | 2958.6 | 2942.7 | 2900.5 | 2890.7 |
| 18° | 2934.9 | 2939.5 | 2941.3 | 2923.8 | 2880.2 | 2868.1 |
| 19° | 2917.2 | 2923.4 | 2923.8 | 2903.7 | 2857.9 | 2844.8 |
| 20° | 2898.3 | 2905.7 | 2904.5 | 2883.0 | 2834.4 | 2820.1 |
| 21° | 2877.6 | 2887.2 | 2884.8 | 2862.5 | 2810.1 | 2794.2 |
| 22° | 2857.1 | 2868.1 | 2864.9 | 2839.8 | 2784.3 | 2766.8 |
| 23° | 2835.6 | 2847.6 | 2844.2 | 2815.3 | 2757.8 | 2738.9 |
| 24° | 2814.3 | 2827.3 | 2822.1 | 2790.6 | 2731.1 | 2710.0 |
| 25° | 2792.2 | 2806.8 | 2799.0 | 2765.6 | 2702.5 | 2680.2 |
| 26° | 2770.3 | 2786.3 | 2775.9 | 2739.3 | 2673.6 | 2649.7 |
| 27° | 2746.1 | 2762.8 | 2750.6 | 2712.2 | 2642.8 | 2617.9 |
| 28° | 2721.2 | 2739.3 | 2726.4 | 2683.6 | 2612.1 | 2584.5 |
| 29° | 2696.1 | 2714.2 | 2699.9 | 2654.9 | 2579.9 | 2551.6 |
| 30° | 2670.8 | 2689.3 | 2675.0 | 2624.7 | 2548.0 | 2517.2 |
| 31° | 2644.6 | 2663.5 | 2648.5 | 2594.4 | 2514.8 | 2482.0 |
| 32° | 2616.9 | 2636.6 | 2621.5 | 2563.8 | 2480.0 | 2446.1 |
| 33° | 2589.4 | 2609.5 | 2593.8 | 2531.7 | 2445.5 | 2409.7 |
| 34° | 2561.6 | 2583.1 | 2566.7 | 2498.9 | 2410.1 | 2371.7 |
| 35° | 2532.5 | 2555.0 | 2536.9 | 2466.4 | 2373.7 | 2334.5 |
| 36° | 2502.5 | 2527.7 | 2507.8 | 2431.6 | 2336.9 | 2295.9 |
| 37° | 2472.2 | 2499.1 | 2478.4 | 2397.8 | 2299.7 | 2256.5 |
| 38° | 2442.4 | 2471.4 | 2447.7 | 2363.1 | 2261.3 | 2217.1 |
| 39° | 2412.1 | 2442.2 | 2416.7 | 2328.1 | 2223.4 | 2176.5 |
| 40° | 2381.1 | 2412.1 | 2385.6 | 2291.3 | 2184.0 | 2136.5 |
| 41° | 2351.4 | 2382.5 | 2353.8 | 2255.7 | 2144.6 | 2096.7 |
| 42° | 2320.0 | 2351.4 | 2321.4 | 2218.3 | 2105.0 | 2054.7 |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-----|--------|--------|--------|--------|--------|--------|
| 45° | 2224.4 | 2257.5 | 2221.6 | 2106.0 | 1983.4 | 1926.9 |
| 46° | 2191.2 | 2224.8 | 2187.4 | 2067.8 | 1941.9 | 1883.4 |
| 47° | 2157.8 | 2191.6 | 2154.4 | 2029.2 | 1900.8 | 1839.0 |
| 48° | 2124.5 | 2159.6 | 2118.8 | 1990.1 | 1858.8 | 1794.8 |
| 49° | 2090.3 | 2126.1 | 2084.5 | 1951.7 | 1816.3 | 1750.0 |
| 50° | 2056.1 | 2093.1 | 2048.9 | 1912.7 | 1773.6 | 1705.8 |
| 51° | 2021.8 | 2059.8 | 2012.7 | 1873.2 | 1729.9 | 1660.0 |
| 52° | 1986.1 | 2025.8 | 1977.2 | 1833.7 | 1687.4 | 1614.9 |
| 53° | 1951.1 | 1993.5 | 1941.4 | 1793.8 | 1643.7 | 1569.6 |
| 54° | 1915.3 | 1959.3 | 1904.5 | 1754.0 | 1600.2 | 1523.6 |
| 55° | 1879.3 | 1925.7 | 1867.0 | 1714.5 | 1556.2 | 1477.6 |
| 56° | 1842.4 | 1890.6 | 1829.1 | 1674.1 | 1512.3 | 1431.3 |
| 57° | 1806.4 | 1855.7 | 1792.4 | 1634.1 | 1467.6 | 1384.8 |
| 58° | 1768.8 | 1819.1 | 1753.1 | 1593.1 | 1423.8 | 1338.2 |
| 59° | 1731.6 | 1783.1 | 1716.2 | 1552.6 | 1378.7 | 1291.1 |
| 60° | 1694.0 | 1747.0 | 1677.5 | 1512.4 | 1333.8 | 1243.5 |
| 61° | 1655.7 | 1709.3 | 1640.3 | 1472.0 | 1288.6 | 1195.2 |
| 62° | 1617.2 | 1673.0 | 1601.2 | 1431.3 | 1243.7 | 1147.1 |
| 63° | 1579.1 | 1635.5 | 1562.7 | 1390.8 | 1198.3 | 1099.3 |
| 64° | 1540.4 | 1598.0 | 1523.6 | 1349.7 | 1153.6 | 1051.9 |
| 65° | 1502.2 | 1560.2 | 1484.5 | 1309.2 | 1107.9 | 1003.1 |
| 66° | 1464.1 | 1521.3 | 1445.5 | 1268.8 | 1063.1 | 954.5  |
| 67° | 1424.5 | 1483.9 | 1406.2 | 1228.4 | 1018.8 | 906.4  |
| 68° | 1385.4 | 1443.8 | 1366.6 | 1187.4 | 974.2  | 858.1  |
| 69° | 1345.9 | 1406.3 | 1327.1 | 1145.4 | 929.3  | 810.4  |
| 70° | 1306.6 | 1366.9 | 1287.9 | 1104.8 | 885.6  | 761.7  |
| 71° | 1265.8 | 1327.4 | 1248.3 | 1063.2 | 841.0  | 713.4  |
| 72° | 1225.9 | 1288.3 | 1208.8 | 1022.4 | 797.8  | 666.0  |
| 73° | 1185.6 | 1248.1 | 1169.0 | 980.6  | 754.1  | 617.9  |
| 74° | 1145.3 | 1207.9 | 1128.8 | 940.0  | 710.4  | 570.4  |
| 75° | 1106.9 | 1165.3 | 1089.6 | 898.7  | 667.6  | 523.4  |
| 76° | 1067.7 | 1123.2 | 1050.2 | 858.5  | 625.9  | 477.6  |
| 77° | 1029.3 | 1079.7 | 1010.6 | 817.8  | 584.3  | 432.0  |
| 78° | 990.1  | 1035.8 | 971.8  | 777.7  | 543.2  | 387.1  |
| 79° | 950.4  | 994.7  | 930.5  | 739.0  | 502.6  | 343.6  |
| 80° | 911.5  | 953.1  | 892.9  | 701.2  | 463.3  | 301.7  |
| 81° | 873.9  | 912.2  | 854.1  | 664.7  | 425.2  | 260.6  |
| 82° | 835.9  | 872.7  | 815.8  | 628.7  | 389.3  | 221.5  |
| 83° | 799.9  | 834.2  | 778.9  | 594.3  | 354.5  | 184.7  |
| 84° | 765.4  | 799.0  | 742.9  | 560.4  | 321.6  | 151.6  |
| 85° | 731.5  | 763.6  | 708.6  | 528.3  | 290.7  | 121.0  |
| 86° | 699.1  | 732.4  | 676.8  | 498.3  | 263.2  | 95.0   |
| 87° | 668.7  | 701.0  | 646.6  | 470.5  | 237.1  | 72.8   |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360° |
|------|--------|-------|--------|-------|--------|------|
| 90°  | 596.0  | 626.4 | 573.7  | 403.0 | 179.7  | 38.8 |
| 91°  | 576.2  | 605.9 | 553.0  | 387.2 | 168.9  | 36.8 |
| 92°  | 559.1  | 588.4 | 536.2  | 372.6 | 159.0  | 35.8 |
| 93°  | 542.7  | 571.5 | 520.1  | 358.6 | 150.0  | 34.8 |
| 94°  | 526.2  | 555.4 | 503.5  | 344.2 | 140.8  | 34.0 |
| 95°  | 509.6  | 539.1 | 488.1  | 330.8 | 132.3  | 33.4 |
| 96°  | 492.9  | 523.8 | 472.4  | 318.8 | 124.3  | 32.6 |
| 97°  | 477.3  | 508.4 | 457.3  | 307.5 | 116.2  | 32.0 |
| 98°  | 461.4  | 492.7 | 443.1  | 295.6 | 108.6  | 31.2 |
| 99°  | 445.3  | 479.4 | 429.0  | 283.2 | 101.8  | 30.7 |
| 100° | 430.6  | 464.6 | 413.8  | 271.9 | 95.6   | 30.3 |
| 101° | 415.9  | 450.0 | 399.2  | 260.3 | 89.4   | 29.8 |
| 102° | 400.2  | 436.9 | 384.8  | 249.5 | 83.5   | 29.4 |
| 103° | 387.0  | 423.2 | 370.6  | 238.8 | 78.4   | 28.9 |
| 104° | 371.6  | 409.4 | 357.6  | 227.9 | 73.1   | 28.3 |
| 105° | 358.3  | 396.7 | 345.5  | 217.6 | 68.2   | 27.7 |
| 106° | 344.1  | 383.8 | 333.9  | 207.4 | 63.7   | 27.1 |
| 107° | 330.4  | 370.4 | 322.1  | 197.6 | 59.6   | 26.5 |
| 108° | 317.1  | 357.1 | 309.0  | 188.0 | 55.4   | 25.9 |
| 109° | 304.8  | 343.8 | 296.4  | 179.0 | 51.3   | 25.5 |
| 110° | 292.0  | 330.0 | 284.5  | 170.2 | 47.3   | 25.1 |
| 111° | 280.0  | 317.0 | 272.4  | 161.3 | 43.8   | 24.7 |
| 112° | 268.2  | 304.1 | 260.7  | 152.9 | 40.4   | 24.1 |
| 113° | 256.9  | 291.6 | 248.9  | 144.7 | 37.2   | 24.1 |
| 114° | 245.4  | 279.5 | 237.9  | 136.7 | 34.1   | 23.5 |
| 115° | 234.3  | 268.1 | 227.3  | 129.4 | 31.3   | 23.1 |
| 116° | 223.5  | 256.2 | 216.8  | 121.7 | 28.6   | 22.7 |
| 117° | 213.1  | 244.3 | 206.2  | 114.5 | 26.7   | 22.3 |
| 118° | 202.0  | 233.3 | 195.7  | 107.5 | 25.4   | 21.7 |
| 119° | 192.2  | 222.2 | 186.0  | 100.8 | 25.4   | 21.3 |
| 120° | 182.5  | 211.8 | 176.3  | 94.2  | 24.8   | 20.9 |
| 121° | 172.2  | 201.0 | 167.1  | 87.7  | 24.2   | 20.2 |
| 122° | 163.3  | 190.8 | 158.0  | 81.6  | 23.8   | 19.6 |
| 123° | 153.7  | 180.8 | 148.7  | 75.2  | 23.4   | 19.0 |
| 124° | 144.8  | 170.9 | 139.9  | 69.4  | 23.0   | 18.0 |
| 125° | 136.1  | 161.5 | 131.6  | 64.1  | 22.4   | 17.8 |
| 126° | 127.1  | 152.0 | 123.2  | 58.3  | 22.2   | 17.2 |
| 127° | 119.3  | 142.6 | 114.7  | 53.1  | 21.4   | 16.8 |
| 128° | 110.6  | 133.8 | 106.9  | 47.9  | 21.0   | 16.4 |
| 129° | 102.8  | 124.9 | 98.9   | 42.9  | 20.8   | 15.8 |
| 130° | 94.9   | 116.6 | 91.0   | 38.0  | 20.0   | 15.8 |
| 131° | 87.1   | 107.8 | 83.7   | 34.1  | 19.4   | 15.2 |
| 132° | 80.0   | 99.7  | 76.4   | 29.6  | 19.0   | 14.8 |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 135° | 59.0   | 76.5 | 56.9   | 19.6 | 17.5   | 13.6 |
| 136° | 52.6   | 69.3 | 50.9   | 18.8 | 17.3   | 13.4 |
| 137° | 46.4   | 62.9 | 44.9   | 18.0 | 16.6   | 12.8 |
| 138° | 40.3   | 56.4 | 39.5   | 17.5 | 16.1   | 12.5 |
| 139° | 34.4   | 49.8 | 34.2   | 17.1 | 15.7   | 12.3 |
| 140° | 28.8   | 43.5 | 29.0   | 16.5 | 15.1   | 12.1 |
| 141° | 23.6   | 37.9 | 24.2   | 16.3 | 14.7   | 11.5 |
| 142° | 18.7   | 32.2 | 20.1   | 15.7 | 14.3   | 11.4 |
| 143° | 14.5   | 26.8 | 17.0   | 15.3 | 13.9   | 11.2 |
| 144° | 12.4   | 21.8 | 16.4   | 14.9 | 13.7   | 11.1 |
| 145° | 12.0   | 17.9 | 15.8   | 14.3 | 13.1   | 10.9 |
| 146° | 11.8   | 15.8 | 15.4   | 14.1 | 12.9   | 10.7 |
| 147° | 11.6   | 15.2 | 15.4   | 13.5 | 12.1   | 10.5 |
| 148° | 10.8   | 15.0 | 15.0   | 13.1 | 12.3   | 10.3 |
| 149° | 10.4   | 14.8 | 14.7   | 12.6 | 11.9   | 9.9  |
| 150° | 10.2   | 14.4 | 14.3   | 12.4 | 11.5   | 9.9  |
| 151° | 10.0   | 14.0 | 13.9   | 12.0 | 11.5   | 9.7  |
| 152° | 9.2    | 13.7 | 13.3   | 11.8 | 10.9   | 9.5  |
| 153° | 9.4    | 13.1 | 13.1   | 11.6 | 10.9   | 9.3  |
| 154° | 9.0    | 13.1 | 13.1   | 11.6 | 10.9   | 9.3  |
| 155° | 8.9    | 12.5 | 12.5   | 11.7 | 10.9   | 9.3  |
| 156° | 8.8    | 12.3 | 12.5   | 11.7 | 10.9   | 9.2  |
| 157° | 8.7    | 12.1 | 12.1   | 11.7 | 11.0   | 9.2  |
| 158° | 8.6    | 11.9 | 11.9   | 11.7 | 11.0   | 9.2  |
| 159° | 8.5    | 11.7 | 11.7   | 11.7 | 11.0   | 9.3  |
| 160° | 8.4    | 11.5 | 11.9   | 11.7 | 11.0   | 9.5  |
| 161° | 8.6    | 11.5 | 11.7   | 11.7 | 11.0   | 9.6  |
| 162° | 8.8    | 11.4 | 11.3   | 11.7 | 11.1   | 9.8  |
| 163° | 9.2    | 11.2 | 11.2   | 11.7 | 11.1   | 9.9  |
| 164° | 9.6    | 11.1 | 11.1   | 11.8 | 11.7   | 10.1 |
| 165° | 10.0   | 11.0 | 11.0   | 11.8 | 11.9   | 10.3 |
| 166° | 10.0   | 10.9 | 11.0   | 11.8 | 12.3   | 10.9 |
| 167° | 10.2   | 10.7 | 10.9   | 11.8 | 12.1   | 11.9 |
| 168° | 10.8   | 10.5 | 10.9   | 11.8 | 12.3   | 12.1 |
| 169° | 10.6   | 10.5 | 10.8   | 11.8 | 12.5   | 12.3 |
| 170° | 11.0   | 10.3 | 10.8   | 11.9 | 12.8   | 12.1 |
| 171° | 11.0   | 10.1 | 10.7   | 11.9 | 13.0   | 12.5 |
| 172° | 11.1   | 10.0 | 10.7   | 11.9 | 13.3   | 12.5 |
| 173° | 11.2   | 9.9  | 10.6   | 11.9 | 13.5   | 12.5 |
| 174° | 11.2   | 9.8  | 10.6   | 12.0 | 13.9   | 12.4 |
| 175° | 11.3   | 9.7  | 10.5   | 12.0 | 13.9   | 12.4 |
| 176° | 11.4   | 9.6  | 10.5   | 12.0 | 13.9   | 12.4 |
| 177° | 11.4   | 9.4  | 10.4   | 12.2 | 14.3   | 12.3 |



TEST NUMBER: P861214

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 12.5   | 12.5 | 12.5   | 12.5 | 12.5   | 12.5 |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°







|     |        |        |        |        |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 43° | 2012.3 | 2041.3 | 2114.0 | 2204.1 | 2239.0 | 2202.7 | 2121.1 | 2035.6 | 2014.3 | 2082.5 | 2187.0 |
| 44° | 1969.6 | 2000.7 | 2077.2 | 2170.5 | 2206.7 | 2168.9 | 2082.5 | 1994.0 | 1971.6 | 2042.5 | 2150.6 |



|     |      |       |       |       |       |       |       |       |      |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 88° | 54.3 | 208.5 | 399.3 | 543.7 | 604.3 | 541.1 | 380.7 | 184.7 | 53.7 | 243.7 | 470.8 |
| 89° | 43.7 | 191.8 | 381.1 | 523.4 | 584.1 | 520.9 | 362.9 | 167.9 | 40.7 | 223.9 | 449.1 |



|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 133° | 14.2 | 17.8 | 22.5 | 57.9 | 71.9 | 53.3 | 15.9 | 13.3 | 12.3 | 13.8 | 27.5 |
| 134° | 14.0 | 17.4 | 19.1 | 52.1 | 65.7 | 47.5 | 13.7 | 13.1 | 12.3 | 13.6 | 23.0 |



|      |      |      |      |     |     |     |      |      |      |      |      |
|------|------|------|------|-----|-----|-----|------|------|------|------|------|
| 178° | 12.5 | 13.2 | 11.4 | 9.6 | 9.6 | 9.4 | 10.4 | 12.5 | 14.2 | 12.5 | 13.2 |
| 179° | 12.5 | 13.2 | 11.4 | 9.6 | 9.6 | 9.4 | 10.4 | 12.5 | 14.2 | 12.5 | 13.2 |







|     |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|
| 43° | 2288.1 | 2320.8 | 2289.1 | 2181.8 | 2064.6 | 2012.3 |
| 44° | 2256.5 | 2288.1 | 2255.5 | 2144.4 | 2024.0 | 1969.6 |



|     |       |       |       |       |       |      |
|-----|-------|-------|-------|-------|-------|------|
| 88° | 642.1 | 673.1 | 619.4 | 445.4 | 215.0 | 54.3 |
| 89° | 616.1 | 648.9 | 595.0 | 423.4 | 194.6 | 43.7 |



|      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|
| 133° | 72.4 | 91.8 | 69.6 | 25.7 | 18.8 | 14.2 |
| 134° | 65.9 | 84.3 | 63.6 | 22.3 | 18.0 | 14.0 |



|      |      |     |      |      |      |      |
|------|------|-----|------|------|------|------|
| 178° | 11.4 | 9.4 | 10.4 | 12.4 | 14.1 | 12.5 |
| 179° | 11.4 | 9.4 | 10.4 | 12.6 | 14.1 | 12.5 |



(END OF REPORT)