



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5170  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]02/19/14  
[TEST DATE]02/19/14  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XFLM-NF-LED-49-HO-NW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]5658  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

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

**CHARACTERISTICS**

NEMA Type	4 H x 3 V
Maximum Candela	23703
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	23.3
Vertical Beam Angle (50%)	21.7
Horizontal Field Angle (10%)	48.4
Vertical Field Angle (10%)	44.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	2005
Beam Efficiency	N.A.
Field Lumens	4187
Field Efficiency	N.A.
Spill Lumens	1485
Luminaire Lumens	5671
Total Efficiency	N.A.
Total Luminaire Watts	64.2
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	61	85	5
75	59	75	14
65	94	65	49
55	188	55	134
47.5	285	47.5	209
42.5	381	42.5	294
37.5	562	37.5	459
33	857	33	696
29	1275	29	1040
25.5	1964	25.5	1553
22.5	2919	22.5	2360
19.5	4354	19.5	3630
17	6034	17	5151
15	7832	15	6808
13	10056	13	8891
11	12731	11	11437
9	16068	9	14313
7	19003	7	17269
5	21493	5	19954
3	23161	3	22006
1	23703	1	23025
0	23322	0	23322
-1	23703	-1	23025
-3	23161	-3	22006
-5	21493	-5	19954
-7	19003	-7	17269
-9	16068	-9	14313
-11	12731	-11	11437
-13	10056	-13	8891
-15	7832	-15	6808
-17	6034	-17	5151
-19.5	4354	-19.5	3630
-22.5	2919	-22.5	2360
-25.5	1964	-25.5	1553
-29	1275	-29	1040
-33	857	-33	696
-37.5	562	-37.5	459
-42.5	381	-42.5	294
-47.5	285	-47.5	209
-55	188	-55	134
-65	94	-65	49
-75	59	-75	14
-85	61	-85	5
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 23703

Beam Edge = 11851.5 Cd (50% of Max.)

Field Edge = 2370.3 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	14	30	39	31	33	45	52	50
<b>75.0</b>	0	24	32	55	54	35	31	37	42	44
<b>65.0</b>	0	40	35	43	47	53	60	75	81	81
<b>55.0</b>	0	49	34	47	85	92	79	79	108	130
<b>47.5</b>	0	50	37	51	87	90	134	115	153	176
<b>42.5</b>	0	52	39	51	108	137	136	166	182	208
<b>37.5</b>	0	53	42	58	96	128	181	204	238	270
<b>33.0</b>	0	54	43	62	109	183	207	252	291	329
<b>29.0</b>	0	55	48	66	122	197	237	293	351	404
<b>25.5</b>	0	56	53	68	120	190	260	326	407	498
<b>22.5</b>	0	57	57	73	120	199	270	355	464	589
<b>19.5</b>	0	57	61	79	132	204	284	388	529	693
<b>17.0</b>	0	58	62	83	147	206	295	414	585	795
<b>15.0</b>	0	58	62	86	158	217	304	432	623	873
<b>13.0</b>	0	59	62	90	167	228	315	455	655	957
<b>11.0</b>	0	60	62	93	175	237	328	479	696	1026
<b>9.0</b>	0	60	62	94	181	246	340	504	742	1082
<b>7.0</b>	0	60	61	94	186	254	350	526	783	1142
<b>5.0</b>	0	60	61	94	188	262	359	544	816	1200
<b>3.0</b>	0	61	60	95	189	273	371	557	841	1246
<b>1.0</b>	0	61	59	94	188	281	378	562	854	1272
<b>0.0</b>	0	61	59	94	188	285	381	562	857	1275
<b>-1.0</b>	0	61	59	94	188	281	378	562	854	1272
<b>-3.0</b>	0	61	60	95	189	273	371	557	841	1246
<b>-5.0</b>	0	60	61	94	188	262	359	544	816	1200
<b>-7.0</b>	0	60	61	94	186	254	350	526	783	1142
<b>-9.0</b>	0	60	62	94	181	246	340	504	742	1082
<b>-11.0</b>	0	60	62	93	175	237	328	479	696	1026
<b>-13.0</b>	0	59	62	90	167	228	315	455	655	957
<b>-15.0</b>	0	58	62	86	158	217	304	432	623	873
<b>-17.0</b>	0	58	62	83	147	206	295	414	585	795
<b>-19.5</b>	0	57	61	79	132	204	284	388	529	693
<b>-22.5</b>	0	57	57	73	120	199	270	355	464	589
<b>-25.5</b>	0	56	53	68	120	190	260	326	407	498
<b>-29.0</b>	0	55	48	66	122	197	237	293	351	404
<b>-33.0</b>	0	54	43	62	109	183	207	252	291	329
<b>-37.5</b>	0	53	42	58	96	128	181	204	238	270
<b>-42.5</b>	0	52	39	51	108	137	136	166	182	208
<b>-47.5</b>	0	50	37	51	87	90	134	115	153	176
<b>-55.0</b>	0	49	34	47	85	92	79	79	108	130
<b>-65.0</b>	0	40	35	43	47	53	60	75	81	81
<b>-75.0</b>	0	24	32	55	54	35	31	37	42	44
<b>-85.0</b>	0	8	14	30	39	31	33	45	52	50
<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	47	47	47	47	47	43	39	34	30	26
75.0	47	45	40	36	33	30	29	27	26	24
65.0	83	82	81	80	79	79	77	75	73	71
55.0	137	142	145	149	152	154	153	151	148	146
47.5	187	203	224	230	228	226	224	221	219	218
42.5	244	263	279	296	301	303	300	298	298	297
37.5	303	340	372	396	407	418	425	431	448	460
33.0	379	439	508	552	582	604	632	661	683	696
29.0	476	561	658	738	794	854	908	956	996	1010
25.5	586	714	862	960	1054	1161	1267	1359	1453	1509
22.5	740	912	1090	1274	1436	1618	1792	1993	2153	2265
19.5	907	1114	1407	1722	1978	2275	2614 *	2956 *	3213 *	3397 *
17.0	1050	1336	1750	2187	2602 *	3037 *	3500 *	4012 *	4459 *	4774 *
15.0	1168	1523	2054	2643 *	3242 *	3790 *	4396 *	5071 *	5765 *	6233 *
13.0	1308	1764	2419 *	3134 *	3843 *	4659 *	5491 *	6403 *	7399 *	8075 *
11.0	1432	1982	2805 *	3686 *	4526 *	5678 *	6785 *	8084 *	9367 *	10406 *
9.0	1542	2198	3200 *	4282 *	5400 *	6777 *	8241 *	9762 *	11469 *	12864 *
7.0	1675	2415 *	3564 *	4885 *	6187 *	7787 *	9668 *	11669 *	13558 *	15499 *
5.0	1796	2627 *	3938 *	5432 *	6945 *	8771 *	10992 *	13322 *	15752 *	17808 *
3.0	1891	2779 *	4158 *	5837 *	7559 *	9648 *	12093 *	14747 *	17348 *	19762 *
1.0	1949	2886 *	4297 *	6094 *	7914 *	10198 *	12904 *	15830 *	18724 *	21176 *
0.0	1964	2919 *	4354 *	6034 *	7832 *	10056 *	12731 *	16068 *	19003 *	21493 *
-1.0	1949	2886 *	4297 *	6094 *	7914 *	10198 *	12904 *	15830 *	18724 *	21176 *
-3.0	1891	2779 *	4158 *	5837 *	7559 *	9648 *	12093 *	14747 *	17348 *	19762 *
-5.0	1796	2627 *	3938 *	5432 *	6945 *	8771 *	10992 *	13322 *	15752 *	17808 *
-7.0	1675	2415 *	3564 *	4885 *	6187 *	7787 *	9668 *	11669 *	13558 *	15499 *
-9.0	1542	2198	3200 *	4282 *	5400 *	6777 *	8241 *	9762 *	11469 *	12864 *
-11.0	1432	1982	2805 *	3686 *	4526 *	5678 *	6785 *	8084 *	9367 *	10406 *
-13.0	1308	1764	2419 *	3134 *	3843 *	4659 *	5491 *	6403 *	7399 *	8075 *
-15.0	1168	1523	2054	2643 *	3242 *	3790 *	4396 *	5071 *	5765 *	6233 *
-17.0	1050	1336	1750	2187	2602 *	3037 *	3500 *	4012 *	4459 *	4774 *
-19.5	907	1114	1407	1722	1978	2275	2614 *	2956 *	3213 *	3397 *
-22.5	740	912	1090	1274	1436	1618	1792	1993	2153	2265
-25.5	586	714	862	960	1054	1161	1267	1359	1453	1509
-29.0	476	561	658	738	794	854	908	956	996	1010
-33.0	379	439	508	552	582	604	632	661	683	696
-37.5	303	340	372	396	407	418	425	431	448	460
-42.5	244	263	279	296	301	303	300	298	298	297
-47.5	187	203	224	230	228	226	224	221	219	218
-55.0	137	142	145	149	152	154	153	151	148	146
-65.0	83	82	81	80	79	79	77	75	73	71
-75.0	47	45	40	36	33	30	29	27	26	24
-85.0	47	47	47	47	47	43	39	34	30	26
-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	18	9	5	9	18	26	30	34	39	43
75.0	20	16	14	16	20	24	26	27	29	30
65.0	64	54	49	54	64	71	73	75	77	79

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**CANDELA TABULATION - (Cont.)**

55.0	143	137	134	137	143	146	148	151	153	154
47.5	217	212	209	212	217	218	219	221	224	226
42.5	297	295	294	295	297	297	298	298	300	303
37.5	468	464	459	464	468	460	448	431	425	418
33.0	703	700	696	700	703	696	683	661	632	604
29.0	1008	1028	1040	1028	1008	1010	996	956	908	854
25.5	1533	1548	1553	1548	1533	1509	1453	1359	1267	1161
22.5	2317	2347	2360	2347	2317	2265	2153	1993	1792	1618
19.5	3544 *	3631 *	3630 *	3631 *	3544 *	3397 *	3213 *	2956 *	2614 *	2275
17.0	5067 *	5225 *	5151 *	5225 *	5067 *	4774 *	4459 *	4012 *	3500 *	3037 *
15.0	6623 *	6906 *	6808 *	6906 *	6623 *	6233 *	5765 *	5071 *	4396 *	3790 *
13.0	8585 *	9024 *	8891 *	9024 *	8585 *	8075 *	7399 *	6403 *	5491 *	4659 *
11.0	10948 *	11604 *	11437 *	11604 *	10948 *	10406 *	9367 *	8084 *	6785 *	5678 *
9.0	13846 *	14516 *	14313 *	14516 *	13846 *	12864 *	11469 *	9762 *	8241 *	6777 *
7.0	16684 *	17512 *	17269 *	17512 *	16684 *	15499 *	13558 *	11669 *	9668 *	7787 *
5.0	19356 *	20227 *	19954 *	20227 *	19356 *	17808 *	15752 *	13322 *	10992 *	8771 *
3.0	21310 *	22104 *	22006 *	22104 *	21310 *	19762 *	17348 *	14747 *	12093 *	9648 *
1.0	22773 *	23255 *	23025 *	23255 *	22773 *	21176 *	18724 *	15830 *	12904 *	10198 *
0.0	23161 *	23703 *	23322 *	23703 *	23161 *	21493 *	19003 *	16068 *	12731 *	10056 *
-1.0	22773 *	23255 *	23025 *	23255 *	22773 *	21176 *	18724 *	15830 *	12904 *	10198 *
-3.0	21310 *	22104 *	22006 *	22104 *	21310 *	19762 *	17348 *	14747 *	12093 *	9648 *
-5.0	19356 *	20227 *	19954 *	20227 *	19356 *	17808 *	15752 *	13322 *	10992 *	8771 *
-7.0	16684 *	17512 *	17269 *	17512 *	16684 *	15499 *	13558 *	11669 *	9668 *	7787 *
-9.0	13846 *	14516 *	14313 *	14516 *	13846 *	12864 *	11469 *	9762 *	8241 *	6777 *
-11.0	10948 *	11604 *	11437 *	11604 *	10948 *	10406 *	9367 *	8084 *	6785 *	5678 *
-13.0	8585 *	9024 *	8891 *	9024 *	8585 *	8075 *	7399 *	6403 *	5491 *	4659 *
-15.0	6623 *	6906 *	6808 *	6906 *	6623 *	6233 *	5765 *	5071 *	4396 *	3790 *
-17.0	5067 *	5225 *	5151 *	5225 *	5067 *	4774 *	4459 *	4012 *	3500 *	3037 *
-19.5	3544 *	3631 *	3630 *	3631 *	3544 *	3397 *	3213 *	2956 *	2614 *	2275
-22.5	2317	2347	2360	2347	2317	2265	2153	1993	1792	1618
-25.5	1533	1548	1553	1548	1533	1509	1453	1359	1267	1161
-29.0	1008	1028	1040	1028	1008	1010	996	956	908	854
-33.0	703	700	696	700	703	696	683	661	632	604
-37.5	468	464	459	464	468	460	448	431	425	418
-42.5	297	295	294	295	297	297	298	298	300	303
-47.5	217	212	209	212	217	218	219	221	224	226
-55.0	143	137	134	137	143	146	148	151	153	154
-65.0	64	54	49	54	64	71	73	75	77	79
-75.0	20	16	14	16	20	24	26	27	29	30
-85.0	18	9	5	9	18	26	30	34	39	43
-90.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0
85.0	47	47	47	47	47	50	52	45	33	31
75.0	33	36	40	45	47	44	42	37	31	35
65.0	79	80	81	82	83	81	81	75	60	53
55.0	152	149	145	142	137	130	108	79	79	92
47.5	228	230	224	203	187	176	153	115	134	90
42.5	301	296	279	263	244	208	182	166	136	137
37.5	407	396	372	340	303	270	238	204	181	128
33.0	582	552	508	439	379	329	291	252	207	183
29.0	794	738	658	561	476	404	351	293	237	197
25.5	1054	960	862	714	586	498	407	326	260	190

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**CANDELA TABULATION - (Cont.)**

22.5	1436	1274	1090	912	740	589	464	355	270	199
19.5	1978	1722	1407	1114	907	693	529	388	284	204
17.0	2602 *	2187	1750	1336	1050	795	585	414	295	206
15.0	3242 *	2643 *	2054	1523	1168	873	623	432	304	217
13.0	3843 *	3134 *	2419 *	1764	1308	957	655	455	315	228
11.0	4526 *	3686 *	2805 *	1982	1432	1026	696	479	328	237
9.0	5400 *	4282 *	3200 *	2198	1542	1082	742	504	340	246
7.0	6187 *	4885 *	3564 *	2415 *	1675	1142	783	526	350	254
5.0	6945 *	5432 *	3938 *	2627 *	1796	1200	816	544	359	262
3.0	7559 *	5837 *	4158 *	2779 *	1891	1246	841	557	371	273
1.0	7914 *	6094 *	4297 *	2886 *	1949	1272	854	562	378	281
0.0	7832 *	6034 *	4354 *	2919 *	1964	1275	857	562	381	285
-1.0	7914 *	6094 *	4297 *	2886 *	1949	1272	854	562	378	281
-3.0	7559 *	5837 *	4158 *	2779 *	1891	1246	841	557	371	273
-5.0	6945 *	5432 *	3938 *	2627 *	1796	1200	816	544	359	262
-7.0	6187 *	4885 *	3564 *	2415 *	1675	1142	783	526	350	254
-9.0	5400 *	4282 *	3200 *	2198	1542	1082	742	504	340	246
-11.0	4526 *	3686 *	2805 *	1982	1432	1026	696	479	328	237
-13.0	3843 *	3134 *	2419 *	1764	1308	957	655	455	315	228
-15.0	3242 *	2643 *	2054	1523	1168	873	623	432	304	217
-17.0	2602 *	2187	1750	1336	1050	795	585	414	295	206
-19.5	1978	1722	1407	1114	907	693	529	388	284	204
-22.5	1436	1274	1090	912	740	589	464	355	270	199
-25.5	1054	960	862	714	586	498	407	326	260	190
-29.0	794	738	658	561	476	404	351	293	237	197
-33.0	582	552	508	439	379	329	291	252	207	183
-37.5	407	396	372	340	303	270	238	204	181	128
-42.5	301	296	279	263	244	208	182	166	136	137
-47.5	228	230	224	203	187	176	153	115	134	90
-55.0	152	149	145	142	137	130	108	79	79	92
-65.0	79	80	81	82	83	81	81	75	60	53
-75.0	33	36	40	45	47	44	42	37	31	35
-85.0	47	47	47	47	47	50	52	45	33	31
-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	39	30	14	8	0
75.0	54	55	32	24	0
65.0	47	43	35	40	0
55.0	85	47	34	49	0
47.5	87	51	37	50	0
42.5	108	51	39	52	0
37.5	96	58	42	53	0
33.0	109	62	43	54	0
29.0	122	66	48	55	0
25.5	120	68	53	56	0
22.5	120	73	57	57	0
19.5	132	79	61	57	0
17.0	147	83	62	58	0
15.0	158	86	62	58	0
13.0	167	90	62	59	0
11.0	175	93	62	60	0
9.0	181	94	62	60	0

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**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	186	94	61	60	0
<b>5.0</b>	188	94	61	60	0
<b>3.0</b>	189	95	60	61	0
<b>1.0</b>	188	94	59	61	0
<b>0.0</b>	188	94	59	61	0
<b>-1.0</b>	188	94	59	61	0
<b>-3.0</b>	189	95	60	61	0
<b>-5.0</b>	188	94	61	60	0
<b>-7.0</b>	186	94	61	60	0
<b>-9.0</b>	181	94	62	60	0
<b>-11.0</b>	175	93	62	60	0
<b>-13.0</b>	167	90	62	59	0
<b>-15.0</b>	158	86	62	58	0
<b>-17.0</b>	147	83	62	58	0
<b>-19.5</b>	132	79	61	57	0
<b>-22.5</b>	120	73	57	57	0
<b>-25.5</b>	120	68	53	56	0
<b>-29.0</b>	122	66	48	55	0
<b>-33.0</b>	109	62	43	54	0
<b>-37.5</b>	96	58	42	53	0
<b>-42.5</b>	108	51	39	52	0
<b>-47.5</b>	87	51	37	50	0
<b>-55.0</b>	85	47	34	49	0
<b>-65.0</b>	47	43	35	40	0
<b>-75.0</b>	54	55	32	24	0
<b>-85.0</b>	39	30	14	8	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2835.58

Total Field Lumens (one side of beam only) = 2093.3

\* 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	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08
75	0.03	0.10	0.13	0.16	0.18	0.19	0.21	0.23	0.24	0.31
65	0.10	0.23	0.27	0.29	0.30	0.31	0.32	0.33	0.33	0.43
55	0.28	0.61	0.64	0.66	0.67	0.68	0.69	0.69	0.67	0.82
47.5	0.40	0.81	0.82	0.83	0.84	0.84	0.85	0.84	0.83	1.01
42.5	0.38	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.77	0.93
37.5	0.58	1.16	1.16	1.14	1.11	1.09	1.08	1.06	1.02	1.21
33	0.79	1.60	1.59	1.56	1.51	1.45	1.39	1.34	1.28	1.49
29	1.06	2.09	2.08	2.05	1.99	1.89	1.79	1.68	1.56	1.78
25.5	1.38	2.73	2.69	2.63	2.51	2.36	2.18	2.00	1.82	2.04
22.5	1.78	3.54	3.47	3.35	3.15	2.88	2.61	2.34	2.07	2.27
19.5	2.73 *	5.41 *	5.25 *	5.01 *	4.67 *	4.21	3.71	3.24	2.82	2.98
17	3.36 *	6.65 *	6.37 *	6.00 *	5.52 *	4.91 *	4.26 *	3.65 *	3.11	3.19
15	3.67 *	7.25 *	6.90 *	6.43 *	5.82 *	5.09 *	4.39 *	3.74 *	3.13 *	3.12
13	4.82 *	9.48 *	8.97 *	8.32 *	7.43 *	6.41 *	5.46 *	4.59 *	3.77 *	3.71 *
11	6.24 *	12.23 *	11.55 *	10.68 *	9.43 *	8.03 *	6.74 *	5.53 *	4.45 *	4.35 *
9	7.90 *	15.50 *	14.60 *	13.36 *	11.67 *	9.86 *	8.19 *	6.61 *	5.24 *	5.05 *
7	9.69 *	19.04 *	17.90 *	16.17 *	14.01 *	11.80 *	9.68 *	7.73 *	6.08 *	5.76 *
5	11.42 *	22.46 *	21.07 *	18.97 *	16.38 *	13.69 *	11.09 *	8.77 *	6.87 *	6.44 *
3	12.84 *	25.27 *	23.77 *	21.41 *	18.45 *	15.34 *	12.37 *	9.73 *	7.55 *	7.00 *
1	13.77 *	27.23 *	25.83 *	23.33 *	20.10 *	16.67 *	13.36 *	10.44 *	8.02 *	7.37 *
0	7.11 *	14.14 *	13.46 *	12.18 *	10.50 *	8.63 *	6.84 *	5.32 *	4.08 *	3.76 *
-1	7.11 *	14.14 *	13.46 *	12.18 *	10.50 *	8.63 *	6.84 *	5.32 *	4.08 *	3.76 *
	13.77 *	27.23 *	25.83 *	23.33 *	20.10 *	16.67 *	13.36 *	10.44 *	8.02 *	7.37 *



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	12.84 *	25.27 *	23.77 *	21.41 *	18.45 *	15.34 *	12.37 *	9.73 *	7.55 *	7.00 *
<b>-5</b>	11.42 *	22.46 *	21.07 *	18.97 *	16.38 *	13.69 *	11.09 *	8.77 *	6.87 *	6.44 *
<b>-7</b>	9.69 *	19.04 *	17.90 *	16.17 *	14.01 *	11.80 *	9.68 *	7.73 *	6.08 *	5.76 *
<b>-9</b>	7.90 *	15.50 *	14.60 *	13.36 *	11.67 *	9.86 *	8.19 *	6.61 *	5.24 *	5.05 *
<b>-11</b>	6.24 *	12.23 *	11.55 *	10.68 *	9.43 *	8.03 *	6.74 *	5.53 *	4.45 *	4.35 *
<b>-13</b>	4.82 *	9.48 *	8.97 *	8.32 *	7.43 *	6.41 *	5.46 *	4.59 *	3.77 *	3.71 *
<b>-15</b>	3.67 *	7.25 *	6.90 *	6.43 *	5.82 *	5.09 *	4.39 *	3.74 *	3.13 *	3.12
<b>-17</b>	3.36 *	6.65 *	6.37 *	6.00 *	5.52 *	4.91 *	4.26 *	3.65 *	3.11	3.19
<b>-19.5</b>	2.73 *	5.41 *	5.25 *	5.01 *	4.67 *	4.21	3.71	3.24	2.82	2.98
<b>-22.5</b>	1.78	3.54	3.47	3.35	3.15	2.88	2.61	2.34	2.07	2.27
<b>-25.5</b>	1.38	2.73	2.69	2.63	2.51	2.36	2.18	2.00	1.82	2.04
<b>-29</b>	1.06	2.09	2.08	2.05	1.99	1.89	1.79	1.68	1.56	1.78
<b>-33</b>	0.79	1.60	1.59	1.56	1.51	1.45	1.39	1.34	1.28	1.49
<b>-37.5</b>	0.58	1.16	1.16	1.14	1.11	1.09	1.08	1.06	1.02	1.21
<b>-42.5</b>	0.38	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.77	0.93
<b>-47.5</b>	0.40	0.81	0.82	0.83	0.84	0.84	0.85	0.84	0.83	1.01
<b>-55</b>	0.28	0.61	0.64	0.66	0.67	0.68	0.69	0.69	0.67	0.82
<b>-65</b>	0.10	0.23	0.27	0.29	0.30	0.31	0.32	0.33	0.33	0.43
<b>-75</b>	0.03	0.10	0.13	0.16	0.18	0.19	0.21	0.23	0.24	0.31
<b>-85</b>	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08
<b>-90</b>										
<b>Total</b>	180.64	356.60	338.72	310.73	274.15	234.38	196.06	161.40	131.54	130.23

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
<b>90</b>										
	0.10	0.10	0.11	0.13	0.14	0.11	0.09	0.13	0.13	0.06
<b>85</b>	0.38	0.39	0.45	0.49	0.49	0.43	0.35	0.57	0.68	0.34
<b>75</b>	0.53	0.54	0.60	0.65	0.66	0.59	0.48	0.68	0.76	0.43
<b>65</b>	0.96	0.93	1.02	1.04	0.96	0.85	0.76	0.99	0.84	0.41
<b>55</b>	1.14	1.05	1.12	1.11	0.95	0.89	0.80	0.95	0.77	0.33

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	1.03	0.94	0.97	0.94	0.86	0.80	0.67	0.75	0.56	0.23
<b>42.5</b>										
	1.34	1.20	1.21	1.17	1.11	1.00	0.78	0.84	0.60	0.25
<b>37.5</b>										
	1.59	1.37	1.37	1.33	1.24	1.11	0.85	0.83	0.56	0.24
<b>33</b>										
	1.85	1.55	1.50	1.44	1.33	1.15	0.89	0.87	0.55	0.23
<b>29</b>										
	2.09	1.71	1.63	1.52	1.35	1.14	0.83	0.79	0.50	0.21
<b>25.5</b>										
	2.29	1.85	1.72	1.53	1.30	1.06	0.74	0.67	0.43	0.20
<b>22.5</b>										
	2.89	2.30	2.08	1.78	1.46	1.13	0.77	0.70	0.46	0.21
<b>19.5</b>										
	2.99	2.30	2.04	1.70	1.34	1.01	0.67	0.62	0.42	0.19
<b>17</b>										
	2.84	2.12	1.84	1.50	1.15	0.84	0.55	0.52	0.36	0.15
<b>15</b>										
	3.31	2.41	2.04	1.62	1.21	0.88	0.57	0.55	0.38	0.16
<b>13</b>										
	3.83	2.71	2.24	1.74	1.28	0.92	0.60	0.58	0.40	0.16
<b>11</b>										
	4.34 *	2.99	2.41	1.85	1.35	0.96	0.62	0.60	0.41	0.16
<b>9</b>										
	4.85 *	3.27	2.58	1.96	1.43	1.00	0.64	0.62	0.42	0.16
<b>7</b>										
	5.35 *	3.55	2.75	2.06	1.49	1.04	0.66	0.64	0.43	0.16
<b>5</b>										
	5.76 *	3.80	2.91	2.14	1.54	1.07	0.68	0.65	0.43	0.16
<b>3</b>										
	6.02 *	3.97 *	3.01	2.20	1.57	1.09	0.70	0.67	0.43	0.16
<b>1</b>										
	3.08 *	2.03 *	1.53	1.11	0.79	0.55	0.36	0.34	0.21	0.08
<b>0</b>										
	3.08 *	2.03 *	1.53	1.11	0.79	0.55	0.36	0.34	0.21	0.08
<b>-1</b>										
	6.02 *	3.97 *	3.01	2.20	1.57	1.09	0.70	0.67	0.43	0.16
<b>-3</b>										
	5.76 *	3.80	2.91	2.14	1.54	1.07	0.68	0.65	0.43	0.16
<b>-5</b>										
	5.35 *	3.55	2.75	2.06	1.49	1.04	0.66	0.64	0.43	0.16
<b>-7</b>										
	4.85 *	3.27	2.58	1.96	1.43	1.00	0.64	0.62	0.42	0.16
<b>-9</b>										
	4.34 *	2.99	2.41	1.85	1.35	0.96	0.62	0.60	0.41	0.16
<b>-11</b>										
	3.83	2.71	2.24	1.74	1.28	0.92	0.60	0.58	0.40	0.16
<b>-13</b>										
	3.31	2.41	2.04	1.62	1.21	0.88	0.57	0.55	0.38	0.16
<b>-15</b>										
	2.84	2.12	1.84	1.50	1.15	0.84	0.55	0.52	0.36	0.15
<b>-17</b>										
	2.99	2.30	2.04	1.70	1.34	1.01	0.67	0.62	0.42	0.19
<b>-19.5</b>										
	2.89	2.30	2.08	1.78	1.46	1.13	0.77	0.70	0.46	0.21

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	2.29	1.85	1.72	1.53	1.30	1.06	0.74	0.67	0.43	0.20
<b>-25.5</b>	2.09	1.71	1.63	1.52	1.35	1.14	0.83	0.79	0.50	0.21
<b>-29</b>	1.85	1.55	1.50	1.44	1.33	1.15	0.89	0.87	0.55	0.23
<b>-33</b>	1.59	1.37	1.37	1.33	1.24	1.11	0.85	0.83	0.56	0.24
<b>-37.5</b>	1.34	1.20	1.21	1.17	1.11	1.00	0.78	0.84	0.60	0.25
<b>-42.5</b>	1.03	0.94	0.97	0.94	0.86	0.80	0.67	0.75	0.56	0.23
<b>-47.5</b>	1.14	1.05	1.12	1.11	0.95	0.89	0.80	0.95	0.77	0.33
<b>-55</b>	0.96	0.93	1.02	1.04	0.96	0.85	0.76	0.99	0.84	0.41
<b>-65</b>	0.53	0.54	0.60	0.65	0.66	0.59	0.48	0.68	0.76	0.43
<b>-75</b>	0.38	0.39	0.45	0.49	0.49	0.43	0.35	0.57	0.68	0.34
<b>-85</b>	0.10	0.10	0.11	0.13	0.14	0.11	0.09	0.13	0.13	0.06
<b>-90</b>										
<b>Total</b>	117.14	86.07	74.26	62.02	50.03	39.26	28.11	29.07	21.47	9.35

<b>Vert. Angles</b>	<b>Horizontal Angles</b>			
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>	<b><u>Total</u></b>
<b>90</b>				
	0.01	0.00		1.60
<b>85</b>				
	0.10	0.01		6.44
<b>75</b>				
	0.17	0.01		9.02
<b>65</b>				
	0.21	0.01		15.43
<b>55</b>				
	0.17	0.01		17.36
<b>47.5</b>				
	0.12	0.01		15.44
<b>42.5</b>				
	0.12	0.01		20.23
<b>37.5</b>				
	0.11	0.01		24.59
<b>33</b>				
	0.11	0.01		29.42
<b>29</b>				
	0.10	0.01		34.20
<b>25.5</b>				
	0.09	0.01		39.36
<b>22.5</b>				
	0.09	0.01		53.92
<b>19.5</b>				
	0.08	0.00		60.36
<b>17</b>				
	0.06	0.00		61.49

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

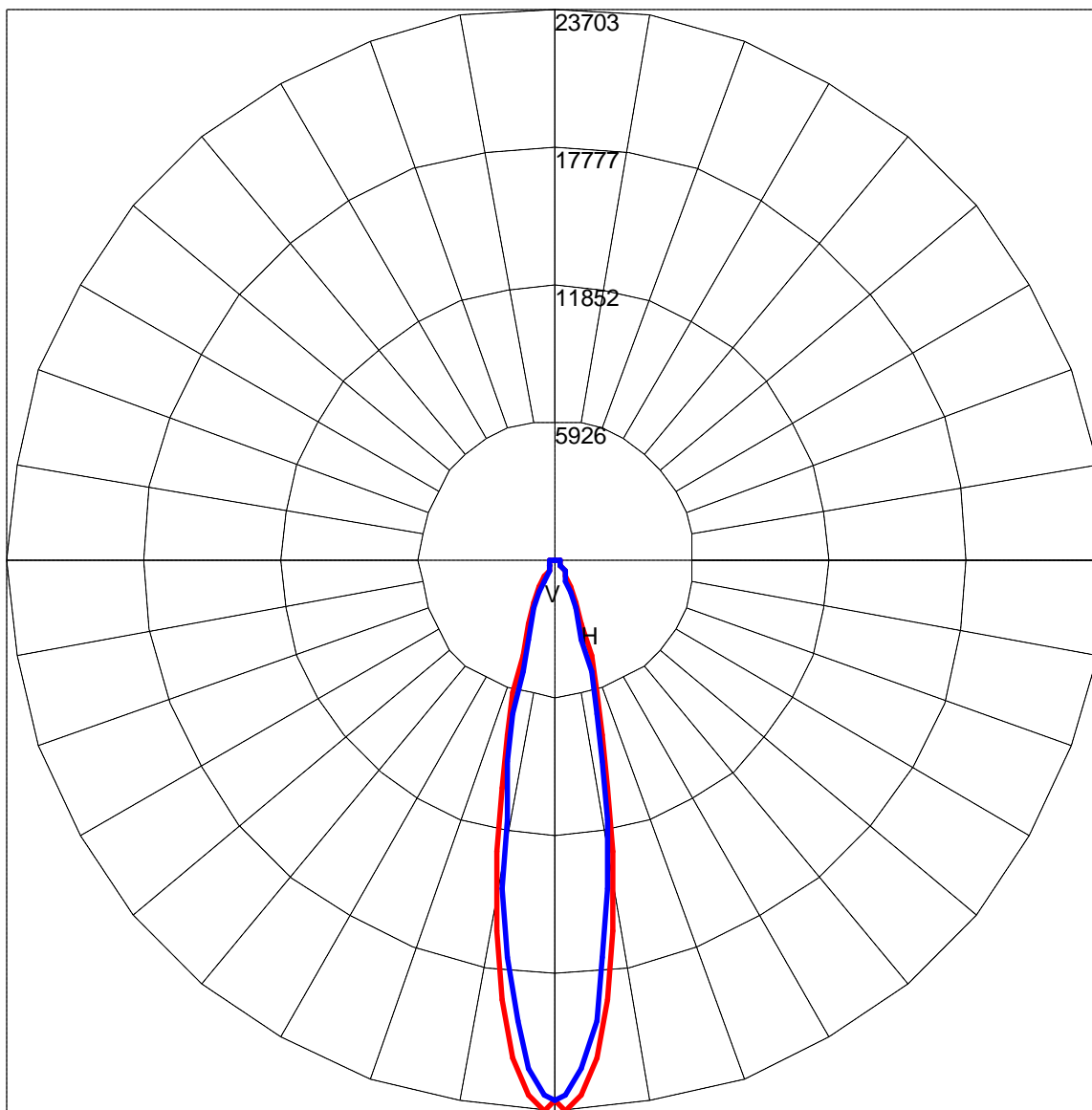
<b>15</b>	0.06	0.00	76.15
<b>13</b>	0.06	0.00	93.73
<b>11</b>	0.06	0.00	113.76
<b>9</b>	0.06	0.00	134.86
<b>7</b>	0.06	0.00	155.36
<b>5</b>	0.06	0.00	172.93
<b>3</b>	0.06	0.00	186.02
<b>1</b>	0.03	0.00	96.12
<b>0</b>	0.03	0.00	96.12
<b>-1</b>	0.06	0.00	186.02
<b>-3</b>	0.06	0.00	172.93
<b>-5</b>	0.06	0.00	155.36
<b>-7</b>	0.06	0.00	134.86
<b>-9</b>	0.06	0.00	113.76
<b>-11</b>	0.06	0.00	93.73
<b>-13</b>	0.06	0.00	76.15
<b>-15</b>	0.06	0.00	61.49
<b>-17</b>	0.08	0.00	60.36
<b>-19.5</b>	0.09	0.01	53.92
<b>-22.5</b>	0.09	0.01	39.36
<b>-25.5</b>	0.10	0.01	34.20
<b>-29</b>	0.11	0.01	29.42
<b>-33</b>	0.11	0.01	24.59
<b>-37.5</b>	0.12	0.01	20.23
<b>-42.5</b>	0.12	0.01	15.44
<b>-47.5</b>	0.17	0.01	17.36
<b>-55</b>	0.21	0.01	15.43
<b>-65</b>	0.17	0.01	9.02

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

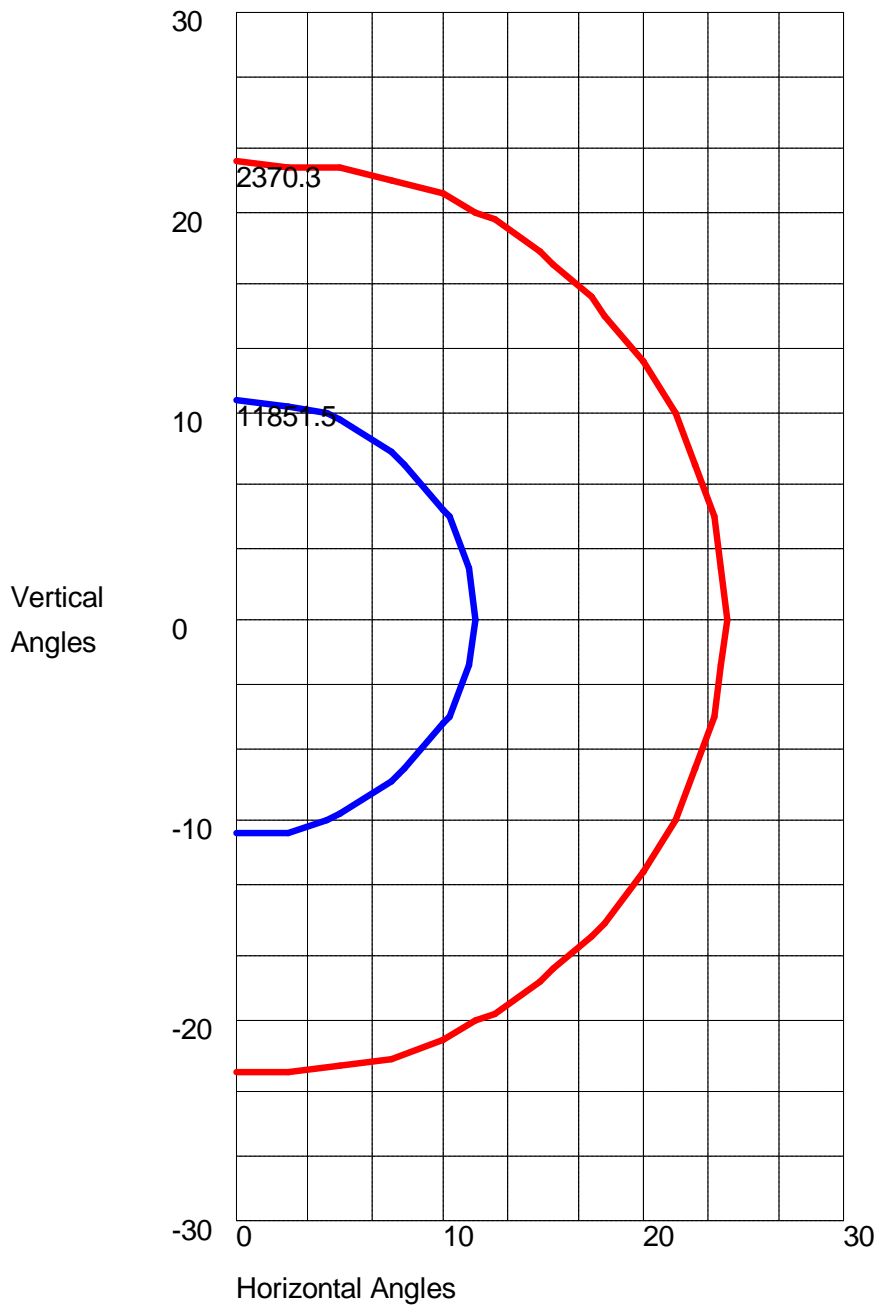
<b>-75</b>	0.10	0.01	6.44
<b>-85</b>	0.01	0.00	1.60
<b>-90</b>			
<b>Total</b>	4.06	0.26	2835.57

AXIAL CANDELA DISPLAY



Maximum Candela = 23703 Located At Horizontal Angle = -1, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 23703 Located At Horizontal Angle = -1, Vertical Angle = 0  
50% Maximum Candela = 11851.5  
10% Maximum Candela = 2370.3