



## IES FLOOD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13447

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/30/22

[TEST DATE] 06/01/22

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-85L-VNF-50

[ LUMINAIRE OTHER] TEST PROCEDURE: IESNA LM-79-19

[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	656744
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	13.8
Vertical Beam Angle (50%)	13.9
Horizontal Field Angle (10%)	27.3
Vertical Field Angle (10%)	27.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	22086
Beam Efficiency	N.A.
Field Lumens	42351
Field Efficiency	N.A.
Spill Lumens	30573
Luminaire Lumens	72924
Total Efficiency	N.A.
Total Luminaire Watts	546.5
Ballast Factor	1.00

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

**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	105	85	106
75	592	75	594
65	1150	65	1156
55	2303	55	2319
47.5	4652	47.5	4679
42.5	6916	42.5	6951
37.5	9540	37.5	9591
33	11801	33	11842
29	13476	29	13524
25.5	15733	25.5	15735
22.5	19198	22.5	19045
19.5	24198	19.5	24451
17	33067	17	33596
15	46457	15	47302
13	75263	13	76896
11	122904	11	126194
9	201359	9	206945
7	318619	7	325099
5	478685	5	480813
3	608479	3	611175
1	650417	1	651552
0	656744	0	656744
-1	650417	-1	651552
-3	608479	-3	611175
-5	478685	-5	480813
-7	318619	-7	325099
-9	201359	-9	206945
-11	122904	-11	126194
-13	75263	-13	76896
-15	46457	-15	47302
-17	33067	-17	33596
-19.5	24198	-19.5	24451
-22.5	19198	-22.5	19045
-25.5	15733	-25.5	15735
-29	13476	-29	13524
-33	11801	-33	11842
-37.5	9540	-37.5	9591
-42.5	6916	-42.5	6951
-47.5	4652	-47.5	4679
-55	2303	-55	2319
-65	1150	-65	1156
-75	592	-75	594
-85	105	-85	106
-90	0	-90	0

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

**CANDELA TABULATION**

Maximum Candela = 656744

Beam Edge = 328372 Cd (50% of Max.)

Field Edge = 65674.4 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	18	30	44	60	69	76	83	87
<b>75.0</b>	0	18	73	152	248	315	362	406	441	470
<b>65.0</b>	0	30	155	325	520	652	732	817	888	945
<b>55.0</b>	0	45	247	520	802	1009	1153	1316	1470	1604
<b>47.5</b>	0	60	315	655	1015	1318	1576	1899	2224	2585
<b>42.5</b>	0	68	366	738	1159	1574	1965	2483	3089	3729
<b>37.5</b>	0	76	413	817	1314	1899	2490	3362	4350	5290
<b>33.0</b>	0	83	452	886	1474	2240	3112	4367	5624	6814
<b>29.0</b>	0	88	482	943	1616	2603	3762	5297	6804	8277
<b>25.5</b>	0	92	506	992	1754	2913	4370	6100	7842	9435
<b>22.5</b>	0	95	525	1024	1860	3238	4849	6764	8679	10349
<b>19.5</b>	0	97	542	1056	1955	3521	5308	7401	9468	11150
<b>17.0</b>	0	99	554	1079	2038	3744	5646	7895	10038	11700
<b>15.0</b>	0	100	562	1095	2097	3938	5913	8253	10452	12087
<b>13.0</b>	0	102	569	1109	2149	4110	6166	8605	10821	12424
<b>11.0</b>	0	105	576	1121	2195	4260	6383	8903	11113	12717
<b>9.0</b>	0	105	581	1131	2233	4386	6562	9137	11346	12963
<b>7.0</b>	0	105	585	1139	2264	4488	6702	9317	11531	13163
<b>5.0</b>	0	105	591	1144	2285	4566	6804	9443	11670	13316
<b>3.0</b>	0	105	592	1150	2308	4648	6915	9519	11761	13421
<b>1.0</b>	0	105	592	1150	2305	4651	6916	9551	11799	13471
<b>0.0</b>	0	105	592	1150	2303	4652	6916	9540	11801	13476
<b>-1.0</b>	0	105	592	1150	2305	4651	6916	9551	11799	13471
<b>-3.0</b>	0	105	592	1150	2308	4648	6915	9519	11761	13421
<b>-5.0</b>	0	105	591	1144	2285	4566	6804	9443	11670	13316
<b>-7.0</b>	0	105	585	1139	2264	4488	6702	9317	11531	13163
<b>-9.0</b>	0	105	581	1131	2233	4386	6562	9137	11346	12963
<b>-11.0</b>	0	105	576	1121	2195	4260	6383	8903	11113	12717
<b>-13.0</b>	0	102	569	1109	2149	4110	6166	8605	10821	12424
<b>-15.0</b>	0	100	562	1095	2097	3938	5913	8253	10452	12087
<b>-17.0</b>	0	99	554	1079	2038	3744	5646	7895	10038	11700
<b>-19.5</b>	0	97	542	1056	1955	3521	5308	7401	9468	11150
<b>-22.5</b>	0	95	525	1024	1860	3238	4849	6764	8679	10349
<b>-25.5</b>	0	92	506	992	1754	2913	4370	6100	7842	9435
<b>-29.0</b>	0	88	482	943	1616	2603	3762	5297	6804	8277
<b>-33.0</b>	0	83	452	886	1474	2240	3112	4367	5624	6814
<b>-37.5</b>	0	76	413	817	1314	1899	2490	3362	4350	5290
<b>-42.5</b>	0	68	366	738	1159	1574	1965	2483	3089	3729
<b>-47.5</b>	0	60	315	655	1015	1318	1576	1899	2224	2585
<b>-55.0</b>	0	45	247	520	802	1009	1153	1316	1470	1604
<b>-65.0</b>	0	30	155	325	520	652	732	817	888	945
<b>-75.0</b>	0	18	73	152	248	315	362	406	441	470
<b>-85.0</b>	0	6	18	30	44	60	69	76	83	87
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

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

**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	91	94	97	99	101	103	106	107	107	107
75.0	493	511	526	537	544	553	561	569	576	585
65.0	996	1029	1059	1082	1098	1113	1125	1134	1141	1145
55.0	1739	1846	1950	2039	2102	2157	2200	2232	2257	2275
47.5	2911	3255	3563	3793	3973	4130	4264	4381	4474	4542
42.5	4348	4854	5336	5685	5947	6186	6394	6572	6719	6831
37.5	6118	6807	7431	7900	8246	8589	8892	9150	9343	9486
33.0	7859	8701	9473	10040	10443	10816	11115	11351	11537	11677
29.0	9460	10378	11178	11711	12104	12446	12734	12972	13165	13319
25.5	10710	11609	12369	12922	13357	13762	14116	14580	15012	15341
22.5	11608	12507	13308	13940	14647	15438	16172	17109	17861	18417
19.5	12395	13320	14273	15589	16755	18059	19362	20707	21815	22706
17.0	12952	13949	15575	17436	19019	20816	22543	25149	27543	29289
15.0	13363	14655	16733	18994	21046	23370	26882	30266	36621	41608
13.0	13735	15467	18060	20726	23291	27369	33198	41286	50538	62929
11.0	14060	16245	19340	22379	26653	33111	42667	58113	75079 *	95321 *
9.0	14546	17100	20637	24945	29941	41304	58280	79707 *	113882 *	144368 *
7.0	14971	17792	21645	27234	36241	50380	75257 *	113535 *	161128 *	228855 *
5.0	15300	18343	22435	29006	40930	61983	94330 *	142744 *	224847 *	324830 *
3.0	15516	18733	23418	31159	44143	69993 *	113153 *	179344 *	276060 *	417852 *
1.0	15679	19081	24048	32724	46172	75021 *	122484 *	200223 *	317088 *	488381 *
0.0	15733	19198	24198	33067	46457	75263 *	122904 *	201359 *	318619 *	478685 *
-1.0	15679	19081	24048	32724	46172	75021 *	122484 *	200223 *	317088 *	488381 *
-3.0	15516	18733	23418	31159	44143	69993 *	113153 *	179344 *	276060 *	417852 *
-5.0	15300	18343	22435	29006	40930	61983	94330 *	142744 *	224848 *	324830 *
-7.0	14971	17792	21645	27234	36241	50380	75257 *	113535 *	161128 *	228855 *
-9.0	14546	17100	20637	24945	29941	41304	58280	79707 *	113882 *	144368 *
-11.0	14060	16245	19340	22379	26653	33111	42667	58113	75079 *	95321 *
-13.0	13735	15467	18060	20726	23291	27369	33198	41286	50538	62929
-15.0	13363	14655	16733	18994	21046	23370	26882	30266	36621	41608
-17.0	12952	13949	15575	17436	19019	20816	22543	25149	27543	29289
-19.5	12395	13320	14273	15589	16755	18059	19362	20707	21815	22706
-22.5	11608	12507	13308	13940	14647	15438	16172	17109	17861	18417
-25.5	10710	11609	12369	12922	13357	13762	14116	14580	15012	15341
-29.0	9460	10378	11178	11711	12104	12446	12734	12972	13165	13319
-33.0	7859	8701	9473	10040	10443	10816	11115	11351	11537	11677
-37.5	6118	6807	7431	7900	8246	8589	8892	9150	9343	9486
-42.5	4348	4854	5336	5685	5947	6186	6394	6572	6719	6831
-47.5	2911	3255	3563	3793	3973	4130	4264	4381	4474	4542
-55.0	1739	1846	1950	2039	2102	2157	2200	2232	2257	2275
-65.0	996	1029	1059	1082	1098	1113	1125	1134	1141	1145
-75.0	493	511	526	537	544	553	561	569	576	585
-85.0	91	94	97	99	101	103	106	107	107	107
-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	107	106	106	106	107	107	107	107	106	103
75.0	588	592	594	592	588	585	576	569	561	553
65.0	1153	1155	1156	1155	1153	1145	1141	1134	1125	1113

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

**CANDELA TABULATION - (Cont.)**

55.0	2303	2314	2319	2314	2303	2275	2257	2232	2200	2157
47.5	4628	4662	4679	4662	4628	4542	4474	4381	4264	4130
42.5	6948	6950	6951	6950	6948	6831	6719	6572	6394	6186
37.5	9578	9605	9591	9605	9578	9486	9343	9150	8892	8589
33.0	11771	11829	11842	11829	11771	11677	11537	11351	11115	10816
29.0	13424	13501	13524	13501	13424	13319	13165	12972	12734	12446
25.5	15549	15689	15735	15689	15549	15341	15012	14580	14116	13762
22.5	18786	19021	19045	19021	18786	18417	17861	17109	16172	15438
19.5	23564	24180	24451	24180	23564	22706	21815	20707	19362	18059
17.0	31400	33010	33596	33010	31400	29289	27543	25149	22543	20816
15.0	44992	46848	47302	46848	44992	41608	36621	30266	26882	23370
13.0	71560 *	75434 *	76896 *	75434 *	71560 *	62929	50538	41286	33198	27369
11.0	114789 *	125468 *	126194 *	125468 *	114789 *	95321 *	75079 *	58113	42667	33111
9.0	181339 *	206347 *	206945 *	206347 *	181339 *	144368 *	113882 *	79707 *	58280	41304
7.0	279865 *	324196 *	325099 *	324196 *	279865 *	228855 *	161128 *	113535 *	75257 *	50380
5.0	418780 *	487381 *	480813 *	487381 *	418780 *	324830 *	224847 *	142744 *	94330 *	61983
3.0	537250 *	602492 *	611175 *	602492 *	537250 *	417852 *	276060 *	179344 *	113153 *	69993 *
1.0	604078 *	651409 *	651552 *	651409 *	604078 *	488381 *	317088 *	200223 *	122484 *	75021 *
0.0	608479 *	650417 *	656744 *	650417 *	608479 *	478685 *	318619 *	201359 *	122904 *	75263 *
-1.0	604078 *	651409 *	651552 *	651409 *	604078 *	488381 *	317088 *	200223 *	122484 *	75021 *
-3.0	537250 *	602492 *	611175 *	602492 *	537250 *	417852 *	276060 *	179344 *	113153 *	69993 *
-5.0	418780 *	487381 *	480813 *	487381 *	418780 *	324830 *	224848 *	142744 *	94330 *	61983
-7.0	279865 *	324196 *	325099 *	324196 *	279865 *	228855 *	161128 *	113535 *	75257 *	50380
-9.0	181339 *	206347 *	206945 *	206347 *	181339 *	144368 *	113882 *	79707 *	58280	41304
-11.0	114789 *	125468 *	126194 *	125468 *	114789 *	95321 *	75079 *	58113	42667	33111
-13.0	71560 *	75434 *	76896 *	75434 *	71560 *	62929	50538	41286	33198	27369
-15.0	44992	46848	47302	46848	44992	41608	36621	30266	26882	23370
-17.0	31400	33010	33596	33010	31400	29289	27543	25149	22543	20816
-19.5	23564	24180	24451	24180	23564	22706	21815	20707	19362	18059
-22.5	18786	19021	19045	19021	18786	18417	17861	17109	16172	15438
-25.5	15549	15689	15735	15689	15549	15341	15012	14580	14116	13762
-29.0	13424	13501	13524	13501	13424	13319	13165	12972	12734	12446
-33.0	11771	11829	11842	11829	11771	11677	11537	11351	11115	10816
-37.5	9578	9605	9591	9605	9578	9486	9343	9150	8892	8589
-42.5	6948	6950	6951	6950	6948	6831	6719	6572	6394	6186
-47.5	4628	4662	4679	4662	4628	4542	4474	4381	4264	4130
-55.0	2303	2314	2319	2314	2303	2275	2257	2232	2200	2157
-65.0	1153	1155	1156	1155	1153	1145	1141	1134	1125	1113
-75.0	588	592	594	592	588	585	576	569	561	553
-85.0	107	106	106	106	107	107	107	107	106	103
-90.0	0	0	0	0	0	0	0	0	0	0

**Vert. 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	101	99	97	94	91	87	83	76	69	60
75.0	544	537	526	511	493	470	441	406	362	315
65.0	1098	1082	1059	1029	996	945	888	817	732	652
55.0	2102	2039	1950	1846	1739	1604	1470	1316	1153	1009
47.5	3973	3793	3563	3255	2911	2585	2224	1899	1576	1318
42.5	5947	5685	5336	4854	4348	3729	3089	2483	1965	1574
37.5	8246	7900	7431	6807	6118	5290	4350	3362	2490	1899
33.0	10443	10040	9473	8701	7859	6814	5624	4367	3112	2240
29.0	12104	11711	11178	10378	9460	8277	6804	5297	3762	2603
25.5	13357	12922	12369	11609	10710	9435	7842	6100	4370	2913

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

**CANDELA TABULATION - (Cont.)**

<b>22.5</b>	14647	13940	13308	12507	11608	10349	8679	6764	4849	3238
<b>19.5</b>	16755	15589	14273	13320	12395	11150	9468	7401	5308	3521
<b>17.0</b>	19019	17436	15575	13949	12952	11700	10038	7895	5646	3744
<b>15.0</b>	21046	18994	16733	14655	13363	12087	10452	8253	5913	3938
<b>13.0</b>	23291	20726	18060	15467	13735	12424	10821	8605	6166	4110
<b>11.0</b>	26653	22379	19340	16245	14060	12717	11113	8903	6383	4260
<b>9.0</b>	29941	24945	20637	17100	14546	12963	11346	9137	6562	4386
<b>7.0</b>	36241	27234	21645	17792	14971	13163	11531	9317	6702	4488
<b>5.0</b>	40930	29006	22435	18343	15300	13316	11670	9443	6804	4566
<b>3.0</b>	44143	31159	23418	18733	15516	13421	11761	9519	6915	4648
<b>1.0</b>	46172	32724	24048	19081	15679	13471	11799	9551	6916	4651
<b>0.0</b>	46457	33067	24198	19198	15733	13476	11801	9540	6916	4652
<b>-1.0</b>	46172	32724	24048	19081	15679	13471	11799	9551	6916	4651
<b>-3.0</b>	44143	31159	23418	18733	15516	13421	11761	9519	6915	4648
<b>-5.0</b>	40930	29006	22435	18343	15300	13316	11670	9443	6804	4566
<b>-7.0</b>	36241	27234	21645	17792	14971	13163	11531	9317	6702	4488
<b>-9.0</b>	29941	24945	20637	17100	14546	12963	11346	9137	6562	4386
<b>-11.0</b>	26653	22379	19340	16245	14060	12717	11113	8903	6383	4260
<b>-13.0</b>	23291	20726	18060	15467	13735	12424	10821	8605	6166	4110
<b>-15.0</b>	21046	18994	16733	14655	13363	12087	10452	8253	5913	3938
<b>-17.0</b>	19019	17436	15575	13949	12952	11700	10038	7895	5646	3744
<b>-19.5</b>	16755	15589	14273	13320	12395	11150	9468	7401	5308	3521
<b>-22.5</b>	14647	13940	13308	12507	11608	10349	8679	6764	4849	3238
<b>-25.5</b>	13357	12922	12369	11609	10710	9435	7842	6100	4370	2913
<b>-29.0</b>	12104	11711	11178	10378	9460	8277	6804	5297	3762	2603
<b>-33.0</b>	10443	10040	9473	8701	7859	6814	5624	4367	3112	2240
<b>-37.5</b>	8246	7900	7431	6807	6118	5290	4350	3362	2490	1899
<b>-42.5</b>	5947	5685	5336	4854	4348	3729	3089	2483	1965	1574
<b>-47.5</b>	3973	3793	3563	3255	2911	2585	2224	1899	1576	1318
<b>-55.0</b>	2102	2039	1950	1846	1739	1604	1470	1316	1153	1009
<b>-65.0</b>	1098	1082	1059	1029	996	945	888	817	732	652
<b>-75.0</b>	544	537	526	511	493	470	441	406	362	315
<b>-85.0</b>	101	99	97	94	91	87	83	76	69	60
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>				
	<b><u>55.0</u></b>	<b><u>65.0</u></b>	<b><u>75.0</u></b>	<b><u>85.0</u></b>	<b><u>90.0</u></b>
<b>90.0</b>	0	0	0	0	0
<b>85.0</b>	44	30	18	6	0
<b>75.0</b>	248	152	73	18	0
<b>65.0</b>	520	325	155	30	0
<b>55.0</b>	802	520	247	45	0
<b>47.5</b>	1015	655	315	60	0
<b>42.5</b>	1159	738	366	68	0
<b>37.5</b>	1314	817	413	76	0
<b>33.0</b>	1474	886	452	83	0
<b>29.0</b>	1616	943	482	88	0
<b>25.5</b>	1754	992	506	92	0
<b>22.5</b>	1860	1024	525	95	0
<b>19.5</b>	1955	1056	542	97	0
<b>17.0</b>	2038	1079	554	99	0
<b>15.0</b>	2097	1095	562	100	0
<b>13.0</b>	2149	1109	569	102	0
<b>11.0</b>	2195	1121	576	105	0
<b>9.0</b>	2233	1131	581	105	0

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

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2264	1139	585	105	0
<b>5.0</b>	2285	1144	591	105	0
<b>3.0</b>	2308	1150	592	105	0
<b>1.0</b>	2305	1150	592	105	0
<b>0.0</b>	2303	1150	592	105	0
<b>-1.0</b>	2305	1150	592	105	0
<b>-3.0</b>	2308	1150	592	105	0
<b>-5.0</b>	2285	1144	591	105	0
<b>-7.0</b>	2264	1139	585	105	0
<b>-9.0</b>	2233	1131	581	105	0
<b>-11.0</b>	2195	1121	576	105	0
<b>-13.0</b>	2149	1109	569	102	0
<b>-15.0</b>	2097	1095	562	100	0
<b>-17.0</b>	2038	1079	554	99	0
<b>-19.5</b>	1955	1056	542	97	0
<b>-22.5</b>	1860	1024	525	95	0
<b>-25.5</b>	1754	992	506	92	0
<b>-29.0</b>	1616	943	482	88	0
<b>-33.0</b>	1474	886	452	83	0
<b>-37.5</b>	1314	817	413	76	0
<b>-42.5</b>	1159	738	366	68	0
<b>-47.5</b>	1015	655	315	60	0
<b>-55.0</b>	802	520	247	45	0
<b>-65.0</b>	520	325	155	30	0
<b>-75.0</b>	248	152	73	18	0
<b>-85.0</b>	44	30	18	6	0
<b>-90.0</b>	0	0	0	0	0

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 36462.06

Total Field Lumens (one side of beam only) = 21175.41

\* 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	0.08	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15
75	1.06	2.12	2.11	2.08	2.05	2.01	1.97	1.92	1.88	2.28
65	2.66	5.31	5.27	5.22	5.16	5.08	4.99	4.89	4.77	5.79
55	5.29	10.54	10.45	10.33	10.20	10.04	9.82	9.56	9.25	11.08
47.5	7.98	15.88	15.67	15.39	15.09	14.71	14.25	13.70	13.07	15.38
42.5	8.85	17.65	17.43	17.09	16.70	16.21	15.62	14.95	14.20	16.61
37.5	12.60	25.18	24.95	24.52	23.97	23.25	22.39	21.40	20.33	23.82
33	14.69	29.30	29.06	28.66	28.08	27.34	26.42	25.33	24.13	28.35
29	15.44	30.76	30.50	30.11	29.58	28.90	28.07	27.08	25.94	30.66
25.5	15.58	30.99	30.65	30.13	29.42	28.56	27.66	26.72	25.67	30.49
22.5	15.88	31.53	31.04	30.28	29.21	27.89	26.59	25.36	24.10	28.50
19.5	19.81	39.06	38.05	36.72	35.06	33.00	30.85	28.77	26.76	30.98
17	21.94	42.68	40.63	38.38	35.90	32.91	30.09	27.58	25.18	28.42
15	24.48	47.57	44.76	40.91	36.07	31.45	27.89	24.90	22.40	24.85
13	37.54	72.70	67.18	58.07	47.87	39.49	33.02	28.10	24.61	26.94
11	61.53 *	117.89 *	104.71 *	85.99 *	67.87	52.57	40.62	32.64	27.24	29.11
9	101.27 *	191.16 *	162.81 *	129.85 *	98.57 *	71.62	52.25	38.72	30.43	31.57
7	161.83 *	301.90 *	253.55 *	196.37 *	141.24 *	98.03 *	67.10	46.66	34.66	34.16
5	246.35 *	459.74 *	380.53 *	284.65 *	193.73 *	127.75 *	84.01 *	56.02	39.06	36.27
3	332.30 *	622.81 *	516.17 *	376.72 *	248.25 *	158.86 *	101.14 *	64.15	42.53	38.34
1	383.28 *	729.15 *	622.17 *	454.21 *	293.41 *	184.55 *	113.41 *	69.55	45.15	40.26
0	198.76 *	382.71 *	331.15 *	242.77 *	156.44 *	97.04 *	58.94 *	35.90	23.19	20.62
-1	198.76 *	382.71 *	331.15 *	242.77 *	156.44 *	97.04 *	58.94 *	35.90	23.19	20.62
	383.28 *	729.15 *	622.17 *	454.21 *	293.41 *	184.55 *	113.41 *	69.55	45.15	40.26

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

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	332.30 *	622.81 *	516.17 *	376.72 *	248.25 *	158.86 *	101.14 *	64.15	42.53	38.34
<b>-5</b>	246.35 *	459.74 *	380.53 *	284.65 *	193.73 *	127.75 *	84.01 *	56.02	39.06	36.27
<b>-7</b>	161.83 *	301.90 *	253.55 *	196.37 *	141.24 *	98.03 *	67.10	46.66	34.66	34.16
<b>-9</b>	101.27 *	191.16 *	162.81 *	129.85 *	98.57 *	71.62	52.25	38.72	30.43	31.57
<b>-11</b>	61.53 *	117.89 *	104.71 *	85.99 *	67.87	52.57	40.62	32.64	27.24	29.11
<b>-13</b>	37.54	72.70	67.18	58.07	47.87	39.49	33.02	28.10	24.61	26.94
<b>-15</b>	24.48	47.57	44.76	40.91	36.07	31.45	27.89	24.90	22.40	24.85
<b>-17</b>	21.94	42.68	40.63	38.38	35.90	32.91	30.09	27.58	25.18	28.42
<b>-19.5</b>	19.81	39.06	38.05	36.72	35.06	33.00	30.85	28.77	26.76	30.98
<b>-22.5</b>	15.88	31.53	31.04	30.28	29.21	27.89	26.59	25.36	24.10	28.50
<b>-25.5</b>	15.58	30.99	30.65	30.13	29.42	28.56	27.66	26.72	25.67	30.49
<b>-29</b>	15.44	30.76	30.50	30.11	29.58	28.90	28.07	27.08	25.94	30.66
<b>-33</b>	14.69	29.30	29.06	28.66	28.08	27.34	26.42	25.33	24.13	28.35
<b>-37.5</b>	12.60	25.18	24.95	24.52	23.97	23.25	22.39	21.40	20.33	23.82
<b>-42.5</b>	8.85	17.65	17.43	17.09	16.70	16.21	15.62	14.95	14.20	16.61
<b>-47.5</b>	7.98	15.88	15.67	15.39	15.09	14.71	14.25	13.70	13.07	15.38
<b>-55</b>	5.29	10.54	10.45	10.33	10.20	10.04	9.82	9.56	9.25	11.08
<b>-65</b>	2.66	5.31	5.27	5.22	5.16	5.08	4.99	4.89	4.77	5.79
<b>-75</b>	1.06	2.12	2.11	2.08	2.05	2.01	1.97	1.92	1.88	2.28
<b>-85</b>	0.08	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.18
<b>-90</b>										
<b>Total</b>	3378.41	6413.53	5517.98	4277.25	3088.07	2222.82	1634.55	1248.11	1009.41	1069.31

**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>	0.20	0.19	0.21	0.22	0.22	0.21	0.17	0.19	0.14	0.06
<b>85</b>	2.62	2.48	2.70	2.82	2.81	2.66	2.17	2.38	1.80	0.71
<b>75</b>	6.66	6.32	6.88	7.16	7.14	6.76	5.55	6.20	4.73	1.83
<b>65</b>	12.55	11.71	12.52	12.81	12.57	11.72	9.54	10.66	8.24	3.24
<b>55</b>	16.98	15.26	15.71	15.43	14.50	13.00	10.21	11.10	8.53	3.39

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

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	18.14	16.04	16.08	15.18	13.56	11.55	8.66	9.05	6.78	2.70
<b>42.5</b>	26.05	23.09	23.08	21.48	18.58	15.02	10.67	10.62	7.66	3.04
<b>37.5</b>	31.11	27.69	27.81	25.94	22.29	17.49	11.80	11.14	7.69	3.01
<b>33</b>	33.89	30.38	30.71	28.74	24.72	19.29	12.62	11.34	7.48	2.87
<b>29</b>	33.99	30.79	31.41	29.57	25.50	19.93	12.86	11.11	7.06	2.66
<b>25.5</b>	31.86	29.07	29.92	28.43	24.66	19.32	12.41	10.47	6.42	2.38
<b>22.5</b>	34.17	31.20	32.34	31.05	27.12	21.28	13.66	11.33	6.73	2.46
<b>19.5</b>	30.45	27.45	28.55	27.64	24.34	19.14	12.26	10.05	5.83	2.10
<b>17</b>	25.98	22.92	23.74	23.12	20.50	16.16	10.36	8.44	4.80	1.71
<b>15</b>	27.69	23.88	24.45	23.90	21.34	16.88	10.83	8.78	4.91	1.74
<b>13</b>	29.48	24.84	25.08	24.58	22.07	17.53	11.26	9.08	5.00	1.76
<b>11</b>	31.27	25.86	25.72	25.13	22.66	18.07	11.62	9.34	5.08	1.77
<b>9</b>	32.92	26.88	26.37	25.58	23.13	18.50	11.92	9.55	5.15	1.79
<b>7</b>	34.21	27.72	26.89	25.94	23.48	18.82	12.14	9.72	5.20	1.80
<b>5</b>	35.37	28.34	27.27	26.19	23.72	19.06	12.35	9.86	5.24	1.81
<b>3</b>	36.37	28.80	27.52	26.34	23.85	19.19	12.45	9.94	5.26	1.81
<b>1</b>	18.45	14.54	13.83	13.20	11.94	9.60	6.23	4.97	2.63	0.91
<b>0</b>	18.45	14.54	13.83	13.20	11.94	9.60	6.23	4.97	2.63	0.91
<b>-1</b>	36.37	28.80	27.52	26.34	23.85	19.19	12.45	9.94	5.26	1.81
<b>-3</b>	35.37	28.34	27.27	26.19	23.72	19.06	12.35	9.86	5.24	1.81
<b>-5</b>	34.21	27.72	26.89	25.94	23.48	18.82	12.14	9.72	5.20	1.80
<b>-7</b>	32.92	26.88	26.37	25.58	23.13	18.50	11.92	9.55	5.15	1.79
<b>-9</b>	31.27	25.86	25.72	25.13	22.66	18.07	11.62	9.34	5.08	1.77
<b>-11</b>	29.48	24.84	25.08	24.58	22.07	17.53	11.26	9.08	5.00	1.76
<b>-13</b>	27.69	23.88	24.45	23.90	21.34	16.88	10.83	8.78	4.91	1.74
<b>-15</b>	25.98	22.92	23.74	23.12	20.50	16.16	10.36	8.44	4.80	1.71
<b>-17</b>	30.45	27.45	28.55	27.64	24.34	19.14	12.26	10.05	5.83	2.10
<b>-19.5</b>	34.17	31.20	32.34	31.05	27.12	21.28	13.66	11.33	6.73	2.46

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

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	31.86	29.07	29.92	28.43	24.66	19.32	12.41	10.47	6.42	2.38
<b>-25.5</b>	33.99	30.79	31.41	29.57	25.50	19.93	12.86	11.11	7.06	2.66
<b>-29</b>	33.89	30.38	30.71	28.74	24.72	19.29	12.62	11.34	7.48	2.87
<b>-33</b>	31.11	27.69	27.81	25.94	22.29	17.49	11.80	11.14	7.69	3.01
<b>-37.5</b>	26.05	23.09	23.08	21.48	18.58	15.02	10.67	10.62	7.66	3.04
<b>-42.5</b>	18.14	16.04	16.08	15.18	13.56	11.55	8.66	9.05	6.78	2.70
<b>-47.5</b>	16.98	15.26	15.71	15.43	14.50	13.00	10.21	11.10	8.53	3.39
<b>-55</b>	12.55	11.71	12.52	12.81	12.57	11.72	9.54	10.66	8.24	3.24
<b>-65</b>	6.66	6.32	6.88	7.16	7.14	6.76	5.55	6.20	4.73	1.83
<b>-75</b>	2.62	2.48	2.70	2.82	2.81	2.66	2.17	2.38	1.80	0.71
<b>-85</b>	0.20	0.19	0.21	0.22	0.22	0.21	0.17	0.19	0.14	0.06
<b>-90</b>										
<b>Total</b>	1100.82	950.90	957.61	920.92	821.46	662.31	443.46	390.66	244.70	91.08

<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>			
	0.02	0.00	3.36
<b>85</b>			
	0.15	0.00	42.81
<b>75</b>			
	0.36	0.01	108.77
<b>65</b>			
	0.63	0.01	202.76
<b>55</b>			
	0.66	0.01	265.90
<b>47.5</b>			
	0.53	0.01	273.59
<b>42.5</b>			
	0.61	0.01	382.33
<b>37.5</b>			
	0.61	0.01	447.94
<b>33</b>			
	0.58	0.01	479.69
<b>29</b>			
	0.54	0.01	481.29
<b>25.5</b>			
	0.48	0.01	465.79
<b>22.5</b>			
	0.50	0.01	530.90
<b>19.5</b>			
	0.43	0.01	511.94
<b>17</b>			
	0.35	0.01	483.37

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

**LUMENS TABULATION - (Cont.)**

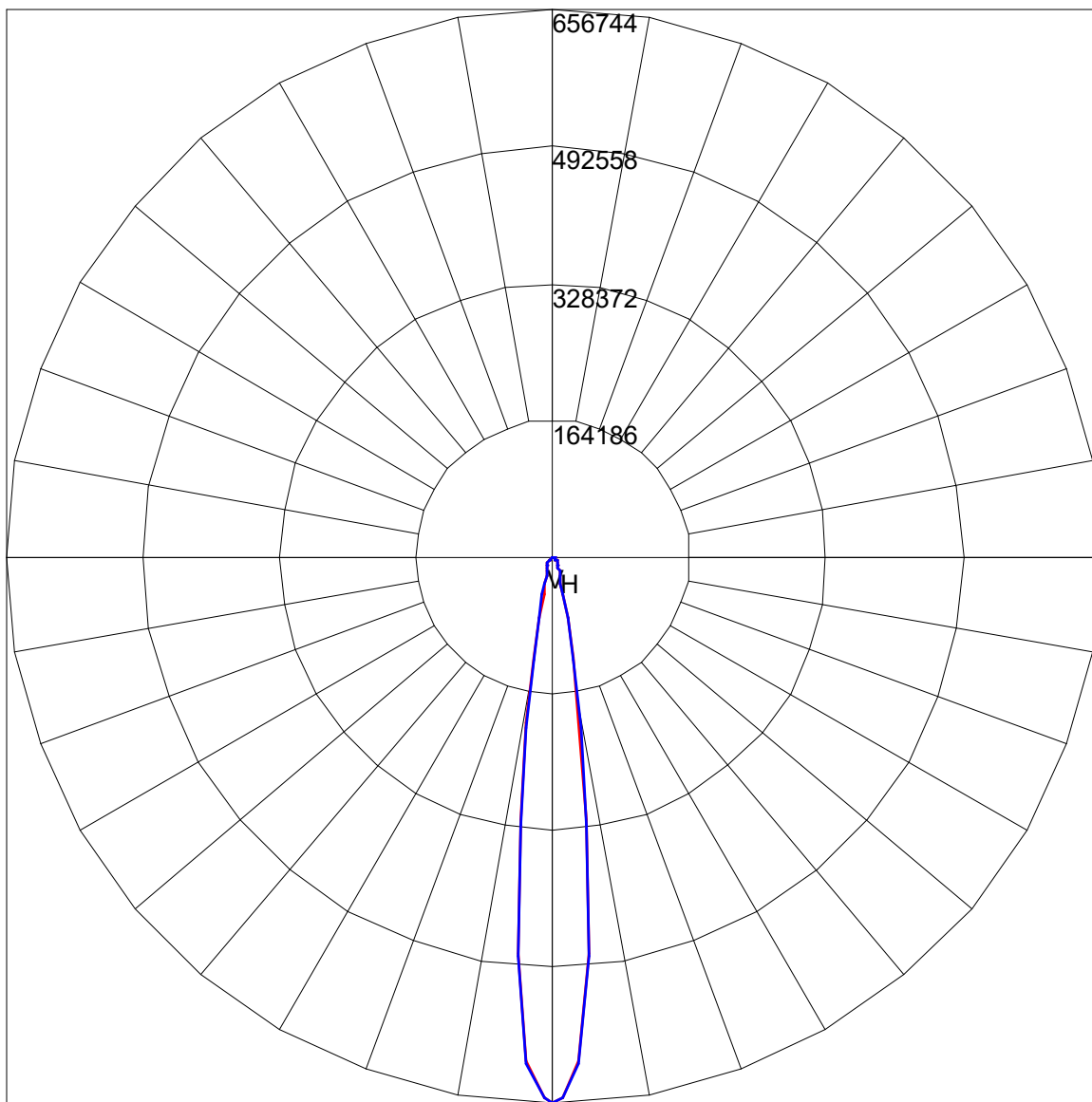
<b>15</b>	0.35	0.01	600.29
<b>13</b>	0.36	0.01	791.22
<b>11</b>	0.36	0.01	1085.16
<b>9</b>	0.36	0.01	1517.65
<b>7</b>	0.37	0.01	2094.4
<b>5</b>	0.37	0.01	2690.84
<b>3</b>	0.37	0.01	3127.07
<b>1</b>	0.18	0.00	1644.00
<b>0</b>	0.18	0.00	1644.00
<b>-1</b>	0.37	0.01	3127.07
<b>-3</b>	0.37	0.01	2690.84
<b>-5</b>	0.37	0.01	2094.4
<b>-7</b>	0.36	0.01	1517.65
<b>-9</b>	0.36	0.01	1085.16
<b>-11</b>	0.36	0.01	791.22
<b>-13</b>	0.35	0.01	600.29
<b>-15</b>	0.35	0.01	483.37
<b>-17</b>	0.43	0.01	511.94
<b>-19.5</b>	0.50	0.01	530.90
<b>-22.5</b>	0.48	0.01	465.79
<b>-25.5</b>	0.54	0.01	481.29
<b>-29</b>	0.58	0.01	479.69
<b>-33</b>	0.61	0.01	447.94
<b>-37.5</b>	0.61	0.01	382.33
<b>-42.5</b>	0.53	0.01	273.59
<b>-47.5</b>	0.66	0.01	265.90
<b>-55</b>	0.63	0.01	202.76
<b>-65</b>	0.36	0.01	108.77

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

**LUMENS TABULATION - (Cont.)**

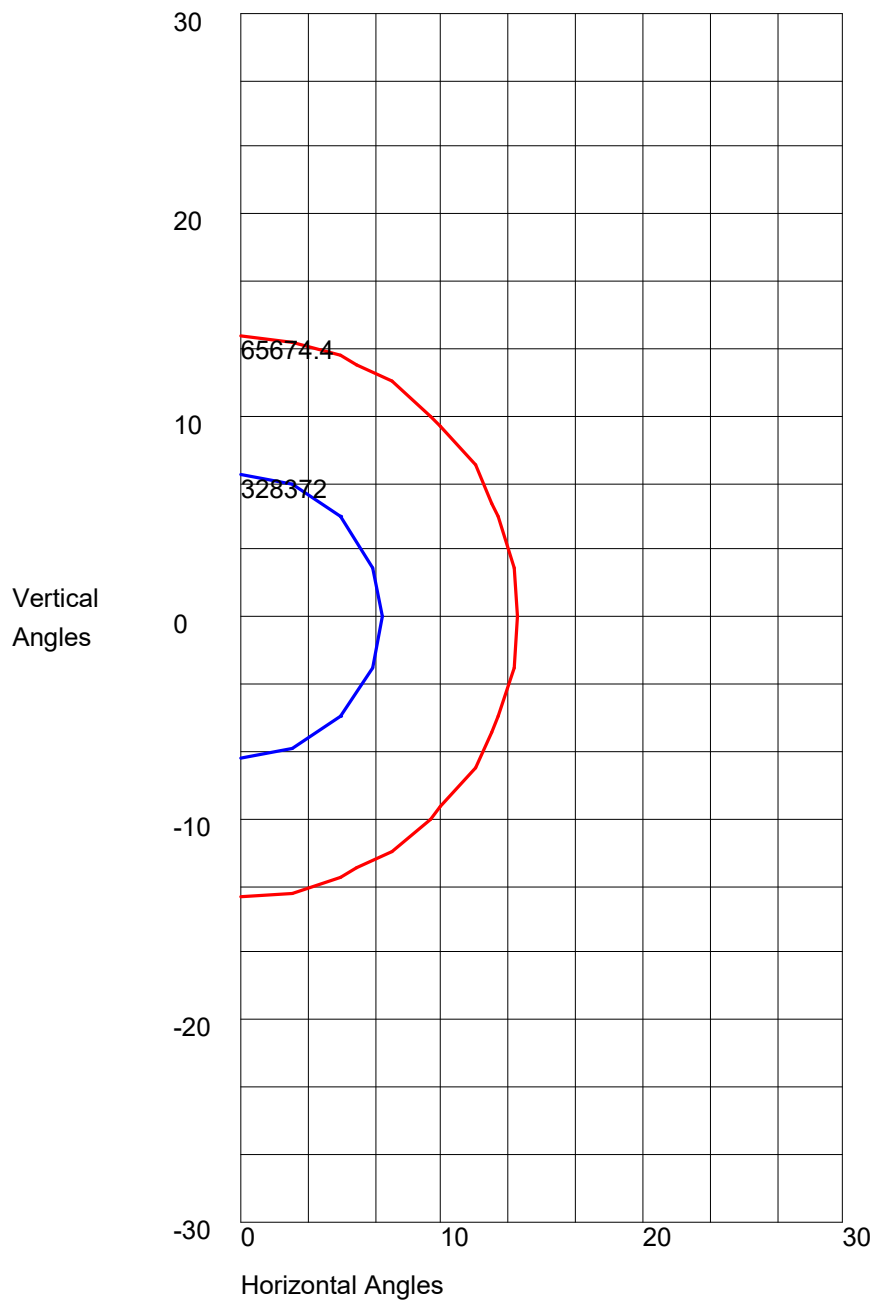
<b>-75</b>	0.15	0.00	42.81
<b>-85</b>	0.02	0.00	3.36
<b>-90</b>			
<b>Total</b>	18.35	0.36	36462.11

AXIAL CANDELA DISPLAY



Maximum Candela = 656744 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 656744 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 328372  
10% Maximum Candela = 65674.4