



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-4367

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]08/20/13

[TEST DATE]08/20/13

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]XFLM-VF-LED-49-HO-CW

[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[\_ABSOLUTE LUMENS]6504

[LUMINAIRE] XFLM

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Outdoor

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

### CHARACTERISTICS

NEMA Type	3 H x 5 V
Maximum Candela	18627
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	17.9
Vertical Beam Angle (50%)	53.3
Horizontal Field Angle (10%)	38.3
Vertical Field Angle (10%)	76.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	3222
Beam Efficiency	N.A.
Field Lumens	5262
Field Efficiency	N.A.
Spill Lumens	1286
Luminaire Lumens	6548
Total Efficiency	N.A.
Total Luminaire Watts	64
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	51	85	48
75	70	75	63
65	99	65	103
55	151	55	237
47.5	198	47.5	548
42.5	232	42.5	972
37.5	300	37.5	2062
33	418	33	4043
29	610	29	7047
25.5	831	25.5	10456
22.5	1194	22.5	13559
19.5	1751	19.5	16201
17	2506	17	17500
15	3342	15	17826
13	4674	13	17734
11	6603	11	17583
9	9201	9	17536
7	12355	7	17676
5	15772	5	18010
3	18002	3	18368
1	18600	1	18559
0	18627	0	18627
-1	18600	-1	18559
-3	18002	-3	18368
-5	15772	-5	18010
-7	12355	-7	17676
-9	9201	-9	17536
-11	6603	-11	17583
-13	4674	-13	17734
-15	3342	-15	17826
-17	2506	-17	17500
-19.5	1751	-19.5	16201
-22.5	1194	-22.5	13559
-25.5	831	-25.5	10456
-29	610	-29	7047
-33	418	-33	4043
-37.5	300	-37.5	2062
-42.5	232	-42.5	972
-47.5	198	-47.5	548
-55	151	-55	237
-65	99	-65	103
-75	70	-75	63
-85	51	-85	48
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 18627

Beam Edge = 9313.5 Cd (50% of Max.)

Field Edge = 1862.7 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	25	38	45	44	45	44	45	46
<b>75.0</b>	0	24	49	50	53	53	54	54	55	55
<b>65.0</b>	0	38	52	56	60	66	70	71	74	77
<b>55.0</b>	0	46	55	63	75	87	94	100	108	115
<b>47.5</b>	0	47	58	70	90	111	126	135	150	166
<b>42.5</b>	0	47	59	74	96	129	142	157	183	208
<b>37.5</b>	0	48	60	78	105	134	151	175	206	249
<b>33.0</b>	0	48	61	83	116	142	163	190	229	286
<b>29.0</b>	0	49	62	88	125	151	174	205	251	330
<b>25.5</b>	0	49	63	92	131	157	183	220	278	376
<b>22.5</b>	0	50	64	93	137	162	190	232	305	416
<b>19.5</b>	0	50	65	95	139	166	197	246	326	459
<b>17.0</b>	0	51	66	96	141	168	199	255	346	485
<b>15.0</b>	0	51	66	97	142	173	204	259	357	499
<b>13.0</b>	0	51	67	98	143	177	210	267	367	514
<b>11.0</b>	0	51	67	98	144	181	216	276	379	535
<b>9.0</b>	0	51	68	99	145	185	222	285	392	552
<b>7.0</b>	0	51	68	99	146	188	227	292	404	569
<b>5.0</b>	0	51	69	99	147	191	231	297	413	588
<b>3.0</b>	0	51	69	100	149	195	233	300	419	602
<b>1.0</b>	0	51	70	99	150	197	232	301	418	607
<b>0.0</b>	0	51	70	99	151	198	232	300	418	610
<b>-1.0</b>	0	51	70	99	150	197	232	301	418	607
<b>-3.0</b>	0	51	69	100	149	195	233	300	419	602
<b>-5.0</b>	0	51	69	99	147	191	231	297	413	588
<b>-7.0</b>	0	51	68	99	146	188	227	292	404	569
<b>-9.0</b>	0	51	68	99	145	185	222	285	392	552
<b>-11.0</b>	0	51	67	98	144	181	216	276	379	535
<b>-13.0</b>	0	51	67	98	143	177	210	267	367	514
<b>-15.0</b>	0	51	66	97	142	173	204	259	357	498
<b>-17.0</b>	0	51	66	96	141	168	199	255	346	485
<b>-19.5</b>	0	50	65	95	139	166	197	246	326	459
<b>-22.5</b>	0	50	64	93	137	162	190	232	305	416
<b>-25.5</b>	0	49	63	92	131	157	183	220	278	375
<b>-29.0</b>	0	49	62	88	125	151	174	205	251	330
<b>-33.0</b>	0	48	61	83	116	142	163	190	229	286
<b>-37.5</b>	0	48	60	78	105	134	151	175	206	249
<b>-42.5</b>	0	47	59	74	96	129	142	157	183	208
<b>-47.5</b>	0	47	58	70	90	111	126	135	149	166
<b>-55.0</b>	0	46	55	63	75	87	94	100	108	115
<b>-65.0</b>	0	38	52	56	60	66	70	71	74	77
<b>-75.0</b>	0	24	49	50	53	53	54	54	55	55
<b>-85.0</b>	0	8	25	38	45	44	45	44	45	46
<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	46	47	48	49	50	49	49	49	48	47
75.0	56	57	57	57	57	58	59	60	61	61
65.0	79	81	85	87	88	91	93	96	98	99
55.0	129	141	154	164	173	182	193	204	215	225
47.5	186	213	240	269	302	336	372	411	453	492
42.5	247	293	351	405	471	546	622	710	803	893
37.5	310	379	490	601	707	852	1019	1214	1437	1676
33.0	371	479	632	819	998	1249	1616	2055 *	2567 *	3126 *
29.0	435	591	803	1064	1350	1740	2381 *	3178 *	4094 *	5201 *
25.5	511	703	976	1306	1721	2302 *	3174 *	4455 *	5998 *	7630 *
22.5	590	804	1118	1531	2020 *	2831 *	3897 *	5559 *	7667 *	9875 *
19.5	652	884	1243	1770	2351 *	3255 *	4655 *	6578 *	9039 *	11858 *
17.0	680	924	1356	1903 *	2514 *	3577 *	5072 *	7169 *	9749 *	12810 *
15.0	703	968	1401	1966 *	2698 *	3716 *	5209 *	7342 *	10068 *	13080 *
13.0	717	1006	1464	2065 *	2743 *	3818 *	5416 *	7559 *	10248 *	13225 *
11.0	735	1021	1509	2129 *	2911 *	3997 *	5545 *	7769 *	10477 *	13363 *
9.0	772	1088	1590	2233 *	2925 *	4136 *	5792 *	7984 *	10694 *	13569 *
7.0	800	1134	1655	2343 *	3173 *	4315 *	5999 *	8281 *	11004 *	13881 *
5.0	825	1166	1693	2411 *	3303 *	4565 *	6288 *	8655 *	11543 *	14462 *
3.0	831	1182	1737	2475 *	3352 *	4665 *	6523 *	8961 *	11962 *	14918 *
1.0	828	1189	1742	2488 *	3332 *	4627 *	6519 *	9051 *	12162 *	15654 *
0.0	831	1194	1751	2506 *	3342 *	4674 *	6603 *	9201 *	12355 *	15772 *
-1.0	828	1189	1742	2488 *	3332 *	4627 *	6519 *	9051 *	12162 *	15654 *
-3.0	831	1182	1737	2475 *	3352 *	4665 *	6519 *	8960 *	11962 *	14917 *
-5.0	825	1166	1693	2411 *	3303 *	4565 *	6288 *	8652 *	11543 *	14461 *
-7.0	800	1134	1655	2343 *	3171 *	4315 *	5999 *	8270 *	11004 *	13881 *
-9.0	771	1088	1589	2232 *	2925 *	4136 *	5792 *	7984 *	10692 *	13569 *
-11.0	734	1021	1509	2129 *	2911 *	3997 *	5544 *	7769 *	10477 *	13363 *
-13.0	716	1006	1462	2065 *	2742 *	3816 *	5416 *	7559 *	10248 *	13225 *
-15.0	703	968	1401	1963 *	2698 *	3715 *	5209 *	7342 *	10068 *	13080 *
-17.0	680	924	1356	1903 *	2514 *	3577 *	5072 *	7169 *	9749 *	12810 *
-19.5	651	884	1243	1769	2351 *	3255 *	4655 *	6578 *	9039 *	11858 *
-22.5	590	804	1118	1528	2020 *	2831 *	3892 *	5554 *	7667 *	9875 *
-25.5	510	703	976	1306	1721	2302 *	3174 *	4455 *	5998 *	7630 *
-29.0	435	591	802	1064	1350	1740	2381 *	3178 *	4094 *	5201 *
-33.0	371	479	632	819	998	1249	1616	2055 *	2567 *	3126 *
-37.5	310	379	490	601	707	852	1019	1214	1437	1676
-42.5	247	293	351	405	471	546	622	710	803	893
-47.5	186	213	240	269	302	336	372	411	453	492
-55.0	129	141	154	164	173	182	193	204	215	225
-65.0	79	81	85	87	88	91	93	96	98	99
-75.0	56	57	57	57	57	58	59	60	61	61
-85.0	46	47	48	49	50	49	49	49	48	47
-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	47	48	48	48	47	47	48	49	49	49
75.0	62	63	63	63	62	61	61	60	59	58
65.0	101	102	103	102	101	99	98	96	93	91

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**CANDELA TABULATION - (Cont.)**

55.0	234	237	237	237	234	225	215	204	193	182
47.5	527	543	548	543	527	492	453	411	372	336
42.5	959	973	972	973	959	896	803	711	623	546
37.5	1902 *	2025 *	2062 *	2025 *	1900 *	1676	1441	1215	1019	852
33.0	3682 *	3953 *	4043 *	3953 *	3682 *	3126 *	2567 *	2060 *	1618	1249
29.0	6308 *	6869 *	7047 *	6869 *	6308 *	5208 *	4115 *	3178 *	2381 *	1740
25.5	9212 *	10135 *	10456 *	10135 *	9212 *	7630 *	5998 *	4455 *	3174 *	2302 *
22.5	11920 *	13131 *	13559 *	13131 *	11920 *	9875 *	7669 *	5554 *	3897 *	2831 *
19.5	14196 *	15635 *	16201 *	15635 *	14222 *	11952 *	9046 *	6578 *	4655 *	3255 *
17.0	15340 *	16881 *	17500 *	16881 *	15349 *	12813 *	9756 *	7169 *	5072 *	3577 *
15.0	15639 *	17213 *	17826 *	17213 *	15674 *	13119 *	10068 *	7343 *	5221 *	3716 *
13.0	15732 *	17177 *	17734 *	17177 *	15732 *	13259 *	10287 *	7585 *	5420 *	3818 *
11.0	15790 *	17100 *	17583 *	17100 *	15824 *	13363 *	10477 *	7773 *	5545 *	3997 *
9.0	15882 *	17109 *	17536 *	17109 *	15887 *	13582 *	10733 *	7984 *	5792 *	4136 *
7.0	16162 *	17280 *	17676 *	17280 *	16162 *	13881 *	11004 *	8270 *	5999 *	4315 *
5.0	16678 *	17704 *	18010 *	17704 *	16678 *	14462 *	11543 *	8655 *	6288 *	4565 *
3.0	17071 *	18118 *	18368 *	18118 *	17069 *	14918 *	11962 *	8961 *	6519 *	4665 *
1.0	17691 *	18418 *	18559 *	18418 *	17691 *	15695 *	12240 *	9141 *	6576 *	4665 *
0.0	18002 *	18600 *	18627 *	18600 *	18002 *	15772 *	12355 *	9201 *	6603 *	4674 *
-1.0	17691 *	18418 *	18559 *	18418 *	17691 *	15695 *	12240 *	9141 *	6576 *	4665 *
-3.0	17069 *	18118 *	18368 *	18118 *	17071 *	14917 *	11962 *	8960 *	6523 *	4665 *
-5.0	16678 *	17695 *	18010 *	17695 *	16678 *	14461 *	11543 *	8652 *	6288 *	4565 *
-7.0	16162 *	17270 *	17676 *	17270 *	16162 *	13881 *	11004 *	8281 *	5999 *	4315 *
-9.0	15882 *	17104 *	17536 *	17104 *	15887 *	13582 *	10732 *	7984 *	5792 *	4136 *
-11.0	15790 *	17100 *	17583 *	17100 *	15824 *	13363 *	10477 *	7772 *	5544 *	3997 *
-13.0	15732 *	17178 *	17734 *	17178 *	15732 *	13259 *	10287 *	7585 *	5420 *	3816 *
-15.0	15639 *	17213 *	17826 *	17213 *	15674 *	13119 *	10068 *	7343 *	5221 *	3715 *
-17.0	15340 *	16876 *	17500 *	16876 *	15349 *	12813 *	9756 *	7169 *	5072 *	3577 *
-19.5	14196 *	15621 *	16201 *	15621 *	14222 *	11952 *	9046 *	6578 *	4655 *	3255 *
-22.5	11920 *	13112 *	13559 *	13112 *	11920 *	9875 *	7669 *	5559 *	3892 *	2831 *
-25.5	9194 *	10115 *	10456 *	10115 *	9194 *	7630 *	5998 *	4455 *	3174 *	2302 *
-29.0	6267 *	6852 *	7047 *	6852 *	6267 *	5208 *	4115 *	3178 *	2381 *	1740
-33.0	3642 *	3940 *	4043 *	3940 *	3642 *	3126 *	2567 *	2060 *	1618	1249
-37.5	1900 *	2019 *	2062 *	2019 *	1902 *	1676	1441	1215	1019	852
-42.5	958	971	972	971	958	896	803	711	623	546
-47.5	526	541	548	541	526	492	453	411	372	336
-55.0	234	236	237	236	234	225	215	204	193	182
-65.0	100	102	103	102	100	99	98	96	93	91
-75.0	62	63	63	63	62	61	61	60	59	58
-85.0	47	48	48	48	47	47	48	49	49	49
-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	50	49	48	47	46	46	45	44	45	44
75.0	57	57	57	57	56	55	55	54	54	53
65.0	88	87	85	81	79	77	74	71	70	66
55.0	173	164	154	141	129	115	108	100	94	87
47.5	302	269	240	213	186	166	150	135	126	111
42.5	471	405	352	293	247	208	183	158	142	129
37.5	707	601	490	379	310	249	206	175	151	134
33.0	1000	819	632	479	371	286	229	190	163	142
29.0	1350	1064	803	591	435	330	253	205	174	151
25.5	1721	1306	976	703	511	376	278	220	183	157

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**CANDELA TABULATION - (Cont.)**

22.5	2020 *	1531	1118	804	590	418	305	232	190	162
19.5	2367 *	1769	1254	885	652	459	326	246	197	166
17.0	2522 *	1903 *	1356	924	682	485	346	255	200	168
15.0	2698 *	1966 *	1401	968	703	498	357	259	204	173
13.0	2742 *	2065 *	1462	1006	717	514	367	267	210	177
11.0	2911 *	2129 *	1509	1023	735	535	379	276	216	181
9.0	2954 *	2233 *	1590	1088	772	552	392	285	222	185
7.0	3173 *	2343 *	1655	1134	800	569	404	292	227	188
5.0	3303 *	2411 *	1693	1166	825	588	413	297	231	191
3.0	3352 *	2475 *	1737	1183	831	602	419	300	233	195
1.0	3356 *	2503 *	1750	1193	830	608	419	301	232	197
0.0	3342 *	2506 *	1751	1194	831	610	418	300	232	198
-1.0	3356 *	2503 *	1750	1193	830	608	419	301	232	197
-3.0	3352 *	2475 *	1737	1183	831	602	419	300	233	195
-5.0	3303 *	2411 *	1693	1166	825	588	413	297	231	191
-7.0	3171 *	2343 *	1655	1134	800	569	404	292	227	188
-9.0	2954 *	2232 *	1589	1088	771	552	392	285	222	185
-11.0	2911 *	2129 *	1509	1023	734	535	379	276	216	181
-13.0	2743 *	2065 *	1464	1006	716	514	367	267	210	177
-15.0	2698 *	1963 *	1401	968	703	498	357	259	204	173
-17.0	2522 *	1903 *	1356	924	682	485	346	255	200	168
-19.5	2367 *	1770	1254	885	652	459	326	246	197	166
-22.5	2020 *	1528	1118	804	590	418	305	232	190	162
-25.5	1721	1306	976	703	511	375	278	220	183	157
-29.0	1350	1064	802	591	435	330	253	205	174	151
-33.0	1000	819	632	479	371	286	229	190	163	142
-37.5	707	601	490	379	310	249	206	175	151	134
-42.5	471	405	352	293	247	208	183	157	142	129
-47.5	302	269	240	213	186	166	149	135	126	111
-55.0	173	164	154	141	129	115	108	100	94	87
-65.0	88	87	85	81	79	77	74	71	70	66
-75.0	57	57	57	57	56	55	55	54	53	53
-85.0	50	49	48	47	46	46	45	44	45	44
-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	45	38	25	8	0
75.0	53	50	49	24	0
65.0	60	56	52	38	0
55.0	75	63	55	46	0
47.5	90	70	58	47	0
42.5	96	74	59	47	0
37.5	105	78	60	48	0
33.0	116	83	61	48	0
29.0	125	88	62	49	0
25.5	131	92	63	49	0
22.5	137	93	64	50	0
19.5	139	95	65	50	0
17.0	141	96	66	51	0
15.0	142	97	66	51	0
13.0	143	98	67	51	0
11.0	144	98	67	51	0
9.0	145	99	68	51	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	146	99	68	51	0
<b>5.0</b>	147	99	69	51	0
<b>3.0</b>	149	100	69	51	0
<b>1.0</b>	150	99	70	51	0
<b>0.0</b>	151	99	70	51	0
<b>-1.0</b>	150	99	70	51	0
<b>-3.0</b>	149	100	69	51	0
<b>-5.0</b>	147	99	69	51	0
<b>-7.0</b>	146	99	68	51	0
<b>-9.0</b>	145	99	68	51	0
<b>-11.0</b>	144	98	67	51	0
<b>-13.0</b>	143	98	67	51	0
<b>-15.0</b>	142	97	66	51	0
<b>-17.0</b>	141	96	66	51	0
<b>-19.5</b>	139	95	65	50	0
<b>-22.5</b>	137	93	64	50	0
<b>-25.5</b>	131	92	63	49	0
<b>-29.0</b>	125	88	62	49	0
<b>-33.0</b>	116	83	61	48	0
<b>-37.5</b>	105	78	60	48	0
<b>-42.5</b>	96	74	59	47	0
<b>-47.5</b>	90	70	58	47	0
<b>-55.0</b>	75	63	55	46	0
<b>-65.0</b>	60	56	52	38	0
<b>-75.0</b>	53	50	49	24	0
<b>-85.0</b>	45	38	25	8	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 3273.87

Total Field Lumens (one side of beam only) = 2631.00

\* 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	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.09
75	0.17	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.31	0.38
65	0.25	0.50	0.49	0.48	0.48	0.46	0.45	0.43	0.42	0.52
55	0.52	1.03	1.00	0.96	0.92	0.88	0.83	0.79	0.75	0.89
47.5	0.89	1.76	1.68	1.57	1.45	1.33	1.21	1.10	1.00	1.12
42.5	1.16	2.28	2.18	2.00	1.79	1.59	1.40	1.22	1.06	1.14
37.5	2.30	4.46	4.13	3.64	3.14	2.67	2.26	1.90	1.60	1.67
33	4.14 *	7.92 *	7.10 *	6.00 *	4.94	3.99	3.18	2.53	2.06	2.07
29	6.67 *	12.67 *	11.13 *	9.09 *	7.18 *	5.54 *	4.16	3.16	2.48	2.40
25.5	9.20 *	17.33 *	15.08 *	12.16 *	9.36 *	6.92 *	5.00 *	3.68	2.79	2.63
22.5	10.80 *	20.27 *	17.61 *	14.16 *	10.71 *	7.69 *	5.45 *	3.93 *	2.89	2.67
19.5	13.37 *	25.07 *	21.84 *	17.49 *	13.05 *	9.31 *	6.54 *	4.64 *	3.37 *	3.07
17	12.61 *	23.62 *	20.61 *	16.48 *	12.27 *	8.80 *	6.17 *	4.33 *	3.13 *	2.84
15	10.57 *	19.82 *	17.29 *	13.85 *	10.36 *	7.44 *	5.24 *	3.70 *	2.66 *	2.40
13	10.65 *	20.02 *	17.54 *	14.14 *	10.63 *	7.66 *	5.41 *	3.83 *	2.77 *	2.49
11	10.60 *	20.04 *	17.67 *	14.34 *	10.89 *	7.89 *	5.59 *	3.98 *	2.88 *	2.59
9	10.56 *	20.06 *	17.82 *	14.58 *	11.14 *	8.13 *	5.80 *	4.13 *	2.99 *	2.70 *
7	10.60 *	20.22 *	18.08 *	14.90 *	11.46 *	8.41 *	6.03 *	4.30 *	3.13 *	2.83 *
5	10.76 *	20.65 *	18.59 *	15.42 *	11.91 *	8.76 *	6.31 *	4.54 *	3.29 *	2.93 *
3	11.00 *	21.18 *	19.18 *	16.02 *	12.40 *	9.13 *	6.57 *	4.69 *	3.38 *	3.01 *
1	11.19 *	21.70 *	19.86 *	16.59 *	12.74 *	9.34 *	6.67 *	4.73 *	3.42 *	3.06 *
0	5.65 *	11.07 *	10.20 *	8.48 *	6.46 *	4.72 *	3.35 *	2.37 *	1.71 *	1.54 *
-1	5.65 *	11.07 *	10.20 *	8.48 *	6.46 *	4.72 *	3.35 *	2.37 *	1.71 *	1.54 *
	11.19 *	21.70 *	19.86 *	16.59 *	12.73 *	9.34 *	6.67 *	4.73 *	3.42 *	3.06 *



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	10.99 *	21.18 *	19.18 *	16.02 *	12.40 *	9.13 *	6.57 *	4.69 *	3.38 *	3.01 *
<b>-5</b>	10.76 *	20.64 *	18.59 *	15.42 *	11.91 *	8.76 *	6.31 *	4.54 *	3.29 *	2.93 *
<b>-7</b>	10.60 *	20.22 *	18.08 *	14.90 *	11.45 *	8.41 *	6.03 *	4.30 *	3.13 *	2.83 *
<b>-9</b>	10.56 *	20.06 *	17.82 *	14.58 *	11.14 *	8.13 *	5.80 *	4.13 *	2.99 *	2.70 *
<b>-11</b>	10.60 *	20.04 *	17.67 *	14.34 *	10.89 *	7.89 *	5.59 *	3.98 *	2.88 *	2.59
<b>-13</b>	10.65 *	20.02 *	17.54 *	14.14 *	10.63 *	7.66 *	5.41 *	3.83 *	2.77 *	2.49
<b>-15</b>	10.57 *	19.81 *	17.29 *	13.85 *	10.36 *	7.44 *	5.24 *	3.70 *	2.66 *	2.39
<b>-17</b>	12.60 *	23.61 *	20.61 *	16.48 *	12.27 *	8.80 *	6.17 *	4.33 *	3.13 *	2.84
<b>-19.5</b>	13.36 *	25.05 *	21.84 *	17.49 *	13.05 *	9.31 *	6.54 *	4.64 *	3.37 *	3.07
<b>-22.5</b>	10.79 *	20.25 *	17.60 *	14.16 *	10.71 *	7.68 *	5.45 *	3.93 *	2.89	2.67
<b>-25.5</b>	9.19 *	17.28 *	15.05 *	12.16 *	9.36 *	6.92 *	5.00 *	3.68	2.79	2.62
<b>-29</b>	6.67 *	12.60 *	11.08 *	9.09 *	7.18 *	5.54 *	4.16	3.16	2.48	2.40
<b>-33</b>	4.13 *	7.88 *	7.07 *	6.00 *	4.94	3.99	3.18	2.53	2.06	2.07
<b>-37.5</b>	2.29	4.45	4.12	3.64	3.14	2.67	2.26	1.90	1.60	1.67
<b>-42.5</b>	1.15	2.28	2.18	2.00	1.79	1.59	1.40	1.22	1.06	1.14
<b>-47.5</b>	0.89	1.75	1.68	1.57	1.45	1.33	1.21	1.10	1.00	1.12
<b>-55</b>	0.52	1.02	1.00	0.96	0.92	0.88	0.83	0.79	0.75	0.89
<b>-65</b>	0.25	0.50	0.49	0.48	0.48	0.46	0.45	0.43	0.42	0.52
<b>-75</b>	0.17	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.31	0.38
<b>-85</b>	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.09
<b>-90</b>										
<b>Total</b>	307.33	583.89	518.85	425.54	327.38	242.10	176.03	128.77	96.31	90.04

<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>										
<b>85</b>	0.10	0.10	0.11	0.12	0.12	0.13	0.12	0.16	0.16	0.08
<b>75</b>	0.45	0.43	0.48	0.52	0.55	0.57	0.53	0.70	0.71	0.42
<b>65</b>	0.60	0.57	0.63	0.68	0.71	0.73	0.65	0.83	0.83	0.54
<b>55</b>	0.98	0.90	0.95	0.98	0.99	0.98	0.85	1.03	0.97	0.59
<b>55</b>	1.20	1.05	1.06	1.06	1.03	1.00	0.84	0.97	0.85	0.48

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	1.17	0.98	0.96	0.92	0.88	0.82	0.68	0.76	0.63	0.34
<b>42.5</b>										
	1.61	1.28	1.20	1.10	1.01	0.91	0.75	0.83	0.67	0.35
<b>37.5</b>										
	1.90	1.45	1.30	1.14	1.01	0.89	0.71	0.80	0.65	0.33
<b>33</b>										
	2.14	1.57	1.35	1.15	0.98	0.85	0.68	0.76	0.63	0.31
<b>29</b>										
	2.29	1.64	1.37	1.13	0.94	0.80	0.63	0.71	0.58	0.28
<b>25.5</b>										
	2.30	1.63	1.35	1.08	0.87	0.72	0.56	0.63	0.52	0.24
<b>22.5</b>										
	2.59	1.83	1.51	1.18	0.93	0.76	0.58	0.65	0.53	0.25
<b>19.5</b>										
	2.35	1.64	1.35	1.05	0.82	0.65	0.49	0.55	0.45	0.21
<b>17</b>										
	1.98	1.37	1.12	0.88	0.68	0.54	0.40	0.45	0.36	0.17
<b>15</b>										
	2.06	1.42	1.15	0.91	0.70	0.55	0.41	0.45	0.37	0.17
<b>13</b>										
	2.13	1.45	1.19	0.94	0.72	0.57	0.42	0.46	0.37	0.17
<b>11</b>										
	2.22	1.51	1.23	0.97	0.75	0.58	0.43	0.47	0.37	0.17
<b>9</b>										
	2.33	1.58	1.28	1.00	0.77	0.60	0.44	0.47	0.37	0.17
<b>7</b>										
	2.41	1.64	1.32	1.03	0.79	0.61	0.45	0.48	0.37	0.17
<b>5</b>										
	2.46	1.67	1.35	1.06	0.80	0.62	0.46	0.49	0.38	0.18
<b>3</b>										
	2.50	1.68	1.36	1.07	0.80	0.62	0.46	0.49	0.38	0.18
<b>1</b>										
	1.25	0.84	0.68	0.54	0.40	0.31	0.23	0.25	0.19	0.09
<b>0</b>										
	1.25	0.84	0.68	0.54	0.40	0.31	0.23	0.25	0.19	0.09
<b>-1</b>										
	2.50	1.68	1.36	1.07	0.80	0.62	0.46	0.49	0.38	0.18
<b>-3</b>										
	2.46	1.67	1.35	1.06	0.80	0.62	0.46	0.49	0.38	0.18
<b>-5</b>										
	2.41	1.64	1.32	1.03	0.79	0.61	0.45	0.48	0.37	0.17
<b>-7</b>										
	2.33	1.58	1.28	1.00	0.77	0.60	0.44	0.47	0.37	0.17
<b>-9</b>										
	2.22	1.51	1.23	0.97	0.75	0.58	0.43	0.47	0.37	0.17
<b>-11</b>										
	2.13	1.45	1.18	0.94	0.72	0.57	0.42	0.46	0.37	0.17
<b>-13</b>										
	2.06	1.42	1.15	0.91	0.70	0.55	0.41	0.45	0.37	0.17
<b>-15</b>										
	1.98	1.37	1.12	0.88	0.68	0.54	0.40	0.45	0.36	0.17
<b>-17</b>										
	2.35	1.64	1.35	1.05	0.82	0.65	0.49	0.55	0.45	0.21
<b>-19.5</b>										
	2.59	1.83	1.51	1.18	0.93	0.76	0.58	0.65	0.53	0.25

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	2.30	1.63	1.35	1.08	0.87	0.72	0.56	0.63	0.52	0.24
<b>-25.5</b>	2.29	1.64	1.37	1.13	0.94	0.80	0.63	0.71	0.58	0.28
<b>-29</b>	2.14	1.57	1.35	1.15	0.98	0.85	0.68	0.76	0.63	0.31
<b>-33</b>	1.90	1.45	1.30	1.14	1.01	0.89	0.71	0.80	0.65	0.33
<b>-37.5</b>	1.61	1.28	1.20	1.10	1.01	0.91	0.75	0.83	0.67	0.35
<b>-42.5</b>	1.17	0.98	0.96	0.92	0.87	0.82	0.68	0.76	0.63	0.34
<b>-47.5</b>	1.20	1.05	1.06	1.05	1.03	1.00	0.84	0.97	0.85	0.48
<b>-55</b>	0.98	0.90	0.95	0.98	0.99	0.98	0.85	1.03	0.97	0.59
<b>-65</b>	0.60	0.57	0.63	0.68	0.71	0.72	0.65	0.83	0.83	0.54
<b>-75</b>	0.45	0.43	0.48	0.52	0.55	0.57	0.52	0.70	0.71	0.42
<b>-85</b>	0.10	0.10	0.11	0.12	0.12	0.13	0.12	0.16	0.16	0.08
<b>-90</b>										
<b>Total</b>	78.09	56.44	48.54	40.99	34.49	29.59	23.57	26.76	22.64	11.77

<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>				
	0.02	0.00		1.93
<b>85</b>				
	0.14	0.01		8.65
<b>75</b>				
	0.22	0.01		11.48
<b>65</b>				
	0.25	0.01		18.04
<b>55</b>				
	0.20	0.01		22.87
<b>47.5</b>				
	0.14	0.01		24.11
<b>42.5</b>				
	0.14	0.01		37.65
<b>37.5</b>				
	0.13	0.01		54.24
<b>33</b>				
	0.12	0.01		75.01
<b>29</b>				
	0.10	0.01		94.60
<b>25.5</b>				
	0.09	0.00		106.19
<b>22.5</b>				
	0.09	0.00		128.65
<b>19.5</b>				
	0.08	0.00		120.49
<b>17</b>				
	0.06	0.00		101.33

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

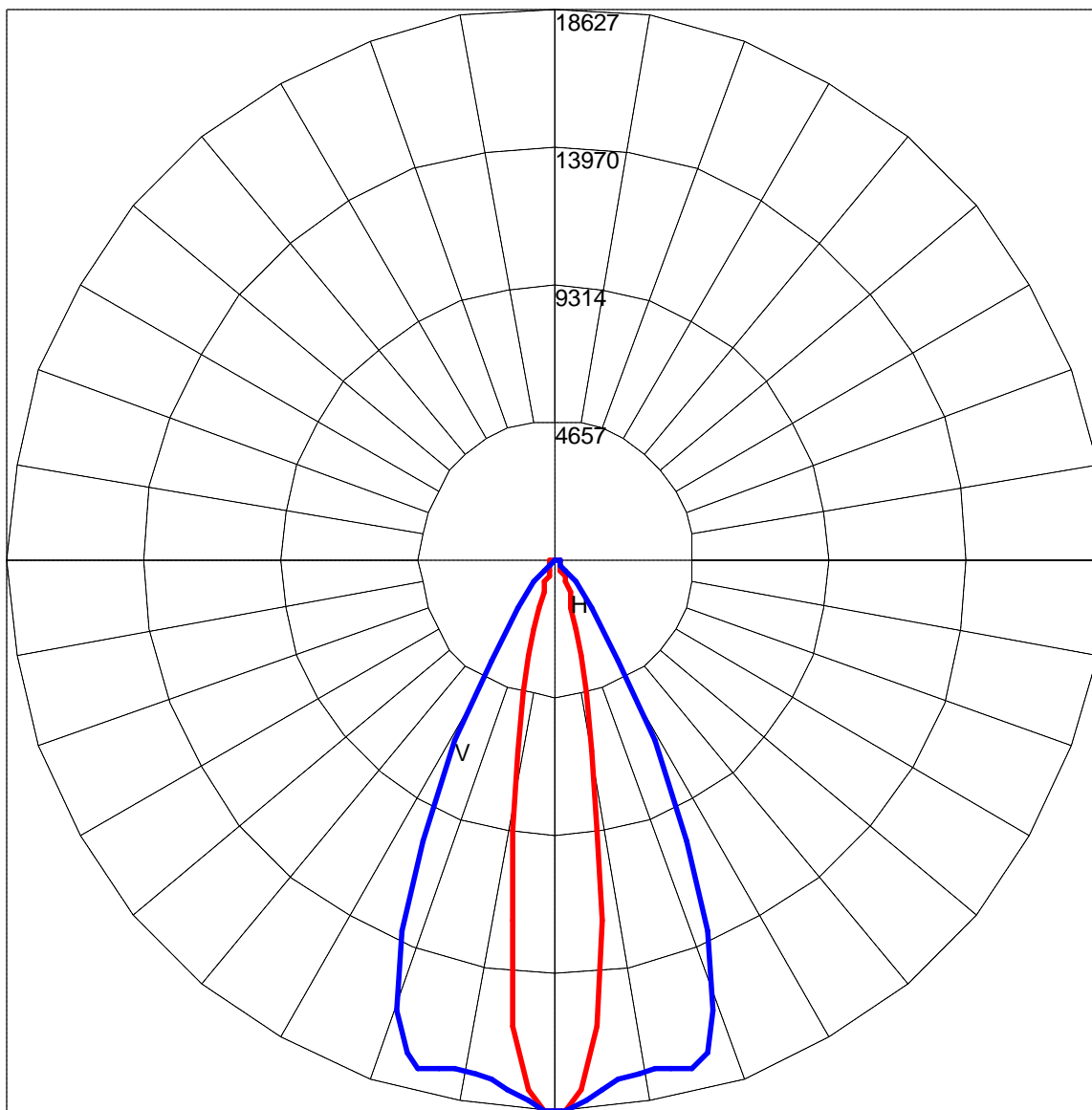
<b>15</b>	0.06	0.00	103.42
<b>13</b>	0.06	0.00	104.95
<b>11</b>	0.06	0.00	106.68
<b>9</b>	0.06	0.00	109.05
<b>7</b>	0.06	0.00	112.49
<b>5</b>	0.06	0.00	116.08
<b>3</b>	0.06	0.00	118.89
<b>1</b>	0.03	0.00	60.36
<b>0</b>	0.03	0.00	60.36
<b>-1</b>	0.06	0.00	118.89
<b>-3</b>	0.06	0.00	116.07
<b>-5</b>	0.06	0.00	112.48
<b>-7</b>	0.06	0.00	109.04
<b>-9</b>	0.06	0.00	106.67
<b>-11</b>	0.06	0.00	104.95
<b>-13</b>	0.06	0.00	103.42
<b>-15</b>	0.06	0.00	101.33
<b>-17</b>	0.08	0.00	120.48
<b>-19.5</b>	0.09	0.00	128.62
<b>-22.5</b>	0.09	0.00	106.14
<b>-25.5</b>	0.10	0.01	94.51
<b>-29</b>	0.12	0.01	74.89
<b>-33</b>	0.13	0.01	54.16
<b>-37.5</b>	0.14	0.01	37.64
<b>-42.5</b>	0.14	0.01	24.10
<b>-47.5</b>	0.20	0.01	22.86
<b>-55</b>	0.25	0.01	18.04
<b>-65</b>	0.22	0.01	11.47

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-VF-LED-49-HO-CW.IES**

**LUMENS TABULATION - (Cont.)**

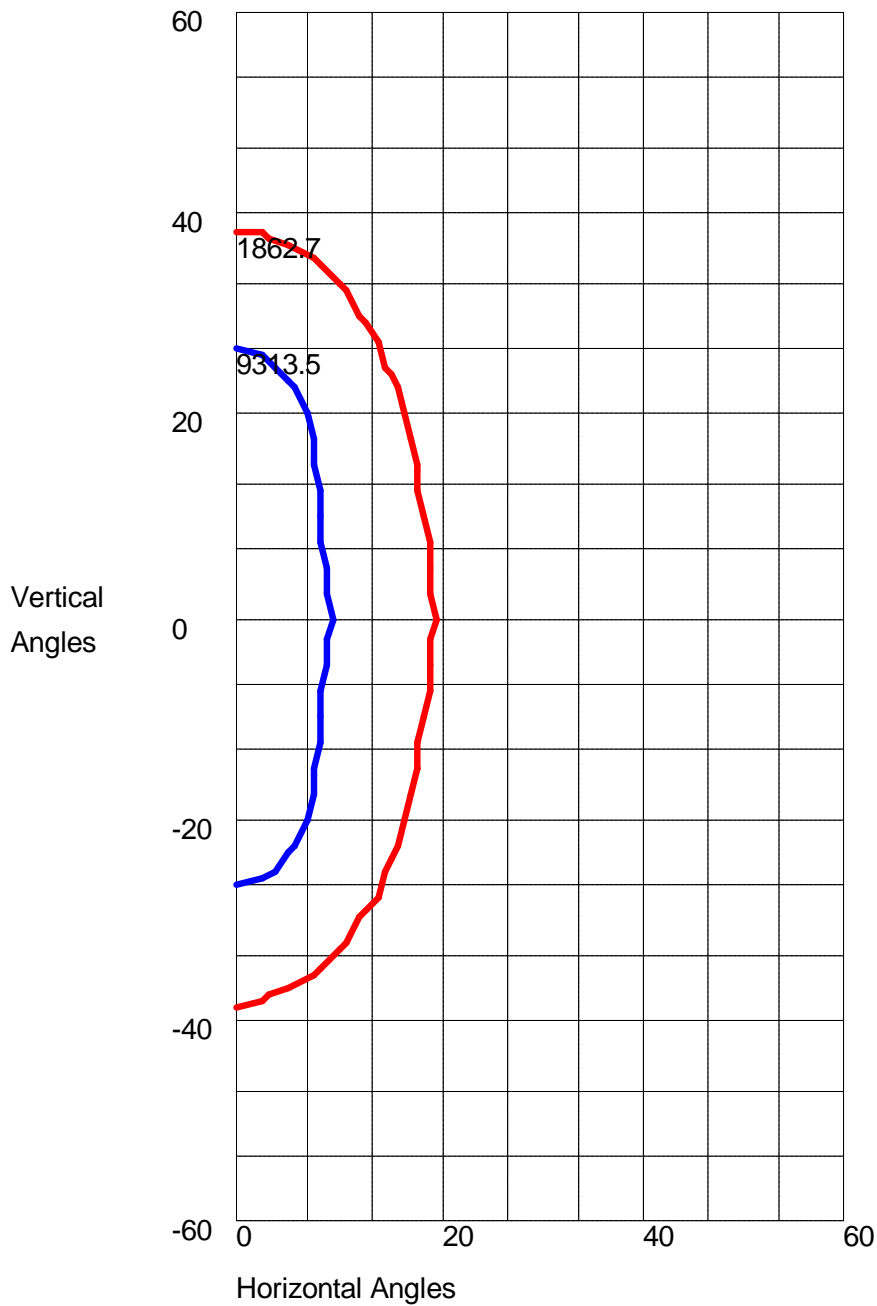
<b>-75</b>	0.14	0.01	8.65
<b>-85</b>	0.02	0.00	1.93
<b>-90</b>			
<b>Total</b>	4.51	0.24	3273.87

AXIAL CANDELA DISPLAY



Maximum Candela = 18627 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 18627 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 9313.5  
10% Maximum Candela = 1862.7