



IES FLOOD REPORT

PHOTOMETRIC FILENAME : XFLM-NF-LED-49-HO-WW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5295
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/15/14
[TEST DATE]03/15/14
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XFLM-NF-LED-49-HO-WW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]4130
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

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

CHARACTERISTICS

NEMA Type	3 H x 3 V
Maximum Candela	19038
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	22.5
Vertical Beam Angle (50%)	22.5
Horizontal Field Angle (10%)	44.7
Vertical Field Angle (10%)	45.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1619
Beam Efficiency	N.A.
Field Lumens	3202
Field Efficiency	N.A.
Spill Lumens	943
Luminaire Lumens	4145
Total Efficiency	N.A.
Total Luminaire Watts	63.3
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	9	85	7
75	5	75	0
65	45	65	40
55	120	55	99
47.5	151	47.5	148
42.5	195	42.5	205
37.5	327	37.5	332
33	480	33	518
29	755	29	810
25.5	1137	25.5	1254
22.5	1841	22.5	1932
19.5	2921	19.5	3009
17	4257	17	4321
15	5707	15	5721
13	7571	13	7516
11	9809	11	9663
9	12287	9	12037
7	14779	7	14395
5	16963	5	16457
3	18459	3	17878
1	19038	1	18370
0	18573	0	18573
-1	19038	-1	18370
-3	18459	-3	17878
-5	16963	-5	16457
-7	14779	-7	14395
-9	12287	-9	12037
-11	9809	-11	9663
-13	7571	-13	7516
-15	5707	-15	5721
-17	4257	-17	4321
-19.5	2921	-19.5	3009
-22.5	1841	-22.5	1932
-25.5	1137	-25.5	1254
-29	755	-29	810
-33	480	-33	518
-37.5	327	-37.5	332
-42.5	195	-42.5	205
-47.5	151	-47.5	148
-55	120	-55	99
-65	45	-65	40
-75	5	-75	0
-85	9	-85	7
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 19038

Beam Edge = 9519 Cd (50% of Max.)

Field Edge = 1903.8 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	0	0	4	0	0	1	2	5	8
75.0	0	0	10	1	0	1	2	1	2	10
65.0	0	0	15	12	4	1	2	11	21	31
55.0	0	0	15	14	4	14	33	38	61	76
47.5	0	1	17	25	18	34	63	67	101	110
42.5	0	1	12	31	44	61	75	96	102	118
37.5	0	2	8	32	43	72	92	106	127	148
33.0	0	3	5	29	56	97	104	126	154	174
29.0	0	3	5	23	71	108	119	148	193	246
25.5	0	4	4	18	80	108	130	167	229	307
22.5	0	5	2	18	87	115	141	180	266	354
19.5	0	5	0	17	83	124	152	207	301	408
17.0	0	6	1	15	83	131	159	233	334	467
15.0	0	6	2	12	81	126	167	251	367	511
13.0	0	7	3	8	79	121	171	268	397	571
11.0	0	7	3	4	77	115	171	280	430	620
9.0	0	8	3	11	73	108	171	282	449	657
7.0	0	8	4	19	70	101	171	279	452	683
5.0	0	8	4	26	85	99	170	273	452	704
3.0	0	9	4	34	100	121	181	281	450	715
1.0	0	9	5	41	113	141	190	312	472	744
0.0	0	9	5	45	120	151	195	327	480	755
-1.0	0	9	5	41	113	141	190	312	472	744
-3.0	0	9	4	34	100	121	181	281	450	715
-5.0	0	8	4	26	85	99	170	273	452	704
-7.0	0	8	4	19	70	101	171	279	452	683
-9.0	0	8	3	11	73	108	171	282	449	657
-11.0	0	7	3	4	77	115	171	280	430	620
-13.0	0	7	3	8	79	121	171	268	397	571
-15.0	0	6	2	12	81	126	167	251	367	511
-17.0	0	6	1	15	83	131	159	233	334	467
-19.5	0	5	0	17	83	124	152	207	301	408
-22.5	0	5	2	18	87	115	141	180	266	354
-25.5	0	4	4	18	80	108	130	167	229	307
-29.0	0	3	5	23	71	108	119	148	193	246
-33.0	0	3	5	29	56	97	104	126	154	174
-37.5	0	2	8	32	43	72	92	106	127	148
-42.5	0	1	12	31	44	61	75	96	102	118
-47.5	0	1	17	25	18	34	63	67	101	110
-55.0	0	0	15	14	4	14	33	38	61	76
-65.0	0	0	15	12	4	1	2	11	21	31
-75.0	0	0	10	1	0	1	2	1	2	10
-85.0	0	0	0	4	0	0	1	2	5	8
-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	11	9	5	2	0	1	2	3	4	5
75.0	13	11	7	3	1	0	0	0	0	0
65.0	38	37	28	22	17	17	22	27	32	37
55.0	78	73	70	75	77	78	85	94	103	110
47.5	105	107	114	120	123	125	127	133	139	144
42.5	140	152	163	174	171	169	167	178	196	214
37.5	169	196	226	246	254	262	267	273	292	308
33.0	231	274	309	349	386	413	432	452	480	510
29.0	298	353	414	481	528	581	632	677	724	768
25.5	372	466	568	654	737	828	918	1017	1108	1175
22.5	456	585	724	872	1018	1161	1318	1486	1647	1780
19.5	550	710	922	1155	1400	1680	1921 *	2182 *	2467 *	2717 *
17.0	643	832	1143	1486	1824	2220 *	2657 *	3072 *	3462 *	3850 *
15.0	717	969	1377	1816	2262 *	2768 *	3380 *	3997 *	4643 *	5085 *
13.0	805	1112	1624	2193 *	2752 *	3407 *	4194 *	5068 *	5945 *	6640 *
11.0	886	1257	1844	2585 *	3338 *	4175 *	5152 *	6291 *	7460 *	8591 *
9.0	962	1426	2111 *	2975 *	3898 *	5021 *	6280 *	7713 *	9214 *	10506 *
7.0	1039	1593	2412 *	3396 *	4430 *	5783 *	7402 *	9223 *	11101 *	12518 *
5.0	1083	1697	2652 *	3798 *	5004 *	6530 *	8405 *	10601 *	12571 *	14627 *
3.0	1111	1736	2752 *	4010 *	5375 *	7145 *	9264 *	11629 *	13981 *	15927 *
1.0	1131	1799	2848 *	4159 *	5570 *	7371 *	9826 *	12335 *	14767 *	16881 *
0.0	1137	1841	2921 *	4257 *	5707 *	7571 *	9809 *	12287 *	14779 *	16963 *
-1.0	1131	1799	2848 *	4159 *	5570 *	7371 *	9826 *	12335 *	14767 *	16881 *
-3.0	1111	1736	2752 *	4010 *	5375 *	7145 *	9264 *	11629 *	13981 *	15927 *
-5.0	1083	1697	2652 *	3798 *	5004 *	6530 *	8405 *	10601 *	12571 *	14627 *
-7.0	1039	1593	2412 *	3396 *	4430 *	5783 *	7402 *	9223 *	11101 *	12518 *
-9.0	962	1426	2111 *	2975 *	3898 *	5021 *	6280 *	7713 *	9214 *	10506 *
-11.0	886	1257	1844	2585 *	3338 *	4175 *	5152 *	6291 *	7460 *	8591 *
-13.0	805	1112	1624	2193 *	2752 *	3407 *	4194 *	5068 *	5945 *	6640 *
-15.0	717	969	1377	1816	2262 *	2768 *	3380 *	3997 *	4643 *	5085 *
-17.0	643	832	1143	1486	1824	2220 *	2657 *	3072 *	3462 *	3850 *
-19.5	550	710	922	1155	1400	1680	1921 *	2182 *	2467 *	2717 *
-22.5	456	585	724	872	1018	1161	1318	1486	1647	1780
-25.5	372	466	568	654	737	828	918	1017	1108	1175
-29.0	298	353	414	481	528	581	632	677	724	768
-33.0	231	274	309	349	386	413	432	452	480	510
-37.5	169	196	226	246	254	262	267	273	292	308
-42.5	140	152	163	174	171	169	167	178	196	214
-47.5	105	107	114	120	123	125	127	133	139	144
-55.0	78	73	70	75	77	78	85	94	103	110
-65.0	38	37	28	22	17	17	22	27	32	37
-75.0	13	11	7	3	1	0	0	0	0	0
-85.0	11	9	5	2	0	1	2	3	4	5
-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	6	7	7	7	6	5	4	3	2	1
75.0	0	0	0	0	0	0	0	0	0	0
65.0	39	40	40	40	39	37	32	27	22	17

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CANDELA TABULATION - (Cont.)

55.0	111	103	99	103	111	110	103	94	85	78
47.5	148	148	148	148	148	144	139	133	127	125
42.5	228	213	205	213	228	214	196	178	167	169
37.5	320	329	332	329	320	308	292	273	267	262
33.0	535	527	518	527	535	510	480	452	432	413
29.0	797	810	810	810	797	768	724	677	632	581
25.5	1227	1251	1254	1251	1227	1175	1108	1017	918	828
22.5	1866	1916 *	1932 *	1916 *	1866	1780	1647	1486	1318	1161
19.5	2873 *	2971 *	3009 *	2971 *	2873 *	2717 *	2467 *	2182 *	1921 *	1680
17.0	4109 *	4272 *	4321 *	4272 *	4109 *	3850 *	3462 *	3072 *	2657 *	2220 *
15.0	5429 *	5658 *	5721 *	5658 *	5429 *	5085 *	4643 *	3997 *	3380 *	2768 *
13.0	7100 *	7417 *	7516 *	7417 *	7100 *	6640 *	5945 *	5068 *	4194 *	3407 *
11.0	9126 *	9836 *	9663 *	9836 *	9126 *	8591 *	7460 *	6291 *	5152 *	4175 *
9.0	11419 *	12202 *	12037 *	12202 *	11419 *	10506 *	9214 *	7713 *	6280 *	5021 *
7.0	13755 *	14500 *	14395 *	14500 *	13755 *	12518 *	11101 *	9223 *	7402 *	5783 *
5.0	15754 *	16509 *	16457 *	16509 *	15754 *	14627 *	12571 *	10601 *	8405 *	6530 *
3.0	17375 *	17853 *	17878 *	17853 *	17375 *	15927 *	13981 *	11629 *	9264 *	7145 *
1.0	18235 *	18658 *	18370 *	18658 *	18235 *	16881 *	14767 *	12335 *	9826 *	7371 *
0.0	18459 *	19038 *	18573 *	19038 *	18459 *	16963 *	14779 *	12287 *	9809 *	7571 *
-1.0	18235 *	18658 *	18370 *	18658 *	18235 *	16881 *	14767 *	12335 *	9826 *	7371 *
-3.0	17375 *	17853 *	17878 *	17853 *	17375 *	15927 *	13981 *	11629 *	9264 *	7145 *
-5.0	15754 *	16509 *	16457 *	16509 *	15754 *	14627 *	12571 *	10601 *	8405 *	6530 *
-7.0	13755 *	14500 *	14395 *	14500 *	13755 *	12518 *	11101 *	9223 *	7402 *	5783 *
-9.0	11419 *	12202 *	12037 *	12202 *	11419 *	10506 *	9214 *	7713 *	6280 *	5021 *
-11.0	9126 *	9836 *	9663 *	9836 *	9126 *	8591 *	7460 *	6291 *	5152 *	4175 *
-13.0	7100 *	7417 *	7516 *	7417 *	7100 *	6640 *	5945 *	5068 *	4194 *	3407 *
-15.0	5429 *	5658 *	5721 *	5658 *	5429 *	5085 *	4643 *	3997 *	3380 *	2768 *
-17.0	4109 *	4272 *	4321 *	4272 *	4109 *	3850 *	3462 *	3072 *	2657 *	2220 *
-19.5	2873 *	2971 *	3009 *	2971 *	2873 *	2717 *	2467 *	2182 *	1921 *	1680
-22.5	1866	1916 *	1932 *	1916 *	1866	1780	1647	1486	1318	1161
-25.5	1227	1251	1254	1251	1227	1175	1108	1017	918	828
-29.0	797	810	810	810	797	768	724	677	632	581
-33.0	535	527	518	527	535	510	480	452	432	413
-37.5	320	329	332	329	320	308	292	273	267	262
-42.5	228	213	205	213	228	214	196	178	167	169
-47.5	148	148	148	148	148	144	139	133	127	125
-55.0	111	103	99	103	111	110	103	94	85	78
-65.0	39	40	40	40	39	37	32	27	22	17
-75.0	0	0	0	0	0	0	0	0	0	0
-85.0	6	7	7	7	6	5	4	3	2	1
-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	2	5	9	11	8	5	2	1	0
75.0	1	3	7	11	13	10	2	1	2	1
65.0	17	22	28	37	38	31	21	11	2	1
55.0	77	75	70	73	78	76	61	38	33	14
47.5	123	120	114	107	105	110	101	67	63	34
42.5	171	174	163	152	140	118	102	96	75	61
37.5	254	246	226	196	169	148	127	106	92	72
33.0	386	349	309	274	231	174	154	126	104	97
29.0	528	481	414	353	298	246	193	148	119	108
25.5	737	654	568	466	372	307	229	167	130	108

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CANDELA TABULATION - (Cont.)

22.5	1018	872	724	585	456	354	266	180	141	115
19.5	1400	1155	922	710	550	408	301	207	152	124
17.0	1824	1486	1143	832	643	467	334	233	159	131
15.0	2262 *	1816	1377	969	717	511	367	251	167	126
13.0	2752 *	2193 *	1624	1112	805	571	397	268	171	121
11.0	3338 *	2585 *	1844	1257	886	620	430	280	171	115
9.0	3898 *	2975 *	2111 *	1426	962	657	449	282	171	108
7.0	4430 *	3396 *	2412 *	1593	1039	683	452	279	171	101
5.0	5004 *	3798 *	2652 *	1697	1083	704	452	273	170	99
3.0	5375 *	4010 *	2752 *	1736	1111	715	450	281	181	121
1.0	5570 *	4159 *	2848 *	1799	1131	744	472	312	190	141
0.0	5707 *	4257 *	2921 *	1841	1137	755	480	327	195	151
-1.0	5570 *	4159 *	2848 *	1799	1131	744	472	312	190	141
-3.0	5375 *	4010 *	2752 *	1736	1111	715	450	281	181	121
-5.0	5004 *	3798 *	2652 *	1697	1083	704	452	273	170	99
-7.0	4430 *	3396 *	2412 *	1593	1039	683	452	279	171	101
-9.0	3898 *	2975 *	2111 *	1426	962	657	449	282	171	108
-11.0	3338 *	2585 *	1844	1257	886	620	430	280	171	115
-13.0	2752 *	2193 *	1624	1112	805	571	397	268	171	121
-15.0	2262 *	1816	1377	969	717	511	367	251	167	126
-17.0	1824	1486	1143	832	643	467	334	233	159	131
-19.5	1400	1155	922	710	550	408	301	207	152	124
-22.5	1018	872	724	585	456	354	266	180	141	115
-25.5	737	654	568	466	372	307	229	167	130	108
-29.0	528	481	414	353	298	246	193	148	119	108
-33.0	386	349	309	274	231	174	154	126	104	97
-37.5	254	246	226	196	169	148	127	106	92	72
-42.5	171	174	163	152	140	118	102	96	75	61
-47.5	123	120	114	107	105	110	101	67	63	34
-55.0	77	75	70	73	78	76	61	38	33	14
-65.0	17	22	28	37	38	31	21	11	2	1
-75.0	1	3	7	11	13	10	2	1	2	1
-85.0	0	2	5	9	11	8	5	2	1	0
-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	4	0	0	0
75.0	0	1	10	0	0
65.0	4	12	15	0	0
55.0	4	14	15	0	0
47.5	18	25	17	1	0
42.5	44	31	12	1	0
37.5	43	32	8	2	0
33.0	56	29	5	3	0
29.0	71	23	5	3	0
25.5	80	18	4	4	0
22.5	87	18	2	5	0
19.5	83	17	0	5	0
17.0	83	15	1	6	0
15.0	81	12	2	6	0
13.0	79	8	3	7	0
11.0	77	4	3	7	0
9.0	73	11	3	8	0

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CANDELA TABULATION - (Cont.)

7.0	70	19	4	8	0
5.0	85	26	4	8	0
3.0	100	34	4	9	0
1.0	113	41	5	9	0
0.0	120	45	5	9	0
-1.0	113	41	5	9	0
-3.0	100	34	4	9	0
-5.0	85	26	4	8	0
-7.0	70	19	4	8	0
-9.0	73	11	3	8	0
-11.0	77	4	3	7	0
-13.0	79	8	3	7	0
-15.0	81	12	2	6	0
-17.0	83	15	1	6	0
-19.5	83	17	0	5	0
-22.5	87	18	2	5	0
-25.5	80	18	4	4	0
-29.0	71	23	5	3	0
-33.0	56	29	5	3	0
-37.5	43	32	8	2	0
-42.5	44	31	12	1	0
-47.5	18	25	17	1	0
-55.0	4	14	15	0	0
-65.0	4	12	15	0	0
-75.0	0	1	10	0	0
-85.0	0	4	0	0	0
-90.0	0	0	0	0	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2072.48

Total Field Lumens (one side of beam only) = 1600.95

* 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	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
75	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.03
65	0.06	0.12	0.12	0.10	0.09	0.07	0.06	0.05	0.06	0.11
55	0.21	0.45	0.45	0.43	0.39	0.34	0.30	0.28	0.28	0.35
47.5	0.28	0.58	0.58	0.56	0.53	0.49	0.46	0.45	0.43	0.51
42.5	0.27	0.56	0.56	0.52	0.49	0.45	0.44	0.43	0.43	0.52
37.5	0.41	0.83	0.81	0.76	0.71	0.66	0.64	0.63	0.62	0.73
33	0.58	1.17	1.14	1.08	1.02	0.96	0.92	0.87	0.81	0.92
29	0.81	1.62	1.59	1.50	1.41	1.32	1.23	1.13	1.02	1.12
25.5	1.10	2.18	2.11	2.00	1.86	1.70	1.54	1.38	1.23	1.34
22.5	1.45	2.86	2.76	2.59	2.38	2.13	1.89	1.66	1.44	1.53
19.5	2.25 *	4.40 *	4.21 *	3.91 *	3.52 *	3.11	2.72	2.33	1.95	1.99
17	2.77 *	5.41 *	5.15 *	4.73 *	4.22 *	3.69 *	3.16 *	2.63	2.15	2.13
15	3.04 *	5.93 *	5.61 *	5.16 *	4.58 *	3.93 *	3.28 *	2.68 *	2.16	2.11
13	4.01 *	7.79 *	7.37 *	6.76 *	5.93 *	4.99 *	4.10 *	3.31 *	2.64 *	2.53
11	5.24 *	10.19 *	9.56 *	8.67 *	7.47 *	6.21 *	5.04 *	4.04 *	3.18 *	2.98 *
9	6.66 *	12.96 *	12.05 *	10.84 *	9.25 *	7.63 *	6.15 *	4.86 *	3.75 *	3.44 *
7	8.09 *	15.79 *	14.65 *	13.13 *	11.24 *	9.18 *	7.30 *	5.65 *	4.30 *	3.94 *
5	9.42 *	18.42 *	17.21 *	15.39 *	13.12 *	10.69 *	8.38 *	6.43 *	4.87 *	4.43 *
3	10.46 *	20.55 *	19.35 *	17.30 *	14.71 *	11.97 *	9.34 *	7.11 *	5.33 *	4.78 *
1	11.08 *	21.95 *	20.79 *	18.65 *	15.90 *	12.92 *	10.01 *	7.53 *	5.60 *	4.98 *
0	5.68 *	11.32 *	10.72 *	9.60 *	8.17 *	6.64 *	5.15 *	3.87 *	2.88 *	2.56 *
-1	5.68 *	11.32 *	10.72 *	9.60 *	8.17 *	6.64 *	5.15 *	3.87 *	2.88 *	2.56 *
	11.08 *	21.95 *	20.79 *	18.65 *	15.90 *	12.92 *	10.01 *	7.53 *	5.60 *	4.98 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	10.46 *	20.55 *	19.35 *	17.30 *	14.71 *	11.97 *	9.34 *	7.11 *	5.33 *	4.78 *
-5	9.42 *	18.42 *	17.21 *	15.39 *	13.12 *	10.69 *	8.38 *	6.43 *	4.87 *	4.43 *
-7	8.09 *	15.79 *	14.65 *	13.13 *	11.24 *	9.18 *	7.30 *	5.65 *	4.30 *	3.94 *
-9	6.66 *	12.96 *	12.05 *	10.84 *	9.25 *	7.63 *	6.15 *	4.86 *	3.75 *	3.44 *
-11	5.24 *	10.19 *	9.56 *	8.67 *	7.47 *	6.21 *	5.04 *	4.04 *	3.18 *	2.98 *
-13	4.01 *	7.79 *	7.37 *	6.76 *	5.93 *	4.99 *	4.10 *	3.31 *	2.64 *	2.53
-15	3.04 *	5.93 *	5.61 *	5.16 *	4.58 *	3.93 *	3.28 *	2.68 *	2.16	2.11
-17	2.77 *	5.41 *	5.15 *	4.73 *	4.22 *	3.69 *	3.16 *	2.63	2.15	2.13
-19.5	2.25 *	4.40 *	4.21 *	3.91 *	3.52 *	3.11	2.72	2.33	1.95	1.99
-22.5	1.45	2.86	2.76	2.59	2.38	2.13	1.89	1.66	1.44	1.53
-25.5	1.10	2.18	2.11	2.00	1.86	1.70	1.54	1.38	1.23	1.34
-29	0.81	1.62	1.59	1.50	1.41	1.32	1.23	1.13	1.02	1.12
-33	0.58	1.17	1.14	1.08	1.02	0.96	0.92	0.87	0.81	0.92
-37.5	0.41	0.83	0.81	0.76	0.71	0.66	0.64	0.63	0.62	0.73
-42.5	0.27	0.56	0.56	0.52	0.49	0.45	0.44	0.43	0.43	0.52
-47.5	0.28	0.58	0.58	0.56	0.53	0.49	0.46	0.45	0.43	0.51
-55	0.21	0.45	0.45	0.43	0.39	0.34	0.30	0.28	0.28	0.35
-65	0.06	0.12	0.12	0.10	0.09	0.07	0.06	0.05	0.06	0.11
-75	0.01	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.01	0.03
-85	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
-90										
Total	147.84	290.24	273.61	247.47	213.97	178.21	144.22	114.67	90.30	86.09

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										
85	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01
75	0.07	0.09	0.10	0.07	0.03	0.02	0.01	0.00	0.02	0.04
65	0.18	0.21	0.22	0.17	0.10	0.05	0.02	0.02	0.06	0.10
55	0.44	0.47	0.53	0.49	0.37	0.24	0.13	0.08	0.13	0.15
55	0.58	0.57	0.66	0.68	0.56	0.44	0.29	0.19	0.17	0.14

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LUMENS TABULATION - (Cont.)

47.5										
	0.57	0.53	0.56	0.56	0.51	0.44	0.31	0.28	0.22	0.11
42.5										
	0.79	0.69	0.68	0.65	0.60	0.54	0.40	0.39	0.29	0.11
37.5										
	0.96	0.82	0.77	0.71	0.65	0.56	0.44	0.43	0.27	0.09
33										
	1.15	0.96	0.90	0.80	0.69	0.58	0.46	0.47	0.27	0.06
29										
	1.34	1.09	1.01	0.89	0.72	0.58	0.44	0.46	0.26	0.05
25.5										
	1.50	1.18	1.06	0.91	0.71	0.54	0.40	0.42	0.23	0.03
22.5										
	1.88	1.44	1.26	1.04	0.80	0.59	0.43	0.44	0.23	0.03
19.5										
	1.92	1.43	1.22	0.99	0.75	0.55	0.38	0.38	0.19	0.02
17										
	1.84	1.32	1.11	0.88	0.66	0.47	0.31	0.30	0.15	0.02
15										
	2.17	1.50	1.23	0.96	0.72	0.50	0.31	0.29	0.14	0.01
13										
	2.49	1.69	1.37	1.05	0.77	0.52	0.31	0.28	0.13	0.01
11										
	2.83	1.89	1.48	1.13	0.81	0.53	0.30	0.27	0.13	0.01
9										
	3.22	2.10	1.58	1.17	0.82	0.53	0.30	0.25	0.13	0.02
7										
	3.56 *	2.26	1.66	1.20	0.81	0.52	0.29	0.25	0.15	0.03
5										
	3.77 *	2.35	1.71	1.21	0.81	0.53	0.31	0.29	0.19	0.04
3										
	3.90 *	2.41	1.75	1.24	0.85	0.56	0.34	0.34	0.22	0.04
1										
	2.01 *	1.23	0.89	0.64	0.45	0.30	0.18	0.19	0.12	0.02
0										
	2.01 *	1.23	0.89	0.64	0.45	0.30	0.18	0.19	0.12	0.02
-1										
	3.90 *	2.41	1.75	1.24	0.85	0.56	0.34	0.34	0.22	0.04
-3										
	3.77 *	2.35	1.71	1.21	0.81	0.53	0.31	0.29	0.19	0.04
-5										
	3.56 *	2.26	1.66	1.20	0.81	0.52	0.29	0.25	0.15	0.03
-7										
	3.22	2.10	1.58	1.17	0.82	0.53	0.30	0.25	0.13	0.02
-9										
	2.83	1.89	1.48	1.13	0.81	0.53	0.30	0.27	0.13	0.01
-11										
	2.49	1.69	1.37	1.05	0.77	0.52	0.31	0.28	0.13	0.01
-13										
	2.17	1.50	1.23	0.96	0.72	0.50	0.31	0.29	0.14	0.01
-15										
	1.84	1.32	1.11	0.88	0.66	0.47	0.31	0.30	0.15	0.02
-17										
	1.92	1.43	1.22	0.99	0.75	0.55	0.38	0.38	0.19	0.02
-19.5										
	1.88	1.44	1.26	1.04	0.80	0.59	0.43	0.44	0.23	0.03

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LUMENS TABULATION - (Cont.)

-22.5	1.50	1.18	1.06	0.91	0.71	0.54	0.40	0.42	0.23	0.03
-25.5	1.34	1.09	1.01	0.89	0.72	0.58	0.44	0.46	0.26	0.05
-29	1.15	0.96	0.90	0.80	0.69	0.58	0.46	0.47	0.27	0.06
-33	0.96	0.82	0.77	0.71	0.65	0.56	0.44	0.43	0.27	0.09
-37.5	0.79	0.69	0.68	0.65	0.60	0.54	0.40	0.39	0.29	0.11
-42.5	0.57	0.53	0.56	0.56	0.51	0.44	0.31	0.28	0.22	0.11
-47.5	0.58	0.57	0.66	0.68	0.56	0.44	0.29	0.19	0.17	0.14
-55	0.44	0.47	0.53	0.49	0.37	0.24	0.13	0.08	0.13	0.15
-65	0.18	0.21	0.22	0.17	0.10	0.05	0.02	0.02	0.06	0.10
-75	0.07	0.09	0.10	0.07	0.03	0.02	0.01	0.00	0.02	0.04
-85	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01
-90	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01
Total	74.38	52.48	43.56	34.89	26.39	19.17	12.77	12.05	7.41	2.25

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.00	0.00	0.15	
85				
	0.01	0.00	0.58	
75				
	0.03	0.00	1.99	
65				
	0.04	0.00	6.56	
55				
	0.03	0.00	9.21	
47.5				
	0.02	0.00	8.80	
42.5				
	0.02	0.00	11.96	
37.5				
	0.01	0.00	15.20	
33				
	0.01	0.00	19.12	
29				
	0.01	0.00	23.29	
25.5				
	0.01	0.00	27.66	
22.5				
	0.00	0.00	38.54	
19.5				
	0.00	0.00	43.86	
17				
	0.00	0.00	45.55	

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

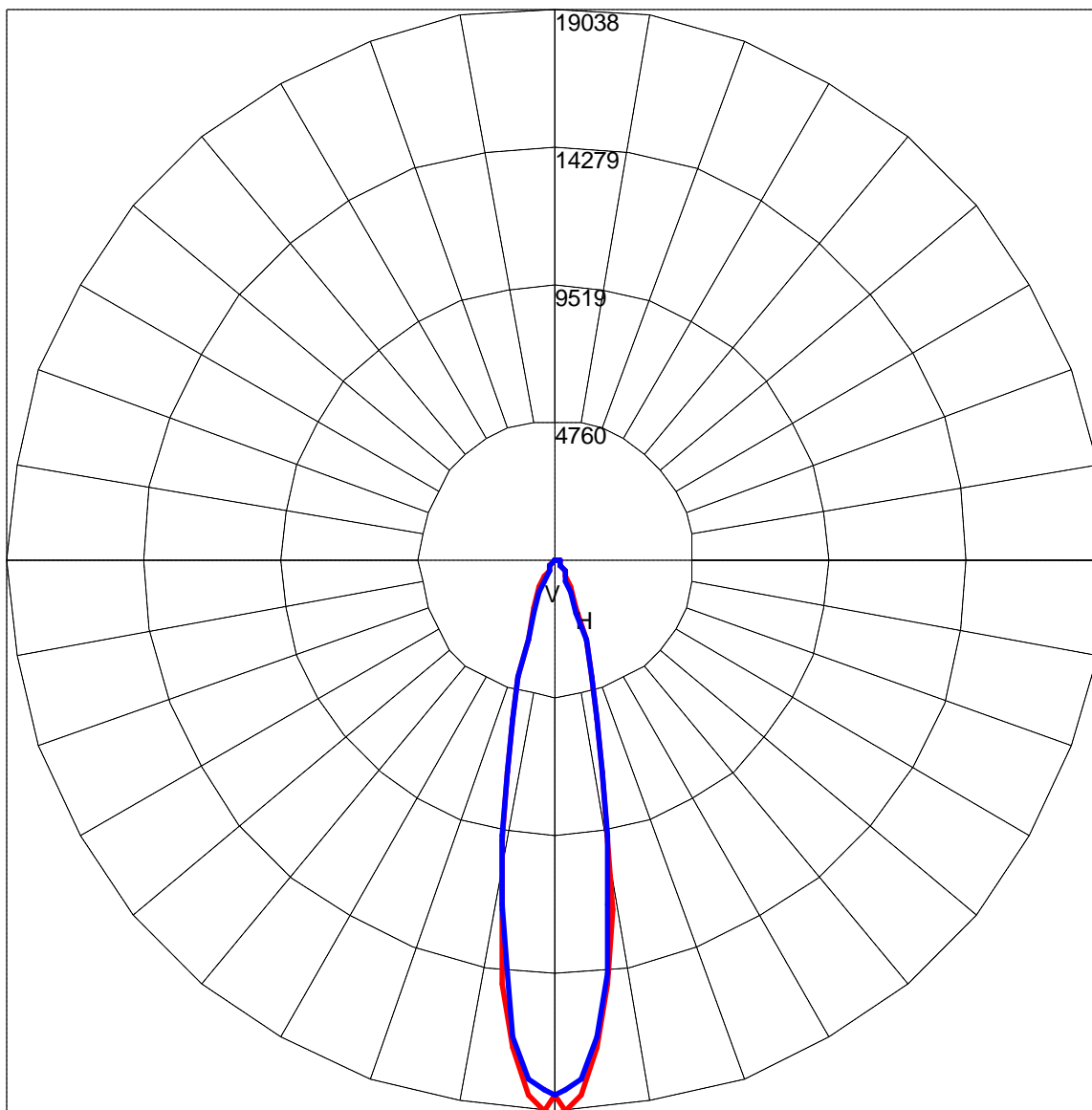
15	0.00	0.00	57.28
13	0.01	0.00	71.22
11	0.01	0.00	86.96
9	0.01	0.00	103.39
7	0.01	0.00	119.12
5	0.01	0.00	132.10
3	0.01	0.00	141.07
1	0.00	0.00	72.64
0	0.00	0.00	72.64
-1	0.01	0.00	141.07
-3	0.01	0.00	132.10
-5	0.01	0.00	119.12
-7	0.01	0.00	103.39
-9	0.01	0.00	86.96
-11	0.01	0.00	71.22
-13	0.00	0.00	57.28
-15	0.00	0.00	45.55
-17	0.00	0.00	43.86
-19.5	0.00	0.00	38.54
-22.5	0.01	0.00	27.66
-25.5	0.01	0.00	23.29
-29	0.01	0.00	19.12
-33	0.01	0.00	15.20
-37.5	0.02	0.00	11.96
-42.5	0.02	0.00	8.80
-47.5	0.03	0.00	9.21
-55	0.04	0.00	6.56
-65	0.03	0.00	1.99

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

LUMENS TABULATION - (Cont.)

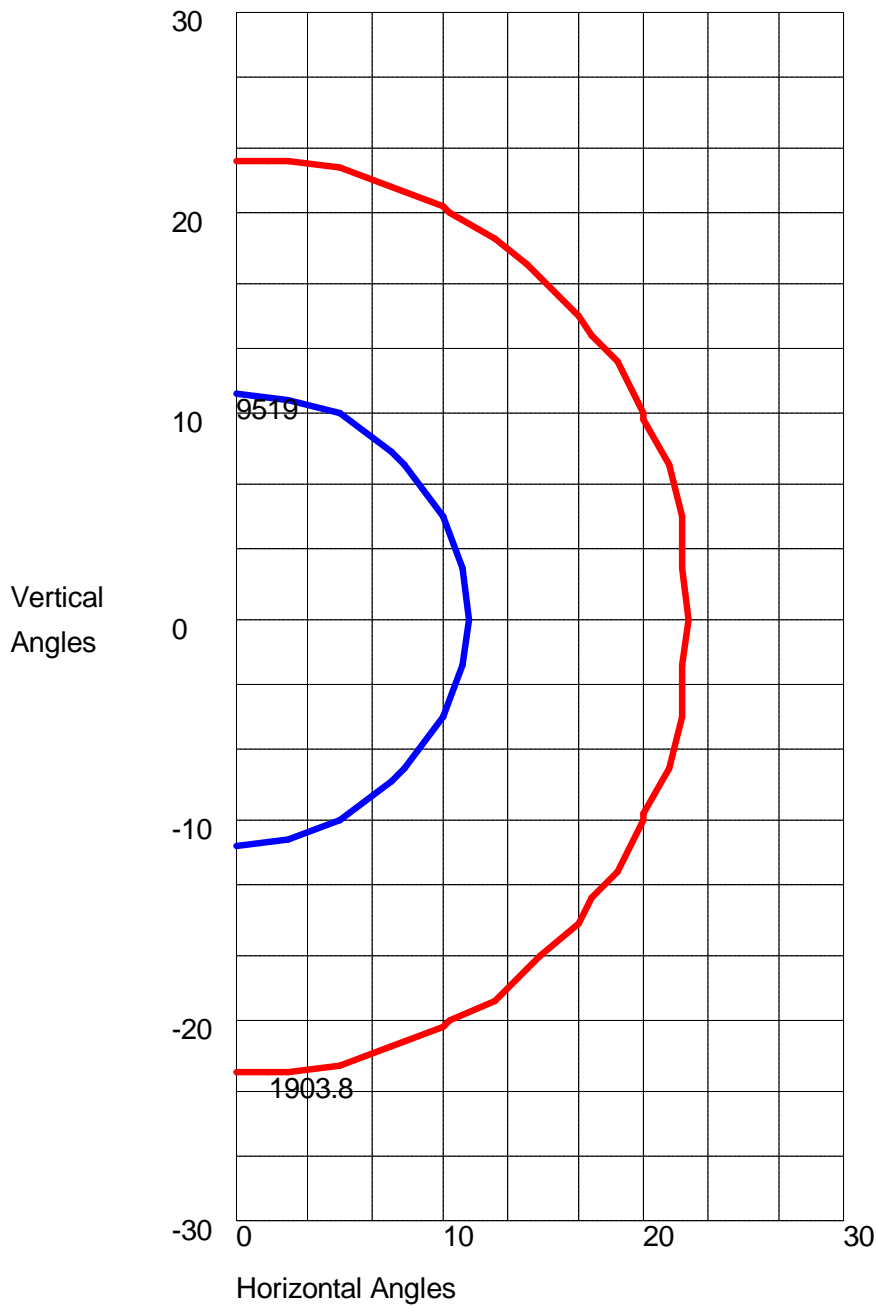
-75	0.01	0.00	0.58
-85	0.00	0.00	0.15
-90			
Total	0.49	0.01	2072.48

AXIAL CANDELA DISPLAY



Maximum Candela = 19038 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 19038 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 9519
10% Maximum Candela = 1903.8