

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: P861202

Luminaire Tested: **8APVTLD-SL3C3 HI POWER 3500K 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: P861202  
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 HI POWER 3500K 277V  
Description: HI POWER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

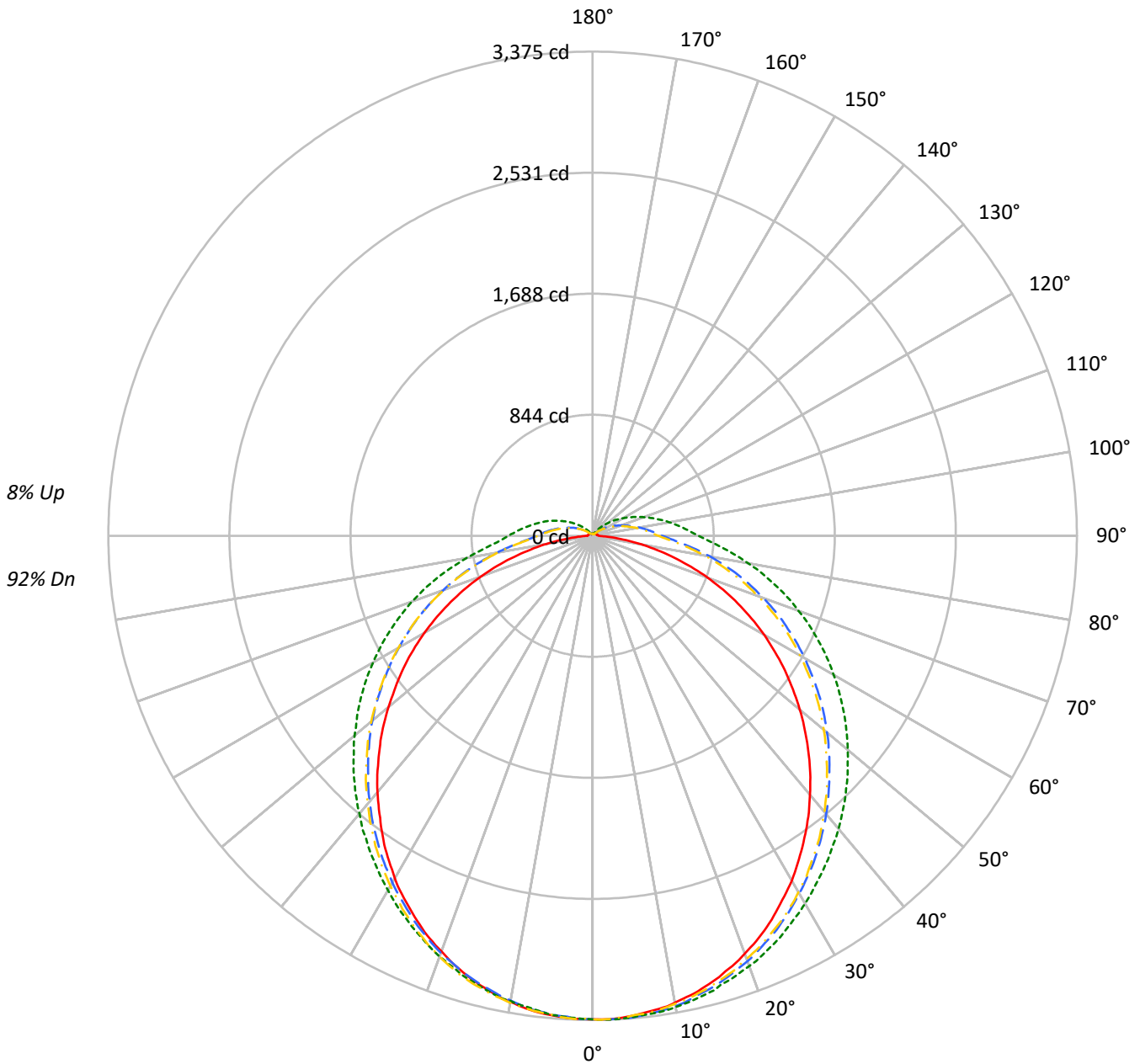
Lumens per Lamp: N/A  
Luminaire Lumens: 11479.6 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 91.9  
Input Voltage (V): 277  
Input Current (Ain): 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	92
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	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	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	30	30	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	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°	13607	13607	13607	13607
5°	13581	13344	13576	13287
10°	13519	13094	13498	12929
15°	13419	12842	13368	12614
20°	13264	12565	13191	12287
25°	13085	12320	12997	11948
30°	12864	12059	12773	11621
35°	12585	11814	12477	11317
40°	12311	11613	12188	11015
45°	12014	11405	11853	10755
50°	11693	11232	11519	10479
55°	11339	11077	11164	10225
60°	10939	10926	10733	9951
65°	10432	10808	10183	9661
70°	9770	10673	9499	9372
75°	8827	10602	8486	8989
80°	7517	10591	7111	8560
85°	5922	10792	5355	8409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.8	2.8
10°-20°	911.5	7.9
20°-30°	1379.0	12.0
30°-40°	1666.4	14.5
40°-50°	1754.0	15.3
50°-60°	1647.8	14.4
60°-70°	1374.5	12.0
70°-80°	981.3	8.5
80°-90°	578.3	5.0
90°-100°	361.7	3.2
100°-110°	238.5	2.1
110°-120°	141.7	1.2
120°-130°	73.4	0.6
130°-140°	29.8	0.3
140°-150°	10.9	0.1
150°-160°	6.4	0.1
160°-170°	4.0	0.0
170°-180°	1.5	0.0
0°-30°	2609.4	22.7
0°-40°	4275.8	37.2
0°-60°	7677.7	66.9
0°-90°	10611.7	92.4
90°-120°	741.9	6.5
90°-150°	856.0	7.5
90°-180°	868.0	7.6
0°-180°	11479.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3371	3371	3371	3371	3371	
5°	3355	3365	3354	3351	3355	319
15°	3220	3279	3208	3221	3220	908
25°	2952	3089	2932	2995	2952	1359
35°	2573	2817	2550	2699	2573	1610
45°	2126	2498	2098	2355	2126	1640
55°	1635	2136	1610	1972	1635	1461
65°	1117	1738	1090	1554	1117	1104
75°	588	1314	565	1114	588	623
85°	143	899	129	700	143	159
90°	43	738	39	586	43	27
95°	37	633	34	504	37	30
105°	31	458	30	368	31	33
115°	26	308	26	245	26	26
125°	21	188	21	143	21	19
135°	17	93	14	63	17	13
145°	14	24	12	18	14	9
155°	13	13	12	14	13	6
165°	14	13	15	13	14	4
175°	16	13	19	12	16	2
180°	16	16	16	16	16	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0
1°	3372.2	3370.2	3375.2	3371.8	3373.4	3368.0	3374.0	3368.0	3369.8	3372.2	3368.8
2°	3372.2	3370.0	3372.4	3372.0	3375.2	3369.2	3371.6	3366.6	3368.6	3372.8	3371.4
3°	3368.8	3369.6	3371.4	3373.2	3373.0	3367.6	3364.4	3366.6	3365.8	3369.6	3356.8
4°	3362.2	3363.0	3370.8	3366.0	3370.6	3360.0	3364.6	3362.8	3360.0	3360.8	3354.6
5°	3354.8	3360.4	3368.0	3366.8	3365.2	3360.4	3352.8	3359.0	3353.6	3348.6	3348.2
6°	3345.2	3351.8	3361.0	3362.0	3359.4	3353.8	3351.6	3350.8	3347.4	3339.2	3339.0
7°	3337.6	3343.0	3353.6	3349.2	3356.4	3343.6	3344.4	3341.4	3338.8	3331.2	3331.2
8°	3329.4	3337.0	3346.8	3347.4	3352.6	3340.0	3335.4	3326.0	3328.8	3321.0	3321.6
9°	3321.2	3324.4	3338.6	3342.0	3347.0	3332.4	3326.4	3316.6	3313.4	3310.6	3305.4
10°	3304.4	3311.8	3329.6	3331.6	3335.4	3317.6	3313.0	3303.4	3299.2	3295.6	3289.2
11°	3288.2	3297.8	3317.6	3321.4	3326.0	3307.8	3302.8	3291.2	3288.2	3278.2	3275.8
12°	3275.4	3283.0	3301.2	3310.8	3315.0	3297.2	3289.8	3274.0	3268.6	3260.4	3258.8
13°	3259.4	3266.2	3282.4	3299.8	3302.4	3283.6	3272.0	3256.6	3246.8	3243.0	3240.0
14°	3239.0	3251.8	3270.0	3284.2	3290.8	3272.0	3259.8	3240.0	3229.4	3217.8	3225.0
15°	3220.2	3234.6	3254.2	3269.0	3279.0	3258.6	3240.8	3221.6	3207.8	3196.8	3204.8
16°	3200.2	3215.6	3236.4	3255.4	3253.6	3245.2	3222.2	3195.0	3187.0	3173.0	3185.4
17°	3173.4	3190.4	3216.8	3235.2	3243.2	3223.8	3205.0	3176.0	3162.6	3152.0	3163.2
18°	3153.2	3167.6	3196.0	3222.2	3225.8	3208.2	3187.8	3152.2	3139.0	3128.8	3137.2
19°	3128.2	3145.8	3174.2	3203.6	3207.4	3191.2	3159.2	3122.4	3110.2	3105.0	3116.6
20°	3099.6	3119.8	3156.2	3185.6	3191.2	3173.2	3138.6	3099.2	3082.4	3073.2	3094.2
21°	3071.8	3099.8	3133.8	3161.4	3176.4	3148.8	3116.0	3077.8	3057.2	3045.8	3068.2
22°	3046.8	3072.2	3107.0	3139.4	3153.6	3125.6	3095.0	3048.6	3027.8	3016.4	3040.0
23°	3016.2	3041.8	3080.6	3122.2	3131.0	3112.2	3069.2	3021.4	2999.8	2988.4	3010.8
24°	2985.0	3010.0	3057.4	3097.8	3111.8	3086.4	3041.8	2993.8	2965.2	2957.8	2984.0
25°	2952.2	2979.4	3031.4	3073.4	3088.6	3064.6	3017.0	2959.4	2932.4	2930.8	2954.2
26°	2917.3	2947.6	3001.2	3051.6	3062.4	3035.2	2991.0	2932.4	2898.5	2896.3	2920.7
27°	2880.1	2918.3	2975.4	3023.2	3037.0	3011.2	2962.4	2898.5	2865.1	2863.1	2888.5
28°	2845.7	2885.9	2943.4	2998.4	3011.2	2985.0	2930.2	2864.1	2830.5	2827.3	2855.5
29°	2811.5	2853.1	2912.7	2965.8	2988.0	2958.6	2902.9	2827.1	2796.1	2792.7	2826.3
30°	2776.5	2816.9	2880.1	2940.0	2960.6	2929.3	2868.9	2786.3	2756.9	2753.9	2791.7
31°	2736.3	2780.9	2848.3	2911.5	2934.4	2901.5	2836.5	2755.5	2715.5	2720.5	2753.9
32°	2694.9	2744.5	2815.3	2885.3	2903.9	2868.3	2807.7	2720.1	2676.1	2679.3	2721.3
33°	2654.9	2705.9	2783.3	2855.7	2874.7	2839.1	2767.5	2679.9	2636.9	2642.7	2685.7
34°	2615.5	2668.3	2750.7	2825.3	2846.5	2811.7	2732.1	2640.3	2597.5	2601.1	2649.3
35°	2572.7	2630.1	2715.1	2792.7	2817.1	2780.5	2698.7	2602.3	2550.5	2556.9	2611.9
36°	2532.1	2587.9	2680.1	2760.9	2790.5	2746.3	2663.1	2563.1	2507.5	2517.9	2572.9
37°	2488.9	2548.9	2643.9	2729.7	2757.5	2714.9	2628.7	2522.7	2461.3	2476.3	2535.7
38°	2447.3	2510.3	2606.5	2695.7	2726.9	2681.3	2588.1	2477.7	2419.3	2437.1	2498.9
39°	2400.9	2469.9	2571.1	2664.1	2697.9	2648.9	2550.5	2437.5	2375.7	2393.3	2457.9
40°	2356.9	2428.7	2532.1	2630.3	2666.3	2614.3	2513.9	2396.7	2333.3	2350.1	2417.9
41°	2311.7	2387.1	2493.9	2597.1	2633.7	2582.1	2472.1	2355.5	2288.7	2307.3	2378.3
42°	2268.3	2339.3	2454.9	2562.9	2599.1	2546.5	2434.5	2309.1	2242.3	2263.1	2337.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	2126.5	2209.9	2333.3	2458.3	2497.5	2438.7	2310.3	2173.1	2098.1	2128.5	2212.7
46°	2079.1	2164.1	2294.5	2422.7	2464.7	2405.5	2268.1	2129.3	2055.1	2082.5	2171.7
47°	2029.5	2119.1	2254.7	2387.3	2430.7	2370.1	2225.3	2079.9	2006.7	2034.1	2128.7
48°	1983.5	2074.1	2212.9	2350.9	2391.5	2330.7	2187.1	2034.5	1957.6	1985.5	2089.3
49°	1934.9	2025.3	2175.5	2312.3	2356.5	2291.9	2145.7	1991.0	1907.3	1938.8	2044.9
50°	1885.2	1981.4	2132.1	2275.9	2321.5	2255.5	2103.1	1940.7	1857.1	1893.0	2004.7
51°	1835.7	1934.6	2090.7	2239.3	2284.5	2215.5	2060.3	1894.5	1805.7	1846.2	1961.0
52°	1785.0	1886.1	2050.5	2202.5	2247.7	2178.1	2017.1	1846.7	1753.7	1796.4	1916.9
53°	1734.7	1838.4	2008.7	2167.1	2211.7	2138.5	1975.9	1799.5	1707.6	1749.4	1873.0
54°	1684.5	1789.3	1966.6	2123.5	2173.1	2102.1	1933.6	1753.6	1658.4	1700.9	1825.4
55°	1635.2	1740.9	1923.4	2086.5	2136.1	2060.7	1888.2	1702.6	1610.0	1651.9	1785.3
56°	1584.4	1692.6	1879.7	2046.9	2097.5	2020.1	1843.5	1653.5	1559.2	1600.0	1738.8
57°	1533.3	1646.9	1837.2	2006.9	2058.3	1980.5	1800.6	1605.4	1507.3	1549.9	1694.6
58°	1481.5	1598.6	1791.4	1963.9	2019.7	1941.3	1754.1	1556.5	1457.7	1500.8	1651.0
59°	1430.2	1551.1	1748.1	1922.6	1980.6	1900.8	1714.6	1508.7	1404.0	1453.0	1604.1
60°	1379.5	1502.9	1705.3	1881.2	1939.4	1859.0	1668.8	1458.6	1353.5	1406.3	1557.3
61°	1327.7	1452.8	1662.6	1840.8	1900.4	1815.9	1627.1	1410.4	1301.8	1357.2	1515.3
62°	1274.6	1405.6	1618.8	1801.2	1861.3	1773.5	1581.8	1362.0	1248.5	1310.3	1469.1
63°	1222.1	1355.9	1574.5	1757.7	1821.7	1731.8	1537.0	1312.5	1196.1	1259.6	1425.3
64°	1168.7	1307.6	1529.9	1717.5	1780.2	1690.9	1494.6	1265.5	1143.1	1208.7	1380.3
65°	1116.6	1257.6	1486.2	1674.1	1738.2	1645.1	1448.4	1216.3	1090.0	1161.1	1333.3
66°	1063.0	1210.7	1445.8	1633.1	1697.8	1606.0	1405.1	1167.2	1034.7	1113.0	1289.1
67°	1010.6	1162.5	1398.9	1592.2	1656.3	1564.6	1359.9	1119.4	983.8	1064.3	1244.8
68°	957.9	1112.7	1355.0	1545.1	1615.7	1520.9	1314.7	1072.0	931.4	1012.6	1198.0
69°	905.3	1064.7	1310.8	1506.3	1571.9	1478.7	1270.1	1020.7	879.3	966.7	1152.0
70°	851.5	1017.4	1264.1	1459.3	1525.5	1436.6	1226.4	974.6	827.9	918.8	1108.8
71°	798.4	967.4	1221.2	1415.6	1486.9	1394.0	1180.3	926.0	772.5	870.0	1062.7
72°	745.8	921.5	1176.7	1372.2	1444.3	1350.5	1136.2	879.5	720.9	823.1	1019.4
73°	692.7	872.4	1134.3	1326.0	1401.2	1306.9	1093.7	831.5	668.7	774.7	974.5
74°	639.3	827.4	1089.9	1283.9	1356.9	1264.3	1047.0	785.7	617.1	728.5	931.6
75°	588.0	780.9	1047.0	1237.6	1314.1	1221.7	1003.8	738.8	565.3	683.6	885.8
76°	537.4	735.5	1003.1	1195.6	1269.5	1177.9	958.7	691.5	515.6	637.3	841.9
77°	486.4	691.1	956.3	1152.2	1228.9	1137.2	918.3	647.3	465.7	594.0	799.2
78°	437.2	646.5	915.1	1107.8	1187.3	1091.2	872.0	602.7	418.3	550.9	756.3
79°	390.0	604.0	873.4	1067.8	1143.3	1051.3	832.4	559.8	370.8	508.3	715.9
80°	342.5	561.7	829.7	1025.8	1101.6	1006.5	788.9	518.0	324.0	468.5	675.1
81°	298.9	522.0	786.4	984.3	1057.8	966.3	748.6	476.1	280.0	429.0	636.1
82°	256.5	481.1	746.9	943.9	1016.8	927.6	708.4	436.6	236.9	391.6	598.2
83°	215.7	441.7	706.6	901.8	975.4	888.7	671.2	399.4	197.8	356.7	563.1
84°	178.6	405.3	665.7	861.9	937.9	848.8	632.9	364.1	161.9	322.7	528.9
85°	143.1	370.1	630.5	822.6	898.9	812.7	598.3	329.6	129.4	292.1	498.2
86°	111.9	335.4	595.9	787.0	862.8	777.8	566.4	297.6	100.1	263.4	469.1
87°	85.8	304.4	563.2	750.7	826.7	743.2	532.8	268.3	75.1	237.4	443.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	43.1	237.1	485.1	661.9	737.9	657.5	458.5	205.8	39.2	191.7	393.4
91°	40.7	221.6	465.5	639.4	712.5	633.2	438.8	192.4	38.0	180.5	378.8
92°	39.7	209.8	448.2	619.7	691.6	615.2	422.6	182.2	36.6	170.4	365.7
93°	38.7	197.9	432.0	600.6	672.2	595.1	406.8	171.4	35.7	160.4	352.2
94°	37.8	186.8	416.2	583.3	651.7	577.8	393.7	161.6	35.0	150.7	338.3
95°	37.1	176.0	401.7	566.3	633.3	559.9	378.9	151.2	33.8	142.4	324.5
96°	36.1	166.4	386.9	549.1	614.0	543.4	366.2	142.1	33.3	133.7	311.9
97°	35.5	157.0	371.3	532.9	595.6	525.7	351.2	133.5	32.6	125.6	299.2
98°	34.7	147.8	356.5	516.5	577.6	508.5	337.9	124.9	31.9	117.9	288.7
99°	34.5	139.4	343.0	500.1	559.8	491.2	324.0	116.8	31.0	110.4	276.4
100°	34.1	131.3	329.4	484.4	542.1	474.4	311.9	110.1	30.7	103.0	265.2
101°	33.6	123.7	315.5	467.6	524.9	460.3	299.0	103.3	30.5	97.2	254.7
102°	32.9	116.8	303.5	451.4	507.2	444.0	284.9	96.5	30.0	90.6	243.6
103°	32.4	110.0	290.1	435.9	490.6	429.3	273.1	90.0	30.0	84.6	232.9
104°	31.9	103.5	278.3	419.9	473.1	414.5	260.8	84.0	30.0	79.6	223.3
105°	31.4	97.1	267.1	405.5	457.8	399.7	249.3	78.0	29.8	73.9	212.1
106°	31.0	91.2	255.3	390.4	441.4	384.0	237.4	72.6	29.5	68.6	203.0
107°	30.5	85.4	243.7	374.8	425.4	368.7	227.6	67.9	28.4	63.2	193.0
108°	30.2	79.7	233.7	360.3	409.5	353.6	215.5	62.9	28.3	58.9	183.4
109°	29.5	74.4	223.3	346.7	395.1	340.5	207.2	58.3	28.3	54.8	174.7
110°	28.9	69.0	212.4	332.7	379.2	325.9	196.1	53.9	27.9	50.3	165.4
111°	28.3	64.5	202.4	318.4	365.1	313.7	187.1	49.7	27.4	46.4	157.1
112°	28.1	59.8	192.3	305.4	349.9	300.8	176.6	45.4	27.0	42.2	149.4
113°	27.7	55.6	182.1	292.6	336.0	287.8	167.0	41.8	27.2	38.6	140.8
114°	27.0	51.4	173.3	279.7	322.7	274.8	158.7	37.7	26.3	35.6	133.1
115°	26.5	47.3	164.5	267.2	308.5	262.2	149.9	34.6	25.8	32.1	125.0
116°	26.2	43.3	155.2	255.7	295.7	249.4	141.7	31.5	25.3	29.2	117.2
117°	25.8	39.8	147.1	243.2	281.8	238.0	134.1	28.6	24.8	26.7	110.5
118°	25.3	36.8	138.5	232.2	269.9	227.1	125.4	26.4	24.4	24.6	102.4
119°	24.8	33.6	130.3	221.0	257.1	215.4	118.1	24.8	24.1	24.4	96.2
120°	24.4	30.7	122.7	209.5	244.9	204.5	110.0	24.5	23.9	23.4	89.1
121°	23.9	28.8	115.6	199.2	233.2	193.0	102.4	24.5	23.1	22.7	82.3
122°	23.4	27.9	107.9	188.9	222.4	183.7	95.8	23.3	22.5	22.2	76.2
123°	22.4	27.6	100.4	178.5	209.4	173.1	87.9	23.1	22.4	22.2	69.3
124°	21.7	27.4	93.2	168.4	199.2	162.6	81.9	22.4	21.8	21.7	63.6
125°	21.3	26.5	86.7	158.8	187.8	153.9	74.8	21.9	21.1	21.5	57.8
126°	20.8	26.0	79.8	149.4	177.6	143.8	68.8	21.9	20.5	20.8	52.4
127°	20.5	25.5	73.4	140.0	166.9	134.6	62.6	21.5	19.4	20.3	47.7
128°	20.1	24.8	67.1	131.1	157.5	126.3	56.5	20.9	18.7	19.8	41.8
129°	19.8	24.3	60.7	122.0	147.0	116.9	51.7	20.3	17.7	19.4	37.0
130°	19.2	24.1	55.3	113.6	137.8	108.9	46.2	19.5	17.2	18.9	32.4
131°	18.9	23.4	49.7	105.1	127.8	100.1	40.9	19.1	16.6	18.7	27.8
132°	18.4	22.9	44.4	97.1	119.7	92.3	36.0	19.0	16.1	18.2	24.1





TEST NUMBER: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	17.2	21.0	30.2	73.8	93.0	69.8	23.4	17.4	14.2	16.6	16.4
136°	16.8	21.0	26.1	66.5	84.3	62.7	19.7	17.2	14.0	16.3	16.0
137°	16.6	20.5	23.0	59.7	76.6	56.3	18.5	16.7	13.9	15.9	15.6
138°	16.3	20.1	21.8	53.8	68.5	50.2	17.6	16.4	13.3	15.8	14.8
139°	16.1	19.4	21.2	47.6	61.4	44.1	16.7	16.0	13.3	15.6	14.3
140°	15.6	19.2	20.7	41.6	54.7	38.3	16.4	15.9	13.2	14.7	13.6
141°	15.4	18.5	20.2	35.9	47.7	33.1	16.0	15.2	12.8	14.4	13.4
142°	15.3	18.4	20.0	30.7	41.1	27.8	15.7	14.7	12.1	14.0	13.2
143°	14.9	18.0	19.3	25.5	35.1	23.2	14.8	14.3	11.8	13.9	12.3
144°	14.6	17.5	19.0	21.7	29.0	19.4	14.6	13.8	11.8	13.8	11.7
145°	14.3	17.0	18.5	20.1	23.7	17.1	14.1	13.6	11.7	13.7	11.5
146°	14.0	16.6	18.1	19.5	18.9	16.5	13.9	13.3	11.7	13.6	11.3
147°	13.7	15.9	17.6	19.0	16.8	16.3	13.8	13.3	11.7	13.5	11.4
148°	13.5	15.8	17.4	19.0	16.5	16.5	13.7	13.1	11.7	13.4	11.4
149°	13.2	15.5	16.7	18.5	15.9	16.1	13.7	13.1	11.6	13.3	11.5
150°	13.2	15.3	16.4	18.3	15.6	15.9	13.6	13.2	11.6	13.2	11.6
151°	12.8	15.0	16.2	17.8	15.1	15.2	13.5	13.2	11.6	13.2	11.7
152°	12.8	14.8	16.2	17.4	14.5	14.9	13.5	13.2	11.6	13.2	11.7
153°	12.8	14.6	15.8	17.3	14.0	14.5	13.4	13.2	11.6	13.2	11.8
154°	12.8	14.5	15.8	17.1	13.7	14.4	13.4	13.3	11.5	13.2	11.9
155°	12.7	14.5	15.8	16.6	13.3	13.7	12.9	13.3	11.5	13.2	11.9
156°	12.7	14.4	15.8	16.6	13.3	13.5	12.9	13.3	11.5	13.2	12.0
157°	12.7	14.4	15.8	16.2	13.3	13.5	13.0	13.4	11.7	13.2	12.1
158°	12.7	14.3	15.7	16.2	13.3	13.4	13.0	13.4	11.9	13.2	12.1
159°	12.7	14.3	15.7	15.9	13.2	13.4	13.0	13.4	12.1	13.3	12.2
160°	12.7	14.3	15.7	15.9	13.2	13.4	13.1	13.4	12.3	13.5	12.3
161°	13.3	14.2	15.7	15.7	13.2	13.3	13.3	13.5	12.5	13.7	12.4
162°	13.3	14.2	15.7	15.5	13.2	13.3	13.6	14.2	13.4	14.4	13.2
163°	13.5	14.6	15.7	15.4	13.1	13.3	13.6	14.8	14.2	14.7	13.9
164°	13.9	14.4	15.6	15.0	13.1	13.2	13.6	15.2	14.6	14.9	14.3
165°	14.4	14.4	15.6	15.2	13.1	13.2	13.6	15.3	15.1	15.2	14.8
166°	14.7	14.9	15.6	14.8	13.1	13.1	13.7	15.4	15.8	15.4	15.3
167°	15.1	15.4	15.6	14.7	13.0	13.1	13.7	15.5	16.5	15.8	16.0
168°	15.4	15.6	15.6	14.7	13.0	13.1	13.7	15.6	16.8	16.1	16.7
169°	15.8	15.7	15.5	14.6	13.0	13.0	13.7	15.7	17.2	16.3	17.4
170°	15.9	15.9	15.5	14.5	13.0	13.0	13.7	15.8	17.7	16.3	17.9
171°	16.0	16.0	15.5	14.4	12.9	13.0	13.7	15.9	17.9	16.3	18.6
172°	16.0	16.2	15.5	14.3	12.9	12.9	13.7	15.9	18.2	16.2	19.0
173°	16.0	16.3	15.5	13.6	12.9	12.9	13.7	16.2	18.4	16.2	18.8
174°	16.0	16.3	15.4	13.3	12.9	12.9	13.7	16.6	18.5	16.2	18.8
175°	16.1	16.6	15.4	13.3	12.8	12.8	13.8	16.4	18.7	16.2	19.0
176°	16.1	17.0	15.4	13.3	12.8	12.8	13.8	16.4	18.9	16.1	18.5
177°	16.1	17.2	15.3	13.1	12.8	12.6	13.8	16.4	19.1	16.1	17.9



TEST NUMBER: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**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: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3371.0	3371.0	3371.0	3371.0	3371.0	3371.0
1°	3372.0	3369.0	3369.4	3365.0	3371.6	3372.2
2°	3364.2	3363.8	3364.8	3370.4	3371.6	3372.2
3°	3361.6	3360.8	3359.8	3365.6	3368.0	3368.8
4°	3355.8	3355.4	3353.0	3361.4	3359.6	3362.2
5°	3348.2	3351.0	3347.6	3350.2	3351.2	3354.8
6°	3339.6	3338.4	3344.6	3343.6	3347.2	3345.2
7°	3329.0	3326.8	3332.0	3336.8	3338.0	3337.6
8°	3321.6	3315.6	3322.6	3328.6	3327.6	3329.4
9°	3308.4	3308.2	3310.2	3317.4	3313.4	3321.2
10°	3298.4	3293.4	3298.6	3305.8	3298.0	3304.4
11°	3278.8	3287.0	3289.0	3291.2	3282.0	3288.2
12°	3269.6	3271.2	3273.0	3279.2	3268.6	3275.4
13°	3248.2	3255.2	3260.2	3263.4	3250.4	3259.4
14°	3230.0	3238.6	3244.4	3246.4	3232.0	3239.0
15°	3219.6	3220.6	3229.0	3231.4	3209.0	3220.2
16°	3197.6	3204.2	3209.0	3212.8	3187.6	3200.2
17°	3179.4	3183.2	3190.8	3193.2	3163.4	3173.4
18°	3156.4	3159.2	3173.4	3169.0	3138.8	3153.2
19°	3136.6	3140.6	3154.8	3146.4	3113.4	3128.2
20°	3111.8	3120.8	3127.2	3120.0	3090.0	3099.6
21°	3088.0	3097.6	3104.2	3094.8	3060.8	3071.8
22°	3064.2	3072.4	3077.8	3070.4	3030.6	3046.8
23°	3037.6	3045.4	3049.0	3038.0	2999.4	3016.2
24°	3014.4	3021.8	3024.8	3011.8	2966.8	2985.0
25°	2985.6	2995.4	3001.0	2981.2	2934.4	2952.2
26°	2954.6	2967.8	2971.0	2948.6	2902.3	2917.3
27°	2926.1	2941.8	2941.6	2919.9	2868.7	2880.1
28°	2899.3	2913.9	2915.1	2883.1	2836.5	2845.7
29°	2872.1	2884.5	2882.5	2852.1	2801.5	2811.5
30°	2837.5	2853.1	2850.3	2818.3	2765.3	2776.5
31°	2806.9	2822.9	2817.7	2782.7	2729.5	2736.3
32°	2777.1	2791.9	2784.5	2748.9	2692.7	2694.9
33°	2743.9	2760.5	2752.9	2714.5	2654.7	2654.9
34°	2710.7	2728.5	2720.3	2673.1	2614.1	2615.5
35°	2679.7	2698.7	2687.1	2638.5	2572.7	2572.7
36°	2641.9	2665.7	2651.9	2598.1	2530.9	2532.1
37°	2609.5	2629.7	2618.9	2559.3	2488.9	2488.9
38°	2569.9	2603.1	2583.9	2521.9	2446.7	2447.3
39°	2538.1	2564.7	2548.5	2478.3	2404.5	2400.9
40°	2499.9	2528.9	2514.5	2437.1	2361.3	2356.9
41°	2466.9	2495.9	2480.1	2396.7	2316.3	2311.7
42°	2432.9	2460.1	2445.5	2357.9	2270.1	2268.3



TEST NUMBER: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2319.5	2355.1	2328.7	2230.1	2133.3	2126.5
46°	2279.1	2316.1	2290.7	2185.9	2087.1	2079.1
47°	2242.3	2277.3	2249.9	2145.3	2038.5	2029.5
48°	2203.3	2239.5	2208.9	2103.1	1991.2	1983.5
49°	2163.3	2204.5	2172.5	2059.1	1944.9	1934.9
50°	2123.9	2165.9	2128.1	2014.5	1898.4	1885.2
51°	2086.3	2123.5	2085.3	1966.7	1848.1	1835.7
52°	2042.5	2087.1	2048.7	1922.4	1798.1	1785.0
53°	2006.1	2050.3	2007.9	1880.8	1752.7	1734.7
54°	1961.9	2010.5	1966.4	1836.0	1703.3	1684.5
55°	1918.9	1971.7	1924.8	1791.5	1653.4	1635.2
56°	1879.8	1931.5	1881.1	1746.4	1605.7	1584.4
57°	1837.9	1892.3	1841.3	1700.2	1556.9	1533.3
58°	1796.3	1851.8	1797.6	1656.7	1507.8	1481.5
59°	1753.0	1808.4	1755.3	1610.8	1456.8	1430.2
60°	1709.6	1766.4	1709.4	1562.7	1409.5	1379.5
61°	1667.3	1724.5	1666.3	1518.4	1359.9	1327.7
62°	1625.0	1683.6	1621.5	1471.6	1310.1	1274.6
63°	1581.3	1642.3	1579.6	1426.0	1260.1	1222.1
64°	1537.2	1598.6	1532.1	1381.6	1210.4	1168.7
65°	1493.2	1553.8	1490.0	1335.2	1161.3	1116.6
66°	1449.4	1511.1	1447.3	1287.9	1113.1	1063.0
67°	1405.6	1469.6	1401.9	1241.9	1062.9	1010.6
68°	1360.6	1423.8	1359.2	1194.7	1014.2	957.9
69°	1317.5	1382.8	1314.6	1148.7	964.3	905.3
70°	1272.3	1339.5	1269.3	1103.4	915.9	851.5
71°	1231.0	1292.4	1225.1	1058.0	867.3	798.4
72°	1186.2	1249.4	1182.1	1013.3	820.3	745.8
73°	1141.9	1203.6	1138.0	967.0	772.7	692.7
74°	1097.5	1160.0	1094.4	921.7	724.2	639.3
75°	1052.2	1114.1	1050.2	877.6	678.5	588.0
76°	1008.5	1068.0	1006.4	833.9	635.1	537.4
77°	966.4	1022.6	963.1	791.1	588.4	486.4
78°	922.7	975.5	921.1	748.8	544.1	437.2
79°	881.5	932.2	879.0	707.1	501.3	390.0
80°	841.9	890.4	838.5	667.3	459.6	342.5
81°	800.9	847.3	796.5	628.3	419.9	298.9
82°	764.2	808.6	757.2	591.8	382.6	256.5
83°	729.4	769.9	719.1	555.6	345.5	215.7
84°	695.9	734.4	683.1	521.1	311.2	178.6
85°	663.5	700.4	650.6	489.1	277.9	143.1
86°	634.5	670.0	620.5	460.5	249.9	111.9
87°	608.1	644.2	594.6	434.5	225.0	85.8



TEST NUMBER: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	552.5	586.1	536.1	379.3	174.1	43.1
91°	535.9	569.0	518.6	365.0	163.6	40.7
92°	520.4	551.5	503.1	351.6	153.6	39.7
93°	504.4	535.4	487.7	338.2	144.6	38.7
94°	487.6	519.7	471.7	324.0	136.8	37.8
95°	471.7	504.3	456.2	311.0	128.6	37.1
96°	455.4	489.3	441.8	299.7	120.3	36.1
97°	441.1	474.5	427.7	287.7	112.9	35.5
98°	426.3	459.8	413.6	276.6	105.8	34.7
99°	411.2	446.3	400.1	265.2	99.2	34.5
100°	396.7	432.0	385.9	254.6	93.3	34.1
101°	382.7	418.0	371.7	243.4	87.6	33.6
102°	367.9	405.3	358.5	233.5	81.7	32.9
103°	355.5	392.8	346.6	223.0	76.7	32.4
104°	340.1	379.4	334.6	212.9	71.5	31.9
105°	327.9	367.5	323.3	202.7	66.6	31.4
106°	315.9	355.5	310.7	193.4	62.1	31.0
107°	302.8	343.2	297.7	183.7	58.0	30.5
108°	290.1	330.6	285.5	174.6	54.2	30.2
109°	277.1	316.9	273.7	166.2	50.4	29.5
110°	266.1	304.5	262.3	157.6	46.5	28.9
111°	254.4	292.2	250.9	149.1	43.4	28.3
112°	243.4	279.3	240.4	141.3	40.1	28.1
113°	232.8	267.1	229.3	133.6	37.1	27.7
114°	222.5	255.7	218.8	125.9	34.2	27.0
115°	210.6	245.0	208.8	119.1	31.9	26.5
116°	201.7	233.3	198.5	111.7	30.2	26.2
117°	191.4	223.1	188.0	104.7	29.8	25.8
118°	181.7	212.4	178.3	97.8	29.3	25.3
119°	171.7	201.8	168.5	91.3	28.6	24.8
120°	162.0	191.5	159.4	85.1	28.5	24.4
121°	152.8	181.4	150.5	78.2	27.8	23.9
122°	144.1	171.1	141.6	72.7	27.3	23.4
123°	134.8	161.7	133.1	66.6	27.1	22.4
124°	127.0	152.6	124.7	60.8	26.4	21.7
125°	118.1	143.1	116.7	55.6	26.0	21.3
126°	110.1	134.5	108.4	50.6	25.5	20.8
127°	102.6	125.6	100.2	45.5	24.8	20.5
128°	93.7	117.2	92.6	40.7	24.7	20.1
129°	86.6	108.6	84.8	36.5	23.8	19.8
130°	79.2	100.3	77.8	32.1	23.3	19.2
131°	72.0	92.5	70.8	28.1	22.9	18.9
132°	65.0	84.4	64.0	24.7	22.1	18.4



TEST NUMBER: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	46.2	62.6	45.9	21.3	20.9	17.2
136°	40.0	56.7	40.4	20.9	20.4	16.8
137°	35.0	50.0	35.2	20.8	19.7	16.6
138°	29.1	43.9	30.2	20.1	19.3	16.3
139°	24.3	38.0	25.6	19.4	18.6	16.1
140°	19.6	32.6	21.5	19.0	17.9	15.6
141°	16.0	27.4	19.3	18.7	17.8	15.4
142°	14.8	22.9	18.7	18.3	17.3	15.3
143°	14.8	19.3	18.6	17.8	16.9	14.9
144°	14.3	18.4	18.2	17.3	16.4	14.6
145°	13.8	17.7	17.7	16.6	16.0	14.3
146°	13.8	17.5	17.3	16.2	15.9	14.0
147°	13.6	16.8	17.0	15.7	15.5	13.7
148°	13.4	16.7	16.8	15.3	15.2	13.5
149°	12.9	16.3	16.5	15.2	14.7	13.2
150°	12.4	16.0	16.3	15.0	14.7	13.2
151°	12.0	15.6	15.9	14.5	14.5	12.8
152°	11.7	15.3	15.4	14.3	14.1	12.8
153°	11.0	14.9	15.4	14.1	14.2	12.8
154°	10.8	14.6	15.2	14.3	14.2	12.8
155°	10.6	14.4	15.1	14.3	14.3	12.7
156°	10.7	14.0	14.9	14.3	14.3	12.7
157°	10.7	14.2	14.7	14.3	14.4	12.7
158°	10.7	14.0	14.5	14.3	14.4	12.7
159°	10.8	13.9	14.4	14.3	14.5	12.7
160°	10.8	13.8	14.4	14.3	14.5	12.7
161°	10.8	13.5	14.0	14.3	14.6	13.3
162°	11.5	13.5	13.8	14.3	14.6	13.3
163°	11.9	13.3	14.0	14.3	14.7	13.5
164°	12.0	13.0	13.7	14.3	15.2	13.9
165°	12.4	13.0	13.7	14.3	15.7	14.4
166°	12.7	12.9	13.7	14.4	15.9	14.7
167°	12.9	12.9	13.7	14.4	16.7	15.1
168°	13.2	12.9	13.7	14.5	17.1	15.4
169°	13.4	12.8	13.7	14.5	17.6	15.8
170°	13.6	12.8	13.7	14.6	18.3	15.9
171°	13.8	12.4	13.7	14.6	18.8	16.0
172°	14.3	12.4	13.7	15.0	19.0	16.0
173°	15.0	12.4	13.7	16.2	18.8	16.0
174°	15.5	12.4	13.7	16.2	18.8	16.0
175°	15.4	12.3	13.7	16.4	19.0	16.1
176°	15.4	12.3	14.0	16.6	19.0	16.1
177°	15.4	12.3	13.8	16.6	19.0	16.1



TEST NUMBER: P861202

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 277V

**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°	2221.9	2297.9	2414.7	2528.3	2567.9	2512.7	2393.7	2264.9	2193.9	2215.3	2291.7
44°	2174.3	2255.1	2374.7	2493.1	2535.5	2478.1	2349.5	2220.5	2147.5	2171.7	2253.3



88°	65.7	277.6	534.9	718.0	796.4	712.1	504.5	242.8	57.6	219.0	423.9
89°	50.0	255.6	508.4	688.5	764.7	681.2	477.6	222.6	45.3	203.0	408.3



133°	17.9	22.0	39.6	89.0	109.9	84.6	31.3	18.8	15.9	17.5	19.8
134°	17.7	21.8	34.8	81.2	101.7	76.9	27.1	18.3	14.7	17.3	17.4



178°	16.1	17.0	15.3	13.1	13.0	13.0	13.8	16.4	19.1	16.1	17.8
179°	16.1	17.2	15.3	13.1	13.5	12.8	13.8	16.4	19.1	16.1	17.6







43°	2391.7	2426.3	2400.5	2318.1	2225.9	2221.9
44°	2356.1	2387.9	2366.7	2274.3	2180.5	2174.3



88°	585.9	622.1	572.2	413.3	204.4	65.7
89°	568.3	603.2	554.0	395.3	186.8	50.0



133°	57.9	76.9	58.3	22.7	21.7	17.9
134°	52.5	69.7	52.1	22.0	21.2	17.7



178°	15.4	12.4	13.8	16.6	19.0	16.1
179°	15.4	13.0	13.8	16.6	19.0	16.1



(END OF REPORT)