



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-NF-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13016

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/30/22

[TEST DATE] 10/13/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-70L-NF-40

[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	234520
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	23.6
Vertical Beam Angle (50%)	23.7
Horizontal Field Angle (10%)	50.9
Vertical Field Angle (10%)	50.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	23915
Beam Efficiency	N.A.
Field Lumens	47750
Field Efficiency	N.A.
Spill Lumens	21244
Luminaire Lumens	68994
Total Efficiency	N.A.
Total Luminaire Watts	462.6
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	108	85	109
75	628	75	621
65	1355	65	1346
55	2949	55	2917
47.5	5415	47.5	5427
42.5	7635	42.5	7601
37.5	9793	37.5	9726
33	12174	33	12072
29	16149	29	16009
25.5	23361	25.5	23249
22.5	32311	22.5	32263
19.5	44434	19.5	43813
17	56881	17	56044
15	70326	15	69697
13	95626	13	94924
11	132788	11	133426
9	172051	9	173399
7	204813	7	205937
5	223631	5	225035
3	231495	3	233367
1	233724	1	234520
0	233900	0	233900
-1	233724	-1	234520
-3	231495	-3	233367
-5	223631	-5	225035
-7	204813	-7	205937
-9	172051	-9	173399
-11	132788	-11	133426
-13	95626	-13	94924
-15	70326	-15	69697
-17	56881	-17	56044
-19.5	44434	-19.5	43813
-22.5	32311	-22.5	32263
-25.5	23361	-25.5	23249
-29	16149	-29	16009
-33	12174	-33	12072
-37.5	9793	-37.5	9726
-42.5	7635	-42.5	7601
-47.5	5415	-47.5	5427
-55	2949	-55	2917
-65	1355	-65	1346
-75	628	-75	621
-85	108	-85	109
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 234520

Beam Edge = 117260 Cd (50% of Max.)

Field Edge = 23452 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	6	18	31	48	63	72	79	85	90
75.0	0	19	76	161	260	336	387	433	471	501
65.0	0	30	162	343	556	708	804	904	992	1062
55.0	0	47	260	554	881	1154	1358	1590	1811	1999
47.5	0	62	333	706	1152	1595	1968	2406	2820	3238
42.5	0	71	387	804	1356	1967	2492	3132	3799	4471
37.5	0	79	436	901	1594	2412	3146	4080	5085	6037
33.0	0	85	476	988	1820	2840	3818	5092	6381	7491
29.0	0	90	509	1063	2017	3258	4474	6046	7501	8762
25.5	0	94	534	1127	2203	3609	5106	6841	8403	9675
22.5	0	97	553	1173	2345	3953	5605	7471	9103	10474
19.5	0	100	571	1218	2473	4262	6078	8052	9718	11279
17.0	0	102	584	1252	2580	4506	6432	8494	10202	11989
15.0	0	103	593	1275	2655	4697	6694	8812	10563	12545
13.0	0	105	601	1295	2721	4867	6930	9078	10885	13252
11.0	0	108	608	1312	2778	5013	7131	9302	11224	13866
9.0	0	108	614	1327	2825	5137	7298	9478	11531	14382
7.0	0	108	619	1338	2863	5236	7431	9614	11777	15023
5.0	0	108	626	1346	2900	5313	7529	9713	11967	15666
3.0	0	108	627	1355	2939	5401	7635	9773	12096	16111
1.0	0	108	628	1355	2945	5410	7635	9801	12164	16192
0.0	0	108	628	1355	2949	5415	7635	9793	12174	16149
-1.0	0	108	628	1355	2945	5410	7635	9801	12164	16192
-3.0	0	108	627	1355	2939	5401	7635	9773	12096	16111
-5.0	0	108	626	1346	2900	5313	7529	9713	11967	15666
-7.0	0	108	619	1338	2863	5236	7431	9614	11777	15023
-9.0	0	108	614	1327	2825	5137	7298	9478	11531	14382
-11.0	0	108	608	1312	2778	5013	7131	9302	11224	13866
-13.0	0	105	601	1295	2721	4867	6930	9078	10885	13252
-15.0	0	103	593	1275	2655	4697	6694	8812	10563	12545
-17.0	0	102	584	1252	2580	4506	6432	8494	10202	11989
-19.5	0	100	571	1218	2473	4262	6078	8052	9718	11279
-22.5	0	97	553	1173	2345	3953	5605	7471	9103	10474
-25.5	0	94	534	1127	2203	3609	5106	6841	8403	9675
-29.0	0	90	509	1063	2017	3258	4474	6046	7501	8762
-33.0	0	85	476	988	1820	2840	3818	5092	6381	7491
-37.5	0	79	436	901	1594	2412	3146	4080	5085	6037
-42.5	0	71	387	804	1356	1967	2492	3132	3799	4471
-47.5	0	62	333	706	1152	1595	1968	2406	2820	3238
-55.0	0	47	260	554	881	1154	1358	1590	1811	1999
-65.0	0	30	162	343	556	708	804	904	992	1062
-75.0	0	19	76	161	260	336	387	433	471	501
-85.0	0	6	18	31	48	63	72	79	85	90
-90.0	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	94	97	100	102	103	105	108	109	109	109
75.0	525	545	562	574	582	591	599	606	612	620
65.0	1123	1167	1211	1244	1267	1288	1306	1321	1333	1342
55.0	2185	2328	2464	2578	2659	2731	2789	2834	2869	2893
47.5	3603	3964	4283	4522	4710	4874	5015	5140	5242	5321
42.5	5097	5601	6077	6428	6680	6905	7099	7263	7396	7498
37.5	6829	7466	8026	8431	8723	8986	9218	9418	9567	9678
33.0	8402	9098	9690	10175	10536	10870	11211	11519	11770	11962
29.0	9684	10486	11320	12041	12590	13224	13791	14277	14879	15523
25.5	10783	11887	13159	14306	15639	17076	18352	19886	21218	22234
22.5	11868	13405	15480	17902	20241	22612	24769 *	27141 *	29108 *	30622 *
19.5	13129	15477	19000	22973	26352 *	29884 *	33137 *	36550 *	39230 *	41116 *
17.0	14307	17874	22932	28041 *	32295 *	36927 *	41297 *	45706 *	49381 *	52009 *
15.0	15654	20166	26282 *	32323 *	37541 *	42780 *	48385 *	53507 *	59713 *	64062 *
13.0	17070	22644	29904 *	37006 *	42875 *	49154 *	56380 *	64620 *	73026 *	82903 *
11.0	18347	24983 *	33291 *	41326 *	48535 *	56528 *	65962 *	79908 *	94606 *	110059 *
9.0	19921	27294 *	36593 *	45625 *	53571 *	64956 *	80224 *	98483 *	124590 *	147602 *
7.0	21259	29164 *	39182 *	49236 *	59840 *	73550 *	95212 *	124863 *	156777 *	179835 *
5.0	22310	30684 *	41183 *	51924 *	64402 *	83777 *	110743 *	147681 *	179857 *	205191 *
3.0	23037	31778 *	42913 *	54606 *	67643 *	90972 *	124672 *	163392 *	198122 *	216060 *
1.0	23351	32352 *	44062 *	56409 *	69812 *	95028 *	132853 *	172330 *	204888 *	224099 *
0.0	23361	32311 *	44434 *	56881 *	70326 *	95626 *	132788 *	172051 *	204813 *	223631 *
-1.0	23351	32352 *	44062 *	56409 *	69812 *	95028 *	132853 *	172330 *	204888 *	224099 *
-3.0	23037	31778 *	42913 *	54606 *	67643 *	90972 *	124672 *	163392 *	198122 *	216060 *
-5.0	22310	30684 *	41183 *	51924 *	64402 *	83777 *	110743 *	147681 *	179857 *	205191 *
-7.0	21259	29164 *	39182 *	49236 *	59840 *	73550 *	95212 *	124863 *	156777 *	179835 *
-9.0	19921	27294 *	36593 *	45625 *	53571 *	64956 *	80224 *	98483 *	124590 *	147602 *
-11.0	18347	24983 *	33291 *	41326 *	48535 *	56528 *	65962 *	79908 *	94606 *	110059 *
-13.0	17070	22644	29904 *	37006 *	42875 *	49154 *	56380 *	64620 *	73026 *	82903 *
-15.0	15654	20166	26282 *	32323 *	37541 *	42780 *	48385 *	53507 *	59713 *	64062 *
-17.0	14307	17874	22932	28041 *	32295 *	36927 *	41297 *	45706 *	49381 *	52009 *
-19.5	13129	15477	19000	22973	26352 *	29884 *	33137 *	36550 *	39230 *	41116 *
-22.5	11868	13405	15480	17902	20241	22612	24769 *	27141 *	29108 *	30622 *
-25.5	10783	11887	13159	14306	15639	17076	18352	19886	21218	22234
-29.0	9684	10486	11320	12041	12590	13224	13791	14277	14879	15523
-33.0	8402	9098	9690	10175	10536	10870	11211	11519	11770	11962
-37.5	6829	7466	8026	8431	8723	8986	9218	9418	9567	9678
-42.5	5097	5601	6077	6428	6680	6905	7099	7263	7396	7498
-47.5	3603	3964	4283	4522	4710	4874	5015	5140	5242	5321
-55.0	2185	2328	2464	2578	2659	2731	2789	2834	2869	2893
-65.0	1123	1167	1211	1244	1267	1288	1306	1321	1333	1342
-75.0	525	545	562	574	582	591	599	606	612	620
-85.0	94	97	100	102	103	105	108	109	109	109
-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	109	109	109	109	109	109	109	109	108	105
75.0	620	621	621	621	620	620	612	606	599	591
65.0	1349	1347	1346	1347	1349	1342	1333	1321	1306	1288

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CANDELA TABULATION - (Cont.)

55.0	2921	2918	2917	2918	2921	2893	2869	2834	2789	2731
47.5	5408	5421	5427	5421	5408	5321	5242	5140	5015	4874
42.5	7605	7602	7601	7602	7605	7498	7396	7263	7099	6905
37.5	9751	9749	9726	9749	9751	9678	9567	9418	9218	8986
33.0	12091	12097	12072	12097	12091	11962	11770	11519	11211	10870
29.0	15958	16060	16009	16060	15958	15523	14879	14277	13791	13224
25.5	22921	23234	23249	23234	22921	22234	21218	19886	18352	17076
22.5	31657 *	32255 *	32263 *	32255 *	31657 *	30622 *	29108 *	27141 *	24769 *	22612
19.5	42760 *	43646 *	43813 *	43646 *	42760 *	41116 *	39230 *	36550 *	33137 *	29884 *
17.0	54260 *	55665 *	56044 *	55665 *	54260 *	52009 *	49381 *	45706 *	41297 *	36927 *
15.0	67020 *	69055 *	69697 *	69055 *	67020 *	64062 *	59713 *	53507 *	48385 *	42780 *
13.0	89408 *	93889 *	94924 *	93889 *	89408 *	82903 *	73026 *	64620 *	56380 *	49154 *
11.0	124072 *	131694 *	133426 *	131694 *	124072 *	110059 *	94606 *	79908 *	65962 *	56528 *
9.0	164291 *	171999 *	173399 *	171999 *	164291 *	147602 *	124590 *	98483 *	80224 *	64956 *
7.0	198649 *	205441 *	205937 *	205441 *	198649 *	179835 *	156777 *	124863 *	95212 *	73550 *
5.0	216558 *	225035 *	225035 *	225035 *	216558 *	205191 *	179857 *	147681 *	110743 *	83777 *
3.0	227503 *	232310 *	233367 *	232310 *	227503 *	216060 *	198122 *	163392 *	124672 *	90972 *
1.0	231184 *	234247 *	234520 *	234247 *	231184 *	224099 *	204888 *	172330 *	132853 *	95028 *
0.0	231495 *	233724 *	233900 *	233724 *	231495 *	223631 *	204813 *	172051 *	132788 *	95626 *
-1.0	231184 *	234247 *	234520 *	234247 *	231184 *	224099 *	204888 *	172330 *	132853 *	95028 *
-3.0	227503 *	232310 *	233367 *	232310 *	227503 *	216060 *	198122 *	163392 *	124672 *	90972 *
-5.0	216558 *	225035 *	225035 *	225035 *	216558 *	205191 *	179857 *	147681 *	110743 *	83777 *
-7.0	198649 *	205441 *	205937 *	205441 *	198649 *	179835 *	156777 *	124863 *	95212 *	73550 *
-9.0	164291 *	171999 *	173399 *	171999 *	164291 *	147602 *	124590 *	98483 *	80224 *	64956 *
-11.0	124072 *	131694 *	133426 *	131694 *	124072 *	110059 *	94606 *	79908 *	65962 *	56528 *
-13.0	89408 *	93889 *	94924 *	93889 *	89408 *	82903 *	73026 *	64620 *	56380 *	49154 *
-15.0	67020 *	69055 *	69697 *	69055 *	67020 *	64062 *	59713 *	53507 *	48385 *	42780 *
-17.0	54260 *	55665 *	56044 *	55665 *	54260 *	52009 *	49381 *	45706 *	41297 *	36927 *
-19.5	42760 *	43646 *	43813 *	43646 *	42760 *	41116 *	39230 *	36550 *	33137 *	29884 *
-22.5	31657 *	32255 *	32263 *	32255 *	31657 *	30622 *	29108 *	27141 *	24769 *	22612
-25.5	22921	23234	23249	23234	22921	22234	21218	19886	18352	17076
-29.0	15958	16060	16009	16060	15958	15523	14879	14277	13791	13224
-33.0	12091	12097	12072	12097	12091	11962	11770	11519	11211	10870
-37.5	9751	9749	9726	9749	9751	9678	9567	9418	9218	8986
-42.5	7605	7602	7601	7602	7605	7498	7396	7263	7099	6905
-47.5	5408	5421	5427	5421	5408	5321	5242	5140	5015	4874
-55.0	2921	2918	2917	2918	2921	2893	2869	2834	2789	2731
-65.0	1349	1347	1346	1347	1349	1342	1333	1321	1306	1288
-75.0	620	621	621	621	620	620	612	606	599	591
-85.0	109	109	109	109	109	109	109	109	108	105
-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	103	102	100	97	94	90	85	79	72	63
75.0	582	574	562	545	525	501	471	433	387	336
65.0	1267	1244	1211	1167	1123	1062	992	904	804	708
55.0	2659	2578	2464	2328	2185	1999	1811	1590	1358	1154
47.5	4710	4522	4283	3964	3603	3238	2820	2406	1968	1595
42.5	6680	6428	6077	5601	5097	4471	3799	3132	2492	1967
37.5	8723	8431	8026	7466	6829	6037	5085	4080	3146	2412
33.0	10536	10175	9690	9098	8402	7491	6381	5092	3818	2840
29.0	12590	12041	11320	10486	9684	8762	7501	6046	4474	3258
25.5	15639	14306	13159	11887	10783	9675	8403	6841	5106	3609

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CANDELA TABULATION - (Cont.)

22.5	20241	17902	15480	13405	11868	10474	9103	7471	5605	3953
19.5	26352 *	22973	19000	15477	13129	11279	9718	8052	6078	4262
17.0	32295 *	28041 *	22932	17874	14307	11989	10202	8494	6432	4506
15.0	37541 *	32323 *	26282 *	20166	15654	12545	10563	8812	6694	4697
13.0	42875 *	37006 *	29904 *	22644	17070	13252	10885	9078	6930	4867
11.0	48535 *	41326 *	33291 *	24983 *	18347	13866	11224	9302	7131	5013
9.0	53571 *	45625 *	36593 *	27294 *	19921	14382	11531	9478	7298	5137
7.0	59840 *	49236 *	39182 *	29164 *	21259	15023	11777	9614	7431	5236
5.0	64402 *	51924 *	41183 *	30684 *	22310	15666	11967	9713	7529	5313
3.0	67643 *	54606 *	42913 *	31778 *	23037	16111	12096	9773	7635	5401
1.0	69812 *	56409 *	44062 *	32352 *	23351	16192	12164	9801	7635	5410
0.0	70326 *	56881 *	44434 *	32311 *	23361	16149	12174	9793	7635	5415
-1.0	69812 *	56409 *	44062 *	32352 *	23351	16192	12164	9801	7635	5410
-3.0	67643 *	54606 *	42913 *	31778 *	23037	16111	12096	9773	7635	5401
-5.0	64402 *	51924 *	41183 *	30684 *	22310	15666	11967	9713	7529	5313
-7.0	59840 *	49236 *	39182 *	29164 *	21259	15023	11777	9614	7431	5236
-9.0	53571 *	45625 *	36593 *	27294 *	19921	14382	11531	9478	7298	5137
-11.0	48535 *	41326 *	33291 *	24983 *	18347	13866	11224	9302	7131	5013
-13.0	42875 *	37006 *	29904 *	22644	17070	13252	10885	9078	6930	4867
-15.0	37541 *	32323 *	26282 *	20166	15654	12545	10563	8812	6694	4697
-17.0	32295 *	28041 *	22932	17874	14307	11989	10202	8494	6432	4506
-19.5	26352 *	22973	19000	15477	13129	11279	9718	8052	6078	4262
-22.5	20241	17902	15480	13405	11868	10474	9103	7471	5605	3953
-25.5	15639	14306	13159	11887	10783	9675	8403	6841	5106	3609
-29.0	12590	12041	11320	10486	9684	8762	7501	6046	4474	3258
-33.0	10536	10175	9690	9098	8402	7491	6381	5092	3818	2840
-37.5	8723	8431	8026	7466	6829	6037	5085	4080	3146	2412
-42.5	6680	6428	6077	5601	5097	4471	3799	3132	2492	1967
-47.5	4710	4522	4283	3964	3603	3238	2820	2406	1968	1595
-55.0	2659	2578	2464	2328	2185	1999	1811	1590	1358	1154
-65.0	1267	1244	1211	1167	1123	1062	992	904	804	708
-75.0	582	574	562	545	525	501	471	433	387	336
-85.0	103	102	100	97	94	90	85	79	72	63
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles				
	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	0	0	0	0	0
85.0	48	31	18	6	0
75.0	260	161	76	19	0
65.0	556	343	162	30	0
55.0	881	554	260	47	0
47.5	1152	706	333	62	0
42.5	1356	804	387	71	0
37.5	1594	901	436	79	0
33.0	1820	988	476	85	0
29.0	2017	1063	509	90	0
25.5	2203	1127	534	94	0
22.5	2345	1173	553	97	0
19.5	2473	1218	571	100	0
17.0	2580	1252	584	102	0
15.0	2655	1275	593	103	0
13.0	2721	1295	601	105	0
11.0	2778	1312	608	108	0
9.0	2825	1327	614	108	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2863	1338	619	108	0
5.0	2900	1346	626	108	0
3.0	2939	1355	627	108	0
1.0	2945	1355	628	108	0
0.0	2949	1355	628	108	0
-1.0	2945	1355	628	108	0
-3.0	2939	1355	627	108	0
-5.0	2900	1346	626	108	0
-7.0	2863	1338	619	108	0
-9.0	2825	1327	614	108	0
-11.0	2778	1312	608	108	0
-13.0	2721	1295	601	105	0
-15.0	2655	1275	593	103	0
-17.0	2580	1252	584	102	0
-19.5	2473	1218	571	100	0
-22.5	2345	1173	553	97	0
-25.5	2203	1127	534	94	0
-29.0	2017	1063	509	90	0
-33.0	1820	988	476	85	0
-37.5	1594	901	436	79	0
-42.5	1356	804	387	71	0
-47.5	1152	706	333	62	0
-55.0	881	554	260	47	0
-65.0	556	343	162	30	0
-75.0	260	161	76	19	0
-85.0	48	31	18	6	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 34497.01

Total Field Lumens (one side of beam only) = 23874.92

* 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	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.18
75	1.11	2.22	2.22	2.20	2.17	2.13	2.09	2.04	1.99	2.42
65	3.00	5.99	5.97	5.92	5.84	5.75	5.64	5.51	5.37	6.49
55	6.49	12.99	12.92	12.78	12.60	12.37	12.09	11.74	11.34	13.55
47.5	9.53	19.03	18.85	18.55	18.19	17.75	17.22	16.60	15.89	18.78
42.5	9.92	19.81	19.62	19.28	18.88	18.39	17.80	17.12	16.35	19.26
37.5	13.20	26.41	26.23	25.85	25.37	24.75	23.99	23.12	22.15	26.18
33	14.96	29.92	29.73	29.29	28.69	27.92	27.01	26.01	24.95	29.55
29	17.13	34.22	33.75	32.80	31.64	30.48	29.26	27.91	26.55	31.26
25.5	20.94	41.65	40.75	39.15	37.09	34.81	32.56	30.27	27.96	32.16
22.5	25.36 *	50.26 *	48.97 *	46.89 *	44.05 *	40.56	37.01	33.50	29.90	33.00
19.5	34.72 *	68.64 *	66.62 *	63.65 *	59.74 *	54.71 *	49.34 *	43.93 *	38.42	40.87
17	37.92 *	74.71 *	72.22 *	68.82 *	64.42 *	58.75 *	52.60 *	46.35 *	40.14 *	42.01
15	38.15 *	74.89 *	72.12 *	68.21 *	62.83 *	56.66 *	50.47 *	44.20 *	38.12 *	39.62 *
13	49.89 *	97.22 *	92.19 *	84.73 *	75.67 *	66.86 *	58.61 *	50.94 *	43.85 *	45.38 *
11	69.13 *	133.66 *	123.50 *	109.24 *	94.16 *	80.05 *	67.94 *	58.25 *	49.70 *	51.17 *
9	92.98 *	180.23 *	165.91 *	144.46 *	119.93 *	97.36 *	79.75 *	66.08 *	55.36 *	56.71 *
7	115.26 *	225.38 *	209.78 *	184.43 *	152.24 *	119.62 *	93.54 *	74.46 *	60.98 *	61.70 *
5	131.20 *	257.44 *	243.16 *	218.61 *	183.75 *	143.54 *	108.24 *	83.22 *	66.00 *	65.64 *
3	139.47 *	274.40 *	262.93 *	242.11 *	207.84 *	163.93 *	122.21 *	90.67 *	69.86 *	68.93 *
1	142.32 *	281.66 *	273.12 *	255.42 *	222.83 *	177.96 *	132.15 *	95.60 *	72.75 *	71.59 *
0	71.31 *	141.65 *	138.32 *	129.87 *	113.73 *	91.50 *	67.98 *	48.88 *	37.10 *	36.48 *
-1	71.31 *	141.65 *	138.32 *	129.87 *	113.73 *	91.50 *	67.98 *	48.88 *	37.10 *	36.48 *
	142.32 *	281.66 *	273.12 *	255.42 *	222.83 *	177.96 *	132.15 *	95.60 *	72.75 *	71.59 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	139.47 *	274.40 *	262.93 *	242.11 *	207.84 *	163.93 *	122.21 *	90.67 *	69.86 *	68.93 *
-5	131.20 *	257.44 *	243.16 *	218.61 *	183.75 *	143.54 *	108.24 *	83.22 *	66.00 *	65.64 *
-7	115.26 *	225.38 *	209.78 *	184.43 *	152.24 *	119.62 *	93.54 *	74.46 *	60.98 *	61.70 *
-9	92.98 *	180.23 *	165.91 *	144.46 *	119.93 *	97.36 *	79.75 *	66.08 *	55.36 *	56.71 *
-11	69.13 *	133.66 *	123.50 *	109.24 *	94.16 *	80.05 *	67.94 *	58.25 *	49.70 *	51.17 *
-13	49.89 *	97.22 *	92.19 *	84.73 *	75.67 *	66.86 *	58.61 *	50.94 *	43.85 *	45.38 *
-15	38.15 *	74.89 *	72.12 *	68.21 *	62.83 *	56.66 *	50.47 *	44.20 *	38.12 *	39.62 *
-17	37.92 *	74.71 *	72.22 *	68.82 *	64.42 *	58.75 *	52.60 *	46.35 *	40.14 *	42.01
-19.5	34.72 *	68.64 *	66.62 *	63.65 *	59.74 *	54.71 *	49.34 *	43.93 *	38.42	40.87
-22.5	25.36 *	50.26 *	48.97 *	46.89 *	44.05 *	40.56	37.01	33.50	29.90	33.00
-25.5	20.94	41.65	40.75	39.15	37.09	34.81	32.56	30.27	27.96	32.16
-29	17.13	34.22	33.75	32.80	31.64	30.48	29.26	27.91	26.55	31.26
-33	14.96	29.92	29.73	29.29	28.69	27.92	27.01	26.01	24.95	29.55
-37.5	13.20	26.41	26.23	25.85	25.37	24.75	23.99	23.12	22.15	26.18
-42.5	9.92	19.81	19.62	19.28	18.88	18.39	17.80	17.12	16.35	19.26
-47.5	9.53	19.03	18.85	18.55	18.19	17.75	17.22	16.60	15.89	18.78
-55	6.49	12.99	12.92	12.78	12.60	12.37	12.09	11.74	11.34	13.55
-65	3.00	5.99	5.97	5.92	5.84	5.75	5.64	5.51	5.37	6.49
-75	1.11	2.22	2.22	2.20	2.17	2.13	2.09	2.04	1.99	2.42
-85	0.08	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.18
-90										
Total	2088.11	4105.11	3918.11	3604.84	3163.67	2652.05	2175.24	1793.12	1509.77	1585.91

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.21	0.20	0.22	0.23	0.23	0.22	0.18	0.20	0.15	0.06
85	2.78	2.63	2.87	2.99	2.99	2.83	2.31	2.53	1.90	0.74
75	7.43	7.01	7.61	7.90	7.83	7.37	6.02	6.64	5.02	1.93
65	15.29	14.20	15.09	15.31	14.82	13.58	10.83	11.79	8.88	3.43
55	20.86	18.91	19.59	19.32	18.10	16.01	12.26	12.81	9.39	3.62

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	21.25	19.06	19.44	18.70	17.01	14.58	10.80	10.84	7.64	2.90
42.5	28.97	26.08	26.58	25.31	22.52	18.74	13.48	13.09	8.85	3.29
37.5	32.90	29.86	30.66	29.36	25.98	21.17	14.80	13.93	9.08	3.28
33	34.63	31.45	32.54	31.47	28.00	22.66	15.49	14.20	8.96	3.16
29	34.97	31.29	32.26	31.38	28.19	22.93	15.49	13.86	8.53	2.94
25.5	34.50	30.02	30.42	29.49	26.71	21.89	14.76	12.98	7.81	2.64
22.5	40.54	33.73	33.23	31.78	28.83	23.80	16.07	13.97	8.22	2.74
19.5	40.14	31.71	30.03	28.19	25.51	21.18	14.32	12.34	7.15	2.36
17	37.22	28.38	25.82	23.65	21.30	17.75	12.02	10.32	5.90	1.93
15	42.22 *	31.53	27.73	24.67	22.01	18.38	12.48	10.67	6.04	1.96
13	47.27 *	34.66	29.63	25.70	22.66	18.92	12.89	10.99	6.17	1.99
11	52.11 *	37.79	31.52	26.63	23.24	19.37	13.23	11.26	6.27	2.01
9	56.40 *	40.75 *	33.45	27.52	23.73	19.72	13.51	11.48	6.35	2.03
7	59.80 *	43.16 *	35.19	28.42	24.10	20.00	13.73	11.65	6.42	2.04
5	62.51 *	45.00 *	36.54	29.15	24.37	20.21	13.93	11.83	6.50	2.06
3	64.45 *	46.13 *	37.29	29.53	24.53	20.32	14.04	11.93	6.54	2.06
1	32.66 *	23.24 *	18.73	14.80	12.29	10.17	7.02	5.97	3.27	1.03
0	32.66 *	23.24 *	18.73	14.80	12.29	10.17	7.02	5.97	3.27	1.03
-1	64.45 *	46.13 *	37.29	29.53	24.53	20.32	14.04	11.93	6.54	2.06
-3	62.51 *	45.00 *	36.54	29.15	24.37	20.21	13.93	11.83	6.50	2.06
-5	59.80 *	43.16 *	35.19	28.42	24.10	20.00	13.73	11.65	6.42	2.04
-7	56.40 *	40.75 *	33.45	27.52	23.73	19.72	13.51	11.48	6.35	2.03
-9	52.11 *	37.79	31.52	26.63	23.24	19.37	13.23	11.26	6.27	2.01
-11	47.27 *	34.66	29.63	25.70	22.66	18.92	12.89	10.99	6.17	1.99
-13	42.22 *	31.53	27.73	24.67	22.01	18.38	12.48	10.67	6.04	1.96
-15	37.22	28.38	25.82	23.65	21.30	17.75	12.02	10.32	5.90	1.93
-17	40.14	31.71	30.03	28.19	25.51	21.18	14.32	12.34	7.15	2.36
-19.5	40.54	33.73	33.23	31.78	28.83	23.80	16.07	13.97	8.22	2.74

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	34.50	30.02	30.42	29.49	26.71	21.89	14.76	12.98	7.81	2.64
-25.5	34.97	31.29	32.26	31.38	28.19	22.93	15.49	13.86	8.53	2.94
-29	34.63	31.45	32.54	31.47	28.00	22.66	15.49	14.20	8.96	3.16
-33	32.90	29.86	30.66	29.36	25.98	21.17	14.80	13.93	9.08	3.28
-37.5	28.97	26.08	26.58	25.31	22.52	18.74	13.48	13.09	8.85	3.29
-42.5	21.25	19.06	19.44	18.70	17.01	14.58	10.80	10.84	7.64	2.90
-47.5	20.86	18.91	19.59	19.32	18.10	16.01	12.26	12.81	9.39	3.62
-55	15.29	14.20	15.09	15.31	14.82	13.58	10.83	11.79	8.88	3.43
-65	7.43	7.01	7.61	7.90	7.83	7.37	6.02	6.64	5.02	1.93
-75	2.78	2.63	2.87	2.99	2.99	2.83	2.31	2.53	1.90	0.74
-85	0.21	0.20	0.22	0.23	0.23	0.22	0.18	0.20	0.15	0.06
-90										
Total	1538.23	1213.56	1112.86	1003.00	889.90	743.58	519.33	470.55	290.09	100.40

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		3.47
85				
	0.16	0.00		45.32
75				
	0.38	0.01		120.63
65				
	0.66	0.01		242.77
55				
	0.70	0.01		321.95
47.5				
	0.56	0.01		319.22
42.5				
	0.64	0.01		424.82
37.5				
	0.64	0.01		479.70
33				
	0.61	0.01		518.17
29				
	0.57	0.01		559.77
25.5				
	0.51	0.01		601.23
22.5				
	0.52	0.01		754.07
19.5				
	0.45	0.01		771.33
17				
	0.37	0.01		729.93

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

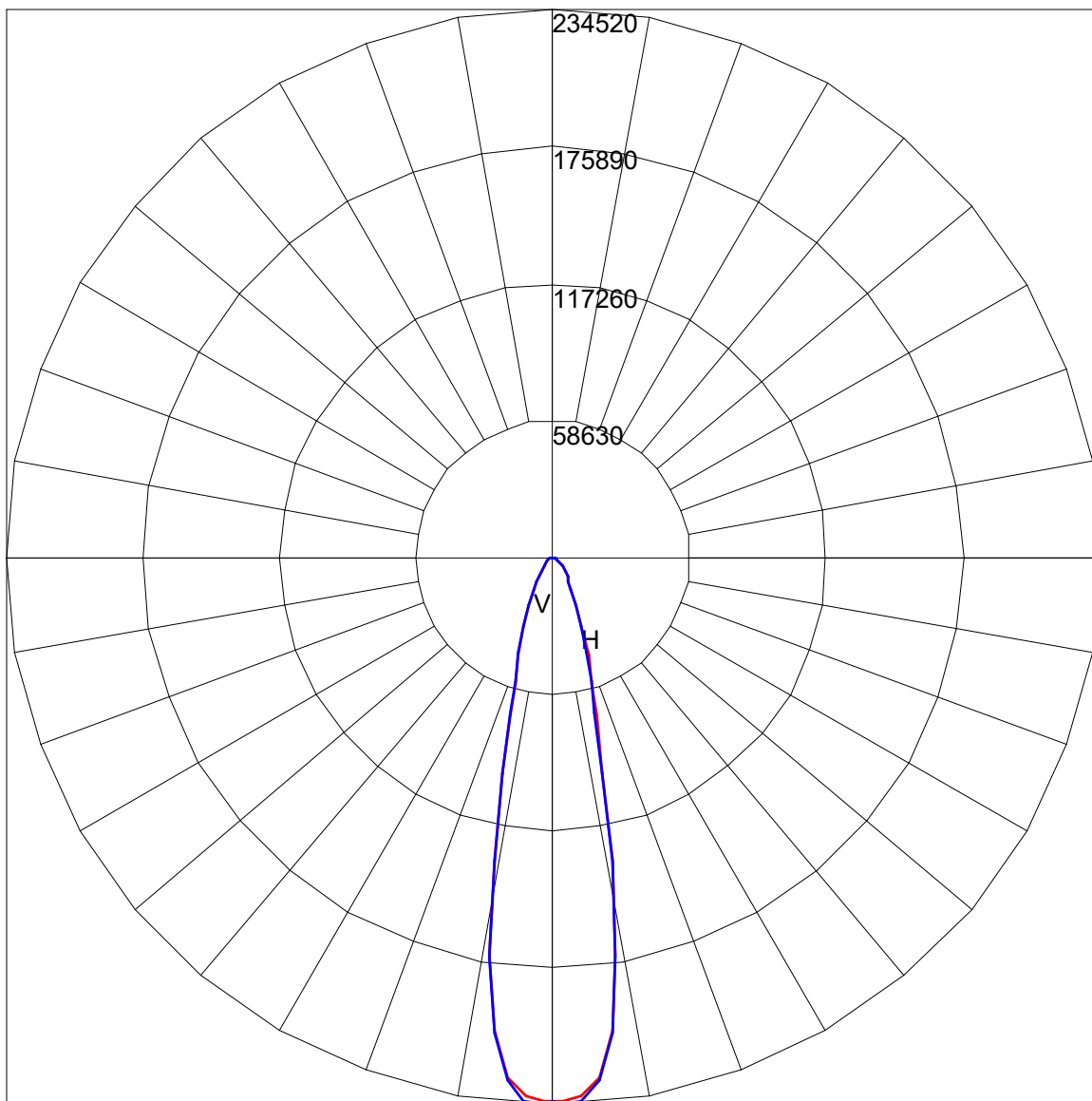
15	0.37	0.01	863.41
13	0.38	0.01	1048.06
11	0.38	0.01	1282.58
9	0.38	0.01	1532.72
7	0.39	0.01	1745.72
5	0.39	0.01	1894.85
3	0.39	0.01	1982.61
1	0.19	0.00	1006.21
0	0.19	0.00	1006.21
-1	0.39	0.01	1982.61
-3	0.39	0.01	1894.85
-5	0.39	0.01	1745.72
-7	0.38	0.01	1532.72
-9	0.38	0.01	1282.58
-11	0.38	0.01	1048.06
-13	0.37	0.01	863.41
-15	0.37	0.01	729.93
-17	0.45	0.01	771.33
-19.5	0.52	0.01	754.07
-22.5	0.51	0.01	601.23
-25.5	0.57	0.01	559.77
-29	0.61	0.01	518.17
-33	0.64	0.01	479.70
-37.5	0.64	0.01	424.82
-42.5	0.56	0.01	319.22
-47.5	0.70	0.01	321.95
-55	0.66	0.01	242.77
-65	0.38	0.01	120.63

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40.IES

LUMENS TABULATION - (Cont.)

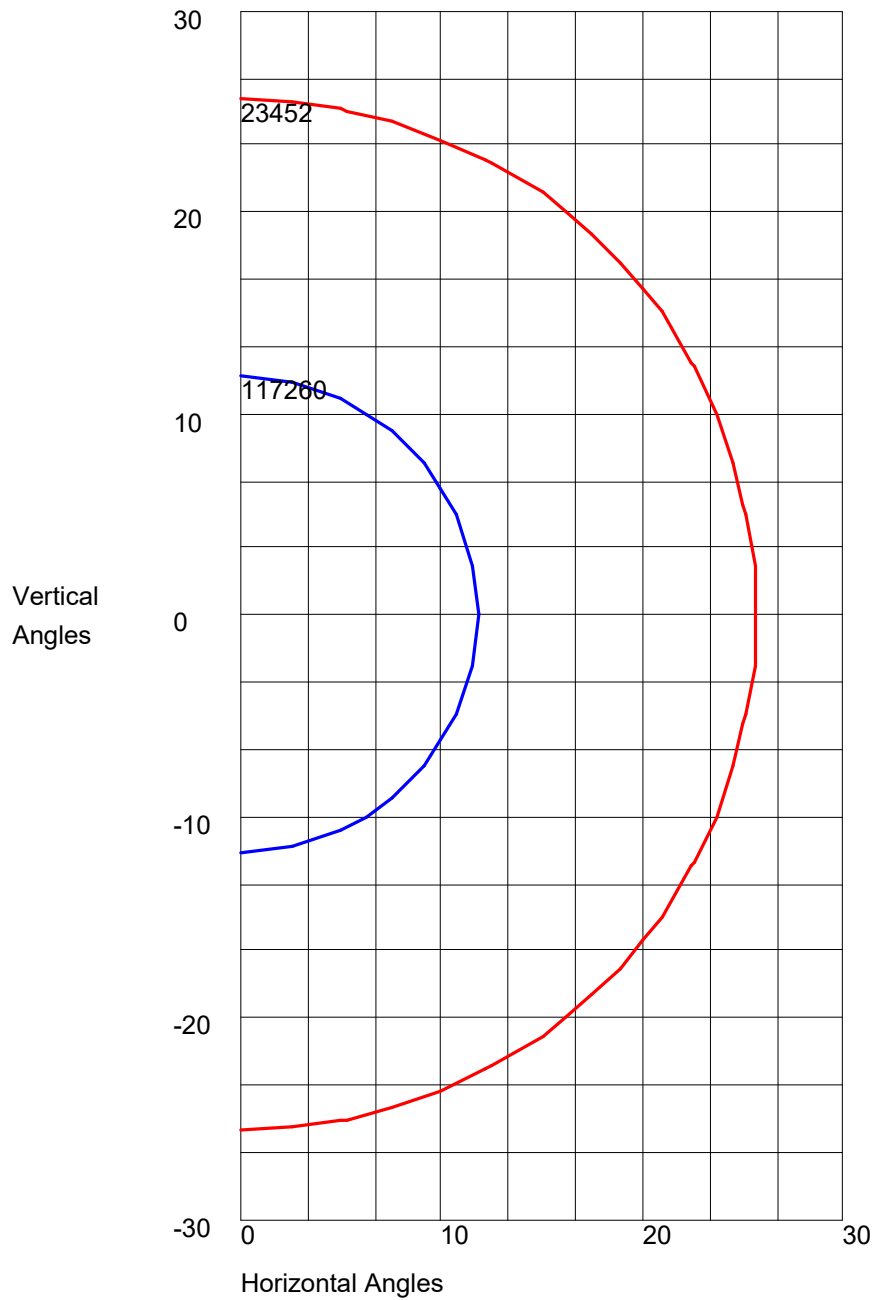
-75	0.16	0.00	45.32
-85	0.02	0.00	3.47
-90			
Total	19.28	0.37	34497.06

AXIAL CANDELA DISPLAY



Maximum Candela = 234520 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 234520 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 117260
10% Maximum Candela = 23452