

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: P861215

Luminaire Tested: **8APVTLD-SL3C3 MID POWER 4000K 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: P861215
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 4000K 120V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

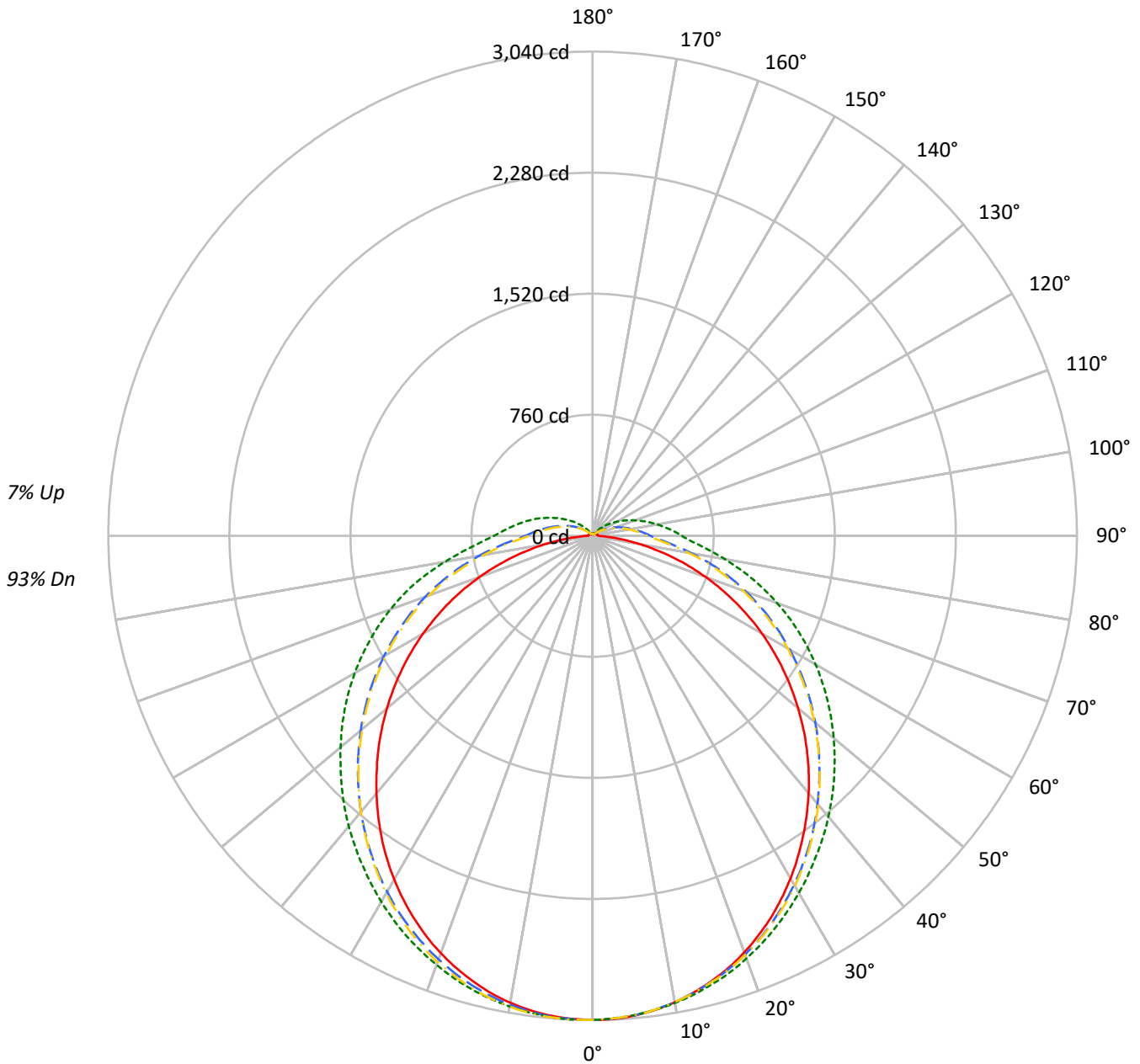
Lumens per Lamp: N/A
Luminaire Lumens: 10321.3 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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°	12268	12268	12268	12268
5°	12243	11977	12243	12030
10°	12167	11695	12181	11779
15°	12053	11410	12070	11538
20°	11912	11119	11932	11287
25°	11728	10828	11756	11050
30°	11508	10546	11542	10807
35°	11266	10272	11298	10570
40°	11021	10029	11025	10372
45°	10746	9790	10748	10173
50°	10440	9555	10450	9996
55°	10109	9332	10122	9854
60°	9736	9107	9748	9716
65°	9254	8869	9272	9576
70°	8635	8613	8658	9442
75°	7767	8346	7788	9297
80°	6558	8099	6565	9059
85°	4987	8064	4958	9060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	2.8
10°-20°	821.7	8.0
20°-30°	1242.8	12.0
30°-40°	1501.7	14.5
40°-50°	1580.1	15.3
50°-60°	1484.0	14.4
60°-70°	1237.3	12.0
70°-80°	882.7	8.6
80°-90°	517.3	5.0
90°-100°	322.7	3.1
100°-110°	212.2	2.1
110°-120°	125.2	1.2
120°-130°	64.1	0.6
130°-140°	25.0	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°	2352.0	22.8
0°-40°	3853.7	37.3
0°-60°	6917.8	67.0
0°-90°	9555.1	92.6
90°-120°	660.1	6.4
90°-150°	757.4	7.3
90°-180°	766.0	7.4
0°-180°	10321.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3039	3039	3039	3039	3039	
5°	3024	3020	3024	3034	3024	287
15°	2892	2913	2896	2946	2892	816
25°	2646	2715	2652	2770	2646	1218
35°	2303	2449	2310	2521	2303	1441
45°	1902	2144	1902	2228	1902	1467
55°	1458	1800	1460	1900	1458	1303
65°	990	1426	992	1540	990	980
75°	517	1034	519	1152	517	549
85°	120	672	120	755	120	136
90°	39	561	33	619	39	23
95°	33	483	27	533	33	26
105°	28	344	24	392	28	29
115°	23	227	21	265	23	23
125°	18	132	17	160	18	16
135°	14	58	12	76	14	11
145°	11	12	10	18	11	7
155°	9	9	9	13	9	4
165°	11	8	12	11	11	3
175°	12	9	16	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°	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3
1°	3039.5	3039.5	3039.5	3038.1	3037.7	3036.5	3037.7	3037.9	3038.7	3038.9	3039.5
2°	3038.7	3037.7	3036.9	3034.9	3034.4	3033.2	3034.8	3035.7	3037.3	3037.3	3038.3
3°	3035.5	3034.2	3033.0	3030.8	3030.8	3029.6	3031.6	3032.2	3034.6	3034.8	3035.9
4°	3030.2	3029.2	3028.2	3025.6	3026.2	3024.7	3027.0	3027.4	3030.2	3030.8	3033.2
5°	3024.3	3023.1	3021.7	3019.7	3020.5	3018.3	3021.1	3020.9	3024.3	3025.6	3029.6
6°	3016.5	3015.2	3014.6	3012.8	3014.0	3011.2	3015.2	3013.6	3018.1	3019.7	3024.1
7°	3007.4	3006.3	3005.5	3005.3	3006.7	3003.9	3006.8	3005.3	3009.8	3012.0	3016.1
8°	2997.5	2996.0	2995.8	2996.6	2998.3	2995.8	2996.0	2995.8	2999.9	3003.3	3008.0
9°	2986.7	2984.3	2985.3	2986.1	2989.2	2985.9	2984.9	2984.7	2989.2	2993.4	2999.3
10°	2974.0	2971.8	2972.8	2975.2	2979.1	2974.2	2972.8	2972.2	2977.4	2982.1	2989.6
11°	2960.0	2958.8	2960.0	2963.1	2968.1	2961.5	2960.0	2958.2	2964.1	2969.8	2978.0
12°	2944.5	2943.9	2945.5	2950.3	2955.8	2948.7	2946.3	2943.5	2949.7	2956.2	2966.1
13°	2928.1	2928.3	2930.5	2937.0	2941.9	2934.6	2931.3	2927.1	2933.6	2940.8	2952.4
14°	2911.1	2910.7	2914.0	2922.7	2927.7	2919.4	2915.2	2908.7	2915.8	2924.5	2938.2
15°	2892.3	2892.5	2896.6	2907.1	2913.2	2904.5	2899.2	2889.3	2896.4	2906.9	2922.9
16°	2873.1	2873.3	2879.0	2891.3	2897.8	2888.7	2881.8	2869.5	2876.4	2887.1	2906.1
17°	2853.3	2854.3	2860.2	2873.7	2881.6	2870.9	2862.6	2848.5	2856.5	2867.9	2889.1
18°	2831.1	2833.1	2840.8	2854.9	2863.4	2851.3	2842.2	2826.6	2835.1	2847.0	2869.3
19°	2808.0	2810.0	2820.6	2835.9	2843.8	2831.5	2821.8	2803.4	2812.1	2825.0	2849.9
20°	2783.6	2786.2	2798.7	2815.7	2824.0	2811.9	2800.3	2780.3	2788.2	2802.2	2829.5
21°	2757.9	2760.9	2775.5	2796.1	2803.2	2790.8	2777.9	2756.1	2763.1	2777.9	2808.4
22°	2731.2	2735.0	2752.0	2775.1	2782.6	2769.2	2754.0	2731.4	2736.9	2753.4	2786.0
23°	2703.5	2707.3	2726.8	2751.2	2760.9	2746.6	2730.0	2704.9	2709.6	2727.2	2763.1
24°	2675.0	2680.1	2700.5	2727.8	2738.3	2722.9	2705.1	2678.0	2680.7	2700.5	2739.5
25°	2646.1	2652.2	2674.2	2703.1	2714.6	2699.1	2679.2	2651.1	2652.4	2672.4	2714.8
26°	2615.8	2622.6	2646.1	2679.7	2691.2	2675.2	2652.8	2622.4	2621.4	2645.1	2689.4
27°	2583.6	2592.5	2618.0	2654.0	2666.3	2649.5	2625.9	2592.7	2590.3	2616.0	2663.9
28°	2551.7	2561.2	2588.9	2628.3	2641.2	2623.3	2598.2	2561.2	2557.9	2585.6	2636.6
29°	2517.7	2529.4	2559.8	2601.0	2615.6	2596.8	2569.7	2529.8	2525.2	2554.7	2609.1
30°	2483.8	2496.9	2529.2	2573.9	2589.3	2569.9	2539.1	2497.1	2491.2	2523.0	2580.0
31°	2449.8	2464.1	2498.7	2545.4	2562.8	2542.0	2508.2	2463.3	2457.7	2490.8	2551.3
32°	2413.4	2429.2	2468.0	2516.9	2534.9	2513.7	2477.1	2429.4	2422.1	2458.5	2521.2
33°	2377.6	2394.2	2435.4	2488.6	2506.2	2485.0	2444.5	2394.0	2385.1	2424.5	2490.4
34°	2340.8	2359.2	2403.7	2458.5	2477.9	2455.1	2411.8	2357.8	2348.7	2390.2	2460.3
35°	2303.0	2322.0	2371.6	2428.0	2449.4	2424.9	2378.8	2322.0	2309.5	2355.4	2428.4
36°	2265.4	2285.4	2337.8	2397.4	2421.3	2394.0	2344.7	2284.6	2270.9	2320.0	2395.8
37°	2227.0	2249.0	2303.6	2367.9	2392.0	2363.7	2309.5	2245.6	2231.5	2283.4	2363.1
38°	2187.6	2211.0	2268.3	2335.6	2363.5	2332.5	2275.3	2206.8	2191.8	2246.8	2329.9
39°	2148.4	2172.0	2233.3	2305.2	2333.4	2301.0	2239.1	2167.6	2151.6	2209.2	2296.0
40°	2109.8	2133.6	2195.7	2273.3	2302.6	2269.5	2203.0	2128.2	2110.6	2170.8	2262.4
41°	2069.9	2095.0	2160.5	2241.8	2271.5	2237.9	2166.4	2088.3	2069.7	2132.0	2227.4
42°	2028.3	2055.6	2123.1	2208.8	2240.4	2204.8	2128.8	2048.7	2028.3	2093.2	2191.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1902.0	1933.7	2013.1	2108.7	2143.7	2103.5	2013.1	1924.2	1902.4	1974.3	2084.1
46°	1859.4	1892.6	1975.9	2075.2	2110.8	2070.9	1973.9	1882.1	1860.0	1933.1	2048.3
47°	1815.9	1850.9	1938.2	2041.0	2077.4	2035.0	1934.7	1840.3	1816.5	1892.5	2011.7
48°	1771.9	1808.5	1900.7	2006.0	2043.9	2000.8	1896.0	1798.0	1773.4	1851.1	1974.8
49°	1727.6	1765.4	1863.2	1970.7	2009.7	1964.9	1855.4	1754.6	1728.9	1809.5	1937.6
50°	1683.2	1723.0	1824.8	1934.8	1974.9	1928.8	1816.1	1711.4	1684.7	1766.9	1900.2
51°	1638.3	1679.5	1785.5	1899.8	1941.5	1893.4	1776.1	1667.7	1641.0	1725.2	1863.4
52°	1593.4	1636.1	1746.7	1864.1	1905.3	1857.7	1736.7	1624.3	1595.8	1681.4	1824.4
53°	1549.0	1592.5	1708.1	1829.4	1871.1	1820.9	1696.4	1580.4	1550.7	1640.0	1786.1
54°	1502.8	1548.7	1668.6	1792.8	1835.5	1783.4	1656.8	1536.3	1505.3	1596.4	1747.7
55°	1457.9	1504.7	1628.9	1754.6	1799.5	1746.4	1616.5	1492.0	1459.7	1552.9	1709.6
56°	1412.2	1461.2	1589.5	1717.9	1763.3	1708.3	1575.1	1447.7	1414.4	1509.2	1670.1
57°	1366.7	1417.1	1548.5	1680.0	1727.1	1670.8	1535.2	1402.4	1368.2	1465.7	1631.0
58°	1320.4	1372.4	1508.8	1641.9	1690.2	1633.2	1493.8	1357.5	1322.1	1422.5	1591.5
59°	1273.8	1327.7	1468.5	1602.9	1654.2	1594.1	1454.0	1312.7	1275.6	1379.0	1552.2
60°	1227.7	1283.8	1428.9	1564.2	1616.6	1555.6	1412.7	1267.9	1229.3	1336.1	1513.4
61°	1180.4	1240.5	1388.6	1525.6	1579.5	1517.4	1371.8	1222.5	1181.9	1291.3	1474.3
62°	1133.7	1196.8	1348.4	1486.9	1541.1	1477.7	1330.6	1177.5	1134.8	1248.1	1433.7
63°	1085.4	1152.5	1308.3	1448.8	1503.5	1438.8	1290.2	1132.6	1087.0	1205.3	1394.8
64°	1038.7	1107.8	1268.0	1410.7	1465.4	1399.3	1249.8	1088.1	1040.2	1160.9	1355.4
65°	990.5	1063.9	1227.8	1372.2	1426.4	1360.2	1208.6	1043.9	992.5	1116.9	1316.3
66°	942.4	1019.1	1187.6	1334.1	1388.5	1320.3	1166.9	998.8	944.3	1073.3	1276.3
67°	894.7	974.9	1145.9	1295.3	1349.3	1280.5	1125.7	955.5	897.4	1030.6	1236.8
68°	847.3	931.4	1105.0	1255.4	1310.1	1241.7	1084.6	911.1	849.8	986.5	1196.9
69°	799.7	887.8	1064.6	1215.5	1270.4	1201.3	1043.2	866.9	801.5	942.6	1156.6
70°	752.6	844.8	1024.1	1176.1	1231.1	1162.0	1001.8	823.6	754.6	899.0	1116.7
71°	704.4	800.9	983.6	1135.1	1191.6	1122.0	961.0	780.0	706.5	856.6	1077.0
72°	658.5	758.5	944.7	1093.4	1152.5	1083.0	920.6	737.2	659.4	814.2	1037.4
73°	611.5	716.5	904.9	1053.0	1112.3	1043.6	879.5	694.3	612.0	771.4	997.3
74°	564.0	674.8	865.6	1011.9	1074.0	1004.8	840.6	652.0	565.1	729.7	957.5
75°	517.4	634.1	825.7	972.4	1034.4	965.1	800.6	610.1	518.8	688.1	917.5
76°	472.0	593.4	786.3	933.5	995.7	926.3	762.2	568.7	472.7	646.9	877.2
77°	427.5	553.1	746.9	894.4	956.8	888.1	723.8	529.0	428.0	607.4	838.5
78°	383.4	514.8	707.6	857.3	917.8	849.4	685.0	490.3	384.0	568.8	799.1
79°	340.5	474.5	668.5	818.5	878.8	811.9	648.1	452.6	340.7	529.3	761.0
80°	298.8	437.8	630.9	782.1	842.4	775.1	611.4	415.1	299.1	491.7	724.3
81°	259.4	402.6	594.9	745.9	804.6	738.5	574.9	378.8	260.7	454.4	686.6
82°	220.7	368.3	559.5	708.8	770.4	704.2	540.8	343.8	221.6	417.6	650.0
83°	183.0	335.7	526.0	675.0	735.2	669.6	507.0	310.1	184.9	383.1	615.4
84°	150.3	304.4	494.7	642.1	703.1	638.7	475.8	279.2	151.2	349.2	582.4
85°	120.5	275.0	467.2	611.9	671.7	607.9	446.6	250.1	119.8	317.6	550.3
86°	94.1	249.2	440.5	583.5	643.6	579.6	419.1	223.8	92.6	288.1	518.8
87°	72.5	226.5	416.2	558.7	616.7	553.0	395.0	201.3	70.5	262.0	489.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	38.6	178.5	363.3	501.1	560.6	498.7	343.8	153.4	32.6	204.4	423.9
91°	36.8	168.7	350.4	485.7	543.9	482.4	329.9	144.2	30.3	192.2	407.4
92°	35.6	159.9	338.4	471.2	528.3	468.6	318.2	135.6	29.1	181.6	392.7
93°	34.6	150.9	326.1	457.9	513.4	453.9	306.9	127.3	28.3	171.1	378.5
94°	33.6	142.8	314.3	443.7	497.0	439.5	295.4	119.7	27.6	161.6	364.8
95°	33.0	134.5	302.7	430.7	482.8	425.9	283.9	112.0	27.2	152.0	350.6
96°	32.3	126.5	290.9	417.4	467.6	411.3	272.8	104.9	26.0	143.2	337.3
97°	31.5	119.2	279.6	403.8	453.9	398.3	262.9	98.0	25.6	134.4	324.1
98°	30.7	112.5	268.5	391.3	438.5	385.2	252.4	91.9	25.4	126.2	311.7
99°	30.1	105.8	258.3	378.7	424.6	372.5	242.1	85.7	25.2	118.4	299.1
100°	29.7	99.6	247.7	365.9	410.4	359.7	231.1	80.0	25.0	111.1	287.2
101°	29.7	93.8	237.1	353.4	397.1	346.8	221.2	74.9	24.8	103.9	275.7
102°	29.1	88.0	227.4	340.9	382.7	333.6	211.8	69.8	24.6	97.5	264.4
103°	28.8	82.5	217.4	328.2	370.7	321.5	203.0	64.8	24.4	90.9	253.8
104°	28.0	77.6	207.8	316.2	356.3	308.9	194.0	60.4	24.2	85.1	242.4
105°	27.6	72.7	199.1	304.3	344.3	298.2	184.9	56.1	24.0	79.8	231.7
106°	27.0	67.9	189.8	292.3	331.0	286.7	175.8	51.9	23.6	74.0	221.5
107°	26.6	64.0	181.1	280.6	318.7	276.0	167.1	47.7	22.9	68.9	211.2
108°	25.8	59.6	172.5	269.1	306.3	265.4	158.2	43.8	22.7	63.8	201.1
109°	25.4	55.3	164.5	258.7	294.7	255.1	150.4	40.7	22.7	59.5	191.6
110°	24.8	51.2	156.5	247.9	282.5	243.7	142.0	36.8	22.3	55.1	182.2
111°	24.4	47.6	148.9	237.0	271.1	233.4	134.8	33.6	21.9	50.4	173.2
112°	24.1	43.7	140.8	226.9	260.1	222.2	127.5	30.4	21.6	46.4	164.4
113°	23.9	40.2	133.3	216.7	249.1	211.9	120.1	27.6	21.4	42.5	155.9
114°	23.5	37.0	126.3	206.5	238.5	201.5	113.0	24.9	21.1	38.2	147.5
115°	23.1	33.7	119.1	197.1	227.0	191.3	106.2	22.8	20.8	34.8	139.4
116°	22.3	30.9	112.1	187.2	217.5	181.2	99.6	21.4	20.5	31.1	131.4
117°	21.9	28.4	105.6	178.3	206.4	172.4	93.8	20.6	20.5	28.1	123.8
118°	21.7	26.2	99.2	169.1	196.9	164.0	86.9	19.3	19.5	25.2	115.9
119°	21.1	24.5	92.4	160.2	187.1	155.4	81.1	18.9	19.0	22.6	109.0
120°	20.7	23.9	86.2	151.8	177.5	147.0	74.8	18.5	19.1	20.1	101.9
121°	20.1	23.3	80.2	143.6	167.8	138.1	68.8	18.0	18.2	19.0	94.8
122°	19.8	22.7	74.4	135.2	159.7	130.1	63.5	17.6	18.2	18.8	88.2
123°	19.0	22.3	68.9	127.2	150.0	122.1	58.5	17.2	17.8	18.8	81.3
124°	18.2	21.9	63.9	119.5	141.7	114.2	52.9	16.7	17.0	19.0	75.1
125°	17.8	21.5	58.3	111.9	132.0	106.7	47.9	16.5	16.6	18.6	69.1
126°	17.0	20.9	53.0	104.5	124.5	98.8	43.1	16.2	16.0	17.2	63.2
127°	16.8	20.6	48.0	96.9	116.1	91.6	38.5	16.0	15.8	16.0	58.0
128°	16.4	20.0	43.3	89.9	108.3	84.6	33.9	15.6	15.3	15.9	52.1
129°	16.0	19.4	38.7	82.9	100.1	77.2	29.9	15.0	14.9	15.7	46.8
130°	15.6	18.8	34.1	75.9	93.2	71.0	25.7	15.0	14.6	15.3	41.4
131°	15.1	18.6	30.0	69.3	84.8	64.0	21.8	15.2	13.5	15.1	36.4
132°	14.7	18.2	26.2	63.4	78.6	58.6	18.6	14.4	12.9	14.9	31.6



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	13.7	16.8	17.3	46.2	58.3	41.4	13.4	12.5	11.7	13.5	18.8
136°	13.5	16.2	16.9	40.6	51.8	36.1	12.6	12.1	11.3	12.9	15.3
137°	12.9	16.0	16.3	35.6	45.9	31.0	12.2	11.9	10.6	12.3	13.6
138°	12.7	15.5	15.9	30.8	39.9	26.6	11.8	11.9	10.4	11.9	13.0
139°	12.3	14.7	15.3	26.3	34.3	21.9	11.6	11.5	10.0	11.9	12.2
140°	12.3	14.5	14.9	21.8	29.1	17.9	11.2	11.5	10.0	12.1	12.0
141°	11.7	14.1	14.6	18.0	24.3	14.6	10.8	10.7	9.9	11.7	12.2
142°	11.5	13.9	14.2	15.4	19.1	12.2	10.2	9.9	9.8	10.9	11.2
143°	11.5	13.3	14.0	14.8	15.2	11.9	9.8	9.9	9.8	10.7	10.4
144°	11.0	13.1	13.6	14.4	11.9	11.8	9.3	9.5	9.7	10.5	10.0
145°	10.9	12.5	13.0	14.2	11.5	11.1	9.3	9.2	9.6	10.3	9.2
146°	10.8	12.3	12.8	13.6	10.7	10.7	9.3	9.1	9.5	10.0	8.9
147°	10.8	11.7	12.6	13.6	10.3	10.3	9.4	9.0	9.5	10.0	9.0
148°	10.4	11.5	12.2	13.4	10.1	10.1	9.4	8.9	9.4	10.0	8.7
149°	10.0	11.4	12.0	12.8	9.9	9.7	9.4	8.8	9.3	10.0	8.8
150°	10.0	11.0	11.4	12.8	9.7	9.7	8.9	8.8	9.3	10.0	8.8
151°	9.8	10.6	11.3	12.3	9.5	9.1	9.1	8.8	9.2	10.0	8.8
152°	9.6	10.6	11.2	12.0	9.3	9.3	9.1	8.8	9.1	9.9	8.8
153°	9.4	10.4	11.1	11.8	9.1	9.1	9.1	8.8	9.1	9.9	8.8
154°	9.2	10.2	11.0	11.5	8.9	9.1	9.1	8.8	9.1	9.9	8.8
155°	9.0	10.2	11.0	11.7	8.7	8.7	9.1	8.8	9.2	9.9	8.7
156°	9.0	10.2	11.0	11.1	8.5	8.5	9.1	8.8	9.2	9.9	8.7
157°	9.0	10.2	11.0	11.1	8.4	8.5	9.1	8.8	9.2	9.8	8.7
158°	9.0	10.2	11.0	11.0	8.2	8.5	9.1	8.8	9.2	9.8	9.0
159°	9.0	10.2	11.0	10.9	8.2	8.5	9.1	8.8	9.2	9.8	9.3
160°	9.0	10.2	11.0	10.8	8.3	8.5	9.1	8.8	9.2	9.8	9.6
161°	9.2	10.2	11.0	10.7	8.3	8.5	9.1	9.0	9.8	10.2	9.9
162°	9.4	10.2	11.0	10.6	8.3	8.5	9.1	9.9	11.0	10.8	10.2
163°	10.0	10.2	11.0	10.5	8.3	8.5	9.3	10.3	11.5	11.0	11.0
164°	10.4	10.2	11.0	10.3	8.3	8.5	9.3	10.7	11.9	11.5	11.4
165°	10.6	10.2	11.0	10.3	8.3	8.5	9.4	10.9	12.5	11.7	11.8
166°	11.5	10.4	11.0	10.2	8.3	8.5	9.5	11.1	12.7	12.3	11.8
167°	11.7	10.8	11.0	10.1	8.3	8.5	9.6	11.2	13.3	12.3	12.4
168°	11.8	11.5	11.0	10.0	8.3	8.5	9.6	11.4	13.9	12.3	13.0
169°	12.0	12.1	11.0	9.9	8.3	8.5	9.7	11.5	14.5	12.3	13.2
170°	12.1	11.9	11.0	9.8	8.3	8.5	9.7	11.7	15.1	12.3	13.2
171°	12.1	12.5	11.0	9.7	8.3	8.5	9.8	11.7	15.4	12.3	13.2
172°	12.2	12.5	11.0	9.6	8.3	8.5	9.8	11.8	15.8	12.3	13.3
173°	12.2	12.7	11.0	9.6	8.7	8.7	10.0	11.9	15.8	12.3	13.3
174°	12.2	12.8	11.0	9.6	8.5	8.9	10.4	11.9	15.7	12.3	13.3
175°	12.3	13.0	11.0	9.5	8.7	9.3	10.2	12.0	15.6	12.3	13.3
176°	12.3	13.2	11.2	9.5	9.3	9.3	10.2	12.0	15.5	12.3	13.4
177°	12.3	13.3	11.2	9.5	9.5	9.5	10.2	12.1	15.4	12.3	13.4



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3039.3	3039.3	3039.3	3039.3	3039.3	3039.3
1°	3039.1	3040.3	3040.7	3039.9	3039.1	3039.5
2°	3038.7	3040.1	3041.1	3040.1	3039.3	3038.7
3°	3037.5	3040.3	3041.3	3040.1	3036.5	3035.5
4°	3034.8	3037.7	3038.7	3037.5	3032.4	3030.2
5°	3031.2	3033.8	3034.8	3034.9	3026.8	3024.3
6°	3026.4	3028.4	3029.8	3030.8	3019.7	3016.5
7°	3021.1	3022.5	3023.9	3025.5	3011.6	3007.4
8°	3014.4	3016.0	3016.9	3018.5	3001.9	2997.5
9°	3006.5	3008.8	3009.6	3010.8	2991.2	2986.7
10°	2998.1	3000.5	3001.3	3001.5	2978.7	2974.0
11°	2989.0	2991.8	2992.4	2991.8	2965.3	2960.0
12°	2978.2	2981.9	2981.9	2980.5	2950.8	2944.5
13°	2967.1	2970.6	2970.6	2967.7	2935.2	2928.1
14°	2954.4	2958.6	2958.8	2953.2	2918.2	2911.1
15°	2941.2	2945.9	2946.5	2938.0	2900.8	2892.3
16°	2926.9	2931.7	2932.6	2921.2	2881.8	2873.1
17°	2911.7	2916.8	2918.0	2904.3	2862.6	2853.3
18°	2895.6	2901.0	2901.2	2885.7	2843.2	2831.1
19°	2879.0	2884.8	2884.2	2866.5	2821.0	2808.0
20°	2859.6	2866.7	2865.6	2847.0	2797.9	2783.6
21°	2840.0	2848.9	2846.4	2826.2	2773.5	2757.9
22°	2820.0	2830.3	2826.8	2804.4	2749.0	2731.2
23°	2799.9	2810.5	2805.8	2780.1	2722.5	2703.5
24°	2778.3	2791.2	2784.2	2756.1	2695.2	2675.0
25°	2755.1	2770.2	2761.3	2731.0	2667.5	2646.1
26°	2732.0	2748.2	2737.9	2703.7	2639.2	2615.8
27°	2708.0	2725.7	2712.8	2676.4	2609.3	2583.6
28°	2684.1	2701.5	2689.6	2649.1	2578.4	2551.7
29°	2659.2	2678.2	2664.5	2620.2	2547.4	2517.7
30°	2633.6	2653.4	2639.6	2590.9	2514.9	2483.8
31°	2607.7	2627.9	2613.1	2560.8	2481.3	2449.8
32°	2581.6	2601.8	2587.3	2529.8	2448.0	2413.4
33°	2554.1	2575.7	2560.0	2498.1	2413.4	2377.6
34°	2526.2	2548.7	2531.9	2466.8	2378.2	2340.8
35°	2497.7	2520.6	2503.4	2434.2	2342.4	2303.0
36°	2470.2	2494.9	2473.6	2401.1	2306.1	2265.4
37°	2440.3	2466.4	2444.1	2367.5	2269.3	2227.0
38°	2410.0	2438.7	2412.6	2332.5	2232.1	2187.6
39°	2380.9	2410.4	2384.3	2297.4	2193.9	2148.4
40°	2350.7	2381.3	2352.8	2262.6	2155.6	2109.8
41°	2320.4	2351.9	2321.8	2227.0	2116.6	2069.9
42°	2289.1	2321.2	2290.1	2189.8	2078.0	2028.3



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2193.7	2227.6	2191.6	2079.2	1958.2	1902.0
46°	2161.1	2195.1	2158.7	2040.6	1917.0	1859.4
47°	2127.8	2162.9	2124.3	2003.0	1875.0	1815.9
48°	2095.6	2129.8	2090.1	1965.0	1834.3	1771.9
49°	2062.3	2097.4	2056.8	1926.7	1792.1	1727.6
50°	2028.3	2066.1	2020.8	1888.1	1750.3	1683.2
51°	1993.3	2032.3	1986.4	1849.6	1707.1	1638.3
52°	1959.2	2000.4	1949.6	1810.7	1664.3	1593.4
53°	1923.8	1967.4	1915.1	1771.4	1621.8	1549.0
54°	1888.6	1933.4	1879.1	1732.2	1578.0	1502.8
55°	1853.5	1900.1	1841.6	1693.2	1535.8	1457.9
56°	1817.7	1866.0	1806.4	1653.8	1491.6	1412.2
57°	1781.4	1831.7	1768.7	1614.2	1448.6	1366.7
58°	1745.2	1795.2	1731.1	1575.0	1404.6	1320.4
59°	1707.6	1759.8	1693.4	1535.5	1360.5	1273.8
60°	1671.2	1724.6	1655.9	1495.2	1315.5	1227.7
61°	1633.7	1687.6	1618.3	1455.1	1271.5	1180.4
62°	1595.2	1651.8	1580.1	1416.0	1227.4	1133.7
63°	1557.9	1614.4	1542.0	1375.4	1182.7	1085.4
64°	1519.6	1577.5	1503.8	1334.7	1138.5	1038.7
65°	1481.5	1540.2	1465.6	1294.6	1094.5	990.5
66°	1443.4	1502.3	1427.5	1254.4	1050.8	942.4
67°	1404.5	1465.1	1388.4	1213.5	1006.3	894.7
68°	1365.4	1426.4	1349.3	1172.4	961.8	847.3
69°	1325.9	1388.4	1310.2	1131.9	918.1	799.7
70°	1286.4	1349.6	1272.0	1090.9	874.7	752.6
71°	1246.8	1310.6	1233.1	1050.2	830.9	704.4
72°	1207.9	1273.0	1193.8	1009.8	788.2	658.5
73°	1168.6	1233.6	1154.2	968.9	745.0	611.5
74°	1129.6	1194.3	1114.7	928.9	702.1	564.0
75°	1090.6	1152.3	1076.1	888.0	660.1	517.4
76°	1052.7	1109.1	1037.2	848.5	618.5	472.0
77°	1014.4	1067.6	998.4	808.4	577.1	427.5
78°	975.3	1024.2	959.5	769.2	537.2	383.4
79°	937.2	982.6	920.3	730.6	497.7	340.5
80°	898.3	942.3	882.0	693.6	459.0	298.8
81°	861.5	901.5	844.0	657.4	420.9	259.4
82°	825.0	862.3	805.8	622.1	385.2	220.7
83°	788.8	824.9	770.1	587.5	350.3	183.0
84°	754.8	789.0	733.9	554.3	317.7	150.3
85°	721.2	754.6	700.3	522.6	287.9	120.5
86°	689.7	723.1	668.8	492.8	260.6	94.1
87°	659.5	692.0	638.9	465.6	234.8	72.5



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	587.8	618.9	566.7	398.9	177.5	38.6
91°	568.3	599.0	546.8	382.4	166.7	36.8
92°	551.8	581.1	529.6	368.0	157.4	35.6
93°	535.2	564.6	513.9	354.5	148.3	34.6
94°	519.4	548.9	497.4	340.4	139.2	33.6
95°	503.2	532.6	481.4	326.9	130.9	33.0
96°	486.4	517.4	466.7	315.2	122.9	32.3
97°	470.7	502.6	451.8	303.8	114.9	31.5
98°	455.3	487.1	437.8	292.1	108.0	30.7
99°	439.6	472.7	423.9	280.3	101.0	30.1
100°	424.7	459.0	409.1	268.1	94.4	29.7
101°	410.2	444.7	394.4	257.5	88.6	29.7
102°	395.2	431.2	380.5	247.0	83.0	29.1
103°	381.5	417.9	366.5	236.3	77.5	28.8
104°	366.6	404.8	353.4	225.5	72.8	28.0
105°	353.3	391.7	341.6	215.1	67.5	27.6
106°	339.3	379.6	330.1	205.1	63.4	27.0
107°	326.0	366.3	318.2	195.3	59.0	26.6
108°	313.0	352.9	305.7	186.3	55.0	25.8
109°	300.5	339.5	292.8	177.1	51.0	25.4
110°	288.2	326.2	281.2	168.1	47.0	24.8
111°	276.5	313.2	269.0	159.6	43.5	24.4
112°	264.9	300.7	257.7	151.6	40.1	24.1
113°	253.6	288.5	246.5	143.2	37.0	23.9
114°	242.5	276.1	235.6	135.4	33.9	23.5
115°	231.3	265.2	225.0	128.1	31.2	23.1
116°	220.4	253.4	214.4	120.5	28.6	22.3
117°	210.4	242.0	204.2	113.4	26.7	21.9
118°	199.8	230.6	194.0	106.5	25.7	21.7
119°	189.8	220.2	184.8	99.7	25.1	21.1
120°	179.8	209.3	174.8	93.4	24.5	20.7
121°	170.2	198.9	165.5	87.1	24.0	20.1
122°	161.6	188.9	156.6	80.9	23.6	19.8
123°	151.6	178.9	147.5	74.8	23.2	19.0
124°	143.1	169.0	138.8	69.0	23.2	18.2
125°	134.5	160.0	130.4	63.6	22.6	17.8
126°	125.8	150.7	122.3	58.1	22.0	17.0
127°	117.8	141.4	113.9	52.7	21.4	16.8
128°	109.4	132.7	106.1	47.7	21.0	16.4
129°	101.4	124.1	98.3	42.8	20.3	16.0
130°	93.6	115.5	90.3	38.2	20.1	15.6
131°	86.1	107.0	83.3	33.8	19.3	15.1
132°	78.9	99.0	76.1	29.6	18.9	14.7



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	58.7	76.1	56.8	19.3	17.3	13.7
136°	52.1	69.0	50.7	18.7	17.1	13.5
137°	46.1	62.4	45.1	17.9	16.6	12.9
138°	40.1	56.2	39.5	17.5	16.2	12.7
139°	34.1	49.5	34.2	16.9	15.6	12.3
140°	28.7	43.3	29.1	16.5	15.0	12.3
141°	24.1	37.7	24.5	16.3	14.6	11.7
142°	18.7	32.2	20.3	15.7	14.2	11.5
143°	14.7	26.8	17.0	15.2	13.8	11.5
144°	12.2	22.0	16.2	14.8	13.2	11.0
145°	12.2	18.0	15.8	14.2	12.9	10.9
146°	12.0	15.9	15.6	13.8	12.5	10.8
147°	12.2	15.4	15.0	13.6	12.3	10.8
148°	11.3	15.2	14.8	13.0	12.1	10.4
149°	10.8	14.8	14.6	12.6	11.9	10.0
150°	10.3	14.3	14.2	12.2	11.5	10.0
151°	10.1	14.0	13.8	12.0	11.3	9.8
152°	9.3	13.8	13.6	12.0	11.1	9.6
153°	9.1	13.1	13.0	11.6	10.7	9.4
154°	9.1	12.9	12.8	11.6	10.9	9.2
155°	8.5	12.7	12.6	11.6	10.9	9.0
156°	8.5	12.5	12.4	11.6	10.9	9.0
157°	8.6	12.3	12.2	11.6	10.9	9.0
158°	8.7	12.1	12.1	11.6	10.9	9.0
159°	8.7	12.1	11.9	11.6	10.9	9.0
160°	8.8	11.7	11.9	11.6	10.9	9.0
161°	8.8	11.5	11.9	11.6	10.9	9.2
162°	8.9	11.3	11.5	11.6	10.9	9.4
163°	9.5	11.3	11.1	11.6	11.1	10.0
164°	9.7	10.9	11.3	11.6	11.5	10.4
165°	9.9	10.7	11.2	11.7	11.7	10.6
166°	10.1	10.9	11.2	11.7	11.7	11.5
167°	10.3	10.5	11.2	11.7	12.1	11.7
168°	10.7	10.5	11.2	11.8	12.3	11.8
169°	10.9	10.3	11.1	11.8	12.5	12.0
170°	10.7	10.3	11.1	11.8	12.9	12.1
171°	10.7	10.1	11.1	11.9	13.0	12.1
172°	10.9	10.1	11.1	11.9	13.4	12.2
173°	11.3	9.7	10.5	11.9	14.0	12.2
174°	11.7	9.5	10.5	11.9	14.2	12.2
175°	12.0	9.5	10.3	12.0	14.6	12.3
176°	11.8	9.5	10.3	12.0	15.2	12.3
177°	11.8	9.5	10.3	12.0	15.2	12.3



TEST NUMBER: P861215

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	12.3	12.3	12.3	12.3	12.3	12.3



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







43°	1987.2	2016.0	2086.7	2175.7	2208.0	2171.2	2090.6	2007.3	1986.2	2053.8	2156.3
44°	1944.7	1974.9	2049.7	2142.7	2176.3	2137.5	2052.3	1965.9	1944.9	2014.3	2120.1



88°	54.4	206.6	395.7	536.8	595.8	532.9	375.2	182.0	52.8	240.1	464.0
89°	43.6	189.8	377.0	516.7	576.2	513.6	357.5	165.4	39.8	221.0	442.3



133°	14.1	17.4	22.5	57.3	71.1	52.6	15.3	13.4	12.5	14.1	27.3
134°	13.9	17.0	19.1	51.6	64.5	46.6	13.8	12.9	11.9	13.9	23.0



178°	12.3	13.3	11.6	9.5	9.5	9.5	10.2	12.3	15.3	12.3	13.4
179°	12.3	13.3	12.0	9.5	9.5	9.5	10.2	11.9	15.3	12.3	13.4





43°	2257.9	2291.1	2258.1	2153.6	2039.4	1987.2
44°	2225.8	2259.0	2225.4	2116.2	1999.0	1944.7



88°	633.1	665.4	612.2	440.8	212.8	54.4
89°	607.6	641.1	587.6	418.6	193.3	43.6



133°	71.9	91.2	69.3	25.8	18.3	14.1
134°	65.1	83.6	63.0	22.1	17.9	13.9



178°	11.8	9.5	10.3	12.0	15.2	12.3
179°	11.8	9.5	10.3	12.0	15.2	12.3



(END OF REPORT)