

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: P600964

Luminaire Tested: 8APVTLD-SL3C3 HI POWER 4000K 277V

Issue Date: 1/11/2023

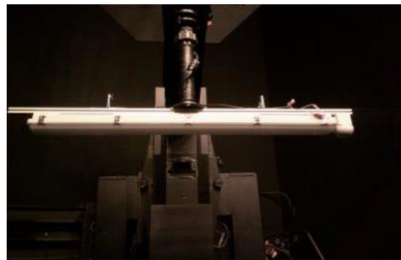
Test Information

Test Method: LM-79-2019
Report Number: P600964
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: 8APVTLTLD-SL3C3 HI POWER 4000K 277V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

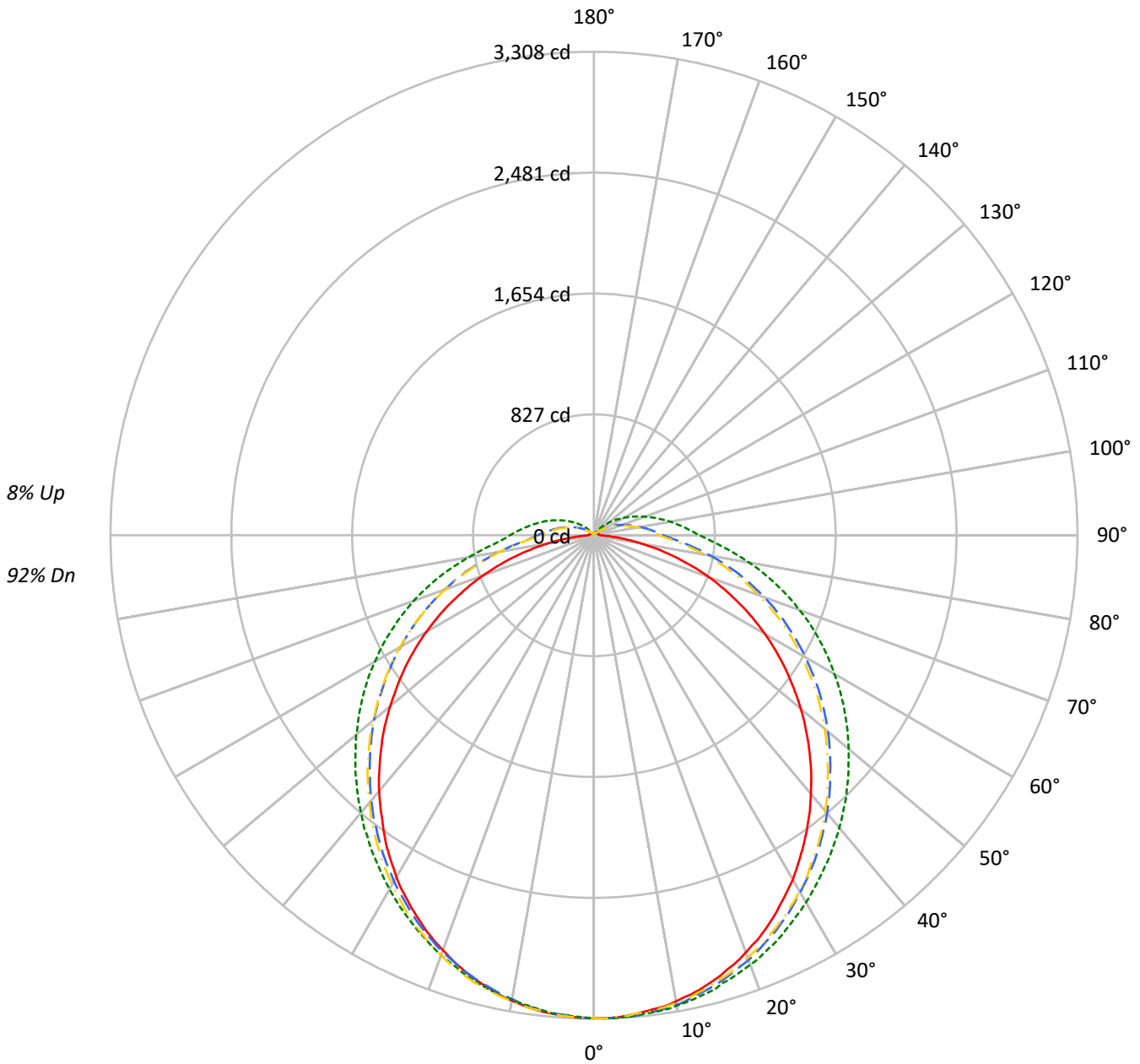
Lumens per Lamp: N/A
Luminaire Lumens: 11249.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 92
Input Voltage (V): 277
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



TEST NUMBER: P600964
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

Luminous Intensity Polar Plot



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



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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	77	77	77	77	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	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	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°	13334	13334	13334	13334
5°	13308	13076	13304	13021
10°	13248	12831	13227	12669
15°	13150	12585	13099	12360
20°	12998	12313	12926	12041
25°	12822	12072	12736	11708
30°	12605	11817	12516	11387
35°	12333	11576	12226	11090
40°	12064	11380	11943	10794
45°	11773	11176	11616	10539
50°	11459	11006	11288	10269
55°	11111	10855	10940	10020
60°	10720	10707	10517	9752
65°	10222	10591	9980	9467
70°	9573	10459	9308	9183
75°	8650	10389	8315	8808
80°	7368	10378	6969	8389
85°	5802	10576	5248	8240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 16391 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	2.8
10°-20°	893.2	7.9
20°-30°	1351.4	12.0
30°-40°	1633.0	14.5
40°-50°	1718.8	15.3
50°-60°	1614.8	14.4
60°-70°	1346.9	12.0
70°-80°	961.6	8.5
80°-90°	566.7	5.0
90°-100°	354.5	3.2
100°-110°	233.7	2.1
110°-120°	138.8	1.2
120°-130°	71.9	0.6
130°-140°	29.2	0.3
140°-150°	10.7	0.1
150°-160°	6.3	0.1
160°-170°	4.0	0.0
170°-180°	1.4	0.0
0°-30°	2557.0	22.7
0°-40°	4190.0	37.2
0°-60°	7523.6	66.9
0°-90°	10398.7	92.4
90°-120°	727.0	6.5
90°-150°	838.8	7.5
90°-180°	850.0	7.6
0°-180°	11249.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3303	3303	3303	3303	3303	
5°	3288	3298	3286	3284	3288	312
15°	3156	3213	3143	3156	3156	890
25°	2893	3027	2874	2935	2893	1332
35°	2521	2760	2499	2644	2521	1577
45°	2084	2447	2056	2308	2084	1608
55°	1602	2093	1578	1932	1602	1432
65°	1094	1703	1068	1523	1094	1082
75°	576	1288	554	1092	576	611
85°	140	881	127	686	140	156
90°	42	723	38	574	42	26
95°	36	621	33	494	36	29
105°	31	449	29	360	31	33
115°	26	302	25	240	26	26
125°	21	184	21	140	21	19
135°	17	91	14	61	17	13
145°	14	23	12	17	14	9
155°	12	13	11	14	12	6
165°	14	13	15	13	14	4
175°	16	13	18	12	16	1
180°	16	16	16	16	16	



TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
1°	3304.5	3302.6	3307.5	3304.1	3305.7	3300.4	3306.3	3300.4	3302.2	3304.5	3301.2
2°	3304.5	3302.4	3304.7	3304.3	3307.5	3301.6	3303.9	3299.1	3301.0	3305.1	3303.8
3°	3301.2	3302.0	3303.8	3305.5	3305.3	3300.0	3296.9	3299.1	3298.3	3302.0	3289.4
4°	3294.7	3295.5	3303.2	3298.5	3303.0	3292.6	3297.1	3295.3	3292.6	3293.4	3287.3
5°	3287.5	3293.0	3300.4	3299.2	3297.7	3293.0	3285.5	3291.6	3286.3	3281.4	3281.0
6°	3278.1	3284.5	3293.6	3294.5	3292.0	3286.5	3284.4	3283.6	3280.2	3272.2	3272.0
7°	3270.6	3275.9	3286.3	3282.0	3289.1	3276.5	3277.3	3274.4	3271.8	3264.4	3264.4
8°	3262.6	3270.0	3279.6	3280.2	3285.3	3273.0	3268.5	3259.3	3262.0	3254.4	3255.0
9°	3254.6	3257.7	3271.6	3274.9	3279.8	3265.5	3259.7	3250.1	3246.9	3244.2	3239.1
10°	3238.1	3245.4	3262.8	3264.8	3268.5	3251.0	3246.5	3237.1	3233.0	3229.5	3223.2
11°	3222.2	3231.6	3251.0	3254.8	3259.3	3241.4	3236.5	3225.2	3222.2	3212.4	3210.1
12°	3209.7	3217.1	3235.0	3244.4	3248.5	3231.0	3223.8	3208.3	3203.0	3195.0	3193.4
13°	3194.0	3200.7	3216.5	3233.6	3236.1	3217.7	3206.4	3191.3	3181.7	3177.9	3175.0
14°	3174.0	3186.6	3204.4	3218.3	3224.8	3206.4	3194.4	3175.0	3164.6	3153.2	3160.3
15°	3155.6	3169.7	3188.9	3203.4	3213.2	3193.2	3175.8	3157.0	3143.4	3132.7	3140.5
16°	3136.0	3151.1	3171.5	3190.1	3188.3	3180.1	3157.6	3130.9	3123.1	3109.3	3121.5
17°	3109.7	3126.4	3152.3	3170.3	3178.1	3159.1	3140.7	3112.3	3099.2	3088.8	3099.7
18°	3089.9	3104.1	3131.9	3157.6	3161.1	3143.8	3123.8	3089.0	3076.0	3066.0	3074.3
19°	3065.4	3082.7	3110.5	3139.3	3143.1	3127.2	3095.8	3059.8	3047.8	3042.7	3054.1
20°	3037.4	3057.2	3092.9	3121.7	3127.2	3109.5	3075.6	3037.0	3020.6	3011.6	3032.1
21°	3010.2	3037.6	3070.9	3098.0	3112.7	3085.6	3053.5	3016.1	2995.9	2984.7	3006.7
22°	2985.7	3010.6	3044.7	3076.4	3090.3	3062.9	3032.9	2987.4	2967.1	2955.9	2979.0
23°	2955.7	2980.8	3018.8	3059.6	3068.2	3049.8	3007.6	2960.8	2939.6	2928.5	2950.4
24°	2925.1	2949.6	2996.1	3035.7	3049.4	3024.5	2980.8	2933.8	2905.7	2898.5	2924.1
25°	2893.0	2919.6	2970.6	3011.8	3026.6	3003.1	2956.5	2900.0	2873.6	2872.0	2894.9
26°	2858.7	2888.5	2941.0	2990.4	3001.0	2974.3	2931.0	2873.6	2840.3	2838.1	2862.0
27°	2822.2	2859.7	2915.7	2962.6	2976.1	2950.8	2903.0	2840.3	2807.5	2805.6	2830.5
28°	2788.5	2827.9	2884.4	2938.3	2950.8	2925.1	2871.4	2806.6	2773.6	2770.5	2798.1
29°	2755.0	2795.8	2854.2	2906.3	2928.1	2899.3	2844.6	2770.3	2739.9	2736.6	2769.5
30°	2720.7	2760.3	2822.2	2881.0	2901.2	2870.5	2811.3	2730.3	2701.5	2698.6	2735.6
31°	2681.3	2725.0	2791.1	2853.0	2875.5	2843.2	2779.5	2700.1	2661.0	2665.9	2698.6
32°	2640.8	2689.4	2758.7	2827.3	2845.6	2810.7	2751.3	2665.5	2622.3	2625.5	2666.6
33°	2601.6	2651.5	2727.4	2798.3	2817.0	2782.1	2711.9	2626.1	2583.9	2589.6	2631.8
34°	2563.0	2614.7	2695.4	2768.5	2789.3	2755.2	2677.2	2587.3	2545.3	2548.9	2596.1
35°	2521.0	2577.3	2660.6	2736.6	2760.5	2724.6	2644.5	2550.0	2499.3	2505.5	2559.4
36°	2481.2	2535.9	2626.3	2705.4	2734.4	2691.1	2609.6	2511.6	2457.1	2467.3	2521.2
37°	2438.9	2497.7	2590.8	2674.9	2702.1	2660.4	2575.9	2472.0	2411.9	2426.6	2484.8
38°	2398.2	2459.9	2554.1	2641.6	2672.1	2627.4	2536.1	2427.9	2370.7	2388.2	2448.7
39°	2352.7	2420.3	2519.5	2610.6	2643.7	2595.7	2499.3	2388.5	2328.0	2345.2	2408.5
40°	2309.6	2379.9	2481.2	2577.5	2612.7	2561.8	2463.4	2348.6	2286.4	2302.9	2369.3
41°	2265.3	2339.2	2443.8	2544.9	2580.8	2530.2	2422.5	2308.2	2242.7	2261.0	2330.5
42°	2222.8	2292.3	2405.6	2511.4	2546.9	2495.4	2385.6	2262.7	2197.3	2217.7	2290.4
43°	2177.3	2251.8	2366.2	2477.5	2516.3	2462.2	2345.6	2219.4	2149.9	2170.8	2245.7
44°	2130.6	2209.8	2327.0	2443.0	2484.6	2428.3	2302.3	2175.9	2104.4	2128.1	2208.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	2083.8	2165.5	2286.4	2408.9	2447.3	2389.7	2263.9	2129.5	2056.0	2085.8	2168.3
46°	2037.4	2120.6	2248.4	2374.0	2415.2	2357.2	2222.6	2086.6	2013.8	2040.7	2128.1
47°	1988.8	2076.6	2209.4	2339.4	2381.9	2322.5	2180.6	2038.1	1966.4	1993.3	2086.0
48°	1943.7	2032.5	2168.5	2303.7	2343.5	2283.9	2143.2	1993.7	1918.3	1945.6	2047.4
49°	1896.1	1984.6	2131.8	2265.9	2309.2	2245.9	2102.6	1951.1	1869.0	1899.8	2003.8
50°	1847.4	1941.6	2089.3	2230.2	2274.9	2210.2	2060.9	1901.7	1819.8	1855.0	1964.5
51°	1798.8	1895.7	2048.7	2194.3	2238.6	2171.0	2018.9	1856.5	1769.5	1809.1	1921.6
52°	1749.2	1848.3	2009.3	2158.3	2202.6	2134.4	1976.6	1809.6	1718.5	1760.4	1878.4
53°	1699.9	1801.5	1968.4	2123.6	2167.3	2095.6	1936.2	1763.4	1673.3	1714.3	1835.4
54°	1650.7	1753.4	1927.1	2080.9	2129.5	2059.9	1894.8	1718.4	1625.1	1666.8	1788.8
55°	1602.4	1706.0	1884.8	2044.6	2093.2	2019.3	1850.3	1668.5	1577.7	1618.8	1749.5
56°	1552.6	1658.6	1842.0	2005.8	2055.4	1979.5	1806.5	1620.3	1527.9	1567.9	1703.9
57°	1502.5	1613.9	1800.3	1966.6	2017.0	1940.8	1764.5	1573.2	1477.0	1518.8	1660.6
58°	1451.7	1566.5	1755.5	1924.5	1979.2	1902.3	1718.9	1525.3	1428.4	1470.7	1617.8
59°	1401.5	1520.0	1713.0	1884.0	1940.8	1862.7	1680.2	1478.4	1375.8	1423.8	1571.9
60°	1351.8	1472.8	1671.1	1843.4	1900.5	1821.7	1635.3	1429.4	1326.3	1378.1	1526.0
61°	1301.0	1423.7	1629.3	1803.8	1862.3	1779.5	1594.5	1382.1	1275.6	1329.9	1484.8
62°	1249.0	1377.4	1586.3	1765.1	1823.9	1737.9	1550.0	1334.7	1223.5	1284.0	1439.6
63°	1197.6	1328.7	1542.9	1722.4	1785.2	1697.0	1506.1	1286.1	1172.1	1234.3	1396.7
64°	1145.3	1281.3	1499.2	1683.0	1744.5	1657.0	1464.6	1240.1	1120.2	1184.5	1352.6
65°	1094.2	1232.4	1456.4	1640.5	1703.3	1612.0	1419.4	1191.9	1068.2	1137.8	1306.5
66°	1041.7	1186.4	1416.7	1600.3	1663.7	1573.8	1376.9	1143.8	1013.9	1090.7	1263.2
67°	990.3	1139.2	1370.8	1560.3	1623.0	1533.2	1332.6	1097.0	964.0	1043.0	1219.8
68°	938.6	1090.3	1327.8	1514.1	1583.3	1490.4	1288.3	1050.5	912.7	992.3	1174.0
69°	887.1	1043.3	1284.4	1476.1	1540.3	1449.0	1244.6	1000.2	861.7	947.3	1128.9
70°	834.4	996.9	1238.8	1430.1	1494.9	1407.8	1201.7	955.0	811.3	900.3	1086.5
71°	782.4	948.0	1196.6	1387.2	1457.0	1366.0	1156.6	907.4	757.0	852.5	1041.4
72°	730.9	903.0	1153.1	1344.7	1415.3	1323.4	1113.4	861.9	706.5	806.5	999.0
73°	678.8	854.9	1111.6	1299.4	1373.1	1280.7	1071.8	814.8	655.3	759.1	954.9
74°	626.5	810.8	1068.1	1258.1	1329.7	1238.9	1026.0	769.9	604.8	713.8	912.9
75°	576.2	765.3	1026.0	1212.8	1287.7	1197.2	983.6	723.9	553.9	669.9	868.0
76°	526.6	720.8	983.0	1171.6	1244.1	1154.3	939.4	677.6	505.2	624.6	825.0
77°	476.6	677.3	937.1	1129.1	1204.2	1114.3	899.9	634.4	456.3	582.1	783.2
78°	428.4	633.5	896.7	1085.5	1163.4	1069.3	854.5	590.6	409.9	539.8	741.2
79°	382.1	591.9	855.9	1046.4	1120.4	1030.2	815.7	548.5	363.3	498.1	701.5
80°	335.7	550.4	813.1	1005.2	1079.5	986.3	773.1	507.6	317.5	459.1	661.5
81°	292.9	511.6	770.7	964.6	1036.6	946.9	733.6	466.5	274.4	420.4	623.4
82°	251.4	471.4	731.9	925.0	996.4	908.9	694.2	427.9	232.2	383.7	586.2
83°	211.3	432.8	692.5	883.7	955.8	870.8	657.8	391.4	193.9	349.5	551.7
84°	175.0	397.2	652.4	844.6	919.0	831.8	620.2	356.8	158.6	316.2	518.3
85°	140.2	362.7	617.9	806.1	880.9	796.3	586.3	323.0	126.8	286.3	488.2
86°	109.7	328.7	584.0	771.2	845.5	762.2	555.0	291.7	98.1	258.1	459.7
87°	84.0	298.3	551.9	735.6	810.1	728.2	522.1	262.9	73.6	232.6	435.0
88°	64.4	272.1	524.2	703.6	780.5	697.8	494.4	238.0	56.4	214.6	415.4
89°	49.0	250.5	498.1	674.6	749.4	667.6	468.0	218.2	44.4	198.9	400.1

TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	42.3	232.4	475.3	648.6	723.1	644.3	449.3	201.6	38.4	187.9	385.5
91°	39.9	217.2	456.1	626.6	698.2	620.5	430.0	188.5	37.2	176.9	371.2
92°	38.9	205.6	439.2	607.3	677.7	602.9	414.1	178.5	35.8	167.0	358.3
93°	37.9	193.9	423.3	588.5	658.7	583.1	398.6	168.0	35.0	157.1	345.2
94°	37.0	183.0	407.9	571.6	638.6	566.2	385.8	158.4	34.3	147.7	331.5
95°	36.3	172.4	393.6	554.9	620.6	548.7	371.3	148.1	33.1	139.5	318.0
96°	35.3	163.1	379.1	538.1	601.6	532.5	358.8	139.2	32.6	131.0	305.7
97°	34.8	153.9	363.8	522.2	583.7	515.1	344.2	130.8	31.9	123.0	293.2
98°	34.0	144.8	349.3	506.2	566.0	498.3	331.2	122.4	31.2	115.6	282.9
99°	33.8	136.6	336.1	490.1	548.6	481.3	317.5	114.5	30.4	108.2	270.9
100°	33.5	128.7	322.8	474.7	531.2	464.9	305.7	107.9	30.1	100.9	259.9
101°	32.9	121.2	309.2	458.2	514.4	451.0	293.0	101.2	29.9	95.2	249.6
102°	32.3	114.5	297.5	442.3	497.0	435.0	279.2	94.6	29.4	88.8	238.8
103°	31.8	107.8	284.3	427.1	480.8	420.7	267.6	88.1	29.4	82.9	228.3
104°	31.3	101.4	272.7	411.5	463.6	406.2	255.6	82.3	29.4	78.0	218.9
105°	30.7	95.2	261.7	397.3	448.6	391.7	244.3	76.5	29.2	72.4	207.8
106°	30.4	89.4	250.2	382.6	432.5	376.3	232.7	71.2	28.9	67.2	198.9
107°	29.9	83.7	238.8	367.3	416.9	361.3	223.0	66.6	27.9	61.9	189.1
108°	29.5	78.1	229.1	353.0	401.2	346.5	211.1	61.6	27.7	57.7	179.7
109°	28.9	72.9	218.8	339.8	387.1	333.7	203.1	57.1	27.7	53.7	171.2
110°	28.4	67.6	208.1	326.0	371.5	319.4	192.1	52.8	27.3	49.3	162.1
111°	27.7	63.2	198.3	312.0	357.8	307.4	183.3	48.7	26.8	45.5	154.0
112°	27.5	58.6	188.4	299.2	342.9	294.7	173.1	44.5	26.5	41.3	146.4
113°	27.2	54.5	178.4	286.7	329.2	282.0	163.7	41.0	26.7	37.8	138.0
114°	26.5	50.4	169.9	274.1	316.2	269.3	155.5	37.0	25.8	34.9	130.5
115°	26.0	46.4	161.2	261.9	302.3	257.0	146.9	33.9	25.3	31.5	122.5
116°	25.6	42.4	152.1	250.6	289.8	244.4	138.9	30.9	24.8	28.6	114.9
117°	25.3	39.0	144.1	238.3	276.1	233.3	131.4	28.1	24.3	26.2	108.2
118°	24.8	36.0	135.7	227.6	264.5	222.5	122.9	25.8	24.0	24.1	100.4
119°	24.3	32.9	127.7	216.6	252.0	211.1	115.7	24.3	23.6	24.0	94.3
120°	23.9	30.0	120.3	205.3	240.0	200.4	107.8	24.0	23.4	22.9	87.3
121°	23.4	28.2	113.3	195.2	228.5	189.1	100.4	24.0	22.6	22.3	80.6
122°	22.9	27.3	105.7	185.1	217.9	180.0	93.9	22.8	22.1	21.7	74.7
123°	21.9	27.0	98.3	174.9	205.2	169.6	86.1	22.6	21.9	21.7	67.9
124°	21.2	26.8	91.3	165.1	195.2	159.4	80.3	22.0	21.4	21.2	62.3
125°	20.9	26.0	84.9	155.6	184.0	150.8	73.3	21.5	20.7	21.1	56.6
126°	20.4	25.5	78.2	146.4	174.1	141.0	67.4	21.5	20.0	20.4	51.4
127°	20.0	25.0	72.0	137.2	163.6	131.9	61.3	21.1	19.0	19.9	46.7
128°	19.7	24.3	65.8	128.4	154.3	123.8	55.4	20.4	18.3	19.4	40.9
129°	19.4	23.8	59.5	119.5	144.0	114.6	50.6	19.9	17.3	19.0	36.2
130°	18.9	23.6	54.2	111.3	135.1	106.8	45.3	19.1	16.8	18.5	31.8
131°	18.5	22.9	48.7	103.0	125.2	98.1	40.0	18.8	16.3	18.3	27.2
132°	18.0	22.4	43.5	95.1	117.3	90.5	35.3	18.6	15.8	17.8	23.6
133°	17.5	21.6	38.8	87.2	107.7	82.9	30.7	18.4	15.6	17.2	19.4
134°	17.3	21.4	34.1	79.6	99.7	75.3	26.6	17.9	14.4	17.0	17.0



TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	16.8	20.6	29.6	72.3	91.1	68.4	23.0	17.1	13.9	16.3	16.0
136°	16.5	20.5	25.6	65.2	82.6	61.4	19.3	16.9	13.8	16.0	15.7
137°	16.3	20.0	22.5	58.5	75.1	55.2	18.1	16.4	13.6	15.6	15.3
138°	16.0	19.7	21.3	52.7	67.2	49.2	17.3	16.1	13.1	15.5	14.5
139°	15.8	19.0	20.8	46.7	60.2	43.2	16.4	15.7	13.1	15.3	14.0
140°	15.3	18.9	20.3	40.8	53.6	37.5	16.1	15.5	12.9	14.4	13.3
141°	15.1	18.2	19.8	35.2	46.7	32.4	15.7	14.9	12.6	14.1	13.1
142°	14.9	18.0	19.6	30.1	40.2	27.2	15.4	14.4	11.9	13.8	12.9
143°	14.6	17.7	18.9	25.0	34.4	22.8	14.5	14.0	11.5	13.6	12.1
144°	14.3	17.2	18.6	21.3	28.4	19.0	14.3	13.5	11.5	13.5	11.4
145°	14.0	16.6	18.1	19.7	23.2	16.8	13.8	13.3	11.5	13.4	11.3
146°	13.7	16.3	17.7	19.1	18.5	16.1	13.7	13.0	11.5	13.3	11.1
147°	13.4	15.6	17.2	18.6	16.5	16.0	13.5	13.0	11.5	13.2	11.2
148°	13.2	15.5	17.1	18.6	16.1	16.1	13.4	12.8	11.4	13.1	11.2
149°	12.9	15.2	16.4	18.1	15.6	15.8	13.4	12.9	11.4	13.0	11.3
150°	12.9	15.0	16.0	18.0	15.3	15.6	13.3	12.9	11.4	12.9	11.4
151°	12.6	14.7	15.9	17.4	14.8	14.9	13.3	12.9	11.4	12.9	11.4
152°	12.5	14.5	15.9	17.1	14.2	14.6	13.2	13.0	11.3	12.9	11.5
153°	12.5	14.3	15.5	16.9	13.7	14.2	13.2	13.0	11.3	12.9	11.6
154°	12.5	14.2	15.5	16.8	13.4	14.1	13.1	13.0	11.3	12.9	11.6
155°	12.5	14.2	15.5	16.2	13.1	13.4	12.6	13.0	11.3	12.9	11.7
156°	12.5	14.1	15.5	16.2	13.1	13.2	12.7	13.1	11.3	12.9	11.8
157°	12.4	14.1	15.5	15.9	13.0	13.2	12.7	13.1	11.4	12.9	11.8
158°	12.4	14.1	15.4	15.9	13.0	13.2	12.8	13.1	11.6	12.9	11.9
159°	12.4	14.0	15.4	15.6	13.0	13.1	12.8	13.1	11.8	13.1	12.0
160°	12.4	14.0	15.4	15.6	13.0	13.1	12.8	13.2	12.0	13.3	12.0
161°	13.1	13.9	15.4	15.4	12.9	13.1	13.0	13.2	12.2	13.4	12.1
162°	13.1	13.9	15.4	15.2	12.9	13.0	13.3	13.9	13.1	14.1	13.0
163°	13.2	14.3	15.3	15.0	12.9	13.0	13.3	14.5	13.9	14.4	13.7
164°	13.6	14.1	15.3	14.7	12.9	13.0	13.4	14.9	14.3	14.6	14.0
165°	14.1	14.1	15.3	14.9	12.8	12.9	13.4	15.0	14.8	14.9	14.5
166°	14.4	14.6	15.3	14.5	12.8	12.9	13.4	15.1	15.4	15.1	15.0
167°	14.8	15.1	15.3	14.4	12.8	12.8	13.4	15.2	16.1	15.5	15.7
168°	15.1	15.3	15.3	14.4	12.8	12.8	13.4	15.3	16.5	15.8	16.4
169°	15.5	15.4	15.2	14.3	12.7	12.8	13.4	15.4	16.8	16.0	17.1
170°	15.6	15.5	15.2	14.2	12.7	12.7	13.4	15.5	17.3	15.9	17.6
171°	15.6	15.7	15.2	14.1	12.7	12.7	13.4	15.5	17.5	15.9	18.3
172°	15.7	15.8	15.2	14.0	12.7	12.7	13.4	15.6	17.8	15.9	18.6
173°	15.7	16.0	15.1	13.3	12.6	12.6	13.5	15.9	18.0	15.9	18.4
174°	15.7	16.0	15.1	13.0	12.6	12.6	13.5	16.2	18.2	15.9	18.4
175°	15.7	16.3	15.1	13.0	12.6	12.6	13.5	16.1	18.3	15.8	18.6
176°	15.8	16.6	15.0	13.0	12.6	12.5	13.5	16.1	18.5	15.8	18.1
177°	15.8	16.8	15.0	12.8	12.5	12.4	13.5	16.1	18.7	15.8	17.6
178°	15.8	16.6	15.0	12.8	12.7	12.7	13.5	16.1	18.7	15.8	17.4
179°	15.8	16.8	15.0	12.8	13.2	12.5	13.5	16.1	18.7	15.8	17.2



TEST NUMBER: P600964
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8



TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
1°	3304.3	3301.4	3301.8	3297.5	3303.9	3304.5
2°	3296.7	3296.3	3297.3	3302.8	3303.9	3304.5
3°	3294.2	3293.4	3292.4	3298.1	3300.4	3301.2
4°	3288.5	3288.1	3285.7	3294.0	3292.2	3294.7
5°	3281.0	3283.8	3280.4	3283.0	3284.0	3287.5
6°	3272.6	3271.4	3277.5	3276.5	3280.0	3278.1
7°	3262.2	3260.1	3265.1	3269.8	3271.0	3270.6
8°	3255.0	3249.1	3255.9	3261.8	3260.8	3262.6
9°	3242.0	3241.8	3243.8	3250.8	3246.9	3254.6
10°	3232.2	3227.3	3232.4	3239.5	3231.8	3238.1
11°	3213.0	3221.1	3223.0	3225.2	3216.2	3222.2
12°	3204.0	3205.6	3207.3	3213.4	3203.0	3209.7
13°	3183.0	3189.9	3194.8	3197.9	3185.2	3194.0
14°	3165.2	3173.6	3179.3	3181.3	3167.2	3174.0
15°	3155.0	3156.0	3164.2	3166.6	3144.6	3155.6
16°	3133.5	3139.9	3144.6	3148.3	3123.7	3136.0
17°	3115.6	3119.3	3126.8	3129.1	3099.9	3109.7
18°	3093.1	3095.8	3109.7	3105.4	3075.8	3089.9
19°	3073.7	3077.6	3091.5	3083.3	3050.9	3065.4
20°	3049.4	3058.2	3064.5	3057.4	3028.0	3037.4
21°	3026.1	3035.5	3041.9	3032.7	2999.4	3010.2
22°	3002.7	3010.8	3016.1	3008.8	2969.8	2985.7
23°	2976.7	2984.3	2987.8	2977.1	2939.2	2955.7
24°	2953.9	2961.2	2964.1	2951.4	2907.3	2925.1
25°	2925.7	2935.3	2940.8	2921.4	2875.5	2893.0
26°	2895.3	2908.3	2911.4	2889.5	2844.0	2858.7
27°	2867.3	2882.8	2882.6	2861.2	2811.1	2822.2
28°	2841.1	2855.4	2856.5	2825.2	2779.5	2788.5
29°	2814.4	2826.6	2824.6	2794.8	2745.2	2755.0
30°	2780.5	2795.8	2793.0	2761.7	2709.8	2720.7
31°	2750.5	2766.2	2761.1	2726.8	2674.7	2681.3
32°	2721.3	2735.8	2728.6	2693.7	2638.6	2640.8
33°	2688.8	2705.0	2697.6	2660.0	2601.4	2601.6
34°	2656.3	2673.7	2665.7	2619.4	2561.6	2563.0
35°	2625.9	2644.5	2633.1	2585.5	2521.0	2521.0
36°	2588.8	2612.2	2598.6	2545.9	2480.1	2481.2
37°	2557.1	2576.9	2566.3	2507.9	2438.9	2438.9
38°	2518.3	2550.8	2532.0	2471.2	2397.6	2398.2
39°	2487.1	2513.2	2497.3	2428.5	2356.2	2352.7
40°	2449.7	2478.1	2464.0	2388.2	2313.9	2309.6
41°	2417.4	2445.8	2430.3	2348.6	2269.8	2265.3
42°	2384.0	2410.7	2396.4	2310.6	2224.5	2222.8
43°	2343.7	2377.6	2352.3	2271.6	2181.2	2177.3
44°	2308.8	2339.9	2319.2	2228.6	2136.7	2130.6

TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2272.9	2307.8	2281.9	2185.3	2090.5	2083.8
46°	2233.3	2269.6	2244.7	2142.0	2045.2	2037.4
47°	2197.3	2231.6	2204.7	2102.2	1997.6	1988.8
48°	2159.1	2194.5	2164.5	2060.9	1951.2	1943.7
49°	2119.9	2160.2	2128.9	2017.8	1905.8	1896.1
50°	2081.3	2122.4	2085.4	1974.1	1860.3	1847.4
51°	2044.4	2080.9	2043.4	1927.2	1811.0	1798.8
52°	2001.5	2045.2	2007.6	1883.8	1762.1	1749.2
53°	1965.8	2009.1	1967.6	1843.1	1717.5	1699.9
54°	1922.5	1970.1	1926.9	1799.2	1669.1	1650.7
55°	1880.4	1932.1	1886.1	1755.6	1620.2	1602.4
56°	1842.1	1892.7	1843.3	1711.3	1573.5	1552.6
57°	1801.0	1854.3	1804.3	1666.1	1525.7	1502.5
58°	1760.3	1814.6	1761.5	1623.4	1477.5	1451.7
59°	1717.8	1772.1	1720.0	1578.5	1427.5	1401.5
60°	1675.2	1731.0	1675.1	1531.3	1381.2	1351.8
61°	1633.9	1689.9	1632.8	1487.9	1332.6	1301.0
62°	1592.3	1649.8	1588.9	1442.0	1283.8	1249.0
63°	1549.5	1609.4	1547.9	1397.4	1234.8	1197.6
64°	1506.3	1566.5	1501.4	1353.9	1186.1	1145.3
65°	1463.2	1522.6	1460.1	1308.4	1138.0	1094.2
66°	1420.3	1480.8	1418.3	1262.1	1090.8	1041.7
67°	1377.4	1440.1	1373.7	1216.9	1041.5	990.3
68°	1333.3	1395.3	1331.9	1170.8	993.9	938.6
69°	1291.1	1355.0	1288.2	1125.7	944.9	887.1
70°	1246.8	1312.6	1243.8	1081.2	897.5	834.4
71°	1206.2	1266.5	1200.5	1036.7	849.9	782.4
72°	1162.4	1224.3	1158.4	993.0	803.9	730.9
73°	1119.0	1179.5	1115.2	947.6	757.2	678.8
74°	1075.4	1136.7	1072.5	903.2	709.7	626.5
75°	1031.1	1091.7	1029.1	860.0	664.9	576.2
76°	988.3	1046.6	986.2	817.2	622.3	526.6
77°	947.0	1002.1	943.8	775.2	576.6	476.6
78°	904.2	955.9	902.6	733.8	533.2	428.4
79°	863.8	913.5	861.4	692.9	491.2	382.1
80°	825.0	872.6	821.7	654.0	450.4	335.7
81°	784.9	830.3	780.6	615.7	411.4	292.9
82°	748.9	792.4	742.0	579.9	374.9	251.4
83°	714.8	754.4	704.7	544.4	338.5	211.3
84°	682.0	719.6	669.4	510.6	304.9	175.0
85°	650.2	686.3	637.5	479.3	272.3	140.2
86°	621.7	656.6	608.1	451.2	244.9	109.7
87°	595.9	631.3	582.7	425.8	220.5	84.0
88°	574.2	609.6	560.7	405.0	200.3	64.4
89°	556.9	591.1	542.8	387.3	183.1	49.0

TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	541.4	574.4	525.4	371.7	170.7	42.3
91°	525.2	557.6	508.2	357.7	160.3	39.9
92°	510.0	540.4	493.0	344.5	150.5	38.9
93°	494.3	524.6	477.9	331.4	141.7	37.9
94°	477.8	509.2	462.2	317.5	134.0	37.0
95°	462.2	494.2	447.0	304.7	126.0	36.3
96°	446.3	479.5	432.9	293.7	117.9	35.3
97°	432.2	465.0	419.2	281.9	110.6	34.8
98°	417.7	450.5	405.3	271.1	103.7	34.0
99°	402.9	437.3	392.0	259.8	97.2	33.8
100°	388.8	423.3	378.2	249.5	91.4	33.5
101°	375.0	409.6	364.3	238.5	85.9	32.9
102°	360.5	397.1	351.3	228.8	80.1	32.3
103°	348.3	384.9	339.6	218.6	75.1	31.8
104°	333.3	371.8	327.8	208.6	70.1	31.3
105°	321.3	360.1	316.8	198.6	65.2	30.7
106°	309.5	348.4	304.5	189.5	60.8	30.4
107°	296.7	336.3	291.7	180.1	56.9	29.9
108°	284.3	324.0	279.8	171.1	53.2	29.5
109°	271.5	310.5	268.2	162.9	49.4	28.9
110°	260.8	298.4	257.1	154.5	45.5	28.4
111°	249.3	286.3	245.8	146.1	42.6	27.7
112°	238.6	273.7	235.6	138.5	39.3	27.5
113°	228.2	261.7	224.7	130.9	36.4	27.2
114°	218.0	250.6	214.5	123.3	33.5	26.5
115°	206.4	240.1	204.6	116.7	31.3	26.0
116°	197.6	228.6	194.5	109.4	29.6	25.6
117°	187.5	218.7	184.3	102.6	29.2	25.3
118°	178.1	208.1	174.7	95.9	28.7	24.8
119°	168.2	197.8	165.2	89.5	28.1	24.3
120°	158.8	187.6	156.2	83.4	27.9	23.9
121°	149.7	177.7	147.5	76.7	27.2	23.4
122°	141.2	167.6	138.7	71.3	26.7	22.9
123°	132.1	158.5	130.4	65.2	26.5	21.9
124°	124.5	149.6	122.2	59.6	25.9	21.2
125°	115.7	140.2	114.4	54.5	25.5	20.9
126°	107.9	131.8	106.2	49.6	25.0	20.4
127°	100.6	123.1	98.2	44.5	24.3	20.0
128°	91.8	114.8	90.8	39.9	24.2	19.7
129°	84.9	106.4	83.1	35.8	23.3	19.4
130°	77.6	98.3	76.3	31.4	22.8	18.9
131°	70.6	90.6	69.4	27.6	22.5	18.5
132°	63.7	82.7	62.7	24.2	21.7	18.0
133°	56.8	75.4	57.1	22.2	21.3	17.5
134°	51.5	68.3	51.0	21.5	20.8	17.3

TEST NUMBER: P600964

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	45.3	61.3	45.0	20.9	20.5	16.8
136°	39.2	55.5	39.6	20.5	19.9	16.5
137°	34.3	49.0	34.5	20.3	19.3	16.3
138°	28.5	43.1	29.5	19.7	18.9	16.0
139°	23.8	37.3	25.1	19.0	18.2	15.8
140°	19.2	31.9	21.1	18.6	17.6	15.3
141°	15.7	26.8	18.9	18.3	17.4	15.1
142°	14.5	22.4	18.4	18.0	16.9	14.9
143°	14.5	18.9	18.2	17.4	16.6	14.6
144°	14.0	18.1	17.8	16.9	16.1	14.3
145°	13.5	17.4	17.3	16.2	15.7	14.0
146°	13.5	17.2	17.0	15.9	15.5	13.7
147°	13.3	16.5	16.6	15.4	15.2	13.4
148°	13.2	16.3	16.5	15.0	14.9	13.2
149°	12.6	16.0	16.1	14.9	14.4	12.9
150°	12.1	15.6	16.0	14.7	14.4	12.9
151°	11.8	15.3	15.6	14.2	14.2	12.6
152°	11.4	15.0	15.1	14.0	13.9	12.5
153°	10.8	14.6	15.1	13.8	13.9	12.5
154°	10.6	14.3	14.9	14.0	14.0	12.5
155°	10.4	14.1	14.8	14.0	14.0	12.5
156°	10.5	13.8	14.6	14.0	14.0	12.5
157°	10.5	13.9	14.4	14.0	14.1	12.4
158°	10.5	13.7	14.2	14.0	14.1	12.4
159°	10.5	13.6	14.1	14.0	14.2	12.4
160°	10.6	13.6	14.1	14.0	14.2	12.4
161°	10.6	13.2	13.7	14.0	14.3	13.1
162°	11.3	13.2	13.6	14.0	14.3	13.1
163°	11.6	13.1	13.7	14.0	14.4	13.2
164°	11.8	12.7	13.4	14.0	14.9	13.6
165°	12.1	12.7	13.4	14.0	15.4	14.1
166°	12.5	12.7	13.4	14.1	15.5	14.4
167°	12.7	12.6	13.4	14.1	16.4	14.8
168°	12.9	12.6	13.4	14.2	16.7	15.1
169°	13.1	12.6	13.4	14.2	17.2	15.5
170°	13.3	12.5	13.4	14.3	17.9	15.6
171°	13.5	12.2	13.4	14.4	18.4	15.6
172°	14.0	12.2	13.4	14.7	18.6	15.7
173°	14.7	12.1	13.4	15.9	18.4	15.7
174°	15.2	12.1	13.4	15.9	18.4	15.7
175°	15.0	12.1	13.4	16.1	18.6	15.7
176°	15.0	12.1	13.7	16.2	18.6	15.8
177°	15.0	12.0	13.6	16.2	18.6	15.8
178°	15.0	12.2	13.6	16.2	18.6	15.8
179°	15.0	12.7	13.6	16.2	18.6	15.8



TEST NUMBER: P600964
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	15.8	15.8	15.8	15.8	15.8	15.8

(END OF REPORT)