



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5271
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/11/14
[TEST DATE]03/11/14
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XFLM-VF-LED-49-HO-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]5174
[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	17306
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	16.3
Vertical Beam Angle (50%)	50.8
Horizontal Field Angle (10%)	38.1
Vertical Field Angle (10%)	74.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	2495
Beam Efficiency	N.A.
Field Lumens	4296
Field Efficiency	N.A.
Spill Lumens	901
Luminaire Lumens	5197
Total Efficiency	N.A.
Total Luminaire Watts	63.2
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	0	75	21
65	26	65	68
55	61	55	158
47.5	101	47.5	417
42.5	120	42.5	805
37.5	212	37.5	1659
33	281	33	3259
29	449	29	5808
25.5	665	25.5	8823
22.5	1039	22.5	11669
19.5	1615	19.5	14332
17	2280	17	15880
15	2982	15	16219
13	3923	13	16174
11	5368	11	15941
9	7420	9	15824
7	10303	7	15920
5	13765	5	16261
3	16393	3	16610
1	17306	1	16765
0	16903	0	16903
-1	17306	-1	16765
-3	16393	-3	16610
-5	13765	-5	16261
-7	10303	-7	15920
-9	7420	-9	15824
-11	5368	-11	15941
-13	3923	-13	16174
-15	2982	-15	16219
-17	2280	-17	15880
-19.5	1615	-19.5	14332
-22.5	1039	-22.5	11669
-25.5	665	-25.5	8823
-29	449	-29	5808
-33	281	-33	3259
-37.5	212	-37.5	1659
-42.5	120	-42.5	805
-47.5	101	-47.5	417
-55	61	-55	158
-65	26	-65	68
-75	0	-75	21
-85	0	-85	0
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 17306

Beam Edge = 8653 Cd (50% of Max.)

Field Edge = 1730.6 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>-90.0</u>	<u>-85.0</u>	<u>-75.0</u>	<u>-65.0</u>	<u>-55.0</u>	<u>-47.5</u>	<u>-42.5</u>	<u>-37.5</u>	<u>-33.0</u>	<u>-29.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	2	0	0	0	6	5	3	1	1
75.0	0	6	1	1	1	1	1	0	0	1
65.0	0	9	2	9	0	6	10	16	31	29
55.0	0	9	7	1	11	17	44	37	35	35
47.5	0	8	8	10	24	29	35	58	87	103
42.5	0	7	6	13	47	39	46	88	121	142
37.5	0	6	3	10	41	53	71	96	119	159
33.0	0	5	0	14	42	83	91	96	138	178
29.0	0	5	5	22	41	97	116	118	132	217
25.5	0	4	11	32	50	100	129	136	168	240
22.5	0	4	15	39	61	102	126	155	202	273
19.5	0	3	20	45	68	104	123	172	223	318
17.0	0	3	20	49	68	104	121	171	239	345
15.0	0	2	19	52	70	107	120	166	246	354
13.0	0	2	18	55	71	110	126	163	251	369
11.0	0	2	16	57	74	112	136	169	256	383
9.0	0	1	14	52	76	115	145	188	270	395
7.0	0	1	11	46	78	117	154	205	291	421
5.0	0	1	8	41	74	117	163	221	310	444
3.0	0	0	5	35	69	110	151	227	321	455
1.0	0	0	2	29	64	104	130	217	295	453
0.0	0	0	0	26	61	101	120	212	281	449
-1.0	0	0	2	29	64	104	130	217	295	453
-3.0	0	0	5	35	69	110	151	227	321	455
-5.0	0	1	8	41	74	117	163	221	310	444
-7.0	0	1	11	46	78	117	154	205	291	421
-9.0	0	1	14	52	76	115	145	188	270	395
-11.0	0	2	16	57	74	112	136	169	256	383
-13.0	0	2	18	55	71	110	126	163	251	369
-15.0	0	2	19	52	70	107	120	166	246	354
-17.0	0	3	20	49	68	104	121	171	239	345
-19.5	0	3	20	45	68	104	123	172	223	318
-22.5	0	4	15	39	61	102	126	155	202	273
-25.5	0	4	11	32	50	100	129	136	168	240
-29.0	0	5	5	22	41	97	116	118	132	217
-33.0	0	5	0	14	42	83	91	96	138	178
-37.5	0	6	3	10	41	53	71	96	119	159
-42.5	0	7	6	13	47	39	46	88	121	142
-47.5	0	8	8	10	24	29	35	58	87	103
-55.0	0	9	7	1	11	17	44	37	35	35
-65.0	0	9	2	9	0	6	10	16	31	29
-75.0	0	6	1	1	1	1	1	0	0	1
-85.0	0	2	0	0	0	6	5	3	1	1
-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	0	0	0	0	0	0	0	0	0	0
75.0	2	3	4	5	5	5	5	4	3	2
65.0	27	31	35	36	36	38	44	51	57	64
55.0	55	72	85	93	100	108	117	126	135	143
47.5	119	147	177	196	210	226	245	281	318	355
42.5	168	200	246	290	334	382	431	498	574	650
37.5	208	270	363	459	552	670	795	931	1112	1301
33.0	257	348	482	645	789	976	1225	1506	1888 *	2339 *
29.0	298	439	627	854	1078	1355	1792 *	2305 *	2957 *	3972 *
25.5	357	510	776	1050	1388	1785 *	2297 *	3224 *	4285 *	5840 *
22.5	419	611	930	1279	1653	2187 *	2902 *	4048 *	5700 *	7692 *
19.5	475	714	1057	1488	1960 *	2534 *	3499 *	4673 *	6905 *	9396 *
17.0	510	734	1153	1631	2141 *	2814 *	3773 *	5298 *	7476 *	10425 *
15.0	539	790	1210	1699	2209 *	2939 *	3895 *	5495 *	7614 *	10721 *
13.0	544	813	1240	1729	2280 *	2996 *	4085 *	5513 *	7935 *	10811 *
11.0	569	841	1303	1800 *	2308 *	3120 *	4214 *	5857 *	8069 *	11027 *
9.0	599	906	1373	1882 *	2449 *	3194 *	4418 *	6087 *	8525 *	11318 *
7.0	623	958	1461	1999 *	2560 *	3427 *	4658 *	6385 *	8777 *	11792 *
5.0	650	999	1527	2125 *	2743 *	3652 *	5027 *	6816 *	9183 *	12365 *
3.0	680	1028	1586	2211 *	2876 *	3784 *	5155 *	7152 *	9921 *	13045 *
1.0	677	1040	1612	2263 *	2950 *	3888 *	5302 *	7588 *	10485 *	13845 *
0.0	665	1039	1615	2280 *	2982 *	3923 *	5368 *	7420 *	10303 *	13765 *
-1.0	677	1040	1612	2263 *	2950 *	3888 *	5302 *	7588 *	10485 *	13845 *
-3.0	680	1028	1586	2211 *	2876 *	3784 *	5155 *	7152 *	9921 *	13045 *
-5.0	650	999	1527	2125 *	2743 *	3652 *	5027 *	6816 *	9183 *	12365 *
-7.0	623	958	1461	1999 *	2560 *	3427 *	4658 *	6385 *	8777 *	11792 *
-9.0	599	906	1373	1882 *	2449 *	3194 *	4418 *	6087 *	8525 *	11318 *
-11.0	569	841	1303	1800 *	2308 *	3120 *	4214 *	5857 *	8069 *	11027 *
-13.0	544	813	1240	1729	2280 *	2996 *	4085 *	5513 *	7935 *	10811 *
-15.0	539	790	1210	1699	2209 *	2939 *	3895 *	5495 *	7614 *	10721 *
-17.0	510	734	1153	1631	2141 *	2814 *	3773 *	5298 *	7476 *	10425 *
-19.5	475	714	1057	1488	1960 *	2534 *	3499 *	4673 *	6905 *	9396 *
-22.5	419	611	930	1279	1653	2187 *	2902 *	4048 *	5700 *	7692 *
-25.5	357	510	776	1050	1388	1785 *	2297 *	3224 *	4285 *	5840 *
-29.0	298	439	627	854	1078	1355	1792 *	2305 *	2957 *	3972 *
-33.0	257	348	482	645	789	976	1225	1506	1888 *	2339 *
-37.5	208	270	363	459	552	670	795	931	1112	1301
-42.5	168	200	246	290	334	382	431	498	574	650
-47.5	119	147	177	196	210	226	245	281	318	355
-55.0	55	72	85	93	100	108	117	126	135	143
-65.0	27	31	35	36	36	38	44	51	57	64
-75.0	2	3	4	5	5	5	5	4	3	2
-85.0	0	0	0	0	0	0	0	0	0	0
-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	0	0	0	0	0	0	0	0	0	0
75.0	9	17	21	17	9	2	3	4	5	5
65.0	67	68	68	68	67	64	57	51	44	38

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CANDELA TABULATION - (Cont.)

55.0	151	156	158	156	151	143	135	126	117	108
47.5	390	408	417	408	390	355	318	281	245	226
42.5	728	779	805	779	728	650	574	498	431	382
37.5	1488	1608	1659	1608	1488	1301	1112	931	795	670
33.0	2795 *	3120 *	3259 *	3120 *	2795 *	2339 *	1888 *	1506	1225	976
29.0	5011 *	5627 *	5808 *	5627 *	5011 *	3972 *	2957 *	2305 *	1792 *	1355
25.5	7547 *	8577 *	8823 *	8577 *	7547 *	5840 *	4285 *	3224 *	2297 *	1785 *
22.5	9888 *	11366 *	11669 *	11366 *	9888 *	7692 *	5700 *	4048 *	2902 *	2187 *
19.5	12003 *	13955 *	14332 *	13955 *	12003 *	9396 *	6905 *	4673 *	3499 *	2534 *
17.0	13191 *	15443 *	15880 *	15443 *	13191 *	10425 *	7476 *	5298 *	3773 *	2814 *
15.0	13551 *	15767 *	16219 *	15767 *	13551 *	10721 *	7614 *	5495 *	3895 *	2939 *
13.0	13702 *	15763 *	16174 *	15763 *	13702 *	10811 *	7935 *	5513 *	4085 *	2996 *
11.0	13801 *	15615 *	15941 *	15615 *	13801 *	11027 *	8069 *	5857 *	4214 *	3120 *
9.0	13852 *	15501 *	15824 *	15501 *	13852 *	11318 *	8525 *	6087 *	4418 *	3194 *
7.0	14168 *	15646 *	15920 *	15646 *	14168 *	11792 *	8777 *	6385 *	4658 *	3427 *
5.0	14813 *	16110 *	16261 *	16110 *	14813 *	12365 *	9183 *	6816 *	5027 *	3652 *
3.0	15523 *	16526 *	16610 *	16526 *	15523 *	13045 *	9921 *	7152 *	5155 *	3784 *
1.0	16188 *	17024 *	16765 *	17024 *	16188 *	13845 *	10485 *	7588 *	5302 *	3888 *
0.0	16393 *	17306 *	16903 *	17306 *	16393 *	13765 *	10303 *	7420 *	5368 *	3923 *
-1.0	16188 *	17024 *	16765 *	17024 *	16188 *	13845 *	10485 *	7588 *	5302 *	3888 *
-3.0	15523 *	16526 *	16610 *	16526 *	15523 *	13045 *	9921 *	7152 *	5155 *	3784 *
-5.0	14813 *	16110 *	16261 *	16110 *	14813 *	12365 *	9183 *	6816 *	5027 *	3652 *
-7.0	14168 *	15646 *	15920 *	15646 *	14168 *	11792 *	8777 *	6385 *	4658 *	3427 *
-9.0	13852 *	15501 *	15824 *	15501 *	13852 *	11318 *	8525 *	6087 *	4418 *	3194 *
-11.0	13801 *	15615 *	15941 *	15615 *	13801 *	11027 *	8069 *	5857 *	4214 *	3120 *
-13.0	13702 *	15763 *	16174 *	15763 *	13702 *	10811 *	7935 *	5513 *	4085 *	2996 *
-15.0	13551 *	15767 *	16219 *	15767 *	13551 *	10721 *	7614 *	5495 *	3895 *	2939 *
-17.0	13191 *	15443 *	15880 *	15443 *	13191 *	10425 *	7476 *	5298 *	3773 *	2814 *
-19.5	12003 *	13955 *	14332 *	13955 *	12003 *	9396 *	6905 *	4673 *	3499 *	2534 *
-22.5	9888 *	11366 *	11669 *	11366 *	9888 *	7692 *	5700 *	4048 *	2902 *	2187 *
-25.5	7547 *	8577 *	8823 *	8577 *	7547 *	5840 *	4285 *	3224 *	2297 *	1785 *
-29.0	5011 *	5627 *	5808 *	5627 *	5011 *	3972 *	2957 *	2305 *	1792 *	1355
-33.0	2795 *	3120 *	3259 *	3120 *	2795 *	2339 *	1888 *	1506	1225	976
-37.5	1488	1608	1659	1608	1488	1301	1112	931	795	670
-42.5	728	779	805	779	728	650	574	498	431	382
-47.5	390	408	417	408	390	355	318	281	245	226
-55.0	151	156	158	156	151	143	135	126	117	108
-65.0	67	68	68	68	67	64	57	51	44	38
-75.0	9	17	21	17	9	2	3	4	5	5
-85.0	0	0	0	0	0	0	0	0	0	0
-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	0	0	0	0	0	1	1	3	5	6
75.0	5	5	4	3	2	1	0	0	1	1
65.0	36	36	35	31	27	29	31	16	10	6
55.0	100	93	85	72	55	35	35	37	44	17
47.5	210	196	177	147	119	103	87	58	35	29
42.5	334	290	246	200	168	142	121	88	46	39
37.5	552	459	363	270	208	159	119	96	71	53
33.0	789	645	482	348	257	178	138	96	91	83
29.0	1078	854	627	439	298	217	132	118	116	97
25.5	1388	1050	776	510	357	240	168	136	129	100

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CANDELA TABULATION - (Cont.)

22.5	1653	1279	930	611	419	273	202	155	126	102
19.5	1960 *	1488	1057	714	475	318	223	172	123	104
17.0	2141 *	1631	1153	734	510	345	239	171	121	104
15.0	2209 *	1699	1210	790	539	354	246	166	120	107
13.0	2280 *	1729	1240	813	544	369	251	163	126	110
11.0	2308 *	1800 *	1303	841	569	383	256	169	136	112
9.0	2449 *	1882 *	1373	906	599	395	270	188	145	115
7.0	2560 *	1999 *	1461	958	623	421	291	205	154	117
5.0	2743 *	2125 *	1527	999	650	444	310	221	163	117
3.0	2876 *	2211 *	1586	1028	680	455	321	227	151	110
1.0	2950 *	2263 *	1612	1040	677	453	295	217	130	104
0.0	2982 *	2280 *	1615	1039	665	449	281	212	120	101
-1.0	2950 *	2263 *	1612	1040	677	453	295	217	130	104
-3.0	2876 *	2211 *	1586	1028	680	455	321	227	151	110
-5.0	2743 *	2125 *	1527	999	650	444	310	221	163	117
-7.0	2560 *	1999 *	1461	958	623	421	291	205	154	117
-9.0	2449 *	1882 *	1373	906	599	395	270	188	145	115
-11.0	2308 *	1800 *	1303	841	569	383	256	169	136	112
-13.0	2280 *	1729	1240	813	544	369	251	163	126	110
-15.0	2209 *	1699	1210	790	539	354	246	166	120	107
-17.0	2141 *	1631	1153	734	510	345	239	171	121	104
-19.5	1960 *	1488	1057	714	475	318	223	172	123	104
-22.5	1653	1279	930	611	419	273	202	155	126	102
-25.5	1388	1050	776	510	357	240	168	136	129	100
-29.0	1078	854	627	439	298	217	132	118	116	97
-33.0	789	645	482	348	257	178	138	96	91	83
-37.5	552	459	363	270	208	159	119	96	71	53
-42.5	334	290	246	200	168	142	121	88	46	39
-47.5	210	196	177	147	119	103	87	58	35	29
-55.0	100	93	85	72	55	35	35	37	44	17
-65.0	36	36	35	31	27	29	31	16	10	6
-75.0	5	5	4	3	2	1	0	0	1	1
-85.0	0	0	0	0	0	1	1	3	5	6
-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	0	0	0	2	0
75.0	1	1	1	6	0
65.0	0	9	2	9	0
55.0	11	1	7	9	0
47.5	24	10	8	8	0
42.5	47	13	6	7	0
37.5	41	10	3	6	0
33.0	42	14	0	5	0
29.0	41	22	5	5	0
25.5	50	32	11	4	0
22.5	61	39	15	4	0
19.5	68	45	20	3	0
17.0	68	49	20	3	0
15.0	70	52	19	2	0
13.0	71	55	18	2	0
11.0	74	57	16	2	0
9.0	76	52	14	1	0

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CANDELA TABULATION - (Cont.)

7.0	78	46	11	1	0
5.0	74	41	8	1	0
3.0	69	35	5	0	0
1.0	64	29	2	0	0
0.0	61	26	0	0	0
-1.0	64	29	2	0	0
-3.0	69	35	5	0	0
-5.0	74	41	8	1	0
-7.0	78	46	11	1	0
-9.0	76	52	14	1	0
-11.0	74	57	16	2	0
-13.0	71	55	18	2	0
-15.0	70	52	19	2	0
-17.0	68	49	20	3	0
-19.5	68	45	20	3	0
-22.5	61	39	15	4	0
-25.5	50	32	11	4	0
-29.0	41	22	5	5	0
-33.0	42	14	0	5	0
-37.5	41	10	3	6	0
-42.5	47	13	6	7	0
-47.5	24	10	8	8	0
-55.0	11	1	7	9	0
-65.0	0	9	2	9	0
-75.0	1	1	1	6	0
-85.0	0	0	0	2	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2598.32

Total Field Lumens (one side of beam only) = 2148.02

* 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	0.03	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02
65	0.13	0.25	0.22	0.19	0.17	0.16	0.14	0.12	0.12	0.14
55	0.34	0.67	0.65	0.60	0.56	0.51	0.46	0.42	0.39	0.45
47.5	0.65	1.26	1.18	1.08	0.97	0.87	0.78	0.71	0.66	0.75
42.5	0.92	1.75	1.61	1.44	1.26	1.09	0.96	0.85	0.75	0.82
37.5	1.85	3.50	3.17	2.75	2.35	1.99	1.70	1.43	1.20	1.23
33	3.31 *	6.17 *	5.42 *	4.53	3.69	3.01	2.46	1.99	1.61	1.59
29	5.43 *	10.08 *	8.58 *	6.76 *	5.22 *	4.10	3.19	2.48	1.97	1.89
25.5	7.69 *	14.26 *	11.90 *	9.04 *	6.74 *	5.05 *	3.77 *	2.90	2.24	2.09
22.5	9.24 *	17.07 *	14.11 *	10.69 *	7.81 *	5.61 *	4.10 *	3.11 *	2.36	2.19
19.5	11.72 *	21.56 *	17.77 *	13.49 *	9.65 *	6.80 *	4.97 *	3.69 *	2.80	2.58
17	11.35 *	20.77 *	17.10 *	12.95 *	9.18 *	6.47 *	4.70 *	3.49 *	2.64 *	2.41
15	9.64 *	17.64 *	14.55 *	10.98 *	7.81 *	5.54 *	4.00 *	2.99 *	2.25 *	2.06
13	9.74 *	17.89 *	14.82 *	11.23 *	8.01 *	5.70 *	4.15 *	3.08 *	2.32 *	2.13
11	9.67 *	17.92 *	14.99 *	11.46 *	8.26 *	5.90 *	4.29 *	3.16 *	2.38 *	2.20
9	9.58 *	17.89 *	15.19 *	11.80 *	8.61 *	6.17 *	4.45 *	3.27 *	2.47 *	2.30
7	9.58 *	18.01 *	15.54 *	12.24 *	8.98 *	6.46 *	4.68 *	3.44 *	2.60 *	2.43
5	9.74 *	18.49 *	16.15 *	12.76 *	9.40 *	6.87 *	4.99 *	3.66 *	2.76 *	2.57 *
3	9.98 *	19.17 *	16.94 *	13.48 *	9.98 *	7.24 *	5.25 *	3.86 *	2.91 *	2.69 *
1	10.19 *	19.87 *	17.81 *	14.33 *	10.60 *	7.56 *	5.40 *	3.99 *	3.02 *	2.77 *
0	5.18 *	10.18 *	9.14 *	7.33 *	5.40 *	3.85 *	2.75 *	2.03 *	1.53 *	1.40 *
-1	5.18 *	10.18 *	9.14 *	7.33 *	5.40 *	3.85 *	2.75 *	2.03 *	1.53 *	1.40 *
	10.19 *	19.87 *	17.81 *	14.33 *	10.60 *	7.56 *	5.40 *	3.99 *	3.02 *	2.77 *

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

LUMENS TABULATION - (Cont.)

-3	9.98 *	19.17 *	16.94 *	13.48 *	9.98 *	7.24 *	5.25 *	3.86 *	2.91 *	2.69 *
-5	9.74 *	18.49 *	16.15 *	12.76 *	9.40 *	6.87 *	4.99 *	3.66 *	2.76 *	2.57 *
-7	9.58 *	18.01 *	15.54 *	12.24 *	8.98 *	6.46 *	4.68 *	3.44 *	2.60 *	2.43
-9	9.58 *	17.89 *	15.19 *	11.80 *	8.61 *	6.17 *	4.45 *	3.27 *	2.47 *	2.30
-11	9.67 *	17.92 *	14.99 *	11.46 *	8.26 *	5.90 *	4.29 *	3.16 *	2.38 *	2.20
-13	9.74 *	17.89 *	14.82 *	11.23 *	8.01 *	5.70 *	4.15 *	3.08 *	2.32 *	2.13
-15	9.64 *	17.64 *	14.55 *	10.98 *	7.81 *	5.54 *	4.00 *	2.99 *	2.25 *	2.06
-17	11.35 *	20.77 *	17.10 *	12.95 *	9.18 *	6.47 *	4.70 *	3.49 *	2.64 *	2.41
-19.5	11.72 *	21.56 *	17.77 *	13.49 *	9.65 *	6.80 *	4.97 *	3.69 *	2.80	2.58
-22.5	9.24 *	17.07 *	14.11 *	10.69 *	7.81 *	5.61 *	4.10 *	3.11 *	2.36	2.19
-25.5	7.69 *	14.26 *	11.90 *	9.04 *	6.74 *	5.05 *	3.77 *	2.90	2.24	2.09
-29	5.43 *	10.08 *	8.58 *	6.76 *	5.22 *	4.10	3.19	2.48	1.97	1.89
-33	3.31 *	6.17 *	5.42 *	4.53	3.69	3.01	2.46	1.99	1.61	1.59
-37.5	1.85	3.50	3.17	2.75	2.35	1.99	1.70	1.43	1.20	1.23
-42.5	0.92	1.75	1.61	1.44	1.26	1.09	0.96	0.85	0.75	0.82
-47.5	0.65	1.26	1.18	1.08	0.97	0.87	0.78	0.71	0.66	0.75
-55	0.34	0.67	0.65	0.60	0.56	0.51	0.46	0.42	0.39	0.45
-65	0.13	0.25	0.22	0.19	0.17	0.16	0.14	0.12	0.12	0.14
-75	0.03	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	271.87	508.91	433.69	338.29	249.31	181.90	134.38	101.39	77.99	73.40

Vert. Angles	Horizontal Angles									
	<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>
90	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
85	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.01	0.01
75	0.16	0.13	0.14	0.16	0.13	0.08	0.05	0.03	0.04	0.03
65	0.48	0.39	0.35	0.34	0.33	0.31	0.21	0.12	0.08	0.05
55	0.77	0.62	0.55	0.51	0.46	0.38	0.25	0.22	0.13	0.05

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

LUMENS TABULATION - (Cont.)

47.5										
	0.82	0.66	0.63	0.59	0.50	0.33	0.20	0.25	0.18	0.05
42.5	1.15	0.88	0.80	0.71	0.59	0.44	0.28	0.32	0.21	0.04
37.5	1.40	1.02	0.86	0.70	0.57	0.46	0.36	0.35	0.18	0.03
33	1.62	1.12	0.90	0.69	0.54	0.49	0.42	0.38	0.18	0.04
29	1.76	1.17	0.92	0.69	0.54	0.51	0.42	0.36	0.19	0.06
25.5	1.81	1.19	0.92	0.69	0.55	0.48	0.37	0.34	0.21	0.08
22.5	2.12	1.39	1.06	0.80	0.63	0.50	0.37	0.36	0.24	0.09
19.5	1.95	1.27	0.98	0.73	0.56	0.43	0.30	0.31	0.22	0.09
17	1.66	1.07	0.83	0.62	0.46	0.34	0.24	0.25	0.18	0.07
15	1.73	1.12	0.86	0.64	0.46	0.34	0.25	0.26	0.19	0.07
13	1.79	1.15	0.88	0.66	0.47	0.35	0.26	0.26	0.20	0.08
11	1.89	1.22	0.92	0.68	0.49	0.37	0.27	0.27	0.20	0.07
9	2.00	1.29	0.97	0.72	0.53	0.40	0.29	0.28	0.19	0.06
7	2.11	1.35	1.01	0.77	0.57	0.43	0.30	0.28	0.18	0.06
5	2.19	1.40	1.06	0.80	0.60	0.44	0.29	0.26	0.17	0.05
3	2.25	1.43	1.07	0.80	0.59	0.42	0.27	0.25	0.15	0.04
1	1.13	0.71	0.53	0.39	0.28	0.20	0.12	0.12	0.07	0.01
0	1.13	0.71	0.53	0.39	0.28	0.20	0.12	0.12	0.07	0.01
-1	2.25	1.43	1.07	0.80	0.59	0.42	0.27	0.25	0.15	0.04
-3	2.19	1.40	1.06	0.80	0.60	0.44	0.29	0.26	0.17	0.05
-5	2.11	1.35	1.01	0.77	0.57	0.43	0.30	0.28	0.18	0.06
-7	2.00	1.29	0.97	0.72	0.53	0.40	0.29	0.28	0.19	0.06
-9	1.89	1.22	0.92	0.68	0.49	0.37	0.27	0.27	0.20	0.07
-11	1.79	1.15	0.88	0.66	0.47	0.35	0.26	0.26	0.20	0.08
-13	1.73	1.12	0.86	0.64	0.46	0.34	0.25	0.26	0.19	0.07
-15	1.66	1.07	0.83	0.62	0.46	0.34	0.24	0.25	0.18	0.07
-17	1.95	1.27	0.98	0.73	0.56	0.43	0.30	0.31	0.22	0.09
-19.5	2.12	1.39	1.06	0.80	0.63	0.50	0.37	0.36	0.24	0.09

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

LUMENS TABULATION - (Cont.)

-22.5	1.81	1.19	0.92	0.69	0.55	0.48	0.37	0.34	0.21	0.08
-25.5	1.76	1.17	0.92	0.69	0.54	0.51	0.42	0.36	0.19	0.06
-29	1.62	1.12	0.90	0.69	0.54	0.49	0.42	0.38	0.18	0.04
-33	1.40	1.02	0.86	0.70	0.57	0.46	0.36	0.35	0.18	0.03
-37.5	1.15	0.88	0.80	0.71	0.59	0.44	0.28	0.32	0.21	0.04
-42.5	0.82	0.66	0.63	0.59	0.50	0.33	0.20	0.25	0.18	0.05
-47.5	0.77	0.62	0.55	0.51	0.46	0.38	0.25	0.22	0.13	0.05
-55	0.48	0.39	0.35	0.34	0.33	0.31	0.21	0.12	0.08	0.05
-65	0.16	0.13	0.14	0.16	0.13	0.08	0.05	0.03	0.04	0.03
-75	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.01	0.01
-85	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
Total	61.58	41.18	32.48	25.36	19.79	15.49	11.13	10.57	6.80	2.27

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.00	0.00	0.05	
85				
	0.01	0.00	0.35	
75				
	0.02	0.00	2.61	
65				
	0.04	0.00	7.73	
55				
	0.03	0.00	12.88	
47.5				
	0.02	0.00	15.68	
42.5				
	0.01	0.00	26.61	
37.5				
	0.01	0.00	39.70	
33				
	0.01	0.00	56.08	
29				
	0.01	0.00	72.31	
25.5				
	0.01	0.00	82.92	
22.5				
	0.02	0.00	102.61	
19.5				
	0.02	0.00	97.91	
17				
	0.01	0.00	83.18	

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

LUMENS TABULATION - (Cont.)

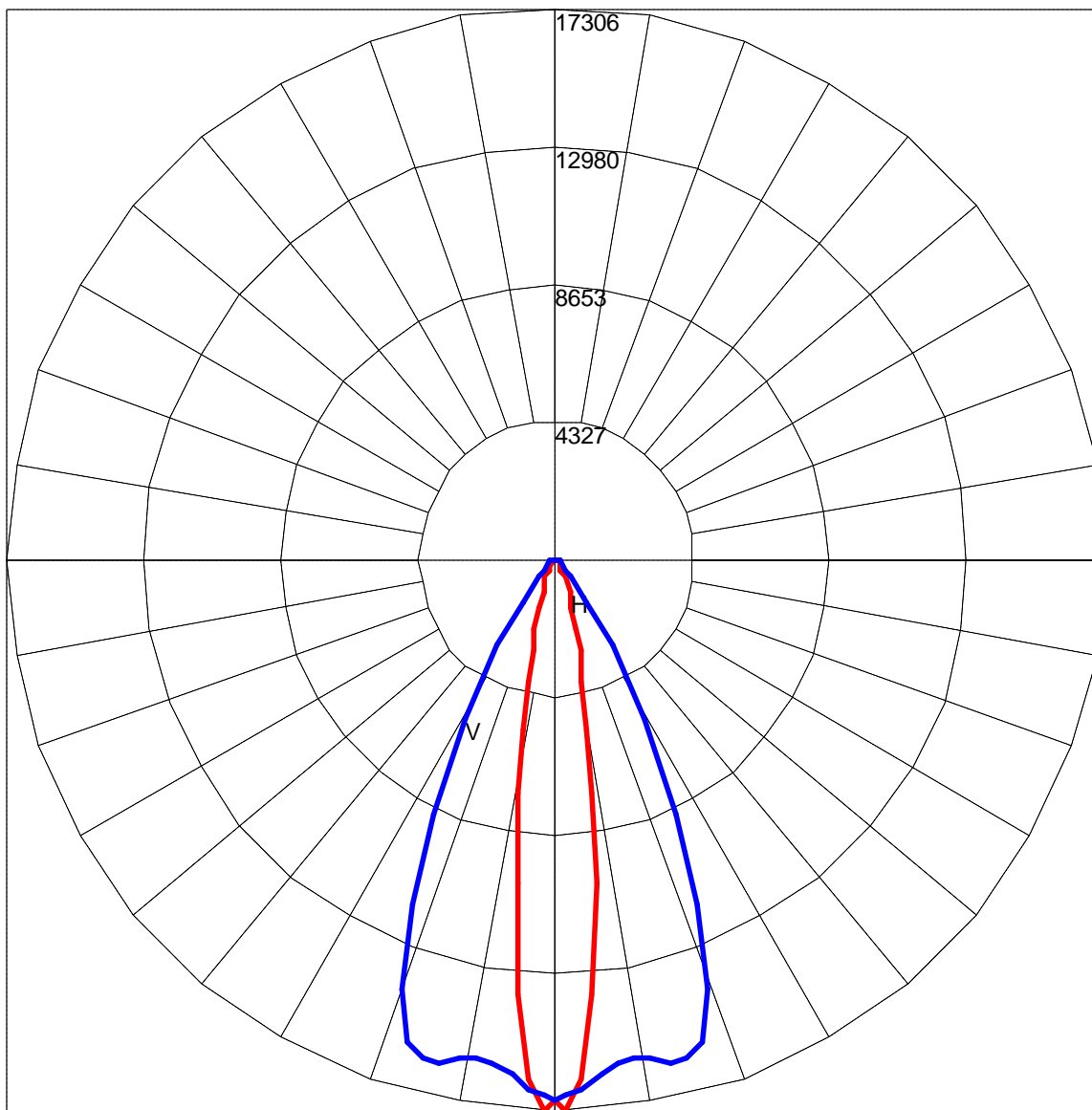
15			
	0.01	0.00	84.98
13			
	0.01	0.00	86.35
11			
	0.01	0.00	88.12
9			
	0.01	0.00	90.70
7			
	0.01	0.00	94.44
5			
	0.00	0.00	98.78
3			
	0.00	0.00	102.80
1			
	0.00	0.00	52.38
0			
	0.00	0.00	52.38
-1			
	0.00	0.00	102.80
-3			
	0.00	0.00	98.78
-5			
	0.01	0.00	94.44
-7			
	0.01	0.00	90.70
-9			
	0.01	0.00	88.12
-11			
	0.01	0.00	86.35
-13			
	0.01	0.00	84.98
-15			
	0.01	0.00	83.18
-17			
	0.02	0.00	97.91
-19.5			
	0.02	0.00	102.61
-22.5			
	0.01	0.00	82.92
-25.5			
	0.01	0.00	72.31
-29			
	0.01	0.00	56.08
-33			
	0.01	0.00	39.70
-37.5			
	0.01	0.00	26.61
-42.5			
	0.02	0.00	15.68
-47.5			
	0.03	0.00	12.88
-55			
	0.04	0.00	7.73
-65			
	0.02	0.00	2.61

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

LUMENS TABULATION - (Cont.)

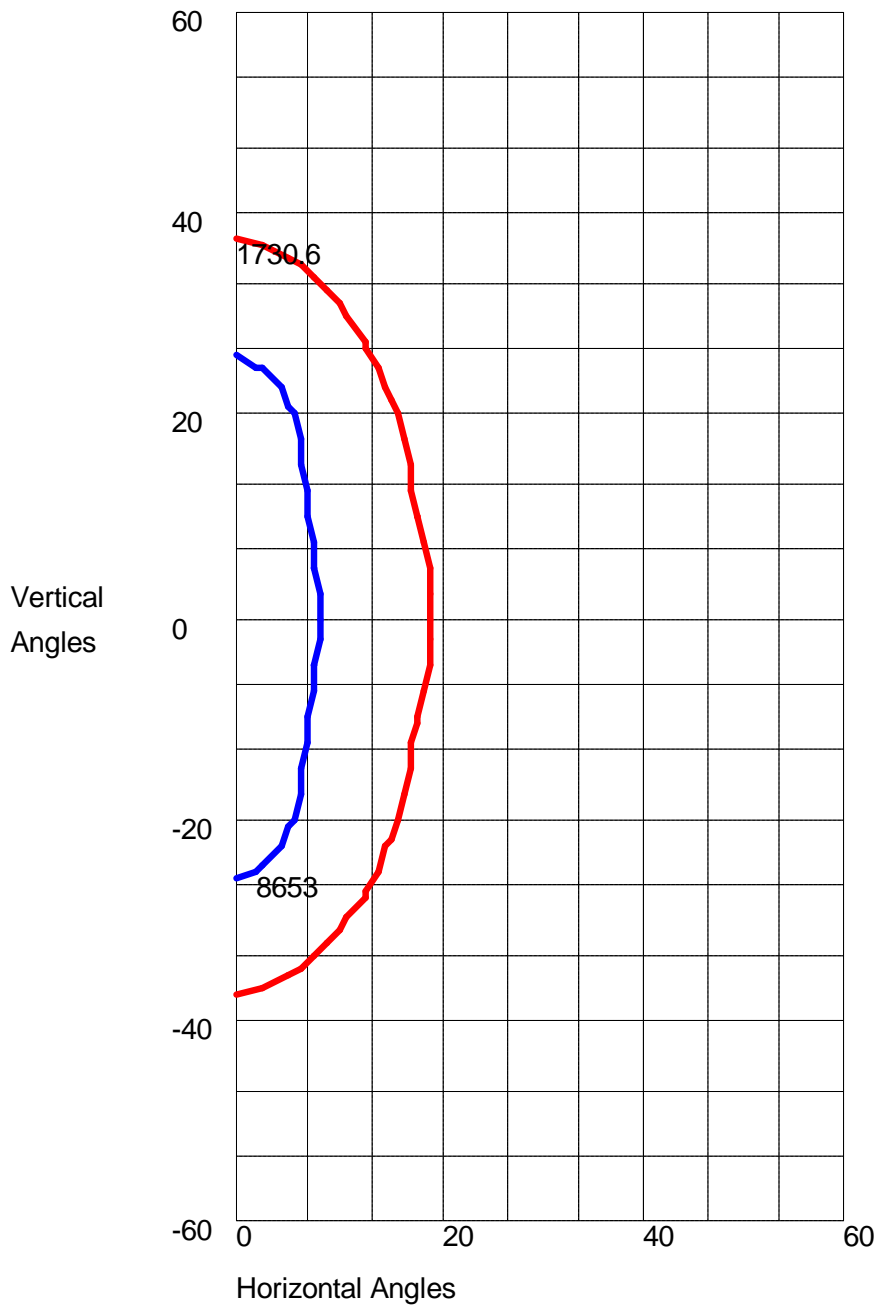
-75	0.01	0.00	0.35
-85	0.00	0.00	0.05
-90			
Total	0.54	0.03	2598.32

AXIAL CANDELA DISPLAY



Maximum Candela = 17306 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 17306 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 8653
10% Maximum Candela = 1730.6