



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-NF-40-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13166

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/30/22

[TEST DATE] 01/04/22

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-100L-NF-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	4 H x 4 V
Maximum Candela	351226
Maximum Candela Angle	-1H 1V
Horizontal Beam Angle (50%)	23.5
Vertical Beam Angle (50%)	23.6
Horizontal Field Angle (10%)	49.7
Vertical Field Angle (10%)	48.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	35623
Beam Efficiency	N.A.
Field Lumens	68594
Field Efficiency	N.A.
Spill Lumens	28162
Luminaire Lumens	96756
Total Efficiency	N.A.
Total Luminaire Watts	764.6
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	6	90	0
85	110	85	0
75	633	75	0
65	1504	65	204
55	3626	55	1887
47.5	6980	47.5	3712
42.5	10092	42.5	6301
37.5	13333	37.5	9505
33	16818	33	12766
29	22597	29	17839
25.5	32650	25.5	26229
22.5	45551	22.5	38002
19.5	62928	19.5	55298
17	82159	17	73588
15	103430	15	93309
13	142266	13	131054
11	197713	11	186157
9	256194	9	246137
7	305937	7	299162
5	336974	5	334044
3	348601	3	347922
1	351210	1	351163
0	351011	0	351011
-1	351210	-1	350225
-3	348601	-3	346889
-5	336974	-5	338263
-7	305937	-7	313321
-9	256194	-9	268548
-11	197713	-11	212007
-13	142266	-13	154940
-15	103430	-15	111767
-17	82159	-17	87337
-19.5	62928	-19.5	66148
-22.5	45551	-22.5	48307
-25.5	32650	-25.5	35433
-29	22597	-29	25180
-33	16818	-33	18532
-37.5	13333	-37.5	14655
-42.5	10092	-42.5	11625
-47.5	6980	-47.5	8362
-55	3626	-55	4668
-65	1504	-65	2178
-75	633	-75	1071
-85	110	-85	281
-90	6	-90	58

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**CANDELA TABULATION**

Maximum Candela = 351226

Beam Edge = 175613 Cd (50% of Max.)

Field Edge = 35122.6 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>	6	6	4	4	3	3	3	2	2	2
<b>85.0</b>	6	12	19	17	14	12	10	7	5	4
<b>75.0</b>	6	25	61	79	84	74	64	49	30	24
<b>65.0</b>	6	37	120	202	287	321	331	335	337	334
<b>55.0</b>	6	52	195	390	586	752	872	1022	1158	1293
<b>47.5</b>	6	65	258	533	840	1135	1416	1722	2023	2309
<b>42.5</b>	6	73	306	632	1060	1560	2021	2540	3078	3622
<b>37.5</b>	6	80	352	737	1350	2126	2813	3690	4629	5529
<b>33.0</b>	6	86	392	851	1654	2681	3687	4990	6308	7591
<b>29.0</b>	6	91	433	957	1932	3255	4601	6322	7984	9566
<b>25.5</b>	6	95	468	1050	2202	3769	5492	7550	9470	11122
<b>22.5</b>	6	98	496	1119	2421	4288	6241	8582	10699	12491
<b>19.5</b>	6	100	522	1192	2631	4765	7025	9573	11865	13843
<b>17.0</b>	6	102	542	1247	2814	5148	7639	10335	12724	15060
<b>15.0</b>	6	104	557	1289	2950	5466	8096	10898	13325	16091
<b>13.0</b>	6	105	571	1327	3077	5760	8504	11421	13877	17274
<b>11.0</b>	6	109	584	1363	3195	6028	8864	11881	14504	18359
<b>9.0</b>	6	109	596	1396	3301	6270	9184	12266	15124	19336
<b>7.0</b>	6	109	606	1426	3396	6484	9462	12594	15672	20352
<b>5.0</b>	6	109	620	1452	3479	6667	9695	12864	16136	21321
<b>3.0</b>	6	110	625	1480	3563	6855	9944	13087	16506	22058
<b>1.0</b>	6	110	630	1496	3605	6938	10043	13273	16738	22484
<b>0.0</b>	6	110	633	1504	3626	6980	10092	13333	16818	22597
<b>-1.0</b>	6	110	635	1513	3637	7010	10152	13392	16847	22658
<b>-3.0</b>	6	111	639	1531	3658	7071	10272	13445	16832	22585
<b>-5.0</b>	6	112	644	1537	3637	7022	10223	13444	16833	22340
<b>-7.0</b>	6	112	640	1544	3617	6984	10153	13385	16747	21820
<b>-9.0</b>	6	113	639	1546	3600	6911	10034	13275	16556	21192
<b>-11.0</b>	6	114	636	1541	3569	6801	9868	13116	16199	20493
<b>-13.0</b>	6	111	633	1530	3524	6654	9655	12892	15755	19642
<b>-15.0</b>	6	111	628	1515	3464	6471	9427	12597	15329	18570
<b>-17.0</b>	6	110	621	1495	3390	6251	9187	12211	14822	17780
<b>-19.5</b>	6	109	612	1464	3276	5927	8702	11647	14132	16781
<b>-22.5</b>	6	107	598	1419	3135	5561	8063	10887	13390	15572
<b>-25.5</b>	6	105	582	1374	2971	5140	7410	10052	12506	14322
<b>-29.0</b>	6	102	558	1311	2746	4685	6562	8964	11240	13161
<b>-33.0</b>	6	98	526	1235	2496	4112	5628	7613	9596	11340
<b>-37.5</b>	6	93	491	1139	2192	3533	4659	6145	7737	9173
<b>-42.5</b>	6	86	447	1024	1882	2904	3757	4773	5851	6883
<b>-47.5</b>	6	77	396	917	1612	2378	2996	3720	4397	5083
<b>-55.0</b>	6	63	322	752	1254	1721	2082	2486	2864	3188
<b>-65.0</b>	6	46	219	489	827	1088	1266	1441	1594	1709
<b>-75.0</b>	6	32	124	258	436	571	662	742	809	865
<b>-85.0</b>	6	16	48	82	127	165	188	207	221	233
<b>-90.0</b>	6	8	17	25	33	38	41	45	48	50

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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	2	2	1	1	1	1	1	0	0	0
85.0	2	2	1	1	1	1	1	0	0	0
75.0	14	8	6	4	2	1	1	0	0	0
65.0	318	302	299	289	278	266	259	250	238	223
55.0	1395	1497	1589	1651	1701	1750	1795	1831	1857	1875
47.5	2559	2820	3028	3187	3320	3429	3515	3584	3619	3625
42.5	4130	4561	4954	5204	5438	5648	5816	5981	6126	6228
37.5	6351	6991	7568	7975	8271	8609	8897	9134	9323	9437
33.0	8651	9478	10221	10787	11169	11518	11872	12180	12439	12628
29.0	10747	11704	12625	13374	13988	14794	15496	16064	16663	17233
25.5	12511	13699	15250	16785	18237	19699	20981	22808	24390	25454
22.5	14142	16023	18612	21199	23818	26711	29420	32512	35001	36750 *
19.5	16112	19140	23202	27925	32017	36410 *	40753 *	45216 *	48747 *	51335 *
17.0	18079	22667	28796	34998	40253 *	46378 *	51782 *	58066 *	63445 *	67455 *
15.0	20124	25844	33690	41205 *	48355 *	55378 *	62805 *	69909 *	78921 *	85653 *
13.0	22147	29146	38792 *	48478 *	56620 *	65805 *	75810 *	87340 *	99367 *	114011 *
11.0	23975	32251	43577 *	54997 *	65463 *	77246 *	91207 *	111329 *	132695 *	153682 *
9.0	26264	35825 *	48646 *	61755 *	73395 *	90392 *	113207 *	139714 *	177108 *	208050 *
7.0	28317	38814 *	52856 *	67898 *	83611 *	104187 *	136855 *	179622 *	225567 *	260840 *
5.0	29986	41499 *	56344 *	73320 *	92569 *	121788 *	160660 *	213234 *	261818 *	301031 *
3.0	31243	43799 *	60227 *	78433 *	99248 *	135513 *	185915 *	241048 *	293257 *	320507 *
1.0	32264	45322 *	62555 *	81723 *	103408 *	141546 *	196228 *	254394 *	304317 *	335420 *
0.0	32650	45551 *	62928 *	82159 *	103430 *	142266 *	197713 *	256194 *	305937 *	336974 *
-1.0	32596	45463 *	62513 *	81562 *	103835 *	142567 *	200349 *	259865 *	308435 *	338471 *
-3.0	32246	44703 *	61457 *	79683 *	101526 *	137854 *	190229 *	249821 *	299217 *	326779 *
-5.0	31668	43614 *	59653 *	76466 *	97944 *	129123 *	170303 *	225881 *	274436 *	312724 *
-7.0	30615	41670 *	56166 *	72211 *	89604 *	112299 *	147940 *	194842 *	244525 *	277406 *
-9.0	28805	39228 *	52897 *	66740 *	79732 *	99064 *	126020 *	159194 *	197886 *	231931 *
-11.0	27000	36289 *	48169 *	59795 *	71718 *	85909 *	104281 *	127889 *	152284 *	176997 *
-13.0	25526	33200	43421 *	53634 *	62918 *	73923 *	86680 *	101286 *	116129 *	134944 *
-15.0	23565	29822	38442 *	46936 *	55123 *	63557 *	72943 *	81463 *	92514 *	102318 *
-17.0	21649	26638	33774	40980 *	47264 *	54651 *	61240 *	68313 *	74468 *	79369 *
-19.5	19803	23390	28309	33948	38927 *	44429 *	49334 *	54269 *	58060 *	60881 *
-22.5	17837	20294	23520	26982	30351	33853	37213 *	40635 *	43245 *	45324 *
-25.5	16161	17923	20040	22042	23997	26003	27780	30017	31888	33382
-29.0	14401	15726	17126	18310	19205	20304	21303	22168	23081	23962
-33.0	12693	13696	14529	15332	15945	16493	17039	17530	17939	18259
-37.5	10358	11306	12190	12857	13334	13686	13998	14262	14453	14593
-42.5	7842	8589	9297	9820	10208	10571	10897	11166	11377	11535
-47.5	5662	6197	6679	7050	7338	7593	7812	7988	8128	8233
-55.0	3477	3703	3920	4099	4223	4330	4418	4489	4545	4586
-65.0	1808	1881	1956	2012	2054	2090	2117	2138	2154	2165
-75.0	911	942	964	980	991	1005	1019	1031	1043	1058
-85.0	242	252	261	269	275	277	284	283	283	283
-90.0	51	53	55	56	57	58	58	58	58	58

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	1	1
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	219	209	204	209	219	223	238	250	259	266

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**CANDELA TABULATION - (Cont.)**

55.0	1897	1890	1887	1890	1897	1875	1857	1831	1795	1750
47.5	3659	3694	3712	3694	3659	3625	3619	3584	3515	3429
42.5	6335	6312	6301	6312	6335	6228	6126	5981	5816	5648
37.5	9482	9520	9505	9520	9482	9437	9323	9134	8897	8609
33.0	12731	12774	12766	12774	12731	12628	12439	12180	11872	11518
29.0	17576	17796	17839	17796	17576	17233	16663	16064	15496	14794
25.5	26005	26228	26229	26228	26005	25454	24390	22808	20981	19699
22.5	37672 *	38105 *	38002 *	38105 *	37672 *	36750 *	35001	32512	29420	26711
19.5	53102 *	54420 *	55298 *	54420 *	53102 *	51335 *	48747 *	45216 *	40753 *	36410 *
17.0	70441 *	72450 *	73588 *	72450 *	70441 *	67455 *	63445 *	58066 *	51782 *	46378 *
15.0	90178 *	92952 *	93309 *	92952 *	90178 *	85653 *	78921 *	69909 *	62805 *	55378 *
13.0	124291 *	129802 *	131054 *	129802 *	124291 *	114011 *	99367 *	87340 *	75810 *	65805 *
11.0	173136 *	186304 *	186157 *	186304 *	173136 *	153682 *	132695 *	111329 *	91207 *	77246 *
9.0	230996 *	246903 *	246137 *	246903 *	230996 *	208050 *	177108 *	139714 *	113208 *	90392 *
7.0	286613 *	299734 *	299162 *	299734 *	286613 *	260840 *	225567 *	179622 *	136855 *	104187 *
5.0	320078 *	334302 *	334044 *	334302 *	320078 *	301031 *	261818 *	213234 *	160660 *	121788 *
3.0	339061 *	346602 *	347922 *	346602 *	339061 *	320507 *	293257 *	241048 *	185915 *	135513 *
1.0	347252 *	351226 *	351163 *	351226 *	347252 *	335420 *	304317 *	254394 *	196228 *	141546 *
0.0	348601 *	351210 *	351011 *	351210 *	348601 *	336974 *	305937 *	256194 *	197713 *	142266 *
-1.0	348036 *	351027 *	350225 *	351027 *	348036 *	338471 *	308435 *	259865 *	200349 *	142567 *
-3.0	343197 *	347053 *	346889 *	347053 *	343197 *	326779 *	299217 *	249821 *	190229 *	137854 *
-5.0	328060 *	339373 *	338263 *	339373 *	328060 *	312724 *	274436 *	225881 *	170303 *	129123 *
-7.0	303750 *	313472 *	313321 *	313472 *	303750 *	277406 *	244525 *	194842 *	147940 *	112299 *
-9.0	257457 *	268045 *	268548 *	268045 *	257457 *	231931 *	197886 *	159194 *	126020 *	99064 *
-11.0	202361 *	211233 *	212007 *	211233 *	202361 *	176997 *	152284 *	127889 *	104281 *	85909 *
-13.0	149471 *	154405 *	154940 *	154405 *	149471 *	134944 *	116129 *	101286 *	86680 *	73923 *
-15.0	109094 *	111910 *	111767 *	111910 *	109094 *	102318 *	92514 *	81463 *	72943 *	63557 *
-17.0	84232 *	87097 *	87337 *	87097 *	84232 *	79369 *	74468 *	68313 *	61240 *	54651 *
-19.5	64244 *	66059 *	66148 *	66059 *	64244 *	60881 *	58060 *	54269 *	49334 *	44429 *
-22.5	46910 *	48048 *	48307 *	48048 *	46910 *	45324 *	43245 *	40635 *	37213 *	33853
-25.5	34449	35190 *	35433 *	35190 *	34449	33382	31888	30017	27780	26003
-29.0	24578	25034	25180	25034	24578	23962	23081	22168	21303	20304
-33.0	18480	18543	18532	18543	18480	18259	17939	17530	17039	16493
-37.5	14683	14683	14655	14683	14683	14593	14453	14262	13998	13686
-42.5	11693	11648	11625	11648	11693	11535	11377	11166	10897	10571
-47.5	8348	8357	8362	8357	8348	8233	8128	7988	7812	7593
-55.0	4642	4659	4668	4659	4642	4586	4545	4489	4418	4330
-65.0	2179	2178	2178	2178	2179	2165	2154	2138	2117	2090
-75.0	1063	1068	1071	1068	1063	1058	1043	1031	1019	1005
-85.0	282	281	281	281	282	283	283	283	284	277
-90.0	58	58	58	58	58	58	58	58	58	58

**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	1	1	1	2	2	2	2	2	3	3
85.0	1	1	1	2	2	4	5	7	10	12
75.0	2	4	6	8	14	24	30	49	64	74
65.0	278	289	299	302	318	334	337	335	331	321
55.0	1701	1651	1589	1497	1395	1293	1158	1022	872	752
47.5	3320	3187	3028	2820	2559	2309	2023	1722	1416	1135
42.5	5438	5204	4954	4561	4130	3622	3078	2540	2021	1560
37.5	8271	7975	7568	6991	6351	5529	4629	3690	2813	2126
33.0	11169	10787	10221	9478	8651	7591	6308	4990	3687	2681
29.0	13988	13374	12625	11704	10747	9566	7984	6322	4601	3255
25.5	18237	16785	15250	13699	12511	11122	9470	7550	5492	3769

**IES FLOOD REPORT**  
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**CANDELA TABULATION - (Cont.)**

22.5	23818	21199	18612	16023	14142	12491	10699	8582	6241	4288
19.5	32017	27925	23202	19140	16112	13843	11865	9573	7025	4765
17.0	40253 *	34998	28796	22667	18079	15060	12724	10335	7639	5148
15.0	48355 *	41205 *	33690	25844	20124	16091	13325	10898	8096	5466
13.0	56620 *	48478 *	38792 *	29146	22147	17274	13877	11421	8504	5760
11.0	65463 *	54997 *	43577 *	32251	23975	18359	14504	11881	8864	6028
9.0	73395 *	61755 *	48646 *	35825 *	26264	19336	15124	12266	9184	6270
7.0	83611 *	67898 *	52856 *	38814 *	28317	20352	15672	12594	9462	6484
5.0	92569 *	73320 *	56344 *	41499 *	29986	21321	16136	12864	9695	6667
3.0	99248 *	78433 *	60227 *	43799 *	31243	22058	16506	13087	9944	6855
1.0	103408 *	81723 *	62555 *	45322 *	32264	22484	16738	13273	10043	6938
0.0	103430 *	82159 *	62928 *	45551 *	32650	22597	16818	13333	10092	6980
-1.0	103835 *	81562 *	62513 *	45463 *	32596	22658	16847	13392	10152	7010
-3.0	101526 *	79683 *	61457 *	44703 *	32246	22585	16832	13445	10272	7071
-5.0	97944 *	76466 *	59653 *	43614 *	31668	22340	16833	13444	10223	7022
-7.0	89604 *	72211 *	56166 *	41670 *	30615	21820	16747	13385	10153	6984
-9.0	79732 *	66740 *	52897 *	39228 *	28805	21192	16556	13275	10034	6911
-11.0	71718 *	59795 *	48169 *	36289 *	27000	20493	16199	13116	9868	6801
-13.0	62918 *	53634 *	43421 *	33200	25526	19642	15755	12892	9656	6654
-15.0	55123 *	46936 *	38442 *	29822	23565	18570	15329	12597	9427	6471
-17.0	47264 *	40980 *	33774	26638	21649	17780	14822	12211	9187	6251
-19.5	38927 *	33948	28309	23390	19803	16781	14132	11647	8702	5927
-22.5	30351	26982	23520	20294	17837	15572	13390	10887	8063	5561
-25.5	23997	22042	20040	17923	16161	14322	12506	10052	7410	5140
-29.0	19205	18310	17126	15726	14401	13161	11240	8964	6562	4685
-33.0	15945	15332	14529	13696	12693	11340	9596	7613	5628	4112
-37.5	13334	12857	12190	11306	10358	9173	7737	6145	4659	3533
-42.5	10208	9820	9297	8589	7842	6883	5851	4773	3757	2904
-47.5	7338	7050	6679	6197	5662	5083	4397	3720	2996	2378
-55.0	4223	4099	3920	3703	3477	3188	2864	2486	2082	1721
-65.0	2054	2012	1956	1881	1808	1709	1594	1441	1266	1088
-75.0	991	980	964	942	911	865	809	742	662	571
-85.0	275	269	261	252	242	233	221	207	188	165
-90.0	57	56	55	53	51	50	48	45	41	38

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	3	4	4	6	6
85.0	14	17	19	12	6
75.0	84	79	61	25	6
65.0	287	202	120	37	6
55.0	586	390	195	52	6
47.5	840	533	258	65	6
42.5	1060	632	306	73	6
37.5	1350	737	352	80	6
33.0	1654	851	392	86	6
29.0	1932	957	433	91	6
25.5	2202	1050	468	95	6
22.5	2421	1119	496	98	6
19.5	2631	1192	522	100	6
17.0	2814	1247	542	102	6
15.0	2950	1289	557	104	6
13.0	3077	1327	571	105	6
11.0	3195	1363	584	109	6
9.0	3301	1396	596	109	6

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

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	3396	1426	606	109	6
<b>5.0</b>	3479	1452	620	109	6
<b>3.0</b>	3563	1480	625	110	6
<b>1.0</b>	3605	1496	630	110	6
<b>0.0</b>	3626	1504	633	110	6
<b>-1.0</b>	3637	1513	635	110	6
<b>-3.0</b>	3658	1531	639	111	6
<b>-5.0</b>	3637	1537	644	112	6
<b>-7.0</b>	3617	1544	640	112	6
<b>-9.0</b>	3600	1546	639	113	6
<b>-11.0</b>	3569	1541	636	114	6
<b>-13.0</b>	3524	1530	633	111	6
<b>-15.0</b>	3464	1515	628	111	6
<b>-17.0</b>	3390	1495	621	110	6
<b>-19.5</b>	3276	1464	612	109	6
<b>-22.5</b>	3135	1419	598	107	6
<b>-25.5</b>	2971	1374	582	105	6
<b>-29.0</b>	2746	1311	558	102	6
<b>-33.0</b>	2496	1235	526	98	6
<b>-37.5</b>	2192	1139	491	93	6
<b>-42.5</b>	1882	1024	447	86	6
<b>-47.5</b>	1612	917	396	77	6
<b>-55.0</b>	1254	752	322	63	6
<b>-65.0</b>	827	489	219	46	6
<b>-75.0</b>	436	258	124	32	6
<b>-85.0</b>	127	82	48	16	6
<b>-90.0</b>	33	25	17	8	6

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 48378.24

Total Field Lumens (one side of beam only) = 34297.22

\* 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	0.31	0.65	0.67	0.70	0.74	0.76	0.79	0.81	0.84	1.08
55	3.19	6.42	6.40	6.35	6.30	6.20	6.06	5.90	5.74	6.92
47.5	6.39	12.72	12.60	12.47	12.32	12.06	11.72	11.30	10.83	12.82
42.5	7.62	15.22	15.08	14.84	14.56	14.17	13.71	13.18	12.55	14.80
37.5	12.05	24.09	23.92	23.56	23.05	22.37	21.58	20.66	19.68	23.23
33	15.27	30.48	30.27	29.87	29.24	28.40	27.42	26.31	25.17	29.74
29	18.63	37.06	36.57	35.72	34.60	33.36	31.99	30.42	28.88	33.99
25.5	23.48	46.67	45.87	44.39	42.19	39.55	37.00	34.51	31.97	36.72
22.5	29.37	58.45	57.38	55.25	51.90	47.57	43.27	39.22	35.15	38.97
19.5	42.45 *	83.70 *	81.52 *	78.08 *	73.06 *	66.55 *	59.57	52.74	46.10	49.32
17	48.69 *	95.29 *	92.04 *	87.47 *	81.24 *	73.43 *	65.30 *	57.29 *	49.48	51.94
15	50.61 *	99.25 *	95.33 *	89.51 *	81.55 *	72.76 *	64.46 *	56.26 *	48.26 *	50.15
13	68.10 *	133.10 *	125.84 *	114.49 *	101.21 *	88.75 *	77.41 *	66.84 *	57.00 *	58.64 *
11	96.45 *	186.77 *	171.72 *	151.39 *	129.92 *	109.70 *	92.38 *	78.36 *	66.04 *	67.20 *
9	131.82 *	254.90 *	232.72 *	203.43 *	169.17 *	136.63 *	110.85 *	90.59 *	74.84 *	75.56 *
7	166.30 *	323.97 *	299.76 *	264.03 *	217.79 *	170.80 *	132.48 *	103.91 *	83.93 *	83.58 *
5	193.00 *	377.70 *	355.08 *	317.85 *	265.51 *	207.09 *	155.97 *	118.86 *	92.93 *	90.55 *
3	207.57 *	407.93 *	389.15 *	356.44 *	304.46 *	240.24 *	179.92 *	132.74 *	100.60 *	97.02 *
1	212.75 *	421.36 *	407.85 *	379.73 *	329.69 *	263.25 *	196.41 *	141.78 *	106.23 *	102.31 *
0	106.96 *	212.83 *	207.88 *	194.28 *	169.04 *	135.67 *	100.97 *	72.51 *	54.27 *	52.32 *
-1	106.88 *	212.92 *	208.46 *	195.36 *	170.49 *	137.11 *	101.73 *	72.72 *	54.31 *	52.28 *
	212.49 *	422.93 *	412.18 *	385.60 *	337.03 *	270.06 *	199.92 *	143.57 *	107.34 *	103.13 *

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

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	208.89 *	413.30 *	398.29 *	367.51 *	316.52 *	250.85 *	186.96 *	137.86 *	104.13 *	100.25 *
<b>-5</b>	198.67 *	391.07 *	371.30 *	335.98 *	283.44 *	221.67 *	166.75 *	126.78 *	98.45 *	95.64 *
<b>-7</b>	177.18 *	347.86 *	325.30 *	288.32 *	240.24 *	188.38 *	144.60 *	112.52 *	90.27 *	89.68 *
<b>-9</b>	146.18 *	285.88 *	263.98 *	229.96 *	192.22 *	155.20 *	123.73 *	99.43 *	81.39 *	82.30 *
<b>-11</b>	111.57 *	218.41 *	201.69 *	175.81 *	150.09 *	126.03 *	104.52 *	87.03 *	72.63 *	74.13 *
<b>-13</b>	81.18 *	159.78 *	150.66 *	135.08 *	118.06 *	102.70 *	88.52 *	75.52 *	64.01 *	65.97 *
<b>-15</b>	60.63 *	119.43 *	113.95 *	105.62 *	95.55 *	85.18 *	75.20 *	65.20 *	55.72 *	57.90 *
<b>-17</b>	58.38 *	114.78 *	109.67 *	103.29 *	96.19 *	87.43 *	78.08 *	68.45 *	58.97 *	61.93
<b>-19.5</b>	52.22 *	102.86 *	99.07 *	94.29 *	88.78 *	81.65 *	73.67 *	65.42 *	57.19	61.16
<b>-22.5</b>	38.15 *	75.16 *	72.96 *	69.90 *	65.96 *	61.04	55.80	50.63	45.40	50.22
<b>-25.5</b>	32.21	63.53	61.88	59.54	56.56	53.16	49.74	46.30	42.81	49.05
<b>-29</b>	26.59	52.75	51.83	50.43	48.70	46.82	44.77	42.53	40.28	47.22
<b>-33</b>	22.76	45.47	45.13	44.47	43.56	42.41	41.04	39.54	37.86	44.67
<b>-37.5</b>	20.03	40.11	39.88	39.35	38.65	37.74	36.61	35.32	33.83	39.92
<b>-42.5</b>	15.23	30.48	30.24	29.74	29.15	28.39	27.47	26.39	25.19	29.69
<b>-47.5</b>	14.88	29.69	29.41	28.96	28.45	27.79	26.99	26.03	24.94	29.49
<b>-55</b>	10.42	20.79	20.62	20.37	20.10	19.74	19.30	18.76	18.14	21.67
<b>-65</b>	4.95	9.88	9.82	9.72	9.60	9.46	9.28	9.07	8.84	10.69
<b>-75</b>	2.06	4.10	4.08	4.04	3.98	3.93	3.85	3.77	3.68	4.47
<b>-85</b>	0.26	0.52	0.52	0.52	0.51	0.51	0.50	0.49	0.48	0.58
<b>-90</b>										
<b>Total</b>	3042.8	5990.24	5708.54	5233.74	4571.38	3806.57	3088.28	2507.53	2076.38	2148.94

**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>	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.06	0.07	0.06
<b>85</b>	0.04	0.05	0.10	0.16	0.25	0.38	0.43	0.66	0.74	0.46
<b>75</b>	1.31	1.34	1.63	1.89	2.10	2.27	2.13	2.74	2.48	1.20
<b>65</b>	7.86	7.33	7.91	8.15	7.98	7.46	6.13	6.95	5.57	2.36
<b>55</b>	14.29	12.95	13.43	13.28	12.43	11.00	8.43	8.88	6.70	2.68

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

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	16.38	14.68	14.95	14.40	13.10	11.22	8.25	8.21	5.83	2.25
<b>42.5</b>	25.67	22.99	23.26	22.00	19.50	16.13	11.47	10.89	7.19	2.64
<b>37.5</b>	32.88	29.55	29.98	28.26	24.70	19.92	13.70	12.56	7.86	2.73
<b>33</b>	37.56	33.87	34.64	32.84	28.65	22.86	15.31	13.61	8.21	2.74
<b>29</b>	39.77	35.54	36.44	34.85	30.68	24.46	16.13	13.95	8.17	2.65
<b>25.5</b>	40.68	35.29	35.73	34.29	30.47	24.38	15.98	13.59	7.75	2.44
<b>22.5</b>	49.25	40.96	40.22	38.30	34.18	27.49	18.02	15.12	8.40	2.60
<b>19.5</b>	50.01	39.65	37.37	34.91	31.12	25.20	16.54	13.72	7.50	2.28
<b>17</b>	47.34	36.19	32.86	29.86	26.46	21.56	14.18	11.70	6.31	1.89
<b>15</b>	54.37	40.59	35.84	31.62	27.71	22.70	14.98	12.33	6.57	1.95
<b>13</b>	61.32 *	44.88	38.74	33.42	28.92	23.72	15.70	12.90	6.82	2.00
<b>11</b>	68.37 *	49.38	41.67	35.15	30.09	24.61	16.34	13.43	7.04	2.05
<b>9</b>	75.13 *	53.93	44.67	36.80	31.14	25.37	16.90	13.90	7.24	2.09
<b>7</b>	80.83 *	57.85	47.37	38.37	32.04	26.02	17.39	14.31	7.42	2.14
<b>5</b>	86.10 *	61.16 *	49.57	39.69	32.79	26.59	17.85	14.69	7.59	2.17
<b>3</b>	90.38 *	63.70 *	51.20	40.61	33.35	27.03	18.18	14.98	7.72	2.20
<b>1</b>	46.14 *	32.51 *	26.06	20.53	16.83	13.63	9.17	7.56	3.89	1.11
<b>0</b>	46.16 *	32.61 *	26.18	20.60	16.90	13.70	9.21	7.59	3.91	1.11
<b>-1</b>	91.34 *	64.70 *	52.16	41.21	33.86	27.56	18.57	15.27	7.86	2.25
<b>-3</b>	89.33 *	63.54 *	51.57	41.03	33.88	27.63	18.62	15.28	7.88	2.26
<b>-5</b>	85.78 *	61.59 *	50.44	40.59	33.80	27.53	18.51	15.19	7.86	2.27
<b>-7</b>	81.02 *	58.57	48.54	39.84	33.55	27.32	18.35	15.08	7.84	2.27
<b>-9</b>	75.32 *	54.81	46.20	38.87	33.10	27.00	18.10	14.92	7.80	2.27
<b>-11</b>	68.70 *	50.93	43.91	37.64	32.43	26.55	17.75	14.68	7.73	2.26
<b>-13</b>	61.80 *	46.79	41.37	36.18	31.66	25.99	17.34	14.37	7.63	2.24
<b>-15</b>	54.88	42.44	38.65	34.72	30.75	25.32	16.87	13.99	7.50	2.22
<b>-17</b>	59.77	47.73	45.02	41.45	36.94	30.43	20.23	16.83	9.15	2.73
<b>-19.5</b>	61.11	50.91	49.75	46.89	42.02	34.38	22.81	19.18	10.60	3.19

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

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	52.32	45.21	45.41	43.69	39.31	31.85	21.14	18.01	10.15	3.10
<b>-25.5</b>	52.86	46.90	48.13	46.81	41.87	33.67	22.42	19.43	11.18	3.48
<b>-29</b>	52.10	47.18	48.90	47.34	41.87	33.55	22.60	20.06	11.85	3.78
<b>-33</b>	49.64	45.13	46.45	44.46	39.14	31.55	21.72	19.83	12.09	3.97
<b>-37.5</b>	44.13	39.75	40.58	38.69	34.28	28.19	19.99	18.78	11.86	4.03
<b>-42.5</b>	32.80	29.52	30.17	29.00	26.22	22.23	16.20	15.68	10.33	3.62
<b>-47.5</b>	32.79	29.80	30.94	30.41	28.26	24.68	18.53	18.66	12.93	4.66
<b>-55</b>	24.44	22.68	24.12	24.42	23.46	21.21	16.57	17.47	12.63	4.64
<b>-65</b>	12.25	11.57	12.54	12.99	12.83	11.99	9.65	10.44	7.64	2.84
<b>-75</b>	5.16	4.90	5.33	5.56	5.54	5.25	4.27	4.64	3.43	1.33
<b>-85</b>	0.66	0.62	0.68	0.72	0.73	0.70	0.58	0.65	0.51	0.22
<b>-90</b>										
<b>Total</b>	2060.05	1612.28	1470.69	1312.53	1146.94	942.32	643.26	562.74	327.43	105.43

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.03	0.00		0.37
<b>85</b>				
	0.15	0.01		3.49
<b>75</b>				
	0.32	0.01		26.78
<b>65</b>				
	0.53	0.02		127.74
<b>55</b>				
	0.56	0.02		219.87
<b>47.5</b>				
	0.46	0.01		245.49
<b>42.5</b>				
	0.54	0.01		376.46
<b>37.5</b>				
	0.54	0.01		474.86
<b>33</b>				
	0.53	0.01		552.07
<b>29</b>				
	0.50	0.01		625.51
<b>25.5</b>				
	0.46	0.01		697.60
<b>22.5</b>				
	0.48	0.01		908.11
<b>19.5</b>				
	0.42	0.01		960.89
<b>17</b>				
	0.34	0.01		936.85

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

**LUMENS TABULATION - (Cont.)**

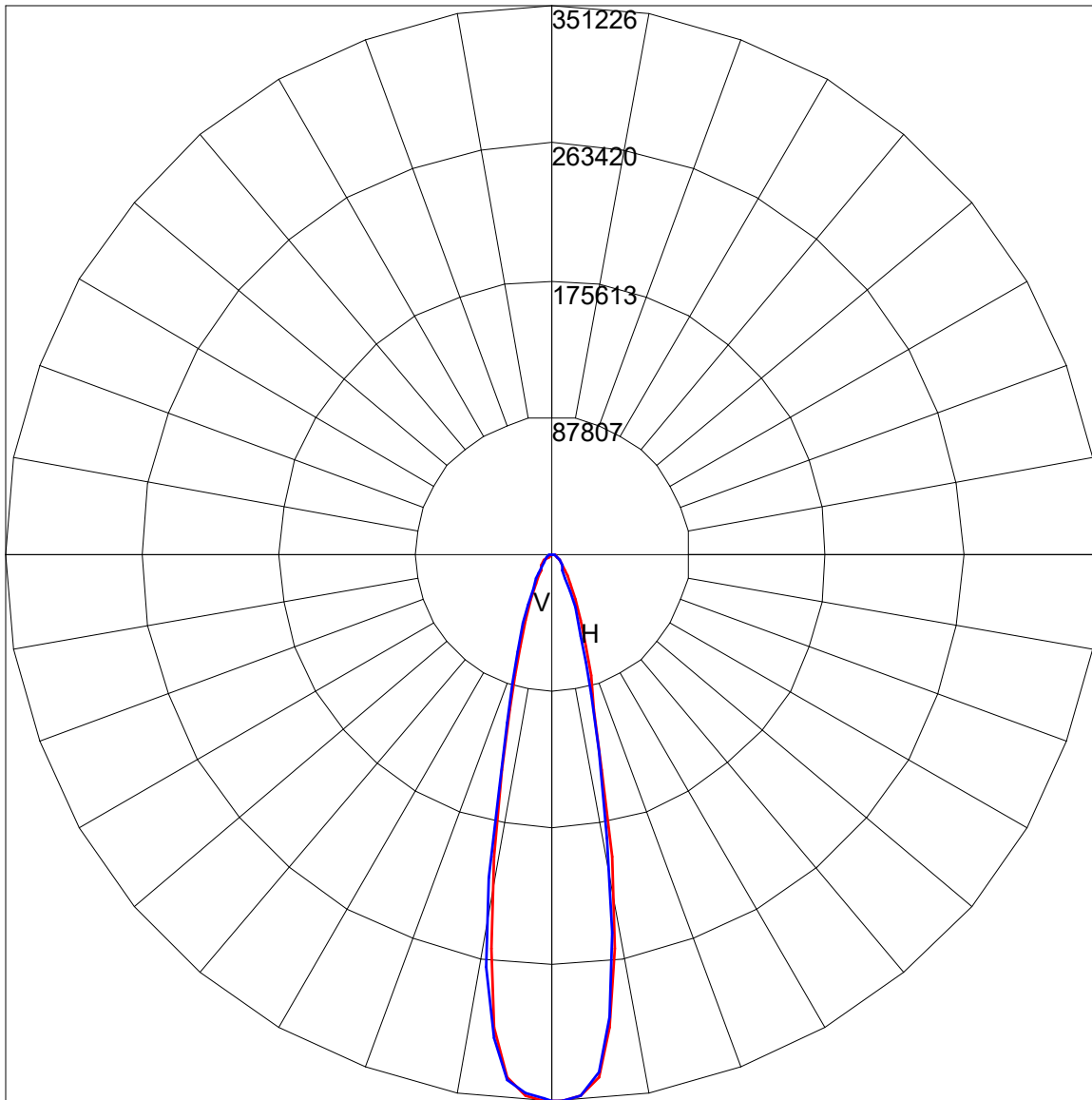
<b>15</b>	0.35	0.01	1140.39
<b>13</b>	0.36	0.01	1418.72
<b>11</b>	0.37	0.01	1769.00
<b>9</b>	0.38	0.01	2154.12
<b>7</b>	0.38	0.01	2498.69
<b>5</b>	0.39	0.01	2754.65
<b>3</b>	0.39	0.01	2911.12
<b>1</b>	0.20	0.00	1484.35
<b>0</b>	0.20	0.00	1490.44
<b>-1</b>	0.39	0.01	2949.45
<b>-3</b>	0.40	0.01	2836.00
<b>-5</b>	0.40	0.01	2633.71
<b>-7</b>	0.40	0.01	2337.14
<b>-9</b>	0.40	0.01	1979.04
<b>-11</b>	0.39	0.01	1624.91
<b>-13</b>	0.39	0.01	1327.25
<b>-15</b>	0.39	0.01	1102.12
<b>-17</b>	0.48	0.01	1147.93
<b>-19.5</b>	0.57	0.01	1117.72
<b>-22.5</b>	0.55	0.01	895.97
<b>-25.5</b>	0.62	0.01	842.17
<b>-29</b>	0.68	0.01	781.83
<b>-33</b>	0.72	0.02	721.61
<b>-37.5</b>	0.74	0.02	642.49
<b>-42.5</b>	0.66	0.01	488.41
<b>-47.5</b>	0.85	0.02	499.13
<b>-55</b>	0.86	0.02	382.44
<b>-65</b>	0.56	0.01	196.62

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

**LUMENS TABULATION - (Cont.)**

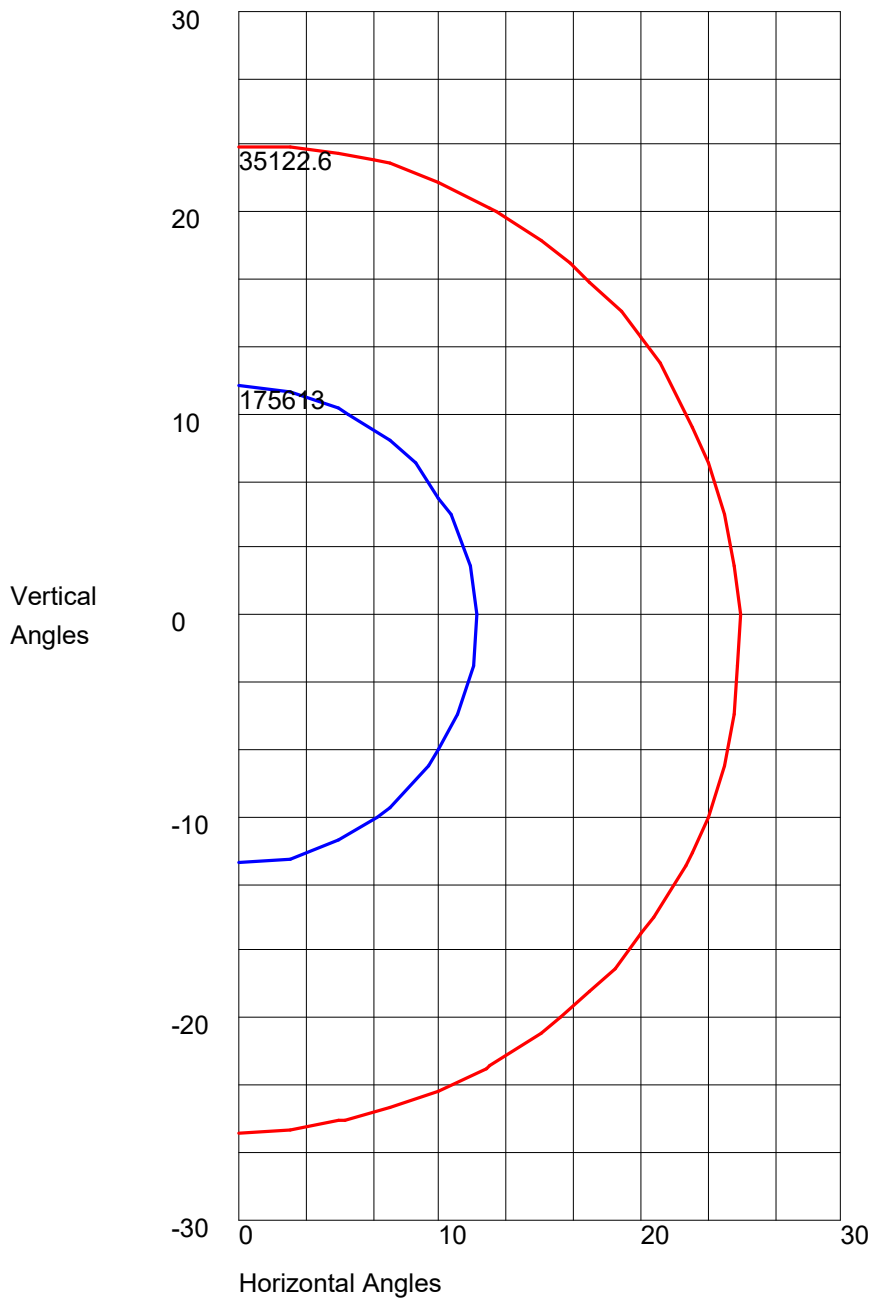
<b>-75</b>	0.29	0.01	83.66
<b>-85</b>	0.06	0.00	11.03
<b>-90</b>			
<b>Total</b>	19.68	0.45	48378.21

AXIAL CANDELA DISPLAY



Maximum Candela = 351226 Located At Horizontal Angle = -1, Vertical Angle = 1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 351226 Located At Horizontal Angle = -1, Vertical Angle = 1  
50% Maximum Candela = 175613  
10% Maximum Candela = 35122.6