

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: P861213

Luminaire Tested: **8APVTLD-SL3C3 MID POWER 3500K 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: P861213
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 3500K 120V
Description: MID POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

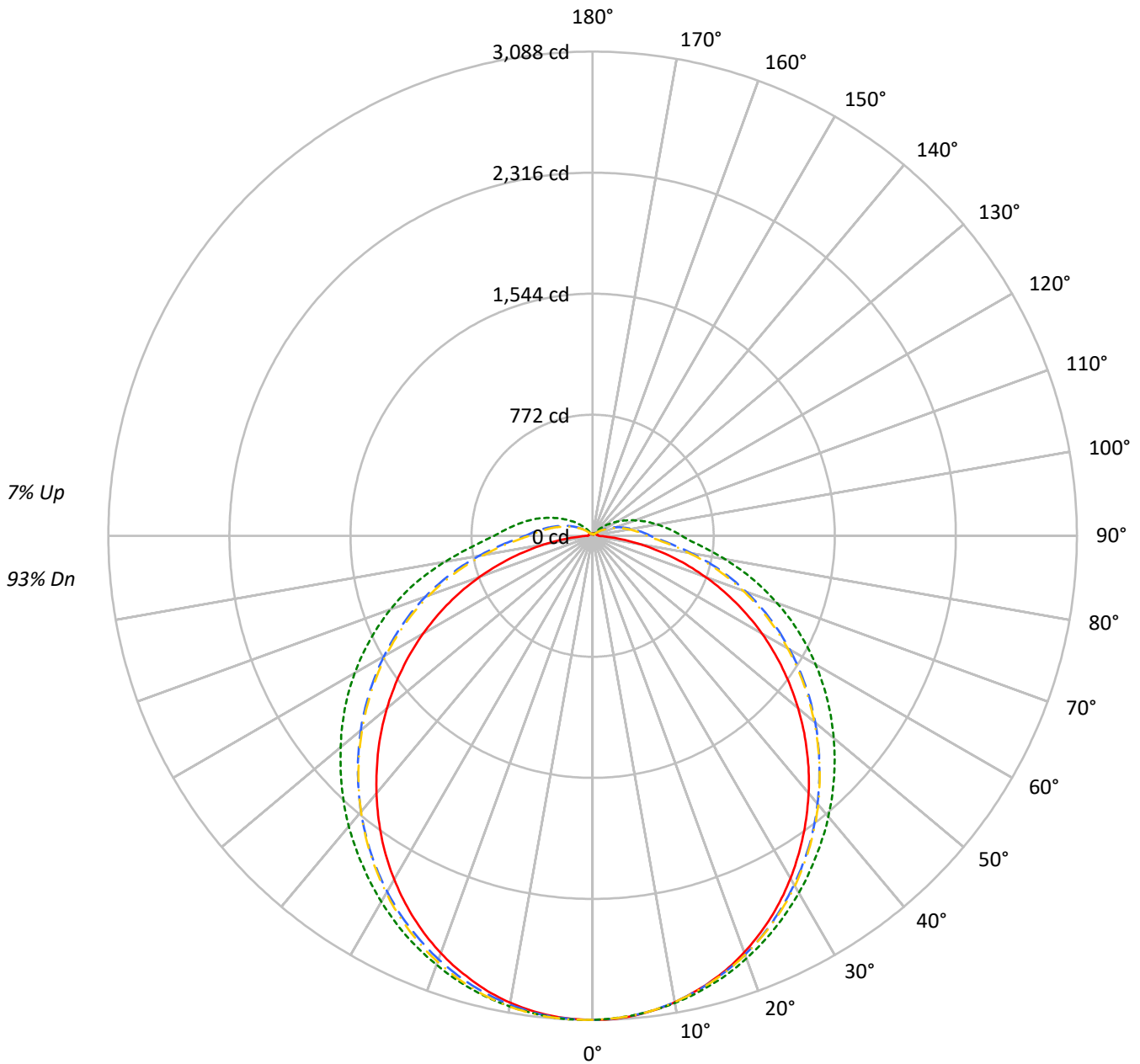
Lumens per Lamp: N/A
Luminaire Lumens: 10483.3 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 77.7
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°	12461	12461	12461	12461
5°	12435	12165	12435	12218
10°	12358	11879	12372	11964
15°	12242	11589	12260	11719
20°	12099	11293	12119	11464
25°	11912	10998	11941	11223
30°	11688	10712	11723	10977
35°	11443	10433	11476	10736
40°	11194	10186	11198	10535
45°	10914	9943	10917	10332
50°	10604	9705	10613	10153
55°	10268	9478	10281	10008
60°	9889	9250	9901	9868
65°	9398	9008	9418	9726
70°	8770	8748	8794	9591
75°	7890	8477	7911	9443
80°	6661	8227	6668	9202
85°	5066	8191	5037	9203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	2.8
10°-20°	834.6	8.0
20°-30°	1262.3	12.0
30°-40°	1525.3	14.5
40°-50°	1604.9	15.3
50°-60°	1507.3	14.4
60°-70°	1256.7	12.0
70°-80°	896.5	8.6
80°-90°	525.4	5.0
90°-100°	327.8	3.1
100°-110°	215.5	2.1
110°-120°	127.2	1.2
120°-130°	65.1	0.6
130°-140°	25.4	0.2
140°-150°	8.4	0.1
150°-160°	4.8	0.0
160°-170°	3.0	0.0
170°-180°	1.1	0.0
0°-30°	2388.9	22.8
0°-40°	3914.2	37.3
0°-60°	7026.4	67.0
0°-90°	9705.0	92.6
90°-120°	670.5	6.4
90°-150°	769.3	7.3
90°-180°	778.0	7.4
0°-180°	10483.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3087	3087	3087	3087	3087	
5°	3072	3068	3072	3081	3072	292
15°	2938	2959	2942	2992	2938	829
25°	2688	2757	2694	2814	2688	1238
35°	2339	2488	2346	2560	2339	1463
45°	1932	2177	1932	2262	1932	1490
55°	1481	1828	1483	1930	1481	1323
65°	1006	1449	1008	1564	1006	995
75°	526	1051	527	1170	526	557
85°	122	682	122	766	122	138
90°	39	569	33	629	39	24
95°	34	490	28	541	34	27
105°	28	350	24	398	28	30
115°	23	231	21	269	23	23
125°	18	134	17	162	18	16
135°	14	59	12	77	14	11
145°	11	12	10	18	11	7
155°	9	9	9	13	9	4
165°	11	8	13	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°	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0
1°	3087.2	3087.2	3087.2	3085.8	3085.4	3084.2	3085.4	3085.6	3086.4	3086.6	3087.2
2°	3086.4	3085.4	3084.6	3082.6	3082.0	3080.8	3082.4	3083.4	3085.0	3085.0	3086.0
3°	3083.2	3081.8	3080.6	3078.4	3078.4	3077.2	3079.2	3079.8	3082.2	3082.4	3083.6
4°	3077.8	3076.8	3075.7	3073.1	3073.7	3072.1	3074.5	3074.9	3077.8	3078.4	3080.8
5°	3071.7	3070.5	3069.1	3067.1	3067.9	3065.7	3068.5	3068.3	3071.7	3073.1	3077.2
6°	3063.9	3062.5	3061.9	3060.1	3061.3	3058.5	3062.5	3060.9	3065.5	3067.1	3071.5
7°	3054.6	3053.4	3052.6	3052.4	3053.8	3051.0	3054.0	3052.4	3057.1	3059.3	3063.5
8°	3044.6	3043.0	3042.8	3043.6	3045.4	3042.8	3043.0	3042.8	3047.0	3050.4	3055.2
9°	3033.5	3031.1	3032.1	3032.9	3036.2	3032.7	3031.7	3031.5	3036.2	3040.4	3046.4
10°	3020.7	3018.5	3019.5	3021.9	3025.9	3020.9	3019.5	3018.9	3024.1	3028.9	3036.6
11°	3006.4	3005.2	3006.4	3009.6	3014.6	3008.0	3006.4	3004.6	3010.6	3016.5	3024.7
12°	2990.7	2990.1	2991.7	2996.6	3002.2	2994.9	2992.5	2989.7	2996.0	3002.6	3012.6
13°	2974.0	2974.2	2976.5	2983.1	2988.1	2980.7	2977.3	2973.0	2979.7	2986.9	2998.8
14°	2956.8	2956.4	2959.8	2968.6	2973.6	2965.2	2961.0	2954.3	2961.6	2970.4	2984.3
15°	2937.7	2937.9	2942.1	2952.7	2959.0	2950.1	2944.7	2934.7	2941.9	2952.5	2968.8
16°	2918.2	2918.4	2924.2	2936.7	2943.3	2934.0	2927.0	2914.6	2921.6	2932.4	2951.7
17°	2898.1	2899.1	2905.1	2918.8	2926.8	2916.0	2907.5	2893.2	2901.3	2912.9	2934.5
18°	2875.6	2877.6	2885.4	2899.7	2908.3	2896.1	2886.8	2870.9	2879.6	2891.6	2914.4
19°	2852.0	2854.1	2864.9	2880.4	2888.4	2876.0	2866.1	2847.4	2856.3	2869.3	2894.7
20°	2827.3	2829.9	2842.6	2859.9	2868.3	2856.1	2844.2	2823.9	2831.9	2846.2	2874.0
21°	2801.2	2804.2	2819.1	2840.0	2847.2	2834.6	2821.5	2799.4	2806.4	2821.5	2852.4
22°	2774.1	2777.9	2795.2	2818.7	2826.3	2812.7	2797.2	2774.3	2779.9	2796.6	2829.7
23°	2745.9	2749.7	2769.6	2794.4	2804.2	2789.7	2772.9	2747.3	2752.2	2770.0	2806.4
24°	2717.0	2722.2	2742.9	2770.6	2781.3	2765.6	2747.5	2720.0	2722.8	2742.9	2782.5
25°	2687.6	2693.9	2716.2	2745.5	2757.2	2741.5	2721.2	2692.7	2694.1	2714.4	2757.4
26°	2656.9	2663.7	2687.6	2721.8	2733.5	2717.2	2694.5	2663.5	2662.5	2686.6	2731.7
27°	2624.1	2633.2	2659.1	2695.7	2708.1	2691.1	2667.1	2633.4	2631.0	2657.1	2705.7
28°	2591.8	2601.4	2629.5	2669.5	2682.6	2664.5	2639.0	2601.4	2598.0	2626.1	2678.0
29°	2557.2	2569.1	2600.0	2641.8	2656.7	2637.6	2610.1	2569.5	2564.8	2594.8	2650.1
30°	2522.8	2536.1	2568.9	2614.3	2630.0	2610.3	2578.9	2536.3	2530.3	2562.6	2620.5
31°	2488.3	2502.7	2537.9	2585.3	2603.0	2581.9	2547.5	2501.9	2496.3	2529.9	2591.4
32°	2451.3	2467.4	2506.7	2556.4	2574.7	2553.2	2516.0	2467.6	2460.1	2497.1	2560.8
33°	2414.9	2431.8	2473.6	2527.6	2545.5	2524.0	2482.8	2431.6	2422.5	2462.5	2529.5
34°	2377.5	2396.2	2441.4	2497.1	2516.8	2493.7	2449.7	2394.8	2385.5	2427.8	2498.9
35°	2339.1	2358.4	2408.9	2466.1	2487.9	2462.9	2416.1	2358.4	2345.8	2392.4	2466.5
36°	2300.9	2321.2	2374.5	2435.0	2459.3	2431.6	2381.5	2320.4	2306.6	2356.4	2433.4
37°	2261.9	2284.2	2339.7	2405.0	2429.6	2400.8	2345.8	2280.8	2266.6	2319.2	2400.2
38°	2221.9	2245.7	2303.9	2372.3	2400.6	2369.1	2311.0	2241.4	2226.2	2282.0	2366.5
39°	2182.1	2206.1	2268.4	2341.3	2370.1	2337.1	2274.2	2201.6	2185.4	2243.8	2332.1
40°	2143.0	2167.1	2230.2	2309.0	2338.7	2305.2	2237.6	2161.6	2143.8	2204.9	2297.9
41°	2102.4	2127.9	2194.4	2277.0	2307.2	2273.0	2200.4	2121.0	2102.2	2165.5	2262.3
42°	2060.1	2087.9	2156.4	2243.4	2275.6	2239.4	2162.2	2080.8	2060.1	2126.1	2226.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1931.8	1964.1	2044.7	2141.7	2177.3	2136.5	2044.7	1954.4	1932.3	2005.2	2116.8
46°	1888.6	1922.3	2006.9	2107.8	2144.0	2103.4	2004.9	1911.6	1889.1	1963.4	2080.4
47°	1844.4	1879.9	1968.6	2073.0	2110.0	2067.0	1965.1	1869.2	1845.0	1922.2	2043.3
48°	1799.7	1836.9	1930.5	2037.4	2076.0	2032.2	1925.7	1826.2	1801.2	1880.2	2005.8
49°	1754.7	1793.1	1892.5	2001.6	2041.3	1995.8	1884.5	1782.1	1756.0	1837.9	1968.0
50°	1709.6	1750.0	1853.4	1965.1	2005.9	1959.1	1844.6	1738.3	1711.1	1794.6	1930.0
51°	1664.0	1705.9	1813.5	1929.6	1972.0	1923.1	1804.0	1693.9	1666.8	1752.3	1892.6
52°	1618.4	1661.7	1774.1	1893.4	1935.2	1886.8	1763.9	1649.8	1620.8	1707.8	1853.0
53°	1573.3	1617.5	1734.9	1858.1	1900.4	1849.5	1723.0	1605.2	1575.0	1665.7	1814.1
54°	1526.3	1573.0	1694.8	1821.0	1864.3	1811.3	1682.8	1560.4	1529.0	1621.5	1775.1
55°	1480.8	1528.3	1654.5	1782.2	1827.7	1773.8	1641.9	1515.4	1482.6	1577.3	1736.5
56°	1434.4	1484.1	1614.5	1744.9	1791.0	1735.1	1599.8	1470.4	1436.6	1532.9	1696.3
57°	1388.2	1439.3	1572.8	1706.4	1754.2	1697.0	1559.3	1424.5	1389.7	1488.7	1656.6
58°	1341.1	1393.9	1532.5	1667.6	1716.8	1658.8	1517.3	1378.8	1342.8	1444.9	1616.5
59°	1293.8	1348.6	1491.5	1628.0	1680.2	1619.2	1476.8	1333.3	1295.6	1400.7	1576.5
60°	1247.0	1304.0	1451.3	1588.8	1641.9	1580.0	1434.9	1287.8	1248.6	1357.0	1537.2
61°	1198.9	1260.0	1410.4	1549.5	1604.3	1541.2	1393.3	1241.7	1200.5	1311.5	1497.5
62°	1151.5	1215.6	1369.6	1510.2	1565.3	1500.9	1351.5	1195.9	1152.6	1267.6	1456.2
63°	1102.4	1170.6	1328.9	1471.5	1527.1	1461.4	1310.5	1150.4	1104.0	1224.2	1416.7
64°	1055.0	1125.2	1287.9	1432.8	1488.4	1421.3	1269.4	1105.2	1056.5	1179.1	1376.7
65°	1006.0	1080.6	1247.1	1393.8	1448.8	1381.5	1227.6	1060.2	1008.1	1134.4	1336.9
66°	957.2	1035.1	1206.2	1355.1	1410.3	1341.0	1185.2	1014.5	959.1	1090.1	1296.3
67°	908.8	990.2	1163.9	1315.6	1370.4	1300.6	1143.4	970.5	911.5	1046.8	1256.2
68°	860.6	946.0	1122.3	1275.1	1330.6	1261.2	1101.6	925.4	863.2	1002.0	1215.6
69°	812.2	901.8	1081.3	1234.6	1290.3	1220.2	1059.5	880.5	814.0	957.4	1174.7
70°	764.4	858.0	1040.1	1194.6	1250.4	1180.2	1017.6	836.5	766.5	913.1	1134.2
71°	715.5	813.5	999.1	1152.9	1210.3	1139.6	976.0	792.3	717.6	870.0	1093.9
72°	668.8	770.4	959.5	1110.6	1170.6	1100.0	935.0	748.8	669.7	827.0	1053.7
73°	621.1	727.7	919.1	1069.5	1129.8	1060.0	893.3	705.2	621.6	783.5	1012.9
74°	572.9	685.4	879.2	1027.8	1090.9	1020.6	853.8	662.2	573.9	741.2	972.5
75°	525.6	644.0	838.6	987.6	1050.7	980.3	813.1	619.7	527.0	698.9	931.9
76°	479.4	602.7	798.6	948.2	1011.4	940.8	774.1	577.6	480.1	657.1	891.0
77°	434.2	561.8	758.6	908.5	971.8	902.1	735.2	537.3	434.7	616.9	851.7
78°	389.4	522.9	718.7	870.8	932.2	862.7	695.8	498.0	390.0	577.7	811.6
79°	345.8	482.0	679.0	831.4	892.6	824.6	658.3	459.7	346.0	537.6	772.9
80°	303.5	444.6	640.8	794.4	855.7	787.2	621.0	421.6	303.8	499.4	735.7
81°	263.4	408.9	604.2	757.6	817.2	750.1	583.9	384.7	264.8	461.5	697.4
82°	224.1	374.1	568.3	719.9	782.5	715.3	549.2	349.2	225.0	424.1	660.2
83°	185.9	341.0	534.3	685.6	746.8	680.1	514.9	315.0	187.8	389.2	625.1
84°	152.6	309.1	502.4	652.2	714.1	648.7	483.3	283.5	153.5	354.6	591.6
85°	122.4	279.3	474.5	621.5	682.2	617.4	453.6	254.0	121.7	322.6	559.0
86°	95.6	253.1	447.4	592.6	653.7	588.7	425.7	227.3	94.0	292.7	527.0
87°	73.6	230.1	422.7	567.4	626.4	561.7	401.2	204.4	71.6	266.2	497.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	39.2	181.3	369.0	509.0	569.4	506.6	349.2	155.8	33.1	207.6	430.6
91°	37.3	171.4	355.9	493.3	552.4	490.0	335.0	146.4	30.8	195.2	413.8
92°	36.1	162.4	343.8	478.6	536.5	476.0	323.2	137.7	29.6	184.4	398.9
93°	35.2	153.3	331.2	465.1	521.4	461.0	311.8	129.3	28.8	173.8	384.5
94°	34.2	145.1	319.2	450.7	504.8	446.4	300.0	121.5	28.0	164.2	370.5
95°	33.6	136.6	307.4	437.5	490.4	432.6	288.4	113.7	27.6	154.4	356.1
96°	32.8	128.5	295.5	423.9	474.9	417.7	277.0	106.5	26.4	145.5	342.5
97°	32.0	121.0	284.0	410.2	461.1	404.5	267.1	99.5	26.0	136.5	329.2
98°	31.2	114.3	272.7	397.4	445.4	391.2	256.4	93.4	25.8	128.1	316.6
99°	30.6	107.5	262.4	384.7	431.3	378.3	245.9	87.1	25.6	120.3	303.8
100°	30.2	101.1	251.6	371.6	416.8	365.3	234.8	81.3	25.4	112.8	291.7
101°	30.2	95.2	240.8	358.9	403.3	352.2	224.7	76.1	25.2	105.6	280.0
102°	29.6	89.4	231.0	346.2	388.7	338.8	215.1	70.9	25.0	99.0	268.6
103°	29.2	83.8	220.8	333.3	376.5	326.6	206.2	65.9	24.8	92.4	257.8
104°	28.4	78.8	211.0	321.2	361.9	313.8	197.1	61.3	24.6	86.4	246.3
105°	28.0	73.9	202.2	309.1	349.7	302.9	187.8	56.9	24.4	81.0	235.4
106°	27.4	69.0	192.8	296.9	336.2	291.2	178.5	52.8	24.0	75.2	224.9
107°	27.0	65.0	184.0	285.0	323.7	280.3	169.7	48.5	23.2	70.0	214.5
108°	26.2	60.5	175.2	273.3	311.2	269.5	160.7	44.5	23.0	64.8	204.2
109°	25.8	56.1	167.1	262.8	299.3	259.1	152.7	41.4	23.0	60.4	194.6
110°	25.2	52.0	158.9	251.8	286.9	247.5	144.3	37.4	22.6	56.0	185.1
111°	24.8	48.3	151.3	240.7	275.4	237.0	136.9	34.2	22.2	51.2	176.0
112°	24.4	44.4	143.0	230.5	264.2	225.7	129.5	30.9	22.0	47.1	167.0
113°	24.2	40.8	135.4	220.1	253.0	215.2	121.9	28.0	21.7	43.2	158.4
114°	23.8	37.6	128.3	209.7	242.3	204.7	114.8	25.3	21.4	38.8	149.9
115°	23.4	34.3	121.0	200.2	230.6	194.3	107.8	23.1	21.1	35.3	141.5
116°	22.7	31.4	113.9	190.1	220.9	184.1	101.2	21.8	20.9	31.6	133.5
117°	22.2	28.9	107.2	181.1	209.6	175.1	95.2	21.0	20.8	28.6	125.8
118°	22.0	26.6	100.8	171.8	200.0	166.6	88.2	19.6	19.9	25.6	117.7
119°	21.4	24.9	93.9	162.7	190.0	157.8	82.4	19.2	19.3	23.0	110.7
120°	21.1	24.3	87.6	154.2	180.3	149.3	76.0	18.7	19.4	20.4	103.5
121°	20.5	23.7	81.5	145.8	170.4	140.2	69.9	18.3	18.5	19.3	96.3
122°	20.1	23.1	75.6	137.3	162.2	132.2	64.5	17.9	18.5	19.1	89.6
123°	19.3	22.7	70.0	129.2	152.3	124.0	59.4	17.4	18.1	19.1	82.5
124°	18.5	22.3	64.9	121.4	143.9	116.0	53.8	17.0	17.3	19.3	76.3
125°	18.1	21.9	59.2	113.7	134.1	108.4	48.7	16.8	16.9	18.9	70.2
126°	17.3	21.3	53.8	106.1	126.4	100.4	43.8	16.4	16.3	17.5	64.1
127°	17.1	20.9	48.8	98.4	117.9	93.0	39.1	16.2	16.1	16.3	58.9
128°	16.7	20.3	43.9	91.3	110.0	85.9	34.4	15.8	15.5	16.1	53.0
129°	16.3	19.7	39.3	84.2	101.7	78.4	30.3	15.2	15.1	15.9	47.5
130°	15.9	19.1	34.6	77.1	94.7	72.1	26.1	15.2	14.9	15.5	42.0
131°	15.3	18.9	30.5	70.4	86.1	65.0	22.2	15.4	13.7	15.3	37.0
132°	14.9	18.5	26.6	64.4	79.8	59.5	18.9	14.6	13.1	15.1	32.1



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	13.9	17.1	17.6	47.0	59.3	42.0	13.6	12.7	11.9	13.7	19.1
136°	13.7	16.5	17.2	41.3	52.6	36.7	12.8	12.3	11.5	13.1	15.6
137°	13.1	16.3	16.6	36.2	46.6	31.4	12.4	12.1	10.7	12.5	13.8
138°	12.9	15.7	16.2	31.2	40.5	27.0	12.0	12.1	10.5	12.1	13.2
139°	12.5	14.9	15.6	26.7	34.8	22.3	11.8	11.7	10.1	12.1	12.4
140°	12.5	14.7	15.2	22.2	29.5	18.2	11.4	11.7	10.1	12.3	12.2
141°	11.9	14.3	14.8	18.3	24.7	14.8	11.0	10.9	10.1	11.9	12.4
142°	11.7	14.1	14.4	15.7	19.4	12.4	10.4	10.1	10.0	11.1	11.4
143°	11.7	13.5	14.2	15.1	15.4	12.0	10.0	10.1	9.9	10.9	10.6
144°	11.1	13.3	13.8	14.7	12.0	12.0	9.4	9.7	9.8	10.7	10.2
145°	11.1	12.7	13.2	14.4	11.6	11.2	9.4	9.3	9.8	10.4	9.4
146°	10.9	12.5	13.0	13.9	10.8	10.8	9.5	9.2	9.7	10.2	9.0
147°	10.9	11.9	12.8	13.8	10.4	10.4	9.5	9.1	9.6	10.2	9.2
148°	10.5	11.7	12.4	13.6	10.2	10.2	9.5	9.1	9.6	10.2	8.8
149°	10.1	11.5	12.2	13.0	10.0	9.8	9.6	9.0	9.5	10.1	9.0
150°	10.1	11.1	11.6	13.0	9.8	9.8	9.0	8.9	9.4	10.1	9.0
151°	9.9	10.7	11.5	12.5	9.6	9.2	9.2	8.9	9.3	10.1	8.9
152°	9.7	10.7	11.4	12.2	9.4	9.4	9.2	8.9	9.3	10.1	8.9
153°	9.5	10.5	11.3	12.0	9.2	9.2	9.2	8.9	9.3	10.1	8.9
154°	9.3	10.3	11.2	11.6	9.0	9.2	9.2	8.9	9.3	10.0	8.9
155°	9.1	10.3	11.2	11.8	8.8	8.8	9.2	8.9	9.3	10.0	8.9
156°	9.1	10.3	11.2	11.2	8.7	8.6	9.2	8.9	9.3	10.0	8.8
157°	9.1	10.3	11.2	11.2	8.5	8.6	9.2	8.9	9.3	10.0	8.8
158°	9.1	10.3	11.2	11.1	8.4	8.6	9.2	8.9	9.3	10.0	9.1
159°	9.1	10.3	11.2	11.0	8.4	8.6	9.2	8.9	9.3	10.0	9.5
160°	9.1	10.3	11.2	10.9	8.4	8.6	9.2	8.9	9.3	9.9	9.8
161°	9.3	10.3	11.2	10.8	8.4	8.6	9.2	9.1	9.9	10.3	10.1
162°	9.5	10.3	11.2	10.7	8.4	8.6	9.2	10.1	11.1	10.9	10.4
163°	10.1	10.3	11.2	10.6	8.4	8.6	9.4	10.5	11.7	11.1	11.2
164°	10.5	10.3	11.2	10.4	8.4	8.6	9.4	10.9	12.1	11.7	11.6
165°	10.7	10.3	11.2	10.4	8.4	8.6	9.6	11.1	12.7	11.9	12.0
166°	11.7	10.5	11.2	10.3	8.4	8.6	9.7	11.2	12.9	12.5	12.0
167°	11.9	10.9	11.2	10.2	8.4	8.6	9.7	11.4	13.5	12.5	12.6
168°	12.0	11.7	11.2	10.1	8.4	8.6	9.8	11.6	14.1	12.5	13.2
169°	12.2	12.3	11.2	10.0	8.4	8.6	9.8	11.7	14.7	12.5	13.4
170°	12.3	12.1	11.2	9.9	8.4	8.6	9.9	11.9	15.3	12.5	13.4
171°	12.3	12.7	11.2	9.8	8.4	8.6	9.9	11.9	15.7	12.5	13.4
172°	12.3	12.7	11.2	9.8	8.4	8.6	10.0	12.0	16.1	12.5	13.5
173°	12.4	12.9	11.2	9.8	8.8	8.8	10.2	12.0	16.0	12.5	13.5
174°	12.4	13.0	11.2	9.7	8.6	9.0	10.6	12.1	15.9	12.5	13.5
175°	12.4	13.2	11.2	9.7	8.8	9.4	10.4	12.2	15.8	12.5	13.5
176°	12.5	13.4	11.4	9.7	9.4	9.4	10.4	12.2	15.8	12.5	13.6
177°	12.5	13.5	11.4	9.6	9.6	9.6	10.4	12.3	15.7	12.5	13.6



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0
1°	3086.8	3088.0	3088.4	3087.6	3086.8	3087.2
2°	3086.4	3087.8	3088.8	3087.8	3087.0	3086.4
3°	3085.2	3088.0	3089.0	3087.8	3084.2	3083.2
4°	3082.4	3085.4	3086.4	3085.2	3080.0	3077.8
5°	3078.8	3081.4	3082.4	3082.6	3074.3	3071.7
6°	3073.9	3075.9	3077.4	3078.4	3067.1	3063.9
7°	3068.5	3069.9	3071.3	3072.9	3058.9	3054.6
8°	3061.7	3063.3	3064.3	3065.9	3049.0	3044.6
9°	3053.6	3056.0	3056.9	3058.1	3038.2	3033.5
10°	3045.2	3047.6	3048.4	3048.6	3025.5	3020.7
11°	3036.0	3038.8	3039.4	3038.8	3011.8	3006.4
12°	3024.9	3028.7	3028.7	3027.3	2997.2	2990.7
13°	3013.6	3017.3	3017.3	3014.2	2981.3	2974.0
14°	3000.8	3005.0	3005.2	2999.6	2964.0	2956.8
15°	2987.3	2992.1	2992.7	2984.1	2946.3	2937.7
16°	2972.8	2977.7	2978.7	2967.0	2927.0	2918.2
17°	2957.4	2962.6	2963.8	2949.9	2907.5	2898.1
18°	2941.1	2946.5	2946.7	2931.0	2887.8	2875.6
19°	2924.2	2930.0	2929.4	2911.5	2865.3	2852.0
20°	2904.5	2911.7	2910.5	2891.6	2841.8	2827.3
21°	2884.6	2893.6	2891.0	2870.5	2817.1	2801.2
22°	2864.3	2874.8	2871.1	2848.4	2792.2	2774.1
23°	2843.8	2854.7	2849.8	2823.7	2765.2	2745.9
24°	2821.9	2835.0	2827.9	2799.4	2737.5	2717.0
25°	2798.4	2813.7	2804.6	2773.9	2709.3	2687.6
26°	2774.9	2791.3	2780.9	2746.1	2680.6	2656.9
27°	2750.5	2768.4	2755.4	2718.4	2650.3	2624.1
28°	2726.2	2743.9	2731.9	2690.7	2618.9	2591.8
29°	2700.9	2720.2	2706.3	2661.3	2587.3	2557.2
30°	2675.0	2695.1	2681.0	2631.6	2554.4	2522.8
31°	2648.6	2669.1	2654.1	2601.0	2520.2	2488.3
32°	2622.1	2642.6	2627.9	2569.5	2486.4	2451.3
33°	2594.2	2616.1	2600.2	2537.3	2451.3	2414.9
34°	2565.8	2588.7	2571.7	2505.5	2415.5	2377.5
35°	2536.9	2560.2	2542.7	2472.4	2379.1	2339.1
36°	2509.0	2534.1	2512.4	2438.8	2342.3	2300.9
37°	2478.6	2505.1	2482.4	2404.6	2305.0	2261.9
38°	2447.9	2477.0	2450.5	2369.1	2267.2	2221.9
39°	2418.3	2448.3	2421.7	2333.5	2228.4	2182.1
40°	2387.6	2418.7	2389.8	2298.1	2189.4	2143.0
41°	2356.8	2388.8	2358.2	2261.9	2149.8	2102.4
42°	2325.0	2357.6	2326.1	2224.2	2110.6	2060.1



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2228.2	2262.5	2226.0	2111.8	1989.0	1931.8
46°	2195.0	2229.6	2192.6	2072.6	1947.1	1888.6
47°	2161.2	2196.8	2157.6	2034.4	1904.4	1844.4
48°	2128.5	2163.3	2122.9	1995.8	1863.1	1799.7
49°	2094.7	2130.3	2089.1	1957.0	1820.2	1754.7
50°	2060.1	2098.5	2052.5	1917.8	1777.8	1709.6
51°	2024.6	2064.2	2017.5	1878.6	1733.9	1664.0
52°	1989.9	2031.8	1980.2	1839.2	1690.4	1618.4
53°	1954.0	1998.3	1945.2	1799.2	1647.3	1573.3
54°	1918.3	1963.7	1908.6	1759.4	1602.8	1526.3
55°	1882.6	1929.9	1870.5	1719.8	1559.9	1480.8
56°	1846.2	1895.3	1834.8	1679.7	1515.0	1434.4
57°	1809.3	1860.4	1796.4	1639.6	1471.4	1388.2
58°	1772.6	1823.4	1758.2	1599.8	1426.6	1341.1
59°	1734.4	1787.4	1719.9	1559.6	1381.9	1293.8
60°	1697.4	1751.7	1681.9	1518.7	1336.2	1247.0
61°	1659.3	1714.1	1643.7	1478.0	1291.4	1198.9
62°	1620.2	1677.7	1604.9	1438.2	1246.7	1151.5
63°	1582.3	1639.7	1566.2	1397.0	1201.3	1102.4
64°	1543.5	1602.3	1527.4	1355.6	1156.4	1055.0
65°	1504.7	1564.3	1488.6	1314.9	1111.7	1006.0
66°	1466.1	1525.9	1449.9	1274.1	1067.3	957.2
67°	1426.6	1488.1	1410.2	1232.5	1022.1	908.8
68°	1386.8	1448.8	1370.5	1190.8	976.9	860.6
69°	1346.8	1410.2	1330.7	1149.6	932.5	812.2
70°	1306.6	1370.8	1291.9	1108.0	888.4	764.4
71°	1266.4	1331.2	1252.5	1066.7	843.9	715.5
72°	1226.8	1293.0	1212.5	1025.7	800.5	668.8
73°	1186.9	1252.9	1172.3	984.1	756.7	621.1
74°	1147.4	1213.0	1132.2	943.4	713.1	572.9
75°	1107.8	1170.4	1093.0	901.9	670.4	525.6
76°	1069.2	1126.5	1053.5	861.8	628.2	479.4
77°	1030.4	1084.4	1014.0	821.1	586.1	434.2
78°	990.6	1040.2	974.5	781.3	545.6	389.4
79°	951.9	998.0	934.7	742.1	505.5	345.8
80°	912.4	957.1	895.8	704.5	466.2	303.5
81°	875.0	915.6	857.3	667.7	427.5	263.4
82°	837.9	875.9	818.5	631.9	391.2	224.1
83°	801.1	837.8	782.2	596.7	355.8	185.9
84°	766.7	801.4	745.5	563.0	322.7	152.6
85°	732.6	766.5	711.3	530.8	292.4	122.4
86°	700.6	734.5	679.3	500.5	264.7	95.6
87°	669.8	702.9	649.0	472.9	238.5	73.6



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	597.0	628.6	575.6	405.1	180.3	39.2
91°	577.3	608.4	555.4	388.4	169.3	37.3
92°	560.4	590.2	537.9	373.8	159.8	36.1
93°	543.6	573.5	522.0	360.1	150.6	35.2
94°	527.5	557.5	505.2	345.7	141.4	34.2
95°	511.1	541.0	488.9	332.1	133.0	33.6
96°	494.0	525.5	474.0	320.2	124.8	32.8
97°	478.1	510.5	458.9	308.6	116.7	32.0
98°	462.4	494.8	444.7	296.7	109.7	31.2
99°	446.5	480.1	430.6	284.7	102.6	30.6
100°	431.4	466.2	415.5	272.3	95.9	30.2
101°	416.6	451.7	400.6	261.5	90.0	30.2
102°	401.4	438.0	386.4	250.9	84.3	29.6
103°	387.5	424.5	372.3	240.0	78.8	29.2
104°	372.4	411.2	359.0	229.0	74.0	28.4
105°	358.8	397.9	347.0	218.4	68.6	28.0
106°	344.7	385.6	335.3	208.4	64.4	27.4
107°	331.1	372.1	323.2	198.4	59.9	27.0
108°	317.9	358.4	310.5	189.3	55.8	26.2
109°	305.2	344.9	297.4	179.8	51.8	25.8
110°	292.7	331.3	285.6	170.7	47.7	25.2
111°	280.9	318.1	273.2	162.1	44.2	24.8
112°	269.1	305.4	261.7	154.0	40.7	24.4
113°	257.6	293.0	250.4	145.4	37.6	24.2
114°	246.3	280.5	239.3	137.5	34.5	23.8
115°	234.9	269.4	228.5	130.1	31.7	23.4
116°	223.9	257.4	217.8	122.4	29.1	22.7
117°	213.7	245.8	207.4	115.2	27.1	22.2
118°	202.9	234.2	197.0	108.2	26.1	22.0
119°	192.8	223.7	187.7	101.3	25.5	21.4
120°	182.7	212.6	177.5	94.8	24.9	21.1
121°	172.8	202.0	168.1	88.4	24.3	20.5
122°	164.1	191.9	159.0	82.2	23.9	20.1
123°	154.0	181.7	149.8	76.0	23.5	19.3
124°	145.4	171.7	141.0	70.1	23.5	18.5
125°	136.6	162.5	132.5	64.6	22.9	18.1
126°	127.8	153.1	124.2	59.0	22.3	17.3
127°	119.6	143.7	115.7	53.5	21.8	17.1
128°	111.1	134.8	107.7	48.4	21.4	16.7
129°	103.0	126.0	99.8	43.5	20.6	16.3
130°	95.1	117.3	91.7	38.8	20.4	15.9
131°	87.5	108.7	84.6	34.3	19.6	15.3
132°	80.1	100.6	77.3	30.0	19.2	14.9



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTL-D-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	59.6	77.3	57.7	19.6	17.6	13.9
136°	52.9	70.0	51.5	19.0	17.4	13.7
137°	46.8	63.3	45.8	18.2	16.8	13.1
138°	40.8	57.1	40.1	17.8	16.4	12.9
139°	34.6	50.3	34.7	17.2	15.8	12.5
140°	29.2	44.0	29.6	16.8	15.2	12.5
141°	24.4	38.3	24.9	16.6	14.8	11.9
142°	19.0	32.7	20.7	16.0	14.4	11.7
143°	15.0	27.2	17.2	15.4	14.1	11.7
144°	12.4	22.4	16.5	15.0	13.5	11.1
145°	12.4	18.3	16.1	14.4	13.1	11.1
146°	12.2	16.1	15.9	14.0	12.7	10.9
147°	12.4	15.7	15.3	13.8	12.5	10.9
148°	11.4	15.5	15.0	13.2	12.3	10.5
149°	11.0	15.1	14.8	12.8	12.1	10.1
150°	10.4	14.5	14.4	12.4	11.7	10.1
151°	10.2	14.3	14.0	12.2	11.5	9.9
152°	9.4	14.1	13.8	12.2	11.3	9.7
153°	9.2	13.3	13.2	11.8	10.9	9.5
154°	9.2	13.1	13.0	11.8	11.1	9.3
155°	8.6	12.9	12.8	11.8	11.1	9.1
156°	8.7	12.7	12.6	11.8	11.1	9.1
157°	8.7	12.5	12.4	11.8	11.1	9.1
158°	8.8	12.3	12.2	11.8	11.1	9.1
159°	8.9	12.2	12.0	11.8	11.1	9.1
160°	8.9	11.9	12.0	11.8	11.1	9.1
161°	9.0	11.6	12.0	11.8	11.1	9.3
162°	9.0	11.4	11.6	11.8	11.1	9.5
163°	9.6	11.4	11.2	11.8	11.3	10.1
164°	9.8	11.1	11.4	11.8	11.7	10.5
165°	10.0	10.8	11.4	11.8	11.9	10.7
166°	10.2	11.0	11.4	11.9	11.9	11.7
167°	10.4	10.6	11.4	11.9	12.3	11.9
168°	10.8	10.6	11.3	12.0	12.5	12.0
169°	11.0	10.4	11.3	12.0	12.7	12.2
170°	10.8	10.4	11.3	12.0	13.1	12.3
171°	10.8	10.2	11.3	12.0	13.3	12.3
172°	11.0	10.2	11.2	12.1	13.7	12.3
173°	11.4	9.8	10.6	12.1	14.2	12.4
174°	11.8	9.6	10.6	12.1	14.4	12.4
175°	12.2	9.6	10.4	12.2	14.8	12.4
176°	12.0	9.6	10.4	12.2	15.4	12.5
177°	12.0	9.6	10.4	12.2	15.4	12.5



TEST NUMBER: P861213

CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	12.5	12.5	12.5	12.5	12.5	12.5



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







43°	2018.3	2047.7	2119.4	2209.9	2242.6	2205.3	2123.5	2038.8	2017.3	2086.1	2190.2
44°	1975.2	2005.9	2081.9	2176.3	2210.5	2171.1	2084.5	1996.8	1975.4	2045.9	2153.4



88°	55.2	209.8	401.9	545.2	605.1	541.2	381.1	184.9	53.6	243.9	471.3
89°	44.3	192.7	382.9	524.8	585.2	521.6	363.1	167.9	40.4	224.4	449.2



133°	14.3	17.7	22.9	58.2	72.2	53.4	15.6	13.7	12.7	14.3	27.7
134°	14.1	17.3	19.4	52.4	65.5	47.3	14.0	13.1	12.1	14.1	23.3



178°	12.5	13.5	11.8	9.6	9.6	9.6	10.4	12.5	15.5	12.5	13.6
179°	12.5	13.5	12.2	9.6	9.6	9.6	10.4	12.1	15.5	12.5	13.6





43°	2293.3	2327.1	2293.5	2187.4	2071.4	2018.3
44°	2260.7	2294.5	2260.3	2149.4	2030.4	1975.2



88°	643.1	675.9	621.8	447.7	216.1	55.2
89°	617.1	651.2	596.8	425.2	196.3	44.3



133°	73.0	92.7	70.4	26.2	18.6	14.3
134°	66.1	84.9	64.0	22.5	18.2	14.1



178°	12.0	9.6	10.4	12.2	15.4	12.5
179°	12.0	9.6	10.4	12.2	15.4	12.5



(END OF REPORT)