



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-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-40-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] 4000

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

### CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	614869
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	21320
Beam Efficiency	N.A.
Field Lumens	41576
Field Efficiency	N.A.
Spill Lumens	27581
Luminaire Lumens	69157
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	85	85	0
75	435	75	0
65	939	65	146
55	1888	55	1015
47.5	4080	47.5	2173
42.5	6403	42.5	3951
37.5	9315	37.5	6486
33	11561	33	9147
29	13321	29	11151
25.5	15626	25.5	13558
22.5	19394	22.5	17238
19.5	25372	19.5	23521
17	35490	17	33557
15	50524	15	47252
13	78851	13	74691
11	124445	11	117778
9	195601	9	185095
7	301683	7	284783
5	453121	5	424539
3	574143	3	555177
1	609883	1	603258
0	613539	0	613539
-1	609883	-1	614869
-3	574143	-3	590971
-5	453121	-5	487401
-7	301683	-7	340379
-9	195601	-9	221886
-11	124445	-11	139084
-13	78851	-13	87878
-15	50524	-15	52909
-17	35490	-17	37007
-19.5	25372	-19.5	25889
-22.5	19394	-22.5	19815
-25.5	15626	-25.5	16464
-29	13321	-29	14230
-33	11561	-33	12522
-37.5	9315	-37.5	10306
-42.5	6403	-42.5	7510
-47.5	4080	-47.5	4867
-55	1888	-55	2407
-65	939	-65	1293
-75	435	-75	711
-85	85	-85	194
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 614869

Beam Edge = 307434.5 Cd (50% of Max.)

Field Edge = 61486.9 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	49	56	60	52	46	36	24	19
<b>65.0</b>	0	31	90	142	196	218	227	231	230	228
<b>55.0</b>	0	43	141	269	387	475	541	599	660	718
<b>47.5</b>	0	52	184	363	539	685	802	942	1092	1253
<b>42.5</b>	0	57	216	427	654	885	1088	1357	1682	2018
<b>37.5</b>	0	63	248	497	798	1150	1487	1999	2647	3324
<b>33.0</b>	0	67	275	563	948	1435	1979	2832	3820	4783
<b>29.0</b>	0	70	303	624	1085	1745	2536	3754	5100	6334
<b>25.5</b>	0	73	326	678	1221	2027	3146	4643	6254	7695
<b>22.5</b>	0	75	344	718	1334	2339	3663	5398	7209	8866
<b>19.5</b>	0	77	361	759	1435	2631	4196	6144	8123	9863
<b>17.0</b>	0	79	375	791	1520	2880	4607	6741	8854	10529
<b>15.0</b>	0	80	385	815	1583	3088	4929	7182	9416	11037
<b>13.0</b>	0	81	394	838	1641	3279	5234	7620	9927	11502
<b>11.0</b>	0	84	402	859	1695	3451	5513	8026	10319	11949
<b>9.0</b>	0	84	410	877	1743	3602	5762	8386	10634	12369
<b>7.0</b>	0	84	417	894	1785	3734	5981	8693	10927	12707
<b>5.0</b>	0	84	426	909	1822	3849	6168	8947	11192	12967
<b>3.0</b>	0	85	430	924	1860	3985	6336	9139	11413	13165
<b>1.0</b>	0	85	433	934	1879	4048	6381	9276	11524	13284
<b>0.0</b>	0	85	435	939	1888	4080	6403	9315	11561	13321
<b>-1.0</b>	0	85	437	943	1901	4101	6434	9355	11600	13388
<b>-3.0</b>	0	86	442	951	1927	4142	6496	9374	11639	13468
<b>-5.0</b>	0	86	446	953	1930	4106	6441	9348	11627	13451
<b>-7.0</b>	0	86	445	956	1933	4070	6396	9270	11559	13375
<b>-9.0</b>	0	87	446	957	1921	4006	6310	9136	11433	13254
<b>-11.0</b>	0	87	445	956	1901	3916	6184	8945	11247	13091
<b>-13.0</b>	0	85	444	953	1875	3799	6018	8693	11003	12891
<b>-15.0</b>	0	84	442	947	1843	3655	5809	8392	10726	12657
<b>-17.0</b>	0	84	439	940	1805	3485	5566	8072	10410	12214
<b>-19.5</b>	0	83	434	927	1749	3270	5224	7609	9908	11586
<b>-22.5</b>	0	82	424	908	1689	3003	4725	6971	9117	10820
<b>-25.5</b>	0	80	412	889	1615	2702	4216	6286	8263	9949
<b>-29.0</b>	0	78	396	854	1516	2435	3613	5416	7161	8770
<b>-33.0</b>	0	75	374	813	1408	2127	3000	4411	5876	7203
<b>-37.5</b>	0	71	349	760	1280	1856	2430	3354	4469	5555
<b>-42.5</b>	0	66	318	694	1150	1585	1973	2499	3144	3819
<b>-47.5</b>	0	61	282	624	1021	1349	1620	1962	2285	2643
<b>-55.0</b>	0	52	232	511	815	1064	1224	1398	1567	1712
<b>-65.0</b>	0	38	161	343	552	714	820	918	1003	1066
<b>-75.0</b>	0	24	96	188	298	385	441	495	541	576
<b>-85.0</b>	0	8	33	61	91	114	128	141	151	158
<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	221	215	213	207	200	193	187	180	170	159
55.0	767	816	863	895	919	942	960	976	991	1004
47.5	1379	1528	1639	1744	1842	1919	1979	2050	2105	2142
42.5	2389	2691	2991	3199	3371	3523	3643	3752	3844	3906
37.5	3913	4391	4869	5231	5493	5778	6020	6213	6339	6407
33.0	5612	6294	6957	7495	7870	8201	8466	8667	8828	8951
29.0	7373	8210	8945	9469	9844	10122	10364	10562	10745	10917
25.5	8903	9748	10437	10899	11324	11734	12094	12526	12883	13141
22.5	10031	10847	11582	12273	12927	13640	14236	15122	15878	16453
19.5	11001	11923	12967	14121	15284	16648	17909	19322	20586	21559
17.0	11771	12855	14340	16187	17832	20085	22129	24895	27442	29214
15.0	12363	13681	15690	18083	20567	23389	27376	31041	37367	42293
13.0	12908	14572	17319	20488	23527	28214	34544	42830	51698	62967 *
11.0	13429	15455	18890	22704	27346	34450	44825	59497	75082 *	92514 *
9.0	14051	16578	20675	25815	31312	43115	59883	80050 *	108257 *	134388 *
7.0	14581	17588	22237	28810	38581	53018	76411 *	109949 *	145312 *	199581 *
5.0	14983	18378	23444	31329	44353	65000 *	94306 *	136151 *	204695 *	276467 *
3.0	15296	18916	24571	33697	48294	73435 *	110717 *	165244 *	244085 *	373874 *
1.0	15538	19304	25240	35266	50540	78114 *	120402 *	186474 *	286944 *	442145 *
0.0	15626	19394	25372	35490	50524	78851 *	124445 *	195601 *	301683 *	453121 *
-1.0	15742	19601	25580	35731	50792	78757 *	121840 *	189738 *	292476 *	449823 *
-3.0	15813	19493	25099	34297	48922	75199 *	114941 *	175461 *	267943 *	400889 *
-5.0	15624	18922	23885	31743	45278	67170 *	99259 *	146367 *	220644 *	310617 *
-7.0	15356	18253	22793	29403	39695	55498	81005 *	117478 *	159259 *	234036 *
-9.0	15016	17536	21492	26657	32967	46122	64383 *	86549 *	120953 *	154696 *
-11.0	14615	16663	20003	23653	29226	37089	48578	64725 *	83229 *	104830 *
-13.0	14317	15997	18691	21764	24948	30201	37023	45947	56334	70337 *
-15.0	13927	15266	17362	19712	22232	24975	29141	33162	40432	47057
-17.0	13508	14576	16170	18074	19739	21796	23666	26862	29937	32696
-19.5	12981	13881	14871	16182	17403	18733	20038	21556	22941	24079
-22.5	12115	13032	13864	14581	15333	16125	16861	17796	18606	19192
-25.5	11142	12085	12954	13545	13991	14419	14798	15262	15708	16047
-29.0	9979	10874	11668	12313	12764	13085	13328	13529	13716	13922
-33.0	8375	9323	10152	10659	10998	11314	11627	11879	12078	12240
-37.5	6495	7261	7985	8541	8929	9247	9525	9762	9954	10096
-42.5	4543	5122	5663	6061	6354	6620	6850	7047	7208	7330
-47.5	2965	3322	3642	3915	4145	4343	4509	4647	4759	4845
-55.0	1842	1943	2043	2135	2203	2265	2311	2344	2369	2386
-65.0	1119	1154	1185	1208	1223	1237	1250	1261	1269	1275
-75.0	603	623	643	658	670	680	688	695	701	709
-85.0	164	171	177	182	186	187	191	190	190	189
-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	155	149	146	149	155	159	170	180	187	193

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**CANDELA TABULATION - (Cont.)**

55.0	1018	1016	1015	1016	1018	1004	991	976	960	942
47.5	2183	2176	2173	2176	2183	2142	2105	2050	1979	1919
42.5	3975	3959	3951	3959	3975	3906	3844	3752	3643	3523
37.5	6424	6484	6486	6484	6424	6407	6339	6213	6020	5778
33.0	9024	9118	9147	9118	9024	8951	8828	8667	8466	8201
29.0	11012	11111	11151	11111	11012	10917	10745	10562	10364	10122
25.5	13297	13469	13558	13469	13297	13141	12883	12526	12094	11734
22.5	16838	17145	17238	17145	16838	16453	15878	15122	14236	13640
19.5	22643	23368	23521	23368	22643	21559	20586	19322	17909	16648
17.0	31797	33568	33557	33568	31797	29214	27442	24895	22129	20085
15.0	45833	47678	47252	47678	45833	42293	37367	31041	27376	23389
13.0	70930 *	74784 *	74691 *	74784 *	70930 *	62967 *	51698	42830	34544	28214
11.0	109065 *	117569 *	117778 *	117569 *	109065 *	92514 *	75082 *	59497	44825	34450
9.0	164569 *	183775 *	185095 *	183775 *	164569 *	134388 *	108257 *	80050 *	59883	43115
7.0	243793 *	281546 *	284783 *	281546 *	243793 *	199581 *	145312 *	109949 *	76411 *	53018
5.0	367933 *	431764 *	424539 *	431764 *	367933 *	276467 *	204695 *	136151 *	94306 *	65000 *
3.0	475193 *	550945 *	555177 *	550945 *	475193 *	373874 *	244085 *	165244 *	110717 *	73435 *
1.0	553406 *	600512 *	603258 *	600512 *	553406 *	442145 *	286944 *	186474 *	120402 *	78114 *
0.0	574143 *	609883 *	613539 *	609883 *	574143 *	453121 *	301683 *	195601 *	124445 *	78851 *
-1.0	566329 *	611491 *	614869 *	611491 *	566329 *	449823 *	292476 *	189738 *	121840 *	78757 *
-3.0	510283 *	578987 *	590971 *	578987 *	510283 *	400889 *	267943 *	175461 *	114941 *	75199 *
-5.0	420642 *	479489 *	487401 *	479489 *	420642 *	310617 *	220644 *	146367 *	99259 *	67170 *
-7.0	291631 *	327266 *	340379 *	327266 *	291631 *	234036 *	159259 *	117478 *	81005 *	55498
-9.0	190207 *	213472 *	221886 *	213472 *	190207 *	154696 *	120953 *	86549 *	64383 *	46122
-11.0	123742 *	134515 *	139084 *	134515 *	123742 *	104830 *	83229 *	64725 *	48578	37089
-13.0	80464 *	85839 *	87878 *	85839 *	80464 *	70337 *	56334	45947	37023	30201
-15.0	51819	54029	52909	54029	51819	47057	40432	33162	29141	24975
-17.0	35612	37292	37007	37292	35612	32696	29937	26862	23666	21796
-19.5	25317	25953	25889	25953	25317	24079	22941	21556	20038	18733
-22.5	19507	19749	19815	19749	19507	19192	18606	17796	16861	16125
-25.5	16240	16395	16464	16395	16240	16047	15708	15262	14798	14419
-29.0	14071	14188	14230	14188	14071	13922	13716	13529	13328	13085
-33.0	12359	12478	12522	12478	12359	12240	12078	11879	11627	11314
-37.5	10186	10285	10306	10285	10186	10096	9954	9762	9525	9247
-42.5	7463	7494	7510	7494	7463	7330	7208	7047	6850	6620
-47.5	4921	4885	4867	4885	4921	4845	4759	4647	4509	4343
-55.0	2407	2407	2407	2407	2407	2386	2369	2344	2311	2265
-65.0	1285	1290	1293	1290	1285	1275	1269	1261	1250	1237
-75.0	710	711	711	711	710	709	701	695	688	680
-85.0	191	193	194	193	191	189	190	190	191	187
-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	36	46	52
65.0	200	207	213	215	221	228	230	231	227	218
55.0	919	895	863	816	767	718	660	599	541	475
47.5	1842	1744	1639	1528	1379	1253	1092	942	802	685
42.5	3371	3199	2991	2691	2389	2018	1682	1357	1088	885
37.5	5493	5231	4869	4391	3913	3324	2647	1999	1487	1150
33.0	7870	7495	6957	6294	5612	4783	3820	2832	1979	1435
29.0	9844	9469	8945	8210	7373	6334	5100	3754	2536	1745
25.5	11324	10899	10437	9748	8903	7695	6254	4643	3146	2027

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**CANDELA TABULATION - (Cont.)**

22.5	12927	12273	11582	10847	10031	8866	7209	5398	3663	2339
19.5	15284	14121	12967	11923	11001	9863	8123	6144	4196	2631
17.0	17832	16187	14340	12855	11771	10529	8854	6741	4607	2880
15.0	20567	18083	15690	13681	12363	11037	9416	7182	4929	3088
13.0	23527	20488	17319	14572	12908	11502	9927	7620	5234	3279
11.0	27346	22704	18890	15455	13429	11949	10319	8026	5513	3451
9.0	31312	25815	20675	16578	14051	12369	10634	8386	5762	3602
7.0	38581	28810	22237	17588	14581	12707	10927	8693	5981	3734
5.0	44353	31329	23444	18378	14983	12967	11192	8947	6168	3849
3.0	48294	33697	24571	18916	15296	13165	11413	9139	6336	3985
1.0	50540	35266	25240	19304	15538	13284	11524	9276	6381	4048
0.0	50524	35490	25372	19394	15626	13321	11561	9315	6403	4080
-1.0	50792	35731	25580	19601	15742	13388	11600	9355	6434	4101
-3.0	48922	34297	25099	19493	15813	13468	11639	9374	6496	4142
-5.0	45278	31743	23885	18922	15624	13451	11627	9348	6441	4106
-7.0	39695	29403	22793	18253	15356	13375	11559	9270	6396	4070
-9.0	32967	26657	21492	17536	15016	13254	11433	9136	6310	4006
-11.0	29226	23653	20003	16663	14615	13091	11247	8945	6184	3916
-13.0	24948	21764	18691	15997	14317	12891	11003	8693	6018	3799
-15.0	22232	19712	17362	15266	13927	12657	10726	8392	5809	3655
-17.0	19739	18074	16170	14576	13508	12214	10410	8072	5566	3485
-19.5	17403	16182	14871	13881	12981	11586	9908	7609	5224	3270
-22.5	15333	14581	13864	13032	12115	10820	9117	6971	4725	3003
-25.5	13991	13545	12954	12085	11142	9949	8263	6286	4216	2702
-29.0	12764	12313	11668	10874	9979	8770	7161	5416	3613	2435
-33.0	10998	10659	10152	9323	8375	7203	5876	4411	3000	2127
-37.5	8929	8541	7985	7261	6495	5555	4469	3354	2430	1856
-42.5	6354	6061	5663	5122	4543	3819	3144	2499	1973	1585
-47.5	4145	3915	3642	3322	2965	2643	2285	1962	1620	1349
-55.0	2203	2135	2043	1943	1842	1712	1567	1398	1224	1064
-65.0	1223	1208	1185	1154	1119	1066	1003	918	820	714
-75.0	670	658	643	623	603	576	541	495	441	385
-85.0	186	182	177	171	164	158	151	141	128	114
-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	56	49	19	0
65.0	196	142	90	31	0
55.0	387	269	141	43	0
47.5	539	363	184	52	0
42.5	654	427	216	57	0
37.5	798	497	248	63	0
33.0	948	563	275	67	0
29.0	1085	624	303	70	0
25.5	1221	678	326	73	0
22.5	1334	718	344	75	0
19.5	1435	759	361	77	0
17.0	1520	791	375	79	0
15.0	1583	815	385	80	0
13.0	1641	838	394	81	0
11.0	1695	859	402	84	0
9.0	1743	877	410	84	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	1785	894	417	84	0
<b>5.0</b>	1822	909	426	84	0
<b>3.0</b>	1860	924	430	85	0
<b>1.0</b>	1879	934	433	85	0
<b>0.0</b>	1888	939	435	85	0
<b>-1.0</b>	1901	943	437	85	0
<b>-3.0</b>	1927	951	442	86	0
<b>-5.0</b>	1930	953	446	86	0
<b>-7.0</b>	1933	956	445	86	0
<b>-9.0</b>	1921	957	446	87	0
<b>-11.0</b>	1901	956	445	87	0
<b>-13.0</b>	1875	953	444	85	0
<b>-15.0</b>	1843	947	442	84	0
<b>-17.0</b>	1805	940	439	84	0
<b>-19.5</b>	1749	927	434	83	0
<b>-22.5</b>	1689	908	424	82	0
<b>-25.5</b>	1615	889	412	80	0
<b>-29.0</b>	1516	854	396	78	0
<b>-33.0</b>	1408	813	374	75	0
<b>-37.5</b>	1280	760	349	71	0
<b>-42.5</b>	1150	694	318	66	0
<b>-47.5</b>	1021	624	282	61	0
<b>-55.0</b>	815	511	232	52	0
<b>-65.0</b>	552	343	161	38	0
<b>-75.0</b>	298	188	96	24	0
<b>-85.0</b>	91	61	33	8	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 34578.7

Total Field Lumens (one side of beam only) = 20788.09

\* 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	0.22	0.46	0.48	0.50	0.53	0.55	0.57	0.59	0.60	0.78
55	1.77	3.56	3.55	3.52	3.49	3.45	3.40	3.33	3.25	3.94
47.5	3.64	7.30	7.23	7.09	6.92	6.71	6.48	6.23	5.93	6.97
42.5	4.67	9.36	9.27	9.09	8.86	8.57	8.24	7.87	7.43	8.65
37.5	7.95	15.86	15.73	15.52	15.19	14.72	14.13	13.42	12.66	14.73
33	10.70	21.27	21.06	20.81	20.39	19.82	19.08	18.18	17.19	19.97
29	12.34	24.51	24.25	23.90	23.41	22.83	22.14	21.30	20.31	23.77
25.5	13.14	26.04	25.72	25.28	24.66	23.91	23.11	22.25	21.28	25.15
22.5	14.03	27.74	27.22	26.52	25.52	24.29	23.11	22.00	20.83	24.51
19.5	18.57	36.53	35.32	33.84	32.08	29.96	27.90	25.93	23.98	27.63
17	21.71	42.38	39.96	37.41	34.78	31.59	28.59	25.81	23.21	26.04
15	24.68	48.36	45.32	41.29	36.42	31.63	27.70	24.20	21.28	23.25
13	37.22	72.82	67.46	58.87	49.15	40.73	33.82	28.28	24.20	25.88
11	58.61 *	113.35 *	101.94 *	85.51 *	69.11	54.50	42.32	33.56	27.54	28.71
9	92.02 *	175.03 *	152.09 *	124.28 *	97.39 *	73.27	54.31	40.26	31.38	31.85
7	142.43 *	265.96 *	225.56 *	177.98 *	133.80 *	97.88 *	69.25	49.07	36.46	35.27
5	216.67 *	403.36 *	330.53 *	250.24 *	179.81 *	125.03 *	86.03 *	59.39	41.89	38.26
3	298.88 *	555.81 *	453.80 *	332.96 *	226.28 *	151.91 *	102.33 *	68.30	46.17	40.87
1	351.80 *	663.64 *	560.51 *	408.07 *	266.27 *	174.84 *	114.01 *	74.00 *	49.13	42.95
0	184.83 *	355.85 *	307.33 *	224.76 *	146.40 *	94.03 *	59.86 *	38.13 *	25.15	21.94
-1	186.55 *	359.49 *	310.46 *	226.76 *	147.73 *	94.74 *	60.17 *	38.26 *	25.26	22.09
	364.96 *	690.14 *	585.64 *	427.48 *	279.20 *	180.58 *	116.42 *	74.97 *	49.70	43.65

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	325.44 *	605.61 *	499.07 *	363.55 *	244.45 *	160.79 *	106.24 *	69.92	46.92	41.59
<b>-5</b>	248.94 *	462.42 *	381.93 *	280.08 *	194.18 *	133.22 *	90.26 *	61.37	42.78	38.99
<b>-7</b>	167.99 *	311.29 *	264.53 *	202.65 *	146.06 *	104.82 *	73.59 *	51.51	37.69	36.28
<b>-9</b>	107.97 *	201.50 *	174.26 *	140.47 *	107.22 *	79.26 *	58.45	42.97	32.94	33.20
<b>-11</b>	68.13 *	129.24 *	115.28 *	95.34 *	75.48 *	58.88	45.55	35.90	29.16	30.41
<b>-13</b>	42.74 *	82.85 *	75.87 *	64.88	53.05	43.58	36.15	30.25	25.96	28.03
<b>-15</b>	27.60	54.42	50.80	45.48	39.33	33.85	29.67	26.23	23.35	25.79
<b>-17</b>	24.01	47.25	44.71	41.52	38.19	34.54	31.37	28.69	26.13	29.51
<b>-19.5</b>	20.88	41.34	40.15	38.54	36.60	34.31	32.07	29.97	27.89	32.27
<b>-22.5</b>	16.55	32.83	32.35	31.60	30.48	29.12	27.80	26.54	25.23	29.80
<b>-25.5</b>	16.33	32.44	32.05	31.49	30.73	29.88	29.01	28.06	26.96	31.94
<b>-29</b>	16.27	32.33	31.96	31.48	30.89	30.22	29.41	28.47	27.37	32.39
<b>-33</b>	15.62	31.03	30.68	30.24	29.64	28.88	27.96	26.92	25.78	30.38
<b>-37.5</b>	13.55	26.96	26.64	26.19	25.62	24.89	24.02	23.02	21.88	25.54
<b>-42.5</b>	9.43	18.85	18.66	18.28	17.84	17.29	16.63	15.86	14.99	17.43
<b>-47.5</b>	8.32	16.69	16.59	16.31	15.97	15.54	15.00	14.36	13.61	15.91
<b>-55</b>	5.63	11.25	11.17	11.06	10.92	10.75	10.52	10.24	9.91	11.88
<b>-65</b>	3.05	6.08	6.05	5.99	5.92	5.84	5.74	5.63	5.50	6.68
<b>-75</b>	1.38	2.75	2.73	2.71	2.68	2.65	2.60	2.55	2.48	3.00
<b>-85</b>	0.15	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.27	0.32
<b>-90</b>										
<b>Total</b>	3207.4	6066.25	5206.21	4039.81	2962.96	2184.14	1635.3	1254.09	1001.67	1038.25

**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	0.19	0.28	0.31	0.47	0.54	0.35
<b>75</b>	0.94	0.95	1.14	1.31	1.46	1.57	1.46	1.88	1.73	0.88
<b>65</b>	4.49	4.21	4.58	4.79	4.81	4.66	3.93	4.56	3.78	1.67
<b>55</b>	7.75	7.03	7.32	7.29	6.91	6.31	5.05	5.59	4.44	1.87

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	9.44	8.33	8.34	7.89	7.10	6.11	4.66	4.94	3.77	1.55
<b>42.5</b>	15.93	13.97	13.79	12.62	10.75	8.65	6.20	6.23	4.52	1.81
<b>37.5</b>	21.60	18.98	18.80	17.12	14.22	10.89	7.33	6.96	4.80	1.85
<b>33</b>	25.94	22.95	22.84	20.92	17.35	12.95	8.28	7.45	4.90	1.84
<b>29</b>	27.87	25.00	25.13	23.19	19.34	14.37	8.91	7.60	4.80	1.76
<b>25.5</b>	27.26	24.75	25.23	23.51	19.73	14.74	9.02	7.42	4.51	1.61
<b>22.5</b>	30.27	27.42	28.26	26.68	22.56	16.97	10.36	8.29	4.84	1.70
<b>19.5</b>	27.77	24.81	25.57	24.39	20.89	15.81	9.63	7.56	4.28	1.49
<b>17</b>	24.13	21.15	21.65	20.80	18.01	13.68	8.35	6.48	3.58	1.23
<b>15</b>	26.13	22.34	22.65	21.87	19.11	14.56	8.90	6.85	3.71	1.27
<b>13</b>	28.25	23.52	23.59	22.81	20.08	15.39	9.41	7.19	3.83	1.30
<b>11</b>	30.54	24.84	24.54	23.64	20.91	16.15	9.87	7.50	3.94	1.33
<b>9</b>	32.88	26.21	25.45	24.35	21.62	16.81	10.27	7.76	4.03	1.35
<b>7</b>	34.82	27.35	26.17	24.95	22.25	17.37	10.62	8.00	4.11	1.38
<b>5</b>	36.39	28.20	26.73	25.45	22.77	17.84	10.95	8.23	4.19	1.40
<b>3</b>	37.55	28.82	27.14	25.78	23.14	18.16	11.17	8.41	4.26	1.42
<b>1</b>	19.05	14.58	13.69	12.97	11.66	9.15	5.63	4.25	2.14	0.71
<b>0</b>	19.18	14.68	13.76	13.02	11.70	9.19	5.66	4.28	2.16	0.72
<b>-1</b>	38.29	29.49	27.68	26.16	23.48	18.46	11.40	8.62	4.35	1.44
<b>-3</b>	37.28	29.15	27.65	26.20	23.50	18.46	11.40	8.65	4.38	1.45
<b>-5</b>	35.77	28.45	27.39	26.11	23.39	18.34	11.31	8.60	4.39	1.46
<b>-7</b>	34.15	27.61	27.01	25.91	23.17	18.14	11.19	8.52	4.39	1.46
<b>-9</b>	32.29	26.64	26.52	25.60	22.81	17.83	10.99	8.39	4.36	1.46
<b>-11</b>	30.43	25.71	26.02	25.18	22.32	17.40	10.72	8.21	4.32	1.46
<b>-13</b>	28.71	24.84	25.49	24.68	21.72	16.86	10.38	7.98	4.27	1.45
<b>-15</b>	27.03	23.91	24.78	24.02	21.04	16.24	9.97	7.71	4.21	1.44
<b>-17</b>	31.72	28.67	29.79	28.79	25.18	19.30	11.81	9.21	5.15	1.78
<b>-19.5</b>	35.60	32.56	33.76	32.45	28.21	21.46	13.10	10.41	6.02	2.10

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	33.23	30.29	31.29	29.88	25.72	19.42	11.83	9.66	5.82	2.05
<b>-25.5</b>	35.52	32.20	33.04	31.20	26.56	19.93	12.21	10.34	6.49	2.32
<b>-29</b>	35.84	32.18	32.53	30.29	25.59	19.18	12.03	10.70	6.98	2.54
<b>-33</b>	33.32	29.54	29.46	27.14	22.80	17.31	11.40	10.72	7.29	2.69
<b>-37.5</b>	27.76	24.44	24.18	22.17	18.84	14.95	10.56	10.49	7.39	2.76
<b>-42.5</b>	18.93	16.64	16.55	15.52	13.84	11.74	8.78	9.12	6.63	2.49
<b>-47.5</b>	17.51	15.76	16.28	16.07	15.13	13.57	10.61	11.38	8.47	3.22
<b>-55</b>	13.49	12.64	13.60	13.96	13.67	12.71	10.29	11.24	8.45	3.24
<b>-65</b>	7.69	7.30	7.97	8.32	8.27	7.80	6.35	6.96	5.25	2.05
<b>-75</b>	3.44	3.26	3.56	3.72	3.72	3.51	2.87	3.17	2.43	0.98
<b>-85</b>	0.37	0.35	0.38	0.40	0.41	0.39	0.33	0.37	0.29	0.12
<b>-90</b>										
<b>Total</b>	1046.6	891.77	891.40	849.27	745.94	584.63	375.52	318.37	194.25	70.47

<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	2.61
<b>75</b>			
	0.25	0.01	18.85
<b>65</b>			
	0.40	0.01	75.18
<b>55</b>			
	0.42	0.01	124.49
<b>47.5</b>			
	0.34	0.01	144.47
<b>42.5</b>			
	0.39	0.01	234.78
<b>37.5</b>			
	0.39	0.01	311.44
<b>33</b>			
	0.38	0.01	364.57
<b>29</b>			
	0.36	0.01	388.88
<b>25.5</b>			
	0.32	0.01	393.88
<b>22.5</b>			
	0.34	0.01	469.46
<b>19.5</b>			
	0.29	0.01	473.98
<b>17</b>			
	0.24	0.01	463.45

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

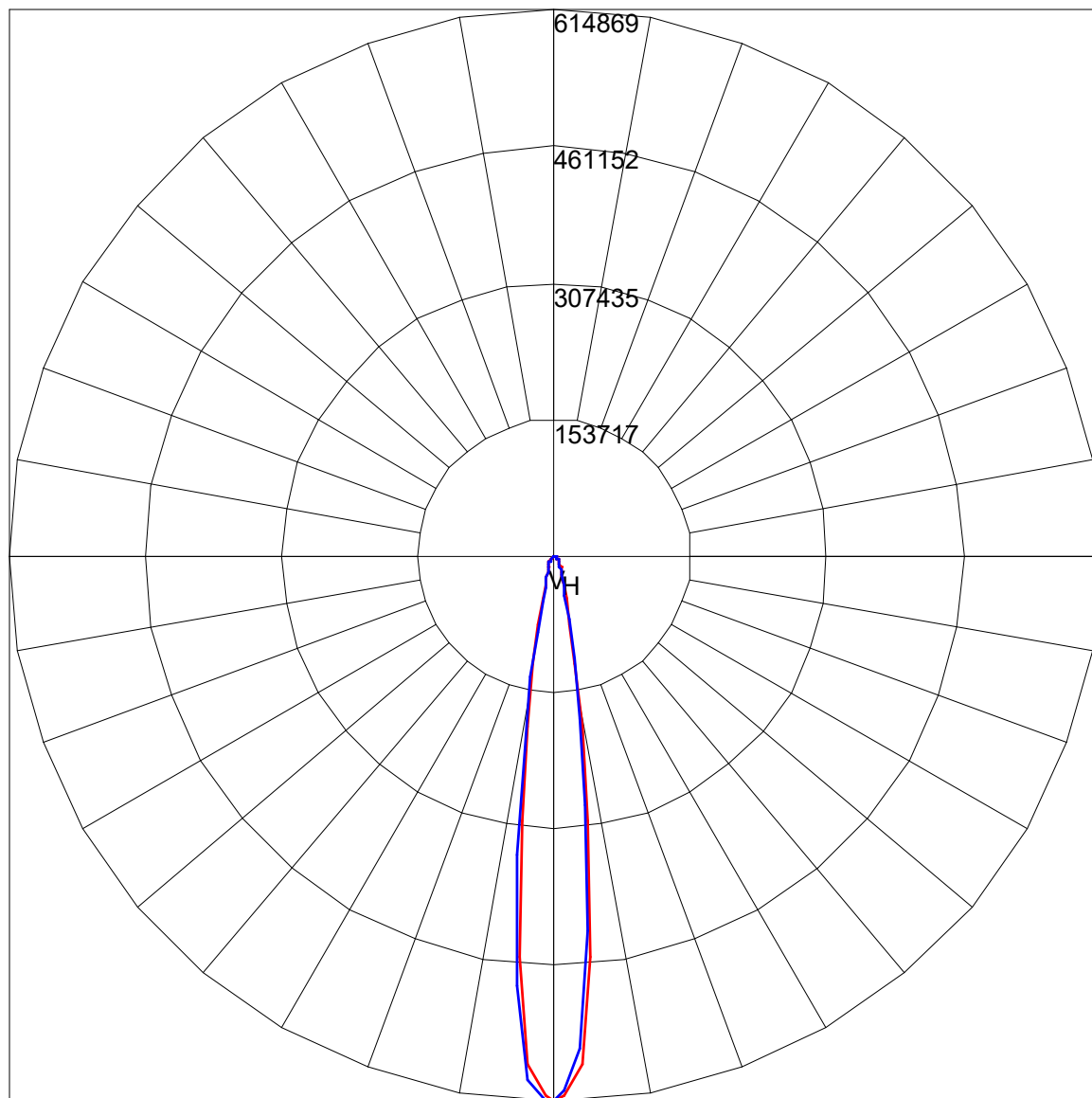
<b>15</b>	0.25	0.01	586.09
<b>13</b>	0.25	0.01	770.78
<b>11</b>	0.26	0.01	1035.39
<b>9</b>	0.26	0.01	1404.67
<b>7</b>	0.27	0.01	1908.52
<b>5</b>	0.27	0.01	2459.74
<b>3</b>	0.27	0.01	2891.34
<b>1</b>	0.14	0.00	1552.26
<b>0</b>	0.14	0.00	1565.99
<b>-1</b>	0.28	0.01	3002.39
<b>-3</b>	0.28	0.01	2652.00
<b>-5</b>	0.28	0.01	2119.66
<b>-7</b>	0.28	0.01	1578.25
<b>-9</b>	0.28	0.01	1155.43
<b>-11</b>	0.28	0.01	855.44
<b>-13</b>	0.28	0.01	650.03
<b>-15</b>	0.28	0.01	517.14
<b>-17</b>	0.34	0.01	537.69
<b>-19.5</b>	0.41	0.01	550.10
<b>-22.5</b>	0.40	0.01	481.88
<b>-25.5</b>	0.45	0.01	499.15
<b>-29</b>	0.49	0.01	499.14
<b>-33</b>	0.52	0.01	469.35
<b>-37.5</b>	0.53	0.01	402.37
<b>-42.5</b>	0.48	0.01	285.99
<b>-47.5</b>	0.62	0.01	276.96
<b>-55</b>	0.64	0.01	217.27
<b>-65</b>	0.42	0.01	124.88

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

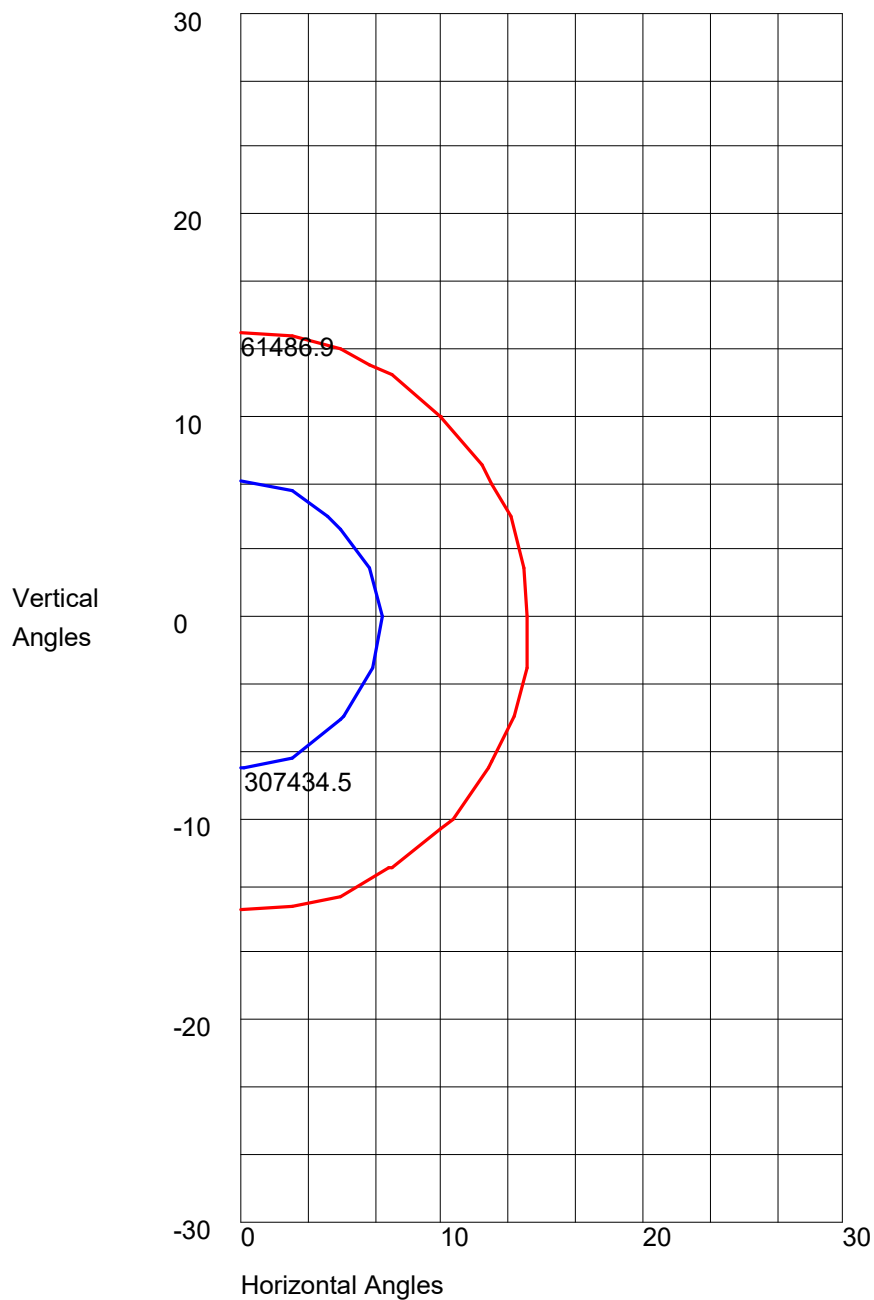
<b>-75</b>	0.21	0.01	56.41
<b>-85</b>	0.03	0.00	6.18
<b>-90</b>			
<b>Total</b>	14.12	0.32	34578.74

AXIAL CANDELA DISPLAY



Maximum Candela = 614869 Located At Horizontal Angle = 0, Vertical Angle = -1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 614869 Located At Horizontal Angle = 0, Vertical Angle = -1  
50% Maximum Candela = 307434.5  
10% Maximum Candela = 61486.9