



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-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  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] ZNF-100L-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\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLOR TEMP] 4000

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

### CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	808113
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	28021
Beam Efficiency	N.A.
Field Lumens	54643
Field Efficiency	N.A.
Spill Lumens	36249
Luminaire Lumens	90892
Total Efficiency	N.A.
Total Luminaire Watts	766.7
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	112	85	0
75	572	75	0
65	1234	65	192
55	2481	55	1334
47.5	5362	47.5	2856
42.5	8416	42.5	5193
37.5	12242	37.5	8524
33	15194	33	12023
29	17507	29	14656
25.5	20537	25.5	17819
22.5	25489	22.5	22656
19.5	33345	19.5	30914
17	46643	17	44104
15	66403	15	62103
13	103633	13	98165
11	163557	11	154793
9	257076	9	243268
7	396497	7	374287
5	595530	5	557966
3	754588	3	729662
1	801560	1	792853
0	806365	0	806365
-1	801560	-1	808113
-3	754588	-3	776705
-5	595530	-5	640584
-7	396497	-7	447355
-9	257076	-9	291621
-11	163557	-11	182796
-13	103633	-13	115496
-15	66403	-15	69538
-17	46643	-17	48637
-19.5	33345	-19.5	34026
-22.5	25489	-22.5	26042
-25.5	20537	-25.5	21638
-29	17507	-29	18703
-33	15194	-33	16457
-37.5	12242	-37.5	13545
-42.5	8416	-42.5	9870
-47.5	5362	-47.5	6397
-55	2481	-55	3164
-65	1234	-65	1699
-75	572	-75	935
-85	112	-85	255
-90	0	-90	1

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**CANDELA TABULATION**

Maximum Candela = 808113

Beam Edge = 404056.5 Cd (50% of Max.)

Field Edge = 80811.3 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	8	21	19	15	13	10	7	5	3
<b>75.0</b>	0	24	65	74	79	69	60	48	31	25
<b>65.0</b>	0	40	118	187	258	287	299	304	302	299
<b>55.0</b>	0	56	186	354	508	624	711	787	867	944
<b>47.5</b>	0	68	242	477	709	900	1053	1239	1435	1647
<b>42.5</b>	0	75	285	562	860	1163	1430	1783	2211	2652
<b>37.5</b>	0	82	326	652	1049	1512	1954	2627	3479	4368
<b>33.0</b>	0	88	362	740	1246	1886	2601	3722	5020	6287
<b>29.0</b>	0	93	398	820	1425	2294	3333	4934	6702	8325
<b>25.5</b>	0	97	428	891	1604	2664	4134	6102	8219	10113
<b>22.5</b>	0	99	452	943	1752	3074	4814	7094	9475	11652
<b>19.5</b>	0	102	475	997	1886	3457	5515	8075	10676	12963
<b>17.0</b>	0	104	492	1039	1998	3784	6055	8859	11637	13839
<b>15.0</b>	0	106	505	1071	2080	4059	6478	9440	12375	14506
<b>13.0</b>	0	107	518	1101	2157	4309	6879	10015	13046	15117
<b>11.0</b>	0	110	529	1129	2227	4535	7245	10549	13561	15704
<b>9.0</b>	0	111	539	1153	2290	4735	7573	11022	13976	16257
<b>7.0</b>	0	111	548	1175	2346	4907	7861	11425	14362	16702
<b>5.0</b>	0	111	560	1195	2395	5058	8106	11759	14710	17042
<b>3.0</b>	0	112	565	1215	2445	5237	8327	12012	15000	17302
<b>1.0</b>	0	112	570	1228	2469	5320	8386	12191	15146	17459
<b>0.0</b>	0	112	572	1234	2481	5362	8416	12242	15194	17507
<b>-1.0</b>	0	112	575	1239	2498	5389	8457	12295	15245	17595
<b>-3.0</b>	0	113	581	1250	2532	5444	8538	12320	15298	17701
<b>-5.0</b>	0	113	586	1253	2536	5397	8465	12287	15282	17678
<b>-7.0</b>	0	114	585	1256	2541	5349	8406	12184	15192	17579
<b>-9.0</b>	0	114	586	1257	2525	5265	8293	12007	15027	17420
<b>-11.0</b>	0	114	586	1255	2499	5147	8128	11756	14781	17205
<b>-13.0</b>	0	112	584	1252	2465	4993	7909	11426	14460	16942
<b>-15.0</b>	0	111	581	1245	2422	4804	7636	11030	14097	16636
<b>-17.0</b>	0	110	577	1235	2372	4581	7316	10609	13682	16053
<b>-19.5</b>	0	109	570	1219	2299	4297	6866	10001	13023	15227
<b>-22.5</b>	0	107	557	1194	2219	3947	6210	9162	11982	14220
<b>-25.5</b>	0	105	541	1168	2122	3551	5541	8262	10860	13076
<b>-29.0</b>	0	102	520	1123	1992	3201	4747	7118	9412	11526
<b>-33.0</b>	0	99	491	1069	1851	2795	3943	5797	7722	9467
<b>-37.5</b>	0	93	458	998	1683	2440	3193	4407	5874	7301
<b>-42.5</b>	0	87	417	912	1511	2084	2593	3284	4132	5020
<b>-47.5</b>	0	80	370	819	1342	1774	2130	2578	3003	3474
<b>-55.0</b>	0	68	305	672	1072	1399	1609	1838	2060	2251
<b>-65.0</b>	0	50	212	450	725	938	1077	1206	1319	1401
<b>-75.0</b>	0	31	125	248	391	505	579	651	711	757
<b>-85.0</b>	0	10	43	80	120	150	168	185	199	208
<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	15	10	7	4	2	1	1	0	0	0
65.0	291	283	280	272	263	253	246	236	223	208
55.0	1008	1072	1134	1176	1208	1238	1261	1282	1302	1319
47.5	1812	2008	2154	2292	2421	2523	2601	2694	2766	2816
42.5	3140	3536	3931	4204	4431	4630	4788	4932	5052	5134
37.5	5143	5771	6400	6875	7219	7594	7912	8166	8330	8421
33.0	7375	8273	9143	9851	10343	10778	11126	11391	11602	11763
29.0	9691	10790	11756	12445	12937	13303	13621	13882	14123	14348
25.5	11701	12812	13717	14324	14883	15422	15895	16462	16932	17271
22.5	13184	14255	15222	16130	16990	17926	18710	19874	20868	21624
19.5	14458	15670	17043	18559	20088	21880	23537	25395	27055	28335
17.0	15470	16895	18847	21274	23437	26398	29084	32719	36067	38395
15.0	16248	17980	20620	23766	27031	30740	35980	40798	49111	55585
13.0	16964	19151	22762	26927	30921	37081	45402	56292	67946	82756 *
11.0	17650	20312	24827	29839	35940	45278	58913	78197	98679 *	121589 *
9.0	18467	21789	27173	33928	41153	56665	78703	105209 *	142280 *	176624 *
7.0	19164	23115	29226	37865	50706	69681	100426 *	144504 *	190981 *	262307 *
5.0	19692	24155	30812	41175	58292	85429 *	123945 *	178941 *	269028 *	363356 *
3.0	20103	24861	32294	44288	63472	96514 *	145513 *	217177 *	320798 *	491377 *
1.0	20421	25371	33172	46349	66423	102664 *	158243 *	245081 *	377127 *	581105 *
0.0	20537	25489	33345	46643	66403	103633 *	163557 *	257076 *	396497 *	595530 *
-1.0	20689	25761	33619	46960	66755	103510 *	160132 *	249369 *	384398 *	591197 *
-3.0	20783	25620	32987	45075	64297	98833 *	151066 *	230606 *	352155 *	526882 *
-5.0	20535	24868	31391	41720	59508	88280 *	130455 *	192369 *	289990 *	408239 *
-7.0	20182	23989	29957	38643	52171	72940	106464 *	154400 *	209312 *	307591 *
-9.0	19735	23047	28246	35035	43328	60617	84618 *	113749 *	158967 *	203315 *
-11.0	19208	21899	26289	31086	38411	48745	63846	85068 *	109386 *	137777 *
-13.0	18817	21024	24565	28604	32788	39693	48659	60388	74039	92443 *
-15.0	18305	20064	22819	25907	29218	32825	38299	43585	53140	61846
-17.0	17754	19157	21252	23754	25942	28646	31104	35304	39346	42972
-19.5	17061	18244	19545	21267	22873	24620	26335	28330	30151	31647
-22.5	15923	17128	18221	19163	20152	21193	22161	23389	24454	25225
-25.5	14644	15883	17025	17802	18388	18951	19448	20058	20645	21090
-29.0	13115	14291	15336	16183	16776	17197	17517	17780	18027	18297
-33.0	11007	12254	13342	14008	14454	14870	15282	15613	15874	16088
-37.5	8536	9542	10495	11224	11735	12153	12519	12830	13083	13269
-42.5	5971	6732	7443	7965	8351	8700	9002	9261	9473	9634
-47.5	3898	4366	4786	5146	5447	5707	5927	6108	6255	6367
-55.0	2421	2553	2685	2806	2895	2977	3037	3081	3113	3135
-65.0	1471	1517	1558	1587	1608	1626	1643	1657	1667	1675
-75.0	793	819	845	865	881	893	904	913	921	932
-85.0	216	224	233	239	244	245	251	250	250	249
-90.0	0	0	0	1	1	1	1	1	1	1

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	204	196	192	196	204	208	223	236	246	253

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**CANDELA TABULATION - (Cont.)**

55.0	1338	1335	1334	1335	1338	1319	1302	1282	1261	1238
47.5	2869	2860	2856	2860	2869	2816	2766	2694	2601	2523
42.5	5224	5203	5193	5203	5224	5134	5052	4932	4788	4630
37.5	8443	8521	8524	8521	8443	8421	8330	8166	7912	7594
33.0	11860	11983	12023	11983	11860	11763	11602	11391	11126	10778
29.0	14473	14603	14656	14603	14473	14348	14123	13882	13621	13303
25.5	17477	17702	17819	17702	17477	17271	16932	16462	15895	15422
22.5	22130	22533	22656	22533	22130	21624	20868	19874	18710	17926
19.5	29759	30713	30914	30713	29759	28335	27055	25395	23537	21880
17.0	41790	44118	44104	44118	41790	38395	36067	32719	29084	26398
15.0	60238	62662	62103	62662	60238	55585	49111	40798	35980	30740
13.0	93223 *	98287 *	98165 *	98287 *	93223 *	82756 *	67946	56292	45402	37081
11.0	143342 *	154519 *	154793 *	154519 *	143342 *	121589 *	98679 *	78197	58913	45278
9.0	216291 *	241533 *	243268 *	241533 *	216291 *	176624 *	142280 *	105209 *	78703	56665
7.0	320413 *	370031 *	374287 *	370031 *	320413 *	262307 *	190981 *	144504 *	100426 *	69681
5.0	483569 *	567462 *	557966 *	567462 *	483569 *	363356 *	269028 *	178941 *	123945 *	85429 *
3.0	624540 *	724099 *	729662 *	724099 *	624540 *	491377 *	320798 *	217177 *	145513 *	96514 *
1.0	727334 *	789243 *	792853 *	789243 *	727334 *	581105 *	377127 *	245081 *	158243 *	102664 *
0.0	754588 *	801560 *	806365 *	801560 *	754588 *	595530 *	396497 *	257076 *	163557 *	103633 *
-1.0	744318 *	803674 *	808113 *	803674 *	744318 *	591197 *	384398 *	249369 *	160132 *	103510 *
-3.0	670657 *	760955 *	776705 *	760955 *	670657 *	526882 *	352155 *	230606 *	151066 *	98833 *
-5.0	552845 *	630186 *	640584 *	630186 *	552845 *	408239 *	289990 *	192369 *	130455 *	88280 *
-7.0	383287 *	430121 *	447355 *	430121 *	383287 *	307591 *	209312 *	154400 *	106464 *	72940
-9.0	249987 *	280563 *	291621 *	280563 *	249987 *	203315 *	158967 *	113749 *	84618 *	60617
-11.0	162632 *	176791 *	182796 *	176791 *	162632 *	137777 *	109386 *	85068 *	63846	48745
-13.0	105753 *	112817 *	115496 *	112817 *	105753 *	92443 *	74039	60388	48659	39693
-15.0	68105	71010	69538	71010	68105	61846	53140	43585	38299	32825
-17.0	46804	49012	48637	49012	46804	42972	39346	35304	31104	28646
-19.5	33273	34110	34026	34110	33273	31647	30151	28330	26335	24620
-22.5	25638	25955	26042	25955	25638	25225	24454	23389	22161	21193
-25.5	21343	21547	21638	21547	21343	21090	20645	20058	19448	18951
-29.0	18492	18647	18703	18647	18492	18297	18027	17780	17517	17197
-33.0	16243	16399	16457	16399	16243	16088	15874	15613	15282	14870
-37.5	13387	13518	13545	13518	13387	13269	13083	12830	12519	12153
-42.5	9809	9850	9870	9850	9809	9634	9473	9261	9002	8700
-47.5	6467	6420	6397	6420	6467	6367	6255	6108	5927	5707
-55.0	3163	3164	3164	3164	3163	3135	3113	3081	3037	2977
-65.0	1688	1695	1699	1695	1688	1675	1667	1657	1643	1626
-75.0	933	934	935	934	933	932	921	913	904	893
-85.0	251	254	255	254	251	249	250	250	251	245
-90.0	1	1	1	1	1	1	1	1	1	1

**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	1	1	1	2	2	3	5	7	10	13
75.0	2	4	7	10	15	25	31	48	60	69
65.0	263	272	280	283	291	299	302	304	299	287
55.0	1208	1176	1134	1072	1008	944	867	787	711	624
47.5	2421	2292	2154	2008	1812	1647	1435	1239	1053	900
42.5	4431	4204	3931	3536	3140	2652	2211	1783	1430	1163
37.5	7219	6875	6400	5771	5143	4368	3479	2627	1954	1512
33.0	10343	9851	9143	8273	7375	6287	5020	3722	2601	1886
29.0	12937	12445	11756	10790	9691	8325	6702	4934	3333	2294
25.5	14883	14324	13717	12812	11701	10113	8219	6102	4134	2664

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**CANDELA TABULATION - (Cont.)**

22.5	16990	16130	15222	14255	13184	11652	9475	7094	4814	3074
19.5	20088	18559	17043	15670	14458	12963	10676	8075	5515	3457
17.0	23437	21274	18847	16895	15470	13839	11637	8859	6055	3784
15.0	27031	23766	20620	17980	16248	14506	12375	9440	6478	4059
13.0	30921	26927	22762	19151	16964	15117	13046	10015	6879	4309
11.0	35940	29839	24827	20312	17650	15704	13561	10549	7245	4535
9.0	41153	33928	27173	21789	18467	16257	13976	11022	7573	4735
7.0	50706	37865	29226	23115	19164	16702	14362	11425	7861	4907
5.0	58292	41175	30812	24155	19692	17042	14710	11759	8106	5058
3.0	63472	44288	32294	24861	20103	17302	15000	12012	8327	5237
1.0	66423	46349	33172	25371	20421	17459	15146	12191	8386	5320
0.0	66403	46643	33345	25489	20537	17507	15194	12242	8416	5362
-1.0	66755	46960	33619	25761	20689	17595	15245	12295	8457	5389
-3.0	64297	45075	32987	25620	20783	17701	15298	12320	8538	5444
-5.0	59508	41720	31391	24868	20535	17678	15282	12287	8465	5397
-7.0	52171	38643	29957	23989	20182	17579	15192	12184	8406	5349
-9.0	43328	35035	28246	23047	19735	17420	15027	12007	8293	5265
-11.0	38411	31086	26289	21899	19208	17205	14781	11756	8128	5147
-13.0	32788	28604	24565	21024	18817	16942	14460	11426	7909	4993
-15.0	29218	25907	22819	20064	18305	16636	14097	11030	7636	4804
-17.0	25942	23754	21252	19157	17754	16053	13682	10609	7316	4581
-19.5	22873	21267	19545	18244	17061	15227	13023	10001	6866	4297
-22.5	20152	19163	18221	17128	15923	14220	11982	9162	6210	3947
-25.5	18388	17802	17025	15883	14644	13076	10860	8262	5541	3551
-29.0	16776	16183	15336	14291	13115	11526	9412	7118	4747	3201
-33.0	14454	14008	13342	12254	11007	9467	7722	5797	3943	2795
-37.5	11735	11224	10495	9542	8536	7301	5874	4407	3193	2440
-42.5	8351	7965	7443	6732	5971	5020	4132	3284	2593	2084
-47.5	5447	5146	4786	4366	3898	3474	3003	2578	2130	1774
-55.0	2895	2806	2685	2553	2421	2251	2060	1838	1609	1399
-65.0	1608	1587	1558	1517	1471	1401	1319	1206	1077	938
-75.0	881	865	845	819	793	757	711	651	579	505
-85.0	244	239	233	224	216	208	199	185	168	150
-90.0	1	1	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	15	19	21	8	0
75.0	79	74	65	24	0
65.0	258	187	118	40	0
55.0	508	354	186	56	0
47.5	709	477	242	68	0
42.5	860	562	285	75	0
37.5	1049	652	326	82	0
33.0	1246	740	362	88	0
29.0	1425	820	398	93	0
25.5	1604	891	428	97	0
22.5	1752	943	452	99	0
19.5	1886	997	475	102	0
17.0	1998	1039	492	104	0
15.0	2080	1071	505	106	0
13.0	2157	1101	518	107	0
11.0	2227	1129	529	110	0
9.0	2290	1153	539	111	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2346	1175	548	111	0
<b>5.0</b>	2395	1195	560	111	0
<b>3.0</b>	2445	1215	565	112	0
<b>1.0</b>	2469	1228	570	112	0
<b>0.0</b>	2481	1234	572	112	0
<b>-1.0</b>	2498	1239	575	112	0
<b>-3.0</b>	2532	1250	581	113	0
<b>-5.0</b>	2536	1253	586	113	0
<b>-7.0</b>	2541	1256	585	114	0
<b>-9.0</b>	2525	1257	586	114	0
<b>-11.0</b>	2499	1255	586	114	0
<b>-13.0</b>	2465	1252	584	112	0
<b>-15.0</b>	2422	1245	581	111	0
<b>-17.0</b>	2372	1235	577	110	0
<b>-19.5</b>	2299	1219	570	109	0
<b>-22.5</b>	2219	1194	557	107	0
<b>-25.5</b>	2122	1168	541	105	0
<b>-29.0</b>	1992	1123	520	102	0
<b>-33.0</b>	1851	1069	491	99	0
<b>-37.5</b>	1683	998	458	93	0
<b>-42.5</b>	1511	912	417	87	0
<b>-47.5</b>	1342	819	370	80	0
<b>-55.0</b>	1072	672	305	68	0
<b>-65.0</b>	725	450	212	50	0
<b>-75.0</b>	391	248	125	31	0
<b>-85.0</b>	120	80	43	10	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 45446.21

Total Field Lumens (one side of beam only) = 27321.5

\* 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	0.30	0.61	0.63	0.65	0.69	0.72	0.75	0.77	0.79	1.02
55	2.33	4.68	4.66	4.62	4.59	4.54	4.47	4.38	4.27	5.17
47.5	4.79	9.59	9.51	9.32	9.10	8.82	8.52	8.19	7.79	9.16
42.5	6.13	12.30	12.19	11.94	11.65	11.26	10.83	10.35	9.77	11.37
37.5	10.45	20.85	20.68	20.40	19.97	19.35	18.56	17.64	16.64	19.35
33	14.07	27.95	27.68	27.34	26.80	26.05	25.08	23.90	22.59	26.25
29	16.22	32.22	31.87	31.41	30.77	30.01	29.10	28.00	26.69	31.24
25.5	17.27	34.23	33.80	33.23	32.41	31.42	30.37	29.25	27.97	33.06
22.5	18.44	36.46	35.78	34.85	33.54	31.92	30.37	28.91	27.37	32.21
19.5	24.40	48.01	46.42	44.48	42.17	39.38	36.67	34.09	31.52	36.31
17	28.53	55.70	52.52	49.17	45.71	41.52	37.58	33.92	30.51	34.23
15	32.44	63.56	59.56	54.27	47.87	41.57	36.41	31.80	27.96	30.56
13	48.92	95.71	88.67	77.37	64.59	53.54	44.45	37.17	31.81	34.02
11	77.03 *	148.97 *	133.97 *	112.38 *	90.83	71.64	55.62	44.10	36.20	37.73
9	120.94 *	230.04 *	199.89 *	163.33 *	128.00 *	96.30	71.38	52.91	41.24	41.86
7	187.20 *	349.55 *	296.46 *	233.92 *	175.85 *	128.64 *	91.01	64.49	47.92	46.35
5	284.76 *	530.13 *	434.41 *	328.89 *	236.32 *	164.33 *	113.06 *	78.06	55.06	50.29
3	392.81 *	730.50 *	596.43 *	437.61 *	297.40 *	199.66 *	134.49 *	89.76	60.68	53.72
1	462.36 *	872.22 *	736.66 *	536.32 *	349.95 *	229.78 *	149.85 *	97.26 *	64.57	56.45
0	242.92 *	467.69 *	403.91 *	295.40 *	192.41 *	123.58 *	78.67 *	50.11 *	33.06	28.84
-1	245.18 *	472.48 *	408.03 *	298.03 *	194.16 *	124.51 *	79.08 *	50.29 *	33.20	29.03
	479.66 *	907.04 *	769.69 *	561.83 *	366.95 *	237.33 *	153.01 *	98.54 *	65.32	57.36

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	427.73 *	795.94 *	655.92 *	477.81 *	321.28 *	211.33 *	139.63 *	91.89	61.66	54.66
<b>-5</b>	327.18 *	607.75 *	501.97 *	368.10 *	255.21 *	175.09 *	118.62 *	80.66	56.23	51.24
<b>-7</b>	220.78 *	409.12 *	347.67 *	266.33 *	191.97 *	137.76 *	96.72 *	67.70	49.54	47.69
<b>-9</b>	141.91 *	264.83 *	229.02 *	184.62 *	140.92 *	104.18 *	76.82	56.48	43.29	43.63
<b>-11</b>	89.54 *	169.86 *	151.51 *	125.31 *	99.20 *	77.38	59.87	47.18	38.32	39.97
<b>-13</b>	56.18 *	108.89 *	99.71 *	85.27	69.72	57.27	47.52	39.76	34.12	36.84
<b>-15</b>	36.28	71.52	66.77	59.77	51.69	44.48	38.99	34.47	30.69	33.89
<b>-17</b>	31.56	62.10	58.76	54.57	50.20	45.40	41.23	37.71	34.34	38.79
<b>-19.5</b>	27.44	54.33	52.77	50.66	48.11	45.09	42.15	39.38	36.65	42.41
<b>-22.5</b>	21.74	43.14	42.52	41.54	40.06	38.27	36.54	34.88	33.16	39.17
<b>-25.5</b>	21.46	42.63	42.13	41.38	40.39	39.27	38.12	36.88	35.43	41.98
<b>-29</b>	21.38	42.48	42.01	41.37	40.60	39.71	38.65	37.42	35.97	42.57
<b>-33</b>	20.53	40.79	40.33	39.75	38.96	37.96	36.75	35.39	33.88	39.92
<b>-37.5</b>	17.81	35.44	35.02	34.43	33.67	32.71	31.56	30.25	28.75	33.56
<b>-42.5</b>	12.39	24.77	24.52	24.03	23.45	22.72	21.85	20.84	19.70	22.91
<b>-47.5</b>	10.93	21.93	21.80	21.44	20.99	20.42	19.72	18.87	17.89	20.91
<b>-55</b>	7.40	14.78	14.68	14.53	14.35	14.13	13.83	13.46	13.02	15.61
<b>-65</b>	4.01	7.99	7.94	7.87	7.78	7.67	7.55	7.40	7.23	8.78
<b>-75</b>	1.81	3.61	3.59	3.56	3.52	3.48	3.42	3.34	3.26	3.94
<b>-85</b>	0.19	0.39	0.38	0.38	0.38	0.38	0.37	0.36	0.36	0.43
<b>-90</b>										
<b>Total</b>	4215.44	7972.78	6842.44	5309.45	3894.17	2870.57	2149.24	1648.22	1316.46	1364.53

**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	0.02	0.02	0.03	0.05	0.06	0.05
<b>85</b>	0.04	0.06	0.11	0.17	0.25	0.36	0.41	0.63	0.71	0.47
<b>75</b>	1.24	1.25	1.49	1.72	1.92	2.07	1.92	2.48	2.27	1.15
<b>65</b>	5.91	5.54	6.02	6.30	6.32	6.13	5.17	5.99	4.97	2.20
<b>55</b>	10.19	9.23	9.61	9.58	9.08	8.29	6.64	7.34	5.84	2.46

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	12.40	10.95	10.96	10.37	9.33	8.03	6.12	6.49	4.96	2.04
<b>42.5</b>	20.94	18.35	18.13	16.59	14.13	11.36	8.15	8.19	5.94	2.37
<b>37.5</b>	28.39	24.94	24.71	22.50	18.69	14.31	9.63	9.15	6.31	2.43
<b>33</b>	34.09	30.16	30.02	27.50	22.81	17.02	10.89	9.79	6.44	2.41
<b>29</b>	36.63	32.86	33.03	30.48	25.42	18.88	11.71	9.99	6.31	2.31
<b>25.5</b>	35.83	32.53	33.16	30.90	25.93	19.37	11.86	9.75	5.92	2.12
<b>22.5</b>	39.79	36.04	37.14	35.06	29.65	22.31	13.61	10.90	6.36	2.24
<b>19.5</b>	36.50	32.60	33.60	32.05	27.45	20.78	12.66	9.94	5.63	1.95
<b>17</b>	31.71	27.79	28.46	27.34	23.68	17.98	10.97	8.52	4.71	1.62
<b>15</b>	34.34	29.36	29.77	28.74	25.11	19.14	11.70	9.01	4.87	1.66
<b>13</b>	37.13	30.92	31.01	29.98	26.40	20.23	12.36	9.45	5.03	1.70
<b>11</b>	40.14	32.65	32.26	31.06	27.48	21.22	12.97	9.85	5.17	1.74
<b>9</b>	43.21	34.45	33.45	32.00	28.42	22.09	13.50	10.20	5.30	1.78
<b>7</b>	45.77	35.95	34.40	32.80	29.24	22.83	13.96	10.51	5.41	1.81
<b>5</b>	47.82	37.07	35.13	33.44	29.93	23.45	14.39	10.81	5.51	1.84
<b>3</b>	49.35	37.88	35.67	33.89	30.41	23.86	14.68	11.05	5.60	1.86
<b>1</b>	25.03	19.16	17.99	17.05	15.32	12.02	7.40	5.58	2.82	0.94
<b>0</b>	25.21	19.30	18.08	17.11	15.38	12.07	7.44	5.62	2.83	0.94
<b>-1</b>	50.32	38.75	36.38	34.38	30.86	24.27	14.98	11.33	5.72	1.90
<b>-3</b>	48.99	38.32	36.34	34.44	30.88	24.27	14.99	11.37	5.76	1.91
<b>-5</b>	47.01	37.39	36.00	34.32	30.75	24.11	14.87	11.31	5.77	1.91
<b>-7</b>	44.89	36.29	35.50	34.05	30.45	23.85	14.70	11.20	5.76	1.92
<b>-9</b>	42.43	35.01	34.86	33.64	29.98	23.43	14.44	11.03	5.73	1.92
<b>-11</b>	40.00	33.79	34.20	33.10	29.33	22.87	14.09	10.79	5.68	1.91
<b>-13</b>	37.74	32.64	33.50	32.44	28.55	22.16	13.64	10.49	5.62	1.91
<b>-15</b>	35.53	31.42	32.58	31.57	27.65	21.34	13.10	10.13	5.53	1.89
<b>-17</b>	41.69	37.68	39.15	37.84	33.10	25.36	15.52	12.10	6.77	2.34
<b>-19.5</b>	46.79	42.80	44.37	42.64	37.07	28.20	17.22	13.68	7.91	2.76

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	43.67	39.80	41.13	39.27	33.80	25.52	15.54	12.69	7.65	2.70
<b>-25.5</b>	46.68	42.31	43.42	41.00	34.91	26.20	16.05	13.59	8.53	3.05
<b>-29</b>	47.11	42.29	42.75	39.81	33.63	25.20	15.81	14.06	9.18	3.33
<b>-33</b>	43.79	38.82	38.71	35.67	29.97	22.75	14.98	14.10	9.58	3.53
<b>-37.5</b>	36.48	32.12	31.78	29.14	24.76	19.65	13.88	13.79	9.70	3.62
<b>-42.5</b>	24.87	21.88	21.75	20.40	18.18	15.43	11.55	11.99	8.72	3.28
<b>-47.5</b>	23.02	20.72	21.40	21.12	19.89	17.83	13.95	14.97	11.14	4.23
<b>-55</b>	17.73	16.62	17.87	18.35	17.97	16.71	13.52	14.77	11.10	4.26
<b>-65</b>	10.11	9.60	10.48	10.93	10.88	10.24	8.34	9.14	6.90	2.69
<b>-75</b>	4.52	4.28	4.68	4.89	4.89	4.62	3.77	4.17	3.19	1.29
<b>-85</b>	0.49	0.46	0.50	0.53	0.54	0.51	0.43	0.48	0.38	0.16
<b>-90</b>										
<b>Total</b>	1375.51	1172.04	1171.56	1116.19	980.38	768.37	493.54	418.44	255.30	92.61

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
<b>90</b>			
	0.02	0.00	0.29
<b>85</b>			
	0.16	0.01	3.42
<b>75</b>			
	0.33	0.01	24.77
<b>65</b>			
	0.53	0.02	98.80
<b>55</b>			
	0.55	0.02	163.61
<b>47.5</b>			
	0.44	0.01	189.88
<b>42.5</b>			
	0.51	0.01	308.57
<b>37.5</b>			
	0.51	0.01	409.31
<b>33</b>			
	0.50	0.01	479.14
<b>29</b>			
	0.47	0.01	511.10
<b>25.5</b>			
	0.43	0.01	517.66
<b>22.5</b>			
	0.45	0.01	617.00
<b>19.5</b>			
	0.39	0.01	622.94
<b>17</b>			
	0.32	0.01	609.10

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

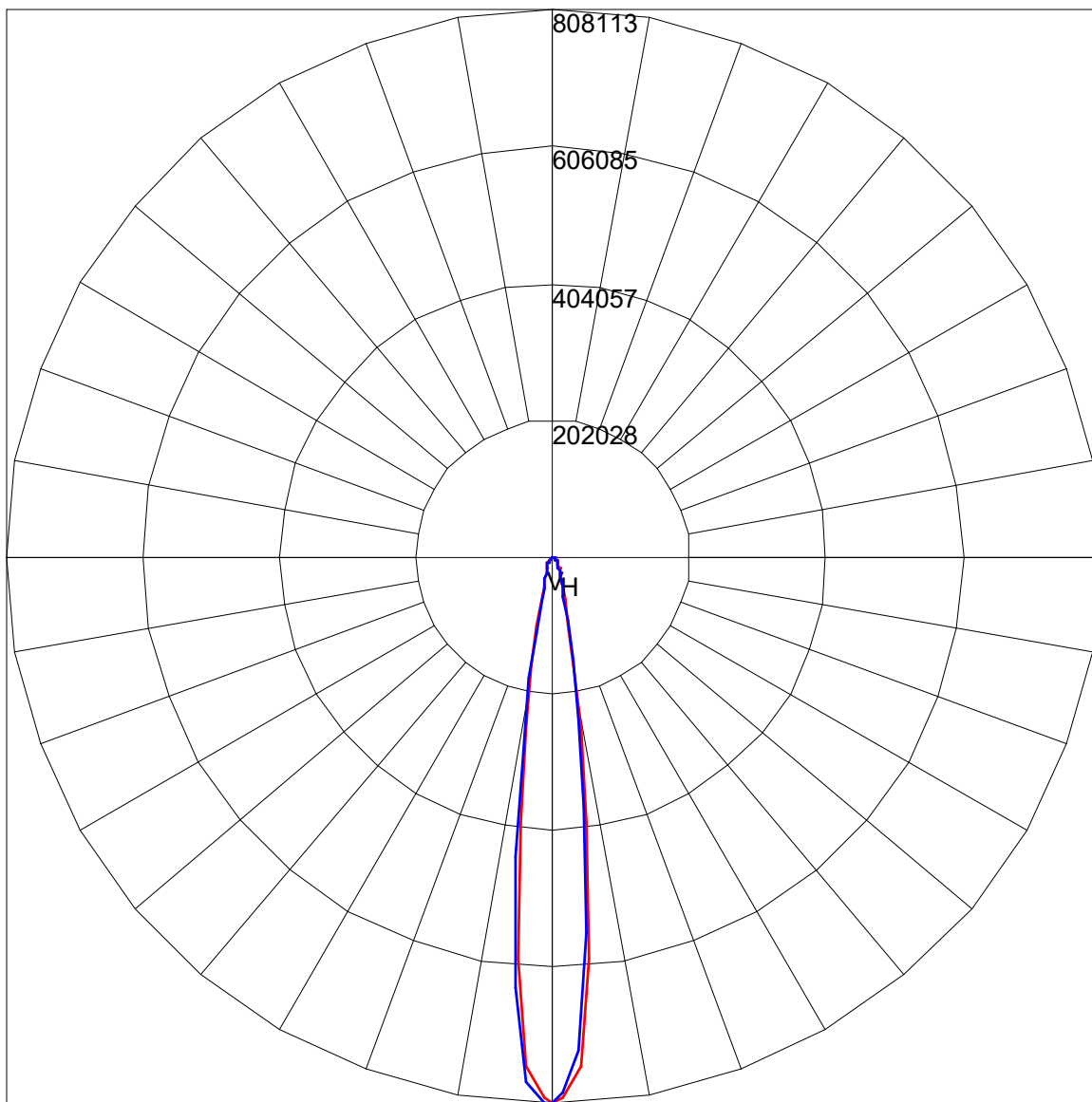
<b>15</b>	0.33	0.01	770.29
<b>13</b>	0.33	0.01	1013.03
<b>11</b>	0.34	0.01	1360.8
<b>9</b>	0.35	0.01	1846.14
<b>7</b>	0.35	0.01	2508.35
<b>5</b>	0.36	0.01	3232.81
<b>3</b>	0.36	0.01	3800.05
<b>1</b>	0.18	0.00	2040.11
<b>0</b>	0.18	0.00	2058.15
<b>-1</b>	0.36	0.01	3946.00
<b>-3</b>	0.37	0.01	3485.49
<b>-5</b>	0.37	0.01	2785.85
<b>-7</b>	0.37	0.01	2074.27
<b>-9</b>	0.37	0.01	1518.56
<b>-11</b>	0.37	0.01	1124.28
<b>-13</b>	0.37	0.01	854.33
<b>-15</b>	0.36	0.01	679.67
<b>-17</b>	0.45	0.01	706.67
<b>-19.5</b>	0.53	0.01	722.99
<b>-22.5</b>	0.52	0.01	633.33
<b>-25.5</b>	0.59	0.01	656.02
<b>-29</b>	0.64	0.01	656.00
<b>-33</b>	0.68	0.01	616.85
<b>-37.5</b>	0.70	0.01	528.82
<b>-42.5</b>	0.63	0.01	375.86
<b>-47.5</b>	0.82	0.02	364.01
<b>-55</b>	0.84	0.02	285.55
<b>-65</b>	0.55	0.01	164.10

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-VNF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

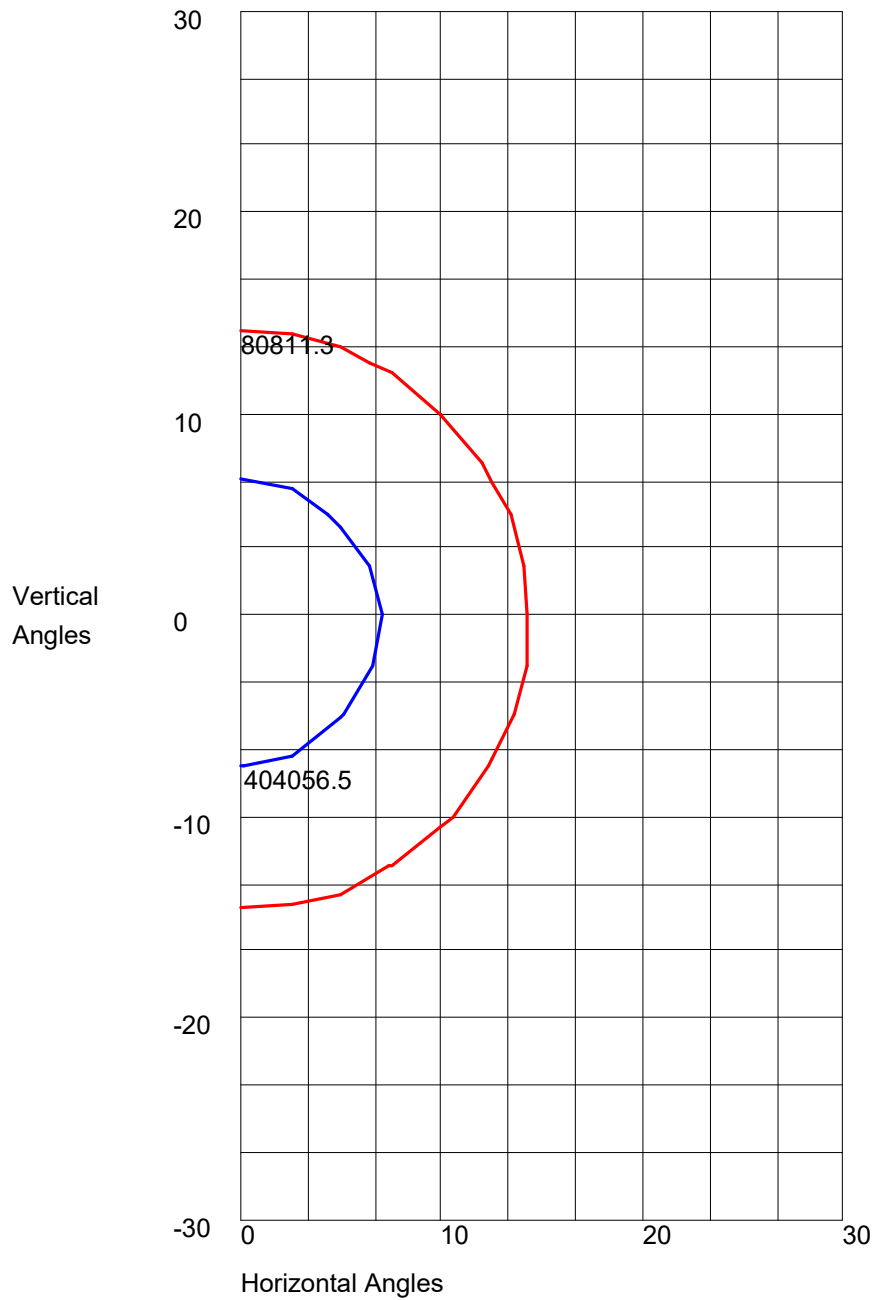
<b>-75</b>	0.28	0.01	74.12
<b>-85</b>	0.03	0.00	8.13
<b>-90</b>			
<b>Total</b>	18.55	0.42	45446.23

AXIAL CANDELA DISPLAY



Maximum Candela = 808113 Located At Horizontal Angle = 0, Vertical Angle = -1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 808113 Located At Horizontal Angle = 0, Vertical Angle = -1  
50% Maximum Candela = 404056.5  
10% Maximum Candela = 80811.3