

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: P861203

Luminaire Tested: **8APVTLD-SL3C3 HI 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: P861203
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: 8APVTLD-SL3C3 HI POWER 4000K 120V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

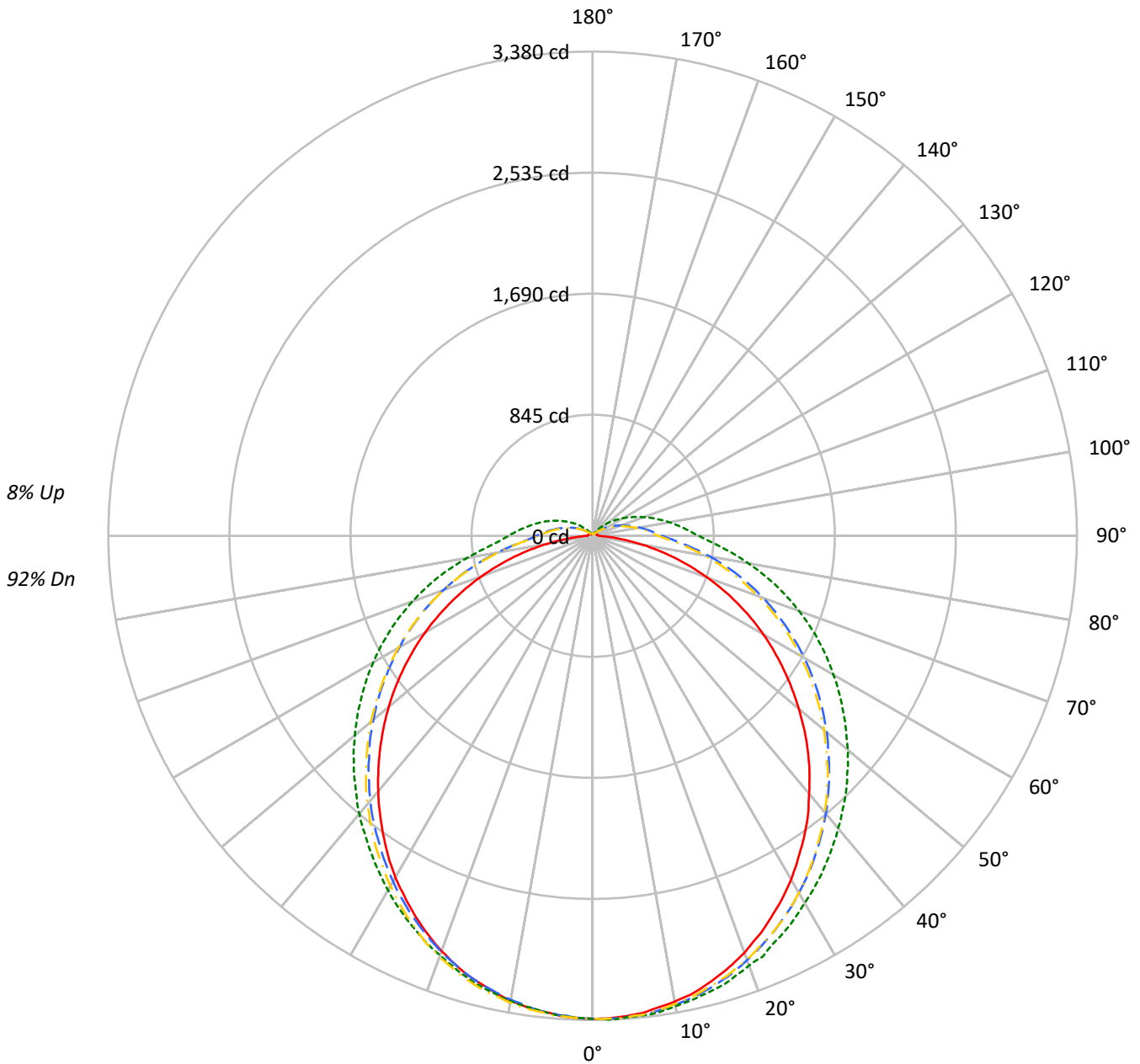
Lumens per Lamp: N/A
Luminaire Lumens: 11483.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 94
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

TEST NUMBER: P861203

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

Luminous Intensity Polar Plot





TEST NUMBER: P861203

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

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	92			
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	79	76	74			
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	60			
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50			
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42			
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36			
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32			
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	28			
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25			
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22			
10	50	37	29	24	49	36	29	23	35	28	23	33	27	22	32	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13610	13610	13610	13610
5°	13579	13356	13546	13284
10°	13510	13093	13485	12945
15°	13407	12840	13353	12628
20°	13257	12568	13200	12270
25°	13043	12328	12984	11954
30°	12835	12058	12758	11637
35°	12579	11830	12462	11316
40°	12285	11608	12162	11033
45°	12006	11433	11840	10751
50°	11658	11255	11516	10480
55°	11282	11066	11148	10221
60°	10912	10928	10706	9960
65°	10415	10815	10151	9682
70°	9754	10718	9453	9355
75°	8862	10639	8473	8988
80°	7559	10602	7070	8546
85°	5939	10792	5335	8402



TEST NUMBER: P861203

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	2.8
10°-20°	911.7	7.9
20°-30°	1379.4	12.0
30°-40°	1666.9	14.5
40°-50°	1754.6	15.3
50°-60°	1648.0	14.4
60°-70°	1374.9	12.0
70°-80°	981.8	8.5
80°-90°	578.6	5.0
90°-100°	362.1	3.2
100°-110°	238.8	2.1
110°-120°	141.9	1.2
120°-130°	73.5	0.6
130°-140°	29.9	0.3
140°-150°	10.9	0.1
150°-160°	6.4	0.1
160°-170°	4.1	0.0
170°-180°	1.5	0.0
0°-30°	2610.0	22.7
0°-40°	4276.9	37.2
0°-60°	7679.5	66.9
0°-90°	10614.8	92.4
90°-120°	742.8	6.5
90°-150°	857.1	7.5
90°-180°	869.0	7.6
0°-180°	11483.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3372	3372	3372	3372	3372	
5°	3354	3368	3346	3350	3354	318
15°	3217	3278	3204	3224	3217	907
25°	2943	3091	2930	2997	2943	1356
35°	2571	2821	2548	2698	2571	1608
45°	2125	2504	2096	2354	2125	1637
55°	1627	2134	1608	1971	1627	1456
65°	1115	1739	1086	1557	1115	1103
75°	590	1319	564	1114	590	624
85°	144	899	129	700	144	159
90°	43	740	40	587	43	27
95°	37	635	34	504	37	30
105°	31	459	30	368	31	33
115°	27	308	26	244	27	27
125°	21	188	21	144	21	19
135°	17	93	14	63	17	13
145°	14	24	11	18	14	9
155°	13	13	11	14	13	6
165°	14	13	15	13	14	4
175°	16	13	19	13	16	2
180°	16	16	16	16	16	



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7
1°	3371.5	3377.0	3371.7	3372.9	3374.9	3374.3	3374.5	3371.5	3370.0	3370.9	3371.1
2°	3370.0	3374.9	3374.7	3374.9	3380.2	3373.3	3372.5	3370.5	3367.0	3366.8	3364.6
3°	3365.4	3373.7	3372.1	3368.8	3377.0	3372.1	3373.9	3366.6	3363.5	3361.3	3356.6
4°	3360.7	3373.1	3367.2	3367.8	3370.5	3366.8	3371.3	3358.3	3357.9	3356.4	3353.6
5°	3354.4	3369.0	3363.7	3361.1	3368.4	3363.9	3363.3	3355.4	3346.3	3353.0	3342.2
6°	3348.7	3360.1	3360.3	3359.9	3366.0	3359.1	3363.3	3349.7	3339.4	3342.6	3340.6
7°	3335.3	3351.4	3356.0	3352.4	3365.2	3352.0	3351.2	3339.0	3332.0	3332.9	3330.2
8°	3323.9	3342.8	3344.6	3350.3	3357.5	3347.5	3343.6	3329.2	3320.9	3321.9	3314.4
9°	3314.2	3324.7	3335.1	3341.0	3344.8	3340.8	3330.4	3321.7	3307.9	3309.7	3300.6
10°	3302.2	3309.3	3322.9	3332.3	3335.3	3330.0	3318.8	3303.8	3296.1	3293.4	3289.0
11°	3287.3	3303.2	3313.2	3320.9	3324.9	3319.9	3307.1	3293.6	3280.4	3276.0	3273.9
12°	3276.2	3285.3	3299.7	3310.5	3315.6	3306.7	3293.4	3275.4	3261.1	3257.3	3256.5
13°	3259.1	3269.7	3286.7	3298.3	3303.0	3293.6	3278.4	3255.6	3241.0	3235.3	3240.2
14°	3237.2	3249.1	3270.7	3283.9	3290.4	3282.5	3261.3	3238.2	3223.3	3212.6	3224.2
15°	3217.2	3232.5	3255.4	3271.1	3278.4	3263.4	3245.9	3218.9	3204.4	3196.1	3204.2
16°	3194.1	3212.8	3236.7	3253.6	3267.6	3246.3	3226.8	3199.0	3186.6	3173.4	3184.1
17°	3171.9	3192.2	3218.7	3237.6	3251.2	3233.5	3210.7	3171.3	3162.6	3150.0	3161.6
18°	3147.9	3174.8	3199.2	3218.7	3229.4	3215.6	3189.2	3150.8	3136.2	3126.8	3138.6
19°	3122.3	3145.5	3176.0	3200.6	3212.2	3198.7	3166.2	3124.0	3109.5	3102.8	3114.2
20°	3098.0	3119.1	3152.2	3182.3	3192.0	3176.6	3147.9	3103.0	3084.6	3078.9	3091.1
21°	3065.7	3092.3	3129.3	3165.2	3177.6	3156.7	3125.2	3079.5	3056.1	3048.2	3062.4
22°	3036.6	3070.7	3104.5	3140.8	3168.7	3139.8	3097.8	3054.5	3023.6	3018.1	3036.4
23°	3009.4	3038.8	3079.7	3115.0	3136.2	3115.4	3076.2	3016.9	2993.5	2987.8	3005.9
24°	2977.5	3009.0	3053.5	3096.7	3111.6	3089.8	3052.6	2993.1	2961.2	2959.2	2977.7
25°	2942.7	2981.5	3028.5	3071.8	3090.6	3067.3	3026.2	2964.5	2929.5	2927.5	2947.0
26°	2909.6	2950.8	2998.0	3050.4	3067.5	3042.1	3000.4	2931.9	2894.6	2892.5	2918.9
27°	2879.3	2920.8	2969.7	3020.5	3043.5	3016.9	2972.2	2897.6	2860.8	2858.8	2885.6
28°	2842.9	2882.8	2941.5	2996.6	3015.7	2992.5	2940.3	2861.0	2822.4	2822.0	2854.1
29°	2806.6	2850.5	2912.8	2969.7	2988.0	2966.3	2909.8	2826.1	2790.1	2787.9	2821.2
30°	2770.4	2817.5	2879.7	2942.1	2960.4	2933.4	2879.9	2793.4	2753.7	2750.1	2786.5
31°	2730.8	2781.2	2848.2	2913.3	2935.2	2909.6	2845.6	2752.9	2712.9	2714.1	2751.5
32°	2690.8	2746.4	2816.1	2883.2	2909.2	2878.5	2811.2	2717.2	2675.9	2678.6	2714.9
33°	2649.7	2702.9	2785.0	2852.7	2880.1	2851.3	2776.9	2680.2	2633.9	2642.0	2680.4
34°	2611.3	2667.2	2748.7	2822.0	2853.5	2823.4	2742.6	2643.2	2590.4	2598.7	2642.0
35°	2571.3	2628.8	2712.9	2791.3	2821.0	2788.7	2708.4	2601.6	2547.5	2556.2	2603.0
36°	2530.4	2590.4	2679.2	2760.3	2791.1	2754.8	2668.6	2559.7	2504.6	2516.0	2569.0
37°	2489.4	2551.4	2641.8	2728.5	2762.1	2724.9	2633.7	2521.9	2461.7	2476.2	2532.3
38°	2444.3	2508.1	2607.9	2695.0	2728.8	2688.1	2598.7	2477.8	2418.3	2436.3	2494.9
39°	2396.3	2465.2	2570.1	2661.7	2700.9	2652.1	2556.6	2436.8	2373.8	2395.3	2455.7
40°	2351.8	2422.5	2533.3	2629.4	2665.2	2622.1	2519.9	2395.7	2328.3	2350.0	2413.4
41°	2305.9	2384.7	2495.5	2598.3	2637.9	2588.1	2482.1	2349.8	2283.5	2310.0	2373.6
42°	2262.6	2340.2	2453.8	2563.8	2600.5	2552.0	2442.2	2307.9	2236.6	2263.8	2331.7



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	2125.1	2213.8	2333.7	2456.7	2503.6	2449.4	2322.6	2172.8	2095.8	2128.1	2205.9
46°	2076.7	2168.1	2293.3	2419.7	2469.1	2415.0	2271.1	2129.5	2048.6	2081.8	2168.1
47°	2027.3	2119.0	2254.1	2381.1	2430.1	2375.8	2236.8	2082.0	2000.9	2034.6	2128.3
48°	1978.3	2076.3	2211.0	2347.6	2398.6	2337.8	2189.3	2037.7	1953.5	1988.7	2085.2
49°	1928.8	2027.7	2174.0	2312.2	2358.5	2300.8	2149.4	1990.3	1906.3	1939.3	2042.1
50°	1879.6	1981.6	2133.8	2270.3	2326.2	2260.6	2107.2	1944.6	1856.6	1891.5	1996.8
51°	1829.5	1932.8	2089.7	2234.4	2284.8	2220.4	2062.1	1897.2	1808.8	1845.1	1953.0
52°	1779.4	1889.2	2048.2	2200.6	2247.4	2180.1	2019.0	1849.0	1758.9	1794.4	1913.9
53°	1729.0	1840.9	2008.2	2161.8	2211.2	2142.3	1978.5	1800.6	1707.7	1748.3	1868.7
54°	1678.2	1791.6	1964.3	2121.2	2173.6	2103.7	1935.9	1754.8	1657.1	1700.7	1824.8
55°	1627.0	1744.9	1923.2	2082.6	2133.8	2065.5	1891.8	1706.6	1607.7	1652.4	1778.9
56°	1577.3	1694.6	1880.3	2045.0	2096.6	2024.7	1845.0	1655.2	1555.8	1601.9	1734.4
57°	1527.1	1647.1	1836.7	2003.3	2059.4	1986.9	1806.7	1605.7	1504.0	1553.7	1691.3
58°	1478.2	1598.5	1793.2	1963.7	2019.8	1943.9	1762.0	1556.6	1452.7	1504.7	1646.5
59°	1428.2	1550.7	1749.7	1922.1	1982.2	1904.5	1714.6	1510.0	1401.8	1455.3	1602.6
60°	1376.1	1500.8	1706.3	1882.3	1939.8	1861.2	1670.7	1459.3	1350.1	1408.2	1555.2
61°	1323.2	1454.1	1660.5	1840.8	1902.6	1820.1	1630.5	1411.8	1297.4	1358.3	1514.7
62°	1272.5	1404.5	1619.9	1798.6	1862.8	1780.5	1586.8	1363.4	1245.2	1308.4	1469.6
63°	1220.5	1356.4	1571.4	1758.4	1822.4	1738.2	1539.4	1315.5	1191.4	1259.5	1423.5
64°	1167.2	1309.3	1528.6	1715.7	1784.0	1696.3	1497.4	1264.8	1140.0	1210.1	1378.4
65°	1114.8	1260.0	1484.8	1676.2	1739.4	1651.4	1452.1	1216.0	1086.5	1160.7	1330.9
66°	1062.6	1210.9	1440.2	1634.0	1702.7	1610.1	1407.7	1168.7	1034.6	1111.1	1288.6
67°	1009.3	1163.6	1396.5	1589.0	1658.5	1568.1	1362.3	1119.8	982.1	1063.1	1243.5
68°	956.3	1113.7	1352.5	1546.8	1618.2	1525.2	1317.7	1071.4	928.6	1015.0	1197.6
69°	903.4	1067.8	1308.7	1502.8	1573.8	1482.7	1272.9	1022.0	876.1	966.8	1152.9
70°	850.1	1019.3	1265.7	1461.4	1531.9	1438.9	1227.7	974.2	823.9	918.4	1107.7
71°	796.9	970.4	1220.0	1415.8	1488.3	1396.5	1183.1	928.1	768.7	870.2	1061.2
72°	745.4	922.6	1180.6	1373.9	1445.7	1352.4	1137.8	881.2	718.3	822.9	1018.9
73°	694.6	876.1	1134.1	1328.8	1404.1	1310.7	1094.0	833.1	667.6	775.5	974.9
74°	641.2	828.6	1092.2	1281.7	1359.5	1265.9	1048.5	786.2	615.6	729.6	929.4
75°	590.3	783.1	1046.6	1239.1	1318.7	1224.1	1005.8	739.6	564.4	683.4	885.2
76°	538.0	736.1	1002.8	1195.5	1273.9	1179.7	962.7	693.5	513.9	638.7	840.0
77°	488.2	692.5	959.1	1153.1	1230.4	1137.7	919.8	648.2	463.8	594.4	797.1
78°	438.3	648.0	915.3	1109.8	1186.6	1094.0	875.1	603.1	414.4	552.1	755.4
79°	391.1	605.0	873.4	1067.9	1145.4	1052.7	835.4	562.2	367.7	508.7	715.7
80°	344.4	562.1	829.1	1024.2	1102.8	1009.9	791.1	518.9	322.1	468.3	673.5
81°	299.7	519.9	787.5	984.2	1060.0	970.1	751.5	478.5	278.9	428.8	634.6
82°	256.2	481.8	747.4	942.9	1018.5	930.6	710.1	437.2	236.0	391.3	597.1
83°	216.4	442.5	705.8	903.0	978.5	889.7	672.0	400.9	197.1	356.3	562.4
84°	178.5	406.4	666.6	862.8	937.9	852.1	633.2	363.6	161.6	323.0	528.6
85°	143.5	371.3	630.0	823.5	898.9	815.1	599.1	330.2	128.9	291.3	497.2
86°	112.1	336.4	595.1	786.7	864.6	781.0	567.1	298.9	99.8	263.0	469.0
87°	86.3	305.0	563.2	750.4	827.3	746.2	534.3	270.2	74.8	237.1	443.2



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	42.8	237.6	484.7	661.9	740.5	659.6	457.0	206.6	39.5	190.9	394.0
91°	40.7	222.2	464.5	639.5	712.8	635.7	439.0	193.1	37.9	180.1	378.9
92°	39.6	210.3	446.9	620.8	693.3	616.9	423.0	182.6	36.9	169.6	365.1
93°	38.4	197.8	431.2	603.3	673.3	598.1	408.3	172.1	35.8	159.8	351.5
94°	37.8	187.1	416.3	584.0	653.4	579.9	393.6	161.8	35.0	150.9	338.0
95°	37.1	176.7	402.3	567.1	634.6	562.2	380.0	151.6	33.8	142.4	324.4
96°	36.4	166.7	386.5	550.2	614.3	544.8	365.2	142.7	33.1	133.7	311.8
97°	35.5	157.2	371.6	533.3	596.5	527.7	351.8	133.7	32.6	125.6	299.5
98°	35.0	147.8	357.3	516.7	578.4	510.5	338.5	125.6	31.7	117.9	287.6
99°	34.5	139.8	344.2	500.6	560.5	493.3	325.0	117.7	31.0	110.3	276.8
100°	34.0	132.0	329.0	484.2	543.0	477.1	312.2	111.0	30.9	103.4	265.0
101°	33.5	124.6	315.8	468.7	525.6	460.9	299.2	103.5	30.6	96.9	254.4
102°	32.9	117.1	303.0	452.5	508.6	445.4	286.0	96.7	30.4	90.6	242.4
103°	32.6	109.9	290.8	435.4	491.5	430.7	274.6	90.5	30.2	85.0	232.3
104°	32.1	103.7	278.8	419.2	473.7	415.0	261.0	84.5	29.9	79.5	221.7
105°	31.3	97.3	267.3	405.2	459.3	400.3	250.7	78.7	29.7	74.1	211.8
106°	31.1	91.0	255.4	389.9	442.2	384.7	238.6	73.4	29.7	68.8	202.6
107°	30.9	85.8	244.0	374.1	427.2	370.2	228.5	68.4	28.7	63.7	193.0
108°	30.2	79.9	233.6	360.9	410.0	355.3	216.9	63.2	28.3	58.7	183.2
109°	29.5	74.7	222.6	346.3	396.6	341.9	207.8	58.6	28.0	54.8	174.3
110°	29.0	69.5	212.5	332.6	379.7	327.1	196.8	54.4	27.8	50.4	165.3
111°	28.7	64.4	202.3	319.4	366.3	314.6	187.1	49.9	27.8	46.4	157.1
112°	28.3	59.9	192.5	305.4	351.0	301.6	177.3	45.7	26.9	42.4	148.6
113°	28.0	56.0	182.9	292.8	336.1	288.7	168.4	42.1	26.9	38.8	140.5
114°	27.3	51.5	173.4	280.1	323.4	275.8	159.4	38.3	26.7	35.6	132.6
115°	26.6	47.4	164.5	267.6	308.4	262.9	151.0	35.1	25.7	32.2	124.8
116°	26.3	43.8	155.7	254.8	296.3	250.9	142.3	31.7	25.4	29.4	116.9
117°	25.9	39.9	147.0	243.3	281.9	239.8	134.4	29.3	25.0	26.9	110.1
118°	25.4	36.7	138.7	232.6	269.8	228.2	126.1	26.5	24.7	24.4	102.7
119°	24.9	33.5	131.1	221.0	257.1	216.8	118.3	24.8	24.2	24.4	96.0
120°	24.5	30.8	122.9	209.8	245.8	206.1	110.8	24.6	24.0	24.1	89.0
121°	23.9	28.9	115.5	199.3	233.2	194.5	103.1	23.9	23.7	22.9	81.9
122°	23.3	28.2	108.0	188.6	222.7	184.4	96.2	23.7	22.6	22.5	76.0
123°	22.5	27.7	100.8	179.1	209.2	174.1	88.8	23.4	21.8	22.0	69.5
124°	21.6	27.3	93.5	168.7	199.6	163.8	82.2	22.4	21.3	21.5	63.3
125°	21.3	26.6	86.5	158.6	187.9	153.9	75.3	22.2	20.7	21.3	57.7
126°	20.8	26.1	80.0	149.6	177.9	144.5	69.0	21.5	20.1	21.3	52.3
127°	20.4	25.6	73.3	139.9	167.2	135.5	62.8	21.4	19.6	20.8	47.4
128°	20.1	24.9	67.2	131.2	157.7	126.9	57.2	21.5	18.7	20.3	42.0
129°	19.7	24.2	60.9	122.4	147.2	117.1	51.7	20.5	18.2	19.4	36.9
130°	19.2	23.9	55.6	113.4	138.8	109.3	46.6	20.0	17.3	19.1	32.5
131°	18.7	23.4	50.0	105.2	128.2	100.8	41.1	19.3	16.8	18.7	27.7
132°	18.2	22.9	44.6	96.6	120.3	93.2	36.5	19.0	16.1	18.2	23.8



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	17.2	21.5	30.6	74.0	93.3	70.5	23.5	17.6	14.4	16.7	16.5
136°	16.8	21.1	26.3	66.8	84.9	63.1	19.9	17.3	14.1	16.2	15.9
137°	16.5	20.5	23.1	60.0	76.8	56.6	18.7	16.7	13.7	16.0	15.5
138°	16.3	20.1	21.9	54.0	68.9	50.8	17.6	16.6	13.6	16.0	14.8
139°	16.0	19.6	21.4	47.4	61.6	44.6	17.0	15.9	13.4	15.7	14.3
140°	15.6	19.2	20.7	41.7	54.9	38.8	16.6	15.6	13.5	15.0	13.6
141°	15.1	18.6	20.4	36.0	48.0	33.3	16.1	15.5	13.0	14.3	13.5
142°	15.1	18.4	19.8	30.8	41.4	28.2	15.7	14.7	12.7	13.9	13.1
143°	15.1	17.9	19.3	25.9	35.6	23.5	15.2	14.2	12.2	13.8	12.4
144°	14.8	17.7	19.0	21.8	29.3	19.6	14.5	13.8	11.5	13.6	12.2
145°	14.2	17.2	18.5	20.4	23.9	17.2	14.2	13.7	11.3	13.6	11.9
146°	14.1	16.7	18.1	19.7	19.2	16.7	14.0	13.3	11.3	13.5	11.7
147°	14.1	16.3	17.8	19.4	16.8	16.3	14.0	13.5	11.3	13.5	11.7
148°	13.6	16.0	17.4	19.0	16.3	16.3	13.7	13.3	11.3	13.4	11.7
149°	13.4	15.5	16.9	18.7	16.0	16.2	13.7	13.0	11.3	13.3	11.7
150°	13.2	15.3	16.6	18.0	16.0	16.2	13.5	13.0	11.2	13.3	11.6
151°	12.9	15.0	16.4	17.8	15.5	15.8	13.3	13.1	11.2	13.2	11.6
152°	12.9	14.9	16.3	17.6	14.9	15.0	13.3	13.2	11.2	13.2	11.6
153°	12.7	14.4	16.2	17.3	14.2	14.6	13.3	13.3	11.2	13.2	11.6
154°	12.8	14.4	16.1	16.9	14.1	14.3	13.3	13.4	11.2	13.2	11.6
155°	12.8	14.5	16.0	16.8	13.4	14.1	13.3	13.5	11.2	13.2	11.6
156°	12.9	14.5	15.9	16.6	13.4	13.6	13.3	13.7	11.2	13.2	11.6
157°	13.0	14.5	15.8	16.3	13.2	13.7	13.3	13.8	11.2	13.2	11.6
158°	13.1	14.5	15.8	16.4	13.2	13.4	13.3	13.9	11.5	13.2	11.6
159°	13.1	14.5	15.8	15.7	13.2	13.0	13.3	14.0	11.5	13.4	11.6
160°	13.2	14.6	15.8	15.7	13.1	13.0	13.3	14.1	11.8	13.6	11.6
161°	13.2	14.6	15.8	15.9	13.1	13.0	13.4	14.2	12.5	13.9	12.4
162°	13.4	14.7	15.7	15.6	13.1	13.0	13.5	14.3	13.4	14.6	13.3
163°	13.6	14.8	15.7	15.4	13.1	13.0	13.6	14.9	14.3	15.0	14.0
164°	13.7	14.8	15.7	15.1	13.1	13.0	13.6	15.2	14.8	15.1	14.3
165°	14.4	14.9	15.7	15.2	13.1	13.0	13.7	15.5	15.3	15.3	14.8
166°	14.8	15.0	15.6	14.9	13.0	13.0	13.8	15.7	15.8	15.5	15.5
167°	15.3	15.6	15.6	14.9	13.0	13.0	13.9	16.0	16.5	15.8	16.0
168°	15.8	15.6	15.6	14.7	13.0	12.9	13.9	16.1	16.8	16.3	16.9
169°	15.8	16.0	15.6	14.7	13.0	12.9	13.9	16.1	17.3	16.3	17.4
170°	15.9	15.8	15.5	14.5	13.0	12.9	13.9	16.1	17.7	16.3	18.1
171°	15.9	16.2	15.5	14.4	13.0	12.9	13.8	16.1	17.7	16.3	18.8
172°	15.9	16.0	15.5	14.2	12.9	12.9	13.8	16.1	18.2	16.3	19.0
173°	16.0	16.5	15.5	13.7	12.9	12.9	13.8	16.4	18.4	16.2	19.0
174°	16.0	16.3	15.4	13.3	12.9	12.9	13.8	16.6	18.5	16.2	19.1
175°	16.0	16.7	15.3	13.3	12.9	12.9	13.7	16.6	18.7	16.2	19.0
176°	16.1	17.0	15.2	13.1	12.9	12.9	13.7	16.6	18.9	16.2	18.8
177°	16.1	17.2	15.2	13.1	12.9	12.9	13.7	16.6	19.0	16.2	18.4



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1



TEST NUMBER: P861203

CATALOG NUMBER: 8APVTLTD-SL3C3 HI POWER 4000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7
1°	3367.8	3367.4	3372.9	3371.5	3372.7	3371.5
2°	3361.5	3367.0	3370.9	3369.0	3370.0	3370.0
3°	3358.9	3358.5	3363.9	3363.5	3365.6	3365.4
4°	3352.2	3356.8	3360.3	3361.3	3358.3	3360.7
5°	3347.1	3350.1	3355.6	3359.7	3350.3	3354.4
6°	3337.9	3340.2	3345.1	3345.5	3342.2	3348.7
7°	3332.0	3328.0	3337.5	3338.6	3333.7	3335.3
8°	3320.3	3319.9	3328.2	3333.3	3323.7	3323.9
9°	3309.3	3311.1	3314.4	3322.1	3311.7	3314.2
10°	3292.4	3297.5	3301.6	3309.5	3295.5	3302.2
11°	3279.2	3286.7	3289.8	3295.9	3280.8	3287.3
12°	3268.9	3268.2	3281.2	3281.5	3263.0	3276.2
13°	3255.6	3255.8	3266.2	3271.1	3246.5	3259.1
14°	3236.7	3239.0	3250.2	3253.8	3227.4	3237.2
15°	3217.9	3224.4	3233.1	3235.9	3207.5	3217.2
16°	3196.1	3202.0	3215.0	3215.8	3186.2	3194.1
17°	3178.8	3183.3	3197.7	3196.5	3161.0	3171.9
18°	3154.5	3159.1	3174.6	3172.5	3143.3	3147.9
19°	3132.5	3138.2	3155.1	3148.6	3112.2	3122.3
20°	3110.6	3116.3	3128.6	3128.0	3090.0	3098.0
21°	3088.0	3095.9	3106.1	3097.6	3060.6	3065.7
22°	3061.2	3073.2	3082.1	3078.7	3032.7	3036.6
23°	3038.2	3049.0	3061.0	3047.0	3002.5	3009.4
24°	3009.0	3022.6	3035.6	3017.1	2975.0	2977.5
25°	2986.0	2997.0	3005.3	2983.8	2941.1	2942.7
26°	2952.5	2972.2	2973.4	2956.3	2906.1	2909.6
27°	2925.2	2943.5	2943.3	2923.8	2872.6	2879.3
28°	2897.2	2916.1	2919.6	2891.3	2834.8	2842.9
29°	2868.6	2888.1	2885.0	2858.2	2798.0	2806.6
30°	2836.2	2857.0	2856.2	2821.8	2763.5	2770.4
31°	2809.8	2827.3	2824.3	2788.3	2727.9	2730.8
32°	2772.6	2793.6	2790.3	2748.5	2691.6	2690.8
33°	2741.8	2763.1	2759.6	2712.5	2651.5	2649.7
34°	2709.7	2730.8	2725.1	2677.7	2611.5	2611.3
35°	2677.5	2698.5	2688.1	2643.0	2571.9	2571.3
36°	2639.3	2666.0	2654.6	2602.8	2530.6	2530.4
37°	2602.0	2631.8	2620.7	2564.2	2489.0	2489.4
38°	2569.0	2599.9	2587.9	2524.3	2446.7	2444.3
39°	2538.4	2569.4	2553.4	2480.9	2404.0	2396.3
40°	2506.9	2533.1	2515.6	2444.3	2358.5	2351.8
41°	2464.4	2500.8	2480.6	2404.0	2314.4	2305.9
42°	2429.8	2459.9	2445.9	2363.8	2270.3	2262.6



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2315.4	2354.3	2331.9	2234.6	2134.0	2125.1
46°	2280.5	2317.5	2291.9	2190.5	2082.6	2076.7
47°	2243.3	2280.3	2254.7	2148.6	2039.3	2027.3
48°	2204.7	2244.9	2213.4	2105.7	1991.6	1978.3
49°	2163.7	2204.5	2173.2	2062.7	1944.2	1928.8
50°	2125.1	2166.1	2130.3	2018.4	1897.5	1879.6
51°	2088.5	2128.1	2091.7	1972.0	1848.4	1829.5
52°	2042.8	2089.5	2049.7	1927.4	1798.0	1779.4
53°	2002.7	2052.1	2011.1	1884.0	1750.0	1729.0
54°	1962.8	2010.4	1966.4	1836.6	1701.1	1678.2
55°	1922.8	1971.0	1927.2	1792.6	1651.8	1627.0
56°	1880.5	1932.0	1884.6	1746.8	1604.9	1577.3
57°	1839.5	1892.1	1843.0	1701.5	1554.6	1527.1
58°	1795.8	1850.4	1799.3	1657.2	1504.8	1478.2
59°	1754.1	1810.3	1755.3	1613.3	1455.8	1428.2
60°	1708.4	1768.0	1714.0	1565.7	1406.4	1376.1
61°	1664.8	1726.7	1669.4	1521.5	1355.7	1323.2
62°	1621.0	1685.4	1625.2	1472.6	1308.9	1272.5
63°	1577.9	1642.9	1580.8	1429.3	1260.4	1220.5
64°	1535.5	1600.1	1537.3	1382.2	1210.1	1167.2
65°	1489.4	1557.2	1494.2	1334.8	1161.0	1114.8
66°	1448.9	1513.6	1448.3	1288.2	1112.1	1062.6
67°	1403.9	1471.5	1403.0	1243.9	1063.5	1009.3
68°	1361.6	1423.0	1361.3	1196.7	1012.0	956.3
69°	1318.6	1381.0	1315.8	1151.0	963.3	903.4
70°	1273.9	1337.1	1272.5	1106.2	917.0	850.1
71°	1229.3	1291.5	1227.7	1059.1	866.3	796.9
72°	1187.7	1249.3	1184.8	1014.9	819.0	745.4
73°	1143.1	1201.9	1138.4	967.9	771.0	694.6
74°	1097.2	1159.6	1094.9	922.2	725.5	641.2
75°	1053.7	1114.0	1051.5	877.9	678.0	590.3
76°	1006.9	1068.1	1008.4	833.4	631.2	538.0
77°	963.3	1021.6	965.3	790.2	587.2	488.2
78°	921.9	975.3	920.6	749.5	542.5	438.3
79°	880.7	932.3	879.2	707.1	500.7	391.1
80°	841.3	888.9	837.6	667.4	459.0	344.4
81°	801.9	846.5	796.2	628.9	419.2	299.7
82°	764.3	806.6	758.2	591.0	381.6	256.2
83°	729.2	769.3	718.9	555.8	345.6	216.4
84°	695.2	733.7	683.1	520.3	311.0	178.5
85°	663.4	699.8	649.8	488.4	277.8	143.5
86°	634.8	671.7	620.3	460.8	250.0	112.1
87°	607.6	645.6	594.5	434.4	224.8	86.3



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	552.1	587.3	536.8	379.3	174.0	42.8
91°	535.3	569.9	519.8	365.8	163.7	40.7
92°	519.8	552.5	502.8	352.3	153.2	39.6
93°	503.4	535.8	487.3	338.5	144.5	38.4
94°	487.6	519.7	471.7	324.2	136.6	37.8
95°	470.8	503.9	456.5	311.3	128.4	37.1
96°	455.7	489.7	442.4	299.3	119.9	36.4
97°	439.8	474.4	427.9	288.3	112.8	35.5
98°	425.6	460.2	413.7	277.3	105.8	35.0
99°	410.5	446.3	399.6	266.4	99.0	34.5
100°	396.4	432.6	385.6	255.3	93.1	34.0
101°	383.2	418.3	371.8	243.7	87.5	33.5
102°	368.1	406.3	358.6	233.6	81.9	32.9
103°	355.1	392.9	346.6	223.8	76.4	32.6
104°	340.8	380.4	335.0	213.4	71.4	32.1
105°	327.8	367.8	323.4	203.6	66.6	31.3
106°	315.4	355.5	311.2	193.5	61.8	31.1
107°	302.6	343.1	298.2	184.3	57.7	30.9
108°	290.2	330.1	285.4	174.8	54.3	30.2
109°	278.4	316.9	273.9	166.2	50.4	29.5
110°	265.4	304.7	262.4	157.9	46.6	29.0
111°	254.6	292.6	250.9	149.7	43.5	28.7
112°	243.3	279.9	239.9	141.8	39.9	28.3
113°	232.6	268.5	229.4	133.9	37.0	28.0
114°	221.9	256.0	218.8	126.4	34.5	27.3
115°	211.6	244.4	208.6	118.8	31.9	26.6
116°	200.9	233.6	198.5	111.9	30.2	26.3
117°	191.8	222.8	187.9	104.7	29.7	25.9
118°	181.2	212.4	178.0	98.0	29.2	25.4
119°	171.4	201.8	168.6	91.4	28.9	24.9
120°	162.3	191.4	159.3	84.9	28.3	24.5
121°	152.3	181.3	150.4	78.8	27.8	23.9
122°	144.1	171.6	141.7	72.6	27.7	23.3
123°	134.9	162.1	132.7	66.8	27.0	22.5
124°	126.7	152.5	124.4	60.9	26.6	21.6
125°	118.7	143.6	116.4	56.0	26.3	21.3
126°	110.0	134.6	108.2	50.7	25.6	20.8
127°	102.0	125.8	100.2	45.6	25.3	20.4
128°	94.5	117.0	92.8	40.8	24.6	20.1
129°	86.1	108.5	85.3	36.3	24.1	19.7
130°	79.6	100.1	77.7	32.1	23.4	19.2
131°	72.0	92.3	70.8	28.2	22.9	18.7
132°	64.8	84.5	63.8	24.8	22.2	18.2



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	46.3	62.8	45.9	21.6	20.8	17.2
136°	40.3	56.5	40.3	21.3	20.2	16.8
137°	34.8	50.1	35.0	20.8	19.8	16.5
138°	29.4	44.1	30.1	20.2	19.3	16.3
139°	24.3	38.2	25.3	19.6	18.6	16.0
140°	19.6	32.8	21.3	19.2	18.1	15.6
141°	16.2	27.5	19.3	18.7	17.8	15.1
142°	15.2	22.8	18.9	18.3	17.4	15.1
143°	14.9	19.5	18.4	18.0	16.9	15.1
144°	14.2	18.4	18.1	17.5	16.6	14.8
145°	14.0	17.9	17.9	16.8	16.1	14.2
146°	13.5	17.5	17.4	16.6	15.9	14.1
147°	13.5	17.2	17.0	15.7	15.5	14.1
148°	13.3	16.7	16.7	15.6	15.2	13.6
149°	13.0	16.5	16.5	15.2	15.0	13.4
150°	12.8	16.0	16.3	15.1	14.5	13.2
151°	12.0	15.6	16.0	14.9	14.5	12.9
152°	11.6	15.3	15.6	14.5	14.0	12.9
153°	11.1	14.9	15.3	14.4	13.7	12.7
154°	10.6	14.8	15.3	14.4	13.7	12.8
155°	10.7	14.4	14.9	14.4	13.7	12.8
156°	10.8	14.3	14.6	14.4	13.7	12.9
157°	11.0	14.1	14.5	14.4	13.8	13.0
158°	11.1	14.0	14.4	14.4	13.8	13.1
159°	11.2	13.9	14.4	14.4	13.8	13.1
160°	11.3	13.7	14.3	14.4	13.8	13.2
161°	11.5	13.6	14.2	14.4	14.0	13.2
162°	11.6	13.4	14.1	14.4	14.4	13.4
163°	11.9	13.2	13.9	14.4	14.9	13.6
164°	12.1	13.2	13.9	14.4	15.5	13.7
165°	12.5	13.0	13.9	14.4	15.7	14.4
166°	12.8	12.9	13.9	14.4	16.2	14.8
167°	13.0	12.9	13.8	14.4	16.9	15.3
168°	13.1	12.7	13.8	14.5	17.3	15.8
169°	13.3	12.9	13.8	14.5	18.1	15.8
170°	13.5	12.7	13.8	14.5	18.5	15.9
171°	13.7	12.7	13.8	14.7	18.6	15.9
172°	14.4	12.6	13.8	15.6	18.8	15.9
173°	15.0	12.6	13.8	16.1	18.8	16.0
174°	15.4	12.6	13.8	16.3	19.0	16.0
175°	15.2	12.6	13.7	16.6	18.8	16.0
176°	15.2	12.5	13.7	16.8	18.8	16.1
177°	15.2	12.5	13.7	17.0	18.8	16.1



TEST NUMBER: P861203

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	16.1	16.1	16.1	16.1	16.1	16.1



Report Generated By 670246072 / DESKTOP-50001EG





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







43°	2217.9	2297.8	2415.0	2527.8	2570.5	2518.2	2395.3	2262.2	2190.9	2219.5	2290.9
44°	2170.6	2256.5	2376.6	2490.2	2537.9	2485.1	2361.8	2219.9	2143.7	2175.4	2252.7



88°	66.2	278.5	534.0	717.6	797.3	715.1	505.5	244.5	57.9	218.8	423.8
89°	50.8	256.7	507.5	688.7	764.9	683.0	478.6	223.0	45.5	202.4	407.7



133°	17.9	22.5	39.9	89.3	110.2	85.1	31.9	18.5	15.4	17.7	19.9
134°	17.5	21.8	34.8	81.3	101.7	77.3	27.3	18.3	14.9	17.2	17.2



178°	16.1	17.2	15.2	13.1	13.0	13.0	13.7	16.6	19.0	16.2	17.9
179°	16.1	17.2	15.2	13.1	13.0	13.4	13.7	16.6	19.0	16.2	17.4





43°	2389.0	2423.5	2408.3	2319.9	2222.2	2217.9
44°	2353.7	2389.0	2368.9	2275.2	2180.5	2170.6



88°	586.2	622.8	572.4	413.1	204.6	66.2
89°	568.4	604.5	554.0	395.2	187.1	50.8



133°	58.3	77.2	57.9	23.0	21.8	17.9
134°	52.4	69.5	51.9	22.2	21.2	17.5



178°	15.2	12.3	13.7	16.8	18.8	16.1
179°	15.2	13.2	13.7	16.8	19.1	16.1



(END OF REPORT)