

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: P861217

Luminaire Tested: **8APVTLD-SL3C3 MID POWER 5000K 120V**

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: P861217
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 5000K 120V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

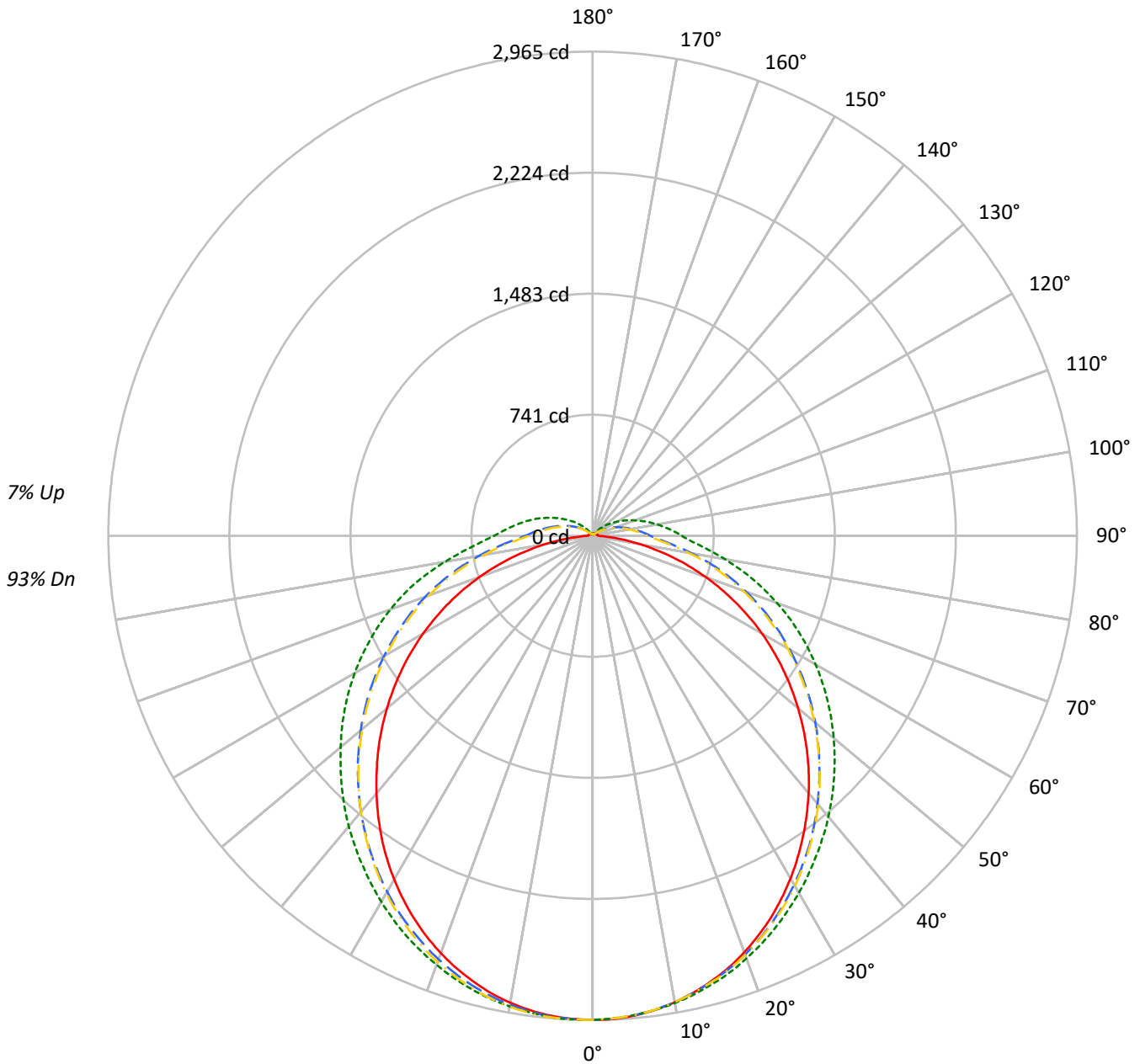
Lumens per Lamp: N/A
Luminaire Lumens: 10066.3 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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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°	11965	11965	11965	11965
5°	11940	11681	11940	11732
10°	11867	11406	11880	11488
15°	11755	11128	11772	11253
20°	11617	10844	11637	11008
25°	11438	10560	11466	10776
30°	11224	10286	11256	10541
35°	10988	10018	11019	10309
40°	10749	9781	10753	10116
45°	10480	9548	10482	9921
50°	10182	9319	10192	9749
55°	9860	9101	9872	9610
60°	9495	8882	9507	9476
65°	9025	8650	9043	9340
70°	8422	8400	8444	9209
75°	7577	8140	7596	9067
80°	6398	7899	6402	8835
85°	4863	7865	4838	8836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	2.8
10°-20°	801.4	8.0
20°-30°	1212.1	12.0
30°-40°	1464.6	14.5
40°-50°	1541.0	15.3
50°-60°	1447.3	14.4
60°-70°	1206.7	12.0
70°-80°	860.9	8.6
80°-90°	504.5	5.0
90°-100°	314.8	3.1
100°-110°	207.0	2.1
110°-120°	122.1	1.2
120°-130°	62.5	0.6
130°-140°	24.3	0.2
140°-150°	8.1	0.1
150°-160°	4.6	0.0
160°-170°	2.9	0.0
170°-180°	1.1	0.0
0°-30°	2293.9	22.8
0°-40°	3758.5	37.3
0°-60°	6746.9	67.0
0°-90°	9318.9	92.6
90°-120°	643.8	6.4
90°-150°	738.7	7.3
90°-180°	747.0	7.4
0°-180°	10066.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2964	2964	2964	2964	2964	
5°	2950	2946	2950	2959	2950	280
15°	2821	2841	2825	2873	2821	796
25°	2581	2648	2587	2702	2581	1188
35°	2246	2389	2252	2458	2246	1405
45°	1855	2091	1855	2172	1855	1431
55°	1422	1755	1424	1853	1422	1271
65°	966	1391	968	1502	966	956
75°	505	1009	506	1124	505	535
85°	118	655	117	736	118	132
90°	38	547	32	604	38	23
95°	32	471	26	520	32	26
105°	27	336	24	382	27	28
115°	22	221	20	259	22	22
125°	17	129	16	156	17	16
135°	13	57	11	74	13	10
145°	11	11	9	18	11	7
155°	9	8	9	12	9	4
165°	10	8	12	10	10	3
175°	12	8	15	9	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°	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2
1°	2964.4	2964.4	2964.4	2963.0	2962.7	2961.5	2962.7	2962.8	2963.6	2963.8	2964.4
2°	2963.6	2962.7	2961.9	2959.9	2959.4	2958.2	2959.8	2960.7	2962.3	2962.3	2963.2
3°	2960.5	2959.2	2958.0	2955.9	2955.9	2954.7	2956.7	2957.2	2959.6	2959.8	2960.9
4°	2955.3	2954.4	2953.4	2950.9	2951.5	2949.9	2952.2	2952.6	2955.3	2955.9	2958.2
5°	2949.5	2948.4	2947.0	2945.1	2945.9	2943.7	2946.4	2946.2	2949.5	2950.9	2954.7
6°	2942.0	2940.7	2940.1	2938.3	2939.5	2936.8	2940.7	2939.1	2943.5	2945.1	2949.3
7°	2933.1	2932.0	2931.2	2931.0	2932.4	2929.6	2932.5	2931.0	2935.4	2937.6	2941.6
8°	2923.5	2921.9	2921.7	2922.5	2924.2	2921.7	2921.9	2921.7	2925.8	2929.1	2933.7
9°	2912.9	2910.5	2911.5	2912.3	2915.4	2912.1	2911.1	2910.9	2915.4	2919.4	2925.2
10°	2900.5	2898.4	2899.3	2901.7	2905.5	2900.7	2899.3	2898.8	2903.8	2908.4	2915.8
11°	2886.8	2885.6	2886.8	2889.9	2894.7	2888.3	2886.8	2885.1	2890.9	2896.5	2904.4
12°	2871.8	2871.2	2872.7	2877.3	2882.8	2875.8	2873.5	2870.8	2876.8	2883.1	2892.8
13°	2855.7	2855.9	2858.0	2864.4	2869.2	2862.1	2858.8	2854.8	2861.1	2868.1	2879.5
14°	2839.1	2838.7	2842.0	2850.5	2855.3	2847.2	2843.2	2836.8	2843.8	2852.3	2865.6
15°	2820.8	2821.0	2825.0	2835.3	2841.3	2832.8	2827.6	2817.9	2824.9	2835.1	2850.7
16°	2802.1	2802.3	2807.9	2819.8	2826.2	2817.3	2810.6	2798.6	2805.4	2815.8	2834.3
17°	2782.8	2783.7	2789.5	2802.7	2810.4	2800.0	2791.9	2778.1	2785.9	2797.1	2817.7
18°	2761.2	2763.1	2770.6	2784.3	2792.6	2780.9	2772.0	2756.7	2765.0	2776.6	2798.4
19°	2738.6	2740.5	2750.9	2765.8	2773.5	2761.6	2752.1	2734.1	2742.6	2755.2	2779.5
20°	2714.8	2717.4	2729.5	2746.1	2754.2	2742.4	2731.1	2711.6	2719.3	2733.0	2759.6
21°	2689.8	2692.7	2706.9	2727.0	2734.0	2721.8	2709.3	2688.0	2694.8	2709.3	2739.0
22°	2663.7	2667.4	2684.0	2706.5	2713.9	2700.8	2685.9	2663.9	2669.3	2685.3	2717.2
23°	2636.7	2640.4	2659.5	2683.2	2692.7	2678.8	2662.5	2638.0	2642.7	2659.8	2694.8
24°	2608.9	2613.9	2633.8	2660.4	2670.7	2655.6	2638.2	2611.8	2614.5	2633.8	2671.8
25°	2580.7	2586.7	2608.1	2636.3	2647.5	2632.4	2612.9	2585.5	2586.9	2606.4	2647.7
26°	2551.2	2557.8	2580.7	2613.5	2624.7	2609.1	2587.3	2557.6	2556.6	2579.8	2623.0
27°	2519.7	2528.4	2553.3	2588.4	2600.4	2584.0	2561.0	2528.6	2526.3	2551.4	2598.1
28°	2488.7	2497.9	2524.9	2563.3	2575.9	2558.5	2534.0	2497.9	2494.6	2521.7	2571.5
29°	2455.5	2466.8	2496.6	2536.7	2551.0	2532.7	2506.2	2467.2	2462.8	2491.6	2544.6
30°	2422.5	2435.2	2466.7	2510.3	2525.3	2506.4	2476.3	2435.4	2429.6	2460.7	2516.3
31°	2389.3	2403.2	2436.9	2482.5	2499.5	2479.2	2446.2	2402.4	2397.0	2429.2	2488.3
32°	2353.8	2369.2	2407.0	2454.7	2472.3	2451.6	2415.9	2369.4	2362.2	2397.8	2458.9
33°	2318.8	2335.0	2375.2	2427.1	2444.3	2423.6	2384.1	2334.8	2326.2	2364.6	2428.8
34°	2282.9	2300.9	2344.3	2397.8	2416.7	2394.5	2352.2	2299.5	2290.6	2331.2	2399.5
35°	2246.1	2264.6	2313.0	2368.0	2388.9	2364.9	2320.0	2264.6	2252.4	2297.2	2368.4
36°	2209.4	2228.9	2280.0	2338.1	2361.5	2334.8	2286.8	2228.1	2214.8	2262.7	2336.6
37°	2172.0	2193.4	2246.6	2309.4	2332.9	2305.3	2252.4	2190.1	2176.4	2227.0	2304.7
38°	2133.5	2156.3	2212.3	2277.9	2305.1	2274.8	2219.0	2152.3	2137.6	2191.3	2272.3
39°	2095.3	2118.3	2178.1	2248.2	2275.8	2244.1	2183.7	2114.1	2098.4	2154.6	2239.3
40°	2057.7	2080.9	2141.5	2217.1	2245.7	2213.4	2148.6	2075.7	2058.5	2117.1	2206.5
41°	2018.7	2043.2	2107.1	2186.4	2215.4	2182.6	2112.9	2036.7	2018.5	2079.3	2172.3
42°	1978.2	2004.8	2070.6	2154.2	2185.1	2150.3	2076.2	1998.1	1978.2	2041.5	2137.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1855.0	1885.9	1963.3	2056.5	2090.7	2051.5	1963.3	1876.6	1855.4	1925.5	2032.6
46°	1813.4	1845.9	1927.0	2023.9	2058.7	2019.7	1925.1	1835.6	1814.0	1885.3	1997.7
47°	1771.0	1805.1	1890.3	1990.5	2026.1	1984.8	1886.9	1794.8	1771.6	1845.7	1962.0
48°	1728.1	1763.8	1853.7	1956.4	1993.4	1951.4	1849.1	1753.5	1729.5	1805.4	1926.0
49°	1684.9	1721.7	1817.2	1922.0	1960.0	1916.4	1809.6	1711.2	1686.1	1764.8	1889.7
50°	1641.6	1680.4	1779.7	1887.0	1926.1	1881.1	1771.3	1669.1	1643.1	1723.2	1853.2
51°	1597.8	1638.0	1741.4	1852.8	1893.5	1846.6	1732.3	1626.5	1600.5	1682.6	1817.3
52°	1554.0	1595.6	1703.5	1818.1	1858.2	1811.8	1693.8	1584.2	1556.3	1639.9	1779.3
53°	1510.8	1553.1	1665.9	1784.2	1824.8	1775.9	1654.5	1541.4	1512.4	1599.5	1741.9
54°	1465.6	1510.4	1627.4	1748.5	1790.1	1739.3	1615.8	1498.3	1468.1	1557.0	1704.5
55°	1421.9	1467.5	1588.7	1711.3	1755.0	1703.2	1576.6	1455.1	1423.6	1514.5	1667.4
56°	1377.3	1425.1	1550.3	1675.4	1719.7	1666.1	1536.2	1411.9	1379.4	1471.9	1628.8
57°	1333.0	1382.0	1510.3	1638.5	1684.4	1629.5	1497.3	1367.8	1334.4	1429.4	1590.7
58°	1287.7	1338.5	1471.5	1601.3	1648.5	1592.8	1456.9	1324.0	1289.4	1387.4	1552.2
59°	1242.3	1294.9	1432.2	1563.3	1613.3	1554.7	1418.1	1280.3	1244.1	1345.0	1513.8
60°	1197.4	1252.1	1393.6	1525.6	1576.6	1517.2	1377.8	1236.6	1198.9	1303.0	1476.0
61°	1151.2	1209.8	1354.3	1487.9	1540.5	1479.9	1337.9	1192.3	1152.7	1259.4	1437.9
62°	1105.7	1167.2	1315.1	1450.2	1503.0	1441.2	1297.7	1148.4	1106.8	1217.2	1398.3
63°	1058.6	1124.0	1276.0	1413.0	1466.3	1403.2	1258.3	1104.6	1060.1	1175.5	1360.4
64°	1013.1	1080.4	1236.7	1375.8	1429.2	1364.7	1218.9	1061.2	1014.5	1132.2	1321.9
65°	966.0	1037.6	1197.5	1338.3	1391.2	1326.5	1178.7	1018.1	968.0	1089.3	1283.7
66°	919.2	993.9	1158.3	1301.1	1354.2	1287.6	1138.1	974.1	920.9	1046.7	1244.7
67°	872.6	950.8	1117.6	1263.3	1315.9	1248.9	1097.9	931.9	875.2	1005.2	1206.3
68°	826.4	908.3	1077.7	1224.4	1277.7	1211.0	1057.8	888.6	828.8	962.1	1167.3
69°	779.9	865.9	1038.3	1185.4	1239.0	1171.6	1017.4	845.5	781.6	919.3	1128.0
70°	734.0	823.9	998.8	1147.0	1200.7	1133.2	977.1	803.2	736.0	876.8	1089.1
71°	687.0	781.1	959.3	1107.0	1162.1	1094.3	937.2	760.7	689.0	835.4	1050.4
72°	642.2	739.8	921.4	1066.4	1124.0	1056.3	897.8	719.0	643.1	794.1	1011.8
73°	596.4	698.8	882.6	1027.0	1084.9	1017.8	857.8	677.2	596.9	752.4	972.6
74°	550.1	658.2	844.3	986.9	1047.5	980.0	819.8	635.9	551.1	711.7	933.8
75°	504.7	618.4	805.2	948.3	1008.9	941.3	780.8	595.0	506.0	671.1	894.8
76°	460.3	578.7	766.9	910.5	971.1	903.4	743.3	554.6	461.0	630.9	855.5
77°	416.9	539.5	728.5	872.3	933.1	866.2	706.0	516.0	417.4	592.4	817.8
78°	373.9	502.1	690.1	836.1	895.1	828.4	668.1	478.2	374.5	554.7	779.3
79°	332.1	462.8	652.0	798.3	857.1	791.8	632.1	441.4	332.3	516.2	742.2
80°	291.5	427.0	615.3	762.8	821.6	755.9	596.3	404.9	291.7	479.5	706.4
81°	253.0	392.7	580.2	727.5	784.7	720.3	560.7	369.4	254.3	443.1	669.7
82°	215.2	359.2	545.7	691.3	751.4	686.8	527.4	335.3	216.1	407.3	633.9
83°	178.5	327.4	513.0	658.3	717.1	653.0	494.5	302.5	180.4	373.7	600.2
84°	146.6	296.8	482.4	626.2	685.7	622.9	464.0	272.3	147.4	340.5	568.0
85°	117.5	268.2	455.6	596.8	655.1	592.9	435.5	243.9	116.9	309.7	536.7
86°	91.8	243.0	429.6	569.0	627.7	565.3	408.7	218.3	90.3	281.0	506.0
87°	70.7	220.9	405.9	544.9	601.5	539.4	385.3	196.3	68.8	255.6	477.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	37.6	174.1	354.4	488.7	546.8	486.4	335.3	149.6	31.8	199.3	413.4
91°	35.9	164.5	341.8	473.7	530.4	470.5	321.7	140.6	29.5	187.4	397.4
92°	34.7	155.9	330.1	459.6	515.2	457.0	310.3	132.2	28.4	177.1	383.0
93°	33.8	147.2	318.0	446.5	500.7	442.7	299.4	124.2	27.6	166.9	369.2
94°	32.8	139.3	306.5	432.7	484.7	428.6	288.1	116.7	26.9	157.6	355.8
95°	32.2	131.1	295.2	420.1	470.9	415.4	276.9	109.2	26.5	148.2	341.9
96°	31.5	123.4	283.8	407.1	456.0	401.1	266.0	102.3	25.4	139.7	328.9
97°	30.7	116.2	272.7	393.9	442.7	388.4	256.4	95.6	25.0	131.1	316.1
98°	29.9	109.8	261.8	381.6	427.7	375.6	246.2	89.7	24.8	123.0	304.0
99°	29.4	103.2	252.0	369.4	414.1	363.3	236.1	83.6	24.6	115.5	291.7
100°	29.0	97.1	241.6	356.8	400.3	350.8	225.4	78.0	24.4	108.3	280.1
101°	29.0	91.5	231.3	344.7	387.3	338.2	215.7	73.0	24.2	101.4	268.9
102°	28.4	85.9	221.8	332.4	373.3	325.3	206.5	68.0	24.0	95.1	257.9
103°	28.0	80.5	212.0	320.0	361.5	313.6	198.0	63.2	23.8	88.7	247.6
104°	27.3	75.7	202.6	308.4	347.5	301.3	189.2	58.9	23.6	83.0	236.5
105°	26.9	70.9	194.2	296.8	335.8	290.8	180.3	54.7	23.5	77.8	226.0
106°	26.3	66.2	185.2	285.1	322.8	279.6	171.4	50.7	23.1	72.2	216.0
107°	25.9	62.4	176.7	273.6	310.8	269.2	163.0	46.6	22.3	67.2	206.0
108°	25.2	58.1	168.2	262.4	298.8	258.8	154.3	42.8	22.1	62.2	196.1
109°	24.8	53.9	160.4	252.3	287.4	248.8	146.6	39.7	22.1	58.0	186.8
110°	24.2	49.9	152.6	241.8	275.5	237.7	138.5	35.9	21.7	53.8	177.7
111°	23.8	46.4	145.2	231.1	264.4	227.6	131.5	32.8	21.4	49.1	169.0
112°	23.5	42.6	137.4	221.3	253.7	216.8	124.4	29.6	21.1	45.2	160.3
113°	23.3	39.2	130.0	211.4	242.9	206.6	117.1	26.9	20.8	41.5	152.1
114°	22.9	36.1	123.2	201.4	232.6	196.5	110.2	24.3	20.6	37.2	143.9
115°	22.5	32.9	116.1	192.3	221.4	186.6	103.6	22.2	20.3	33.9	135.9
116°	21.8	30.1	109.3	182.6	212.1	176.7	97.1	20.9	20.0	30.4	128.2
117°	21.4	27.7	103.0	173.9	201.3	168.1	91.5	20.1	20.0	27.4	120.8
118°	21.2	25.6	96.8	164.9	192.0	160.0	84.7	18.8	19.1	24.6	113.0
119°	20.6	23.9	90.1	156.2	182.4	151.5	79.1	18.4	18.5	22.1	106.3
120°	20.2	23.3	84.1	148.1	173.1	143.4	73.0	18.0	18.7	19.6	99.4
121°	19.6	22.7	78.2	140.0	163.6	134.7	67.1	17.6	17.7	18.5	92.4
122°	19.3	22.1	72.6	131.9	155.8	126.9	61.9	17.2	17.7	18.3	86.1
123°	18.5	21.8	67.2	124.1	146.3	119.1	57.0	16.8	17.3	18.3	79.3
124°	17.7	21.4	62.4	116.5	138.2	111.4	51.6	16.3	16.6	18.5	73.2
125°	17.4	21.0	56.8	109.1	128.8	104.1	46.7	16.1	16.2	18.1	67.4
126°	16.6	20.4	51.7	101.9	121.4	96.4	42.0	15.8	15.6	16.8	61.6
127°	16.4	20.0	46.8	94.5	113.2	89.3	37.6	15.6	15.4	15.6	56.5
128°	16.0	19.5	42.2	87.6	105.7	82.5	33.0	15.2	14.9	15.5	50.9
129°	15.6	18.9	37.7	80.9	97.7	75.3	29.1	14.6	14.5	15.3	45.6
130°	15.3	18.3	33.2	74.1	90.9	69.3	25.1	14.6	14.3	14.9	40.4
131°	14.7	18.1	29.3	67.6	82.7	62.4	21.3	14.8	13.2	14.7	35.5
132°	14.3	17.8	25.5	61.9	76.6	57.1	18.2	14.0	12.6	14.5	30.8



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLT-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	13.3	16.4	16.9	45.1	56.9	40.4	13.0	12.2	11.4	13.2	18.3
136°	13.2	15.8	16.5	39.6	50.5	35.2	12.3	11.8	11.1	12.6	14.9
137°	12.6	15.7	15.9	34.7	44.8	30.2	11.9	11.6	10.3	12.0	13.2
138°	12.4	15.1	15.5	30.0	38.9	25.9	11.5	11.6	10.1	11.6	12.6
139°	12.0	14.3	15.0	25.6	33.4	21.4	11.3	11.2	9.7	11.6	11.9
140°	12.0	14.1	14.6	21.3	28.3	17.5	10.9	11.2	9.7	11.8	11.7
141°	11.4	13.7	14.2	17.6	23.7	14.3	10.6	10.4	9.7	11.4	11.9
142°	11.3	13.6	13.8	15.1	18.6	11.9	10.0	9.7	9.6	10.7	10.9
143°	11.2	13.0	13.6	14.5	14.8	11.6	9.6	9.7	9.5	10.5	10.2
144°	10.7	12.8	13.2	14.1	11.6	11.6	9.0	9.3	9.4	10.2	9.8
145°	10.7	12.2	12.7	13.9	11.2	10.8	9.1	8.9	9.4	10.0	9.0
146°	10.5	12.0	12.5	13.3	10.4	10.4	9.1	8.9	9.3	9.8	8.6
147°	10.5	11.5	12.3	13.3	10.0	10.0	9.1	8.8	9.2	9.8	8.8
148°	10.1	11.3	11.9	13.1	9.8	9.8	9.2	8.7	9.2	9.8	8.4
149°	9.7	11.1	11.7	12.5	9.6	9.4	9.2	8.6	9.1	9.7	8.6
150°	9.7	10.7	11.1	12.5	9.4	9.4	8.6	8.5	9.0	9.7	8.6
151°	9.5	10.3	11.0	12.0	9.3	8.9	8.8	8.5	9.0	9.7	8.6
152°	9.3	10.3	10.9	11.7	9.1	9.1	8.8	8.5	8.9	9.7	8.6
153°	9.2	10.1	10.8	11.6	8.9	8.9	8.8	8.5	8.9	9.7	8.6
154°	9.0	9.9	10.7	11.2	8.7	8.9	8.8	8.5	8.9	9.6	8.5
155°	8.8	9.9	10.7	11.4	8.5	8.5	8.8	8.5	8.9	9.6	8.5
156°	8.8	9.9	10.7	10.8	8.3	8.3	8.8	8.5	8.9	9.6	8.5
157°	8.8	9.9	10.7	10.8	8.2	8.3	8.8	8.5	8.9	9.6	8.5
158°	8.8	9.9	10.7	10.7	8.0	8.3	8.8	8.5	9.0	9.6	8.8
159°	8.8	9.9	10.7	10.6	8.0	8.3	8.8	8.5	9.0	9.6	9.1
160°	8.8	9.9	10.7	10.5	8.1	8.3	8.8	8.5	9.0	9.5	9.4
161°	9.0	9.9	10.7	10.4	8.1	8.3	8.8	8.7	9.5	9.9	9.7
162°	9.1	9.9	10.7	10.3	8.1	8.3	8.8	9.7	10.7	10.5	10.0
163°	9.7	9.9	10.7	10.2	8.1	8.3	9.0	10.1	11.2	10.7	10.7
164°	10.1	9.9	10.7	10.0	8.1	8.3	9.0	10.4	11.6	11.3	11.1
165°	10.3	9.9	10.7	10.0	8.1	8.3	9.2	10.6	12.2	11.5	11.5
166°	11.3	10.1	10.7	9.9	8.1	8.3	9.3	10.8	12.4	12.0	11.5
167°	11.4	10.5	10.7	9.8	8.1	8.3	9.3	10.9	13.0	12.0	12.1
168°	11.6	11.3	10.7	9.7	8.1	8.3	9.4	11.1	13.5	12.0	12.7
169°	11.7	11.8	10.7	9.6	8.1	8.3	9.4	11.2	14.1	12.0	12.9
170°	11.8	11.6	10.7	9.5	8.1	8.3	9.5	11.4	14.7	12.0	12.9
171°	11.8	12.2	10.7	9.4	8.1	8.3	9.5	11.5	15.1	12.0	12.9
172°	11.9	12.2	10.7	9.4	8.1	8.3	9.6	11.5	15.4	12.0	12.9
173°	11.9	12.4	10.7	9.4	8.5	8.5	9.8	11.6	15.4	12.0	13.0
174°	11.9	12.5	10.7	9.3	8.3	8.7	10.2	11.6	15.3	12.0	13.0
175°	11.9	12.7	10.7	9.3	8.5	9.1	10.0	11.7	15.2	12.0	13.0
176°	12.0	12.8	10.9	9.3	9.1	9.1	10.0	11.7	15.1	12.0	13.0
177°	12.0	13.0	10.9	9.2	9.3	9.2	10.0	11.8	15.1	12.0	13.0



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2
1°	2964.0	2965.2	2965.5	2964.8	2964.0	2964.4
2°	2963.6	2965.0	2965.9	2965.0	2964.2	2963.6
3°	2962.5	2965.2	2966.1	2965.0	2961.5	2960.5
4°	2959.8	2962.7	2963.6	2962.5	2957.4	2955.3
5°	2956.3	2958.8	2959.8	2959.9	2952.0	2949.5
6°	2951.7	2953.6	2954.9	2955.9	2945.1	2942.0
7°	2946.4	2947.8	2949.1	2950.7	2937.2	2933.1
8°	2939.9	2941.4	2942.4	2943.9	2927.7	2923.5
9°	2932.2	2934.5	2935.2	2936.4	2917.3	2912.9
10°	2924.1	2926.4	2927.1	2927.3	2905.1	2900.5
11°	2915.2	2917.9	2918.5	2917.9	2892.0	2886.8
12°	2904.6	2908.2	2908.2	2906.9	2877.9	2871.8
13°	2893.8	2897.2	2897.2	2894.3	2862.7	2855.7
14°	2881.4	2885.5	2885.6	2880.2	2846.1	2839.1
15°	2868.5	2873.1	2873.7	2865.4	2829.1	2820.8
16°	2854.6	2859.2	2860.2	2849.0	2810.6	2802.1
17°	2839.7	2844.7	2845.9	2832.6	2791.9	2782.8
18°	2824.1	2829.3	2829.5	2814.4	2772.9	2761.2
19°	2807.9	2813.5	2812.9	2795.7	2751.3	2738.6
20°	2789.0	2795.9	2794.7	2776.6	2728.7	2714.8
21°	2769.9	2778.5	2776.0	2756.3	2705.0	2689.8
22°	2750.4	2760.4	2756.9	2735.1	2681.1	2663.7
23°	2730.7	2741.1	2736.5	2711.4	2655.2	2636.7
24°	2709.6	2722.2	2715.4	2688.0	2628.6	2608.9
25°	2687.1	2701.7	2693.0	2663.5	2601.6	2580.7
26°	2664.5	2680.3	2670.3	2636.9	2574.0	2551.2
27°	2641.1	2658.3	2645.8	2610.2	2544.8	2519.7
28°	2617.8	2634.8	2623.2	2583.6	2514.7	2488.7
29°	2593.5	2612.0	2598.7	2555.4	2484.4	2455.5
30°	2568.6	2587.9	2574.3	2526.9	2452.8	2422.5
31°	2543.3	2563.0	2548.5	2497.5	2420.0	2389.3
32°	2517.8	2537.5	2523.4	2467.2	2387.5	2353.8
33°	2491.0	2512.0	2496.8	2436.4	2353.8	2318.8
34°	2463.8	2485.8	2469.4	2405.9	2319.4	2282.9
35°	2436.0	2458.4	2441.6	2374.0	2284.5	2246.1
36°	2409.1	2433.3	2412.4	2341.8	2249.2	2209.4
37°	2380.0	2405.5	2383.7	2309.0	2213.3	2172.0
38°	2350.5	2378.5	2353.0	2274.8	2177.0	2133.5
39°	2322.1	2350.9	2325.4	2240.7	2139.7	2095.3
40°	2292.6	2322.5	2294.7	2206.7	2102.3	2057.7
41°	2263.0	2293.7	2264.4	2172.0	2064.3	2018.7
42°	2232.6	2263.8	2233.5	2135.7	2026.6	1978.2



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2139.5	2172.5	2137.4	2027.8	1909.8	1855.0
46°	2107.7	2140.9	2105.4	1990.2	1869.6	1813.4
47°	2075.3	2109.4	2071.8	1953.5	1828.7	1771.0
48°	2043.8	2077.2	2038.4	1916.4	1789.0	1728.1
49°	2011.4	2045.5	2006.0	1879.1	1747.8	1684.9
50°	1978.2	2015.1	1970.9	1841.5	1707.1	1641.6
51°	1944.0	1982.0	1937.3	1803.9	1665.0	1597.8
52°	1910.7	1951.0	1901.5	1766.0	1623.2	1554.0
53°	1876.2	1918.8	1867.8	1727.7	1581.7	1510.8
54°	1842.0	1885.6	1832.7	1689.4	1539.0	1465.6
55°	1807.7	1853.1	1796.1	1651.4	1497.8	1421.9
56°	1772.8	1819.9	1761.8	1612.9	1454.8	1377.3
57°	1737.3	1786.4	1725.0	1574.3	1412.8	1333.0
58°	1702.1	1750.9	1688.3	1536.1	1369.9	1287.7
59°	1665.4	1716.3	1651.5	1497.6	1326.9	1242.3
60°	1629.9	1682.0	1615.0	1458.2	1283.0	1197.4
61°	1593.3	1645.9	1578.3	1419.2	1240.1	1151.2
62°	1555.7	1610.9	1541.1	1381.0	1197.1	1105.7
63°	1519.4	1574.5	1503.9	1341.4	1153.5	1058.6
64°	1482.1	1538.5	1466.6	1301.7	1110.4	1013.1
65°	1444.9	1502.1	1429.4	1262.6	1067.5	966.0
66°	1407.8	1465.2	1392.2	1223.4	1024.9	919.2
67°	1369.8	1428.9	1354.1	1183.5	981.5	872.6
68°	1331.6	1391.2	1316.0	1143.5	938.0	826.4
69°	1293.2	1354.1	1277.8	1103.9	895.4	779.9
70°	1254.6	1316.2	1240.5	1064.0	853.1	734.0
71°	1216.0	1278.3	1202.6	1024.2	810.3	687.0
72°	1178.0	1241.6	1164.3	984.9	768.7	642.2
73°	1139.7	1203.1	1125.7	944.9	726.6	596.4
74°	1101.7	1164.8	1087.2	905.9	684.7	550.1
75°	1063.7	1123.8	1049.5	866.1	643.8	504.7
76°	1026.7	1081.7	1011.6	827.6	603.2	460.3
77°	989.4	1041.2	973.7	788.4	562.8	416.9
78°	951.2	998.9	935.8	750.2	523.9	373.9
79°	914.1	958.3	897.6	712.6	485.4	332.1
80°	876.1	919.0	860.2	676.4	447.6	291.5
81°	840.2	879.2	823.2	641.2	410.5	253.0
82°	804.6	841.0	785.9	606.7	375.7	215.2
83°	769.3	804.5	751.1	573.0	341.7	178.5
84°	736.2	769.5	715.8	540.6	309.9	146.6
85°	703.4	736.0	683.0	509.7	280.8	117.5
86°	672.7	705.3	652.2	480.6	254.2	91.8
87°	643.2	674.9	623.1	454.1	229.0	70.7



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	573.2	603.6	552.7	389.0	173.1	37.6
91°	554.3	584.2	533.3	373.0	162.6	35.9
92°	538.1	566.7	516.5	358.9	153.5	34.7
93°	521.9	550.7	501.2	345.8	144.6	33.8
94°	506.5	535.4	485.1	332.0	135.8	32.8
95°	490.8	519.5	469.5	318.8	127.7	32.2
96°	474.4	504.6	455.1	307.4	119.8	31.5
97°	459.1	490.2	440.6	296.3	112.1	30.7
98°	444.0	475.1	427.0	284.9	105.3	29.9
99°	428.7	461.0	413.5	273.4	98.5	29.4
100°	414.2	447.6	399.0	261.4	92.1	29.0
101°	400.0	433.7	384.7	251.1	86.4	29.0
102°	385.4	420.6	371.1	240.9	80.9	28.4
103°	372.1	407.6	357.5	230.5	75.6	28.0
104°	357.6	394.8	344.7	219.9	71.0	27.3
105°	344.5	382.1	333.2	209.7	65.9	26.9
106°	330.9	370.2	322.0	200.1	61.8	26.3
107°	317.9	357.3	310.4	190.5	57.6	25.9
108°	305.3	344.2	298.1	181.7	53.6	25.2
109°	293.1	331.1	285.6	172.7	49.7	24.8
110°	281.0	318.1	274.2	163.9	45.8	24.2
111°	269.7	305.5	262.3	155.6	42.4	23.8
112°	258.4	293.2	251.3	147.8	39.1	23.5
113°	247.3	281.3	240.5	139.6	36.1	23.3
114°	236.5	269.3	229.8	132.1	33.1	22.9
115°	225.6	258.7	219.5	124.9	30.4	22.5
116°	215.0	247.2	209.1	117.6	27.9	21.8
117°	205.2	236.0	199.1	110.6	26.0	21.4
118°	194.9	224.9	189.2	103.9	25.1	21.2
119°	185.1	214.8	180.3	97.3	24.5	20.6
120°	175.4	204.2	170.5	91.1	23.9	20.2
121°	166.0	194.0	161.5	84.9	23.4	19.6
122°	157.6	184.3	152.7	78.9	23.0	19.3
123°	147.9	174.5	143.9	73.0	22.6	18.5
124°	139.6	164.8	135.4	67.3	22.6	17.7
125°	131.1	156.0	127.2	62.0	22.0	17.4
126°	122.7	147.0	119.2	56.6	21.5	16.6
127°	114.9	138.0	111.1	51.4	20.9	16.4
128°	106.7	129.4	103.4	46.5	20.5	16.0
129°	98.9	121.0	95.8	41.7	19.8	15.6
130°	91.3	112.6	88.1	37.2	19.6	15.3
131°	84.0	104.4	81.3	32.9	18.8	14.7
132°	76.9	96.6	74.2	28.8	18.4	14.3



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	57.2	74.3	55.4	18.8	16.9	13.3
136°	50.8	67.2	49.4	18.3	16.7	13.2
137°	44.9	60.8	44.0	17.5	16.1	12.6
138°	39.1	54.8	38.5	17.1	15.8	12.4
139°	33.3	48.3	33.3	16.5	15.2	12.0
140°	28.0	42.3	28.4	16.1	14.6	12.0
141°	23.5	36.7	23.9	15.9	14.2	11.4
142°	18.2	31.4	19.8	15.4	13.9	11.3
143°	14.4	26.2	16.6	14.8	13.5	11.2
144°	11.9	21.5	15.8	14.4	12.9	10.7
145°	11.9	17.6	15.4	13.8	12.5	10.7
146°	11.8	15.5	15.2	13.4	12.2	10.5
147°	11.9	15.0	14.7	13.2	12.0	10.5
148°	11.0	14.8	14.5	12.7	11.8	10.1
149°	10.6	14.5	14.3	12.3	11.6	9.7
150°	10.0	13.9	13.9	11.9	11.2	9.7
151°	9.8	13.7	13.5	11.7	11.0	9.5
152°	9.0	13.5	13.3	11.7	10.8	9.3
153°	8.9	12.7	12.7	11.3	10.5	9.2
154°	8.9	12.5	12.5	11.3	10.6	9.0
155°	8.3	12.3	12.3	11.3	10.6	8.8
156°	8.3	12.1	12.1	11.3	10.6	8.8
157°	8.4	12.0	11.9	11.3	10.6	8.8
158°	8.4	11.8	11.8	11.3	10.6	8.8
159°	8.5	11.8	11.6	11.3	10.6	8.8
160°	8.6	11.4	11.6	11.3	10.6	8.8
161°	8.6	11.2	11.6	11.3	10.6	9.0
162°	8.7	11.0	11.2	11.3	10.6	9.1
163°	9.2	11.0	10.8	11.3	10.8	9.7
164°	9.4	10.6	11.0	11.3	11.2	10.1
165°	9.6	10.4	11.0	11.4	11.4	10.3
166°	9.8	10.6	10.9	11.4	11.4	11.3
167°	10.0	10.2	10.9	11.4	11.8	11.4
168°	10.4	10.2	10.9	11.5	12.0	11.6
169°	10.6	10.0	10.9	11.5	12.2	11.7
170°	10.4	10.0	10.8	11.5	12.5	11.8
171°	10.4	9.8	10.8	11.6	12.7	11.8
172°	10.6	9.8	10.8	11.6	13.1	11.9
173°	11.0	9.5	10.2	11.6	13.7	11.9
174°	11.4	9.3	10.2	11.7	13.9	11.9
175°	11.7	9.3	10.0	11.7	14.2	11.9
176°	11.6	9.3	10.0	11.7	14.8	12.0
177°	11.6	9.3	10.0	11.7	14.8	12.0



TEST NUMBER: P861217

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	12.0	12.0	12.0	12.0	12.0	12.0



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







43°	1938.0	1966.2	2035.1	2122.0	2153.4	2117.5	2039.0	1957.7	1937.1	2003.1	2103.1
44°	1896.6	1926.1	1999.0	2089.7	2122.5	2084.7	2001.5	1917.4	1896.8	1964.5	2067.7



88°	53.0	201.5	385.9	523.6	581.0	519.7	365.9	177.5	51.5	234.2	452.5
89°	42.5	185.1	367.7	504.0	562.0	500.9	348.7	161.3	38.8	215.5	431.4



133°	13.7	17.0	22.0	55.9	69.4	51.3	15.0	13.1	12.2	13.7	26.6
134°	13.5	16.6	18.7	50.4	62.9	45.4	13.4	12.5	11.6	13.5	22.4



178°	12.0	13.0	11.3	9.2	9.3	9.2	10.0	12.0	14.9	12.0	13.0
179°	12.0	13.0	11.7	9.2	9.3	9.2	10.0	11.6	14.9	12.0	13.0





43°	2202.1	2234.5	2202.3	2100.4	1989.0	1938.0
44°	2170.8	2203.2	2170.4	2063.9	1949.6	1896.6



88°	617.5	649.0	597.1	429.9	207.5	53.0
89°	592.6	625.3	573.1	408.3	188.5	42.5



133°	70.1	89.0	67.6	25.2	17.9	13.7
134°	63.5	81.5	61.5	21.6	17.5	13.5



178°	11.6	9.3	10.0	11.7	14.8	12.0
179°	11.6	9.3	10.0	11.7	14.8	12.0



(END OF REPORT)