



IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-VF-LED-28-HO-WW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5355
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/27/14
[TEST DATE]03/27/14
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XFLM-VF-LED-28-HO-WW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]2430
[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	8104
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	16.7
Vertical Beam Angle (50%)	51.2
Horizontal Field Angle (10%)	34.2
Vertical Field Angle (10%)	74.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1219
Beam Efficiency	N.A.
Field Lumens	2051
Field Efficiency	N.A.
Spill Lumens	388
Luminaire Lumens	2439
Total Efficiency	N.A.
Total Luminaire Watts	38.6
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	1	85	0
75	7	75	8
65	19	65	23
55	39	55	67
47.5	50	47.5	176
42.5	61	42.5	365
37.5	86	37.5	774
33	133	33	1531
29	185	29	2691
25.5	250	25.5	4200
22.5	358	22.5	5509
19.5	550	19.5	6697
17	821	17	7350
15	1153	15	7468
13	1633	13	7420
11	2340	11	7306
9	3564	9	7247
7	5025	7	7274
5	6579	5	7412
3	7722	3	7600
1	8104	1	7750
0	7894	0	7894
-1	8104	-1	7750
-3	7722	-3	7600
-5	6579	-5	7412
-7	5025	-7	7274
-9	3564	-9	7247
-11	2340	-11	7306
-13	1633	-13	7420
-15	1153	-15	7468
-17	821	-17	7350
-19.5	550	-19.5	6697
-22.5	358	-22.5	5509
-25.5	250	-25.5	4200
-29	185	-29	2691
-33	133	-33	1531
-37.5	86	-37.5	774
-42.5	61	-42.5	365
-47.5	50	-47.5	176
-55	39	-55	67
-65	19	-65	23
-75	7	-75	8
-85	1	-85	0
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 8104

Beam Edge = 4052 Cd (50% of Max.)

Field Edge = 810.4 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	1	1	1	0	0	0	0	0
75.0	0	1	1	2	1	2	3	3	3	4
65.0	0	1	2	2	5	7	9	10	11	12
55.0	0	1	2	5	10	15	18	20	23	26
47.5	0	1	3	8	15	25	32	32	38	42
42.5	0	1	4	10	18	33	38	41	50	56
37.5	0	1	4	12	22	33	37	45	55	66
33.0	0	1	5	14	26	33	40	48	60	75
29.0	0	1	5	15	30	35	44	53	66	87
25.5	0	1	6	16	32	38	46	57	73	99
22.5	0	1	6	17	34	40	47	60	81	112
19.5	0	1	6	18	35	42	49	65	88	125
17.0	0	1	6	19	35	42	50	68	93	134
15.0	0	1	7	19	35	43	51	69	98	137
13.0	0	1	7	19	35	44	53	72	102	145
11.0	0	1	7	19	35	45	55	74	106	149
9.0	0	1	7	19	35	46	56	78	111	151
7.0	0	1	7	19	35	47	57	81	117	158
5.0	0	1	7	19	36	48	58	83	122	167
3.0	0	1	7	19	37	49	60	85	127	175
1.0	0	1	7	19	38	50	61	86	131	182
0.0	0	1	7	19	39	50	61	86	133	185
-1.0	0	1	7	19	38	50	61	86	131	182
-3.0	0	1	7	19	37	49	60	85	127	175
-5.0	0	1	7	19	36	48	58	83	122	167
-7.0	0	1	7	19	35	47	57	81	117	158
-9.0	0	1	7	19	35	46	56	78	111	151
-11.0	0	1	7	19	35	45	55	74	106	149
-13.0	0	1	7	19	35	44	53	72	102	145
-15.0	0	1	7	19	35	43	51	69	98	137
-17.0	0	1	6	19	35	42	50	68	93	134
-19.5	0	1	6	18	35	42	49	65	88	125
-22.5	0	1	6	17	34	40	47	60	81	112
-25.5	0	1	6	16	32	38	46	57	73	99
-29.0	0	1	5	15	30	35	44	53	66	87
-33.0	0	1	5	14	26	33	40	48	60	75
-37.5	0	1	4	12	22	33	37	45	55	66
-42.5	0	1	4	10	18	33	38	41	50	56
-47.5	0	1	3	8	15	25	32	32	38	42
-55.0	0	1	2	5	10	15	18	20	23	26
-65.0	0	1	2	2	5	7	9	10	11	12
-75.0	0	1	1	2	1	2	3	3	3	4
-85.0	0	0	1	1	1	0	0	0	0	0
-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	5	5	5	5	6	6	6	6	7	7
65.0	14	15	16	17	17	18	19	20	22	23
55.0	32	37	42	45	48	53	56	59	62	64
47.5	48	56	63	73	83	93	105	121	138	154
42.5	66	79	95	112	137	164	194	229	270	310
37.5	83	101	136	173	215	277	346	423	522	625
33.0	98	126	174	244	311	414	560	729	939 *	1174 *
29.0	114	161	226	334	449	594	856 *	1169 *	1537 *	1985 *
25.5	138	200	301	410	581	808	1119 *	1673 *	2309 *	2989 *
22.5	164	237	353	506	672	1005 *	1421 *	2106 *	3035 *	3999 *
19.5	179	263	398	587	818 *	1132 *	1727 *	2450 *	3635 *	4892 *
17.0	193	272	433	627	890 *	1274 *	1844 *	2759 *	3927 *	5339 *
15.0	199	292	445	669	922 *	1336 *	1914 *	2843 *	4011 *	5461 *
13.0	202	300	463	689	973 *	1354 *	1998 *	2829 *	4105 *	5451 *
11.0	211	301	479	717	1000 *	1437 *	2022 *	2957 *	4129 *	5468 *
9.0	217	317	488	755	1064 *	1476 *	2125 *	2996 *	4211 *	5521 *
7.0	221	327	513	786	1101 *	1558 *	2207 *	3145 *	4323 *	5613 *
5.0	233	339	526	795	1157 *	1621 *	2310 *	3289 *	4527 *	5868 *
3.0	241	348	543	816 *	1173 *	1661 *	2384 *	3442 *	4769 *	6158 *
1.0	248	355	548	824 *	1159 *	1639 *	2346 *	3574 *	5030 *	6558 *
0.0	250	358	550	821 *	1153 *	1633 *	2340 *	3564 *	5025 *	6579 *
-1.0	248	355	548	824 *	1159 *	1639 *	2346 *	3574 *	5030 *	6558 *
-3.0	241	348	543	816 *	1173 *	1661 *	2384 *	3442 *	4769 *	6158 *
-5.0	233	339	526	795	1157 *	1621 *	2310 *	3289 *	4527 *	5868 *
-7.0	221	327	513	786	1101 *	1558 *	2207 *	3145 *	4323 *	5613 *
-9.0	217	317	488	755	1064 *	1476 *	2125 *	2996 *	4211 *	5521 *
-11.0	211	301	479	717	1000 *	1437 *	2022 *	2957 *	4129 *	5468 *
-13.0	202	300	463	689	973 *	1354 *	1998 *	2829 *	4105 *	5451 *
-15.0	199	292	445	669	922 *	1336 *	1914 *	2843 *	4011 *	5461 *
-17.0	193	272	433	627	890 *	1274 *	1844 *	2759 *	3927 *	5339 *
-19.5	179	263	398	587	818 *	1132 *	1727 *	2450 *	3635 *	4892 *
-22.5	164	237	353	506	672	1005 *	1421 *	2106 *	3035 *	3999 *
-25.5	138	200	301	410	581	808	1119 *	1673 *	2309 *	2989 *
-29.0	114	161	226	334	449	594	856 *	1169 *	1537 *	1985 *
-33.0	98	126	174	244	311	414	560	729	939 *	1174 *
-37.5	83	101	136	173	215	277	346	423	522	625
-42.5	66	79	95	112	137	164	194	229	270	310
-47.5	48	56	63	73	83	93	105	121	138	154
-55.0	32	37	42	45	48	53	56	59	62	64
-65.0	14	15	16	17	17	18	19	20	22	23
-75.0	5	5	5	5	6	6	6	6	7	7
-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	7	8	8	8	7	7	7	6	6	6
65.0	23	23	23	23	23	23	22	20	19	18

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CANDELA TABULATION - (Cont.)

55.0	66	67	67	67	66	64	62	59	56	53
47.5	169	174	176	174	169	154	138	121	105	93
42.5	349	360	365	360	349	310	270	229	194	164
37.5	726	761	774	761	726	625	522	423	346	277
33.0	1409 *	1503 *	1531 *	1503 *	1409 *	1174 *	939 *	729	560	414
29.0	2432 *	2649 *	2691 *	2649 *	2432 *	1985 *	1537 *	1169 *	856 *	594
25.5	3667 *	4089 *	4200 *	4089 *	3667 *	2989 *	2309 *	1673 *	1119 *	808
22.5	4892 *	5440 *	5509 *	5440 *	4892 *	3999 *	3035 *	2106 *	1421 *	1005 *
19.5	5905 *	6613 *	6697 *	6613 *	5905 *	4892 *	3635 *	2450 *	1727 *	1132 *
17.0	6455 *	7259 *	7350 *	7259 *	6455 *	5339 *	3927 *	2759 *	1844 *	1274 *
15.0	6618 *	7376 *	7468 *	7376 *	6618 *	5461 *	4011 *	2843 *	1914 *	1336 *
13.0	6639 *	7336 *	7420 *	7336 *	6639 *	5451 *	4105 *	2829 *	1998 *	1354 *
11.0	6615 *	7226 *	7306 *	7226 *	6615 *	5468 *	4129 *	2957 *	2022 *	1437 *
9.0	6588 *	7151 *	7247 *	7151 *	6588 *	5521 *	4211 *	2996 *	2125 *	1476 *
7.0	6699 *	7190 *	7274 *	7190 *	6699 *	5613 *	4323 *	3145 *	2207 *	1558 *
5.0	6874 *	7357 *	7412 *	7357 *	6874 *	5868 *	4527 *	3289 *	2310 *	1621 *
3.0	7179 *	7593 *	7600 *	7593 *	7179 *	6158 *	4769 *	3442 *	2384 *	1661 *
1.0	7581 *	7908 *	7750 *	7908 *	7581 *	6558 *	5030 *	3574 *	2346 *	1639 *
0.0	7722 *	8104 *	7894 *	8104 *	7722 *	6579 *	5025 *	3564 *	2340 *	1633 *
-1.0	7581 *	7908 *	7750 *	7908 *	7581 *	6558 *	5030 *	3574 *	2346 *	1639 *
-3.0	7179 *	7593 *	7600 *	7593 *	7179 *	6158 *	4769 *	3442 *	2384 *	1661 *
-5.0	6874 *	7357 *	7412 *	7357 *	6874 *	5868 *	4527 *	3289 *	2310 *	1621 *
-7.0	6699 *	7190 *	7274 *	7190 *	6699 *	5613 *	4323 *	3145 *	2207 *	1558 *
-9.0	6588 *	7151 *	7247 *	7151 *	6588 *	5521 *	4211 *	2996 *	2125 *	1476 *
-11.0	6615 *	7226 *	7306 *	7226 *	6615 *	5468 *	4129 *	2957 *	2022 *	1437 *
-13.0	6639 *	7336 *	7420 *	7336 *	6639 *	5451 *	4105 *	2829 *	1998 *	1354 *
-15.0	6618 *	7376 *	7468 *	7376 *	6618 *	5461 *	4011 *	2843 *	1914 *	1336 *
-17.0	6455 *	7259 *	7350 *	7259 *	6455 *	5339 *	3927 *	2759 *	1844 *	1274 *
-19.5	5905 *	6613 *	6697 *	6613 *	5905 *	4892 *	3635 *	2450 *	1727 *	1132 *
-22.5	4892 *	5440 *	5509 *	5440 *	4892 *	3999 *	3035 *	2106 *	1421 *	1005 *
-25.5	3667 *	4089 *	4200 *	4089 *	3667 *	2989 *	2309 *	1673 *	1119 *	808
-29.0	2432 *	2649 *	2691 *	2649 *	2432 *	1985 *	1537 *	1169 *	856 *	594
-33.0	1409 *	1503 *	1531 *	1503 *	1409 *	1174 *	939 *	729	560	414
-37.5	726	761	774	761	726	625	522	423	346	277
-42.5	349	360	365	360	349	310	270	229	194	164
-47.5	169	174	176	174	169	154	138	121	105	93
-55.0	66	67	67	67	66	64	62	59	56	53
-65.0	23	23	23	23	23	23	22	20	19	18
-75.0	7	8	8	8	7	7	7	6	6	6
-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	6	5	5	5	5	4	3	3	3	2
65.0	17	17	16	15	14	12	11	10	9	7
55.0	48	45	42	37	32	26	23	20	18	15
47.5	83	73	63	56	48	42	38	32	32	25
42.5	137	112	95	79	66	56	50	41	38	33
37.5	215	173	136	101	83	66	55	45	37	33
33.0	311	244	174	126	98	75	60	48	40	33
29.0	449	334	226	161	114	87	66	53	44	35
25.5	581	410	301	200	138	99	73	57	46	38

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CANDELA TABULATION - (Cont.)

22.5	672	506	353	237	164	112	81	60	47	40
19.5	818 *	587	398	263	179	125	88	65	49	42
17.0	890 *	627	433	272	193	134	93	68	50	42
15.0	922 *	669	445	292	199	137	98	69	51	43
13.0	973 *	689	463	300	202	145	102	72	53	44
11.0	1000 *	717	479	301	211	149	106	74	55	45
9.0	1064 *	755	488	317	217	151	111	78	56	46
7.0	1101 *	786	513	327	221	158	117	81	57	47
5.0	1157 *	795	526	339	233	167	122	83	58	48
3.0	1173 *	816 *	543	348	241	175	127	85	60	49
1.0	1159 *	824 *	548	355	248	182	131	86	61	50
0.0	1153 *	821 *	550	358	250	185	133	86	61	50
-1.0	1159 *	824 *	548	355	248	182	131	86	61	50
-3.0	1173 *	816 *	543	348	241	175	127	85	60	49
-5.0	1157 *	795	526	339	233	167	122	83	58	48
-7.0	1101 *	786	513	327	221	158	117	81	57	47
-9.0	1064 *	755	488	317	217	151	111	78	56	46
-11.0	1000 *	717	479	301	211	149	106	74	55	45
-13.0	973 *	689	463	300	202	145	102	72	53	44
-15.0	922 *	669	445	292	199	137	98	69	51	43
-17.0	890 *	627	433	272	193	134	93	68	50	42
-19.5	818 *	587	398	263	179	125	88	65	49	42
-22.5	672	506	353	237	164	112	81	60	47	40
-25.5	581	410	301	200	138	99	73	57	46	38
-29.0	449	334	226	161	114	87	66	53	44	35
-33.0	311	244	174	126	98	75	60	48	40	33
-37.5	215	173	136	101	83	66	55	45	37	33
-42.5	137	112	95	79	66	56	50	41	38	33
-47.5	83	73	63	56	48	42	38	32	32	25
-55.0	48	45	42	37	32	26	23	20	18	15
-65.0	17	17	16	15	14	12	11	10	9	7
-75.0	6	5	5	5	5	4	3	3	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>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	1	1	1	0	0
75.0	1	2	1	1	0
65.0	5	2	2	1	0
55.0	10	5	2	1	0
47.5	15	8	3	1	0
42.5	18	10	4	1	0
37.5	22	12	4	1	0
33.0	26	14	5	1	0
29.0	30	15	5	1	0
25.5	32	16	6	1	0
22.5	34	17	6	1	0
19.5	35	18	6	1	0
17.0	35	19	6	1	0
15.0	35	19	7	1	0
13.0	35	19	7	1	0
11.0	35	19	7	1	0
9.0	35	19	7	1	0

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CANDELA TABULATION - (Cont.)

7.0	35	19	7	1	0
5.0	36	19	7	1	0
3.0	37	19	7	1	0
1.0	38	19	7	1	0
0.0	39	19	7	1	0
-1.0	38	19	7	1	0
-3.0	37	19	7	1	0
-5.0	36	19	7	1	0
-7.0	35	19	7	1	0
-9.0	35	19	7	1	0
-11.0	35	19	7	1	0
-13.0	35	19	7	1	0
-15.0	35	19	7	1	0
-17.0	35	19	6	1	0
-19.5	35	18	6	1	0
-22.5	34	17	6	1	0
-25.5	32	16	6	1	0
-29.0	30	15	5	1	0
-33.0	26	14	5	1	0
-37.5	22	12	4	1	0
-42.5	18	10	4	1	0
-47.5	15	8	3	1	0
-55.0	10	5	2	1	0
-65.0	5	2	2	1	0
-75.0	1	2	1	1	0
-85.0	1	1	1	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) = 1219.49

Total Field Lumens (one side of beam only) = 1025.41

* 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	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
65	0.05	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.08
55	0.14	0.27	0.27	0.26	0.25	0.23	0.22	0.20	0.19	0.22
47.5	0.28	0.54	0.52	0.47	0.43	0.38	0.34	0.31	0.27	0.30
42.5	0.41	0.80	0.75	0.66	0.57	0.49	0.41	0.35	0.30	0.31
37.5	0.86	1.67	1.53	1.31	1.09	0.89	0.73	0.59	0.47	0.47
33	1.57 *	3.01 *	2.69 *	2.22 *	1.77	1.39	1.07	0.81	0.62	0.59
29	2.55 *	4.87 *	4.25 *	3.41 *	2.64 *	1.99 *	1.44	1.05	0.78	0.71
25.5	3.63 *	6.84 *	5.89 *	4.68 *	3.53 *	2.53 *	1.76 *	1.26	0.91	0.80
22.5	4.39 *	8.26 *	7.09 *	5.60 *	4.13 *	2.84 *	1.95 *	1.36	0.95	0.85
19.5	5.54 *	10.43 *	8.97 *	7.07 *	5.08 *	3.47 *	2.36 *	1.61 *	1.13	1.00
17	5.32 *	9.98 *	8.58 *	6.74 *	4.82 *	3.29 *	2.23 *	1.52 *	1.07	0.92
15	4.49 *	8.43 *	7.25 *	5.68 *	4.08 *	2.81 *	1.90 *	1.31 *	0.91	0.79
13	4.51 *	8.51 *	7.34 *	5.76 *	4.16 *	2.87 *	1.97 *	1.36 *	0.95 *	0.82
11	4.46 *	8.47 *	7.35 *	5.80 *	4.23 *	2.94 *	2.03 *	1.41 *	0.99 *	0.85
9	4.41 *	8.40 *	7.35 *	5.86 *	4.31 *	3.03 *	2.10 *	1.47 *	1.04 *	0.88
7	4.40 *	8.41 *	7.42 *	5.96 *	4.43 *	3.14 *	2.19 *	1.54 *	1.09 *	0.92
5	4.45 *	8.56 *	7.61 *	6.16 *	4.61 *	3.29 *	2.29 *	1.61 *	1.12 *	0.95
3	4.56 *	8.83 *	7.92 *	6.46 *	4.83 *	3.43 *	2.38 *	1.66 *	1.15 *	0.97
1	4.70 *	9.21 *	8.35 *	6.82 *	5.07 *	3.52 *	2.39 *	1.66 *	1.16 *	0.99
0	2.41 *	4.77 *	4.32 *	3.51 *	2.59 *	1.77 *	1.19 *	0.83 *	0.58 *	0.50
-1	2.41 *	4.77 *	4.32 *	3.51 *	2.59 *	1.77 *	1.19 *	0.83 *	0.58 *	0.50
	4.70 *	9.21 *	8.35 *	6.82 *	5.07 *	3.52 *	2.39 *	1.66 *	1.16 *	0.99

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	4.56 *	8.83 *	7.92 *	6.46 *	4.83 *	3.43 *	2.38 *	1.66 *	1.15 *	0.97
-5	4.45 *	8.56 *	7.61 *	6.16 *	4.61 *	3.29 *	2.29 *	1.61 *	1.12 *	0.95
-7	4.40 *	8.41 *	7.42 *	5.96 *	4.43 *	3.14 *	2.19 *	1.54 *	1.09 *	0.92
-9	4.41 *	8.40 *	7.35 *	5.86 *	4.31 *	3.03 *	2.10 *	1.47 *	1.04 *	0.88
-11	4.46 *	8.47 *	7.35 *	5.80 *	4.23 *	2.94 *	2.03 *	1.41 *	0.99 *	0.85
-13	4.51 *	8.51 *	7.34 *	5.76 *	4.16 *	2.87 *	1.97 *	1.36 *	0.95 *	0.82
-15	4.49 *	8.43 *	7.25 *	5.68 *	4.08 *	2.81 *	1.90 *	1.31 *	0.91	0.79
-17	5.32 *	9.98 *	8.58 *	6.74 *	4.82 *	3.29 *	2.23 *	1.52 *	1.07	0.92
-19.5	5.54 *	10.43 *	8.97 *	7.07 *	5.08 *	3.47 *	2.36 *	1.61 *	1.13	1.00
-22.5	4.39 *	8.26 *	7.09 *	5.60 *	4.13 *	2.84 *	1.95 *	1.36	0.95	0.85
-25.5	3.63 *	6.84 *	5.89 *	4.68 *	3.53 *	2.53 *	1.76 *	1.26	0.91	0.80
-29	2.55 *	4.87 *	4.25 *	3.41 *	2.64 *	1.99 *	1.44	1.05	0.78	0.71
-33	1.57 *	3.01 *	2.69 *	2.22 *	1.77	1.39	1.07	0.81	0.62	0.59
-37.5	0.86	1.67	1.53	1.31	1.09	0.89	0.73	0.59	0.47	0.47
-42.5	0.41	0.80	0.75	0.66	0.57	0.49	0.41	0.35	0.30	0.31
-47.5	0.28	0.54	0.52	0.47	0.43	0.38	0.34	0.31	0.27	0.30
-55	0.14	0.27	0.27	0.26	0.25	0.23	0.22	0.20	0.19	0.22
-65	0.05	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.08
-75	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	126.25	240.77	211.13	169.09	125.45	88.81	62.09	43.93	31.53	27.85

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	0.00	0.00	0.00	0.00	0.00	0.00
85	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01
75	0.09	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.02
65	0.23	0.20	0.20	0.19	0.18	0.17	0.13	0.13	0.08	0.03
55	0.32	0.27	0.26	0.25	0.24	0.22	0.18	0.17	0.11	0.04

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	0.31	0.26	0.25	0.24	0.23	0.21	0.17	0.16	0.10	0.03
42.5										
	0.44	0.34	0.32	0.30	0.27	0.23	0.19	0.19	0.12	0.04
37.5										
	0.52	0.38	0.34	0.30	0.26	0.22	0.17	0.18	0.13	0.04
33										
	0.59	0.42	0.35	0.30	0.25	0.22	0.16	0.18	0.13	0.04
29										
	0.66	0.45	0.36	0.30	0.24	0.20	0.15	0.17	0.12	0.04
25.5										
	0.70	0.46	0.36	0.29	0.23	0.18	0.14	0.15	0.11	0.04
22.5										
	0.80	0.53	0.41	0.32	0.25	0.19	0.14	0.16	0.12	0.04
19.5										
	0.73	0.47	0.37	0.29	0.22	0.17	0.12	0.14	0.10	0.03
17										
	0.62	0.40	0.31	0.24	0.18	0.14	0.10	0.11	0.08	0.03
15										
	0.64	0.41	0.32	0.25	0.19	0.14	0.10	0.11	0.08	0.03
13										
	0.66	0.42	0.34	0.26	0.20	0.15	0.11	0.11	0.08	0.03
11										
	0.68	0.44	0.34	0.27	0.21	0.15	0.11	0.12	0.08	0.03
9										
	0.70	0.45	0.35	0.28	0.22	0.16	0.11	0.12	0.08	0.03
7										
	0.73	0.47	0.37	0.29	0.23	0.16	0.11	0.12	0.08	0.03
5										
	0.75	0.48	0.39	0.31	0.23	0.17	0.12	0.12	0.08	0.03
3										
	0.77	0.50	0.40	0.32	0.24	0.17	0.12	0.12	0.09	0.03
1										
	0.39	0.25	0.20	0.16	0.12	0.09	0.06	0.06	0.04	0.01
0										
	0.39	0.25	0.20	0.16	0.12	0.09	0.06	0.06	0.04	0.01
-1										
	0.77	0.50	0.40	0.32	0.24	0.17	0.12	0.12	0.09	0.03
-3										
	0.75	0.48	0.39	0.31	0.23	0.17	0.12	0.12	0.08	0.03
-5										
	0.73	0.47	0.37	0.29	0.23	0.16	0.11	0.12	0.08	0.03
-7										
	0.70	0.45	0.35	0.28	0.22	0.16	0.11	0.12	0.08	0.03
-9										
	0.68	0.44	0.34	0.27	0.21	0.15	0.11	0.12	0.08	0.03
-11										
	0.66	0.42	0.34	0.26	0.20	0.15	0.11	0.11	0.08	0.03
-13										
	0.64	0.41	0.32	0.25	0.19	0.14	0.10	0.11	0.08	0.03
-15										
	0.62	0.40	0.31	0.24	0.18	0.14	0.10	0.11	0.08	0.03
-17										
	0.73	0.47	0.37	0.29	0.22	0.17	0.12	0.14	0.10	0.03
-19.5										
	0.80	0.53	0.41	0.32	0.25	0.19	0.14	0.16	0.12	0.04

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	0.70	0.46	0.36	0.29	0.23	0.18	0.14	0.15	0.11	0.04
-25.5	0.66	0.45	0.36	0.30	0.24	0.20	0.15	0.17	0.12	0.04
-29	0.59	0.42	0.35	0.30	0.25	0.22	0.16	0.18	0.13	0.04
-33	0.52	0.38	0.34	0.30	0.26	0.22	0.17	0.18	0.13	0.04
-37.5	0.44	0.34	0.32	0.30	0.27	0.23	0.19	0.19	0.12	0.04
-42.5	0.31	0.26	0.25	0.24	0.23	0.21	0.17	0.16	0.10	0.03
-47.5	0.32	0.27	0.26	0.25	0.24	0.22	0.18	0.17	0.11	0.04
-55	0.23	0.20	0.20	0.19	0.18	0.17	0.13	0.13	0.08	0.03
-65	0.09	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.02
-75	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01
-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	22.64	15.44	12.77	10.52	8.54	6.88	5.15	5.41	3.78	1.24

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.01	
85	0.00	0.00	0.36	
75	0.01	0.00	1.42	
65	0.01	0.00	3.79	
55	0.01	0.00	5.92	
47.5	0.01	0.00	7.02	
42.5	0.01	0.00	12.04	
37.5	0.01	0.00	18.30	
33	0.01	0.00	26.34	
29	0.01	0.00	34.54	
25.5	0.01	0.00	40.09	
22.5	0.01	0.00	49.64	
19.5	0.00	0.00	47.11	
17	0.00	0.00	39.86	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-VF-LED-28-HO-WW.IES

LUMENS TABULATION - (Cont.)

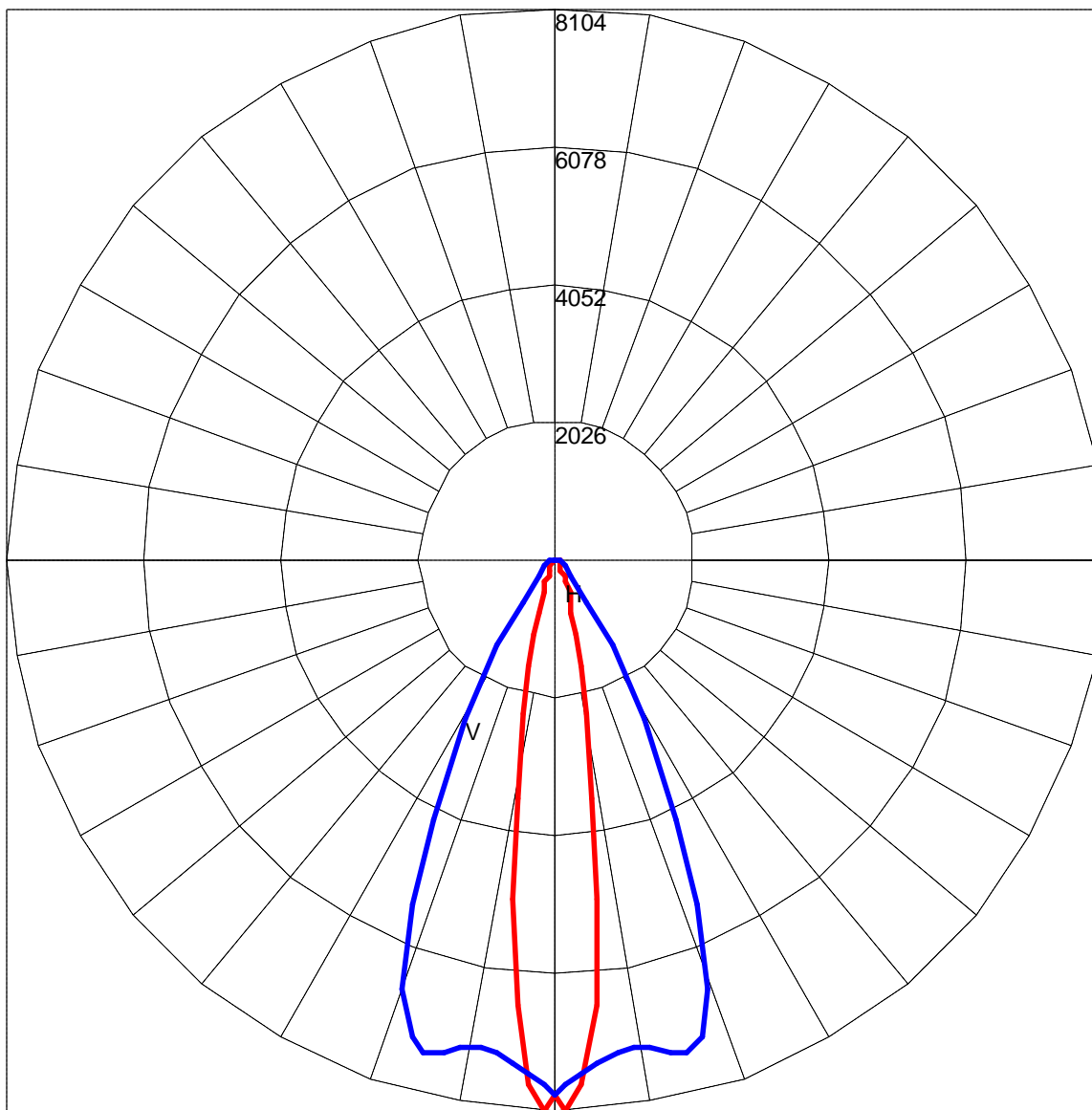
15	0.00	0.00	40.55
13	0.00	0.00	40.88
11	0.00	0.00	41.27
9	0.00	0.00	41.99
7	0.00	0.00	43.24
5	0.00	0.00	44.88
3	0.00	0.00	46.64
1	0.00	0.00	23.86
0	0.00	0.00	23.86
-1	0.00	0.00	46.64
-3	0.00	0.00	44.88
-5	0.00	0.00	43.24
-7	0.00	0.00	41.99
-9	0.00	0.00	41.27
-11	0.00	0.00	40.88
-13	0.00	0.00	40.55
-15	0.00	0.00	39.86
-17	0.00	0.00	47.11
-19.5	0.01	0.00	49.64
-22.5	0.01	0.00	40.09
-25.5	0.01	0.00	34.54
-29	0.01	0.00	26.34
-33	0.01	0.00	18.30
-37.5	0.01	0.00	12.04
-42.5	0.01	0.00	7.02
-47.5	0.01	0.00	5.92
-55	0.01	0.00	3.79
-65	0.01	0.00	1.42

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-VF-LED-28-HO-WW.IES

LUMENS TABULATION - (Cont.)

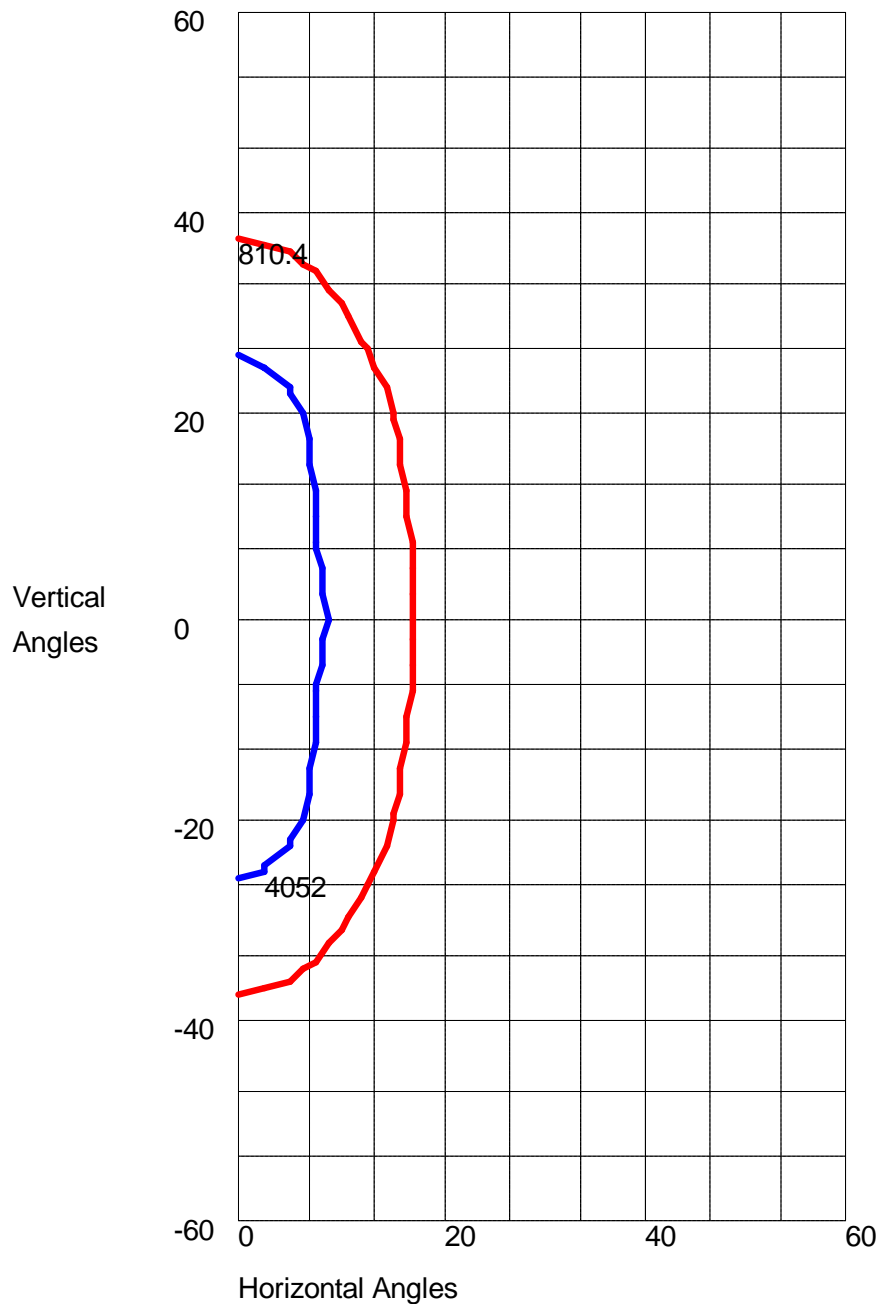
-75	0.00	0.00	0.36
-85	0.00	0.00	0.01
-90			
Total	0.22	0.01	1219.49

AXIAL CANDELA DISPLAY



Maximum Candela = 8104 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 8104 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 4052
10% Maximum Candela = 810.4