



IES FLOOD REPORT

PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4140
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]06/10/13
[TEST DATE]06/10/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XFLM-WF-LED-28-HO-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[ABSOLUTE LUMENS]3389
[LUMINAIRE] XFLM
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	5572
Maximum Candela Angle	-3H 0V
Horizontal Beam Angle (50%)	45.4
Vertical Beam Angle (50%)	44.2
Horizontal Field Angle (10%)	73.7
Vertical Field Angle (10%)	73.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1928
Beam Efficiency	N.A.
Field Lumens	2996
Field Efficiency	N.A.
Spill Lumens	410
Luminaire Lumens	3407
Total Efficiency	N.A.
Total Luminaire Watts	36
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	10	85	8
75	18	75	19
65	36	65	38
55	75	55	80
47.5	153	47.5	158
42.5	270	42.5	278
37.5	506	37.5	513
33	855	33	909
29	1439	29	1445
25.5	2133	25.5	2115
22.5	2832	22.5	2775
19.5	3471	19.5	3386
17	3948	17	3806
15	4248	15	4052
13	4450	13	4228
11	4637	11	4404
9	4844	9	4609
7	5089	7	4853
5	5375	5	5131
3	5572	3	5317
1	5561	1	5458
0	5521	0	5521
-1	5561	-1	5458
-3	5572	-3	5317
-5	5375	-5	5131
-7	5089	-7	4853
-9	4844	-9	4609
-11	4637	-11	4404
-13	4450	-13	4228
-15	4248	-15	4052
-17	3948	-17	3806
-19.5	3471	-19.5	3386
-22.5	2832	-22.5	2775
-25.5	2133	-25.5	2115
-29	1439	-29	1445
-33	855	-33	909
-37.5	506	-37.5	513
-42.5	270	-42.5	278
-47.5	153	-47.5	158
-55	75	-55	80
-65	36	-65	38
-75	18	-75	19
-85	10	-85	8
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 5572

Beam Edge = 2786 Cd (50% of Max.)

Field Edge = 557.2 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	1	5	7	7	7	8	9	9	9
75.0	0	4	10	10	11	12	14	14	15	16
65.0	0	6	11	13	17	21	22	25	28	30
55.0	0	7	12	17	25	32	36	42	48	53
47.5	0	8	13	20	33	44	53	63	74	87
42.5	0	8	13	23	37	54	67	83	103	126
37.5	0	9	14	25	43	65	85	113	150	191
33.0	0	9	15	28	49	75	105	149	206	270
29.0	0	9	16	29	53	88	125	190	268	374
25.5	0	9	16	31	58	97	149	231	344	494
22.5	0	10	17	32	62	108	169	270	422	620 *
19.5	0	10	17	33	65	118	193	317	503	757 *
17.0	0	10	17	33	68	126	205	353	584 *	874 *
15.0	0	10	17	34	69	134	222	378	640 *	968 *
13.0	0	10	18	34	72	141	237	414	688 *	1057 *
11.0	0	10	18	35	74	146	250	447	737 *	1153 *
9.0	0	10	18	35	75	150	258	471	782 *	1235 *
7.0	0	10	18	36	76	153	263	488	817 *	1309 *
5.0	0	10	18	36	76	155	268	498	840 *	1371 *
3.0	0	10	18	36	76	155	272	504	853 *	1419 *
1.0	0	10	18	36	75	154	270	507	854 *	1432 *
0.0	0	10	18	36	75	153	270	506	855 *	1439 *
-1.0	0	10	18	36	75	154	270	507	854 *	1432 *
-3.0	0	10	18	36	76	155	272	504	853 *	1418 *
-5.0	0	10	18	36	76	155	268	498	840 *	1371 *
-7.0	0	10	18	36	76	153	263	487	817 *	1309 *
-9.0	0	10	18	35	75	150	258	471	782 *	1235 *
-11.0	0	10	18	35	74	146	250	447	737 *	1153 *
-13.0	0	10	18	34	72	141	237	414	688 *	1056 *
-15.0	0	10	17	34	69	134	222	378	640 *	964 *
-17.0	0	10	17	33	68	126	205	353	584 *	874 *
-19.5	0	10	17	33	65	118	193	317	503	757 *
-22.5	0	10	17	32	62	108	169	270	422	620 *
-25.5	0	9	16	31	58	97	149	231	344	492
-29.0	0	9	16	29	53	88	125	190	268	374
-33.0	0	9	15	28	49	75	105	149	206	270
-37.5	0	9	14	25	43	65	85	113	150	191
-42.5	0	8	13	23	37	54	67	83	103	126
-47.5	0	8	13	20	33	44	53	63	73	87
-55.0	0	7	12	17	25	32	36	42	48	53
-65.0	0	6	11	13	17	21	22	25	28	30
-75.0	0	4	10	10	11	12	13	14	15	16
-85.0	0	1	5	7	7	7	8	9	9	9
-90.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	-25.5	-22.5	-19.5	-17.0	-15.0	-13.0	-11.0	-9.0	-7.0	-5.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	9	9	9	9	9	9	9	9	9	9
75.0	17	17	17	18	18	18	19	19	19	19
65.0	31	32	33	34	35	36	36	36	37	38
55.0	58	63	66	69	71	72	74	76	77	78
47.5	99	111	120	128	137	143	149	154	158	160
42.5	150	168	190	204	219	235	249	260	268	274
37.5	229	262	306	341	364	401	436	462	482	496
33.0	339	411	484	558 *	610 *	661 *	717 *	769 *	814 *	854 *
29.0	487	603 *	725 *	832 *	917 *	1002 *	1101 *	1188 *	1268 *	1347 *
25.5	659 *	824 *	1012 *	1168 *	1326 *	1469 *	1603 *	1752 *	1881 *	1984 *
22.5	840 *	1073 *	1334 *	1583 *	1787 *	1986 *	2158 *	2337 *	2495 *	2625 *
19.5	1059 *	1372 *	1736 *	2076 *	2321 *	2563 *	2772 *	2952 *	3109 *	3244 *
17.0	1236 *	1663 *	2122 *	2507 *	2806 *	3041 *	3263 *	3437 *	3571 *	3693 *
15.0	1416 *	1892 *	2414 *	2852 *	3144 *	3412 *	3609 *	3790 *	3883 *	3966 *
13.0	1577 *	2112 *	2691 *	3133 *	3462 *	3733 *	3914 *	4053 *	4142 *	4189 *
11.0	1714 *	2301 *	2923 *	3399 *	3709 *	3965 *	4154 *	4265 *	4332 *	4379 *
9.0	1851 *	2476 *	3115 *	3602 *	3928 *	4149 *	4317 *	4425 *	4506 *	4559 *
7.0	1963 *	2615 *	3263 *	3740 *	4046 *	4277 *	4436 *	4566 *	4663 *	4765 *
5.0	2046 *	2724 *	3374 *	3859 *	4140 *	4358 *	4531 *	4681 *	4837 *	4982 *
3.0	2100 *	2789 *	3441 *	3924 *	4209 *	4416 *	4597 *	4776 *	4975 *	5188 *
1.0	2120 *	2822 *	3460 *	3940 *	4242 *	4439 *	4622 *	4819 *	5051 *	5333 *
0.0	2133 *	2832 *	3471 *	3948 *	4248 *	4450 *	4637 *	4844 *	5089 *	5375 *
-1.0	2120 *	2822 *	3460 *	3940 *	4242 *	4439 *	4622 *	4819 *	5051 *	5333 *
-3.0	2099 *	2789 *	3441 *	3924 *	4209 *	4416 *	4597 *	4776 *	4975 *	5188 *
-5.0	2046 *	2724 *	3374 *	3859 *	4140 *	4358 *	4531 *	4680 *	4837 *	4982 *
-7.0	1963 *	2615 *	3263 *	3740 *	4043 *	4277 *	4436 *	4567 *	4663 *	4765 *
-9.0	1850 *	2476 *	3114 *	3601 *	3928 *	4149 *	4317 *	4425 *	4506 *	4559 *
-11.0	1712 *	2300 *	2923 *	3399 *	3709 *	3965 *	4152 *	4265 *	4332 *	4379 *
-13.0	1573 *	2112 *	2687 *	3133 *	3462 *	3728 *	3914 *	4053 *	4142 *	4189 *
-15.0	1413 *	1892 *	2413 *	2841 *	3144 *	3410 *	3609 *	3790 *	3883 *	3966 *
-17.0	1236 *	1662 *	2122 *	2507 *	2806 *	3041 *	3263 *	3437 *	3571 *	3693 *
-19.5	1055 *	1371 *	1736 *	2076 *	2321 *	2563 *	2772 *	2952 *	3109 *	3244 *
-22.5	840 *	1073 *	1334 *	1579 *	1787 *	1986 *	2153 *	2337 *	2495 *	2625 *
-25.5	659 *	824 *	1012 *	1168 *	1326 *	1469 *	1603 *	1752 *	1881 *	1984 *
-29.0	487	603 *	725 *	832 *	917 *	1002 *	1101 *	1188 *	1268 *	1347 *
-33.0	339	411	484	558 *	610 *	661 *	717 *	769 *	814 *	854 *
-37.5	229	262	306	341	364	401	436	462	482	496
-42.5	150	168	190	204	219	235	249	260	268	274
-47.5	99	111	120	128	137	143	149	154	158	160
-55.0	58	63	66	69	71	72	74	76	77	78
-65.0	31	32	33	34	35	36	36	36	37	38
-75.0	17	17	17	18	18	18	19	19	19	19
-85.0	9	9	9	9	9	9	9	9	9	9
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	-3.0	-1.0	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	9	8	8	8	9	9	9	9	9	9
75.0	19	19	19	19	19	19	19	19	19	18
65.0	38	38	38	38	38	38	37	36	36	36

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CANDELA TABULATION - (Cont.)

55.0	79	80	80	80	79	78	77	76	74	72
47.5	162	160	158	160	162	160	158	154	149	143
42.5	280	279	278	279	280	274	268	260	249	235
37.5	507	513	513	513	507	496	482	462	436	401
33.0	891 *	906 *	909 *	906 *	891 *	854 *	814 *	769 *	717 *	661 *
29.0	1410 *	1437 *	1445 *	1437 *	1410 *	1347 *	1269 *	1188 *	1101 *	1002 *
25.5	2057 *	2099 *	2115 *	2099 *	2057 *	1984 *	1881 *	1752 *	1603 *	1469 *
22.5	2709 *	2762 *	2775 *	2762 *	2709 *	2625 *	2495 *	2337 *	2158 *	1986 *
19.5	3324 *	3369 *	3386 *	3369 *	3325 *	3248 *	3110 *	2952 *	2772 *	2563 *
17.0	3764 *	3796 *	3806 *	3796 *	3764 *	3693 *	3572 *	3437 *	3263 *	3041 *
15.0	4022 *	4051 *	4052 *	4051 *	4023 *	3967 *	3883 *	3790 *	3610 *	3412 *
13.0	4218 *	4227 *	4228 *	4227 *	4218 *	4189 *	4143 *	4054 *	3914 *	3733 *
11.0	4402 *	4405 *	4404 *	4405 *	4402 *	4379 *	4332 *	4265 *	4154 *	3965 *
9.0	4598 *	4607 *	4609 *	4607 *	4598 *	4559 *	4507 *	4425 *	4317 *	4149 *
7.0	4826 *	4847 *	4853 *	4847 *	4826 *	4765 *	4663 *	4567 *	4436 *	4277 *
5.0	5093 *	5136 *	5131 *	5136 *	5093 *	4982 *	4837 *	4681 *	4531 *	4358 *
3.0	5308 *	5331 *	5317 *	5331 *	5308 *	5188 *	4975 *	4776 *	4597 *	4416 *
1.0	5496 *	5491 *	5458 *	5491 *	5496 *	5336 *	5057 *	4826 *	4626 *	4443 *
0.0	5572 *	5561 *	5521 *	5561 *	5572 *	5375 *	5089 *	4844 *	4637 *	4450 *
-1.0	5496 *	5491 *	5458 *	5491 *	5496 *	5336 *	5057 *	4826 *	4626 *	4443 *
-3.0	5308 *	5331 *	5317 *	5331 *	5308 *	5188 *	4975 *	4776 *	4597 *	4416 *
-5.0	5093 *	5132 *	5131 *	5132 *	5093 *	4982 *	4837 *	4680 *	4531 *	4358 *
-7.0	4826 *	4842 *	4853 *	4842 *	4826 *	4765 *	4663 *	4566 *	4436 *	4277 *
-9.0	4598 *	4600 *	4609 *	4600 *	4598 *	4559 *	4506 *	4425 *	4317 *	4149 *
-11.0	4402 *	4400 *	4404 *	4400 *	4402 *	4379 *	4332 *	4265 *	4152 *	3965 *
-13.0	4218 *	4224 *	4228 *	4224 *	4218 *	4189 *	4143 *	4054 *	3914 *	3728 *
-15.0	4022 *	4047 *	4052 *	4047 *	4023 *	3967 *	3883 *	3790 *	3610 *	3410 *
-17.0	3764 *	3792 *	3806 *	3792 *	3764 *	3693 *	3572 *	3437 *	3263 *	3041 *
-19.5	3324 *	3365 *	3386 *	3365 *	3325 *	3248 *	3110 *	2952 *	2772 *	2563 *
-22.5	2709 *	2757 *	2775 *	2757 *	2709 *	2625 *	2495 *	2337 *	2153 *	1986 *
-25.5	2053 *	2095 *	2115 *	2095 *	2053 *	1984 *	1881 *	1752 *	1603 *	1469 *
-29.0	1401 *	1434 *	1445 *	1434 *	1401 *	1347 *	1269 *	1188 *	1101 *	1002 *
-33.0	884 *	904 *	909 *	904 *	884 *	854 *	814 *	769 *	717 *	661 *
-37.5	507	512	513	512	507	496	482	462	436	401
-42.5	280	278	278	278	280	274	268	260	249	235
-47.5	161	159	158	159	161	160	158	154	149	143
-55.0	79	80	80	80	79	78	77	76	74	72
-65.0	38	38	38	38	38	38	37	36	36	36
-75.0	19	19	19	19	19	19	19	19	19	18
-85.0	9	8	8	8	9	9	9	9	9	9
-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	9	9	9	9	9	9	9	9	8	7
75.0	18	18	17	17	17	16	15	14	14	12
65.0	35	34	33	32	31	30	28	25	22	21
55.0	71	69	66	63	58	53	48	42	36	32
47.5	137	128	120	111	99	88	74	63	53	44
42.5	219	204	190	168	150	126	103	83	67	54
37.5	364	341	306	262	229	191	150	113	85	65
33.0	610 *	558 *	484	411	339	270	206	149	105	75
29.0	917 *	832 *	725 *	603 *	487	374	270	190	125	88
25.5	1326 *	1168 *	1012 *	824 *	660 *	494	344	231	149	97

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CANDELA TABULATION - (Cont.)

22.5	1787 *	1583 *	1334 *	1073 *	840 *	621 *	422	270	169	108
19.5	2325 *	2076 *	1744 *	1373 *	1059 *	757 *	503	317	193	118
17.0	2808 *	2507 *	2122 *	1663 *	1241 *	874 *	584 *	353	207	126
15.0	3144 *	2852 *	2414 *	1892 *	1416 *	968 *	640 *	378	222	134
13.0	3462 *	3133 *	2691 *	2112 *	1577 *	1057 *	688 *	414	237	141
11.0	3709 *	3399 *	2923 *	2304 *	1714 *	1153 *	737 *	447	250	146
9.0	3941 *	3602 *	3115 *	2476 *	1851 *	1235 *	782 *	471	258	150
7.0	4046 *	3740 *	3263 *	2615 *	1963 *	1309 *	817 *	488	263	153
5.0	4140 *	3859 *	3374 *	2724 *	2046 *	1371 *	840 *	498	268	155
3.0	4209 *	3924 *	3441 *	2791 *	2100 *	1419 *	854 *	505	273	156
1.0	4245 *	3944 *	3466 *	2827 *	2125 *	1436 *	857 *	508	271	154
0.0	4248 *	3948 *	3471 *	2832 *	2133 *	1439 *	855 *	506	270	153
-1.0	4245 *	3944 *	3466 *	2827 *	2125 *	1436 *	857 *	508	271	154
-3.0	4209 *	3924 *	3441 *	2791 *	2099 *	1418 *	854 *	505	273	156
-5.0	4140 *	3859 *	3374 *	2724 *	2046 *	1371 *	840 *	498	268	155
-7.0	4043 *	3740 *	3263 *	2615 *	1963 *	1309 *	817 *	487	263	153
-9.0	3941 *	3601 *	3114 *	2476 *	1850 *	1235 *	782 *	471	258	150
-11.0	3709 *	3399 *	2923 *	2304 *	1712 *	1153 *	737 *	447	250	146
-13.0	3462 *	3133 *	2687 *	2112 *	1573 *	1056 *	688 *	414	237	141
-15.0	3144 *	2841 *	2413 *	1892 *	1413 *	964 *	640 *	378	222	134
-17.0	2808 *	2507 *	2122 *	1662 *	1241 *	874 *	584 *	353	207	126
-19.5	2325 *	2076 *	1744 *	1372 *	1055 *	757 *	503	317	193	118
-22.5	1787 *	1579 *	1334 *	1073 *	840 *	621 *	422	270	169	108
-25.5	1326 *	1168 *	1012 *	824 *	659 *	492	344	231	149	97
-29.0	917 *	832 *	725 *	603 *	487	374	270	190	125	88
-33.0	610 *	558 *	484	411	339	270	206	149	105	75
-37.5	364	341	306	262	229	191	150	113	85	65
-42.5	219	204	190	168	150	126	103	83	67	54
-47.5	137	128	120	111	99	88	73	63	53	44
-55.0	71	69	66	63	58	53	48	42	36	32
-65.0	35	34	33	32	31	30	28	25	22	21
-75.0	18	18	17	17	17	16	15	14	13	12
-85.0	9	9	9	9	9	9	9	9	8	7
-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	7	7	5	1	0
75.0	11	10	10	4	0
65.0	17	13	11	6	0
55.0	25	17	12	7	0
47.5	33	20	13	8	0
42.5	37	23	13	8	0
37.5	43	25	14	9	0
33.0	49	28	15	9	0
29.0	53	29	16	9	0
25.5	58	31	16	9	0
22.5	62	32	17	10	0
19.5	65	33	17	10	0
17.0	68	33	17	10	0
15.0	69	34	17	10	0
13.0	72	34	18	10	0
11.0	74	35	18	10	0
9.0	75	35	18	10	0

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CANDELA TABULATION - (Cont.)

7.0	76	36	18	10	0
5.0	77	36	18	10	0
3.0	77	36	18	10	0
1.0	76	36	18	10	0
0.0	75	36	18	10	0
-1.0	76	36	18	10	0
-3.0	77	36	18	10	0
-5.0	77	36	18	10	0
-7.0	76	36	18	10	0
-9.0	75	35	18	10	0
-11.0	74	35	18	10	0
-13.0	72	34	18	10	0
-15.0	69	34	17	10	0
-17.0	68	33	17	10	0
-19.5	65	33	17	10	0
-22.5	62	32	17	10	0
-25.5	58	31	16	9	0
-29.0	53	29	16	9	0
-33.0	49	28	15	9	0
-37.5	43	25	14	9	0
-42.5	37	23	13	8	0
-47.5	33	20	13	8	0
-55.0	25	17	12	7	0
-65.0	17	13	11	6	0
-75.0	11	10	10	4	0
-85.0	7	7	5	1	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1703.37

Total Field Lumens (one side of beam only) = 1498.12

* 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
75	0.04	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.10
65	0.09	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.18
55	0.18	0.36	0.35	0.35	0.34	0.33	0.32	0.32	0.31	0.37
47.5	0.27	0.55	0.55	0.54	0.53	0.51	0.49	0.47	0.44	0.52
42.5	0.33	0.67	0.67	0.65	0.63	0.61	0.58	0.54	0.50	0.58
37.5	0.60	1.20	1.18	1.15	1.11	1.06	0.98	0.90	0.83	0.94
33	0.97 *	1.93 *	1.88 *	1.80 *	1.72 *	1.61 *	1.48	1.35	1.23	1.37
29	1.43 *	2.83 *	2.74 *	2.60 *	2.44 *	2.26 *	2.07 *	1.89 *	1.71 *	1.88 *
25.5	1.89 *	3.73 *	3.61 *	3.44 *	3.21 *	2.96 *	2.70 *	2.44 *	2.17 *	2.36 *
22.5	2.23 *	4.40 *	4.27 *	4.08 *	3.83 *	3.53 *	3.22 *	2.91 *	2.58 *	2.76 *
19.5	2.81 *	5.55 *	5.43 *	5.21 *	4.93 *	4.60 *	4.24 *	3.84 *	3.41 *	3.65 *
17	2.73 *	5.42 *	5.33 *	5.16 *	4.93 *	4.66 *	4.33 *	3.97 *	3.55 *	3.82 *
15	2.39 *	4.76 *	4.69 *	4.58 *	4.43 *	4.23 *	3.97 *	3.67 *	3.31 *	3.58 *
13	2.52 *	5.03 *	4.98 *	4.90 *	4.79 *	4.61 *	4.37 *	4.06 *	3.69 *	4.01 *
11	2.63 *	5.25 *	5.22 *	5.16 *	5.07 *	4.92 *	4.70 *	4.39 *	4.01 *	4.39 *
9	2.75 *	5.48 *	5.45 *	5.39 *	5.29 *	5.15 *	4.94 *	4.66 *	4.29 *	4.71 *
7	2.88 *	5.75 *	5.70 *	5.60 *	5.48 *	5.32 *	5.12 *	4.85 *	4.49 *	4.96 *
5	3.04 *	6.06 *	5.98 *	5.83 *	5.65 *	5.46 *	5.24 *	4.97 *	4.62 *	5.15 *
3	3.19 *	6.35 *	6.25 *	6.05 *	5.81 *	5.58 *	5.33 *	5.06 *	4.72 *	5.28 *
1	3.29 *	6.58 *	6.48 *	6.23 *	5.92 *	5.65 *	5.39 *	5.12 *	4.78 *	5.34 *
0	1.68 *	3.37 *	3.31 *	3.16 *	2.99 *	2.84 *	2.70 *	2.57 *	2.40 *	2.68 *
-1	1.68 *	3.37 *	3.31 *	3.16 *	2.99 *	2.84 *	2.70 *	2.57 *	2.40 *	2.68 *
	3.29 *	6.58 *	6.48 *	6.23 *	5.92 *	5.65 *	5.39 *	5.12 *	4.78 *	5.34 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

LUMENS TABULATION - (Cont.)

-3	3.18 *	6.35 *	6.25 *	6.05 *	5.81 *	5.57 *	5.33 *	5.06 *	4.72 *	5.28 *
-5	3.04 *	6.06 *	5.98 *	5.83 *	5.65 *	5.46 *	5.24 *	4.97 *	4.62 *	5.15 *
-7	2.88 *	5.74 *	5.70 *	5.60 *	5.48 *	5.32 *	5.12 *	4.85 *	4.49 *	4.96 *
-9	2.74 *	5.48 *	5.45 *	5.38 *	5.29 *	5.15 *	4.94 *	4.66 *	4.29 *	4.71 *
-11	2.63 *	5.25 *	5.22 *	5.16 *	5.07 *	4.91 *	4.70 *	4.39 *	4.01 *	4.39 *
-13	2.52 *	5.03 *	4.98 *	4.90 *	4.79 *	4.61 *	4.37 *	4.06 *	3.68 *	4.00 *
-15	2.39 *	4.76 *	4.69 *	4.58 *	4.43 *	4.23 *	3.97 *	3.67 *	3.31 *	3.57 *
-17	2.73 *	5.42 *	5.33 *	5.16 *	4.93 *	4.66 *	4.33 *	3.97 *	3.55 *	3.82 *
-19.5	2.81 *	5.55 *	5.43 *	5.21 *	4.93 *	4.60 *	4.23 *	3.84 *	3.41 *	3.65 *
-22.5	2.23 *	4.39 *	4.27 *	4.08 *	3.83 *	3.53 *	3.22 *	2.91 *	2.57 *	2.76 *
-25.5	1.89 *	3.72 *	3.61 *	3.44 *	3.21 *	2.96 *	2.70 *	2.44 *	2.17 *	2.36 *
-29	1.43 *	2.81 *	2.73 *	2.60 *	2.44 *	2.26 *	2.07 *	1.89 *	1.71 *	1.88 *
-33	0.97 *	1.92 *	1.87 *	1.80 *	1.72 *	1.61 *	1.48	1.35	1.23	1.37
-37.5	0.60	1.20	1.18	1.15	1.11	1.06	0.98	0.90	0.83	0.94
-42.5	0.33	0.67	0.66	0.65	0.63	0.61	0.58	0.54	0.50	0.58
-47.5	0.27	0.55	0.54	0.54	0.53	0.51	0.49	0.47	0.44	0.52
-55	0.18	0.36	0.35	0.35	0.34	0.33	0.32	0.32	0.31	0.37
-65	0.09	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.18
-75	0.04	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.10
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
-90										
Total	75.88	151.02	148.65	144.29	138.70	132.28	124.90	116.44	106.57	117.30

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>
90										
	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.02
85	0.11	0.11	0.12	0.13	0.13	0.13	0.11	0.13	0.13	0.08
75	0.21	0.20	0.22	0.23	0.23	0.22	0.19	0.22	0.19	0.11
65	0.41	0.38	0.41	0.42	0.40	0.36	0.30	0.34	0.27	0.14
55	0.58	0.52	0.53	0.51	0.48	0.42	0.33	0.36	0.27	0.12

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

LUMENS TABULATION - (Cont.)

47.5										
	0.63	0.55	0.55	0.51	0.45	0.39	0.29	0.30	0.21	0.09
42.5	0.99	0.84	0.82	0.74	0.63	0.51	0.36	0.36	0.24	0.10
37.5	1.40	1.17	1.10	0.96	0.78	0.59	0.40	0.37	0.25	0.10
33	1.90	1.54	1.39	1.17	0.91	0.66	0.42	0.38	0.24	0.09
29	2.36 *	1.88 *	1.67	1.35	1.01	0.71	0.43	0.37	0.23	0.08
25.5	2.71 *	2.13 *	1.86 *	1.47	1.06	0.72	0.42	0.35	0.21	0.07
22.5	3.53 *	2.72 *	2.33 *	1.80 *	1.27	0.83	0.47	0.38	0.22	0.08
19.5	3.68 *	2.78 *	2.33 *	1.77 *	1.23	0.78	0.43	0.34	0.19	0.07
17	3.45 *	2.59 *	2.13 *	1.60 *	1.09	0.68	0.37	0.28	0.16	0.05
15	3.89 *	2.92 *	2.38 *	1.75 *	1.19	0.73	0.40	0.30	0.16	0.05
13	4.28 *	3.22 *	2.61 *	1.90 *	1.28 *	0.79	0.42	0.31	0.16	0.05
11	4.61 *	3.48 *	2.82 *	2.04 *	1.36 *	0.83	0.43	0.32	0.17	0.06
9	4.89 *	3.72 *	3.01 *	2.16 *	1.43 *	0.86	0.44	0.32	0.17	0.06
7	5.11 *	3.90 *	3.17 *	2.26 *	1.48 *	0.88	0.45	0.33	0.17	0.06
5	5.26 *	4.03 *	3.29 *	2.34 *	1.51 *	0.90	0.46	0.33	0.17	0.06
3	5.34 *	4.11 *	3.35 *	2.38 *	1.52 *	0.91	0.46	0.33	0.17	0.06
1	2.69 *	2.07 *	1.69 *	1.20 *	0.76 *	0.45	0.23	0.16	0.08	0.03
0	2.69 *	2.07 *	1.69 *	1.20 *	0.76 *	0.45	0.23	0.16	0.08	0.03
-1	5.34 *	4.11 *	3.35 *	2.38 *	1.52 *	0.91	0.46	0.33	0.17	0.06
-3	5.26 *	4.03 *	3.29 *	2.34 *	1.51 *	0.90	0.46	0.33	0.17	0.06
-5	5.11 *	3.90 *	3.17 *	2.26 *	1.48 *	0.88	0.45	0.33	0.17	0.06
-7	4.89 *	3.72 *	3.01 *	2.16 *	1.43 *	0.86	0.44	0.32	0.17	0.06
-9	4.61 *	3.48 *	2.82 *	2.04 *	1.36 *	0.83	0.43	0.32	0.17	0.06
-11	4.28 *	3.21 *	2.60 *	1.90 *	1.28 *	0.79	0.42	0.31	0.16	0.05
-13	3.88 *	2.92 *	2.37 *	1.75 *	1.19	0.73	0.40	0.30	0.16	0.05
-15	3.45 *	2.59 *	2.13 *	1.60 *	1.09	0.68	0.37	0.28	0.16	0.05
-17	3.68 *	2.78 *	2.32 *	1.77 *	1.23	0.78	0.43	0.34	0.19	0.07
-19.5	3.53 *	2.72 *	2.33 *	1.80 *	1.27	0.83	0.47	0.38	0.22	0.08

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

LUMENS TABULATION - (Cont.)

-22.5	2.71 *	2.13 *	1.86 *	1.47	1.06	0.72	0.42	0.35	0.21	0.07
-25.5	2.36 *	1.88 *	1.67	1.35	1.01	0.71	0.43	0.37	0.23	0.08
-29	1.90	1.54	1.39	1.17	0.91	0.66	0.42	0.38	0.24	0.09
-33	1.40	1.17	1.10	0.96	0.78	0.59	0.40	0.37	0.25	0.10
-37.5	0.99	0.84	0.82	0.74	0.63	0.51	0.36	0.36	0.24	0.10
-42.5	0.63	0.55	0.55	0.51	0.45	0.39	0.29	0.30	0.21	0.09
-47.5	0.58	0.52	0.53	0.51	0.47	0.42	0.33	0.36	0.27	0.12
-55	0.41	0.38	0.41	0.42	0.40	0.36	0.30	0.34	0.27	0.14
-65	0.21	0.20	0.22	0.23	0.23	0.22	0.18	0.22	0.19	0.11
-75	0.11	0.11	0.12	0.13	0.13	0.13	0.11	0.13	0.13	0.08
-85	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.02
-90										
Total	116.08	89.73	75.56	57.45	40.46	26.76	15.69	13.20	8.20	3.23

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.00	0.00	0.35	
85				
	0.03	0.00	2.02	
75				
	0.04	0.00	3.67	
65				
	0.05	0.00	6.71	
55				
	0.04	0.00	9.03	
47.5				
	0.03	0.00	9.77	
42.5				
	0.03	0.00	15.58	
37.5				
	0.03	0.00	22.50	
33				
	0.03	0.00	30.57	
29				
	0.02	0.00	38.65	
25.5				
	0.02	0.00	44.85	
22.5				
	0.02	0.00	57.32	
19.5				
	0.02	0.00	57.51	
17				
	0.01	0.00	52.03	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

LUMENS TABULATION - (Cont.)

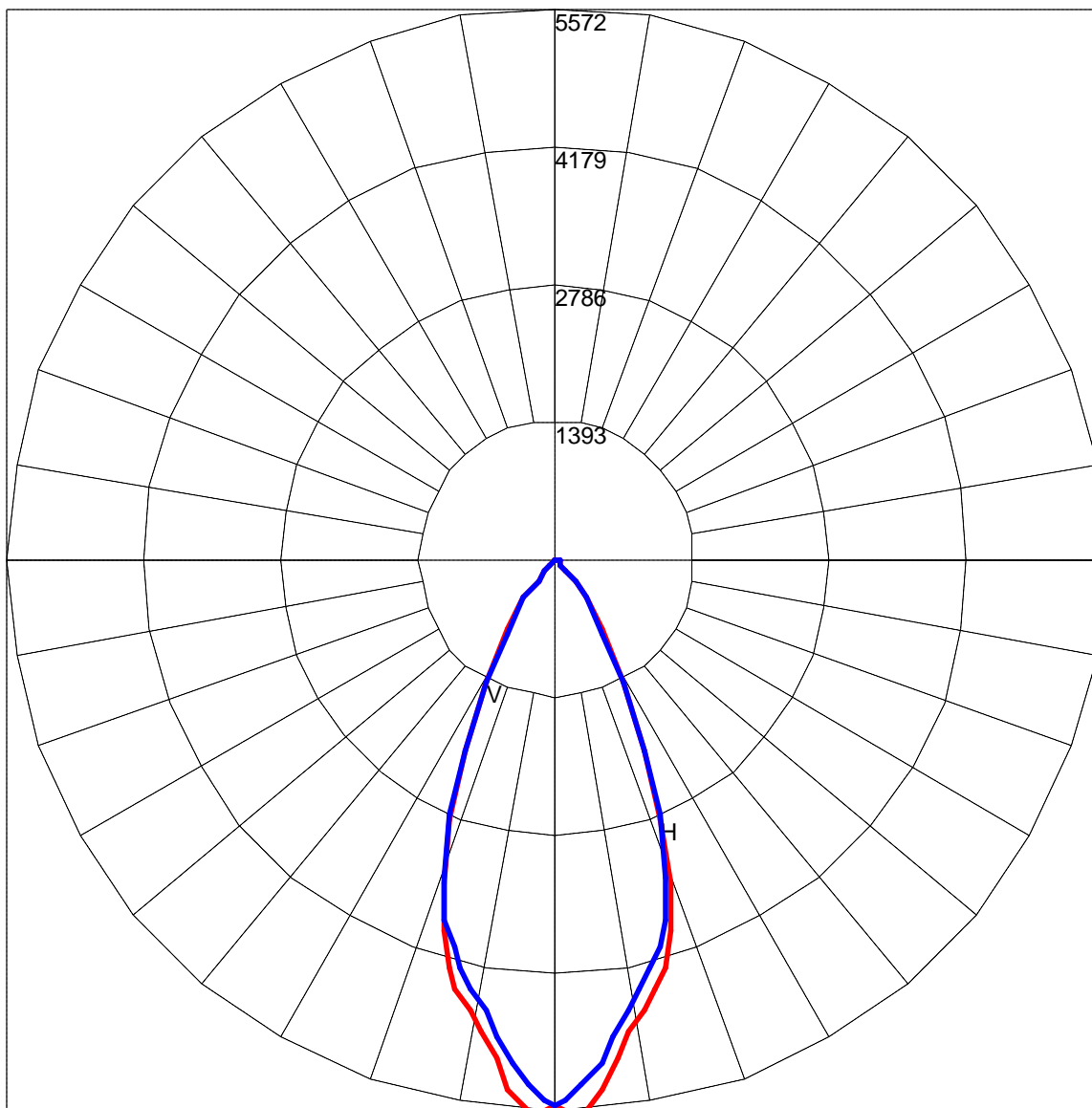
15			
	0.01	0.00	56.73
13			
	0.01	0.00	60.77
11			
	0.01	0.00	64.24
9			
	0.01	0.00	67.23
7			
	0.01	0.00	69.84
5			
	0.01	0.00	71.98
3			
	0.01	0.00	73.41
1			
	0.01	0.00	37.06
0			
	0.01	0.00	37.06
-1			
	0.01	0.00	73.40
-3			
	0.01	0.00	71.98
-5			
	0.01	0.00	69.83
-7			
	0.01	0.00	67.22
-9			
	0.01	0.00	64.23
-11			
	0.01	0.00	60.75
-13			
	0.01	0.00	56.70
-15			
	0.01	0.00	52.01
-17			
	0.02	0.00	57.50
-19.5			
	0.02	0.00	57.30
-22.5			
	0.02	0.00	44.82
-25.5			
	0.02	0.00	38.63
-29			
	0.03	0.00	30.55
-33			
	0.03	0.00	22.49
-37.5			
	0.03	0.00	15.58
-42.5			
	0.03	0.00	9.76
-47.5			
	0.04	0.00	9.02
-55			
	0.05	0.00	6.71
-65			
	0.04	0.00	3.66

IES FLOOD REPORT
PHOTOMETRIC FILENAME : XFLM-WF-LED-28-HO-CW.IES

LUMENS TABULATION - (Cont.)

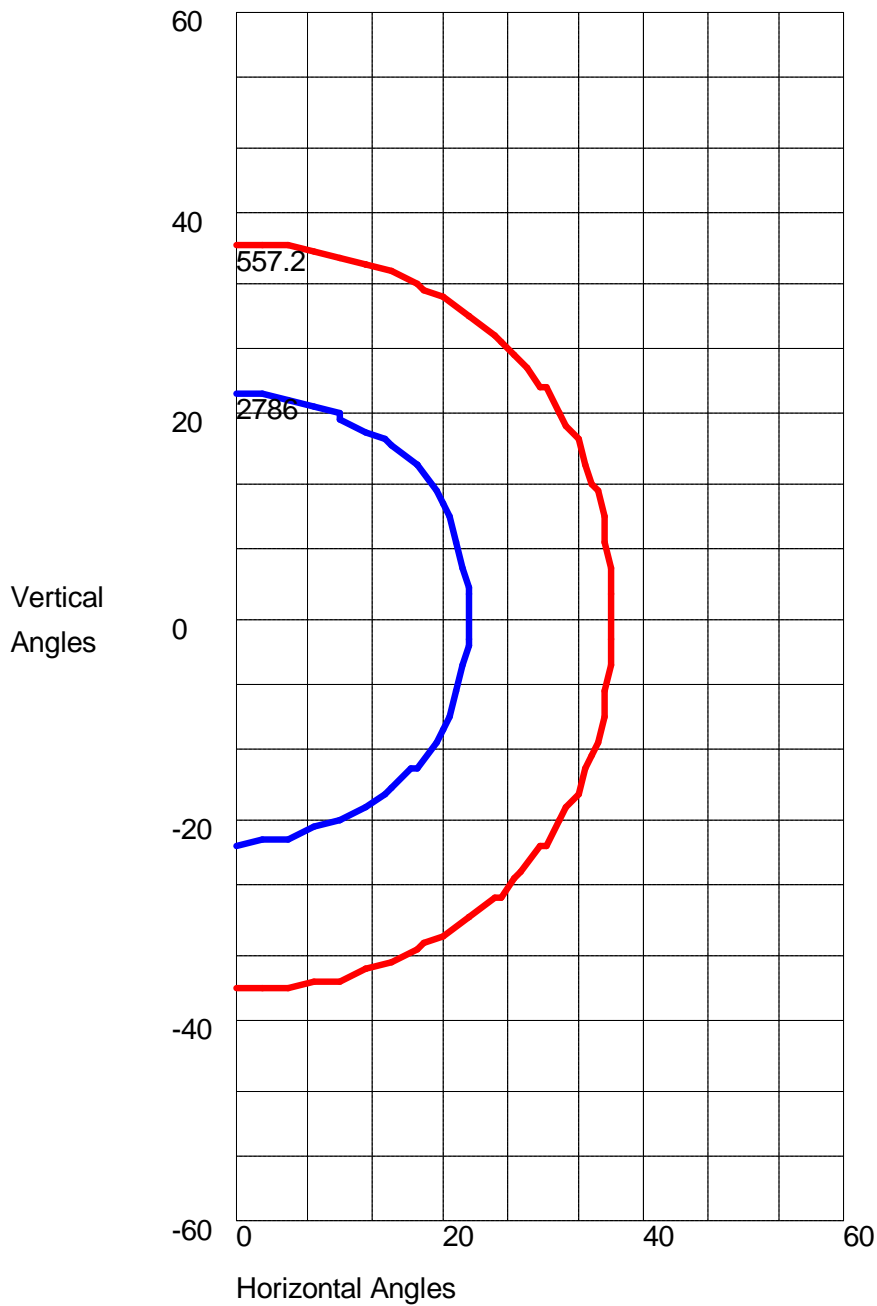
-75	0.03	0.00	2.01
-85	0.00	0.00	0.35
-90			
Total	0.95	0.04	1703.37

AXIAL CANDELA DISPLAY



Maximum Candela = 5572 Located At Horizontal Angle =-3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 5572 Located At Horizontal Angle = -3, Vertical Angle = 0
50% Maximum Candela = 2786
10% Maximum Candela = 557.2