



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-5169

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]02/19/14

[TEST DATE]02/19/14

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]XFLM-NF-LED-28-HO-NW

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

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[\_ABSOLUTE LUMENS]2969

[\_SEARCH\_SOURCE TYPE] LED

[\_SEARCH\_APPLICATION] Outdoor

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

### CHARACTERISTICS

NEMA Type	3 H x 3 V
Maximum Candela	13882
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	22.4
Vertical Beam Angle (50%)	21.8
Horizontal Field Angle (10%)	45.4
Vertical Field Angle (10%)	44.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1160
Beam Efficiency	N.A.
Field Lumens	2290
Field Efficiency	N.A.
Spill Lumens	688
Luminaire Lumens	2979
Total Efficiency	N.A.
Total Luminaire Watts	39
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	2
65	22	65	24
55	60	55	61
47.5	100	47.5	104
42.5	159	42.5	158
37.5	237	37.5	239
33	374	33	373
29	590	29	557
25.5	923	25.5	867
22.5	1422	22.5	1338
19.5	2201	19.5	2075
17	3135	17	2970
15	4161	15	3949
13	5479	13	5203
11	7083	11	6716
9	8883	9	8412
7	10698	7	10148
5	12312	5	11873
3	13422	3	12910
1	13882	1	13294
0	13601	0	13601
-1	13882	-1	13294
-3	13422	-3	12910
-5	12312	-5	11873
-7	10698	-7	10148
-9	8883	-9	8412
-11	7083	-11	6716
-13	5479	-13	5203
-15	4161	-15	3949
-17	3135	-17	2970
-19.5	2201	-19.5	2075
-22.5	1422	-22.5	1338
-25.5	923	-25.5	867
-29	590	-29	557
-33	374	-33	373
-37.5	237	-37.5	239
-42.5	159	-42.5	158
-47.5	100	-47.5	104
-55	60	-55	61
-65	22	-65	24
-75	0	-75	2
-85	0	-85	0
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 13882

Beam Edge = 6941 Cd (50% of Max.)

Field Edge = 1388.2 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	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	0	0	0	0	0	3	6	10	12	15
<b>55.0</b>	0	0	0	0	7	17	22	29	34	39
<b>47.5</b>	0	0	0	3	15	29	37	47	56	63
<b>42.5</b>	0	0	0	5	21	37	48	61	73	83
<b>37.5</b>	0	0	0	8	27	46	60	75	92	109
<b>33.0</b>	0	0	0	11	33	54	70	90	114	147
<b>29.0</b>	0	0	0	13	37	62	81	107	147	189
<b>25.5</b>	0	0	0	14	41	68	90	126	178	233
<b>22.5</b>	0	0	0	16	45	74	99	144	204	281
<b>19.5</b>	0	0	0	17	48	79	108	161	230	325
<b>17.0</b>	0	0	0	18	51	83	114	174	255	365
<b>15.0</b>	0	0	0	19	53	87	120	183	278	399
<b>13.0</b>	0	0	0	19	54	90	128	196	299	439
<b>11.0</b>	0	0	0	20	56	92	135	208	322	475
<b>9.0</b>	0	0	0	20	57	95	142	219	341	506
<b>7.0</b>	0	0	0	21	59	97	148	227	355	535
<b>5.0</b>	0	0	0	21	59	99	153	232	365	559
<b>3.0</b>	0	0	0	22	60	100	158	235	371	578
<b>1.0</b>	0	0	0	22	60	100	159	237	374	589
<b>0.0</b>	0	0	0	22	60	100	159	237	374	590
<b>-1.0</b>	0	0	0	22	60	100	159	237	374	589
<b>-3.0</b>	0	0	0	22	60	100	158	235	371	578
<b>-5.0</b>	0	0	0	21	59	99	153	232	365	559
<b>-7.0</b>	0	0	0	21	59	97	148	227	355	535
<b>-9.0</b>	0	0	0	20	57	95	142	219	341	506
<b>-11.0</b>	0	0	0	20	56	92	135	208	322	475
<b>-13.0</b>	0	0	0	19	54	90	128	196	299	439
<b>-15.0</b>	0	0	0	19	53	87	120	183	278	399
<b>-17.0</b>	0	0	0	18	51	83	114	174	255	365
<b>-19.5</b>	0	0	0	17	48	79	108	161	230	325
<b>-22.5</b>	0	0	0	16	45	74	99	144	204	281
<b>-25.5</b>	0	0	0	14	41	68	90	126	178	233
<b>-29.0</b>	0	0	0	13	37	62	81	107	147	189
<b>-33.0</b>	0	0	0	11	33	54	70	90	114	147
<b>-37.5</b>	0	0	0	8	27	46	60	75	92	109
<b>-42.5</b>	0	0	0	5	21	37	48	61	73	83
<b>-47.5</b>	0	0	0	3	15	29	37	47	56	63
<b>-55.0</b>	0	0	0	0	7	17	22	29	34	39
<b>-65.0</b>	0	0	0	0	0	3	6	10	12	15
<b>-75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>-85.0</b>	0	0	0	0	0	0	0	0	0	0
<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	0	0	0	0	0	0	0	0	0	0
75.0	0	1	1	1	1	1	1	1	2	2
65.0	17	18	19	21	21	22	23	23	23	24
55.0	43	47	51	54	56	57	59	59	60	60
47.5	70	77	82	87	90	93	95	97	99	101
42.5	94	104	115	122	128	133	137	142	147	151
37.5	129	150	168	182	192	201	210	218	227	235
33.0	176	202	227	254	274	291	312	333	349	362
29.0	229	273	316	356	388	426	462	492	518	537
25.5	296	358	425	487	543	601	660	717	772	812
22.5	359	446	546	643	735	839	948	1054	1150	1229
19.5	429	545	703	871	1029	1203	1387	1568 *	1732 *	1867 *
17.0	494	645	872	1122	1360	1617 *	1890 *	2166 *	2427 *	2647 *
15.0	550	743	1033	1360	1697 *	2028 *	2402 *	2786 *	3157 *	3478 *
13.0	612	851	1214	1626 *	2034 *	2505 *	3006 *	3540 *	4068 *	4530 *
11.0	678	964	1409 *	1917 *	2428 *	3028 *	3724 *	4446 *	5172 *	5861 *
9.0	742	1084	1611 *	2222 *	2851 *	3612 *	4501 *	5473 *	6428 *	7366 *
7.0	805	1200	1809 *	2524 *	3268 *	4195 *	5308 *	6528 *	7745 *	8808 *
5.0	854	1296	1979 *	2792 *	3646 *	4724 *	6079 *	7491 *	8970 *	10325 *
3.0	894	1367	2108 *	2993 *	3946 *	5157 *	6613 *	8369 *	10138 *	11612 *
1.0	918	1412 *	2184 *	3121 *	4140 *	5450 *	7036 *	8845 *	10672 *	12309 *
0.0	923	1422 *	2201 *	3135 *	4161 *	5479 *	7083 *	8883 *	10698 *	12312 *
-1.0	918	1412 *	2184 *	3121 *	4140 *	5450 *	7036 *	8845 *	10672 *	12309 *
-3.0	894	1367	2108 *	2993 *	3946 *	5157 *	6613 *	8369 *	10138 *	11612 *
-5.0	854	1296	1979 *	2792 *	3646 *	4724 *	6079 *	7491 *	8970 *	10325 *
-7.0	805	1200	1809 *	2524 *	3268 *	4195 *	5308 *	6528 *	7745 *	8808 *
-9.0	742	1084	1611 *	2222 *	2851 *	3612 *	4501 *	5473 *	6428 *	7366 *
-11.0	678	964	1409 *	1917 *	2428 *	3028 *	3724 *	4446 *	5172 *	5861 *
-13.0	612	851	1214	1626 *	2034 *	2505 *	3006 *	3540 *	4068 *	4530 *
-15.0	550	743	1033	1360	1697 *	2028 *	2402 *	2786 *	3157 *	3478 *
-17.0	494	645	872	1122	1360	1617 *	1890 *	2166 *	2427 *	2647 *
-19.5	429	545	703	871	1029	1203	1387	1568 *	1732 *	1867 *
-22.5	359	446	546	643	735	839	948	1054	1150	1229
-25.5	296	358	425	487	543	601	660	717	772	812
-29.0	229	273	316	356	388	426	462	492	518	537
-33.0	176	202	227	254	274	291	312	333	349	362
-37.5	129	150	168	182	192	201	210	218	227	235
-42.5	94	104	115	122	128	133	137	142	147	151
-47.5	70	77	82	87	90	93	95	97	99	101
-55.0	43	47	51	54	56	57	59	59	60	60
-65.0	17	18	19	21	21	22	23	23	23	24
-75.0	0	1	1	1	1	1	1	1	2	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	2	2	2	2	2	2	2	1	1	1
65.0	24	24	24	24	24	24	23	23	23	22

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**CANDELA TABULATION - (Cont.)**

55.0	61	61	61	61	61	60	60	59	59	57
47.5	102	103	104	103	102	101	99	97	95	93
42.5	155	157	158	157	155	151	147	142	137	133
37.5	241	240	239	240	241	235	227	218	210	201
33.0	370	373	373	373	370	362	349	333	312	291
29.0	549	557	557	557	549	537	518	492	462	426
25.5	842	862	867	862	842	812	772	717	660	601
22.5	1288	1327	1338	1327	1288	1229	1150	1054	948	839
19.5	1983 *	2055 *	2075 *	2055 *	1983 *	1867 *	1732 *	1568 *	1387	1203
17.0	2826 *	2947 *	2970 *	2947 *	2826 *	2647 *	2427 *	2166 *	1890 *	1617 *
15.0	3736 *	3916 *	3949 *	3916 *	3736 *	3478 *	3157 *	2786 *	2402 *	2028 *
13.0	4899 *	5154 *	5203 *	5154 *	4899 *	4530 *	4068 *	3540 *	3006 *	2505 *
11.0	6429 *	6854 *	6716 *	6854 *	6429 *	5861 *	5172 *	4446 *	3724 *	3028 *
9.0	8141 *	8565 *	8412 *	8565 *	8141 *	7366 *	6428 *	5473 *	4501 *	3612 *
7.0	9816 *	10299 *	10148 *	10299 *	9816 *	8808 *	7745 *	6528 *	5308 *	4195 *
5.0	11366 *	11846 *	11873 *	11846 *	11366 *	10325 *	8970 *	7491 *	6079 *	4724 *
3.0	12563 *	12895 *	12910 *	12895 *	12563 *	11612 *	10138 *	8369 *	6613 *	5157 *
1.0	13328 *	13627 *	13294 *	13627 *	13328 *	12309 *	10672 *	8845 *	7036 *	5450 *
0.0	13422 *	13882 *	13601 *	13882 *	13422 *	12312 *	10698 *	8883 *	7083 *	5479 *
-1.0	13328 *	13627 *	13294 *	13627 *	13328 *	12309 *	10672 *	8845 *	7036 *	5450 *
-3.0	12563 *	12895 *	12910 *	12895 *	12563 *	11612 *	10138 *	8369 *	6613 *	5157 *
-5.0	11366 *	11846 *	11873 *	11846 *	11366 *	10325 *	8970 *	7491 *	6079 *	4724 *
-7.0	9816 *	10299 *	10148 *	10299 *	9816 *	8808 *	7745 *	6528 *	5308 *	4195 *
-9.0	8141 *	8565 *	8412 *	8565 *	8141 *	7366 *	6428 *	5473 *	4501 *	3612 *
-11.0	6429 *	6854 *	6716 *	6854 *	6429 *	5861 *	5172 *	4446 *	3724 *	3028 *
-13.0	4899 *	5154 *	5203 *	5154 *	4899 *	4530 *	4068 *	3540 *	3006 *	2505 *
-15.0	3736 *	3916 *	3949 *	3916 *	3736 *	3478 *	3157 *	2786 *	2402 *	2028 *
-17.0	2826 *	2947 *	2970 *	2947 *	2826 *	2647 *	2427 *	2166 *	1890 *	1617 *
-19.5	1983 *	2055 *	2075 *	2055 *	1983 *	1867 *	1732 *	1568 *	1387	1203
-22.5	1288	1327	1338	1327	1288	1229	1150	1054	948	839
-25.5	842	862	867	862	842	812	772	717	660	601
-29.0	549	557	557	557	549	537	518	492	462	426
-33.0	370	373	373	373	370	362	349	333	312	291
-37.5	241	240	239	240	241	235	227	218	210	201
-42.5	155	157	158	157	155	151	147	142	137	133
-47.5	102	103	104	103	102	101	99	97	95	93
-55.0	61	61	61	61	61	60	60	59	59	57
-65.0	24	24	24	24	24	24	23	23	23	22
-75.0	2	2	2	2	2	2	2	1	1	1
-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	0	0	0	0	0
75.0	1	1	1	1	0	0	0	0	0	0
65.0	21	21	19	18	17	15	12	10	6	3
55.0	56	54	51	47	43	39	34	29	22	17
47.5	90	87	82	77	70	63	56	47	37	29
42.5	128	122	115	104	94	83	73	61	48	37
37.5	192	182	168	150	129	109	92	75	60	46
33.0	274	254	227	202	176	147	114	90	70	54
29.0	388	356	316	273	229	189	147	107	81	62
25.5	543	487	425	358	296	233	178	126	90	68

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**CANDELA TABULATION - (Cont.)**

22.5	735	643	546	446	359	281	204	144	99	74
19.5	1029	871	703	545	429	325	230	161	108	79
17.0	1360	1122	872	645	494	365	255	174	114	83
15.0	1697 *	1360	1033	743	550	399	278	183	120	87
13.0	2034 *	1626 *	1214	851	612	439	299	196	128	90
11.0	2428 *	1917 *	1409 *	964	678	475	322	208	135	92
9.0	2851 *	2222 *	1611 *	1084	742	506	341	219	142	95
7.0	3268 *	2524 *	1809 *	1200	805	535	355	227	148	97
5.0	3646 *	2792 *	1979 *	1296	854	559	365	232	153	99
3.0	3946 *	2993 *	2108 *	1367	894	578	371	235	158	100
1.0	4140 *	3121 *	2184 *	1412 *	918	589	374	237	159	100
0.0	4161 *	3135 *	2201 *	1422 *	923	590	374	237	159	100
-1.0	4140 *	3121 *	2184 *	1412 *	918	589	374	237	159	100
-3.0	3946 *	2993 *	2108 *	1367	894	578	371	235	158	100
-5.0	3646 *	2792 *	1979 *	1296	854	559	365	232	153	99
-7.0	3268 *	2524 *	1809 *	1200	805	535	355	227	148	97
-9.0	2851 *	2222 *	1611 *	1084	742	506	341	219	142	95
-11.0	2428 *	1917 *	1409 *	964	678	475	322	208	135	92
-13.0	2034 *	1626 *	1214	851	612	439	299	196	128	90
-15.0	1697 *	1360	1033	743	550	399	278	183	120	87
-17.0	1360	1122	872	645	494	365	255	174	114	83
-19.5	1029	871	703	545	429	325	230	161	108	79
-22.5	735	643	546	446	359	281	204	144	99	74
-25.5	543	487	425	358	296	233	178	126	90	68
-29.0	388	356	316	273	229	189	147	107	81	62
-33.0	274	254	227	202	176	147	114	90	70	54
-37.5	192	182	168	150	129	109	92	75	60	46
-42.5	128	122	115	104	94	83	73	61	48	37
-47.5	90	87	82	77	70	63	56	47	37	29
-55.0	56	54	51	47	43	39	34	29	22	17
-65.0	21	21	19	18	17	15	12	10	6	3
-75.0	1	1	1	1	0	0	0	0	0	0
-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>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	0	0
75.0	0	0	0	0	0
65.0	0	0	0	0	0
55.0	7	0	0	0	0
47.5	15	3	0	0	0
42.5	21	5	0	0	0
37.5	27	8	0	0	0
33.0	33	11	0	0	0
29.0	37	13	0	0	0
25.5	41	14	0	0	0
22.5	45	16	0	0	0
19.5	48	17	0	0	0
17.0	51	18	0	0	0
15.0	53	19	0	0	0
13.0	54	19	0	0	0
11.0	56	20	0	0	0
9.0	57	20	0	0	0

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CANDELA TABULATION - (Cont.)

7.0	59	21	0	0	0
5.0	59	21	0	0	0
3.0	60	22	0	0	0
1.0	60	22	0	0	0
0.0	60	22	0	0	0
-1.0	60	22	0	0	0
-3.0	60	22	0	0	0
-5.0	59	21	0	0	0
-7.0	59	21	0	0	0
-9.0	57	20	0	0	0
-11.0	56	20	0	0	0
-13.0	54	19	0	0	0
-15.0	53	19	0	0	0
-17.0	51	18	0	0	0
-19.5	48	17	0	0	0
-22.5	45	16	0	0	0
-25.5	41	14	0	0	0
-29.0	37	13	0	0	0
-33.0	33	11	0	0	0
-37.5	27	8	0	0	0
-42.5	21	5	0	0	0
-47.5	15	3	0	0	0
-55.0	7	0	0	0	0
-65.0	0	0	0	0	0
-75.0	0	0	0	0	0
-85.0	0	0	0	0	0
-90.0	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1489.34

Total Field Lumens (one side of beam only) = 1145.12

\* 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	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
65	0.04	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.08
55	0.13	0.26	0.26	0.25	0.25	0.25	0.24	0.23	0.22	0.26
47.5	0.19	0.37	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.37
42.5	0.20	0.39	0.39	0.38	0.37	0.35	0.34	0.33	0.31	0.37
37.5	0.30	0.60	0.59	0.58	0.55	0.53	0.51	0.48	0.46	0.53
33	0.42	0.84	0.83	0.80	0.76	0.72	0.68	0.64	0.59	0.68
29	0.57	1.13	1.10	1.07	1.02	0.96	0.89	0.82	0.74	0.83
25.5	0.76	1.50	1.46	1.40	1.32	1.22	1.12	1.01	0.91	1.00
22.5	1.00	1.97	1.90	1.80	1.67	1.52	1.36	1.20	1.06	1.14
19.5	1.55 *	3.04 *	2.90 *	2.72 *	2.49	2.23	1.96	1.69	1.44	1.50
17	1.91 *	3.73 *	3.54 *	3.28 *	2.98 *	2.63 *	2.27 *	1.92	1.60	1.61
15	2.10 *	4.09 *	3.86 *	3.55 *	3.18 *	2.77 *	2.36 *	1.98 *	1.62	1.59
13	2.78 *	5.39 *	5.06 *	4.61 *	4.09 *	3.52 *	2.96 *	2.44 *	1.97 *	1.89
11	3.64 *	7.10 *	6.60 *	5.95 *	5.20 *	4.41 *	3.65 *	2.95 *	2.34 *	2.23 *
9	4.65 *	9.13 *	8.45 *	7.52 *	6.49 *	5.44 *	4.43 *	3.52 *	2.76 *	2.59 *
7	5.70 *	11.21 *	10.37 *	9.19 *	7.90 *	6.54 *	5.25 *	4.12 *	3.18 *	2.95 *
5	6.73 *	13.19 *	12.25 *	10.86 *	9.27 *	7.62 *	6.05 *	4.68 *	3.58 *	3.29 *
3	7.54 *	14.82 *	13.94 *	12.43 *	10.55 *	8.56 *	6.73 *	5.16 *	3.92 *	3.57 *
1	8.03 *	15.96 *	15.14 *	13.55 *	11.47 *	9.26 *	7.23 *	5.52 *	4.16 *	3.76 *
0	4.14 *	8.26 *	7.80 *	6.97 *	5.90 *	4.78 *	3.73 *	2.84 *	2.13 *	1.92 *
-1	4.14 *	8.26 *	7.80 *	6.97 *	5.90 *	4.78 *	3.73 *	2.84 *	2.13 *	1.92 *
	8.03 *	15.96 *	15.14 *	13.55 *	11.47 *	9.26 *	7.23 *	5.52 *	4.16 *	3.76 *



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	7.54 *	14.82 *	13.94 *	12.43 *	10.55 *	8.56 *	6.73 *	5.16 *	3.92 *	3.57 *
<b>-5</b>	6.73 *	13.19 *	12.25 *	10.86 *	9.27 *	7.62 *	6.05 *	4.68 *	3.58 *	3.29 *
<b>-7</b>	5.70 *	11.21 *	10.37 *	9.19 *	7.90 *	6.54 *	5.25 *	4.12 *	3.18 *	2.95 *
<b>-9</b>	4.65 *	9.13 *	8.45 *	7.52 *	6.49 *	5.44 *	4.43 *	3.52 *	2.76 *	2.59 *
<b>-11</b>	3.64 *	7.10 *	6.60 *	5.95 *	5.20 *	4.41 *	3.65 *	2.95 *	2.34 *	2.23 *
<b>-13</b>	2.78 *	5.39 *	5.06 *	4.61 *	4.09 *	3.52 *	2.96 *	2.44 *	1.97 *	1.89
<b>-15</b>	2.10 *	4.09 *	3.86 *	3.55 *	3.18 *	2.77 *	2.36 *	1.98 *	1.62	1.59
<b>-17</b>	1.91 *	3.73 *	3.54 *	3.28 *	2.98 *	2.63 *	2.27 *	1.92	1.60	1.61
<b>-19.5</b>	1.55 *	3.04 *	2.90 *	2.72 *	2.49	2.23	1.96	1.69	1.44	1.50
<b>-22.5</b>	1.00	1.97	1.90	1.80	1.67	1.52	1.36	1.20	1.06	1.14
<b>-25.5</b>	0.76	1.50	1.46	1.40	1.32	1.22	1.12	1.01	0.91	1.00
<b>-29</b>	0.57	1.13	1.10	1.07	1.02	0.96	0.89	0.82	0.74	0.83
<b>-33</b>	0.42	0.84	0.83	0.80	0.76	0.72	0.68	0.64	0.59	0.68
<b>-37.5</b>	0.30	0.60	0.59	0.58	0.55	0.53	0.51	0.48	0.46	0.53
<b>-42.5</b>	0.20	0.39	0.39	0.38	0.37	0.35	0.34	0.33	0.31	0.37
<b>-47.5</b>	0.19	0.37	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.37
<b>-55</b>	0.13	0.26	0.26	0.25	0.25	0.25	0.24	0.23	0.22	0.26
<b>-65</b>	0.04	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.08
<b>-75</b>	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
<b>-85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	104.77	206.11	193.76	174.71	151.75	127.51	104.34	83.89	66.76	64.34

**Vert. 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>
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.08	0.08	0.08	0.07	0.06	0.05	0.02	0.01	0.00	0.00
<b>65</b>	0.29	0.26	0.27	0.26	0.24	0.20	0.13	0.10	0.03	0.00
<b>55</b>	0.41	0.37	0.38	0.38	0.35	0.30	0.21	0.18	0.07	0.01

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>	0.40	0.36	0.37	0.36	0.33	0.28	0.20	0.18	0.08	0.01
<b>42.5</b>	0.57	0.50	0.49	0.47	0.42	0.36	0.26	0.23	0.12	0.02
<b>37.5</b>	0.72	0.62	0.60	0.54	0.47	0.39	0.28	0.26	0.14	0.02
<b>33</b>	0.87	0.73	0.70	0.62	0.51	0.41	0.29	0.27	0.14	0.02
<b>29</b>	1.02	0.84	0.79	0.68	0.55	0.41	0.28	0.26	0.14	0.02
<b>25.5</b>	1.14	0.91	0.83	0.70	0.55	0.40	0.27	0.24	0.13	0.02
<b>22.5</b>	1.43	1.11	0.99	0.81	0.62	0.45	0.29	0.26	0.14	0.03
<b>19.5</b>	1.47	1.10	0.96	0.77	0.57	0.41	0.26	0.23	0.13	0.02
<b>17</b>	1.40	1.02	0.86	0.68	0.50	0.34	0.22	0.20	0.11	0.02
<b>15</b>	1.64	1.15	0.95	0.74	0.53	0.37	0.23	0.20	0.11	0.02
<b>13</b>	1.89	1.30	1.04	0.80	0.57	0.39	0.24	0.21	0.11	0.02
<b>11</b>	2.16	1.45	1.14	0.86	0.61	0.41	0.25	0.21	0.12	0.02
<b>9</b>	2.43 *	1.60	1.23	0.91	0.64	0.43	0.26	0.22	0.12	0.02
<b>7</b>	2.68 *	1.73	1.30	0.95	0.66	0.44	0.27	0.22	0.12	0.02
<b>5</b>	2.88 *	1.84	1.37	0.98	0.67	0.45	0.27	0.23	0.12	0.02
<b>3</b>	3.02 *	1.92	1.41	1.00	0.68	0.46	0.28	0.23	0.12	0.02
<b>1</b>	1.54 *	0.98	0.72	0.50	0.34	0.23	0.14	0.11	0.06	0.01
<b>0</b>	1.54 *	0.98	0.72	0.50	0.34	0.23	0.14	0.11	0.06	0.01
<b>-1</b>	3.02 *	1.92	1.41	1.00	0.68	0.46	0.28	0.23	0.12	0.02
<b>-3</b>	2.88 *	1.84	1.37	0.98	0.67	0.45	0.27	0.23	0.12	0.02
<b>-5</b>	2.68 *	1.73	1.30	0.95	0.66	0.44	0.27	0.22	0.12	0.02
<b>-7</b>	2.43 *	1.60	1.23	0.91	0.64	0.43	0.26	0.22	0.12	0.02
<b>-9</b>	2.16	1.45	1.14	0.86	0.61	0.41	0.25	0.21	0.12	0.02
<b>-11</b>	1.89	1.30	1.04	0.80	0.57	0.39	0.24	0.21	0.11	0.02
<b>-13</b>	1.64	1.15	0.95	0.74	0.53	0.37	0.23	0.20	0.11	0.02
<b>-15</b>	1.40	1.02	0.86	0.68	0.50	0.34	0.22	0.20	0.11	0.02
<b>-17</b>	1.47	1.10	0.96	0.77	0.57	0.41	0.26	0.23	0.13	0.02
<b>-19.5</b>	1.43	1.11	0.99	0.81	0.62	0.45	0.29	0.26	0.14	0.03

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	1.14	0.91	0.83	0.70	0.55	0.40	0.27	0.24	0.13	0.02
<b>-25.5</b>	1.02	0.84	0.79	0.68	0.55	0.41	0.28	0.26	0.14	0.02
<b>-29</b>	0.87	0.73	0.70	0.62	0.51	0.41	0.29	0.27	0.14	0.02
<b>-33</b>	0.72	0.62	0.60	0.54	0.47	0.39	0.28	0.26	0.14	0.02
<b>-37.5</b>	0.57	0.50	0.49	0.47	0.42	0.36	0.26	0.23	0.12	0.02
<b>-42.5</b>	0.40	0.36	0.37	0.36	0.33	0.28	0.20	0.18	0.08	0.01
<b>-47.5</b>	0.41	0.37	0.38	0.38	0.35	0.30	0.21	0.18	0.07	0.01
<b>-55</b>	0.29	0.26	0.27	0.26	0.24	0.20	0.13	0.10	0.03	0.00
<b>-65</b>	0.08	0.08	0.08	0.07	0.06	0.05	0.02	0.01	0.00	0.00
<b>-75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>-90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	56.12	39.73	32.92	26.15	19.76	14.32	9.29	8.13	4.24	0.71

<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>	0.00	0.00	0.00	
<b>85</b>	0.00	0.00	0.05	
<b>75</b>	0.00	0.00	1.15	
<b>65</b>	0.00	0.00	4.11	
<b>55</b>	0.00	0.00	6.01	
<b>47.5</b>	0.00	0.00	6.01	
<b>42.5</b>	0.00	0.00	8.57	
<b>37.5</b>	0.00	0.00	10.98	
<b>33</b>	0.00	0.00	13.70	
<b>29</b>	0.00	0.00	16.70	
<b>25.5</b>	0.00	0.00	19.83	
<b>22.5</b>	0.00	0.00	27.66	
<b>19.5</b>	0.00	0.00	31.41	
<b>17</b>	0.00	0.00	32.43	

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

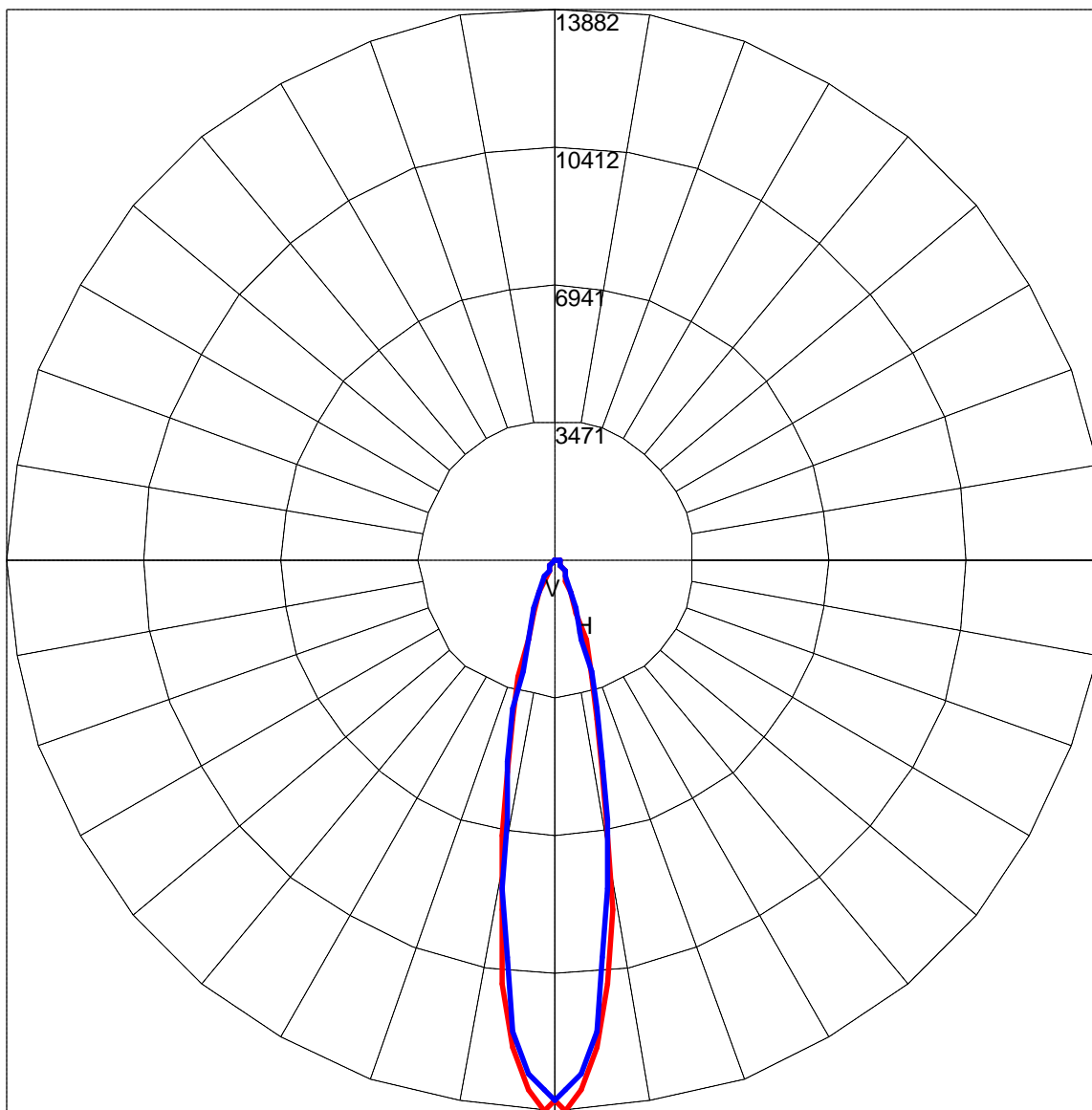
<b>15</b>	0.00	0.00	40.64
<b>13</b>	0.00	0.00	50.67
<b>11</b>	0.00	0.00	62.21
<b>9</b>	0.00	0.00	74.26
<b>7</b>	0.00	0.00	85.92
<b>5</b>	0.00	0.00	96.06
<b>3</b>	0.00	0.00	103.21
<b>1</b>	0.00	0.00	53.11
<b>0</b>	0.00	0.00	53.11
<b>-1</b>	0.00	0.00	103.21
<b>-3</b>	0.00	0.00	96.06
<b>-5</b>	0.00	0.00	85.92
<b>-7</b>	0.00	0.00	74.26
<b>-9</b>	0.00	0.00	62.21
<b>-11</b>	0.00	0.00	50.67
<b>-13</b>	0.00	0.00	40.64
<b>-15</b>	0.00	0.00	32.43
<b>-17</b>	0.00	0.00	31.41
<b>-19.5</b>	0.00	0.00	27.66
<b>-22.5</b>	0.00	0.00	19.83
<b>-25.5</b>	0.00	0.00	16.70
<b>-29</b>	0.00	0.00	13.70
<b>-33</b>	0.00	0.00	10.98
<b>-37.5</b>	0.00	0.00	8.57
<b>-42.5</b>	0.00	0.00	6.01
<b>-47.5</b>	0.00	0.00	6.01
<b>-55</b>	0.00	0.00	4.11
<b>-65</b>	0.00	0.00	1.15

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : XFLM-NF-LED-28-HO-NW.IES**

**LUMENS TABULATION - (Cont.)**

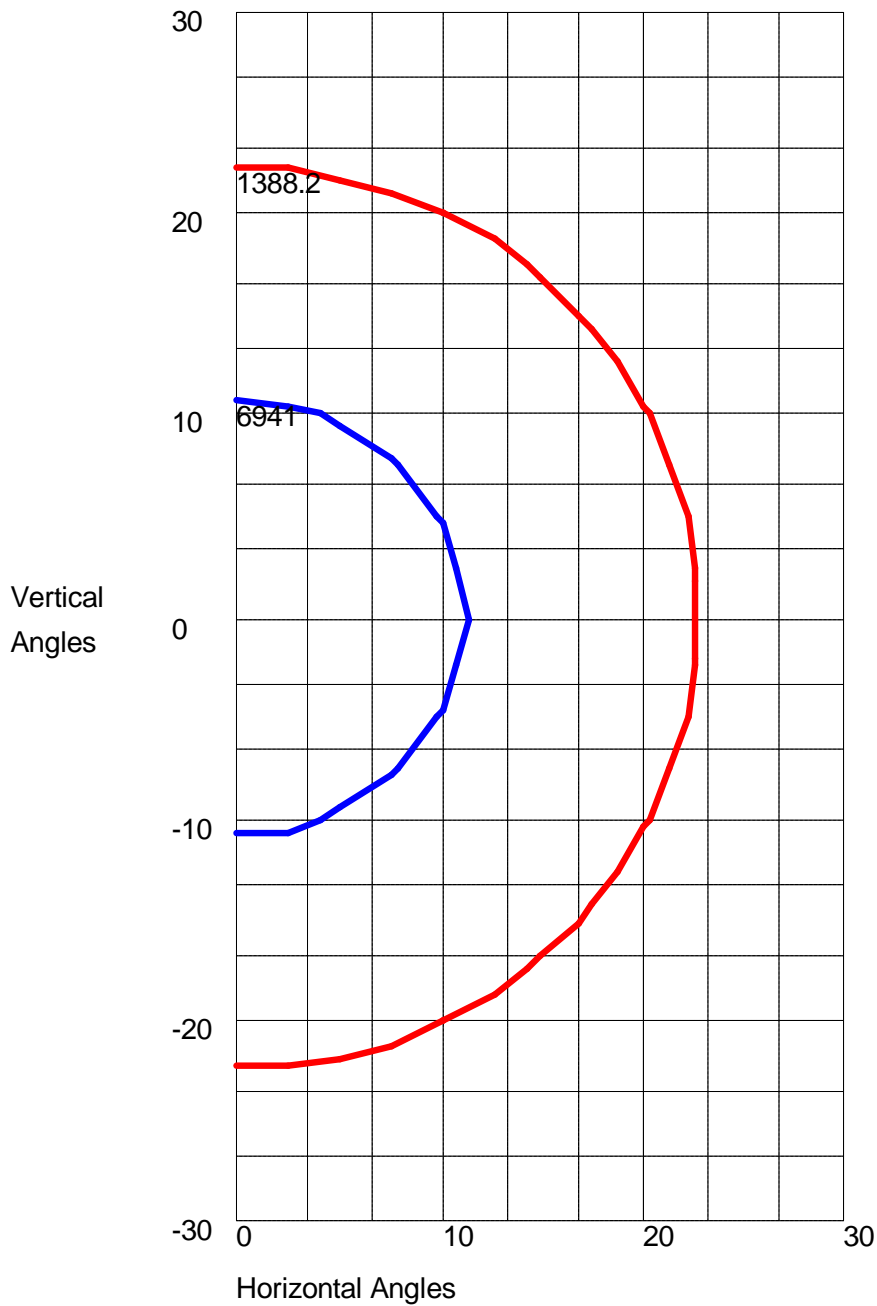
<b>-75</b>	0.00	0.00	0.05
<b>-85</b>	0.00	0.00	0.00
<b>-90</b>			
<b>Total</b>	0.00	0.00	1489.34

AXIAL CANDELA DISPLAY



Maximum Candela = 13882 Located At Horizontal Angle = -1, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 13882 Located At Horizontal Angle = -1, Vertical Angle = 0  
50% Maximum Candela = 6941  
10% Maximum Candela = 1388.2