



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13065  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 11/22/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-85L-VNF-50-GS  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	620345
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	13.6
Vertical Beam Angle (50%)	14.2
Horizontal Field Angle (10%)	28.5
Vertical Field Angle (10%)	28.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	21510
Beam Efficiency	N.A.
Field Lumens	41946
Field Efficiency	N.A.
Spill Lumens	27827
Luminaire Lumens	69773
Total Efficiency	N.A.
Total Luminaire Watts	573
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	86	85	0
75	439	75	0
65	947	65	147
55	1905	55	1024
47.5	4116	47.5	2192
42.5	6460	42.5	3986
37.5	9398	37.5	6544
33	11664	33	9229
29	13439	29	11251
25.5	15765	25.5	13679
22.5	19567	22.5	17392
19.5	25598	19.5	23731
17	35806	17	33855
15	50974	15	47673
13	79553	13	75356
11	125553	11	118827
9	197343	9	186743
7	304370	7	287319
5	457157	5	428320
3	579256	3	560122
1	615314	1	608631
0	619003	0	619003
-1	615314	-1	620345
-3	579256	-3	596235
-5	457157	-5	491742
-7	304370	-7	343410
-9	197343	-9	223862
-11	125553	-11	140323
-13	79553	-13	88661
-15	50974	-15	53380
-17	35806	-17	37336
-19.5	25598	-19.5	26120
-22.5	19567	-22.5	19991
-25.5	15765	-25.5	16610
-29	13439	-29	14357
-33	11664	-33	12633
-37.5	9398	-37.5	10398
-42.5	6460	-42.5	7577
-47.5	4116	-47.5	4910
-55	1905	-55	2428
-65	947	-65	1305
-75	439	-75	717
-85	86	-85	196
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 620345

Beam Edge = 310172.5 Cd (50% of Max.)

Field Edge = 62034.5 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>-90.0</u></b>	<b><u>-85.0</u></b>	<b><u>-75.0</u></b>	<b><u>-65.0</u></b>	<b><u>-55.0</u></b>	<b><u>-47.5</u></b>	<b><u>-42.5</u></b>	<b><u>-37.5</u></b>	<b><u>-33.0</u></b>	<b><u>-29.0</u></b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	6	16	14	11	9	8	5	4	3
<b>75.0</b>	0	19	50	57	60	53	46	37	24	19
<b>65.0</b>	0	31	91	143	198	221	229	234	232	230
<b>55.0</b>	0	43	143	272	390	479	546	605	665	725
<b>47.5</b>	0	52	186	366	544	691	809	950	1101	1264
<b>42.5</b>	0	58	219	431	660	893	1097	1369	1697	2036
<b>37.5</b>	0	63	250	501	805	1160	1500	2016	2670	3353
<b>33.0</b>	0	68	278	569	957	1448	1997	2857	3854	4826
<b>29.0</b>	0	71	306	630	1094	1761	2558	3788	5145	6391
<b>25.5</b>	0	74	329	685	1232	2045	3173	4684	6309	7763
<b>22.5</b>	0	76	347	724	1345	2360	3695	5446	7273	8945
<b>19.5</b>	0	78	365	766	1448	2654	4233	6199	8195	9951
<b>17.0</b>	0	80	378	798	1533	2905	4648	6801	8933	10623
<b>15.0</b>	0	81	388	822	1597	3116	4973	7246	9500	11136
<b>13.0</b>	0	82	398	845	1656	3308	5280	7688	10015	11605
<b>11.0</b>	0	85	406	867	1709	3482	5562	8097	10411	12055
<b>9.0</b>	0	85	414	885	1758	3635	5814	8460	10729	12480
<b>7.0</b>	0	85	421	902	1801	3767	6035	8770	11025	12821
<b>5.0</b>	0	85	430	917	1838	3883	6223	9027	11292	13082
<b>3.0</b>	0	86	434	932	1877	4020	6392	9221	11515	13282
<b>1.0</b>	0	86	437	942	1896	4084	6437	9359	11627	13402
<b>0.0</b>	0	86	439	947	1905	4116	6460	9398	11664	13439
<b>-1.0</b>	0	86	441	951	1918	4137	6491	9438	11703	13507
<b>-3.0</b>	0	87	446	959	1944	4179	6554	9457	11743	13588
<b>-5.0</b>	0	87	450	962	1948	4143	6498	9431	11731	13571
<b>-7.0</b>	0	87	449	965	1951	4106	6452	9353	11662	13495
<b>-9.0</b>	0	88	450	966	1938	4041	6366	9217	11535	13372
<b>-11.0</b>	0	88	449	964	1918	3950	6239	9025	11347	13207
<b>-13.0</b>	0	86	448	961	1892	3833	6072	8771	11101	13005
<b>-15.0</b>	0	85	446	956	1860	3688	5861	8467	10822	12770
<b>-17.0</b>	0	85	443	948	1821	3516	5616	8144	10503	12323
<b>-19.5</b>	0	84	437	936	1765	3299	5270	7677	9996	11690
<b>-22.5</b>	0	82	427	917	1704	3030	4767	7034	9198	10916
<b>-25.5</b>	0	81	415	897	1630	2726	4253	6342	8336	10037
<b>-29.0</b>	0	79	399	862	1530	2457	3645	5464	7224	8848
<b>-33.0</b>	0	76	377	820	1421	2145	3027	4450	5928	7267
<b>-37.5</b>	0	72	352	766	1292	1873	2451	3384	4509	5604
<b>-42.5</b>	0	67	320	700	1160	1599	1991	2521	3172	3853
<b>-47.5</b>	0	61	285	629	1031	1361	1635	1980	2306	2666
<b>-55.0</b>	0	52	234	516	823	1074	1235	1411	1581	1727
<b>-65.0</b>	0	38	163	346	557	720	827	926	1012	1076
<b>-75.0</b>	0	24	97	190	300	388	445	500	546	581
<b>-85.0</b>	0	8	34	62	92	115	129	142	153	160
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	2	2	1	1	1	1	1	0	0	0
75.0	12	7	6	4	2	1	1	0	0	0
65.0	224	217	215	209	202	195	189	181	171	160
55.0	774	823	871	903	927	950	968	985	1000	1012
47.5	1391	1542	1653	1759	1858	1936	1997	2068	2123	2161
42.5	2411	2714	3017	3227	3401	3554	3675	3785	3878	3941
37.5	3948	4430	4913	5278	5542	5830	6073	6269	6395	6465
33.0	5662	6350	7019	7562	7940	8274	8541	8745	8907	9030
29.0	7439	8283	9025	9553	9931	10212	10456	10656	10841	11014
25.5	8982	9835	10530	10996	11425	11838	12202	12637	12998	13258
22.5	10121	10943	11686	12382	13042	13761	14363	15256	16020	16600
19.5	11099	12029	13083	14247	15421	16797	18069	19494	20769	21752
17.0	11876	12970	14468	16331	17991	20264	22327	25117	27687	29475
15.0	12473	13803	15829	18244	20750	23597	27620	31317	37700	42670
13.0	13023	14702	17474	20671	23737	28465	34852	43212	52158	63528 *
11.0	13549	15593	19058	22906	27589	34757	45224	60027	75751 *	93338 *
9.0	14176	16726	20859	26045	31591	43499	60416	80764 *	109221 *	135585 *
7.0	14712	17745	22435	29067	38924	53490	77092 *	110928 *	146606 *	201359 *
5.0	15117	18542	23653	31608	44748	65579 *	95146 *	137363 *	206518 *	278929 *
3.0	15432	19084	24790	33997	48724	74089 *	111702 *	166715 *	246260 *	377204 *
1.0	15677	19476	25465	35580	50990	78809 *	121474 *	188135 *	289500 *	446083 *
0.0	15765	19567	25598	35806	50974	79553 *	125553 *	197343 *	304370 *	457157 *
-1.0	15882	19776	25808	36049	51244	79458 *	122925 *	191428 *	295081 *	453829 *
-3.0	15954	19667	25323	34602	49357	75868 *	115964 *	177024 *	270330 *	404459 *
-5.0	15764	19090	24097	32026	45681	67768 *	100144 *	147671 *	222610 *	313383 *
-7.0	15493	18416	22996	29665	40049	55992	81727 *	118524 *	160678 *	236120 *
-9.0	15150	17693	21683	26895	33261	46533	64957 *	87320 *	122030 *	156073 *
-11.0	14745	16812	20181	23863	29486	37419	49011	65302 *	83970 *	105764 *
-13.0	14445	16139	18857	21958	25170	30470	37353	46357	56836	70964 *
-15.0	14051	15402	17516	19887	22429	25198	29400	33457	40793	47476
-17.0	13629	14706	16314	18235	19915	21990	23877	27101	30204	32988
-19.5	13097	14005	15004	16326	17558	18899	20216	21748	23145	24294
-22.5	12223	13148	13988	14711	15470	16268	17011	17954	18771	19363
-25.5	11241	12193	13069	13666	14115	14548	14929	15397	15848	16190
-29.0	10068	10971	11773	12423	12878	13202	13447	13649	13838	14046
-33.0	8449	9406	10242	10754	11096	11415	11731	11985	12186	12349
-37.5	6553	7325	8056	8616	9009	9329	9610	9849	10043	10186
-42.5	4584	5168	5714	6115	6411	6679	6911	7109	7272	7395
-47.5	2992	3351	3674	3950	4182	4381	4549	4689	4802	4888
-55.0	1858	1960	2061	2154	2222	2286	2332	2365	2390	2407
-65.0	1129	1164	1196	1218	1234	1248	1261	1272	1280	1286
-75.0	608	629	648	664	676	686	694	701	707	715
-85.0	166	172	179	184	188	189	193	192	192	191
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	156	150	147	150	156	160	171	181	189	195

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**CANDELA TABULATION - (Cont.)**

55.0	1027	1025	1024	1025	1027	1012	1000	985	968	950
47.5	2202	2195	2192	2195	2202	2161	2123	2068	1997	1936
42.5	4010	3994	3986	3994	4010	3941	3878	3785	3675	3554
37.5	6481	6542	6544	6542	6481	6465	6395	6269	6073	5830
33.0	9104	9199	9229	9199	9104	9030	8907	8745	8541	8274
29.0	11111	11210	11251	11210	11111	11014	10841	10656	10456	10212
25.5	13416	13589	13679	13589	13416	13258	12998	12637	12202	11838
22.5	16988	17297	17392	17297	16988	16600	16020	15256	14363	13761
19.5	22845	23577	23731	23577	22845	21752	20769	19494	18069	16797
17.0	32080	33867	33855	33867	32080	29475	27687	25117	22327	20264
15.0	46242	48103	47673	48103	46242	42670	37700	31317	27620	23597
13.0	71562 *	75450 *	75356 *	75450 *	71562 *	63528 *	52158	43212	34852	28465
11.0	110036 *	118616 *	118827 *	118616 *	110036 *	93338 *	75751 *	60027	45224	34757
9.0	166035 *	185412 *	186743 *	185412 *	166035 *	135585 *	109221 *	80764 *	60416	43499
7.0	245964 *	284053 *	287319 *	284053 *	245964 *	201359 *	146606 *	110928 *	77092 *	53490
5.0	371210 *	435609 *	428320 *	435609 *	371210 *	278929 *	206518 *	137363 *	95146 *	65579 *
3.0	479425 *	555852 *	560122 *	555852 *	479425 *	377204 *	246260 *	166715 *	111702 *	74089 *
1.0	558335 *	605860 *	608631 *	605860 *	558335 *	446083 *	289500 *	188135 *	121474 *	78809 *
0.0	579256 *	615314 *	619003 *	615314 *	579256 *	457157 *	304370 *	197343 *	125553 *	79553 *
-1.0	571373 *	616937 *	620345 *	616937 *	571373 *	453829 *	295081 *	191428 *	122925 *	79458 *
-3.0	514828 *	584144 *	596235 *	584144 *	514828 *	404459 *	270330 *	177024 *	115964 *	75868 *
-5.0	424389 *	483760 *	491742 *	483760 *	424389 *	313383 *	222610 *	147671 *	100144 *	67768 *
-7.0	294229 *	330181 *	343410 *	330181 *	294229 *	236120 *	160678 *	118524 *	81727 *	55992
-9.0	191901 *	215373 *	223862 *	215373 *	191901 *	156073 *	122030 *	87320 *	64957 *	46533
-11.0	124844 *	135713 *	140323 *	135713 *	124844 *	105764 *	83970 *	65302 *	49011	37419
-13.0	81181 *	86603 *	88661 *	86603 *	81181 *	70964 *	56836	46357	37353	30470
-15.0	52280	54510	53380	54510	52280	47476	40793	33457	29400	25198
-17.0	35929	37624	37336	37624	35929	32988	30204	27101	23877	21990
-19.5	25542	26184	26120	26184	25542	24294	23145	21748	20216	18899
-22.5	19681	19924	19991	19924	19681	19363	18771	17954	17011	16268
-25.5	16384	16541	16610	16541	16384	16190	15848	15397	14929	14548
-29.0	14196	14314	14357	14314	14196	14046	13838	13649	13447	13202
-33.0	12469	12589	12633	12589	12469	12349	12186	11985	11731	11415
-37.5	10277	10377	10398	10377	10277	10186	10043	9849	9610	9329
-42.5	7529	7561	7577	7561	7529	7395	7272	7109	6911	6679
-47.5	4964	4928	4910	4928	4964	4888	4802	4689	4549	4381
-55.0	2428	2428	2428	2428	2428	2407	2390	2365	2332	2286
-65.0	1296	1302	1305	1302	1296	1286	1280	1272	1261	1248
-75.0	716	717	717	717	716	715	707	701	694	686
-85.0	193	195	196	195	193	191	192	192	193	189
-90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	1	1	1	2	2	3	4	5	8	9
75.0	2	4	6	7	12	19	24	37	46	53
65.0	202	209	215	217	224	230	232	234	229	221
55.0	927	903	871	823	774	725	665	605	546	479
47.5	1858	1759	1653	1542	1391	1264	1101	950	809	691
42.5	3401	3227	3017	2714	2411	2036	1697	1369	1097	893
37.5	5542	5278	4913	4430	3948	3353	2670	2016	1500	1160
33.0	7940	7562	7019	6350	5662	4826	3854	2857	1997	1448
29.0	9931	9553	9025	8283	7439	6391	5145	3788	2558	1761
25.5	11425	10996	10530	9835	8982	7763	6309	4684	3173	2045

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**CANDELA TABULATION - (Cont.)**

22.5	13042	12382	11686	10943	10121	8945	7273	5446	3695	2360
19.5	15421	14247	13083	12029	11099	9951	8195	6199	4233	2654
17.0	17991	16331	14468	12970	11876	10623	8933	6801	4648	2905
15.0	20750	18244	15829	13803	12473	11136	9500	7246	4973	3116
13.0	23737	20671	17474	14702	13023	11605	10015	7688	5280	3308
11.0	27589	22906	19058	15593	13549	12055	10411	8097	5562	3482
9.0	31591	26045	20859	16726	14176	12480	10729	8460	5814	3635
7.0	38924	29067	22435	17745	14712	12821	11025	8770	6035	3767
5.0	44748	31608	23653	18542	15117	13082	11292	9027	6223	3883
3.0	48724	33997	24790	19084	15432	13282	11515	9221	6392	4020
1.0	50990	35580	25465	19476	15677	13402	11627	9359	6437	4084
0.0	50974	35806	25598	19567	15765	13439	11664	9398	6460	4116
-1.0	51244	36049	25808	19776	15882	13507	11703	9438	6491	4137
-3.0	49357	34602	25323	19667	15954	13588	11743	9457	6554	4179
-5.0	45681	32026	24097	19090	15764	13571	11731	9431	6498	4143
-7.0	40049	29665	22996	18416	15493	13495	11662	9353	6452	4106
-9.0	33261	26895	21683	17693	15150	13372	11535	9217	6366	4041
-11.0	29486	23863	20181	16812	14745	13207	11347	9025	6239	3950
-13.0	25170	21958	18857	16139	14445	13005	11101	8771	6072	3833
-15.0	22429	19887	17516	15402	14051	12770	10822	8467	5861	3688
-17.0	19915	18235	16314	14706	13629	12323	10503	8144	5616	3516
-19.5	17558	16326	15004	14005	13097	11690	9996	7677	5270	3299
-22.5	15470	14711	13988	13148	12223	10916	9198	7034	4767	3030
-25.5	14115	13666	13069	12193	11241	10037	8336	6342	4253	2726
-29.0	12878	12423	11773	10971	10068	8848	7224	5464	3645	2457
-33.0	11096	10754	10242	9406	8449	7267	5928	4450	3027	2145
-37.5	9009	8616	8056	7325	6553	5604	4509	3384	2451	1873
-42.5	6411	6115	5714	5168	4584	3853	3172	2521	1991	1599
-47.5	4182	3950	3674	3351	2992	2666	2306	1980	1635	1361
-55.0	2222	2154	2061	1960	1858	1727	1581	1411	1235	1074
-65.0	1234	1218	1196	1164	1129	1076	1012	926	827	720
-75.0	676	664	648	629	608	581	546	500	445	388
-85.0	188	184	179	172	166	160	153	142	129	115
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles				
	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	0	0	0	0	0
85.0	11	14	16	6	0
75.0	60	57	50	19	0
65.0	198	143	91	31	0
55.0	390	272	143	43	0
47.5	544	366	186	52	0
42.5	660	431	219	58	0
37.5	805	501	250	63	0
33.0	957	569	278	68	0
29.0	1094	630	306	71	0
25.5	1232	685	329	74	0
22.5	1345	724	347	76	0
19.5	1448	766	365	78	0
17.0	1533	798	378	80	0
15.0	1597	822	388	81	0
13.0	1656	845	398	82	0
11.0	1709	867	406	85	0
9.0	1758	885	414	85	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	1801	902	421	85	0
<b>5.0</b>	1838	917	430	85	0
<b>3.0</b>	1877	932	434	86	0
<b>1.0</b>	1896	942	437	86	0
<b>0.0</b>	1905	947	439	86	0
<b>-1.0</b>	1918	951	441	86	0
<b>-3.0</b>	1944	959	446	87	0
<b>-5.0</b>	1948	962	450	87	0
<b>-7.0</b>	1951	965	449	87	0
<b>-9.0</b>	1938	966	450	88	0
<b>-11.0</b>	1918	964	449	88	0
<b>-13.0</b>	1892	961	448	86	0
<b>-15.0</b>	1860	956	446	85	0
<b>-17.0</b>	1821	948	443	85	0
<b>-19.5</b>	1765	936	437	84	0
<b>-22.5</b>	1704	917	427	82	0
<b>-25.5</b>	1630	897	415	81	0
<b>-29.0</b>	1530	862	399	79	0
<b>-33.0</b>	1421	820	377	76	0
<b>-37.5</b>	1292	766	352	72	0
<b>-42.5</b>	1160	700	320	67	0
<b>-47.5</b>	1031	629	285	61	0
<b>-55.0</b>	823	516	234	52	0
<b>-65.0</b>	557	346	163	38	0
<b>-75.0</b>	300	190	97	24	0
<b>-85.0</b>	92	62	34	8	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 34886.74

Total Field Lumens (one side of beam only) = 20973.24

\* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02
65	0.23	0.47	0.48	0.50	0.53	0.56	0.58	0.59	0.61	0.78
55	1.79	3.59	3.58	3.55	3.52	3.48	3.43	3.36	3.28	3.97
47.5	3.68	7.36	7.29	7.15	6.99	6.77	6.54	6.29	5.98	7.03
42.5	4.71	9.44	9.35	9.17	8.94	8.64	8.31	7.94	7.50	8.73
37.5	8.02	16.00	15.87	15.66	15.33	14.85	14.25	13.54	12.77	14.86
33	10.80	21.46	21.25	20.99	20.58	20.00	19.25	18.34	17.34	20.15
29	12.45	24.73	24.47	24.11	23.62	23.04	22.34	21.49	20.49	23.98
25.5	13.25	26.28	25.95	25.51	24.88	24.12	23.31	22.45	21.47	25.38
22.5	14.15	27.99	27.47	26.75	25.75	24.50	23.31	22.20	21.01	24.73
19.5	18.73	36.85	35.64	34.14	32.37	30.23	28.15	26.17	24.20	27.88
17	21.90	42.76	40.32	37.75	35.09	31.87	28.85	26.04	23.42	26.27
15	24.90	48.80	45.72	41.66	36.75	31.91	27.95	24.41	21.47	23.46
13	37.55	73.47	68.07	59.39	49.59	41.10	34.12	28.54	24.42	26.11
11	59.13 *	114.36 *	102.85 *	86.27 *	69.72	54.99	42.70	33.86	27.79	28.97
9	92.84 *	176.59 *	153.45 *	125.38 *	98.26 *	73.92	54.79	40.62	31.66	32.13
7	143.70 *	268.33 *	227.57 *	179.57 *	134.99 *	98.75 *	69.87	49.51	36.78	35.58
5	218.60 *	406.95 *	333.47 *	252.47 *	181.41 *	126.15 *	86.79 *	59.92	42.27	38.60
3	301.54 *	560.76 *	457.85 *	335.93 *	228.30 *	153.26 *	103.24 *	68.91	46.58	41.24
1	354.93 *	669.56 *	565.50 *	411.70 *	268.64 *	176.39 *	115.03 *	74.66 *	49.57	43.33
0	186.48 *	359.02 *	310.06 *	226.76 *	147.70 *	94.87 *	60.39 *	38.47 *	25.38	22.14
-1	188.21 *	362.69 *	313.22 *	228.78 *	149.04 *	95.58 *	60.70 *	38.60 *	25.48	22.28
	368.21 *	696.29 *	590.85 *	431.29 *	281.69 *	182.19 *	117.45 *	75.64 *	50.14	44.04

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	328.34 *	611.00 *	503.51 *	366.79 *	246.63 *	162.23 *	107.18 *	70.54	47.34	41.96
<b>-5</b>	251.16 *	466.54 *	385.33 *	282.57 *	195.91 *	134.41 *	91.06 *	61.92	43.17	39.34
<b>-7</b>	169.48 *	314.06 *	266.89 *	204.45 *	147.37 *	105.75 *	74.25 *	51.97	38.03	36.61
<b>-9</b>	108.94 *	203.30 *	175.81 *	141.72 *	108.17 *	79.97 *	58.97	43.36	33.23	33.49
<b>-11</b>	68.73 *	130.39 *	116.30 *	96.19 *	76.15 *	59.40	45.96	36.22	29.42	30.68
<b>-13</b>	43.12 *	83.58 *	76.54 *	65.45	53.52	43.97	36.47	30.52	26.19	28.28
<b>-15</b>	27.85	54.90	51.25	45.88	39.68	34.15	29.93	26.46	23.56	26.02
<b>-17</b>	24.23	47.67	45.11	41.89	38.53	34.85	31.65	28.95	26.36	29.78
<b>-19.5</b>	21.07	41.70	40.51	38.88	36.93	34.62	32.35	30.23	28.14	32.56
<b>-22.5</b>	16.69	33.12	32.64	31.89	30.75	29.38	28.05	26.78	25.46	30.07
<b>-25.5</b>	16.48	32.73	32.34	31.77	31.00	30.14	29.26	28.31	27.20	32.23
<b>-29</b>	16.42	32.61	32.25	31.76	31.16	30.48	29.67	28.72	27.61	32.68
<b>-33</b>	15.76	31.31	30.96	30.51	29.90	29.14	28.21	27.16	26.01	30.65
<b>-37.5</b>	13.67	27.20	26.88	26.43	25.85	25.11	24.23	23.22	22.07	25.76
<b>-42.5</b>	9.51	19.01	18.82	18.45	18.00	17.44	16.77	16.00	15.12	17.59
<b>-47.5</b>	8.39	16.84	16.74	16.46	16.11	15.68	15.14	14.49	13.73	16.05
<b>-55</b>	5.68	11.35	11.27	11.15	11.02	10.84	10.62	10.33	10.00	11.98
<b>-65</b>	3.08	6.14	6.10	6.04	5.97	5.89	5.79	5.68	5.55	6.74
<b>-75</b>	1.39	2.77	2.76	2.73	2.70	2.67	2.62	2.57	2.51	3.03
<b>-85</b>	0.15	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.27	0.33
<b>-90</b>										
<b>Total</b>	3235.96	6120.27	5252.57	4075.79	2989.35	2203.59	1649.86	1265.26	1010.59	1047.49

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.04	0.05	0.04
<b>85</b>	0.03	0.05	0.09	0.13	0.20	0.28	0.31	0.48	0.54	0.36
<b>75</b>	0.95	0.96	1.15	1.32	1.47	1.59	1.48	1.90	1.74	0.89
<b>65</b>	4.53	4.25	4.63	4.83	4.86	4.71	3.97	4.60	3.81	1.69
<b>55</b>	7.82	7.09	7.38	7.35	6.97	6.36	5.10	5.64	4.48	1.89

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	9.52	8.41	8.41	7.96	7.16	6.16	4.70	4.98	3.80	1.56
<b>42.5</b>	16.07	14.09	13.92	12.73	10.84	8.72	6.26	6.28	4.56	1.82
<b>37.5</b>	21.80	19.15	18.97	17.27	14.35	10.98	7.39	7.03	4.85	1.87
<b>33</b>	26.17	23.15	23.05	21.11	17.51	13.06	8.36	7.52	4.94	1.86
<b>29</b>	28.12	25.23	25.35	23.40	19.51	14.50	8.98	7.67	4.85	1.78
<b>25.5</b>	27.51	24.97	25.45	23.72	19.90	14.87	9.10	7.48	4.55	1.63
<b>22.5</b>	30.54	27.67	28.51	26.91	22.76	17.12	10.45	8.37	4.89	1.72
<b>19.5</b>	28.02	25.03	25.79	24.61	21.07	15.95	9.72	7.63	4.32	1.50
<b>17</b>	24.34	21.34	21.85	20.98	18.17	13.80	8.42	6.54	3.61	1.24
<b>15</b>	26.36	22.54	22.86	22.06	19.28	14.69	8.98	6.91	3.74	1.28
<b>13</b>	28.50	23.73	23.80	23.02	20.26	15.53	9.49	7.26	3.86	1.31
<b>11</b>	30.81	25.06	24.76	23.85	21.09	16.29	9.96	7.56	3.97	1.34
<b>9</b>	33.17	26.44	25.68	24.57	21.81	16.96	10.36	7.83	4.07	1.36
<b>7</b>	35.14	27.60	26.41	25.18	22.45	17.53	10.72	8.07	4.15	1.39
<b>5</b>	36.71	28.45	26.97	25.67	22.97	18.00	11.05	8.30	4.23	1.41
<b>3</b>	37.88	29.08	27.38	26.01	23.35	18.32	11.27	8.49	4.29	1.43
<b>1</b>	19.22	14.71	13.81	13.09	11.76	9.23	5.68	4.29	2.16	0.72
<b>0</b>	19.35	14.81	13.88	13.13	11.81	9.27	5.71	4.31	2.18	0.72
<b>-1</b>	38.63	29.75	27.92	26.39	23.69	18.63	11.50	8.70	4.39	1.46
<b>-3</b>	37.61	29.41	27.90	26.44	23.70	18.63	11.51	8.73	4.42	1.47
<b>-5</b>	36.08	28.70	27.64	26.35	23.60	18.51	11.41	8.68	4.43	1.47
<b>-7</b>	34.46	27.86	27.25	26.14	23.37	18.31	11.29	8.60	4.43	1.47
<b>-9</b>	32.57	26.88	26.76	25.82	23.01	17.99	11.09	8.46	4.40	1.47
<b>-11</b>	30.71	25.94	26.25	25.41	22.52	17.56	10.82	8.28	4.36	1.47
<b>-13</b>	28.97	25.06	25.72	24.90	21.91	17.01	10.47	8.05	4.31	1.46
<b>-15</b>	27.27	24.12	25.01	24.24	21.23	16.38	10.06	7.78	4.25	1.45
<b>-17</b>	32.01	28.92	30.05	29.05	25.40	19.47	11.91	9.29	5.20	1.80
<b>-19.5</b>	35.92	32.85	34.06	32.74	28.46	21.65	13.22	10.50	6.07	2.12

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	33.52	30.55	31.57	30.14	25.94	19.59	11.93	9.74	5.87	2.07
<b>-25.5</b>	35.83	32.48	33.33	31.47	26.80	20.11	12.32	10.43	6.55	2.34
<b>-29</b>	36.16	32.47	32.82	30.56	25.81	19.35	12.14	10.79	7.05	2.56
<b>-33</b>	33.62	29.80	29.72	27.38	23.00	17.47	11.50	10.82	7.36	2.71
<b>-37.5</b>	28.00	24.66	24.40	22.37	19.01	15.09	10.65	10.58	7.45	2.78
<b>-42.5</b>	19.09	16.79	16.70	15.66	13.96	11.85	8.86	9.20	6.69	2.52
<b>-47.5</b>	17.67	15.90	16.42	16.21	15.27	13.69	10.71	11.49	8.55	3.25
<b>-55</b>	13.61	12.75	13.72	14.09	13.79	12.83	10.38	11.34	8.53	3.28
<b>-65</b>	7.76	7.37	8.04	8.39	8.35	7.87	6.41	7.02	5.30	2.07
<b>-75</b>	3.47	3.29	3.59	3.76	3.75	3.55	2.90	3.20	2.45	1.00
<b>-85</b>	0.37	0.35	0.39	0.41	0.41	0.40	0.33	0.37	0.29	0.12
<b>-90</b>										
<b>Total</b>	1055.92	899.72	899.35	856.83	752.59	589.84	378.86	321.22	196.00	71.12

<b>Vert. Angles</b>	<b>Horizontal Angles</b>		
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>
<b>90</b>			
	0.01	0.00	0.22
<b>85</b>			
	0.12	0.00	2.63
<b>75</b>			
	0.25	0.01	19.03
<b>65</b>			
	0.41	0.01	75.86
<b>55</b>			
	0.42	0.01	125.59
<b>47.5</b>			
	0.34	0.01	145.74
<b>42.5</b>			
	0.39	0.01	236.86
<b>37.5</b>			
	0.39	0.01	314.21
<b>33</b>			
	0.38	0.01	367.83
<b>29</b>			
	0.36	0.01	392.35
<b>25.5</b>			
	0.33	0.01	397.38
<b>22.5</b>			
	0.34	0.01	473.64
<b>19.5</b>			
	0.30	0.01	478.21
<b>17</b>			
	0.24	0.01	467.58

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

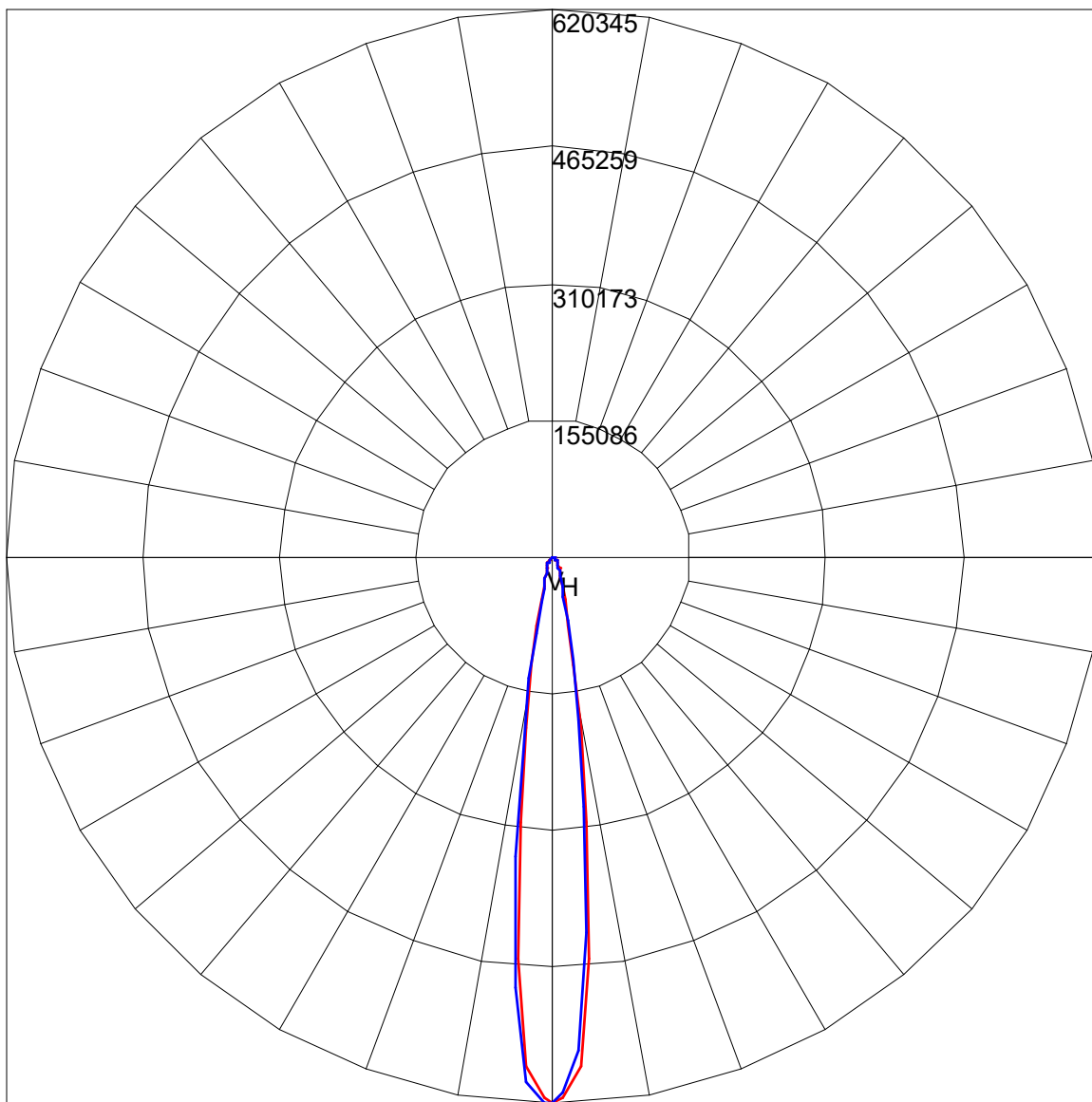
<b>15</b>	0.25	0.01	591.31
<b>13</b>	0.26	0.01	777.65
<b>11</b>	0.26	0.01	1044.61
<b>9</b>	0.27	0.01	1417.18
<b>7</b>	0.27	0.01	1925.52
<b>5</b>	0.27	0.01	2481.65
<b>3</b>	0.28	0.01	2917.09
<b>1</b>	0.14	0.00	1566.08
<b>0</b>	0.14	0.00	1579.93
<b>-1</b>	0.28	0.01	3029.13
<b>-3</b>	0.28	0.01	2675.62
<b>-5</b>	0.28	0.01	2138.55
<b>-7</b>	0.28	0.01	1592.31
<b>-9</b>	0.28	0.01	1165.72
<b>-11</b>	0.28	0.01	863.05
<b>-13</b>	0.28	0.01	655.82
<b>-15</b>	0.28	0.01	521.75
<b>-17</b>	0.35	0.01	542.48
<b>-19.5</b>	0.41	0.01	555.00
<b>-22.5</b>	0.40	0.01	486.17
<b>-25.5</b>	0.45	0.01	503.59
<b>-29</b>	0.49	0.01	503.58
<b>-33</b>	0.52	0.01	473.52
<b>-37.5</b>	0.54	0.01	405.95
<b>-42.5</b>	0.48	0.01	288.54
<b>-47.5</b>	0.63	0.01	279.43
<b>-55</b>	0.64	0.01	219.21
<b>-65</b>	0.43	0.01	125.98

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

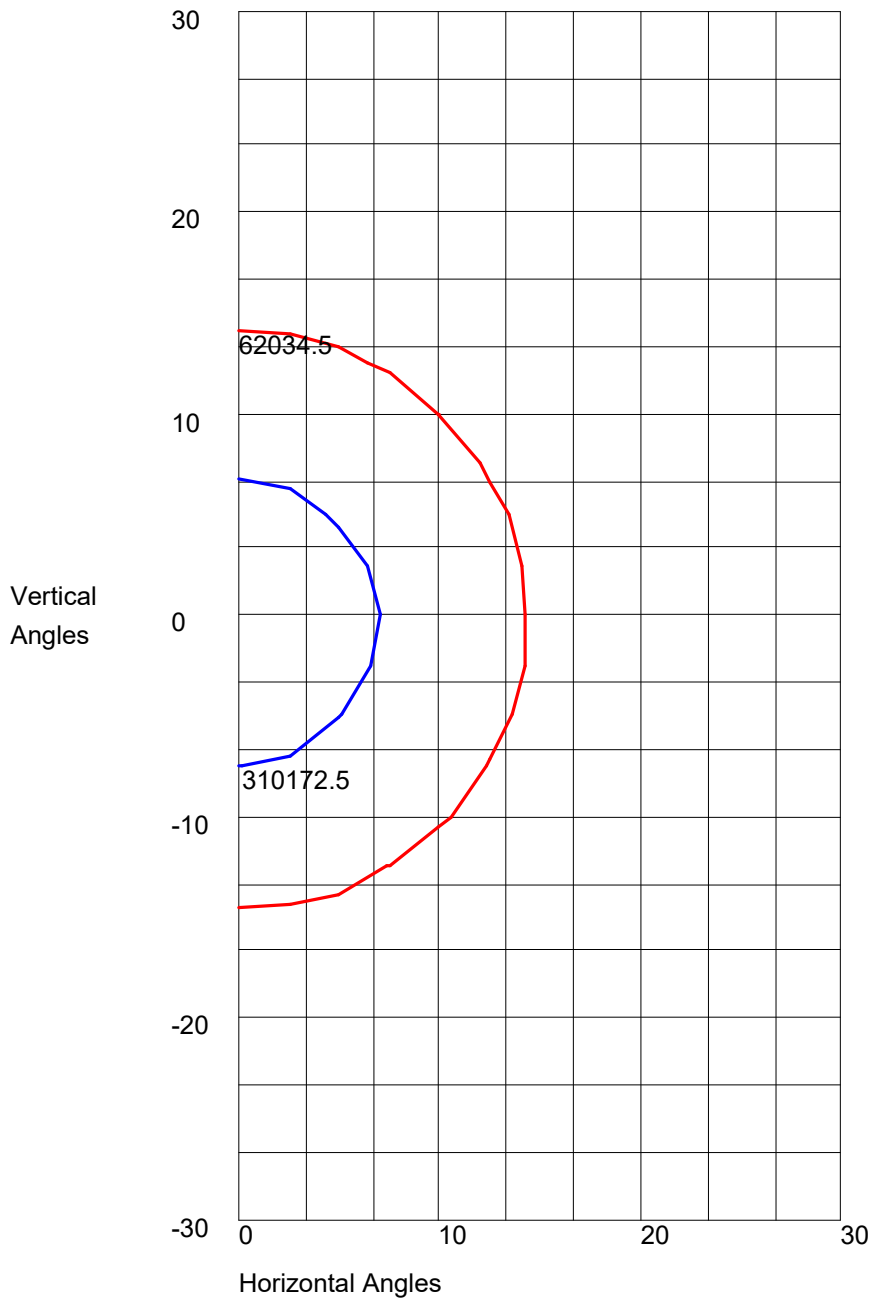
<b>-75</b>	0.22	0.01	56.92
<b>-85</b>	0.03	0.00	6.24
<b>-90</b>			
<b>Total</b>	14.25	0.32	34886.76

AXIAL CANDELA DISPLAY



Maximum Candela = 620345 Located At Horizontal Angle = 0, Vertical Angle = -1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 620345 Located At Horizontal Angle = 0, Vertical Angle = -1  
50% Maximum Candela = 310172.5  
10% Maximum Candela = 62034.5