



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5277
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/12/14
[TEST DATE]03/12/14
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XFLM-SP-LED-28-HO-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]3465
[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	29965
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	16.5
Vertical Beam Angle (50%)	13.5
Horizontal Field Angle (10%)	34.9
Vertical Field Angle (10%)	31.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1104
Beam Efficiency	N.A.
Field Lumens	2523
Field Efficiency	N.A.
Spill Lumens	950
Luminaire Lumens	3473
Total Efficiency	N.A.
Total Luminaire Watts	38.5
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	14
75	0	75	9
65	0	65	5
55	19	55	49
47.5	61	47.5	68
42.5	87	42.5	99
37.5	144	37.5	155
33	197	33	193
29	355	29	306
25.5	673	25.5	520
22.5	1212	22.5	865
19.5	2054	19.5	1511
17	3217	17	2426
15	4554	15	3483
13	6587	13	5010
11	9437	11	7159
9	13176	9	10070
7	18064	7	14440
5	23401	5	19737
3	28087	3	25510
1	29965	1	28934
0	29353	0	29353
-1	29965	-1	28934
-3	28087	-3	25510
-5	23401	-5	19737
-7	18064	-7	14440
-9	13176	-9	10070
-11	9437	-11	7159
-13	6587	-13	5010
-15	4554	-15	3483
-17	3217	-17	2426
-19.5	2054	-19.5	1511
-22.5	1212	-22.5	865
-25.5	673	-25.5	520
-29	355	-29	306
-33	197	-33	193
-37.5	144	-37.5	155
-42.5	87	-42.5	99
-47.5	61	-47.5	68
-55	19	-55	49
-65	0	-65	5
-75	0	-75	9
-85	0	-85	14
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 29965

Beam Edge = 14982.5 Cd (50% of Max.)

Field Edge = 2996.5 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	7	0	34	26	15	14	15	11	5
75.0	0	20	2	5	24	13	7	20	28	17
65.0	0	31	3	13	32	31	28	38	49	34
55.0	0	31	4	9	36	29	34	37	47	54
47.5	0	26	5	7	34	37	58	36	42	65
42.5	0	23	6	5	42	63	48	61	83	88
37.5	0	20	9	2	27	41	72	85	85	95
33.0	0	17	11	3	32	48	88	84	103	116
29.0	0	15	13	9	34	64	103	99	120	144
25.5	0	13	15	16	23	77	102	112	138	166
22.5	0	11	17	21	17	76	90	114	157	190
19.5	0	10	19	26	24	73	87	125	166	216
17.0	0	9	18	30	31	66	85	131	178	239
15.0	0	7	16	33	37	68	82	130	181	259
13.0	0	6	14	36	44	72	87	125	180	273
11.0	0	5	12	39	51	77	100	129	177	286
9.0	0	4	10	33	58	83	114	147	186	298
7.0	0	3	8	25	65	90	130	164	206	331
5.0	0	2	6	18	51	93	145	180	225	366
3.0	0	1	3	11	39	80	129	180	237	396
1.0	0	0	1	4	26	67	101	156	211	373
0.0	0	0	0	0	19	61	87	144	197	355
-1.0	0	0	1	4	26	67	101	156	211	373
-3.0	0	1	3	11	39	80	129	180	237	396
-5.0	0	2	6	18	51	93	145	180	225	366
-7.0	0	3	8	25	65	90	130	164	206	331
-9.0	0	4	10	33	58	83	114	147	186	298
-11.0	0	5	12	39	51	77	100	129	177	286
-13.0	0	6	14	36	44	72	87	125	180	273
-15.0	0	7	16	33	37	68	82	130	181	259
-17.0	0	9	18	30	31	66	85	131	178	239
-19.5	0	10	19	26	24	73	87	125	166	216
-22.5	0	11	17	21	17	76	90	114	157	190
-25.5	0	13	15	16	23	77	102	112	138	166
-29.0	0	15	13	9	34	64	103	99	120	144
-33.0	0	17	11	3	32	48	88	84	103	116
-37.5	0	20	9	2	27	41	72	85	85	95
-42.5	0	23	6	5	42	63	48	61	83	88
-47.5	0	26	5	7	34	37	58	36	42	65
-55.0	0	31	4	9	36	29	34	37	47	54
-65.0	0	31	3	13	32	31	28	38	49	34
-75.0	0	20	2	5	24	13	7	20	28	17
-85.0	0	7	0	34	26	15	14	15	11	5
-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	1	6	13	19	24	24	24	24	24	24
75.0	5	6	17	27	36	36	33	30	27	24
65.0	22	16	20	24	28	31	35	39	44	48
55.0	46	40	42	47	50	51	51	50	51	53
47.5	86	78	60	63	75	85	94	93	93	94
42.5	93	83	80	89	102	113	126	129	127	125
37.5	98	107	116	122	132	141	151	160	159	156
33.0	139	160	161	154	154	166	184	198	202	201
29.0	168	175	184	200	211	234	260	283	296	300
25.5	185	204	246	294	321	350	396	447	482	502
22.5	221	264	328	401	466	537	616	694	764	821
19.5	275	348	469	590	718	852	1001	1141	1289	1401
17.0	326	455	628	824	1021	1254	1473	1747	1988	2210
15.0	368	545	795	1067	1365	1646	2031	2414	2780	3134 *
13.0	423	652	971	1360	1721	2169	2708	3279 *	3837 *	4366 *
11.0	483	759	1179	1664	2183	2809	3697 *	4446 *	5452 *	6175 *
9.0	537	864	1389	2000	2671	3569 *	4724 *	6043 *	7490 *	8658 *
7.0	580	955	1566	2327	3247 *	4459 *	5973 *	7875 *	9937 *	11977 *
5.0	636	1053	1743	2635	3710 *	5257 *	7398 *	9851 *	12715 *	15757 *
3.0	691	1145	1964	2973	4213 *	6004 *	8487 *	11642 *	15428 *	19634 *
1.0	690	1200	2072	3220 *	4552 *	6548 *	9367 *	13010 *	17705 *	22927 *
0.0	673	1212	2054	3217 *	4554 *	6587 *	9437 *	13176 *	18064 *	23401 *
-1.0	690	1200	2072	3220 *	4552 *	6548 *	9367 *	13010 *	17705 *	22927 *
-3.0	691	1145	1964	2973	4213 *	6004 *	8487 *	11642 *	15428 *	19634 *
-5.0	636	1053	1743	2635	3710 *	5257 *	7398 *	9851 *	12715 *	15757 *
-7.0	580	955	1566	2327	3247 *	4459 *	5973 *	7875 *	9937 *	11977 *
-9.0	537	864	1389	2000	2671	3569 *	4724 *	6043 *	7490 *	8658 *
-11.0	483	759	1179	1664	2183	2809	3697 *	4446 *	5452 *	6175 *
-13.0	423	652	971	1360	1721	2169	2708	3279 *	3837 *	4366 *
-15.0	368	545	795	1067	1365	1646	2031	2414	2780	3134 *
-17.0	326	455	628	824	1021	1254	1473	1747	1988	2210
-19.5	275	348	469	590	718	852	1001	1141	1289	1401
-22.5	221	264	328	401	466	537	616	694	764	821
-25.5	185	204	246	294	321	350	396	447	482	502
-29.0	168	175	184	200	211	234	260	283	296	300
-33.0	139	160	161	154	154	166	184	198	202	201
-37.5	98	107	116	122	132	141	151	160	159	156
-42.5	93	83	80	89	102	113	126	129	127	125
-47.5	86	78	60	63	75	85	94	93	93	94
-55.0	46	40	42	47	50	51	51	50	51	53
-65.0	22	16	20	24	28	31	35	39	44	48
-75.0	5	6	17	27	36	36	33	30	27	24
-85.0	1	6	13	19	24	24	24	24	24	24
-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	20	16	14	16	20	24	24	24	24	24
75.0	18	12	9	12	18	24	27	30	33	36
65.0	34	15	5	15	34	48	44	39	35	31

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CANDELA TABULATION - (Cont.)

55.0	53	50	49	50	53	53	51	50	51	51
47.5	89	75	68	75	89	94	93	93	94	85
42.5	122	107	99	107	122	125	127	129	126	113
37.5	153	154	155	154	153	156	159	160	151	141
33.0	200	196	193	196	200	201	202	198	184	166
29.0	305	308	306	308	305	300	296	283	260	234
25.5	518	521	520	521	518	502	482	447	396	350
22.5	866	875	865	875	866	821	764	694	616	537
19.5	1484	1518	1511	1518	1484	1401	1289	1141	1001	852
17.0	2370	2445	2426	2445	2370	2210	1988	1747	1473	1254
15.0	3392 *	3501 *	3483 *	3501 *	3392 *	3134 *	2780	2414	2031	1646
13.0	4822 *	5041 *	5010 *	5041 *	4822 *	4366 *	3837 *	3279 *	2708	2169
11.0	6839 *	7171 *	7159 *	7171 *	6839 *	6175 *	5452 *	4446 *	3697 *	2809
9.0	9577 *	10102 *	10070 *	10102 *	9577 *	8658 *	7490 *	6043 *	4724 *	3569 *
7.0	13281 *	14381 *	14440 *	14381 *	13281 *	11977 *	9937 *	7875 *	5973 *	4459 *
5.0	18185 *	19494 *	19737 *	19494 *	18185 *	15757 *	12715 *	9851 *	7398 *	5257 *
3.0	23202 *	25303 *	25510 *	25303 *	23202 *	19634 *	15428 *	11642 *	8487 *	6004 *
1.0	27159 *	29144 *	28934 *	29144 *	27159 *	22927 *	17705 *	13010 *	9367 *	6548 *
0.0	28087 *	29965 *	29353 *	29965 *	28087 *	23401 *	18064 *	13176 *	9437 *	6587 *
-1.0	27159 *	29144 *	28934 *	29144 *	27159 *	22927 *	17705 *	13010 *	9367 *	6548 *
-3.0	23202 *	25303 *	25510 *	25303 *	23202 *	19634 *	15428 *	11642 *	8487 *	6004 *
-5.0	18185 *	19494 *	19737 *	19494 *	18185 *	15757 *	12715 *	9851 *	7398 *	5257 *
-7.0	13281 *	14381 *	14440 *	14381 *	13281 *	11977 *	9937 *	7875 *	5973 *	4459 *
-9.0	9577 *	10102 *	10070 *	10102 *	9577 *	8658 *	7490 *	6043 *	4724 *	3569 *
-11.0	6839 *	7171 *	7159 *	7171 *	6839 *	6175 *	5452 *	4446 *	3697 *	2809
-13.0	4822 *	5041 *	5010 *	5041 *	4822 *	4366 *	3837 *	3279 *	2708	2169
-15.0	3392 *	3501 *	3483 *	3501 *	3392 *	3134 *	2780	2414	2031	1646
-17.0	2370	2445	2426	2445	2370	2210	1988	1747	1473	1254
-19.5	1484	1518	1511	1518	1484	1401	1289	1141	1001	852
-22.5	866	875	865	875	866	821	764	694	616	537
-25.5	518	521	520	521	518	502	482	447	396	350
-29.0	305	308	306	308	305	300	296	283	260	234
-33.0	200	196	193	196	200	201	202	198	184	166
-37.5	153	154	155	154	153	156	159	160	151	141
-42.5	122	107	99	107	122	125	127	129	126	113
-47.5	89	75	68	75	89	94	93	93	94	85
-55.0	53	50	49	50	53	53	51	50	51	51
-65.0	34	15	5	15	34	48	44	39	35	31
-75.0	18	12	9	12	18	24	27	30	33	36
-85.0	20	16	14	16	20	24	24	24	24	24
-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	24	19	13	6	1	5	11	15	14	15
75.0	36	27	17	6	5	17	28	20	7	13
65.0	28	24	20	16	22	34	49	38	28	31
55.0	50	47	42	40	46	54	47	37	34	29
47.5	75	63	60	78	86	65	42	36	58	37
42.5	102	89	80	83	93	88	83	61	48	63
37.5	132	122	116	107	98	95	85	85	72	41
33.0	154	154	161	160	139	116	103	84	88	48
29.0	211	200	184	175	168	144	120	99	103	64
25.5	321	294	246	204	185	166	138	112	102	77

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CANDELA TABULATION - (Cont.)

22.5	466	401	328	264	221	190	157	114	90	76
19.5	718	590	469	348	275	216	166	125	87	73
17.0	1021	824	628	455	326	239	178	131	85	66
15.0	1365	1067	795	545	368	259	181	130	82	68
13.0	1721	1360	971	652	423	273	180	125	87	72
11.0	2183	1664	1179	759	483	286	177	129	100	77
9.0	2671	2000	1389	864	537	298	186	147	114	83
7.0	3247 *	2327	1566	955	580	331	206	164	130	90
5.0	3710 *	2635	1743	1053	636	366	225	180	145	93
3.0	4213 *	2973	1964	1145	691	396	237	180	129	80
1.0	4552 *	3220 *	2072	1200	690	373	211	156	101	67
0.0	4554 *	3217 *	2054	1212	673	355	197	144	87	61
-1.0	4552 *	3220 *	2072	1200	690	373	211	156	101	67
-3.0	4213 *	2973	1964	1145	691	396	237	180	129	80
-5.0	3710 *	2635	1743	1053	636	366	225	180	145	93
-7.0	3247 *	2327	1566	955	580	331	206	164	130	90
-9.0	2671	2000	1389	864	537	298	186	147	114	83
-11.0	2183	1664	1179	759	483	286	177	129	100	77
-13.0	1721	1360	971	652	423	273	180	125	87	72
-15.0	1365	1067	795	545	368	259	181	130	82	68
-17.0	1021	824	628	455	326	239	178	131	85	66
-19.5	718	590	469	348	275	216	166	125	87	73
-22.5	466	401	328	264	221	190	157	114	90	76
-25.5	321	294	246	204	185	166	138	112	102	77
-29.0	211	200	184	175	168	144	120	99	103	64
-33.0	154	154	161	160	139	116	103	84	88	48
-37.5	132	122	116	107	98	95	85	85	72	41
-42.5	102	89	80	83	93	88	83	61	48	63
-47.5	75	63	60	78	86	65	42	36	58	37
-55.0	50	47	42	40	46	54	47	37	34	29
-65.0	28	24	20	16	22	34	49	38	28	31
-75.0	36	27	17	6	5	17	28	20	7	13
-85.0	24	19	13	6	1	5	11	15	14	15
-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	26	34	0	7	0
75.0	24	5	2	20	0
65.0	32	13	3	31	0
55.0	36	9	4	31	0
47.5	34	7	5	26	0
42.5	42	5	6	23	0
37.5	27	2	9	20	0
33.0	32	3	11	17	0
29.0	34	9	13	15	0
25.5	23	16	15	13	0
22.5	17	21	17	11	0
19.5	24	26	19	10	0
17.0	31	30	18	9	0
15.0	37	33	16	7	0
13.0	44	36	14	6	0
11.0	51	39	12	5	0
9.0	58	33	10	4	0

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CANDELA TABULATION - (Cont.)

7.0	65	25	8	3	0
5.0	51	18	6	2	0
3.0	39	11	3	1	0
1.0	26	4	1	0	0
0.0	19	0	0	0	0
-1.0	26	4	1	0	0
-3.0	39	11	3	1	0
-5.0	51	18	6	2	0
-7.0	65	25	8	3	0
-9.0	58	33	10	4	0
-11.0	51	39	12	5	0
-13.0	44	36	14	6	0
-15.0	37	33	16	7	0
-17.0	31	30	18	9	0
-19.5	24	26	19	10	0
-22.5	17	21	17	11	0
-25.5	23	16	15	13	0
-29.0	34	9	13	15	0
-33.0	32	3	11	17	0
-37.5	27	2	9	20	0
-42.5	42	5	6	23	0
-47.5	34	7	5	26	0
-55.0	36	9	4	31	0
-65.0	32	13	3	31	0
-75.0	24	5	2	20	0
-85.0	26	34	0	7	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) = 1736.61

Total Field Lumens (one side of beam only) = 1261.49

* 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	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03
75	0.04	0.10	0.13	0.15	0.16	0.17	0.17	0.18	0.16	0.14
65	0.03	0.12	0.19	0.22	0.21	0.21	0.20	0.19	0.17	0.16
55	0.09	0.23	0.29	0.30	0.28	0.26	0.25	0.24	0.22	0.24
47.5	0.14	0.30	0.33	0.33	0.32	0.32	0.31	0.29	0.26	0.29
42.5	0.13	0.30	0.33	0.33	0.33	0.33	0.31	0.28	0.24	0.26
37.5	0.20	0.41	0.42	0.43	0.43	0.42	0.40	0.36	0.33	0.37
33	0.24	0.48	0.49	0.49	0.49	0.47	0.43	0.39	0.37	0.45
29	0.31	0.61	0.61	0.61	0.59	0.55	0.50	0.45	0.42	0.51
25.5	0.44	0.88	0.86	0.84	0.80	0.73	0.65	0.58	0.53	0.58
22.5	0.64	1.27	1.23	1.17	1.08	0.97	0.85	0.74	0.65	0.69
19.5	1.09	2.17	2.08	1.94	1.76	1.55	1.34	1.14	0.96	0.97
17	1.50	2.97	2.84	2.61	2.32	2.01	1.71	1.42	1.15	1.13
15	1.81	3.56	3.37	3.06	2.69	2.30	1.91	1.56	1.25	1.20
13	2.59 *	5.10 *	4.77 *	4.28 *	3.71 *	3.13	2.55	2.04	1.61	1.52
11	3.71 *	7.27 *	6.75 *	6.01 *	5.13 *	4.24 *	3.39	2.63	2.03	1.87
9	5.25 *	10.26 *	9.50 *	8.41 *	7.07 *	5.67 *	4.41 *	3.32	2.49	2.25
7	7.46 *	14.41 *	13.22 *	11.53 *	9.45 *	7.38 *	5.58 *	4.12 *	3.00	2.63
5	10.36 *	19.89 *	17.99 *	15.26 *	12.18 *	9.33 *	6.88 *	4.93 *	3.49	2.99
3	13.71 *	26.24 *	23.33 *	19.25 *	14.97 *	11.21 *	8.09 *	5.67 *	3.96 *	3.37
1	16.58 *	31.91 *	28.24 *	22.93 *	17.43 *	12.75 *	9.06 *	6.30 *	4.38 *	3.70
0	8.94 *	17.41 *	15.43 *	12.43 *	9.34 *	6.75 *	4.76 *	3.29 *	2.28 *	1.91
-1	8.94 *	17.41 *	15.43 *	12.43 *	9.34 *	6.75 *	4.76 *	3.29 *	2.28 *	1.91
	16.58 *	31.91 *	28.24 *	22.93 *	17.43 *	12.75 *	9.06 *	6.30 *	4.38 *	3.70

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

LUMENS TABULATION - (Cont.)

-3	13.71 *	26.24 *	23.33 *	19.25 *	14.97 *	11.21 *	8.09 *	5.67 *	3.96 *	3.37
-5	10.36 *	19.89 *	17.99 *	15.26 *	12.18 *	9.33 *	6.88 *	4.93 *	3.49	2.99
-7	7.46 *	14.41 *	13.22 *	11.53 *	9.45 *	7.38 *	5.58 *	4.12 *	3.00	2.63
-9	5.25 *	10.26 *	9.50 *	8.41 *	7.07 *	5.67 *	4.41 *	3.32	2.49	2.25
-11	3.71 *	7.27 *	6.75 *	6.01 *	5.13 *	4.24 *	3.39	2.63	2.03	1.87
-13	2.59 *	5.10 *	4.77 *	4.28 *	3.71 *	3.13	2.55	2.04	1.61	1.52
-15	1.81	3.56	3.37	3.06	2.69	2.30	1.91	1.56	1.25	1.20
-17	1.50	2.97	2.84	2.61	2.32	2.01	1.71	1.42	1.15	1.13
-19.5	1.09	2.17	2.08	1.94	1.76	1.55	1.34	1.14	0.96	0.97
-22.5	0.64	1.27	1.23	1.17	1.08	0.97	0.85	0.74	0.65	0.69
-25.5	0.44	0.88	0.86	0.84	0.80	0.73	0.65	0.58	0.53	0.58
-29	0.31	0.61	0.61	0.61	0.59	0.55	0.50	0.45	0.42	0.51
-33	0.24	0.48	0.49	0.49	0.49	0.47	0.43	0.39	0.37	0.45
-37.5	0.20	0.41	0.42	0.43	0.43	0.42	0.40	0.36	0.33	0.37
-42.5	0.13	0.30	0.33	0.33	0.33	0.33	0.31	0.28	0.24	0.26
-47.5	0.14	0.30	0.33	0.33	0.32	0.32	0.31	0.29	0.26	0.29
-55	0.09	0.23	0.29	0.30	0.28	0.26	0.25	0.24	0.22	0.24
-65	0.03	0.12	0.19	0.22	0.21	0.21	0.20	0.19	0.17	0.16
-75	0.04	0.10	0.13	0.15	0.16	0.17	0.17	0.18	0.16	0.14
-85	0.01	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03
-90										
Total	150.57	291.83	264.85	225.22	181.60	141.59	107.56	80.30	59.94	54.52

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										
	0.02	0.01	0.01	0.02	0.04	0.04	0.04	0.07	0.11	0.04
85										
	0.09	0.04	0.07	0.16	0.21	0.16	0.13	0.28	0.34	0.11
75										
	0.13	0.10	0.18	0.33	0.38	0.27	0.21	0.36	0.28	0.06
65										
	0.25	0.26	0.37	0.48	0.48	0.40	0.33	0.46	0.34	0.08
55										
	0.35	0.39	0.45	0.41	0.34	0.36	0.32	0.36	0.25	0.05

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	0.32	0.35	0.39	0.36	0.31	0.30	0.28	0.31	0.17	0.03
42.5										
	0.41	0.40	0.44	0.46	0.44	0.39	0.30	0.31	0.14	0.03
37.5										
	0.52	0.47	0.48	0.47	0.45	0.43	0.30	0.24	0.11	0.03
33										
	0.58	0.54	0.54	0.50	0.45	0.44	0.33	0.25	0.12	0.04
29										
	0.60	0.53	0.55	0.52	0.46	0.42	0.33	0.25	0.11	0.05
25.5										
	0.67	0.55	0.54	0.51	0.44	0.37	0.28	0.21	0.09	0.05
22.5										
	0.90	0.69	0.64	0.57	0.47	0.36	0.26	0.20	0.10	0.06
19.5										
	1.01	0.73	0.63	0.52	0.42	0.31	0.21	0.17	0.11	0.06
17										
	1.03	0.71	0.56	0.45	0.35	0.25	0.16	0.14	0.10	0.05
15										
	1.26	0.83	0.63	0.47	0.34	0.25	0.17	0.16	0.11	0.05
13										
	1.52	0.97	0.69	0.48	0.34	0.26	0.18	0.17	0.13	0.05
11										
	1.79	1.10	0.76	0.49	0.36	0.29	0.20	0.19	0.14	0.05
9										
	2.04	1.23	0.83	0.53	0.39	0.32	0.22	0.21	0.14	0.04
7										
	2.27	1.35	0.91	0.59	0.43	0.36	0.25	0.21	0.12	0.03
5										
	2.52	1.47	0.99	0.64	0.46	0.37	0.24	0.19	0.09	0.02
3										
	2.72	1.56	1.02	0.64	0.44	0.33	0.20	0.15	0.06	0.01
1										
	1.39	0.79	0.50	0.30	0.20	0.14	0.09	0.06	0.02	0.00
0										
	1.39	0.79	0.50	0.30	0.20	0.14	0.09	0.06	0.02	0.00
-1										
	2.72	1.56	1.02	0.64	0.44	0.33	0.20	0.15	0.06	0.01
-3										
	2.52	1.47	0.99	0.64	0.46	0.37	0.24	0.19	0.09	0.02
-5										
	2.27	1.35	0.91	0.59	0.43	0.36	0.25	0.21	0.12	0.03
-7										
	2.04	1.23	0.83	0.53	0.39	0.32	0.22	0.21	0.14	0.04
-9										
	1.79	1.10	0.76	0.49	0.36	0.29	0.20	0.19	0.14	0.05
-11										
	1.52	0.97	0.69	0.48	0.34	0.26	0.18	0.17	0.13	0.05
-13										
	1.26	0.83	0.63	0.47	0.34	0.25	0.17	0.16	0.11	0.05
-15										
	1.03	0.71	0.56	0.45	0.35	0.25	0.16	0.14	0.10	0.05
-17										
	1.01	0.73	0.63	0.52	0.42	0.31	0.21	0.17	0.11	0.06
-19.5										
	0.90	0.69	0.64	0.57	0.47	0.36	0.26	0.20	0.10	0.06

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

LUMENS TABULATION - (Cont.)

-22.5	0.67	0.55	0.54	0.51	0.44	0.37	0.28	0.21	0.09	0.05
-25.5	0.60	0.53	0.55	0.52	0.46	0.42	0.33	0.25	0.11	0.05
-29	0.58	0.54	0.54	0.50	0.45	0.44	0.33	0.25	0.12	0.04
-33	0.52	0.47	0.48	0.47	0.45	0.43	0.30	0.24	0.11	0.03
-37.5	0.41	0.40	0.44	0.46	0.44	0.39	0.30	0.31	0.14	0.03
-42.5	0.32	0.35	0.39	0.36	0.31	0.30	0.28	0.31	0.17	0.03
-47.5	0.35	0.39	0.45	0.41	0.34	0.36	0.32	0.36	0.25	0.05
-55	0.25	0.26	0.37	0.48	0.48	0.40	0.33	0.46	0.34	0.08
-65	0.13	0.10	0.18	0.33	0.38	0.27	0.21	0.36	0.28	0.06
-75	0.09	0.04	0.07	0.16	0.21	0.16	0.13	0.28	0.34	0.11
-85	0.02	0.01	0.01	0.02	0.04	0.04	0.04	0.07	0.11	0.04
-90	0.02	0.01	0.01	0.02	0.04	0.04	0.04	0.07	0.11	0.04
Total	44.80	30.12	24.33	19.79	16.39	13.64	10.05	9.95	6.35	1.98

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.00	0.00	0.72	
85				
	0.04	0.00	3.01	
75				
	0.07	0.01	4.08	
65				
	0.09	0.01	5.93	
55				
	0.07	0.01	6.25	
47.5				
	0.04	0.00	5.72	
42.5				
	0.04	0.00	7.13	
37.5				
	0.03	0.00	7.83	
33				
	0.03	0.00	8.98	
29				
	0.03	0.00	10.73	
25.5				
	0.02	0.00	13.00	
22.5				
	0.02	0.00	19.30	
19.5				
	0.02	0.00	23.86	
17				
	0.01	0.00	26.54	

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

LUMENS TABULATION - (Cont.)

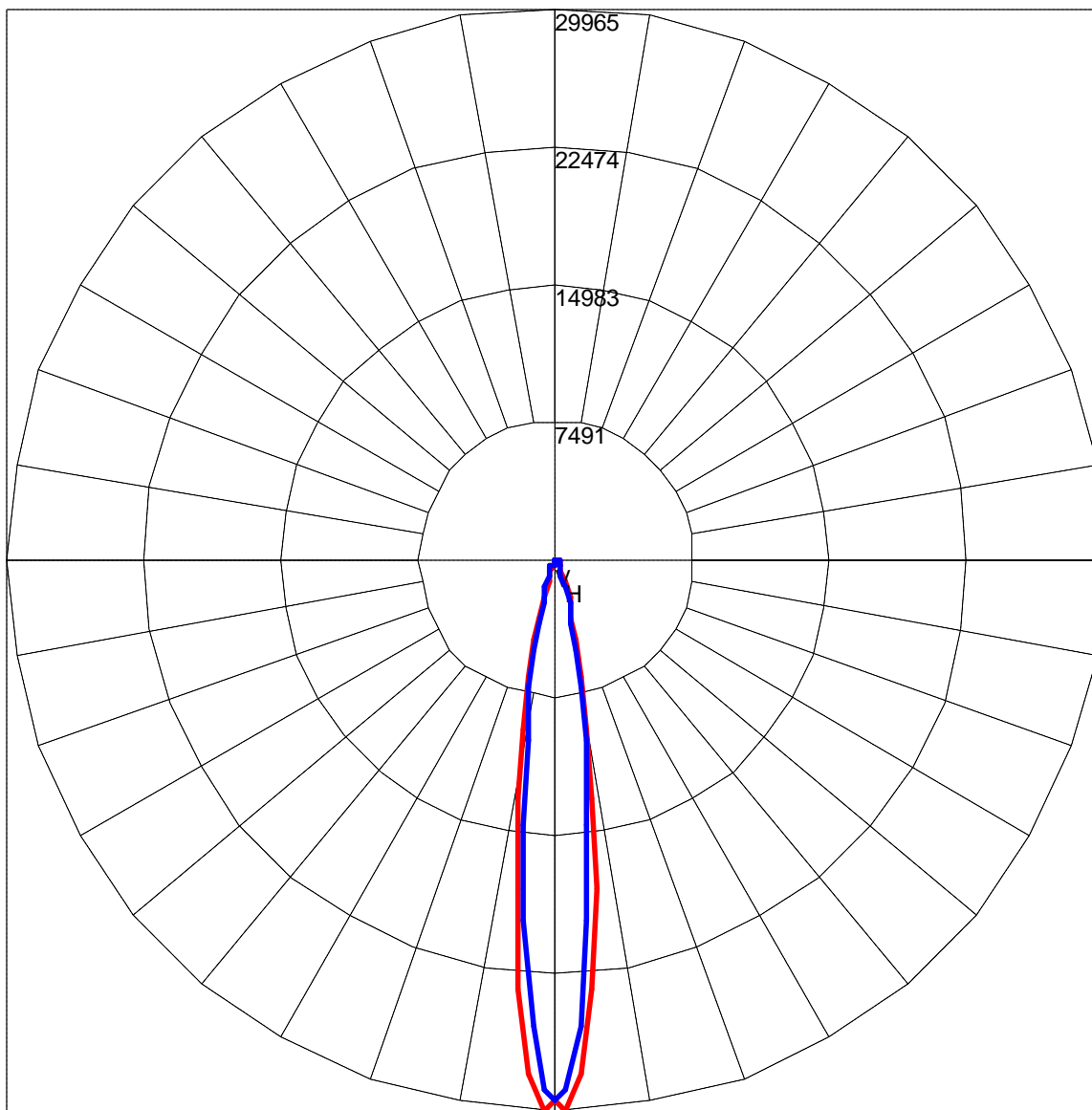
15	0.01	0.00	35.59
13	0.01	0.00	47.83
11	0.01	0.00	64.01
9	0.01	0.00	84.75
7	0.01	0.00	109.82
5	0.00	0.00	136.79
3	0.00	0.00	160.40
1	0.00	0.00	86.02
0	0.00	0.00	86.02
-1	0.00	0.00	160.40
-3	0.00	0.00	136.79
-5	0.01	0.00	109.82
-7	0.01	0.00	84.75
-9	0.01	0.00	64.01
-11	0.01	0.00	47.83
-13	0.01	0.00	35.59
-15	0.01	0.00	26.54
-17	0.02	0.00	23.86
-19.5	0.02	0.00	19.30
-22.5	0.02	0.00	13.00
-25.5	0.03	0.00	10.73
-29	0.03	0.00	8.98
-33	0.03	0.00	7.83
-37.5	0.04	0.00	7.13
-42.5	0.04	0.00	5.72
-47.5	0.07	0.01	6.25
-55	0.09	0.01	5.93
-65	0.07	0.01	4.08

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

LUMENS TABULATION - (Cont.)

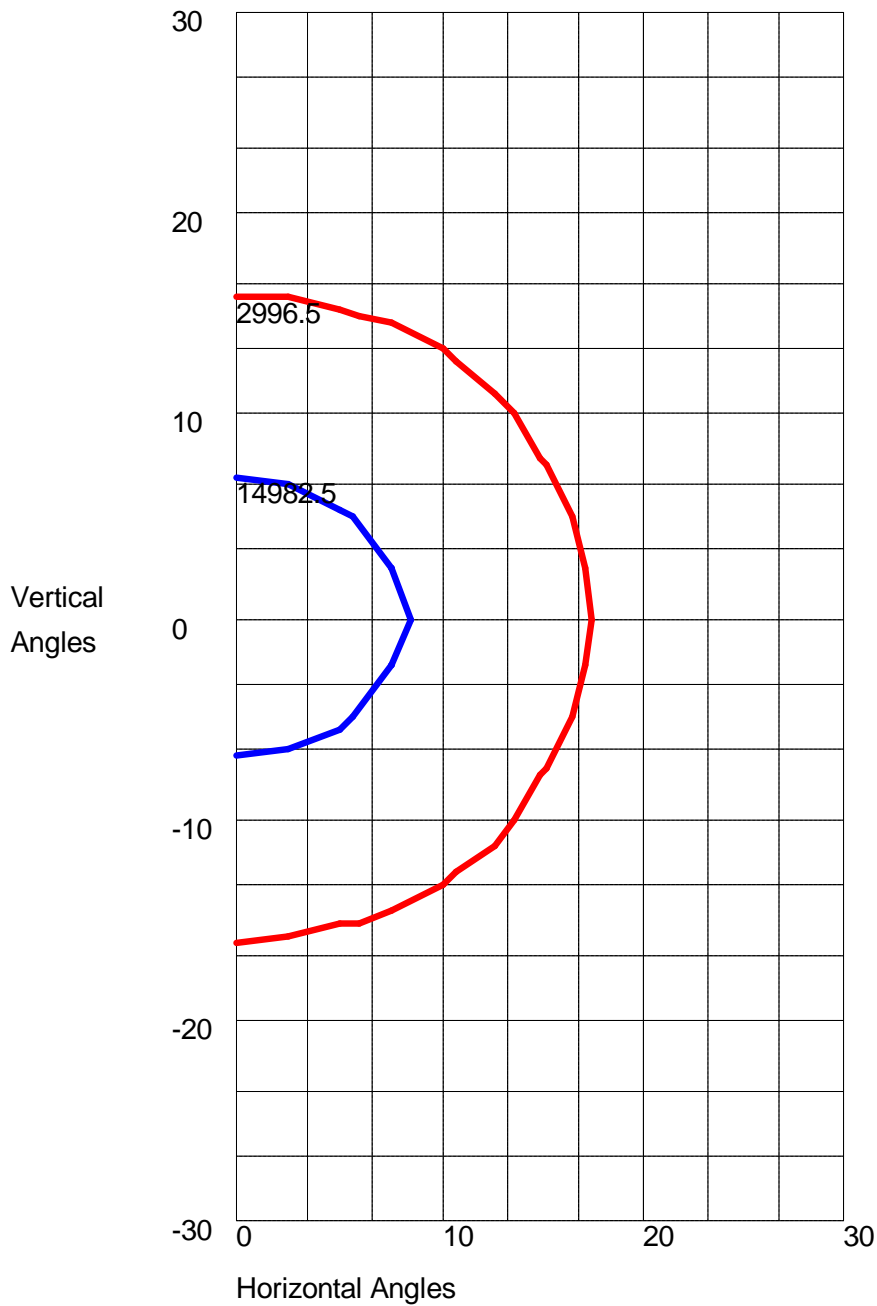
-75	0.04	0.00	3.01
-85	0.00	0.00	0.72
-90			
Total	1.13	0.10	1736.61

AXIAL CANDELA DISPLAY



Maximum Candela = 29965 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 29965 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 14982.5
10% Maximum Candela = 2996.5