

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL88542.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/26/16
[ISSUE DATE]01/19/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-WG-6W-2D-4ft-V-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI's
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.3 WATTS
[ABSOLUTE LUMENS]2578

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2578
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.24
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.01 ft
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1355	1569	11027
55	1283	1364	8399
65	1796	1447	5874
75	1422	1915	3505
85	236	263	1128

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

CANDELA TABULATION

	0	5	15	25	35	45	55	65	75	85
0.0	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274
0.5	3190	3201	3181	3187	3194	3206	3219	3234	3249	3265
1.0	3069	3100	3082	3095	3111	3135	3161	3191	3223	3257
1.5	2972	2989	2976	2996	3023	3060	3116	3148	3197	3247
2.0	2835	2871	2864	2891	2931	2983	3054	3104	3170	3237
2.5	2724	2745	2743	2781	2830	2899	2991	3057	3140	3226
3.0	2607	2613	2619	2666	2727	2813	2923	3011	3112	3216
3.5	2482	2477	2489	2545	2619	2723	2853	2960	3083	3203
4.0	2298	2340	2359	2423	2510	2631	2782	2911	3053	3193
4.5	2207	2202	2229	2302	2397	2536	2708	2859	3021	3180
5.0	2070	2071	2104	2181	2286	2441	2630	2806	2991	3168
5.5	1936	1947	1984	2065	2175	2345	2552	2751	2958	3158
6.0	1813	1831	1870	1954	2069	2251	2475	2697	2925	3144
6.5	1733	1721	1762	1848	1968	2157	2397	2641	2892	3129
7.0	1624	1621	1665	1751	1871	2067	2320	2585	2857	3115
7.5	1520	1529	1574	1659	1800	1979	2242	2528	2822	3099
8.0	1457	1444	1489	1573	1713	1895	2166	2469	2786	3083
8.5	1372	1366	1411	1493	1632	1815	2091	2413	2751	3066
9.0	1293	1295	1340	1420	1555	1739	2019	2355	2714	3049
9.5	1245	1229	1273	1353	1482	1666	1949	2298	2677	3032
10.0	1177	1168	1214	1290	1417	1597	1880	2242	2639	3014
11.0	1061	1075	1105	1178	1297	1471	1753	2132	2564	2978
11.5	1026	1027	1057	1128	1243	1413	1692	2077	2525	2958
12.0	978	984	1014	1082	1193	1359	1636	2025	2489	2939
12.5	933	943	973	1039	1146	1308	1581	1973	2450	2919
13.0	893	907	936	998	1101	1260	1528	1923	2412	2900
13.5	870	873	901	962	1060	1214	1478	1873	2374	2880
14.0	837	843	870	929	1022	1173	1430	1825	2337	2861
14.5	806	814	839	896	985	1131	1384	1776	2299	2840
15.0	787	789	812	866	951	1093	1340	1729	2261	2818
16.0	743	742	763	813	890	1022	1257	1639	2187	2775
17.0	702	703	721	766	836	959	1182	1545	2113	2736
18.0	660	668	682	725	787	901	1112	1465	2042	2693
19.0	617	628	649	687	745	850	1057	1391	1975	2651
20.0	579	586	609	647	707	804	998	1321	1909	2604
22.5	500	504	518	559	622	708	872	1176	1749	2484
25.0	456	458	468	492	545	628	769	1041	1607	2360
27.5	429	431	434	450	487	559	686	930	1469	2234
30.0	401	405	410	421	445	501	612	832	1341	2102
32.5	363	367	378	393	414	458	550	748	1223	1971
35.0	335	336	344	361	386	420	498	676	1114	1837
37.5	322	324	326	336	357	391	454	618	1013	1705
40.0	314	315	315	319	331	362	416	559	919	1572
42.5	307	307	306	306	313	334	384	508	832	1444
45.0	294	294	296	297	298	312	355	462	756	1317
47.5	284	284	283	285	287	294	327	421	681	1193
50.0	288	289	285	274	276	279	301	384	613	1067
52.5	271	271	273	279	264	267	280	350	549	958
55.0	265	264	262	263	267	253	261	318	490	846
57.5	275	274	268	258	254	247	245	286	433	741
60.0	285	284	278	267	250	245	231	258	381	643
62.5	304	302	290	276	259	236	222	233	332	551
65.0	341	338	319	293	267	241	220	211	287	466
67.5	387	384	360	325	283	247	212	192	243	388

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

CANDELA TABULATION - (Cont.)

70.0	416	415	394	360	310	257	215	181	204	318
72.5	358	359	361	356	328	274	216	173	170	254
75.0	238	239	249	267	286	273	220	168	141	197
77.5	48	51	81	135	181	211	211	161	119	146
80.0	35	35	35	35	40	107	150	149	104	103
82.5	34	34	34	34	33	31	51	101	88	68
85.0	33	33	34	33	32	30	28	33	60	41
87.5	32	32	33	32	31	29	26	23	21	19
90.0	31	31	31	31	30	27	24	21	17	9
92.5	30	30	30	30	28	26	22	18	13	4
95.0	29	29	29	28	27	24	20	15	8	1
97.5	27	28	28	27	25	22	18	12	5	0
100.0	26	26	26	25	23	20	15	9	2	0
102.5	24	24	24	23	21	17	13	6	1	0
105.0	23	23	22	21	19	15	10	3	1	0
107.5	21	21	20	19	16	12	7	1	1	0
110.0	19	19	18	17	13	9	4	1	0	0
112.5	16	16	16	14	10	6	1	1	0	0
115.0	13	13	12	10	7	3	1	0	0	0
117.5	10	10	9	7	4	1	1	0	0	0
120.0	7	7	6	4	1	0	0	0	0	0
122.5	4	4	3	1	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0.0	3274	3274	3274	3274	3274	3274	3274	3274	3274	3274
0.5	3273	3283	3299	3314	3329	3341	3352	3358	3364	3370
1.0	3274	3290	3323	3352	3382	3404	3426	3437	3448	3459
1.5	3273	3297	3346	3389	3432	3464	3495	3511	3525	3539
2.0	3271	3304	3368	3424	3479	3519	3557	3575	3591	3609
2.5	3269	3310	3389	3457	3523	3556	3609	3627	3642	3662
3.0	3267	3316	3409	3489	3563	3600	3652	3665	3678	3698

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

CANDELA TABULATION - (Cont.)

3.5	3263	3320	3427	3518	3597	3633	3679	3686	3695	3713
4.0	3260	3326	3446	3544	3625	3658	3696	3694	3696	3712
4.5	3257	3330	3462	3567	3646	3671	3698	3685	3679	3690
5.0	3253	3334	3478	3588	3661	3674	3692	3664	3650	3654
5.5	3249	3337	3492	3603	3666	3668	3673	3629	3604	3616
6.0	3244	3339	3505	3616	3668	3654	3643	3582	3547	3555
6.5	3237	3341	3515	3621	3662	3630	3601	3523	3475	3480
7.0	3231	3342	3525	3625	3652	3598	3549	3455	3397	3397
7.5	3223	3342	3531	3623	3632	3558	3489	3378	3311	3303
8.0	3215	3341	3535	3618	3609	3510	3422	3296	3216	3203
8.5	3206	3339	3537	3606	3578	3457	3349	3206	3114	3094
9.0	3198	3336	3537	3593	3542	3397	3270	3110	3004	2977
9.5	3188	3333	3534	3575	3500	3334	3184	3007	2890	2852
10.0	3179	3329	3528	3552	3455	3265	3092	2900	2769	2720
11.0	3159	3318	3512	3498	3350	3115	2894	2671	2515	2451
11.5	3147	3312	3499	3463	3293	3054	2788	2551	2383	2311
12.0	3137	3305	3485	3427	3234	2949	2680	2430	2251	2172
12.5	3127	3298	3468	3387	3172	2882	2569	2307	2116	2031
13.0	3113	3289	3448	3345	3106	2767	2454	2181	1982	1892
13.5	3103	3279	3426	3302	3038	2699	2340	2057	1850	1755
14.0	3087	3269	3403	3257	2965	2604	2225	1932	1720	1622
14.5	3077	3257	3377	3208	2891	2507	2109	1808	1594	1493
15.0	3060	3244	3350	3158	2814	2408	1991	1685	1471	1371
16.0	3029	3218	3294	3056	2657	2209	1762	1452	1245	1150
17.0	2997	3188	3232	2946	2496	2008	1544	1240	1047	962
18.0	2962	3154	3165	2831	2328	1807	1342	1053	881	808
19.0	2925	3119	3094	2712	2160	1616	1160	895	747	685
20.0	2886	3081	3022	2589	1991	1432	1000	765	640	584
22.5	2786	2967	2834	2269	1585	1042	701	531	416	358
25.0	2670	2839	2619	1961	1224	759	486	331	243	198
27.5	2545	2699	2391	1640	936	559	312	184	110	77
30.0	2413	2548	2139	1343	718	381	178	73	47	41
32.5	2276	2381	1907	1084	552	243	75	42	34	30
35.0	2134	2214	1665	867	394	129	44	32	27	25
37.5	1990	2044	1444	693	265	59	33	26	23	22
40.0	1843	1869	1227	551	152	41	27	22	20	16
42.5	1696	1694	1031	416	73	32	23	18	3	3
45.0	1542	1520	857	293	46	26	19	4	3	2
47.5	1398	1359	705	195	34	21	4	3	2	1
50.0	1251	1196	576	108	27	14	3	2	1	1
52.5	1114	1041	466	57	22	5	3	2	1	1
55.0	984	896	356	38	17	4	2	1	1	0
57.5	861	762	261	28	6	3	1	1	0	0
60.0	743	640	170	21	4	2	1	0	0	0
62.5	634	529	96	16	3	1	1	0	0	0
65.0	534	429	50	6	2	1	0	0	0	0
67.5	441	341	30	4	2	1	0	0	0	0
70.0	358	263	20	3	1	0	0	0	0	0
72.5	284	197	12	2	0	0	0	0	0	0
75.0	217	138	5	1	0	0	0	0	0	0
77.5	159	84	3	0	0	0	0	0	0	0
80.0	112	46	1	0	0	0	0	0	0	0
82.5	70	20	0	0	0	0	0	0	0	0
85.0	35	7	0	0	0	0	0	0	0	0
87.5	14	2	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

CANDELA TABULATION - (Cont.)

92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
 Angles

	<u>180</u>
0.0	3274
0.5	3366
1.0	3453
1.5	3531
2.0	3596
2.5	3622
3.0	3661
3.5	3680
4.0	3681
4.5	3664
5.0	3632
5.5	3584
6.0	3521
6.5	3446
7.0	3362
7.5	3270

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

CANDELA TABULATION - (Cont.)

8.0	3169
8.5	3061
9.0	2944
9.5	2822
10.0	2693
11.0	2426
11.5	2287
12.0	2153
12.5	2016
13.0	1878
13.5	1744
14.0	1614
14.5	1488
15.0	1367
16.0	1148
17.0	960
18.0	806
19.0	684
20.0	583
22.5	358
25.0	197
27.5	75
30.0	40
32.5	30
35.0	25
37.5	21
40.0	15
42.5	2
45.0	2
47.5	1
50.0	1
52.5	0
55.0	0
57.5	0
60.0	0
62.5	0
65.0	0
67.5	0
70.0	0
72.5	0
75.0	0
77.5	0
80.0	0
82.5	0
85.0	0
87.5	0
90.0	0
92.5	0
95.0	0
97.5	0
100.0	0
102.5	0
105.0	0
107.5	0
110.0	0
112.5	0

CANDELA TABULATION - (Cont.)

115.0	0
117.5	0
120.0	0
122.5	0
125.0	0
127.5	0
130.0	0
132.5	0
135.0	0
137.5	0
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-WG-6W-2D-4FT-V-8TW-ITL88542.900.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	800.28	N.A.	31.00
0-30	1290.84	N.A.	50.10
0-40	1691.51	N.A.	65.60
0-60	2234.22	N.A.	86.70
0-80	2533.39	N.A.	98.30
0-90	2557.81	N.A.	99.20
10-90	2284.25	N.A.	88.60
20-40	891.23	N.A.	34.60
20-50	1203.07	N.A.	46.70
40-70	721.26	N.A.	28.00
60-80	299.17	N.A.	11.60
70-80	120.62	N.A.	4.70
80-90	24.42	N.A.	0.90
90-110	17.71	N.A.	0.70
90-120	20.37	N.A.	0.80
90-130	20.59	N.A.	0.80
90-150	20.59	N.A.	0.80
90-180	20.59	N.A.	0.80
110-180	2.88	N.A.	0.10
0-180	2578.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

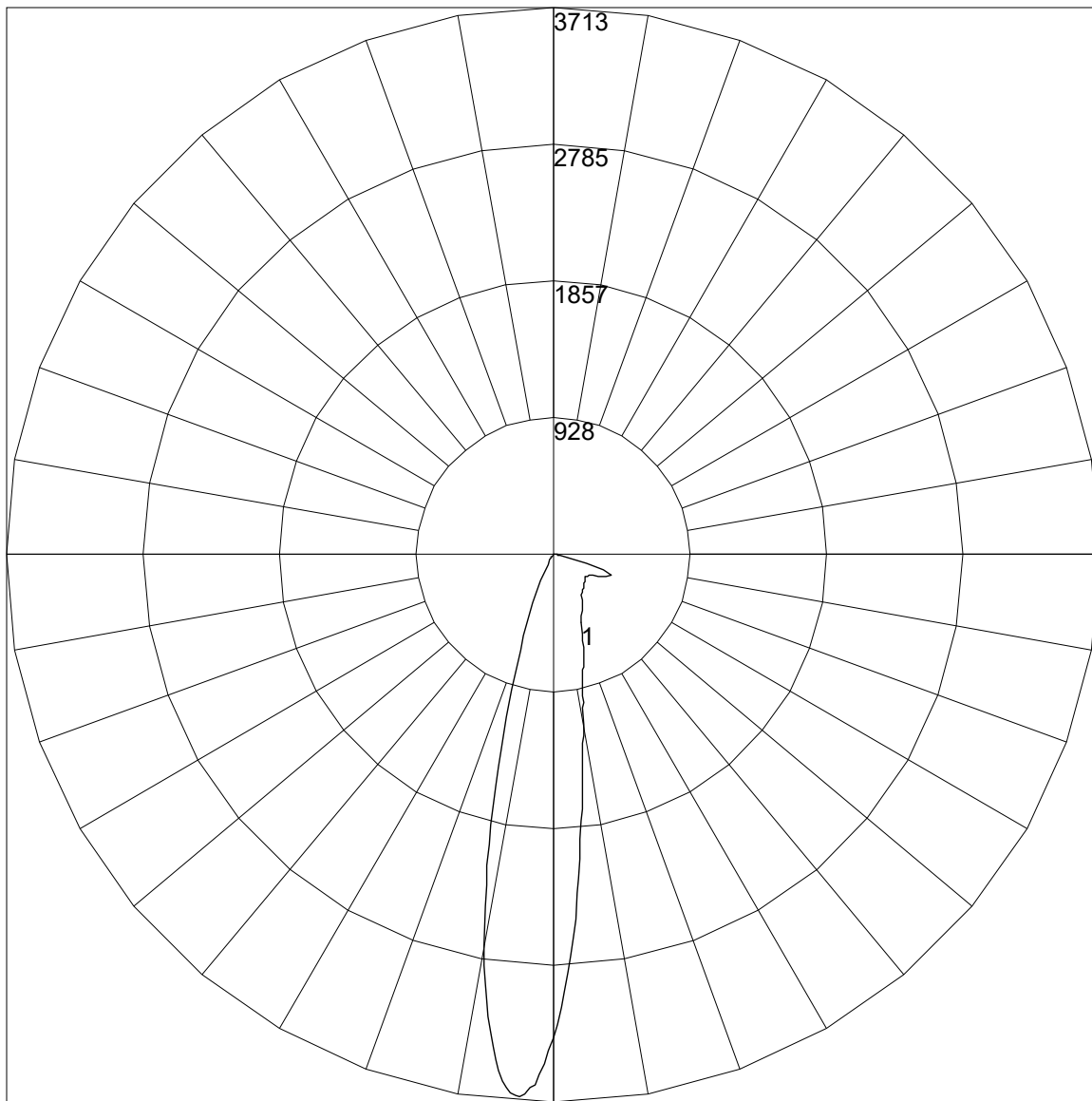
Zone	Lumens
0-10	273.56
10-20	526.72
20-30	490.55
30-40	400.68
40-50	311.84
50-60	230.86
60-70	178.55
70-80	120.62
80-90	24.42
90-100	11.04
100-110	6.68
110-120	2.66
120-130	0.22
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	111	107	104	100	108	105	102	99	100	98	96	96	94	92	93	91	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	77
3	96	87	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	74	66	61	82	73	66	61	71	64	60	69	63	59	67	62	59	57
6	79	68	61	56	77	67	60	55	66	59	55	64	58	54	62	58	54	52
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

POLAR GRAPH



Maximum Candela = 3713 Located At Horizontal Angle = 175, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)