

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P600960

Luminaire Tested: 8APVTLD-SL3C3 HI POWER 3500K 120V

Issue Date: 1/11/2023

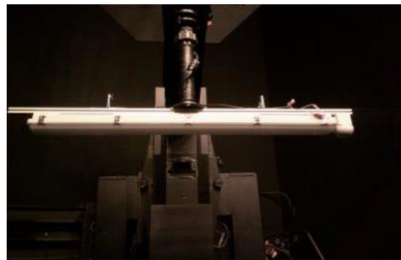
**Test Information**

Test Method: LM-79-2019  
Report Number: P600960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( NTCLR22090026)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8APVTLD-SL3C3 HI POWER 3500K 120V  
Description: HI POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

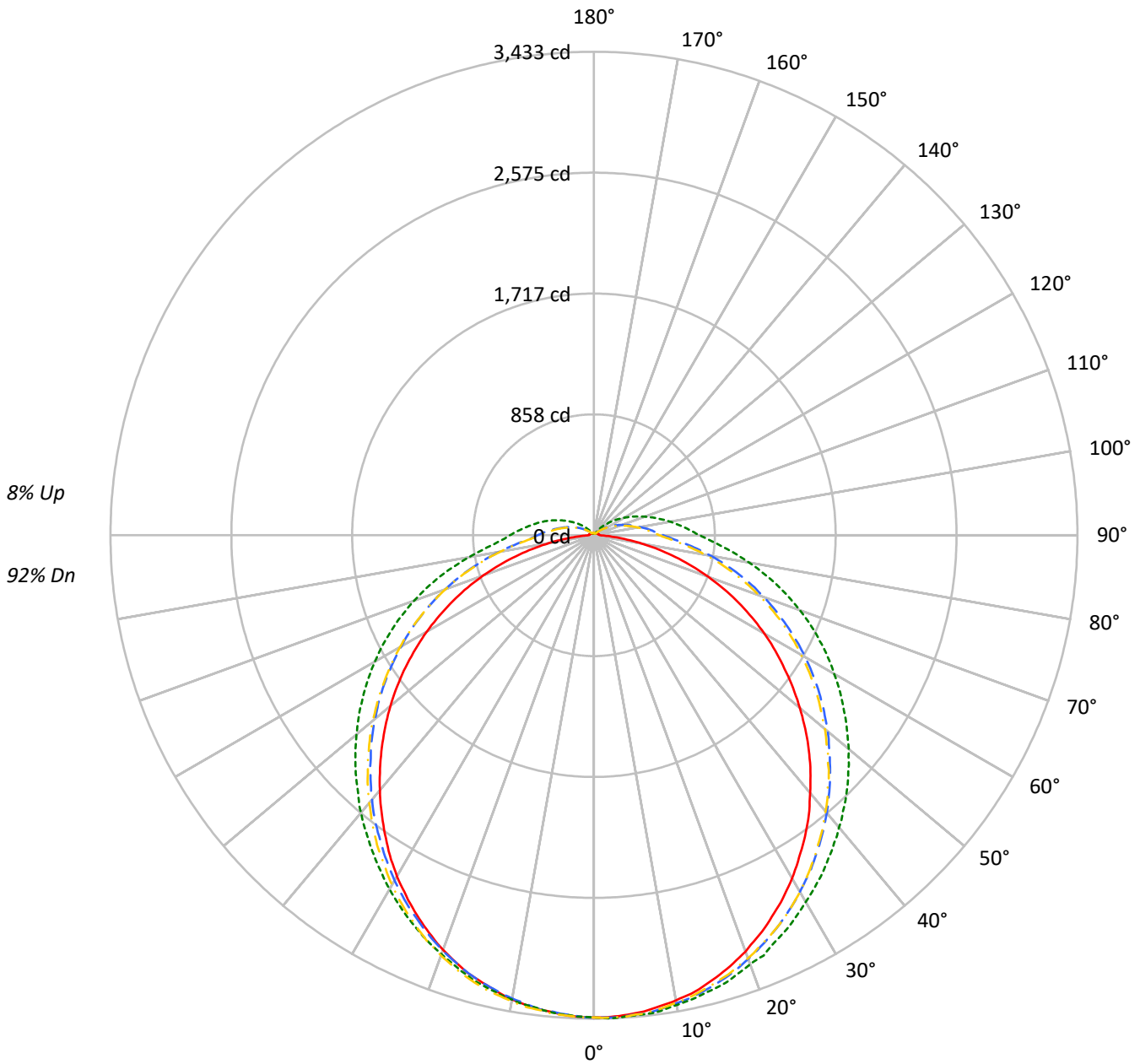
Lumens per Lamp: N/A  
Luminaire Lumens: 11664.1 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 94.2  
Input Voltage (V): 120  
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: 24 FT



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CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

### Luminous Intensity Polar Plot



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



TEST NUMBER: P600960

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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 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 95 | 95 | 95 | 92 |
| 1   | 105 | 100 | 95  | 91  | 102 | 97  | 92  | 88  | 91  | 87  | 84  | 86  | 83  | 80  | 81 | 79 | 76 | 76 | 76 | 76 | 74 |
| 2   | 95  | 86  | 79  | 72  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 74  | 70  | 65  | 70 | 66 | 63 | 63 | 63 | 63 | 60 |
| 3   | 86  | 75  | 66  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 59  | 55  | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 4   | 79  | 66  | 57  | 50  | 76  | 64  | 56  | 49  | 61  | 54  | 48  | 58  | 51  | 46  | 55 | 49 | 45 | 45 | 45 | 45 | 42 |
| 5   | 72  | 59  | 50  | 43  | 70  | 57  | 49  | 42  | 54  | 47  | 41  | 52  | 45  | 40  | 49 | 43 | 39 | 39 | 39 | 39 | 36 |
| 6   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 41  | 36  | 47  | 40  | 35  | 44 | 39 | 34 | 34 | 34 | 34 | 32 |
| 7   | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 42  | 36  | 31  | 40 | 35 | 30 | 30 | 30 | 30 | 28 |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 34  | 29  | 41  | 33  | 28  | 39  | 32  | 28  | 37 | 31 | 27 | 27 | 27 | 27 | 25 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 37  | 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°  | 13823 | 13823 | 13823 | 13823 |
| 5°  | 13792 | 13566 | 13759 | 13492 |
| 10° | 13722 | 13299 | 13697 | 13148 |
| 15° | 13617 | 13041 | 13563 | 12827 |
| 20° | 13466 | 12765 | 13407 | 12463 |
| 25° | 13247 | 12521 | 13188 | 12142 |
| 30° | 13037 | 12247 | 12958 | 11820 |
| 35° | 12776 | 12016 | 12658 | 11494 |
| 40° | 12478 | 11791 | 12353 | 11206 |
| 45° | 12195 | 11613 | 12026 | 10920 |
| 50° | 11841 | 11431 | 11696 | 10644 |
| 55° | 11459 | 11239 | 11323 | 10382 |
| 60° | 11084 | 11100 | 10874 | 10116 |
| 65° | 10577 | 10985 | 10309 | 9834  |
| 70° | 9907  | 10886 | 9601  | 9501  |
| 75° | 9000  | 10806 | 8606  | 9129  |
| 80° | 7678  | 10769 | 7179  | 8680  |
| 85° | 6034  | 10962 | 5417  | 8534  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 16818 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 323.9   | 2.8       |
| 10°-20°   | 926.0   | 7.9       |
| 20°-30°   | 1401.0  | 12.0      |
| 30°-40°   | 1693.0  | 14.5      |
| 40°-50°   | 1782.1  | 15.3      |
| 50°-60°   | 1673.8  | 14.4      |
| 60°-70°   | 1396.5  | 12.0      |
| 70°-80°   | 997.2   | 8.5       |
| 80°-90°   | 587.7   | 5.0       |
| 90°-100°  | 367.8   | 3.2       |
| 100°-110° | 242.6   | 2.1       |
| 110°-120° | 144.1   | 1.2       |
| 120°-130° | 74.7    | 0.6       |
| 130°-140° | 30.3    | 0.3       |
| 140°-150° | 11.1    | 0.1       |
| 150°-160° | 6.5     | 0.1       |
| 160°-170° | 4.1     | 0.0       |
| 170°-180° | 1.5     | 0.0       |
| 0°-30°    | 2651.0  | 22.7      |
| 0°-40°    | 4344.0  | 37.2      |
| 0°-60°    | 7800.0  | 66.9      |
| 0°-90°    | 10781.4 | 92.4      |
| 90°-120°  | 754.4   | 6.5       |
| 90°-150°  | 870.6   | 7.5       |
| 90°-180°  | 883.0   | 7.6       |
| 0°-180°   | 11664.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 3425 | 3425 | 3425 | 3425 | 3425 |      |
| 5°   | 3407 | 3421 | 3399 | 3403 | 3407 | 323  |
| 15°  | 3268 | 3330 | 3255 | 3275 | 3268 | 921  |
| 25°  | 2989 | 3139 | 2976 | 3044 | 2989 | 1378 |
| 35°  | 2612 | 2865 | 2588 | 2741 | 2612 | 1633 |
| 45°  | 2158 | 2543 | 2129 | 2391 | 2158 | 1663 |
| 55°  | 1652 | 2167 | 1633 | 2002 | 1652 | 1479 |
| 65°  | 1132 | 1767 | 1104 | 1582 | 1132 | 1120 |
| 75°  | 600  | 1339 | 573  | 1132 | 600  | 634  |
| 85°  | 146  | 913  | 131  | 711  | 146  | 162  |
| 90°  | 43   | 752  | 40   | 596  | 43   | 27   |
| 95°  | 38   | 644  | 34   | 512  | 38   | 30   |
| 105° | 32   | 467  | 30   | 374  | 32   | 34   |
| 115° | 27   | 313  | 26   | 248  | 27   | 27   |
| 125° | 22   | 191  | 21   | 146  | 22   | 20   |
| 135° | 17   | 95   | 15   | 64   | 17   | 14   |
| 145° | 14   | 24   | 12   | 18   | 14   | 9    |
| 155° | 13   | 14   | 11   | 15   | 13   | 6    |
| 165° | 15   | 13   | 16   | 13   | 15   | 4    |
| 175° | 16   | 13   | 19   | 13   | 16   | 2    |
| 180° | 16   | 16   | 16   | 16   | 16   |      |



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**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°  | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 |
| 1°  | 3424.4 | 3430.0 | 3424.6 | 3425.8 | 3427.8 | 3427.2 | 3427.4 | 3424.4 | 3422.8 | 3423.8 | 3424.0 |
| 2°  | 3422.8 | 3427.8 | 3427.6 | 3427.8 | 3433.2 | 3426.2 | 3425.4 | 3423.4 | 3419.8 | 3419.6 | 3417.4 |
| 3°  | 3418.2 | 3426.6 | 3425.0 | 3421.6 | 3430.0 | 3425.0 | 3426.8 | 3419.4 | 3416.2 | 3414.0 | 3409.2 |
| 4°  | 3413.4 | 3426.0 | 3420.0 | 3420.6 | 3423.4 | 3419.6 | 3424.2 | 3411.0 | 3410.6 | 3409.0 | 3406.2 |
| 5°  | 3407.0 | 3421.8 | 3416.4 | 3413.8 | 3421.2 | 3416.6 | 3416.0 | 3408.0 | 3398.8 | 3405.6 | 3394.6 |
| 6°  | 3401.2 | 3412.8 | 3413.0 | 3412.6 | 3418.8 | 3411.8 | 3416.0 | 3402.2 | 3391.8 | 3395.0 | 3393.0 |
| 7°  | 3387.6 | 3404.0 | 3408.6 | 3405.0 | 3418.0 | 3404.6 | 3403.8 | 3391.4 | 3384.2 | 3385.2 | 3382.4 |
| 8°  | 3376.0 | 3395.2 | 3397.0 | 3402.8 | 3410.2 | 3400.0 | 3396.0 | 3381.4 | 3373.0 | 3374.0 | 3366.4 |
| 9°  | 3366.2 | 3376.8 | 3387.4 | 3393.4 | 3397.2 | 3393.2 | 3382.6 | 3373.8 | 3359.8 | 3361.6 | 3352.4 |
| 10° | 3354.0 | 3361.2 | 3375.0 | 3384.6 | 3387.6 | 3382.2 | 3370.8 | 3355.6 | 3347.8 | 3345.0 | 3340.6 |
| 11° | 3338.8 | 3355.0 | 3365.2 | 3373.0 | 3377.0 | 3372.0 | 3359.0 | 3345.2 | 3331.8 | 3327.4 | 3325.2 |
| 12° | 3327.6 | 3336.8 | 3351.4 | 3362.4 | 3367.6 | 3358.6 | 3345.0 | 3326.8 | 3312.2 | 3308.4 | 3307.6 |
| 13° | 3310.2 | 3321.0 | 3338.2 | 3350.0 | 3354.8 | 3345.2 | 3329.8 | 3306.6 | 3291.8 | 3286.0 | 3291.0 |
| 14° | 3288.0 | 3300.0 | 3322.0 | 3335.4 | 3342.0 | 3334.0 | 3312.4 | 3289.0 | 3273.9 | 3263.1 | 3274.9 |
| 15° | 3267.7 | 3283.2 | 3306.4 | 3322.4 | 3329.8 | 3314.6 | 3296.8 | 3269.5 | 3254.7 | 3246.3 | 3254.5 |
| 16° | 3244.3 | 3263.3 | 3287.4 | 3304.6 | 3318.8 | 3297.2 | 3277.4 | 3249.3 | 3236.7 | 3223.3 | 3234.1 |
| 17° | 3221.7 | 3242.3 | 3269.3 | 3288.4 | 3302.2 | 3284.2 | 3261.1 | 3221.1 | 3212.3 | 3199.5 | 3211.3 |
| 18° | 3197.3 | 3224.7 | 3249.5 | 3269.3 | 3280.0 | 3266.1 | 3239.3 | 3200.3 | 3185.5 | 3175.9 | 3187.9 |
| 19° | 3171.3 | 3194.9 | 3225.9 | 3250.9 | 3262.7 | 3248.9 | 3215.9 | 3173.1 | 3158.3 | 3151.5 | 3163.1 |
| 20° | 3146.7 | 3168.1 | 3201.7 | 3232.3 | 3242.1 | 3226.5 | 3197.3 | 3151.7 | 3133.1 | 3127.3 | 3139.7 |
| 21° | 3113.9 | 3140.9 | 3178.5 | 3214.9 | 3227.5 | 3206.3 | 3174.3 | 3127.9 | 3104.1 | 3096.1 | 3110.5 |
| 22° | 3084.3 | 3118.9 | 3153.3 | 3190.1 | 3218.5 | 3189.1 | 3146.5 | 3102.5 | 3071.1 | 3065.5 | 3084.1 |
| 23° | 3056.7 | 3086.5 | 3128.1 | 3163.9 | 3185.5 | 3164.3 | 3124.5 | 3064.3 | 3040.5 | 3034.7 | 3053.1 |
| 24° | 3024.3 | 3056.3 | 3101.5 | 3145.3 | 3160.5 | 3138.3 | 3100.5 | 3040.1 | 3007.7 | 3005.7 | 3024.5 |
| 25° | 2988.9 | 3028.3 | 3076.1 | 3120.1 | 3139.1 | 3115.5 | 3073.7 | 3011.1 | 2975.5 | 2973.5 | 2993.3 |
| 26° | 2955.3 | 2997.1 | 3045.1 | 3098.3 | 3115.7 | 3089.9 | 3047.5 | 2977.9 | 2940.1 | 2937.9 | 2964.7 |
| 27° | 2924.5 | 2966.7 | 3016.3 | 3067.9 | 3091.3 | 3064.3 | 3018.9 | 2943.1 | 2905.7 | 2903.7 | 2930.9 |
| 28° | 2887.5 | 2928.1 | 2987.7 | 3043.7 | 3063.1 | 3039.5 | 2986.5 | 2905.9 | 2866.7 | 2866.3 | 2898.9 |
| 29° | 2850.7 | 2895.3 | 2958.5 | 3016.3 | 3034.9 | 3012.9 | 2955.5 | 2870.5 | 2833.9 | 2831.7 | 2865.5 |
| 30° | 2813.9 | 2861.7 | 2924.9 | 2988.3 | 3006.9 | 2979.5 | 2925.1 | 2837.3 | 2796.9 | 2793.3 | 2830.3 |
| 31° | 2773.7 | 2824.9 | 2892.9 | 2959.1 | 2981.3 | 2955.3 | 2890.3 | 2796.1 | 2755.5 | 2756.7 | 2794.7 |
| 32° | 2733.1 | 2789.5 | 2860.3 | 2928.5 | 2954.9 | 2923.7 | 2855.3 | 2759.9 | 2717.9 | 2720.7 | 2757.5 |
| 33° | 2691.3 | 2745.3 | 2828.7 | 2897.5 | 2925.3 | 2896.1 | 2820.5 | 2722.3 | 2675.3 | 2683.5 | 2722.5 |
| 34° | 2652.3 | 2709.1 | 2791.9 | 2866.3 | 2898.3 | 2867.7 | 2785.7 | 2684.7 | 2631.1 | 2639.5 | 2683.5 |
| 35° | 2611.7 | 2670.1 | 2755.5 | 2835.1 | 2865.3 | 2832.5 | 2750.9 | 2642.5 | 2587.5 | 2596.3 | 2643.9 |
| 36° | 2570.1 | 2631.1 | 2721.3 | 2803.7 | 2834.9 | 2798.1 | 2710.5 | 2599.9 | 2543.9 | 2555.5 | 2609.3 |
| 37° | 2528.5 | 2591.5 | 2683.3 | 2771.3 | 2805.5 | 2767.7 | 2675.1 | 2561.5 | 2500.3 | 2515.1 | 2572.1 |
| 38° | 2482.7 | 2547.5 | 2648.9 | 2737.3 | 2771.7 | 2730.3 | 2639.5 | 2516.7 | 2456.3 | 2474.5 | 2534.1 |
| 39° | 2433.9 | 2503.9 | 2610.5 | 2703.5 | 2743.3 | 2693.7 | 2596.7 | 2475.1 | 2411.1 | 2432.9 | 2494.3 |
| 40° | 2388.7 | 2460.5 | 2573.1 | 2670.7 | 2707.1 | 2663.3 | 2559.5 | 2433.3 | 2364.9 | 2386.9 | 2451.3 |
| 41° | 2342.1 | 2422.1 | 2534.7 | 2639.1 | 2679.3 | 2628.7 | 2521.1 | 2386.7 | 2319.3 | 2346.3 | 2410.9 |
| 42° | 2298.1 | 2376.9 | 2492.3 | 2604.1 | 2641.3 | 2592.1 | 2480.5 | 2344.1 | 2271.7 | 2299.3 | 2368.3 |
| 43° | 2252.7 | 2333.9 | 2452.9 | 2567.5 | 2610.9 | 2557.7 | 2432.9 | 2297.7 | 2225.3 | 2254.3 | 2326.9 |
| 44° | 2204.7 | 2291.9 | 2413.9 | 2529.3 | 2577.7 | 2524.1 | 2398.9 | 2254.7 | 2177.3 | 2209.5 | 2288.1 |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 2158.5 | 2248.5 | 2370.3 | 2495.3 | 2542.9 | 2487.9 | 2359.1 | 2206.9 | 2128.7 | 2161.5 | 2240.5 |
| 46° | 2109.3 | 2202.1 | 2329.3 | 2457.7 | 2507.9 | 2452.9 | 2306.7 | 2162.9 | 2080.7 | 2114.5 | 2202.1 |
| 47° | 2059.1 | 2152.3 | 2289.5 | 2418.5 | 2468.3 | 2413.1 | 2271.9 | 2114.7 | 2032.3 | 2066.5 | 2161.7 |
| 48° | 2009.3 | 2108.9 | 2245.7 | 2384.5 | 2436.3 | 2374.5 | 2223.7 | 2069.7 | 1984.2 | 2019.9 | 2117.9 |
| 49° | 1959.1 | 2059.5 | 2208.1 | 2348.5 | 2395.5 | 2336.9 | 2183.1 | 2021.5 | 1936.2 | 1969.7 | 2074.1 |
| 50° | 1909.1 | 2012.7 | 2167.3 | 2305.9 | 2362.7 | 2296.1 | 2140.3 | 1975.1 | 1885.7 | 1921.2 | 2028.1 |
| 51° | 1858.3 | 1963.1 | 2122.5 | 2269.5 | 2320.7 | 2255.3 | 2094.5 | 1927.0 | 1837.2 | 1874.0 | 1983.7 |
| 52° | 1807.3 | 1918.9 | 2080.3 | 2235.1 | 2282.7 | 2214.3 | 2050.7 | 1878.0 | 1786.5 | 1822.6 | 1944.0 |
| 53° | 1756.1 | 1869.8 | 2039.7 | 2195.7 | 2245.9 | 2175.9 | 2009.5 | 1828.9 | 1734.5 | 1775.8 | 1898.0 |
| 54° | 1704.5 | 1819.7 | 1995.2 | 2154.5 | 2207.7 | 2136.7 | 1966.3 | 1782.3 | 1683.1 | 1727.3 | 1853.4 |
| 55° | 1652.5 | 1772.3 | 1953.4 | 2115.3 | 2167.3 | 2097.9 | 1921.5 | 1733.4 | 1632.9 | 1678.3 | 1806.8 |
| 56° | 1602.0 | 1721.2 | 1909.8 | 2077.1 | 2129.5 | 2056.5 | 1873.9 | 1681.2 | 1580.2 | 1627.0 | 1761.6 |
| 57° | 1551.1 | 1672.9 | 1865.5 | 2034.7 | 2091.7 | 2018.1 | 1835.1 | 1630.9 | 1527.6 | 1578.1 | 1717.8 |
| 58° | 1501.4 | 1623.6 | 1821.4 | 1994.5 | 2051.5 | 1974.4 | 1789.7 | 1581.0 | 1475.5 | 1528.3 | 1672.3 |
| 59° | 1450.6 | 1575.1 | 1777.2 | 1952.3 | 2013.3 | 1934.4 | 1741.5 | 1533.6 | 1423.8 | 1478.1 | 1627.7 |
| 60° | 1397.7 | 1524.3 | 1733.1 | 1911.8 | 1970.3 | 1890.4 | 1696.9 | 1482.2 | 1371.3 | 1430.3 | 1579.6 |
| 61° | 1343.9 | 1476.9 | 1686.6 | 1869.7 | 1932.5 | 1848.6 | 1656.1 | 1433.9 | 1317.8 | 1379.6 | 1538.4 |
| 62° | 1292.5 | 1426.5 | 1645.3 | 1826.8 | 1892.1 | 1808.5 | 1611.7 | 1384.8 | 1264.8 | 1328.9 | 1492.7 |
| 63° | 1239.7 | 1377.7 | 1596.0 | 1786.0 | 1851.0 | 1765.5 | 1563.5 | 1336.1 | 1210.1 | 1279.2 | 1445.9 |
| 64° | 1185.5 | 1329.8 | 1552.5 | 1742.6 | 1812.0 | 1722.9 | 1520.9 | 1284.6 | 1157.9 | 1229.0 | 1400.0 |
| 65° | 1132.2 | 1279.8 | 1508.1 | 1702.5 | 1766.7 | 1677.3 | 1474.9 | 1235.1 | 1103.5 | 1178.9 | 1351.8 |
| 66° | 1079.2 | 1229.9 | 1462.8 | 1659.6 | 1729.4 | 1635.4 | 1429.8 | 1187.0 | 1050.8 | 1128.5 | 1308.8 |
| 67° | 1025.1 | 1181.8 | 1418.4 | 1613.9 | 1684.5 | 1592.7 | 1383.7 | 1137.4 | 997.5  | 1079.8 | 1263.0 |
| 68° | 971.4  | 1131.2 | 1373.7 | 1571.0 | 1643.6 | 1549.1 | 1338.3 | 1088.3 | 943.2  | 1031.0 | 1216.4 |
| 69° | 917.6  | 1084.5 | 1329.2 | 1526.4 | 1598.5 | 1506.0 | 1292.9 | 1038.0 | 889.9  | 982.0  | 1171.0 |
| 70° | 863.5  | 1035.3 | 1285.6 | 1484.3 | 1555.9 | 1461.5 | 1247.0 | 989.5  | 836.8  | 932.9  | 1125.1 |
| 71° | 809.4  | 985.6  | 1239.1 | 1438.1 | 1511.6 | 1418.4 | 1201.6 | 942.7  | 780.8  | 883.9  | 1077.9 |
| 72° | 757.1  | 937.1  | 1199.1 | 1395.5 | 1468.4 | 1373.6 | 1155.6 | 895.0  | 729.6  | 835.8  | 1034.9 |
| 73° | 705.5  | 889.8  | 1151.9 | 1349.7 | 1426.2 | 1331.3 | 1111.1 | 846.2  | 678.1  | 787.7  | 990.2  |
| 74° | 651.3  | 841.6  | 1109.3 | 1301.8 | 1380.9 | 1285.7 | 1065.0 | 798.5  | 625.3  | 741.1  | 944.0  |
| 75° | 599.5  | 795.4  | 1063.0 | 1258.5 | 1339.4 | 1243.3 | 1021.6 | 751.2  | 573.3  | 694.1  | 899.1  |
| 76° | 546.4  | 747.6  | 1018.5 | 1214.3 | 1293.9 | 1198.2 | 977.8  | 704.4  | 521.9  | 648.7  | 853.2  |
| 77° | 495.8  | 703.3  | 974.2  | 1171.2 | 1249.7 | 1155.6 | 934.2  | 658.3  | 471.1  | 603.7  | 809.6  |
| 78° | 445.2  | 658.2  | 929.6  | 1127.2 | 1205.3 | 1111.1 | 888.8  | 612.6  | 420.9  | 560.8  | 767.2  |
| 79° | 397.3  | 614.5  | 887.1  | 1084.6 | 1163.4 | 1069.3 | 848.6  | 571.0  | 373.5  | 516.7  | 726.9  |
| 80° | 349.8  | 570.9  | 842.2  | 1040.3 | 1120.1 | 1025.8 | 803.5  | 527.1  | 327.1  | 475.7  | 684.0  |
| 81° | 304.4  | 528.0  | 799.9  | 999.6  | 1076.7 | 985.3  | 763.3  | 486.0  | 283.3  | 435.6  | 644.5  |
| 82° | 260.2  | 489.4  | 759.1  | 957.7  | 1034.5 | 945.2  | 721.3  | 444.0  | 239.7  | 397.5  | 606.5  |
| 83° | 219.8  | 449.4  | 716.9  | 917.2  | 993.8  | 903.6  | 682.6  | 407.2  | 200.2  | 361.9  | 571.2  |
| 84° | 181.3  | 412.8  | 677.0  | 876.3  | 952.7  | 865.5  | 643.2  | 369.3  | 164.2  | 328.1  | 536.9  |
| 85° | 145.8  | 377.1  | 639.9  | 836.4  | 913.0  | 827.9  | 608.5  | 335.4  | 130.9  | 295.9  | 505.0  |
| 86° | 113.8  | 341.7  | 604.4  | 799.0  | 878.2  | 793.2  | 576.0  | 303.5  | 101.3  | 267.2  | 476.3  |
| 87° | 87.7   | 309.8  | 572.1  | 762.2  | 840.3  | 757.9  | 542.7  | 274.4  | 76.0   | 240.9  | 450.1  |
| 88° | 67.3   | 282.9  | 542.4  | 728.9  | 809.8  | 726.3  | 513.5  | 248.3  | 58.8   | 222.2  | 430.5  |
| 89° | 51.6   | 260.7  | 515.5  | 699.5  | 776.9  | 693.7  | 486.1  | 226.5  | 46.2   | 205.5  | 414.1  |



TEST NUMBER: P600960

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180° | 202.5° | 225°  |
|------|------|-------|-------|-------|-------|--------|-------|--------|------|--------|-------|
| 90°  | 43.4 | 241.3 | 492.4 | 672.3 | 752.1 | 670.0  | 464.2 | 209.8  | 40.1 | 193.9  | 400.2 |
| 91°  | 41.3 | 225.7 | 471.8 | 649.6 | 724.0 | 645.6  | 445.9 | 196.1  | 38.5 | 183.0  | 384.8 |
| 92°  | 40.3 | 213.6 | 453.9 | 630.6 | 704.2 | 626.6  | 429.7 | 185.5  | 37.5 | 172.3  | 370.8 |
| 93°  | 39.0 | 200.9 | 438.0 | 612.8 | 683.9 | 607.5  | 414.7 | 174.8  | 36.4 | 162.3  | 357.0 |
| 94°  | 38.4 | 190.0 | 422.9 | 593.2 | 663.7 | 589.0  | 399.8 | 164.4  | 35.5 | 153.3  | 343.3 |
| 95°  | 37.6 | 179.5 | 408.6 | 576.0 | 644.5 | 571.0  | 386.0 | 154.0  | 34.3 | 144.7  | 329.5 |
| 96°  | 36.9 | 169.3 | 392.5 | 558.9 | 624.0 | 553.4  | 370.9 | 144.9  | 33.6 | 135.8  | 316.7 |
| 97°  | 36.1 | 159.7 | 377.4 | 541.6 | 605.9 | 536.0  | 357.3 | 135.8  | 33.1 | 127.6  | 304.2 |
| 98°  | 35.6 | 150.1 | 362.9 | 524.8 | 587.5 | 518.5  | 343.8 | 127.5  | 32.2 | 119.7  | 292.1 |
| 99°  | 35.0 | 142.0 | 349.6 | 508.4 | 569.3 | 501.0  | 330.1 | 119.6  | 31.5 | 112.0  | 281.1 |
| 100° | 34.5 | 134.1 | 334.2 | 491.8 | 551.5 | 484.6  | 317.1 | 112.7  | 31.4 | 105.0  | 269.2 |
| 101° | 34.0 | 126.5 | 320.8 | 476.1 | 533.9 | 468.2  | 303.9 | 105.1  | 31.1 | 98.5   | 258.4 |
| 102° | 33.5 | 118.9 | 307.7 | 459.6 | 516.6 | 452.4  | 290.5 | 98.2   | 30.9 | 92.0   | 246.2 |
| 103° | 33.1 | 111.7 | 295.4 | 442.2 | 499.2 | 437.5  | 278.9 | 91.9   | 30.6 | 86.3   | 236.0 |
| 104° | 32.6 | 105.3 | 283.2 | 425.8 | 481.1 | 421.5  | 265.1 | 85.8   | 30.4 | 80.8   | 225.1 |
| 105° | 31.7 | 98.9  | 271.5 | 411.6 | 466.6 | 406.6  | 254.6 | 80.0   | 30.1 | 75.3   | 215.2 |
| 106° | 31.5 | 92.5  | 259.4 | 396.0 | 449.2 | 390.8  | 242.3 | 74.5   | 30.1 | 69.9   | 205.8 |
| 107° | 31.4 | 87.1  | 247.8 | 380.0 | 433.9 | 376.0  | 232.1 | 69.5   | 29.1 | 64.7   | 196.0 |
| 108° | 30.7 | 81.1  | 237.3 | 366.5 | 416.5 | 360.9  | 220.3 | 64.2   | 28.7 | 59.7   | 186.1 |
| 109° | 30.0 | 75.8  | 226.1 | 351.8 | 402.9 | 347.2  | 211.0 | 59.5   | 28.4 | 55.6   | 177.1 |
| 110° | 29.5 | 70.6  | 215.8 | 337.8 | 385.7 | 332.2  | 199.9 | 55.3   | 28.2 | 51.2   | 167.9 |
| 111° | 29.1 | 65.4  | 205.5 | 324.4 | 372.0 | 319.6  | 190.1 | 50.7   | 28.2 | 47.1   | 159.5 |
| 112° | 28.8 | 60.8  | 195.5 | 310.2 | 356.5 | 306.3  | 180.1 | 46.4   | 27.4 | 43.0   | 151.0 |
| 113° | 28.4 | 56.8  | 185.8 | 297.3 | 341.4 | 293.3  | 171.1 | 42.7   | 27.4 | 39.5   | 142.7 |
| 114° | 27.7 | 52.3  | 176.1 | 284.4 | 328.5 | 280.2  | 161.9 | 38.9   | 27.2 | 36.1   | 134.7 |
| 115° | 27.0 | 48.2  | 167.1 | 271.8 | 313.3 | 267.0  | 153.4 | 35.6   | 26.1 | 32.7   | 126.8 |
| 116° | 26.7 | 44.5  | 158.1 | 258.8 | 300.9 | 254.8  | 144.6 | 32.2   | 25.8 | 29.8   | 118.7 |
| 117° | 26.3 | 40.5  | 149.3 | 247.1 | 286.4 | 243.5  | 136.5 | 29.7   | 25.4 | 27.3   | 111.9 |
| 118° | 25.8 | 37.3  | 140.9 | 236.2 | 274.0 | 231.8  | 128.1 | 26.9   | 25.1 | 24.8   | 104.3 |
| 119° | 25.3 | 34.0  | 133.1 | 224.5 | 261.1 | 220.2  | 120.2 | 25.2   | 24.6 | 24.8   | 97.5  |
| 120° | 24.9 | 31.2  | 124.8 | 213.1 | 249.6 | 209.4  | 112.5 | 25.0   | 24.4 | 24.4   | 90.4  |
| 121° | 24.2 | 29.3  | 117.3 | 202.4 | 236.9 | 197.6  | 104.7 | 24.3   | 24.0 | 23.2   | 83.2  |
| 122° | 23.7 | 28.6  | 109.7 | 191.5 | 226.2 | 187.3  | 97.7  | 24.1   | 23.0 | 22.9   | 77.2  |
| 123° | 22.8 | 28.1  | 102.4 | 181.9 | 212.5 | 176.8  | 90.2  | 23.8   | 22.1 | 22.3   | 70.6  |
| 124° | 22.0 | 27.8  | 95.0  | 171.3 | 202.7 | 166.3  | 83.5  | 22.8   | 21.6 | 21.8   | 64.3  |
| 125° | 21.6 | 27.1  | 87.8  | 161.1 | 190.8 | 156.3  | 76.5  | 22.6   | 21.1 | 21.6   | 58.6  |
| 126° | 21.1 | 26.5  | 81.3  | 151.9 | 180.6 | 146.8  | 70.1  | 21.9   | 20.4 | 21.6   | 53.1  |
| 127° | 20.7 | 26.0  | 74.5  | 142.1 | 169.8 | 137.6  | 63.8  | 21.7   | 19.9 | 21.1   | 48.1  |
| 128° | 20.4 | 25.3  | 68.2  | 133.2 | 160.2 | 128.9  | 58.1  | 21.9   | 19.0 | 20.6   | 42.6  |
| 129° | 20.1 | 24.6  | 61.8  | 124.4 | 149.5 | 119.0  | 52.5  | 20.8   | 18.5 | 19.7   | 37.5  |
| 130° | 19.5 | 24.3  | 56.4  | 115.2 | 141.0 | 111.1  | 47.3  | 20.3   | 17.6 | 19.4   | 33.0  |
| 131° | 19.0 | 23.7  | 50.8  | 106.8 | 130.2 | 102.4  | 41.7  | 19.6   | 17.1 | 19.0   | 28.1  |
| 132° | 18.5 | 23.2  | 45.3  | 98.1  | 122.2 | 94.7   | 37.0  | 19.3   | 16.4 | 18.5   | 24.1  |
| 133° | 18.1 | 22.9  | 40.5  | 90.7  | 111.9 | 86.5   | 32.4  | 18.7   | 15.7 | 18.0   | 20.2  |
| 134° | 17.8 | 22.2  | 35.4  | 82.6  | 103.3 | 78.5   | 27.8  | 18.6   | 15.2 | 17.5   | 17.5  |





TEST NUMBER: P600960

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 135° | 17.4 | 21.8  | 31.0 | 75.1  | 94.7 | 71.6   | 23.9 | 17.9   | 14.6 | 16.9   | 16.8 |
| 136° | 17.1 | 21.5  | 26.7 | 67.9  | 86.2 | 64.1   | 20.2 | 17.5   | 14.3 | 16.4   | 16.1 |
| 137° | 16.7 | 20.8  | 23.5 | 60.9  | 78.0 | 57.5   | 19.0 | 17.0   | 13.9 | 16.2   | 15.8 |
| 138° | 16.6 | 20.4  | 22.2 | 54.8  | 70.0 | 51.6   | 17.9 | 16.8   | 13.8 | 16.2   | 15.1 |
| 139° | 16.2 | 19.9  | 21.7 | 48.1  | 62.6 | 45.3   | 17.2 | 16.1   | 13.6 | 15.9   | 14.5 |
| 140° | 15.9 | 19.5  | 21.0 | 42.4  | 55.8 | 39.4   | 16.9 | 15.8   | 13.8 | 15.2   | 13.8 |
| 141° | 15.4 | 18.9  | 20.7 | 36.6  | 48.7 | 33.9   | 16.3 | 15.8   | 13.2 | 14.5   | 13.7 |
| 142° | 15.3 | 18.7  | 20.1 | 31.3  | 42.1 | 28.7   | 16.0 | 14.9   | 12.9 | 14.1   | 13.3 |
| 143° | 15.3 | 18.2  | 19.6 | 26.3  | 36.1 | 23.9   | 15.5 | 14.4   | 12.4 | 14.0   | 12.6 |
| 144° | 15.0 | 18.0  | 19.3 | 22.1  | 29.8 | 19.9   | 14.8 | 14.1   | 11.7 | 13.8   | 12.4 |
| 145° | 14.5 | 17.5  | 18.7 | 20.7  | 24.2 | 17.5   | 14.4 | 13.9   | 11.5 | 13.8   | 12.1 |
| 146° | 14.3 | 16.9  | 18.4 | 20.0  | 19.5 | 17.0   | 14.2 | 13.5   | 11.5 | 13.7   | 11.9 |
| 147° | 14.3 | 16.6  | 18.0 | 19.7  | 17.1 | 16.6   | 14.2 | 13.7   | 11.5 | 13.7   | 11.9 |
| 148° | 13.8 | 16.2  | 17.7 | 19.3  | 16.6 | 16.6   | 13.9 | 13.5   | 11.5 | 13.6   | 11.8 |
| 149° | 13.6 | 15.7  | 17.2 | 19.0  | 16.2 | 16.4   | 13.9 | 13.2   | 11.4 | 13.6   | 11.8 |
| 150° | 13.4 | 15.5  | 16.8 | 18.3  | 16.2 | 16.4   | 13.7 | 13.2   | 11.4 | 13.5   | 11.8 |
| 151° | 13.1 | 15.2  | 16.6 | 18.1  | 15.7 | 16.1   | 13.5 | 13.3   | 11.4 | 13.4   | 11.8 |
| 152° | 13.1 | 15.2  | 16.5 | 17.9  | 15.2 | 15.2   | 13.5 | 13.4   | 11.4 | 13.4   | 11.8 |
| 153° | 12.9 | 14.7  | 16.4 | 17.6  | 14.5 | 14.8   | 13.5 | 13.5   | 11.4 | 13.4   | 11.8 |
| 154° | 13.0 | 14.7  | 16.3 | 17.2  | 14.3 | 14.5   | 13.5 | 13.6   | 11.4 | 13.4   | 11.8 |
| 155° | 13.0 | 14.7  | 16.2 | 17.0  | 13.6 | 14.3   | 13.5 | 13.8   | 11.3 | 13.4   | 11.8 |
| 156° | 13.1 | 14.7  | 16.1 | 16.9  | 13.6 | 13.8   | 13.5 | 13.9   | 11.3 | 13.4   | 11.8 |
| 157° | 13.2 | 14.7  | 16.1 | 16.5  | 13.4 | 13.9   | 13.5 | 14.0   | 11.3 | 13.4   | 11.8 |
| 158° | 13.3 | 14.7  | 16.1 | 16.7  | 13.4 | 13.6   | 13.5 | 14.1   | 11.7 | 13.4   | 11.7 |
| 159° | 13.3 | 14.8  | 16.0 | 16.0  | 13.4 | 13.2   | 13.5 | 14.2   | 11.7 | 13.6   | 11.7 |
| 160° | 13.4 | 14.8  | 16.0 | 16.0  | 13.4 | 13.2   | 13.5 | 14.3   | 12.0 | 13.8   | 11.8 |
| 161° | 13.4 | 14.9  | 16.0 | 16.2  | 13.3 | 13.2   | 13.6 | 14.4   | 12.7 | 14.1   | 12.6 |
| 162° | 13.6 | 14.9  | 16.0 | 15.8  | 13.3 | 13.2   | 13.7 | 14.6   | 13.6 | 14.8   | 13.5 |
| 163° | 13.8 | 15.0  | 16.0 | 15.6  | 13.3 | 13.2   | 13.8 | 15.1   | 14.5 | 15.2   | 14.2 |
| 164° | 13.9 | 15.1  | 15.9 | 15.3  | 13.3 | 13.2   | 13.8 | 15.4   | 15.0 | 15.4   | 14.5 |
| 165° | 14.6 | 15.1  | 15.9 | 15.5  | 13.3 | 13.2   | 13.9 | 15.8   | 15.5 | 15.5   | 15.1 |
| 166° | 15.0 | 15.2  | 15.9 | 15.1  | 13.2 | 13.2   | 14.0 | 16.0   | 16.0 | 15.7   | 15.8 |
| 167° | 15.5 | 15.9  | 15.9 | 15.1  | 13.2 | 13.2   | 14.1 | 16.3   | 16.7 | 16.1   | 16.3 |
| 168° | 16.0 | 15.9  | 15.8 | 14.9  | 13.2 | 13.1   | 14.2 | 16.3   | 17.1 | 16.6   | 17.2 |
| 169° | 16.1 | 16.2  | 15.8 | 14.9  | 13.2 | 13.1   | 14.1 | 16.3   | 17.6 | 16.6   | 17.7 |
| 170° | 16.1 | 16.1  | 15.8 | 14.8  | 13.2 | 13.1   | 14.1 | 16.3   | 17.9 | 16.5   | 18.4 |
| 171° | 16.1 | 16.4  | 15.8 | 14.6  | 13.2 | 13.1   | 14.1 | 16.3   | 18.0 | 16.5   | 19.1 |
| 172° | 16.2 | 16.2  | 15.8 | 14.4  | 13.1 | 13.1   | 14.0 | 16.3   | 18.5 | 16.5   | 19.3 |
| 173° | 16.2 | 16.8  | 15.7 | 13.9  | 13.1 | 13.1   | 14.0 | 16.7   | 18.7 | 16.5   | 19.3 |
| 174° | 16.3 | 16.6  | 15.6 | 13.5  | 13.1 | 13.1   | 14.0 | 16.8   | 18.8 | 16.5   | 19.4 |
| 175° | 16.3 | 16.9  | 15.6 | 13.5  | 13.1 | 13.1   | 13.9 | 16.8   | 19.0 | 16.4   | 19.3 |
| 176° | 16.3 | 17.3  | 15.5 | 13.4  | 13.1 | 13.1   | 13.9 | 16.8   | 19.2 | 16.4   | 19.1 |
| 177° | 16.4 | 17.5  | 15.4 | 13.4  | 13.1 | 13.1   | 13.9 | 16.8   | 19.3 | 16.4   | 18.7 |
| 178° | 16.4 | 17.5  | 15.4 | 13.4  | 13.2 | 13.2   | 13.9 | 16.8   | 19.3 | 16.4   | 18.2 |
| 179° | 16.4 | 17.5  | 15.4 | 13.4  | 13.2 | 13.6   | 13.9 | 16.8   | 19.3 | 16.4   | 17.7 |



TEST NUMBER: P600960  
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 180° | 16.4 | 16.4  | 16.4 | 16.4  | 16.4 | 16.4   | 16.4 | 16.4   | 16.4 | 16.4   | 16.4 |

TEST NUMBER: P600960

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-----|--------|--------|--------|--------|--------|--------|
| 0°  | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 | 3424.6 |
| 1°  | 3420.6 | 3420.2 | 3425.8 | 3424.4 | 3425.6 | 3424.4 |
| 2°  | 3414.2 | 3419.8 | 3423.8 | 3421.8 | 3422.8 | 3422.8 |
| 3°  | 3411.6 | 3411.2 | 3416.6 | 3416.2 | 3418.4 | 3418.2 |
| 4°  | 3404.8 | 3409.4 | 3413.0 | 3414.0 | 3411.0 | 3413.4 |
| 5°  | 3399.6 | 3402.6 | 3408.2 | 3412.4 | 3402.8 | 3407.0 |
| 6°  | 3390.2 | 3392.6 | 3397.6 | 3398.0 | 3394.6 | 3401.2 |
| 7°  | 3384.2 | 3380.2 | 3389.8 | 3391.0 | 3386.0 | 3387.6 |
| 8°  | 3372.4 | 3372.0 | 3380.4 | 3385.6 | 3375.8 | 3376.0 |
| 9°  | 3361.2 | 3363.0 | 3366.4 | 3374.2 | 3363.6 | 3366.2 |
| 10° | 3344.0 | 3349.2 | 3353.4 | 3361.4 | 3347.2 | 3354.0 |
| 11° | 3330.6 | 3338.2 | 3341.4 | 3347.6 | 3332.2 | 3338.8 |
| 12° | 3320.2 | 3319.4 | 3332.6 | 3333.0 | 3314.2 | 3327.6 |
| 13° | 3306.6 | 3306.8 | 3317.4 | 3322.4 | 3297.4 | 3310.2 |
| 14° | 3287.4 | 3289.8 | 3301.2 | 3304.8 | 3278.0 | 3288.0 |
| 15° | 3268.5 | 3275.1 | 3283.8 | 3286.6 | 3257.9 | 3267.7 |
| 16° | 3246.3 | 3252.3 | 3265.5 | 3266.3 | 3236.3 | 3244.3 |
| 17° | 3228.7 | 3233.3 | 3247.9 | 3246.7 | 3210.7 | 3221.7 |
| 18° | 3204.1 | 3208.7 | 3224.5 | 3222.3 | 3192.7 | 3197.3 |
| 19° | 3181.7 | 3187.5 | 3204.7 | 3198.1 | 3161.1 | 3171.3 |
| 20° | 3159.5 | 3165.3 | 3177.7 | 3177.1 | 3138.5 | 3146.7 |
| 21° | 3136.5 | 3144.5 | 3154.9 | 3146.3 | 3108.7 | 3113.9 |
| 22° | 3109.3 | 3121.5 | 3130.5 | 3127.1 | 3080.3 | 3084.3 |
| 23° | 3085.9 | 3096.9 | 3109.1 | 3094.9 | 3049.7 | 3056.7 |
| 24° | 3056.3 | 3070.1 | 3083.3 | 3064.5 | 3021.7 | 3024.3 |
| 25° | 3032.9 | 3044.1 | 3052.5 | 3030.7 | 2987.3 | 2988.9 |
| 26° | 2998.9 | 3018.9 | 3020.1 | 3002.7 | 2951.7 | 2955.3 |
| 27° | 2971.1 | 2989.7 | 2989.5 | 2969.7 | 2917.7 | 2924.5 |
| 28° | 2942.7 | 2961.9 | 2965.5 | 2936.7 | 2879.3 | 2887.5 |
| 29° | 2913.7 | 2933.5 | 2930.3 | 2903.1 | 2841.9 | 2850.7 |
| 30° | 2880.7 | 2901.9 | 2901.1 | 2866.1 | 2806.9 | 2813.9 |
| 31° | 2853.9 | 2871.7 | 2868.7 | 2832.1 | 2770.7 | 2773.7 |
| 32° | 2816.1 | 2837.5 | 2834.1 | 2791.7 | 2733.9 | 2733.1 |
| 33° | 2784.9 | 2806.5 | 2802.9 | 2755.1 | 2693.1 | 2691.3 |
| 34° | 2752.3 | 2773.7 | 2767.9 | 2719.7 | 2652.5 | 2652.3 |
| 35° | 2719.5 | 2740.9 | 2730.3 | 2684.5 | 2612.3 | 2611.7 |
| 36° | 2680.7 | 2707.9 | 2696.3 | 2643.7 | 2570.3 | 2570.1 |
| 37° | 2642.9 | 2673.1 | 2661.9 | 2604.5 | 2528.1 | 2528.5 |
| 38° | 2609.3 | 2640.7 | 2628.5 | 2563.9 | 2485.1 | 2482.7 |
| 39° | 2578.3 | 2609.7 | 2593.5 | 2519.9 | 2441.7 | 2433.9 |
| 40° | 2546.3 | 2572.9 | 2555.1 | 2482.7 | 2395.5 | 2388.7 |
| 41° | 2503.1 | 2540.1 | 2519.5 | 2441.7 | 2350.7 | 2342.1 |
| 42° | 2467.9 | 2498.5 | 2484.3 | 2400.9 | 2305.9 | 2298.1 |
| 43° | 2426.5 | 2461.5 | 2446.1 | 2356.3 | 2257.1 | 2252.7 |
| 44° | 2390.7 | 2426.5 | 2406.1 | 2310.9 | 2214.7 | 2204.7 |

TEST NUMBER: P600960

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|     | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-----|--------|--------|--------|--------|--------|--------|
| 45° | 2351.7 | 2391.3 | 2368.5 | 2269.7 | 2167.5 | 2158.5 |
| 46° | 2316.3 | 2353.9 | 2327.9 | 2224.9 | 2115.3 | 2109.3 |
| 47° | 2278.5 | 2316.1 | 2290.1 | 2182.3 | 2071.3 | 2059.1 |
| 48° | 2239.3 | 2280.1 | 2248.1 | 2138.7 | 2022.9 | 2009.3 |
| 49° | 2197.7 | 2239.1 | 2207.3 | 2095.1 | 1974.7 | 1959.1 |
| 50° | 2158.5 | 2200.1 | 2163.7 | 2050.1 | 1927.3 | 1909.1 |
| 51° | 2121.3 | 2161.5 | 2124.5 | 2002.9 | 1877.4 | 1858.3 |
| 52° | 2074.9 | 2122.3 | 2081.9 | 1957.7 | 1826.2 | 1807.3 |
| 53° | 2034.1 | 2084.3 | 2042.7 | 1913.6 | 1777.5 | 1756.1 |
| 54° | 1993.6 | 2041.9 | 1997.2 | 1865.5 | 1727.8 | 1704.5 |
| 55° | 1952.9 | 2001.9 | 1957.4 | 1820.7 | 1677.8 | 1652.5 |
| 56° | 1910.0 | 1962.3 | 1914.2 | 1774.2 | 1630.1 | 1602.0 |
| 57° | 1868.4 | 1921.8 | 1871.9 | 1728.2 | 1579.0 | 1551.1 |
| 58° | 1824.0 | 1879.4 | 1827.5 | 1683.2 | 1528.4 | 1501.4 |
| 59° | 1781.7 | 1838.7 | 1782.8 | 1638.6 | 1478.7 | 1450.6 |
| 60° | 1735.3 | 1795.7 | 1740.9 | 1590.2 | 1428.4 | 1397.7 |
| 61° | 1690.9 | 1753.8 | 1695.6 | 1545.4 | 1377.0 | 1343.9 |
| 62° | 1646.4 | 1711.9 | 1650.7 | 1495.7 | 1329.4 | 1292.5 |
| 63° | 1602.7 | 1668.7 | 1605.6 | 1451.8 | 1280.1 | 1239.7 |
| 64° | 1559.5 | 1625.2 | 1561.4 | 1403.9 | 1229.1 | 1185.5 |
| 65° | 1512.8 | 1581.6 | 1517.7 | 1355.8 | 1179.2 | 1132.2 |
| 66° | 1471.6 | 1537.3 | 1471.0 | 1308.4 | 1129.5 | 1079.2 |
| 67° | 1425.9 | 1494.6 | 1425.0 | 1263.5 | 1080.2 | 1025.1 |
| 68° | 1383.0 | 1445.3 | 1382.7 | 1215.5 | 1027.9 | 971.4  |
| 69° | 1339.3 | 1402.7 | 1336.5 | 1169.0 | 978.4  | 917.6  |
| 70° | 1293.9 | 1358.0 | 1292.4 | 1123.6 | 931.4  | 863.5  |
| 71° | 1248.6 | 1311.8 | 1246.9 | 1075.8 | 879.9  | 809.4  |
| 72° | 1206.3 | 1268.9 | 1203.3 | 1030.9 | 831.9  | 757.1  |
| 73° | 1161.0 | 1220.8 | 1156.2 | 983.1  | 783.1  | 705.5  |
| 74° | 1114.4 | 1177.8 | 1112.1 | 936.7  | 736.9  | 651.3  |
| 75° | 1070.2 | 1131.5 | 1068.0 | 891.7  | 688.6  | 599.5  |
| 76° | 1022.7 | 1084.8 | 1024.3 | 846.5  | 641.1  | 546.4  |
| 77° | 978.4  | 1037.6 | 980.5  | 802.6  | 596.4  | 495.8  |
| 78° | 936.4  | 990.6  | 935.0  | 761.3  | 551.0  | 445.2  |
| 79° | 894.5  | 946.9  | 893.0  | 718.2  | 508.5  | 397.3  |
| 80° | 854.5  | 902.8  | 850.7  | 677.9  | 466.2  | 349.8  |
| 81° | 814.5  | 859.7  | 808.7  | 638.8  | 425.8  | 304.4  |
| 82° | 776.3  | 819.3  | 770.1  | 600.2  | 387.6  | 260.2  |
| 83° | 740.6  | 781.4  | 730.2  | 564.5  | 351.0  | 219.8  |
| 84° | 706.1  | 745.2  | 693.8  | 528.5  | 315.9  | 181.3  |
| 85° | 673.8  | 710.8  | 659.9  | 496.1  | 282.2  | 145.8  |
| 86° | 644.8  | 682.2  | 630.1  | 468.0  | 253.9  | 113.8  |
| 87° | 617.1  | 655.7  | 603.8  | 441.2  | 228.3  | 87.7   |
| 88° | 595.4  | 632.6  | 581.4  | 419.6  | 207.9  | 67.3   |
| 89° | 577.3  | 614.0  | 562.7  | 401.4  | 190.0  | 51.6   |

TEST NUMBER: P600960

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360° |
|------|--------|-------|--------|-------|--------|------|
| 90°  | 560.8  | 596.5 | 545.2  | 385.3 | 176.7  | 43.4 |
| 91°  | 543.7  | 578.8 | 527.9  | 371.5 | 166.3  | 41.3 |
| 92°  | 528.0  | 561.2 | 510.7  | 357.9 | 155.6  | 40.3 |
| 93°  | 511.3  | 544.3 | 495.0  | 343.8 | 146.8  | 39.0 |
| 94°  | 495.3  | 527.8 | 479.1  | 329.3 | 138.7  | 38.4 |
| 95°  | 478.2  | 511.8 | 463.6  | 316.2 | 130.4  | 37.6 |
| 96°  | 462.9  | 497.4 | 449.3  | 304.0 | 121.8  | 36.9 |
| 97°  | 446.7  | 481.8 | 434.6  | 292.8 | 114.5  | 36.1 |
| 98°  | 432.3  | 467.4 | 420.2  | 281.6 | 107.5  | 35.6 |
| 99°  | 417.0  | 453.3 | 405.9  | 270.6 | 100.6  | 35.0 |
| 100° | 402.6  | 439.4 | 391.6  | 259.3 | 94.5   | 34.5 |
| 101° | 389.2  | 424.8 | 377.6  | 247.5 | 88.8   | 34.0 |
| 102° | 373.8  | 412.7 | 364.3  | 237.3 | 83.2   | 33.5 |
| 103° | 360.7  | 399.0 | 352.1  | 227.3 | 77.6   | 33.1 |
| 104° | 346.1  | 386.3 | 340.2  | 216.7 | 72.5   | 32.6 |
| 105° | 332.9  | 373.5 | 328.5  | 206.8 | 67.7   | 31.7 |
| 106° | 320.3  | 361.1 | 316.0  | 196.5 | 62.8   | 31.5 |
| 107° | 307.4  | 348.4 | 302.8  | 187.2 | 58.6   | 31.4 |
| 108° | 294.8  | 335.2 | 289.8  | 177.5 | 55.1   | 30.7 |
| 109° | 282.8  | 321.9 | 278.2  | 168.8 | 51.2   | 30.0 |
| 110° | 269.6  | 309.5 | 266.5  | 160.4 | 47.3   | 29.5 |
| 111° | 258.6  | 297.2 | 254.8  | 152.0 | 44.2   | 29.1 |
| 112° | 247.1  | 284.3 | 243.7  | 144.0 | 40.5   | 28.8 |
| 113° | 236.3  | 272.7 | 233.0  | 136.0 | 37.6   | 28.4 |
| 114° | 225.4  | 260.1 | 222.3  | 128.4 | 35.0   | 27.7 |
| 115° | 214.9  | 248.3 | 211.9  | 120.7 | 32.4   | 27.0 |
| 116° | 204.1  | 237.3 | 201.6  | 113.7 | 30.7   | 26.7 |
| 117° | 194.8  | 226.3 | 190.8  | 106.3 | 30.2   | 26.3 |
| 118° | 184.0  | 215.8 | 180.8  | 99.5  | 29.7   | 25.8 |
| 119° | 174.1  | 204.9 | 171.2  | 92.8  | 29.3   | 25.3 |
| 120° | 164.8  | 194.4 | 161.8  | 86.2  | 28.8   | 24.9 |
| 121° | 154.7  | 184.2 | 152.8  | 80.0  | 28.3   | 24.2 |
| 122° | 146.3  | 174.3 | 143.9  | 73.8  | 28.1   | 23.7 |
| 123° | 137.0  | 164.6 | 134.8  | 67.9  | 27.4   | 22.8 |
| 124° | 128.7  | 154.9 | 126.3  | 61.9  | 27.1   | 22.0 |
| 125° | 120.6  | 145.8 | 118.2  | 56.9  | 26.7   | 21.6 |
| 126° | 111.7  | 136.7 | 109.9  | 51.5  | 26.0   | 21.1 |
| 127° | 103.6  | 127.8 | 101.8  | 46.3  | 25.7   | 20.7 |
| 128° | 95.9   | 118.9 | 94.2   | 41.5  | 25.0   | 20.4 |
| 129° | 87.5   | 110.2 | 86.6   | 36.9  | 24.5   | 20.1 |
| 130° | 80.9   | 101.7 | 78.9   | 32.6  | 23.8   | 19.5 |
| 131° | 73.1   | 93.8  | 71.9   | 28.6  | 23.2   | 19.0 |
| 132° | 65.8   | 85.9  | 64.8   | 25.2  | 22.5   | 18.5 |
| 133° | 59.2   | 78.4  | 58.8   | 23.4  | 22.2   | 18.1 |
| 134° | 53.2   | 70.6  | 52.7   | 22.5  | 21.5   | 17.8 |

TEST NUMBER: P600960

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 135° | 47.0   | 63.8 | 46.7   | 22.0 | 21.1   | 17.4 |
| 136° | 40.9   | 57.4 | 40.9   | 21.6 | 20.5   | 17.1 |
| 137° | 35.4   | 50.9 | 35.6   | 21.1 | 20.1   | 16.7 |
| 138° | 29.9   | 44.8 | 30.6   | 20.6 | 19.6   | 16.6 |
| 139° | 24.7   | 38.8 | 25.7   | 19.9 | 18.9   | 16.2 |
| 140° | 19.9   | 33.3 | 21.7   | 19.5 | 18.4   | 15.9 |
| 141° | 16.4   | 27.9 | 19.6   | 19.0 | 18.0   | 15.4 |
| 142° | 15.5   | 23.2 | 19.2   | 18.6 | 17.7   | 15.3 |
| 143° | 15.1   | 19.8 | 18.7   | 18.3 | 17.2   | 15.3 |
| 144° | 14.4   | 18.7 | 18.3   | 17.8 | 16.8   | 15.0 |
| 145° | 14.2   | 18.2 | 18.2   | 17.0 | 16.3   | 14.5 |
| 146° | 13.7   | 17.8 | 17.6   | 16.9 | 16.1   | 14.3 |
| 147° | 13.7   | 17.5 | 17.3   | 16.0 | 15.8   | 14.3 |
| 148° | 13.5   | 17.0 | 16.9   | 15.8 | 15.4   | 13.8 |
| 149° | 13.2   | 16.8 | 16.8   | 15.5 | 15.3   | 13.6 |
| 150° | 13.0   | 16.2 | 16.6   | 15.3 | 14.7   | 13.4 |
| 151° | 12.1   | 15.9 | 16.2   | 15.1 | 14.7   | 13.1 |
| 152° | 11.8   | 15.5 | 15.9   | 14.8 | 14.2   | 13.1 |
| 153° | 11.2   | 15.2 | 15.5   | 14.6 | 13.9   | 12.9 |
| 154° | 10.7   | 15.0 | 15.5   | 14.6 | 13.9   | 13.0 |
| 155° | 10.9   | 14.6 | 15.2   | 14.6 | 13.9   | 13.0 |
| 156° | 11.0   | 14.5 | 14.8   | 14.6 | 14.0   | 13.1 |
| 157° | 11.1   | 14.4 | 14.7   | 14.6 | 14.0   | 13.2 |
| 158° | 11.3   | 14.2 | 14.7   | 14.6 | 14.0   | 13.3 |
| 159° | 11.4   | 14.1 | 14.6   | 14.6 | 14.0   | 13.3 |
| 160° | 11.5   | 13.9 | 14.5   | 14.6 | 14.1   | 13.4 |
| 161° | 11.6   | 13.8 | 14.5   | 14.6 | 14.2   | 13.4 |
| 162° | 11.8   | 13.6 | 14.3   | 14.6 | 14.6   | 13.6 |
| 163° | 12.1   | 13.4 | 14.1   | 14.6 | 15.1   | 13.8 |
| 164° | 12.3   | 13.4 | 14.1   | 14.6 | 15.8   | 13.9 |
| 165° | 12.7   | 13.2 | 14.1   | 14.6 | 16.0   | 14.6 |
| 166° | 13.0   | 13.1 | 14.1   | 14.6 | 16.5   | 15.0 |
| 167° | 13.2   | 13.1 | 14.1   | 14.7 | 17.2   | 15.5 |
| 168° | 13.3   | 12.9 | 14.0   | 14.7 | 17.5   | 16.0 |
| 169° | 13.5   | 13.1 | 14.0   | 14.7 | 18.4   | 16.1 |
| 170° | 13.7   | 12.9 | 14.0   | 14.8 | 18.7   | 16.1 |
| 171° | 13.9   | 12.9 | 14.0   | 14.9 | 18.9   | 16.1 |
| 172° | 14.6   | 12.8 | 14.0   | 15.8 | 19.1   | 16.2 |
| 173° | 15.3   | 12.8 | 14.0   | 16.3 | 19.1   | 16.2 |
| 174° | 15.6   | 12.8 | 14.0   | 16.5 | 19.3   | 16.3 |
| 175° | 15.5   | 12.8 | 14.0   | 16.9 | 19.1   | 16.3 |
| 176° | 15.5   | 12.7 | 13.9   | 17.0 | 19.1   | 16.3 |
| 177° | 15.5   | 12.7 | 13.9   | 17.2 | 19.1   | 16.4 |
| 178° | 15.5   | 12.5 | 13.9   | 17.0 | 19.1   | 16.4 |
| 179° | 15.5   | 13.4 | 13.9   | 17.0 | 19.4   | 16.4 |



TEST NUMBER: P600960  
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

**CANDELA DISTRIBUTION (continued):**

|      |        |      |        |      |        |      |
|------|--------|------|--------|------|--------|------|
|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
| 180° | 16.4   | 16.4 | 16.4   | 16.4 | 16.4   | 16.4 |

(END OF REPORT)