



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13167  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 01/04/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-70L-NF-50-GS  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

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

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	237197
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	23.5
Vertical Beam Angle (50%)	23.2
Horizontal Field Angle (10%)	51.5
Vertical Field Angle (10%)	50.6
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	23564
Beam Efficiency	N.A.
Field Lumens	47712
Field Efficiency	N.A.
Spill Lumens	19567
Luminaire Lumens	67279
Total Efficiency	N.A.
Total Luminaire Watts	462.3
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	3	90	0
85	61	85	0
75	456	75	0
65	1107	65	210
55	2648	55	1411
47.5	5148	47.5	2928
42.5	7365	42.5	4708
37.5	9694	37.5	6907
33	12193	33	9395
29	16438	29	12929
25.5	24261	25.5	19025
22.5	33849	22.5	28448
19.5	45382	19.5	39761
17	57085	17	51794
15	69553	15	63883
13	92939	13	86243
11	130280	11	122588
9	171635	9	163779
7	207122	7	200604
5	226917	5	223779
3	234931	3	233435
1	236825	1	236390
0	236751	0	236751
-1	236825	-1	237163
-3	234931	-3	236138
-5	226917	-5	229572
-7	207122	-7	211806
-9	171635	-9	179989
-11	130280	-11	140025
-13	92939	-13	100660
-15	69553	-15	73480
-17	57085	-17	60067
-19.5	45382	-19.5	47876
-22.5	33849	-22.5	36255
-25.5	24261	-25.5	26587
-29	16438	-29	18396
-33	12193	-33	13174
-37.5	9694	-37.5	10502
-42.5	7365	-42.5	8408
-47.5	5148	-47.5	6018
-55	2648	-55	3214
-65	1107	-65	1489
-75	456	-75	731
-85	61	-85	167
-90	3	-90	34

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**CANDELA TABULATION**

Maximum Candela = 237197

Beam Edge = 118598.5 Cd (50% of Max.)

Field Edge = 23719.7 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-90.0</b>	<b>-85.0</b>	<b>-75.0</b>	<b>-65.0</b>	<b>-55.0</b>	<b>-47.5</b>	<b>-42.5</b>	<b>-37.5</b>	<b>-33.0</b>	<b>-29.0</b>
<b>90.0</b>	3	3	2	2	2	2	2	2	2	1
<b>85.0</b>	3	6	8	7	7	7	6	4	3	2
<b>75.0</b>	3	11	32	51	61	57	51	42	29	24
<b>65.0</b>	3	16	74	147	216	252	268	276	283	284
<b>55.0</b>	3	24	130	280	436	558	660	763	867	966
<b>47.5</b>	3	32	179	385	624	850	1067	1306	1533	1755
<b>42.5</b>	3	37	216	463	795	1182	1529	1935	2366	2744
<b>37.5</b>	3	42	252	552	1013	1604	2123	2792	3488	4166
<b>33.0</b>	3	46	284	637	1239	2013	2767	3756	4724	5645
<b>29.0</b>	3	49	313	711	1444	2435	3438	4718	5943	7047
<b>25.5</b>	3	51	337	777	1644	2814	4092	5606	6978	8114
<b>22.5</b>	3	53	356	830	1805	3190	4656	6346	7830	9177
<b>19.5</b>	3	55	374	883	1960	3534	5235	7054	8609	10212
<b>17.0</b>	3	56	389	925	2095	3820	5683	7603	9259	11082
<b>15.0</b>	3	57	400	955	2195	4064	6011	8005	9747	11785
<b>13.0</b>	3	58	410	984	2287	4286	6301	8367	10189	12575
<b>11.0</b>	3	60	419	1010	2372	4486	6558	8691	10646	13311
<b>9.0</b>	3	60	428	1033	2448	4663	6786	8961	11078	13982
<b>7.0</b>	3	60	435	1054	2515	4816	6985	9189	11463	14719
<b>5.0</b>	3	61	445	1072	2565	4943	7153	9375	11793	15442
<b>3.0</b>	3	61	449	1091	2617	5074	7305	9527	12052	15981
<b>1.0</b>	3	61	454	1102	2638	5123	7345	9653	12163	16334
<b>0.0</b>	3	61	456	1107	2648	5148	7365	9694	12193	16438
<b>-1.0</b>	3	61	458	1113	2657	5167	7432	9730	12221	16508
<b>-3.0</b>	3	62	461	1126	2676	5205	7567	9759	12228	16472
<b>-5.0</b>	3	62	465	1131	2663	5161	7567	9759	12209	16213
<b>-7.0</b>	3	63	463	1135	2651	5129	7503	9719	12124	15752
<b>-9.0</b>	3	63	463	1137	2635	5072	7402	9636	11965	15268
<b>-11.0</b>	3	63	462	1135	2608	4987	7266	9507	11712	14769
<b>-13.0</b>	3	62	459	1127	2571	4873	7096	9335	11403	14149
<b>-15.0</b>	3	61	456	1115	2522	4730	6891	9132	11100	13414
<b>-17.0</b>	3	61	452	1099	2463	4560	6656	8876	10747	12782
<b>-19.5</b>	3	60	446	1076	2373	4329	6326	8497	10247	11988
<b>-22.5</b>	3	59	436	1043	2265	4033	5863	7956	9689	11115
<b>-25.5</b>	3	58	424	1009	2142	3696	5361	7340	9045	10302
<b>-29.0</b>	3	56	407	959	1978	3353	4721	6536	8169	9457
<b>-33.0</b>	3	54	384	900	1792	2929	4035	5521	7007	8214
<b>-37.5</b>	3	51	353	829	1568	2497	3304	4395	5560	6655
<b>-42.5</b>	3	46	315	749	1351	2049	2628	3351	4121	4885
<b>-47.5</b>	3	42	272	665	1156	1675	2089	2581	3050	3534
<b>-55.0</b>	3	33	214	529	898	1220	1462	1726	1971	2180
<b>-65.0</b>	3	24	136	334	578	764	884	1006	1111	1187
<b>-75.0</b>	3	16	69	161	288	382	449	511	561	597
<b>-85.0</b>	3	8	23	43	72	98	113	124	133	141
<b>-90.0</b>	3	4	8	14	20	24	26	28	30	30

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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	1	1	1	1	1	1	1	0	0	0
85.0	2	2	1	1	1	1	1	0	0	0
75.0	16	12	9	5	2	1	1	0	0	0
65.0	277	268	268	262	255	248	245	240	232	223
55.0	1049	1129	1205	1257	1294	1327	1352	1371	1386	1398
47.5	1939	2136	2302	2427	2527	2608	2672	2748	2809	2853
42.5	3142	3468	3762	3957	4121	4265	4381	4497	4602	4676
37.5	4762	5211	5616	5898	6099	6324	6513	6668	6798	6877
33.0	6392	6953	7463	7885	8187	8466	8749	8989	9176	9301
29.0	7851	8557	9266	9888	10385	11003	11524	11939	12328	12655
25.5	9183	10149	11268	12271	13373	14459	15341	16590	17714	18474
22.5	10491	11874	13658	15558	17393	19479	21444	23683	25478 *	26717 *
19.5	12004	14154	17105	20449	23391	26506 *	29635 *	32792 *	35311 *	37165 *
17.0	13352	16602	21070	25782 *	29728 *	33815 *	37540 *	41709 *	45273 *	47969 *
15.0	14731	18923	24671 *	30451 *	35452 *	40160 *	44919 *	49557 *	55027 *	59122 *
13.0	16210	21434	28517 *	35423 *	41033 *	46970 *	53224 *	60200 *	67390 *	75953 *
11.0	17611	23824 *	32040 *	39978 *	46728 *	54170 *	62682 *	74556 *	86945 *	100335 *
9.0	19292	26408 *	35670 *	44544 *	52017 *	62293 *	75882 *	91507 *	116884 *	137771 *
7.0	20796	28612 *	38925 *	48702 *	58435 *	70725 *	89859 *	117876 *	148834 *	174611 *
5.0	22157	30702 *	41681 *	52195 *	64065 *	81155 *	105312 *	142048 *	174438 *	201989 *
3.0	23272	32509 *	43959 *	55175 *	67829 *	89161 *	121995 *	160768 *	197029 *	215838 *
1.0	24031 *	33674 *	45226 *	56910 *	69564 *	92455 *	129127 *	169566 *	204628 *	226299 *
0.0	24261 *	33849 *	45382 *	57085 *	69553 *	92939 *	130280 *	171635 *	207122 *	226917 *
-1.0	24276 *	33807 *	45230 *	57145 *	69913 *	94747 *	133176 *	173587 *	207392 *	227748 *
-3.0	24054 *	33327 *	44602 *	56055 *	68519 *	90757 *	125290 *	166015 *	201136 *	220231 *
-5.0	23506	32593 *	43452 *	53923 *	65737 *	84268 *	111300 *	150213 *	184095 *	210851 *
-7.0	22601	31229 *	41592 *	51401 *	61501 *	74749 *	96698 *	128507 *	163353 *	186193 *
-9.0	21371	29301 *	39023 *	48029 *	55814 *	66846 *	83072 *	103898 *	130519 *	154293 *
-11.0	19886	26976 *	35756 *	43996 *	51148 *	59304 *	69694 *	84053 *	99265 *	115729 *
-13.0	18592	24613 *	32318 *	39717 *	45912 *	52331 *	59700 *	67859 *	76526 *	88245 *
-15.0	16980	21996	28648 *	35010 *	40615 *	46137 *	51714 *	56760 *	62958 *	68366 *
-17.0	15452	19474	25125 *	30620 *	35293 *	40274 *	44721 *	49040 *	52747 *	55646 *
-19.5	14067	16882	20850	25292 *	29078 *	33152 *	36797 *	40186 *	42912 *	45114 *
-22.5	12630	14490	17061	19753	22389	25225 *	27941 *	30526 *	32474 *	34018 *
-25.5	11455	12664	14230	15800	17388	19030	20493	22277	23773 *	24949 *
-29.0	10340	11175	12066	12879	13544	14469	15282	15980	16703	17373
-33.0	9127	9825	10421	10925	11299	11633	12002	12346	12629	12846
-37.5	7512	8176	8796	9240	9549	9803	10029	10221	10356	10453
-42.5	5609	6175	6707	7102	7390	7649	7875	8065	8216	8328
-47.5	3948	4346	4704	4984	5206	5402	5572	5710	5820	5903
-55.0	2379	2535	2683	2807	2892	2965	3030	3086	3134	3171
-65.0	1252	1302	1352	1388	1413	1436	1454	1470	1482	1490
-75.0	627	648	664	675	681	691	701	711	719	730
-85.0	147	152	158	163	166	168	172	173	173	173
-90.0	31	32	32	33	33	33	34	34	34	34

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	215	210	210	210	215	223	232	240	245	248

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**CANDELA TABULATION - (Cont.)**

55.0	1414	1412	1411	1412	1414	1398	1386	1371	1352	1327
47.5	2908	2919	2928	2919	2908	2853	2809	2748	2672	2608
42.5	4744	4701	4708	4701	4744	4676	4602	4497	4381	4265
37.5	6907	6890	6907	6890	6907	6877	6798	6668	6513	6324
33.0	9359	9407	9395	9407	9359	9301	9176	8989	8749	8466
29.0	12834	12961	12929	12961	12834	12655	12328	11939	11524	11003
25.5	18843	19100	19025	19100	18843	18474	17714	16590	15341	14459
22.5	27341 *	27805 *	28448 *	27805 *	27341 *	26717 *	25478 *	23683	21444	19479
19.5	38276 *	39243 *	39761 *	39243 *	38276 *	37165 *	35311 *	32792 *	29635 *	26506 *
17.0	49797 *	51041 *	51794 *	51041 *	49797 *	47969 *	45273 *	41709 *	37540 *	33815 *
15.0	61814 *	63338 *	63883 *	63338 *	61814 *	59122 *	55027 *	49557 *	44919 *	40160 *
13.0	81920 *	85007 *	86243 *	85007 *	81920 *	75953 *	67390 *	60200 *	53224 *	46970 *
11.0	113365 *	122125 *	122588 *	122125 *	113365 *	100335 *	86945 *	74556 *	62682 *	54170 *
9.0	152746 *	163613 *	163779 *	163613 *	152746 *	137771 *	116884 *	91507 *	75882 *	62293 *
7.0	193278 *	200422 *	200604 *	200422 *	193278 *	174611 *	148834 *	117876 *	89859 *	70725 *
5.0	214993 *	223779 *	223779 *	223779 *	214993 *	201989 *	174438 *	142048 *	105312 *	81155 *
3.0	228223 *	232350 *	233435 *	232350 *	228223 *	215838 *	197029 *	160768 *	121995 *	89161 *
1.0	233868 *	236446 *	236390 *	236446 *	233868 *	226299 *	204628 *	169566 *	129127 *	92455 *
0.0	234931 *	236825 *	236751 *	236825 *	234931 *	226917 *	207122 *	171635 *	130280 *	92939 *
-1.0	234671 *	237197 *	237163 *	237197 *	234671 *	227748 *	207392 *	173587 *	133176 *	94747 *
-3.0	231819 *	235594 *	236138 *	235594 *	231819 *	220231 *	201136 *	166015 *	125290 *	90757 *
-5.0	221669 *	230309 *	229572 *	230309 *	221669 *	210851 *	184095 *	150213 *	111300 *	84268 *
-7.0	204719 *	212597 *	211806 *	212597 *	204719 *	186193 *	163353 *	128507 *	96698 *	74749 *
-9.0	172142 *	180055 *	179989 *	180055 *	172142 *	154293 *	130519 *	103898 *	83072 *	66846 *
-11.0	133252 *	139384 *	140025 *	139384 *	133252 *	115729 *	99265 *	84053 *	69694 *	59304 *
-13.0	97249 *	100164 *	100660 *	100164 *	97249 *	88245 *	76526 *	67859 *	59700 *	52331 *
-15.0	72017 *	73480 *	73480 *	73480 *	72017 *	68366 *	62958 *	56760 *	51714 *	46137 *
-17.0	58298 *	59847 *	60067 *	59847 *	58298 *	55646 *	52747 *	49040 *	44721 *	40274 *
-19.5	46834 *	47754 *	47876 *	47754 *	46834 *	45114 *	42912 *	40186 *	36797 *	33152 *
-22.5	35183 *	36041 *	36255 *	36041 *	35183 *	34018 *	32474 *	30526 *	27941 *	25225 *
-25.5	25778 *	26378 *	26587 *	26378 *	25778 *	24949 *	23773 *	22277	20493	19030
-29.0	17833	18243	18396	18243	17833	17373	16703	15980	15282	14469
-33.0	12994	13128	13174	13128	12994	12846	12629	12346	12002	11633
-37.5	10514	10519	10502	10519	10514	10453	10356	10221	10029	9803
-42.5	8438	8418	8408	8418	8438	8328	8216	8065	7875	7649
-47.5	5995	6010	6018	6010	5995	5903	5820	5710	5572	5402
-55.0	3210	3213	3214	3213	3210	3171	3134	3086	3030	2965
-65.0	1496	1491	1489	1491	1496	1490	1482	1470	1454	1436
-75.0	730	731	731	731	730	730	719	711	701	691
-85.0	171	168	167	168	171	173	173	173	172	168
-90.0	34	34	34	34	34	34	34	34	34	33

**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	1	1	1	1	1	1	2	2	2	2
85.0	1	1	1	2	2	2	3	4	6	7
75.0	2	5	9	12	16	24	29	42	51	57
65.0	255	262	268	268	277	284	283	276	268	252
55.0	1294	1257	1205	1129	1049	966	867	763	660	558
47.5	2527	2427	2302	2136	1939	1755	1533	1306	1067	850
42.5	4121	3957	3762	3468	3142	2744	2366	1935	1529	1182
37.5	6099	5898	5616	5211	4762	4166	3488	2792	2123	1604
33.0	8187	7885	7463	6953	6392	5645	4724	3756	2767	2013
29.0	10385	9888	9266	8557	7851	7047	5943	4718	3438	2435
25.5	13373	12271	11268	10149	9183	8114	6978	5606	4092	2814

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

22.5	17393	15558	13658	11874	10491	9177	7830	6346	4656	3190
19.5	23391	20449	17105	14154	12004	10212	8609	7054	5235	3534
17.0	29728 *	25782 *	21070	16602	13352	11082	9259	7603	5683	3820
15.0	35452 *	30451 *	24671 *	18923	14731	11785	9747	8005	6011	4064
13.0	41033 *	35423 *	28517 *	21434	16210	12575	10189	8367	6301	4286
11.0	46728 *	39978 *	32040 *	23824 *	17611	13311	10646	8691	6558	4486
9.0	52017 *	44544 *	35670 *	26408 *	19292	13982	11078	8961	6786	4663
7.0	58435 *	48702 *	38925 *	28612 *	20796	14719	11463	9189	6985	4816
5.0	64065 *	52195 *	41681 *	30702 *	22157	15442	11793	9375	7153	4943
3.0	67829 *	55175 *	43959 *	32509 *	23272	15981	12052	9527	7305	5074
1.0	69564 *	56910 *	45226 *	33674 *	24031 *	16334	12163	9653	7345	5123
0.0	69553 *	57085 *	45382 *	33849 *	24261 *	16438	12193	9694	7365	5148
-1.0	69913 *	57145 *	45230 *	33807 *	24276 *	16508	12221	9730	7432	5167
-3.0	68519 *	56055 *	44602 *	33327 *	24054 *	16472	12228	9759	7567	5205
-5.0	65737 *	53923 *	43452 *	32593 *	23506	16213	12209	9759	7567	5161
-7.0	61501 *	51401 *	41592 *	31229 *	22601	15752	12124	9719	7503	5129
-9.0	55814 *	48029 *	39023 *	29301 *	21371	15268	11965	9636	7402	5072
-11.0	51148 *	43996 *	35756 *	26976 *	19886	14769	11712	9507	7266	4987
-13.0	45912 *	39717 *	32318 *	24613 *	18592	14149	11403	9335	7096	4873
-15.0	40615 *	35010 *	28648 *	21996	16980	13414	11100	9132	6891	4730
-17.0	35293 *	30620 *	25125 *	19474	15452	12782	10747	8876	6656	4560
-19.5	29078 *	25292 *	20850	16882	14067	11988	10247	8497	6326	4329
-22.5	22389	19753	17061	14490	12630	11115	9689	7956	5863	4033
-25.5	17388	15800	14230	12664	11455	10302	9045	7340	5361	3696
-29.0	13544	12879	12066	11175	10340	9457	8169	6536	4721	3353
-33.0	11299	10925	10421	9825	9127	8214	7007	5521	4035	2929
-37.5	9549	9240	8796	8176	7512	6655	5560	4395	3304	2497
-42.5	7390	7102	6707	6175	5609	4885	4121	3351	2628	2049
-47.5	5206	4984	4704	4346	3948	3534	3050	2581	2089	1675
-55.0	2892	2807	2683	2535	2379	2180	1971	1726	1462	1220
-65.0	1413	1388	1352	1302	1252	1187	1111	1006	884	764
-75.0	681	675	664	648	627	597	561	511	449	382
-85.0	166	163	158	152	147	141	133	124	113	98
-90.0	33	33	32	32	31	30	30	28	26	24

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	2	2	2	3	3
85.0	7	7	8	6	3
75.0	61	51	32	11	3
65.0	216	147	74	16	3
55.0	436	280	130	24	3
47.5	624	385	179	32	3
42.5	795	463	216	37	3
37.5	1013	552	252	42	3
33.0	1239	637	284	46	3
29.0	1444	711	313	49	3
25.5	1644	777	337	51	3
22.5	1805	830	356	53	3
19.5	1960	883	374	55	3
17.0	2095	925	389	56	3
15.0	2195	955	400	57	3
13.0	2287	984	410	58	3
11.0	2372	1010	419	60	3
9.0	2448	1033	428	60	3

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2515	1054	435	60	3
<b>5.0</b>	2565	1072	445	61	3
<b>3.0</b>	2617	1091	449	61	3
<b>1.0</b>	2638	1102	454	61	3
<b>0.0</b>	2648	1107	456	61	3
<b>-1.0</b>	2657	1113	458	61	3
<b>-3.0</b>	2676	1126	461	62	3
<b>-5.0</b>	2663	1131	465	62	3
<b>-7.0</b>	2651	1135	463	63	3
<b>-9.0</b>	2635	1137	463	63	3
<b>-11.0</b>	2608	1135	462	63	3
<b>-13.0</b>	2571	1127	459	62	3
<b>-15.0</b>	2522	1115	456	61	3
<b>-17.0</b>	2463	1099	452	61	3
<b>-19.5</b>	2373	1076	446	60	3
<b>-22.5</b>	2265	1043	436	59	3
<b>-25.5</b>	2142	1009	424	58	3
<b>-29.0</b>	1978	959	407	56	3
<b>-33.0</b>	1792	900	384	54	3
<b>-37.5</b>	1568	829	353	51	3
<b>-42.5</b>	1351	749	315	46	3
<b>-47.5</b>	1156	665	272	42	3
<b>-55.0</b>	898	529	214	33	3
<b>-65.0</b>	578	334	136	24	3
<b>-75.0</b>	288	161	69	16	3
<b>-85.0</b>	72	43	23	8	3
<b>-90.0</b>	20	14	8	4	3

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 33639.34

Total Field Lumens (one side of beam only) = 23855.8

\* 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	0.03
65	0.32	0.65	0.67	0.69	0.71	0.73	0.74	0.75	0.77	0.98
55	2.47	4.95	4.94	4.91	4.87	4.81	4.73	4.62	4.49	5.41
47.5	4.95	9.88	9.77	9.59	9.40	9.16	8.89	8.60	8.24	9.75
42.5	5.81	11.62	11.53	11.31	11.05	10.72	10.37	9.99	9.54	11.25
37.5	8.84	17.69	17.63	17.38	17.02	16.54	16.00	15.38	14.70	17.39
33	11.17	22.30	22.18	21.91	21.47	20.87	20.15	19.34	18.49	21.85
29	13.61	27.13	26.83	26.33	25.60	24.72	23.68	22.49	21.28	24.95
25.5	17.06	33.96	33.40	32.43	30.92	29.08	27.28	25.46	23.53	27.02
22.5	21.56	42.51	41.65	40.16	37.76	34.67	31.61	28.69	25.74	28.61
19.5	30.90 *	60.58 *	59.02 *	56.65 *	53.06 *	48.40 *	43.38 *	38.47	33.73	36.22
17	34.62 *	67.87 *	65.79 *	62.75 *	58.47 *	53.12 *	47.48 *	41.91 *	36.36 *	38.15
15	35.04 *	68.80 *	66.45 *	62.83 *	57.78 *	52.11 *	46.61 *	41.13 *	35.55 *	36.87 *
13	45.46 *	88.91 *	84.72 *	78.00 *	70.03 *	62.36 *	55.20 *	48.36 *	41.68 *	43.05 *
11	63.35 *	122.50 *	112.91 *	100.16 *	87.20 *	75.19 *	64.67 *	55.83 *	47.77 *	49.16 *
9	87.13 *	167.99 *	153.21 *	133.88 *	111.57 *	91.38 *	75.98 *	63.61 *	53.66 *	55.05 *
7	110.94 *	216.15 *	200.06 *	175.13 *	143.31 *	112.53 *	89.01 *	71.96 *	59.64 *	60.69 *
5	129.24 *	253.42 *	238.49 *	212.01 *	175.91 *	136.52 *	103.40 *	81.09 *	65.41 *	65.63 *
3	139.10 *	273.78 *	261.64 *	239.10 *	203.39 *	159.02 *	118.47 *	89.32 *	70.06 *	69.79 *
1	142.95 *	283.38 *	274.76 *	255.61 *	220.80 *	174.42 *	128.93 *	94.28 *	73.05 *	72.78 *
0	72.07 *	143.39 *	140.08 *	131.01 *	113.56 *	90.08 *	66.26 *	47.96 *	37.06 *	36.99 *
-1	72.19 *	143.63 *	140.42 *	131.65 *	114.58 *	91.29 *	67.21 *	48.35 *	37.14 *	37.03 *
	144.09 *	285.93 *	277.87 *	259.46 *	225.66 *	179.41 *	132.28 *	95.74 *	73.68 *	73.41 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	141.89 *	279.88 *	268.79 *	247.29 *	211.59 *	165.83 *	122.64 *	91.41 *	71.51 *	71.61 *
<b>-5</b>	134.68 *	264.63 *	250.21 *	225.53 *	188.88 *	146.00 *	109.35 *	84.60 *	68.09 *	68.84 *
<b>-7</b>	119.47 *	234.25 *	217.97 *	192.17 *	158.74 *	123.64 *	95.75 *	76.52 *	63.46 *	65.10 *
<b>-9</b>	97.39 *	190.21 *	174.85 *	151.41 *	126.00 *	102.21 *	83.10 *	68.90 *	58.26 *	60.31 *
<b>-11</b>	73.14 *	143.09 *	132.02 *	115.04 *	98.85 *	84.38 *	71.81 *	61.68 *	52.93 *	54.88 *
<b>-13</b>	52.97 *	104.39 *	99.02 *	89.70 *	79.66 *	70.80 *	62.53 *	54.68 *	47.22 *	49.07 *
<b>-15</b>	40.65 *	80.26 *	77.28 *	72.62 *	66.81 *	60.67 *	54.48 *	47.97 *	41.44 *	43.17 *
<b>-17</b>	41.03 *	80.95 *	78.20 *	74.38 *	69.71 *	64.02 *	57.71 *	50.91 *	44.02 *	46.05 *
<b>-19.5</b>	38.36 *	75.71 *	73.45 *	70.21 *	66.10 *	60.95 *	55.02 *	48.70 *	42.39 *	44.99
<b>-22.5</b>	28.62 *	56.34 *	54.66 *	52.35 *	49.34 *	45.55 *	41.42	37.25	33.09	36.26
<b>-25.5</b>	23.88	47.00	45.70	43.89	41.56	38.86	36.12	33.32	30.54	34.79
<b>-29</b>	19.17	37.87	37.10	36.08	34.78	33.36	31.81	30.11	28.49	33.48
<b>-33</b>	16.22	32.30	32.00	31.55	30.92	30.10	29.14	28.12	27.02	32.04
<b>-37.5</b>	14.41	28.84	28.66	28.29	27.79	27.14	26.34	25.41	24.36	28.79
<b>-42.5</b>	10.99	21.96	21.77	21.41	20.97	20.41	19.74	18.95	18.07	21.24
<b>-47.5</b>	10.54	21.04	20.83	20.48	20.08	19.57	18.96	18.25	17.45	20.58
<b>-55</b>	7.16	14.32	14.23	14.05	13.83	13.56	13.24	12.87	12.44	14.88
<b>-65</b>	3.38	6.77	6.75	6.70	6.61	6.50	6.38	6.24	6.09	7.37
<b>-75</b>	1.37	2.74	2.74	2.72	2.68	2.64	2.58	2.52	2.47	3.00
<b>-85</b>	0.15	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.29	0.35
<b>-90</b>										
<b>Total</b>	2068.34	4069.86	3880.57	3559.15	3109.36	2593.67	2120.77	1752.01	1481.22	1558.87

**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	0.01	0.02	0.02	0.02	0.03	0.03	0.02
<b>85</b>	0.05	0.07	0.10	0.15	0.22	0.30	0.33	0.47	0.48	0.25
<b>75</b>	1.19	1.20	1.42	1.62	1.76	1.86	1.69	2.09	1.81	0.79
<b>65</b>	6.12	5.68	6.10	6.27	6.12	5.74	4.68	5.22	4.10	1.64
<b>55</b>	10.83	9.79	10.14	10.03	9.38	8.30	6.33	6.61	4.92	1.90

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	12.44	11.15	11.35	10.96	9.99	8.51	6.23	6.16	4.31	1.62
<b>42.5</b>	19.25	17.30	17.55	16.66	14.80	12.22	8.66	8.21	5.37	1.93
<b>37.5</b>	24.23	21.90	22.35	21.17	18.58	15.01	10.30	9.44	5.89	2.02
<b>33</b>	27.50	24.84	25.53	24.39	21.42	17.12	11.47	10.19	6.13	2.02
<b>29</b>	29.29	26.10	26.70	25.66	22.76	18.22	12.04	10.42	6.09	1.95
<b>25.5</b>	30.04	26.10	26.27	25.14	22.46	18.11	11.91	10.13	5.77	1.79
<b>22.5</b>	36.33	30.38	29.77	28.06	25.05	20.37	13.42	11.24	6.25	1.91
<b>19.5</b>	36.75	29.27	27.63	25.56	22.75	18.64	12.30	10.19	5.57	1.67
<b>17</b>	34.66	26.55	24.14	21.86	19.37	15.92	10.54	8.70	4.69	1.39
<b>15</b>	39.90	29.76	26.20	23.13	20.32	16.73	11.12	9.17	4.88	1.43
<b>13</b>	45.13 *	33.01	28.29	24.39	21.20	17.45	11.64	9.60	5.06	1.47
<b>11</b>	50.31 *	36.37	30.42	25.59	22.03	18.08	12.11	9.98	5.22	1.50
<b>9</b>	55.28 *	39.70 *	32.60	26.75	22.77	18.62	12.52	10.32	5.36	1.53
<b>7</b>	59.68 *	42.68 *	34.64	27.89	23.40	19.07	12.86	10.60	5.48	1.56
<b>5</b>	63.49 *	45.34 *	36.42	28.86	23.92	19.46	13.18	10.86	5.59	1.59
<b>3</b>	66.27 *	47.37 *	37.73	29.51	24.28	19.73	13.38	11.04	5.66	1.61
<b>1</b>	33.72 *	24.17 *	19.21	14.91	12.23	9.93	6.72	5.56	2.85	0.81
<b>0</b>	33.75 *	24.25 *	19.31	14.97	12.27	9.98	6.76	5.58	2.86	0.82
<b>-1</b>	66.95 *	48.19 *	38.53	29.98	24.59	20.11	13.66	11.22	5.76	1.64
<b>-3</b>	65.67 *	47.36 *	38.02	29.82	24.60	20.21	13.73	11.22	5.78	1.66
<b>-5</b>	63.50 *	45.88 *	36.99	29.39	24.52	20.15	13.65	11.15	5.77	1.66
<b>-7</b>	60.20 *	43.62 *	35.53	28.77	24.31	19.98	13.52	11.07	5.75	1.66
<b>-9</b>	55.90 *	40.71 *	33.78	28.04	23.96	19.72	13.31	10.93	5.72	1.66
<b>-11</b>	51.04 *	37.59	31.94	27.17	23.48	19.36	13.04	10.75	5.66	1.66
<b>-13</b>	45.88 *	34.30	29.92	26.14	22.93	18.93	12.70	10.50	5.58	1.64
<b>-15</b>	40.62 *	30.84	27.78	25.08	22.30	18.40	12.29	10.20	5.48	1.62
<b>-17</b>	43.90	34.37	32.16	29.87	26.84	22.13	14.72	12.26	6.67	2.00
<b>-19.5</b>	44.33	36.35	35.40	33.71	30.54	25.06	16.59	13.93	7.71	2.34

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	37.39	32.08	32.34	31.44	28.56	23.20	15.30	13.01	7.37	2.27
<b>-25.5</b>	37.42	33.33	34.46	33.78	30.44	24.45	16.14	13.97	8.10	2.55
<b>-29</b>	37.10	33.78	35.20	34.30	30.48	24.28	16.19	14.36	8.56	2.76
<b>-33</b>	35.72	32.53	33.59	32.23	28.31	22.64	15.46	14.12	8.71	2.89
<b>-37.5</b>	31.83	28.67	29.21	27.70	24.38	19.94	14.10	13.33	8.55	2.92
<b>-42.5</b>	23.39	20.95	21.29	20.35	18.33	15.53	11.36	11.13	7.46	2.60
<b>-47.5</b>	22.82	20.67	21.40	21.02	19.57	17.19	13.01	13.26	9.26	3.28
<b>-55</b>	16.79	15.58	16.58	16.84	16.27	14.81	11.65	12.36	8.89	3.16
<b>-65</b>	8.46	7.99	8.68	9.02	8.92	8.31	6.67	7.19	5.18	1.82
<b>-75</b>	3.46	3.28	3.58	3.74	3.72	3.49	2.80	3.00	2.14	0.77
<b>-85</b>	0.40	0.38	0.41	0.44	0.44	0.42	0.35	0.38	0.28	0.11
<b>-90</b>										
<b>Total</b>	1509.00	1181.44	1070.67	952.39	834.58	687.68	470.46	411.16	238.75	75.92

<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	0.21
<b>85</b>			
	0.08	0.00	2.56
<b>75</b>			
	0.18	0.01	22.61
<b>65</b>			
	0.32	0.01	98.19
<b>55</b>			
	0.36	0.01	166.84
<b>47.5</b>			
	0.31	0.01	186.24
<b>42.5</b>			
	0.36	0.01	280.87
<b>37.5</b>			
	0.37	0.01	351.00
<b>33</b>			
	0.37	0.01	407.61
<b>29</b>			
	0.35	0.01	459.71
<b>25.5</b>			
	0.32	0.01	511.01
<b>22.5</b>			
	0.33	0.01	663.51
<b>19.5</b>			
	0.29	0.00	697.16
<b>17</b>			
	0.24	0.00	671.24

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

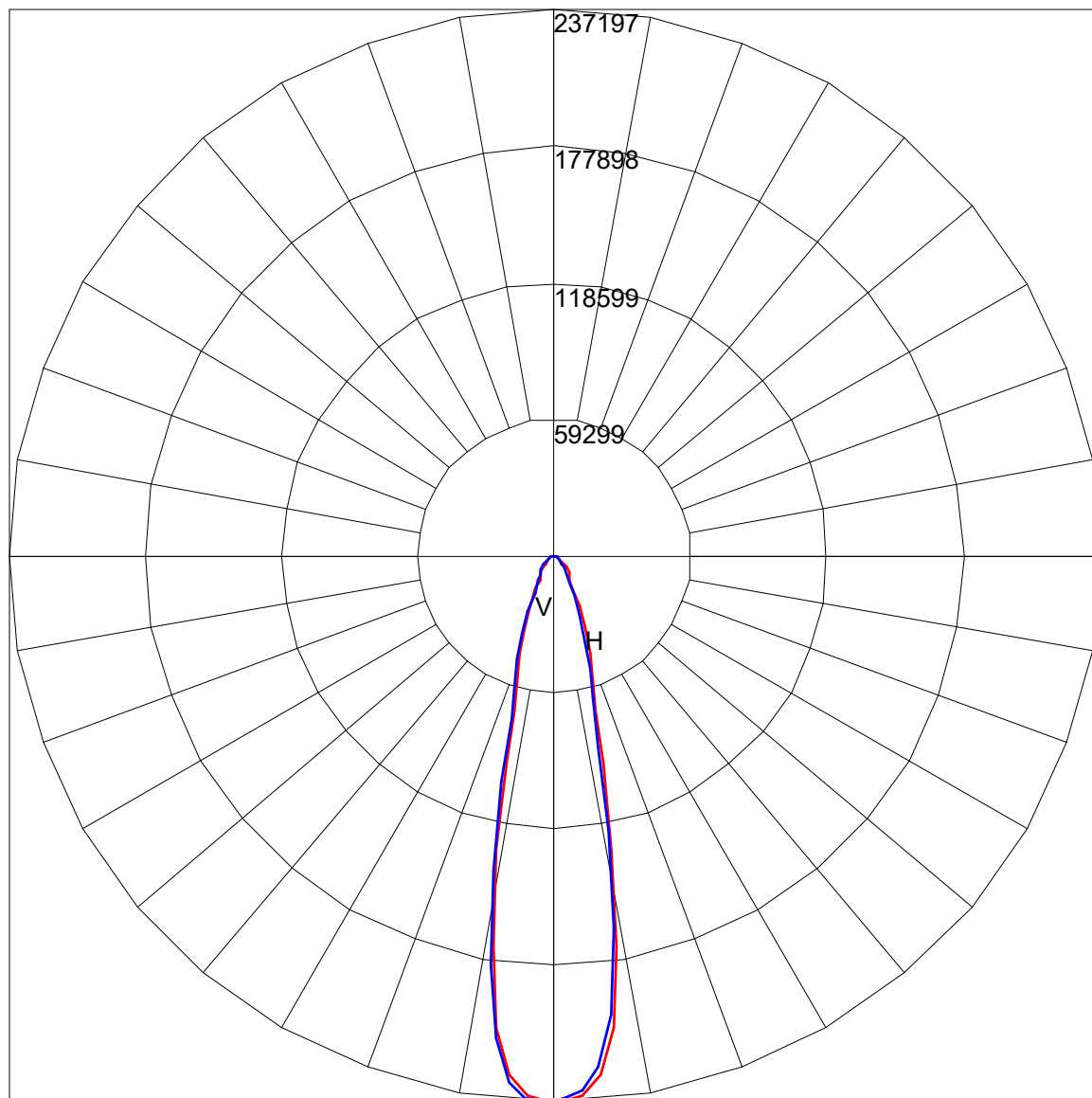
<b>15</b>	0.24	0.00	800.67
<b>13</b>	0.25	0.00	976.24
<b>11</b>	0.26	0.00	1205.33
<b>9</b>	0.26	0.00	1465.13
<b>7</b>	0.26	0.00	1699.28
<b>5</b>	0.27	0.00	1872.63
<b>3</b>	0.27	0.00	1977.82
<b>1</b>	0.14	0.00	1008.72
<b>0</b>	0.14	0.00	1014.17
<b>-1</b>	0.28	0.00	2008.45
<b>-3</b>	0.28	0.00	1930.78
<b>-5</b>	0.28	0.00	1793.75
<b>-7</b>	0.28	0.00	1591.78
<b>-9</b>	0.28	0.00	1346.66
<b>-11</b>	0.28	0.00	1109.79
<b>-13</b>	0.27	0.00	918.82
<b>-15</b>	0.27	0.00	780.26
<b>-17</b>	0.34	0.01	832.22
<b>-19.5</b>	0.40	0.01	822.26
<b>-22.5</b>	0.39	0.01	658.25
<b>-25.5</b>	0.44	0.01	610.76
<b>-29</b>	0.48	0.01	559.74
<b>-33</b>	0.50	0.01	516.11
<b>-37.5</b>	0.51	0.01	461.18
<b>-42.5</b>	0.45	0.01	348.35
<b>-47.5</b>	0.56	0.01	349.82
<b>-55</b>	0.54	0.01	264.06
<b>-65</b>	0.32	0.01	135.36

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

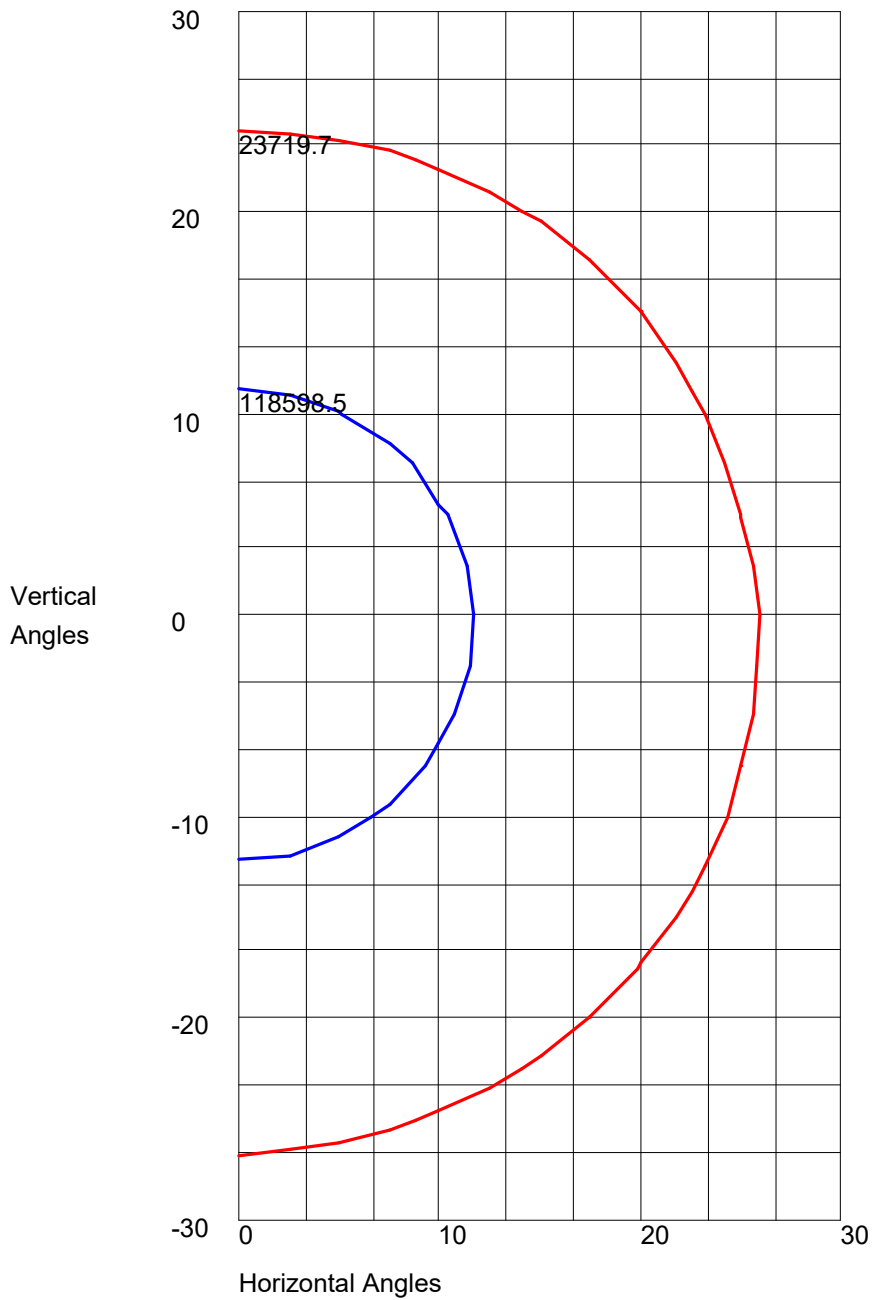
<b>-75</b>	0.15	0.00	55.60
<b>-85</b>	0.03	0.00	6.60
<b>-90</b>			
<b>Total</b>	13.25	0.24	33639.36

AXIAL CANDELA DISPLAY



Maximum Candela = 237197 Located At Horizontal Angle =-1, Vertical Angle =-1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 237197 Located At Horizontal Angle =-1, Vertical Angle =-1  
50% Maximum Candela = 118598.5  
10% Maximum Candela = 23719.7