

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: P861216

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

Issue Date: 1/11/2023

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



Test Information

Test Method: LM-79-08
Report Number: P861216
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 277V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

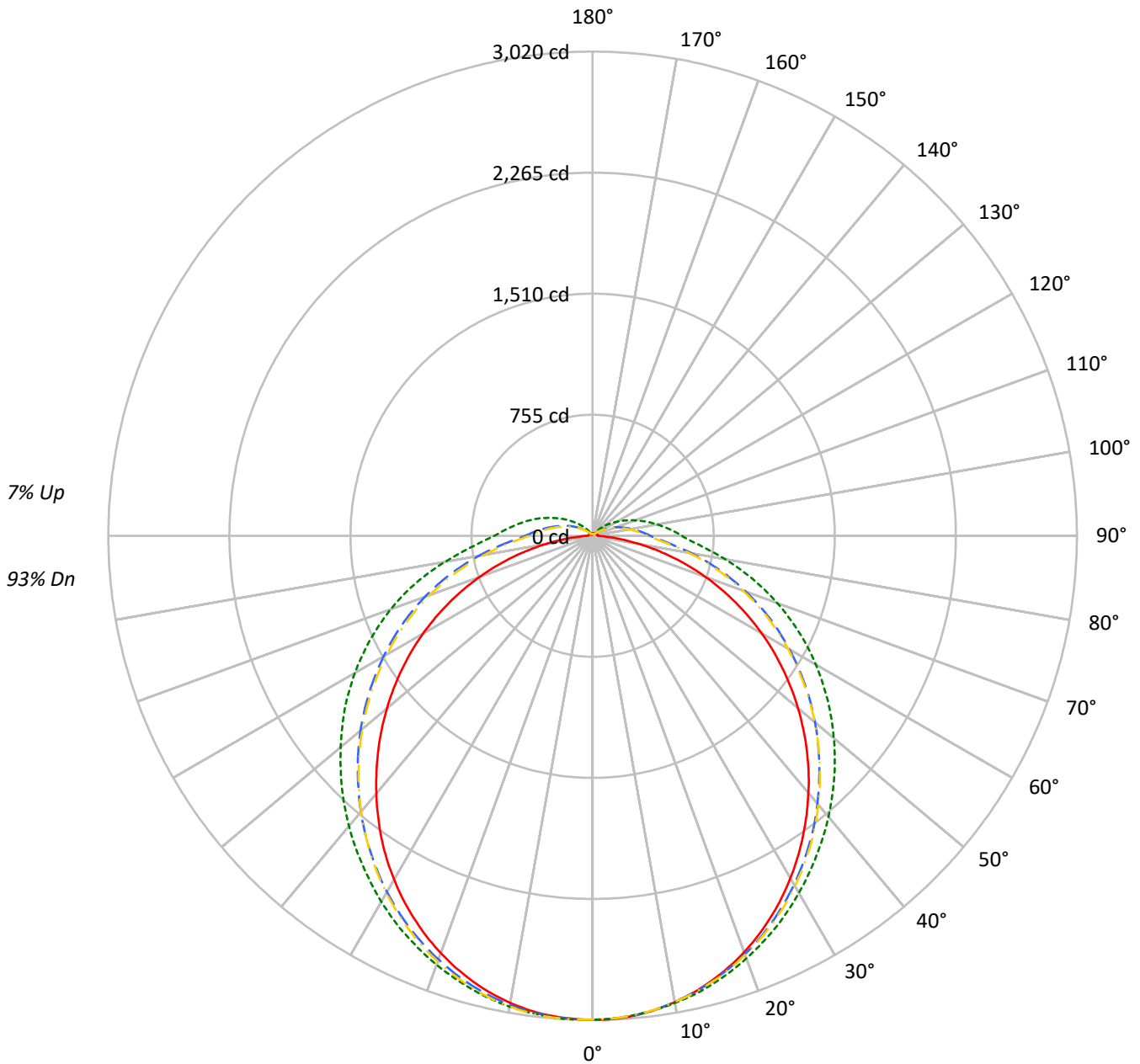
Lumens per Lamp: N/A
Luminaire Lumens: 10250.7 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): 277
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

TEST NUMBER: P861216

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

Luminous Intensity Polar Plot





TEST NUMBER: P861216

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

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°	12185	12185	12185	12185
5°	12162	11899	12165	11945
10°	12083	11617	12104	11707
15°	11968	11336	11997	11458
20°	11826	11044	11851	11211
25°	11641	10761	11678	10971
30°	11428	10477	11470	10734
35°	11191	10210	11237	10499
40°	10936	9964	10959	10295
45°	10668	9729	10676	10103
50°	10368	9499	10389	9924
55°	10040	9277	10063	9786
60°	9663	9055	9693	9645
65°	9184	8816	9214	9506
70°	8564	8566	8614	9372
75°	7700	8297	7742	9213
80°	6490	8059	6554	8980
85°	4908	8024	4941	8983



TEST NUMBER: P861216

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	2.8
10°-20°	816.2	8.0
20°-30°	1234.4	12.0
30°-40°	1491.7	14.6
40°-50°	1569.5	15.3
50°-60°	1474.2	14.4
60°-70°	1229.1	12.0
70°-80°	876.6	8.6
80°-90°	513.5	5.0
90°-100°	320.4	3.1
100°-110°	210.6	2.1
110°-120°	124.1	1.2
120°-130°	63.4	0.6
130°-140°	24.6	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°	2336.1	22.8
0°-40°	3827.9	37.3
0°-60°	6871.6	67.0
0°-90°	9490.9	92.6
90°-120°	655.0	6.4
90°-150°	751.2	7.3
90°-180°	760.0	7.4
0°-180°	10250.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3019	3019	3019	3019	3019	
5°	3004	3001	3005	3013	3004	285
15°	2872	2894	2879	2926	2872	810
25°	2626	2698	2635	2750	2626	1210
35°	2288	2435	2297	2504	2288	1431
45°	1888	2130	1890	2212	1888	1456
55°	1448	1789	1451	1887	1448	1294
65°	983	1418	986	1529	983	972
75°	513	1028	516	1142	513	544
85°	119	668	119	748	119	134
90°	38	557	32	614	38	23
95°	33	480	27	528	33	26
105°	27	342	23	389	27	29
115°	23	226	21	263	23	22
125°	18	131	16	158	18	16
135°	13	58	12	75	13	10
145°	11	11	9	18	11	7
155°	9	8	9	12	9	4
165°	10	8	12	11	10	3
175°	12	9	14	10	12	1
180°	12	12	12	12	12	



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8
1°	3018.8	3018.8	3018.6	3017.6	3017.0	3016.8	3017.4	3017.2	3018.0	3018.8	3018.8
2°	3018.4	3017.8	3016.2	3015.0	3015.0	3013.8	3014.6	3015.0	3016.0	3017.6	3017.6
3°	3014.8	3014.0	3012.1	3010.9	3011.7	3009.7	3011.5	3012.3	3013.6	3015.4	3015.8
4°	3010.1	3009.3	3007.3	3005.4	3007.1	3004.8	3006.1	3007.5	3010.1	3011.3	3013.2
5°	3004.2	3002.4	3001.8	2999.3	3000.8	2998.5	3000.4	3001.4	3005.0	3006.5	3009.1
6°	2996.7	2994.7	2994.5	2992.2	2994.5	2991.4	2993.5	2994.3	2998.7	3000.0	3003.4
7°	2987.8	2985.5	2986.3	2984.1	2987.4	2984.1	2985.7	2985.7	2990.6	2992.8	2997.1
8°	2977.2	2974.8	2976.6	2974.4	2979.0	2975.2	2976.4	2975.4	2980.9	2983.7	2989.6
9°	2966.0	2963.0	2965.0	2965.4	2969.3	2965.4	2965.2	2964.0	2970.1	2973.6	2980.7
10°	2953.4	2950.4	2952.6	2954.3	2959.3	2954.5	2953.6	2952.0	2958.5	2962.2	2971.1
11°	2939.8	2936.8	2939.4	2941.9	2948.4	2942.9	2940.4	2938.2	2944.7	2949.6	2959.7
12°	2924.8	2922.2	2925.0	2929.7	2936.8	2930.9	2927.4	2923.8	2930.1	2935.8	2947.8
13°	2908.9	2906.7	2910.8	2915.7	2924.2	2917.3	2912.8	2907.7	2914.2	2921.3	2934.3
14°	2890.7	2889.0	2894.7	2901.6	2909.8	2902.4	2897.0	2890.3	2897.8	2906.1	2920.3
15°	2872.0	2871.6	2876.7	2887.2	2894.5	2887.4	2881.1	2870.8	2878.9	2888.6	2904.9
16°	2852.7	2852.7	2858.0	2870.4	2878.3	2871.0	2863.4	2850.4	2858.8	2868.5	2888.6
17°	2832.6	2833.2	2838.9	2853.1	2861.6	2853.7	2843.9	2829.7	2838.3	2848.8	2871.2
18°	2810.6	2812.5	2819.0	2834.2	2843.7	2834.8	2823.4	2807.6	2816.1	2827.9	2852.3
19°	2787.7	2790.1	2799.1	2816.1	2824.9	2814.3	2802.9	2785.0	2793.0	2806.0	2832.2
20°	2763.5	2765.7	2777.9	2795.4	2804.9	2794.6	2781.8	2760.9	2769.4	2783.2	2811.8
21°	2738.1	2741.8	2755.2	2775.3	2784.4	2773.5	2759.6	2736.5	2744.4	2759.2	2791.3
22°	2711.3	2715.6	2731.2	2754.2	2763.9	2752.1	2736.5	2712.1	2718.4	2734.5	2769.6
23°	2683.9	2689.2	2706.8	2731.0	2742.0	2730.2	2712.9	2687.7	2691.6	2709.1	2746.4
24°	2655.6	2661.5	2681.0	2708.0	2720.6	2707.2	2688.1	2661.1	2663.4	2682.5	2723.1
25°	2626.4	2633.5	2655.2	2684.7	2697.9	2683.9	2662.5	2633.9	2634.7	2655.2	2698.7
26°	2596.5	2604.9	2627.4	2660.3	2674.9	2659.1	2636.3	2604.4	2604.4	2627.6	2673.5
27°	2565.4	2574.8	2599.8	2635.1	2649.9	2634.1	2610.1	2575.6	2574.2	2598.4	2647.3
28°	2532.7	2543.7	2571.1	2609.3	2624.8	2608.1	2580.9	2544.3	2541.9	2568.5	2620.9
29°	2500.4	2511.8	2541.9	2582.5	2599.0	2581.7	2552.0	2512.8	2509.6	2537.8	2592.7
30°	2466.7	2479.1	2512.2	2554.5	2572.3	2554.9	2522.6	2481.3	2475.7	2505.9	2564.8
31°	2432.2	2445.8	2481.5	2526.6	2546.1	2527.1	2492.3	2447.8	2441.9	2474.8	2535.4
32°	2397.0	2411.5	2450.5	2498.4	2518.9	2498.6	2461.0	2413.9	2407.0	2442.1	2506.7
33°	2361.3	2376.9	2418.0	2469.4	2491.3	2468.9	2429.1	2379.0	2371.2	2408.2	2475.3
34°	2324.1	2342.0	2386.3	2439.7	2462.7	2439.7	2397.4	2343.8	2334.7	2375.3	2445.0
35°	2287.7	2305.8	2353.2	2410.6	2434.6	2410.6	2364.5	2307.3	2297.1	2340.4	2413.1
36°	2249.8	2269.7	2319.6	2379.8	2406.0	2379.6	2330.4	2270.5	2258.1	2305.0	2381.8
37°	2211.2	2232.3	2287.3	2349.5	2377.5	2349.5	2296.7	2233.1	2218.5	2269.1	2348.9
38°	2172.6	2194.9	2252.0	2319.8	2347.9	2319.2	2261.8	2193.7	2178.9	2232.7	2315.6
39°	2132.8	2156.5	2216.9	2289.4	2318.8	2287.7	2226.0	2154.1	2139.7	2195.3	2282.5
40°	2093.6	2117.3	2180.5	2258.3	2287.7	2255.7	2189.6	2114.7	2098.0	2157.5	2247.7
41°	2054.7	2078.7	2145.3	2225.4	2256.7	2224.4	2152.9	2075.5	2057.6	2120.2	2213.8
42°	2013.5	2039.1	2108.8	2192.9	2225.8	2191.7	2115.7	2035.7	2016.0	2080.6	2178.9



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1888.3	1919.0	1998.1	2094.4	2130.3	2092.1	2002.3	1912.0	1889.7	1961.4	2071.6
46°	1845.6	1878.6	1961.4	2060.2	2098.2	2057.8	1964.0	1870.8	1847.6	1920.5	2035.7
47°	1802.1	1836.4	1924.1	2025.1	2063.9	2023.1	1924.8	1829.0	1804.7	1880.4	1999.3
48°	1758.8	1794.5	1886.7	1991.2	2031.0	1989.1	1886.4	1786.8	1761.8	1840.1	1962.9
49°	1714.8	1751.7	1848.7	1956.3	1997.7	1954.1	1847.0	1743.6	1718.1	1798.0	1925.6
50°	1671.6	1709.6	1810.1	1921.9	1963.3	1918.0	1807.7	1700.1	1674.9	1756.5	1889.5
51°	1626.6	1667.1	1772.0	1885.8	1929.6	1883.2	1768.4	1657.9	1631.0	1714.2	1852.5
52°	1582.5	1623.4	1733.1	1850.9	1894.8	1846.8	1728.0	1613.9	1586.1	1671.6	1814.2
53°	1538.1	1580.6	1694.5	1815.2	1859.6	1810.3	1687.9	1570.6	1541.5	1629.0	1776.4
54°	1493.0	1537.0	1655.5	1778.0	1824.0	1773.5	1647.7	1526.9	1496.4	1587.0	1737.9
55°	1447.9	1493.3	1615.8	1742.2	1788.9	1736.5	1607.4	1482.5	1451.2	1543.7	1699.2
56°	1402.6	1450.1	1576.0	1705.0	1752.6	1699.8	1566.7	1438.4	1405.8	1500.2	1661.2
57°	1357.0	1406.1	1536.3	1667.7	1716.3	1662.3	1526.3	1394.1	1360.2	1457.5	1622.3
58°	1311.4	1361.6	1496.9	1628.9	1681.5	1624.4	1485.7	1349.8	1314.0	1413.6	1583.6
59°	1265.2	1318.0	1457.4	1590.9	1644.1	1586.1	1445.9	1304.7	1268.2	1370.5	1543.8
60°	1218.6	1274.5	1417.6	1552.4	1607.3	1547.4	1405.0	1261.0	1222.4	1327.5	1505.5
61°	1171.2	1230.0	1377.6	1513.0	1570.7	1509.1	1364.3	1215.4	1175.1	1283.9	1467.0
62°	1124.1	1186.6	1337.7	1475.8	1532.4	1470.2	1323.7	1170.3	1127.8	1240.9	1427.4
63°	1077.2	1142.9	1297.8	1436.7	1495.5	1431.3	1283.7	1125.8	1080.7	1197.8	1388.7
64°	1030.8	1098.9	1258.5	1399.7	1457.2	1392.7	1243.0	1081.8	1034.0	1153.6	1349.8
65°	983.0	1055.6	1218.7	1362.3	1417.9	1352.9	1201.8	1037.4	986.3	1110.2	1309.7
66°	935.4	1011.4	1178.0	1322.8	1381.1	1314.3	1161.3	993.4	939.0	1067.8	1271.5
67°	888.2	967.9	1136.9	1284.7	1341.0	1275.1	1119.9	949.6	891.6	1024.0	1231.9
68°	840.8	923.8	1095.5	1244.8	1303.6	1235.9	1079.2	905.8	844.8	980.5	1192.1
69°	794.1	880.4	1055.6	1206.2	1264.5	1196.6	1037.6	861.8	797.0	936.9	1152.3
70°	746.4	837.8	1015.1	1166.0	1224.4	1157.6	996.4	819.0	750.8	894.2	1112.8
71°	699.1	794.3	975.2	1125.6	1185.4	1117.4	956.0	775.3	702.4	851.3	1072.4
72°	652.6	752.3	935.2	1084.9	1146.7	1078.8	916.1	732.9	656.2	808.9	1033.3
73°	605.5	709.7	896.0	1044.0	1107.1	1038.8	876.5	690.4	608.4	767.6	993.5
74°	558.9	669.7	856.9	1004.1	1067.6	999.4	836.8	648.2	562.1	725.4	953.7
75°	512.9	628.2	817.5	963.9	1028.4	961.0	797.5	606.6	515.7	684.1	914.2
76°	468.0	587.9	777.6	925.2	988.8	922.4	758.4	565.5	470.1	644.2	874.5
77°	423.3	547.6	739.0	887.4	951.0	884.3	720.3	526.5	426.0	604.9	835.4
78°	379.4	508.3	699.5	849.7	912.5	845.9	681.3	486.7	382.0	566.0	796.1
79°	336.7	470.4	662.7	812.5	874.7	808.3	644.3	450.0	338.8	527.1	757.3
80°	295.7	434.1	625.9	775.4	838.2	772.0	608.2	412.4	298.6	489.2	721.1
81°	255.3	398.4	589.6	739.1	800.7	735.0	571.5	376.4	259.3	452.2	683.1
82°	217.0	364.3	555.1	703.6	766.9	700.3	538.0	341.8	221.1	415.9	647.1
83°	181.0	332.2	521.3	669.7	731.2	666.8	503.7	308.5	184.3	381.3	612.3
84°	148.5	300.7	490.1	637.2	699.3	634.9	473.4	277.6	150.6	347.5	579.5
85°	118.6	272.6	462.6	606.3	668.3	604.8	444.0	248.9	119.4	316.1	547.7
86°	93.1	246.5	436.8	579.3	639.9	576.2	417.1	222.6	92.1	286.7	516.5
87°	71.3	224.2	411.8	554.0	613.0	550.5	392.4	200.2	70.3	260.8	487.2



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	38.0	177.0	360.2	496.9	557.0	495.7	341.5	152.5	31.9	203.0	421.4
91°	36.1	167.7	347.8	482.6	540.4	479.6	327.9	143.3	29.7	191.0	405.1
92°	35.1	158.5	335.4	468.2	525.0	465.9	316.2	134.7	28.7	180.3	390.5
93°	34.1	149.5	323.4	453.7	510.0	451.0	304.8	126.4	28.0	170.3	376.3
94°	33.3	141.3	311.6	440.4	493.8	436.8	293.5	118.6	27.5	160.5	362.4
95°	32.7	133.0	299.5	426.7	479.9	423.4	281.9	111.2	26.6	150.9	348.9
96°	31.9	125.3	288.4	414.4	464.8	408.9	270.9	104.0	26.0	142.2	335.3
97°	31.3	118.0	277.1	401.0	451.2	395.9	261.1	97.4	25.8	133.5	322.0
98°	30.5	111.3	266.8	388.3	436.1	382.8	250.7	91.0	25.7	125.5	309.8
99°	30.1	104.6	256.1	375.6	422.0	370.3	240.4	85.2	25.5	117.3	297.4
100°	29.7	98.4	245.4	362.9	407.7	357.8	229.6	79.3	25.3	110.2	285.4
101°	29.2	92.3	235.0	350.6	394.9	345.0	219.8	74.3	25.2	103.2	273.9
102°	28.8	87.3	225.1	338.1	380.4	331.8	210.3	69.0	24.8	96.7	262.9
103°	28.4	81.7	215.4	325.3	368.3	319.9	201.5	64.2	24.0	90.2	252.1
104°	27.8	76.5	205.9	313.3	354.2	307.3	192.2	59.8	23.6	84.5	241.0
105°	27.2	72.0	197.1	301.7	342.2	296.4	183.7	55.7	23.2	78.9	230.4
106°	26.6	67.3	188.0	289.7	329.2	284.9	174.7	51.3	23.2	73.3	220.2
107°	26.0	63.3	179.7	278.5	316.6	274.6	166.2	47.4	22.6	68.2	209.8
108°	25.4	58.9	171.2	267.7	304.7	263.9	157.1	43.5	22.2	63.7	200.1
109°	25.0	54.7	163.1	256.6	292.9	253.4	149.0	40.3	22.1	59.1	190.4
110°	24.6	50.7	155.1	245.8	280.7	242.4	141.2	36.3	22.0	54.3	181.0
111°	24.2	46.9	147.1	235.6	270.1	232.0	133.9	33.2	21.9	50.0	172.2
112°	23.6	43.0	139.6	224.9	258.6	221.0	126.6	30.2	21.7	45.8	163.5
113°	23.6	39.6	132.0	214.9	247.8	210.9	119.5	27.1	21.6	41.5	155.0
114°	23.0	36.5	124.8	205.1	236.8	200.4	112.3	24.7	21.4	37.9	146.6
115°	22.6	33.2	117.6	195.2	225.9	190.2	105.6	22.5	20.6	34.3	138.5
116°	22.2	30.6	111.0	185.8	216.0	180.2	98.9	20.6	19.8	30.8	130.5
117°	21.8	28.2	104.5	176.7	205.0	171.6	92.8	19.8	19.8	27.6	123.0
118°	21.2	25.8	97.8	167.9	195.8	162.9	86.4	19.2	19.0	24.7	115.1
119°	20.8	24.0	91.7	159.1	185.9	154.4	80.3	18.6	18.8	22.0	107.9
120°	20.4	23.4	85.4	150.8	176.4	146.0	74.4	18.4	18.4	19.7	101.2
121°	19.8	23.0	79.5	142.2	166.9	137.5	68.3	18.0	18.4	18.4	94.3
122°	19.2	22.6	73.6	133.9	158.5	129.4	63.5	17.8	18.2	18.0	87.7
123°	18.6	21.8	68.1	126.3	148.9	121.1	57.8	17.0	17.3	17.7	80.7
124°	17.7	21.8	63.0	118.3	140.6	113.6	52.7	16.6	16.7	17.1	74.8
125°	17.5	21.2	57.5	110.7	131.2	105.9	47.6	16.4	16.2	16.8	68.5
126°	16.9	20.4	52.3	103.1	123.7	98.4	42.6	15.8	15.7	16.3	62.9
127°	16.5	20.2	47.3	96.1	115.4	91.1	38.1	15.6	15.1	15.9	57.4
128°	16.1	19.8	42.6	89.0	107.5	84.0	34.0	15.2	14.6	15.5	51.5
129°	15.5	19.2	37.9	82.0	99.8	76.8	29.1	15.0	14.0	15.3	46.2
130°	15.5	18.8	33.4	75.3	92.6	70.6	25.5	15.0	13.5	15.1	41.2
131°	14.9	18.5	29.5	68.9	84.4	64.3	21.8	13.8	13.1	14.9	35.8
132°	14.5	17.9	25.5	62.8	78.2	58.1	18.5	13.4	12.5	13.9	31.3



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	13.3	16.3	17.1	45.2	57.7	41.1	13.0	12.3	11.7	13.1	18.7
136°	13.1	15.9	16.7	40.0	51.4	35.7	12.5	12.3	10.5	12.8	15.0
137°	12.5	15.5	15.9	35.0	45.5	31.0	12.1	12.4	10.1	12.5	13.1
138°	12.3	15.1	15.7	30.4	39.6	26.4	11.7	12.3	9.7	12.2	12.6
139°	12.1	14.7	14.9	25.4	34.0	21.9	11.2	11.1	9.7	12.0	12.0
140°	11.9	14.1	14.7	21.3	28.7	18.0	10.8	10.5	9.1	11.7	11.8
141°	11.3	13.9	14.5	17.6	23.7	14.3	10.4	10.3	9.0	11.3	11.4
142°	11.2	13.5	14.1	15.0	19.0	11.8	10.0	9.9	9.0	11.0	10.6
143°	11.0	12.9	13.6	14.2	14.8	11.4	9.9	9.5	8.9	10.6	10.0
144°	10.8	12.7	13.2	14.0	12.0	11.0	9.9	9.1	8.9	10.3	9.6
145°	10.7	12.5	12.9	14.0	10.8	10.8	9.8	9.0	8.9	10.1	9.4
146°	10.5	11.9	12.6	13.6	10.2	10.4	9.7	8.9	8.9	10.0	8.8
147°	10.3	11.5	12.2	13.2	10.0	10.0	9.7	8.9	8.9	9.8	8.6
148°	10.1	11.1	11.9	13.0	9.6	9.8	9.6	8.8	8.9	9.6	8.6
149°	9.7	11.1	11.5	12.8	9.4	9.6	9.0	8.7	8.9	9.6	8.7
150°	9.7	10.9	11.2	12.5	9.0	9.5	8.6	8.7	8.9	9.6	8.7
151°	9.5	10.5	11.4	12.3	9.0	9.3	8.6	8.8	8.9	9.6	8.7
152°	9.3	10.3	11.2	12.0	9.2	9.1	8.6	8.8	8.9	9.6	8.8
153°	9.1	10.1	11.0	11.9	9.0	9.0	8.5	8.9	8.9	9.6	8.8
154°	9.1	10.1	10.8	11.7	8.2	8.8	8.5	8.9	8.9	9.6	8.9
155°	9.1	10.1	11.0	11.5	8.2	8.6	8.5	9.0	8.9	9.6	8.9
156°	9.0	10.1	11.0	11.4	8.2	8.2	8.5	9.0	8.9	9.6	9.0
157°	9.0	10.1	10.9	11.2	8.2	8.4	8.5	9.1	8.9	9.5	9.0
158°	9.0	10.1	10.9	11.0	8.1	8.4	8.4	9.1	9.2	9.5	9.0
159°	9.1	10.1	10.9	10.8	8.1	8.4	8.4	9.2	9.6	9.5	9.1
160°	9.3	10.1	10.9	10.7	8.1	8.4	8.4	9.2	9.9	9.5	9.1
161°	9.4	10.1	10.9	10.5	8.2	8.4	8.4	9.3	10.2	9.9	9.2
162°	9.6	10.1	10.9	10.4	8.2	8.4	8.8	9.3	10.5	10.3	10.2
163°	9.7	10.1	10.9	10.2	8.3	8.4	9.0	10.1	10.9	11.1	10.8
164°	9.9	10.1	10.9	10.1	8.3	8.4	9.0	10.5	11.5	11.3	11.2
165°	10.1	10.1	10.9	10.1	8.4	8.4	9.2	10.7	12.3	11.5	11.4
166°	10.7	10.1	10.9	10.0	8.4	8.4	9.6	11.1	12.9	12.1	11.6
167°	11.7	10.3	10.9	9.9	8.4	8.4	9.4	11.5	13.5	12.1	12.2
168°	11.9	10.9	10.8	9.9	8.5	8.4	9.5	11.3	13.7	12.1	12.9
169°	12.1	11.9	10.8	9.8	8.5	8.4	9.6	11.5	13.9	12.1	13.2
170°	11.9	12.1	10.8	9.8	8.5	8.4	9.7	11.5	14.1	12.2	13.1
171°	12.3	12.1	10.8	9.7	8.6	8.4	9.8	11.7	14.3	12.2	13.1
172°	12.3	12.3	10.8	9.7	8.6	8.4	9.9	11.8	14.5	12.2	13.1
173°	12.2	12.7	10.8	9.6	8.6	8.4	10.0	11.9	14.4	12.2	13.1
174°	12.2	13.1	10.8	9.6	8.6	8.8	10.4	12.0	14.4	12.2	13.0
175°	12.2	12.9	10.8	9.5	8.8	8.6	10.2	12.1	14.3	12.3	13.0
176°	12.1	12.9	10.8	9.5	9.2	9.2	10.2	12.2	14.3	12.3	13.0
177°	12.1	12.9	11.4	9.4	9.4	9.4	10.2	12.3	14.3	12.3	13.0



TEST NUMBER: P861216

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

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: P861216

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8
1°	3018.6	3019.1	3019.5	3019.1	3019.1	3018.8
2°	3018.6	3019.3	3019.9	3019.5	3018.9	3018.4
3°	3017.4	3019.5	3019.9	3019.5	3015.8	3014.8
4°	3014.2	3017.2	3018.2	3017.8	3011.5	3010.1
5°	3010.9	3012.6	3014.8	3014.6	3005.8	3004.2
6°	3006.0	3007.9	3010.9	3010.7	2998.7	2996.7
7°	2999.6	3002.0	3005.2	3005.6	2990.4	2987.8
8°	2993.5	2996.5	2998.7	2999.1	2981.3	2977.2
9°	2986.1	2989.4	2991.2	2990.4	2970.3	2966.0
10°	2977.6	2982.1	2982.3	2981.1	2957.9	2953.4
11°	2968.1	2973.3	2972.7	2971.1	2944.5	2939.8
12°	2957.7	2962.2	2962.8	2959.5	2930.5	2924.8
13°	2946.5	2951.2	2952.0	2946.3	2914.4	2908.9
14°	2933.9	2938.6	2940.2	2932.1	2898.0	2890.7
15°	2921.5	2925.6	2927.8	2917.3	2880.5	2872.0
16°	2907.1	2910.8	2913.4	2900.8	2861.4	2852.7
17°	2892.5	2896.6	2899.2	2883.6	2842.3	2832.6
18°	2876.0	2880.5	2882.3	2865.1	2822.4	2810.6
19°	2858.6	2864.7	2865.1	2845.4	2800.5	2787.7
20°	2840.1	2847.4	2846.2	2825.1	2777.5	2763.5
21°	2819.8	2829.3	2826.9	2805.1	2753.6	2738.1
22°	2799.7	2810.6	2807.4	2782.8	2728.4	2711.3
23°	2778.7	2790.5	2787.1	2758.8	2702.4	2683.9
24°	2757.8	2770.6	2765.5	2734.5	2676.2	2655.6
25°	2736.1	2750.5	2742.8	2710.1	2648.3	2626.4
26°	2714.7	2730.4	2720.2	2684.3	2619.9	2596.5
27°	2691.0	2707.4	2695.4	2657.7	2589.8	2565.4
28°	2666.6	2684.3	2671.7	2629.8	2559.6	2532.7
29°	2642.0	2659.7	2645.7	2601.6	2528.1	2500.4
30°	2617.2	2635.3	2621.3	2572.1	2496.8	2466.7
31°	2591.6	2610.1	2595.3	2542.3	2464.3	2432.2
32°	2564.4	2583.7	2568.9	2512.4	2430.2	2397.0
33°	2537.4	2557.1	2541.7	2480.9	2396.4	2361.3
34°	2510.2	2531.3	2515.1	2448.8	2361.7	2324.1
35°	2481.7	2503.7	2486.0	2416.9	2326.1	2287.7
36°	2452.3	2476.9	2457.4	2382.8	2290.0	2249.8
37°	2422.6	2449.0	2428.7	2349.7	2253.6	2211.2
38°	2393.4	2421.8	2398.5	2315.6	2216.0	2172.6
39°	2363.7	2393.2	2368.2	2281.3	2178.7	2132.8
40°	2333.3	2363.7	2337.7	2245.3	2140.1	2093.6
41°	2304.2	2334.7	2306.6	2210.4	2101.5	2054.7
42°	2273.5	2304.2	2274.8	2173.8	2062.7	2013.5



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2179.7	2212.2	2177.0	2063.7	1943.6	1888.3
46°	2147.2	2180.1	2143.5	2026.3	1902.9	1845.6
47°	2114.5	2147.6	2111.2	1988.5	1862.6	1802.1
48°	2081.8	2116.3	2076.3	1950.2	1821.5	1758.8
49°	2048.3	2083.4	2042.6	1912.5	1779.8	1714.8
50°	2014.9	2051.1	2007.8	1874.3	1738.0	1671.6
51°	1981.2	2018.4	1972.3	1835.6	1695.1	1626.6
52°	1946.2	1985.1	1937.5	1796.9	1653.5	1582.5
53°	1912.0	1953.5	1902.4	1757.8	1610.7	1538.1
54°	1876.9	1919.9	1866.3	1718.8	1568.1	1493.0
55°	1841.6	1887.0	1829.5	1680.1	1524.9	1447.9
56°	1805.4	1852.6	1792.4	1640.5	1481.9	1402.6
57°	1770.1	1818.5	1756.4	1601.3	1438.1	1357.0
58°	1733.3	1782.6	1717.9	1561.1	1395.2	1311.4
59°	1696.8	1747.3	1681.7	1521.5	1351.0	1265.2
60°	1660.0	1712.0	1643.8	1482.1	1307.0	1218.6
61°	1622.4	1675.0	1607.3	1442.4	1262.7	1171.2
62°	1584.8	1639.4	1569.1	1402.6	1218.7	1124.1
63°	1547.4	1602.6	1531.4	1362.8	1174.3	1077.2
64°	1509.5	1565.9	1493.0	1322.6	1130.5	1030.8
65°	1472.1	1528.9	1454.7	1282.9	1085.7	983.0
66°	1434.7	1490.8	1416.5	1243.4	1041.8	935.4
67°	1395.9	1454.1	1377.9	1203.7	998.3	888.2
68°	1357.6	1414.8	1339.2	1163.5	954.7	840.8
69°	1318.9	1378.1	1300.5	1122.4	910.6	794.1
70°	1280.4	1339.5	1262.1	1082.6	867.8	746.4
71°	1240.4	1300.8	1223.2	1041.9	824.1	699.1
72°	1201.3	1262.4	1184.6	1001.9	781.7	652.6
73°	1161.8	1223.0	1145.6	960.9	739.0	605.5
74°	1122.4	1183.7	1106.1	921.1	696.2	558.9
75°	1084.7	1141.9	1067.7	880.6	654.2	512.9
76°	1046.3	1100.6	1029.1	841.2	613.3	468.0
77°	1008.7	1058.0	990.3	801.4	572.6	423.3
78°	970.2	1015.0	952.3	762.1	532.3	379.4
79°	931.3	974.7	911.9	724.2	492.5	336.7
80°	893.2	934.0	875.0	687.1	454.0	295.7
81°	856.3	893.8	837.0	651.3	416.7	255.3
82°	819.2	855.1	799.4	616.0	381.5	217.0
83°	783.9	817.5	763.3	582.4	347.4	181.0
84°	750.0	782.9	728.0	549.2	315.2	148.5
85°	716.8	748.2	694.4	517.7	284.9	118.6
86°	685.1	717.7	663.2	488.3	257.9	93.1
87°	655.3	686.9	633.6	461.1	232.3	71.3



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	584.0	613.9	562.2	394.9	176.1	38.0
91°	564.6	593.8	541.9	379.4	165.5	36.1
92°	547.8	576.6	525.5	365.2	155.8	35.1
93°	531.8	560.1	509.7	351.4	147.0	34.1
94°	515.6	544.2	493.4	337.3	137.9	33.3
95°	499.3	528.3	478.3	324.1	129.7	32.7
96°	483.0	513.3	463.0	312.4	121.8	31.9
97°	467.7	498.2	448.1	301.3	113.8	31.3
98°	452.1	482.8	434.2	289.6	106.4	30.5
99°	436.3	469.8	420.3	277.5	99.8	30.1
100°	422.0	455.3	405.5	266.4	93.7	29.7
101°	407.5	441.0	391.2	255.1	87.6	29.2
102°	392.2	428.2	377.1	244.5	81.8	28.8
103°	379.3	414.7	363.2	234.0	76.9	28.4
104°	364.2	401.2	350.4	223.3	71.7	27.8
105°	351.1	388.7	338.5	213.3	66.8	27.2
106°	337.2	376.1	327.2	203.2	62.5	26.6
107°	323.8	363.0	315.6	193.7	58.4	26.0
108°	310.8	350.0	302.8	184.2	54.3	25.4
109°	298.7	336.9	290.5	175.4	50.3	25.0
110°	286.2	323.3	278.8	166.8	46.4	24.6
111°	274.4	310.6	266.9	158.1	42.9	24.2
112°	262.8	298.0	255.5	149.8	39.6	23.6
113°	251.8	285.7	244.0	141.8	36.4	23.6
114°	240.5	273.9	233.1	134.0	33.4	23.0
115°	229.6	262.7	222.8	126.8	30.7	22.6
116°	219.0	251.0	212.5	119.3	28.1	22.2
117°	208.8	239.4	202.0	112.2	26.1	21.8
118°	197.9	228.6	191.7	105.4	24.9	21.2
119°	188.3	217.7	182.3	98.8	24.9	20.8
120°	178.8	207.6	172.7	92.3	24.3	20.4
121°	168.7	196.9	163.8	85.9	23.7	19.8
122°	160.0	187.0	154.8	80.0	23.3	19.2
123°	150.6	177.1	145.7	73.7	22.9	18.6
124°	141.9	167.5	137.1	68.0	22.5	17.7
125°	133.4	158.3	129.0	62.9	22.0	17.5
126°	124.6	149.0	120.7	57.1	21.7	16.9
127°	116.9	139.7	112.4	52.0	21.0	16.5
128°	108.4	131.1	104.7	46.9	20.6	16.1
129°	100.7	122.4	96.9	42.1	20.4	15.5
130°	93.0	114.2	89.2	37.2	19.6	15.5
131°	85.4	105.6	82.0	33.4	19.0	14.9
132°	78.4	97.7	74.9	29.0	18.6	14.5



TEST NUMBER: P861216

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	57.8	75.0	55.8	19.2	17.2	13.3
136°	51.5	67.9	49.9	18.4	17.0	13.1
137°	45.5	61.6	44.0	17.6	16.2	12.5
138°	39.5	55.3	38.7	17.2	15.8	12.3
139°	33.7	48.8	33.5	16.8	15.4	12.1
140°	28.2	42.7	28.5	16.2	14.8	11.9
141°	23.2	37.1	23.7	16.0	14.4	11.3
142°	18.3	31.6	19.7	15.4	14.0	11.2
143°	14.2	26.3	16.7	15.0	13.6	11.0
144°	12.2	21.4	16.1	14.6	13.4	10.8
145°	11.8	17.5	15.5	14.0	12.8	10.7
146°	11.6	15.5	15.1	13.8	12.7	10.5
147°	11.4	14.9	15.1	13.2	11.9	10.3
148°	10.6	14.7	14.7	12.8	12.1	10.1
149°	10.2	14.5	14.5	12.4	11.7	9.7
150°	10.0	14.1	14.0	12.2	11.3	9.7
151°	9.8	13.7	13.7	11.8	11.3	9.5
152°	9.0	13.5	13.0	11.6	10.7	9.3
153°	9.2	12.9	12.8	11.4	10.7	9.1
154°	8.8	12.9	12.8	11.4	10.7	9.1
155°	8.7	12.3	12.3	11.4	10.7	9.1
156°	8.6	12.1	12.2	11.4	10.7	9.0
157°	8.5	11.9	11.8	11.4	10.7	9.0
158°	8.4	11.7	11.6	11.5	10.8	9.0
159°	8.3	11.5	11.4	11.5	10.8	9.1
160°	8.2	11.3	11.6	11.5	10.8	9.3
161°	8.4	11.3	11.4	11.5	10.8	9.4
162°	8.6	11.1	11.0	11.5	10.8	9.6
163°	9.0	11.0	11.0	11.5	10.9	9.7
164°	9.4	10.9	10.9	11.5	11.5	9.9
165°	9.8	10.8	10.8	11.5	11.7	10.1
166°	9.8	10.7	10.8	11.5	12.1	10.7
167°	10.0	10.5	10.7	11.6	11.9	11.7
168°	10.6	10.3	10.6	11.6	12.1	11.9
169°	10.4	10.2	10.6	11.6	12.3	12.1
170°	10.8	10.1	10.5	11.6	12.5	11.9
171°	10.8	9.9	10.5	11.6	12.8	12.3
172°	10.9	9.8	10.4	11.7	13.0	12.3
173°	10.9	9.7	10.4	11.7	13.2	12.2
174°	11.0	9.6	10.4	11.7	13.6	12.2
175°	11.1	9.5	10.3	11.8	13.6	12.2
176°	11.1	9.4	10.3	11.8	13.6	12.1
177°	11.2	9.2	10.2	12.0	14.0	12.1



TEST NUMBER: P861216

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

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°	1971.9	2000.3	2071.6	2159.8	2194.1	2158.4	2078.5	1994.8	1973.9	2040.7	2143.1
44°	1930.0	1960.5	2035.5	2126.9	2162.4	2125.4	2040.7	1954.0	1932.0	2001.5	2107.4



88°	53.3	204.4	391.3	532.8	592.1	530.2	373.1	181.0	52.6	238.8	461.4
89°	42.8	188.0	373.5	512.9	572.3	510.5	355.6	164.5	39.9	219.4	440.1



133°	13.9	17.5	22.1	56.8	70.5	52.2	15.6	13.0	12.1	13.5	26.9
134°	13.7	17.1	18.8	51.1	64.4	46.6	13.4	12.8	12.1	13.3	22.5



178°	12.3	12.9	11.2	9.4	9.4	9.2	10.2	12.3	13.9	12.3	13.0
179°	12.3	12.9	11.2	9.4	9.4	9.2	10.2	12.3	13.9	12.3	13.0





43°	2242.2	2274.3	2243.1	2138.0	2023.1	1971.9
44°	2211.2	2242.2	2210.2	2101.3	1983.4	1930.0



88°	629.2	659.6	606.9	436.5	210.7	53.3
89°	603.7	635.9	583.1	414.9	190.7	42.8



133°	71.0	89.9	68.2	25.2	18.4	13.9
134°	64.6	82.6	62.3	21.8	17.6	13.7



178°	11.2	9.2	10.2	12.2	13.8	12.3
179°	11.2	9.2	10.2	12.4	13.8	12.3



(END OF REPORT)