



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13065
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 11/22/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-VNF-50-GS
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 5000

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

CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	548030
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	13.6
Vertical Beam Angle (50%)	14.2
Horizontal Field Angle (10%)	28.5
Vertical Field Angle (10%)	28.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	19003
Beam Efficiency	N.A.
Field Lumens	37057
Field Efficiency	N.A.
Spill Lumens	24583
Luminaire Lumens	61640
Total Efficiency	N.A.
Total Luminaire Watts	463
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	76	85	0
75	387	75	0
65	836	65	130
55	1683	55	905
47.5	3636	47.5	1937
42.5	5707	42.5	3522
37.5	8302	37.5	5781
33	10304	33	8153
29	11872	29	9939
25.5	13927	25.5	12084
22.5	17286	22.5	15365
19.5	22613	19.5	20964
17	31632	17	29910
15	45032	15	42116
13	70279	13	66572
11	110918	11	104975
9	174339	9	164975
7	268889	7	253827
5	403864	5	378390
3	511730	3	494828
1	543585	1	537681
0	546844	0	546844
-1	543585	-1	548030
-3	511730	-3	526731
-5	403864	-5	434419
-7	268889	-7	303378
-9	174339	-9	197765
-11	110918	-11	123965
-13	70279	-13	78325
-15	45032	-15	47158
-17	31632	-17	32984
-19.5	22613	-19.5	23075
-22.5	17286	-22.5	17661
-25.5	13927	-25.5	14674
-29	11872	-29	12683
-33	10304	-33	11160
-37.5	8302	-37.5	9186
-42.5	5707	-42.5	6693
-47.5	3636	-47.5	4338
-55	1683	-55	2146
-65	836	-65	1152
-75	387	-75	634
-85	76	-85	173
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 548030

Beam Edge = 274015 Cd (50% of Max.)

Field Edge = 54803 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	6	14	13	10	9	7	5	3	2
75.0	0	17	44	50	53	47	41	32	21	17
65.0	0	27	80	127	175	195	203	207	205	203
55.0	0	38	126	240	344	423	482	534	588	640
47.5	0	46	164	323	481	610	715	840	973	1116
42.5	0	51	193	381	582	789	969	1209	1499	1799
37.5	0	56	221	442	711	1025	1326	1781	2359	2962
33.0	0	60	245	502	845	1279	1764	2524	3404	4263
29.0	0	63	269	556	966	1555	2260	3346	4545	5645
25.5	0	66	290	604	1088	1806	2803	4138	5574	6858
22.5	0	68	306	640	1188	2084	3264	4811	6425	7902
19.5	0	69	322	676	1279	2344	3740	5476	7240	8791
17.0	0	71	333	705	1355	2566	4106	6008	7892	9384
15.0	0	72	342	727	1411	2753	4393	6401	8392	9837
13.0	0	73	350	747	1463	2923	4665	6792	8847	10252
11.0	0	75	358	766	1510	3076	4913	7153	9197	10650
9.0	0	75	365	782	1553	3211	5136	7474	9478	11025
7.0	0	75	371	797	1591	3329	5332	7748	9739	11326
5.0	0	75	379	810	1624	3431	5498	7975	9976	11557
3.0	0	76	382	823	1658	3552	5648	8146	10173	11734
1.0	0	76	385	832	1675	3608	5687	8268	10271	11840
0.0	0	76	387	836	1683	3636	5707	8302	10304	11872
-1.0	0	76	389	840	1694	3655	5735	8338	10339	11932
-3.0	0	76	393	847	1717	3691	5791	8355	10375	12004
-5.0	0	77	397	849	1721	3660	5741	8333	10364	11988
-7.0	0	77	396	852	1723	3627	5701	8263	10303	11921
-9.0	0	77	397	853	1712	3570	5624	8143	10190	11813
-11.0	0	78	397	851	1695	3490	5512	7973	10024	11668
-13.0	0	76	396	849	1672	3386	5364	7749	9806	11490
-15.0	0	75	395	844	1643	3258	5178	7480	9560	11281
-17.0	0	75	392	837	1609	3107	4962	7195	9279	10887
-19.5	0	74	387	827	1560	2914	4656	6782	8831	10326
-22.5	0	73	378	810	1505	2677	4211	6214	8126	9644
-25.5	0	71	368	792	1440	2408	3758	5603	7365	8868
-29.0	0	69	353	762	1351	2170	3220	4827	6383	7817
-33.0	0	67	333	725	1255	1895	2674	3931	5237	6420
-37.5	0	63	311	677	1141	1654	2166	2989	3983	4951
-42.5	0	59	283	618	1024	1413	1758	2227	2802	3404
-47.5	0	54	251	555	911	1203	1445	1748	2037	2356
-55.0	0	45	207	456	727	949	1091	1246	1397	1526
-65.0	0	33	144	305	492	636	731	818	895	950
-75.0	0	21	84	168	265	342	393	441	482	513
-85.0	0	7	29	55	82	101	114	125	134	141
-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	1	1	1	1	1	1	0	0	0
75.0	10	7	5	3	1	1	1	0	0	0
65.0	198	192	190	185	178	172	167	160	151	141
55.0	683	727	769	798	819	839	855	870	883	894
47.5	1229	1362	1460	1554	1642	1711	1764	1827	1875	1909
42.5	2130	2399	2666	2852	3005	3140	3247	3344	3426	3481
37.5	3488	3914	4340	4662	4896	5150	5365	5538	5649	5711
33.0	5001	5609	6200	6680	7014	7309	7545	7725	7868	7978
29.0	6572	7317	7972	8440	8773	9021	9237	9415	9578	9731
25.5	7935	8688	9302	9714	10093	10459	10780	11164	11483	11712
22.5	8941	9667	10323	10939	11522	12157	12688	13478	14152	14664
19.5	9805	10627	11557	12586	13623	14838	15962	17222	18347	19215
17.0	10492	11458	12782	14428	15894	17902	19723	22189	24459	26038
15.0	11019	12193	13984	16117	18331	20846	24401	27668	33305	37696
13.0	11504	12988	15437	18261	20969	25147	30790	38175	46078	56122 *
11.0	11969	13775	16836	20235	24373	30705	39953	53030	66920 *	82457 *
9.0	12523	14776	18428	23009	27908	38428	53373	71349 *	96489 *	119780 *
7.0	12996	15676	19820	25679	34387	47255	68105 *	97997 *	129516 *	177886 *
5.0	13354	16381	20896	27923	39531	57934 *	84054 *	121350 *	182444 *	246414 *
3.0	13633	16860	21900	30034	43044	65452 *	98681 *	147281 *	217553 *	333233 *
1.0	13849	17206	22496	31432	45045	69622 *	107314 *	166204 *	255753 *	394083 *
0.0	13927	17286	22613	31632	45032	70279 *	110918 *	174339 *	268889 *	403864 *
-1.0	14031	17470	22799	31847	45271	70196 *	108595 *	169113 *	260683 *	400926 *
-3.0	14094	17374	22371	30568	43604	67025 *	102447 *	156388 *	238817 *	357311 *
-5.0	13926	16864	21288	28292	40356	59868 *	88470 *	130457 *	196659 *	276851 *
-7.0	13686	16268	20315	26206	35380	49465	72199 *	104707 *	141947 *	208596 *
-9.0	13383	15629	19155	23759	29383	41108	57385 *	77141 *	107805 *	137880 *
-11.0	13026	14851	17828	21081	26048	33057	43298	57690 *	74181 *	93435 *
-13.0	12761	14257	16659	19398	22235	26918	32998	40953	50211	62692 *
-15.0	12413	13607	15475	17569	19815	22260	25973	29557	36037	41942
-17.0	12039	12991	14412	16109	17594	19427	21093	23942	26683	29142
-19.5	11570	12372	13255	14422	15511	16697	17860	19212	20447	21462
-22.5	10798	11616	12357	12996	13666	14372	15028	15861	16583	17106
-25.5	9931	10772	11546	12073	12470	12852	13189	13603	14001	14303
-29.0	8893	9692	10400	10975	11377	11663	11879	12058	12225	12409
-33.0	7464	8310	9048	9500	9802	10084	10363	10588	10765	10910
-37.5	5789	6472	7117	7612	7959	8242	8490	8701	8872	8999
-42.5	4049	4565	5048	5401	5663	5900	6105	6281	6425	6534
-47.5	2643	2961	3246	3490	3694	3871	4019	4142	4242	4319
-55.0	1642	1732	1822	1903	1963	2019	2060	2089	2111	2126
-65.0	997	1029	1057	1077	1091	1103	1114	1124	1131	1136
-75.0	537	555	573	587	598	606	613	619	625	632
-85.0	146	152	158	162	166	166	170	169	169	168
-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	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	138	133	130	133	138	141	151	160	167	172

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CANDELA TABULATION - (Cont.)

55.0	907	906	905	906	907	894	883	870	855	839
47.5	1945	1940	1937	1940	1945	1909	1875	1827	1764	1711
42.5	3542	3529	3522	3529	3542	3481	3426	3344	3247	3140
37.5	5726	5779	5781	5779	5726	5711	5649	5538	5365	5150
33.0	8043	8127	8153	8127	8043	7978	7868	7725	7545	7309
29.0	9815	9903	9939	9903	9815	9731	9578	9415	9237	9021
25.5	11851	12005	12084	12005	11851	11712	11483	11164	10780	10459
22.5	15007	15281	15365	15281	15007	14664	14152	13478	12688	12157
19.5	20181	20828	20964	20828	20181	19215	18347	17222	15962	14838
17.0	28340	29919	29910	29919	28340	26038	24459	22189	19723	17902
15.0	40851	42495	42116	42495	40851	37696	33305	27668	24401	20846
13.0	63220 *	66654 *	66572 *	66654 *	63220 *	56122 *	46078	38175	30790	25147
11.0	97209 *	104788 *	104975 *	104788 *	97209 *	82457 *	66920 *	53030	39953	30705
9.0	146680 *	163798 *	164975 *	163798 *	146680 *	119780 *	96489 *	71349 *	53373	38428
7.0	217291 *	250941 *	253827 *	250941 *	217291 *	177886 *	129516 *	97997 *	68105 *	47255
5.0	327937 *	384830 *	378390 *	384830 *	327937 *	246414 *	182444 *	121350 *	84054 *	57934 *
3.0	423538 *	491055 *	494828 *	491055 *	423538 *	333233 *	217553 *	147281 *	98681 *	65452 *
1.0	493249 *	535233 *	537681 *	535233 *	493249 *	394083 *	255753 *	166204 *	107314 *	69622 *
0.0	511730 *	543585 *	546844 *	543585 *	511730 *	403864 *	268889 *	174339 *	110918 *	70279 *
-1.0	504767 *	545019 *	548030 *	545019 *	504767 *	400926 *	260683 *	169113 *	108595 *	70196 *
-3.0	454813 *	516049 *	526731 *	516049 *	454813 *	357311 *	238817 *	156388 *	102447 *	67025 *
-5.0	374917 *	427367 *	434419 *	427367 *	374917 *	276851 *	196659 *	130457 *	88470 *	59868 *
-7.0	259930 *	291691 *	303378 *	291691 *	259930 *	208596 *	141947 *	104707 *	72199 *	49465
-9.0	169531 *	190267 *	197765 *	190267 *	169531 *	137880 *	107805 *	77141 *	57385 *	41108
-11.0	110291 *	119893 *	123965 *	119893 *	110291 *	93435 *	74181 *	57690 *	43298	33057
-13.0	71718 *	76508 *	78325 *	76508 *	71718 *	62692 *	50211	40953	32998	26918
-15.0	46186	48157	47158	48157	46186	41942	36037	29557	25973	22260
-17.0	31741	33238	32984	33238	31741	29142	26683	23942	21093	19427
-19.5	22565	23132	23075	23132	22565	21462	20447	19212	17860	16697
-22.5	17387	17602	17661	17602	17387	17106	16583	15861	15028	14372
-25.5	14475	14613	14674	14613	14475	14303	14001	13603	13189	12852
-29.0	12541	12646	12683	12646	12541	12409	12225	12058	11879	11663
-33.0	11015	11121	11160	11121	11015	10910	10765	10588	10363	10084
-37.5	9079	9168	9186	9168	9079	8999	8872	8701	8490	8242
-42.5	6652	6679	6693	6679	6652	6534	6425	6281	6105	5900
-47.5	4386	4354	4338	4354	4386	4319	4242	4142	4019	3871
-55.0	2145	2146	2146	2146	2145	2126	2111	2089	2060	2019
-65.0	1145	1150	1152	1150	1145	1136	1131	1124	1114	1103
-75.0	633	634	634	634	633	632	625	619	613	606
-85.0	170	172	173	172	170	168	169	169	170	166
-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	1	1	1	1	1	2	3	5	7	9
75.0	1	3	5	7	10	17	21	32	41	47
65.0	178	185	190	192	198	203	205	207	203	195
55.0	819	798	769	727	683	640	588	534	482	423
47.5	1642	1554	1460	1362	1229	1116	973	840	715	610
42.5	3005	2852	2666	2399	2130	1799	1499	1209	969	789
37.5	4896	4662	4340	3914	3488	2962	2359	1781	1326	1025
33.0	7014	6680	6200	5609	5001	4263	3404	2524	1764	1279
29.0	8773	8440	7972	7317	6572	5645	4545	3346	2260	1555
25.5	10093	9714	9302	8688	7935	6858	5574	4138	2803	1806

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CANDELA TABULATION - (Cont.)

22.5	11522	10939	10323	9667	8941	7902	6425	4811	3264	2084
19.5	13623	12586	11557	10627	9805	8791	7240	5476	3740	2344
17.0	15894	14428	12782	11458	10492	9384	7892	6008	4106	2566
15.0	18331	16117	13984	12193	11019	9837	8392	6401	4393	2753
13.0	20969	18261	15437	12988	11504	10252	8847	6792	4665	2923
11.0	24373	20235	16836	13775	11969	10650	9197	7153	4913	3076
9.0	27909	23009	18428	14776	12523	11025	9478	7474	5136	3211
7.0	34387	25679	19820	15676	12996	11326	9739	7748	5332	3329
5.0	39531	27923	20896	16381	13354	11557	9976	7975	5498	3431
3.0	43044	30034	21900	16860	13633	11734	10173	8146	5648	3552
1.0	45045	31432	22496	17206	13849	11840	10271	8268	5687	3608
0.0	45032	31632	22613	17286	13927	11872	10304	8302	5707	3636
-1.0	45271	31847	22799	17470	14031	11932	10339	8338	5735	3655
-3.0	43604	30568	22371	17374	14094	12004	10375	8355	5791	3691
-5.0	40356	28292	21288	16864	13926	11988	10364	8333	5741	3660
-7.0	35380	26206	20315	16268	13686	11921	10303	8263	5701	3627
-9.0	29383	23759	19155	15629	13383	11813	10190	8143	5624	3570
-11.0	26048	21081	17828	14851	13026	11668	10024	7973	5512	3490
-13.0	22235	19398	16659	14257	12761	11490	9806	7749	5364	3386
-15.0	19815	17569	15475	13607	12413	11281	9560	7480	5178	3258
-17.0	17594	16109	14412	12991	12039	10887	9279	7195	4962	3107
-19.5	15511	14422	13255	12372	11570	10326	8831	6782	4656	2914
-22.5	13666	12996	12357	11616	10798	9644	8126	6214	4211	2677
-25.5	12470	12073	11546	10772	9931	8868	7365	5603	3758	2408
-29.0	11377	10975	10400	9692	8893	7817	6383	4827	3220	2170
-33.0	9802	9500	9048	8310	7464	6420	5237	3931	2674	1895
-37.5	7959	7612	7117	6472	5789	4951	3983	2989	2166	1654
-42.5	5663	5401	5048	4565	4049	3404	2802	2227	1758	1413
-47.5	3694	3490	3246	2961	2643	2356	2037	1748	1445	1203
-55.0	1963	1903	1822	1732	1642	1526	1397	1246	1091	949
-65.0	1091	1077	1057	1029	997	950	895	818	731	636
-75.0	598	587	573	555	537	513	482	441	393	342
-85.0	166	162	158	152	146	141	134	125	114	101
-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	10	13	14	6	0
75.0	53	50	44	17	0
65.0	175	127	80	27	0
55.0	344	240	126	38	0
47.5	481	323	164	46	0
42.5	582	381	193	51	0
37.5	711	442	221	56	0
33.0	845	502	245	60	0
29.0	966	556	269	63	0
25.5	1088	604	290	66	0
22.5	1188	640	306	68	0
19.5	1279	676	322	69	0
17.0	1355	705	333	71	0
15.0	1411	727	342	72	0
13.0	1463	747	350	73	0
11.0	1510	766	358	75	0
9.0	1553	782	365	75	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

CANDELA TABULATION - (Cont.)

7.0	1591	797	371	75	0
5.0	1624	810	379	75	0
3.0	1658	823	382	76	0
1.0	1675	832	385	76	0
0.0	1683	836	387	76	0
-1.0	1694	840	389	76	0
-3.0	1717	847	393	76	0
-5.0	1721	849	397	77	0
-7.0	1723	852	396	77	0
-9.0	1712	853	397	77	0
-11.0	1695	851	397	78	0
-13.0	1672	849	396	76	0
-15.0	1643	844	395	75	0
-17.0	1609	837	392	75	0
-19.5	1560	827	387	74	0
-22.5	1505	810	378	73	0
-25.5	1440	792	368	71	0
-29.0	1351	762	353	69	0
-33.0	1255	725	333	67	0
-37.5	1141	677	311	63	0
-42.5	1024	618	283	59	0
-47.5	911	555	251	54	0
-55.0	727	456	207	45	0
-65.0	492	305	144	33	0
-75.0	265	168	84	21	0
-85.0	82	55	29	7	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 30819.8

Total Field Lumens (one side of beam only) = 18528.35

* 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	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02
65	0.20	0.41	0.42	0.44	0.47	0.49	0.51	0.52	0.54	0.69
55	1.58	3.17	3.16	3.13	3.11	3.08	3.03	2.97	2.90	3.51
47.5	3.25	6.50	6.44	6.32	6.17	5.98	5.78	5.55	5.28	6.21
42.5	4.16	8.34	8.26	8.10	7.90	7.64	7.35	7.02	6.63	7.71
37.5	7.09	14.14	14.02	13.83	13.54	13.12	12.59	11.96	11.28	13.13
33	9.54	18.96	18.77	18.54	18.18	17.67	17.01	16.21	15.32	17.80
29	11.00	21.85	21.61	21.30	20.86	20.35	19.73	18.98	18.10	21.18
25.5	11.71	23.21	22.92	22.53	21.98	21.31	20.59	19.83	18.97	22.42
22.5	12.50	24.72	24.26	23.63	22.75	21.65	20.60	19.61	18.56	21.85
19.5	16.55	32.56	31.48	30.16	28.59	26.71	24.87	23.12	21.38	24.63
17	19.35	37.77	35.62	33.35	31.00	28.16	25.48	23.00	20.69	23.21
15	22.00	43.11	40.39	36.81	32.46	28.19	24.69	21.57	18.96	20.72
13	33.18	64.91	60.13	52.47	43.81	36.31	30.15	25.21	21.57	23.07
11	52.24 *	101.03 *	90.86 *	76.21 *	61.60	48.58	37.72	29.91	24.55	25.59
9	82.02 *	156.01 *	135.56 *	110.77 *	86.81 *	65.31	48.40	35.88	27.97	28.39
7	126.95 *	237.05 *	201.05 *	158.64 *	119.25 *	87.24 *	61.72	43.74	32.50	31.44
5	193.12 *	359.52 *	294.60 *	223.04 *	160.26 *	111.44 *	76.68 *	52.94	37.34	34.10
3	266.39 *	495.40 *	404.47 *	296.77 *	201.68 *	135.40 *	91.21 *	60.87	41.15	36.43
1	313.56 *	591.50 *	499.58 *	363.71 *	237.33 *	155.83 *	101.62 *	65.96 *	43.79	38.28
0	164.74 *	317.17 *	273.92 *	200.33 *	130.49 *	83.81 *	53.35 *	33.99 *	22.42	19.56
-1	166.27 *	320.41 *	276.71 *	202.11 *	131.67 *	84.44 *	53.63 *	34.10 *	22.51	19.69
	325.29 *	615.12 *	521.98 *	381.01 *	248.85 *	160.95 *	103.76 *	66.82 *	44.30	38.90

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

-3	290.07 *	539.77 *	444.82 *	324.03 *	217.88 *	143.32 *	94.69 *	62.32	41.82	37.07
-5	221.88 *	412.15 *	340.41 *	249.63 *	173.07 *	118.74 *	80.45 *	54.70	38.13	34.75
-7	149.73 *	277.45 *	235.78 *	180.62 *	130.19 *	93.42 *	65.59 *	45.91	33.59	32.34
-9	96.24 *	179.60 *	155.31 *	125.20 *	95.56 *	70.65 *	52.10	38.30	29.36	29.59
-11	60.72 *	115.19 *	102.75 *	84.98 *	67.28 *	52.48	40.60	32.00	25.99	27.11
-13	38.10 *	73.84 *	67.62 *	57.82	47.28	38.84	32.22	26.96	23.14	24.99
-15	24.60	48.50	45.28	40.53	35.06	30.17	26.44	23.38	20.81	22.98
-17	21.40	42.11	39.85	37.01	34.04	30.79	27.96	25.58	23.29	26.30
-19.5	18.61	36.84	35.79	34.35	32.62	30.58	28.58	26.71	24.86	28.76
-22.5	14.75	29.26	28.84	28.17	27.17	25.95	24.78	23.66	22.49	26.56
-25.5	14.56	28.91	28.57	28.06	27.39	26.63	25.85	25.01	24.03	28.47
-29	14.50	28.81	28.49	28.06	27.53	26.93	26.21	25.37	24.39	28.87
-33	13.92	27.66	27.35	26.95	26.42	25.74	24.92	24.00	22.97	27.07
-37.5	12.08	24.03	23.75	23.35	22.83	22.18	21.41	20.51	19.50	22.76
-42.5	8.40	16.80	16.63	16.30	15.90	15.41	14.82	14.13	13.36	15.53
-47.5	7.42	14.88	14.79	14.54	14.23	13.85	13.37	12.80	12.13	14.18
-55	5.02	10.02	9.95	9.85	9.74	9.58	9.38	9.13	8.83	10.59
-65	2.72	5.42	5.39	5.34	5.28	5.20	5.12	5.02	4.91	5.96
-75	1.23	2.45	2.44	2.41	2.39	2.36	2.32	2.27	2.22	2.68
-85	0.13	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.29
-90										
Total	2858.75	5406.83	4640.27	3600.66	2640.87	1946.71	1457.53	1117.76	892.78	925.39

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04
85	0.03	0.04	0.07	0.11	0.17	0.25	0.28	0.43	0.48	0.31
75	0.84	0.85	1.01	1.16	1.30	1.41	1.31	1.68	1.54	0.78
65	4.01	3.76	4.08	4.27	4.29	4.16	3.51	4.06	3.37	1.49
55	6.91	6.26	6.52	6.49	6.16	5.62	4.50	4.98	3.96	1.66

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

47.5										
	8.41	7.43	7.43	7.03	6.32	5.44	4.15	4.40	3.36	1.38
42.5	14.20	12.45	12.30	11.25	9.58	7.71	5.53	5.55	4.02	1.61
37.5	19.25	16.91	16.75	15.26	12.68	9.70	6.53	6.21	4.28	1.65
33	23.12	20.45	20.36	18.65	15.47	11.54	7.38	6.64	4.36	1.64
29	24.84	22.29	22.40	20.67	17.24	12.81	7.94	6.77	4.28	1.57
25.5	24.30	22.06	22.49	20.96	17.58	13.14	8.04	6.61	4.02	1.44
22.5	26.98	24.44	25.19	23.78	20.10	15.13	9.23	7.39	4.32	1.52
19.5	24.75	22.11	22.79	21.74	18.62	14.09	8.58	6.74	3.82	1.32
17	21.50	18.85	19.30	18.54	16.06	12.19	7.44	5.78	3.19	1.10
15	23.29	19.91	20.19	19.49	17.03	12.98	7.93	6.11	3.31	1.13
13	25.18	20.97	21.03	20.33	17.90	13.72	8.39	6.41	3.41	1.16
11	27.22	22.14	21.88	21.07	18.63	14.39	8.79	6.68	3.51	1.18
9	29.30	23.36	22.68	21.70	19.27	14.98	9.16	6.92	3.59	1.20
7	31.04	24.38	23.33	22.24	19.83	15.49	9.47	7.13	3.67	1.23
5	32.43	25.14	23.82	22.68	20.30	15.90	9.76	7.33	3.74	1.25
3	33.47	25.69	24.19	22.98	20.62	16.18	9.96	7.50	3.79	1.26
1	16.98	12.99	12.20	11.56	10.39	8.15	5.02	3.79	1.91	0.63
0	17.10	13.09	12.26	11.60	10.43	8.19	5.04	3.81	1.92	0.64
-1	34.13	26.28	24.67	23.31	20.93	16.46	10.16	7.69	3.88	1.28
-3	33.23	25.98	24.65	23.35	20.94	16.46	10.17	7.71	3.90	1.29
-5	31.88	25.35	24.41	23.27	20.85	16.35	10.08	7.67	3.91	1.30
-7	30.44	24.61	24.07	23.09	20.65	16.17	9.97	7.60	3.91	1.30
-9	28.77	23.74	23.64	22.81	20.33	15.89	9.80	7.48	3.89	1.30
-11	27.13	22.91	23.19	22.44	19.89	15.51	9.56	7.32	3.85	1.30
-13	25.59	22.14	22.72	22.00	19.36	15.03	9.25	7.12	3.81	1.29
-15	24.09	21.31	22.09	21.41	18.75	14.47	8.89	6.87	3.75	1.28
-17	28.27	25.55	26.55	25.66	22.44	17.20	10.52	8.21	4.59	1.59
-19.5	31.73	29.02	30.09	28.92	25.14	19.13	11.67	9.28	5.36	1.87

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

-22.5	29.62	26.99	27.89	26.63	22.92	17.31	10.54	8.61	5.19	1.83
-25.5	31.66	28.70	29.45	27.81	23.68	17.77	10.89	9.21	5.78	2.07
-29	31.95	28.68	28.99	27.00	22.81	17.09	10.72	9.53	6.23	2.26
-33	29.70	26.33	26.25	24.19	20.32	15.43	10.16	9.56	6.50	2.40
-37.5	24.74	21.78	21.55	19.76	16.79	13.33	9.41	9.35	6.58	2.46
-42.5	16.87	14.84	14.75	13.83	12.33	10.47	7.83	8.13	5.91	2.22
-47.5	15.61	14.05	14.51	14.32	13.49	12.09	9.46	10.15	7.56	2.87
-55	12.03	11.27	12.12	12.45	12.19	11.33	9.17	10.02	7.53	2.89
-65	6.85	6.51	7.10	7.41	7.38	6.95	5.66	6.20	4.68	1.82
-75	3.07	2.90	3.17	3.32	3.31	3.13	2.56	2.82	2.17	0.87
-85	0.33	0.31	0.34	0.36	0.36	0.35	0.29	0.33	0.26	0.11
-90										
Total	932.83	794.82	794.48	756.94	664.85	521.09	334.71	283.76	173.13	62.79

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.01	0.00	0.20
85			
	0.11	0.00	2.32
75			
	0.22	0.01	16.81
65			
	0.36	0.01	67.01
55			
	0.37	0.01	110.94
47.5			
	0.30	0.01	128.76
42.5			
	0.34	0.01	209.25
37.5			
	0.35	0.01	277.57
33			
	0.34	0.01	324.92
29			
	0.32	0.01	346.60
25.5			
	0.29	0.01	351.05
22.5			
	0.30	0.01	418.42
19.5			
	0.26	0.01	422.45
17			
	0.22	0.00	413.07

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

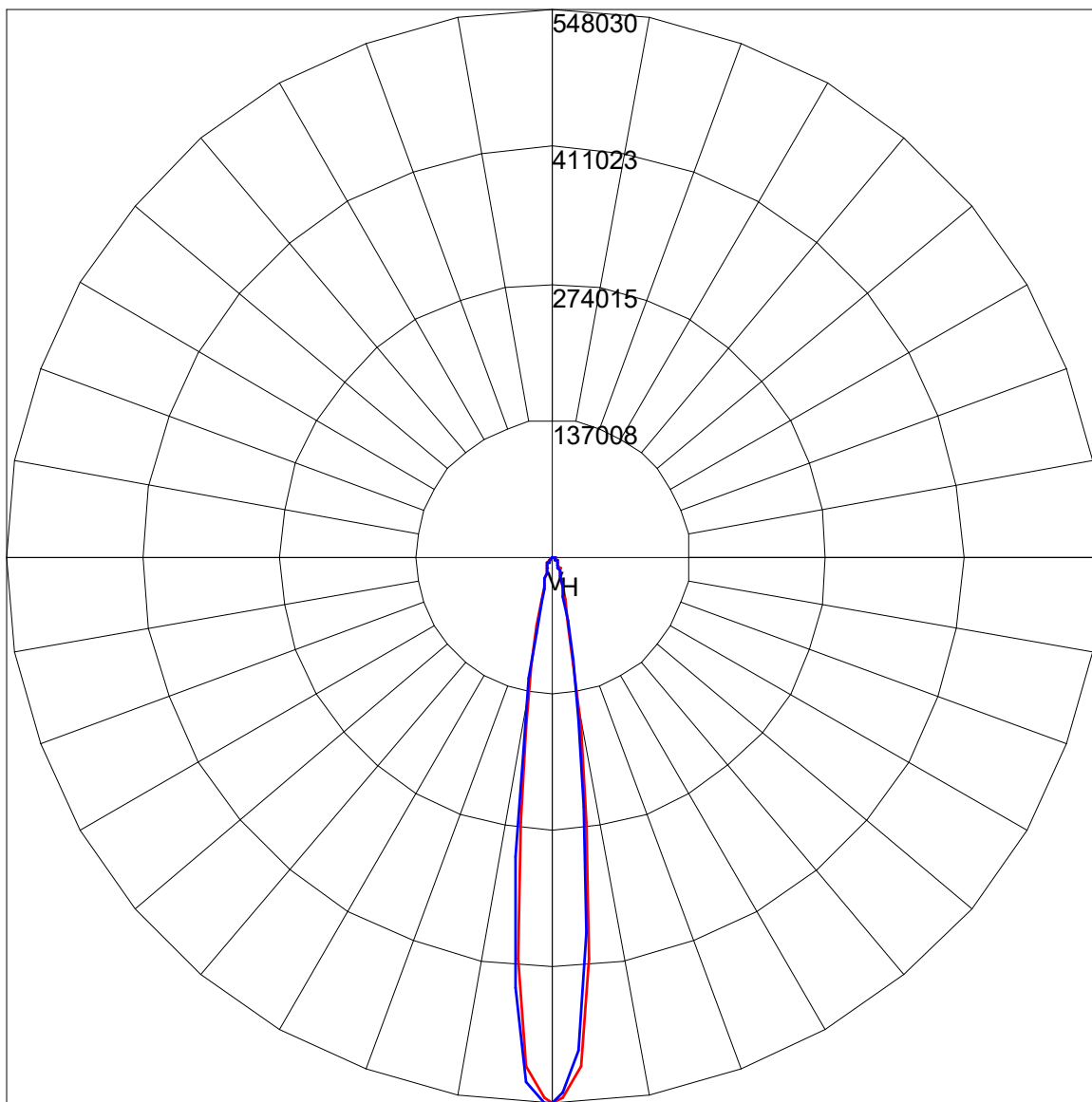
15	0.22	0.00	522.38
13	0.23	0.00	686.99
11	0.23	0.00	922.84
9	0.23	0.00	1251.98
7	0.24	0.00	1701.06
5	0.24	0.01	2192.36
3	0.24	0.01	2577.04
1	0.12	0.00	1383.52
0	0.12	0.00	1395.75
-1	0.25	0.01	2676.02
-3	0.25	0.01	2363.72
-5	0.25	0.01	1889.25
-7	0.25	0.01	1406.68
-9	0.25	0.01	1029.82
-11	0.25	0.01	762.45
-13	0.25	0.01	579.37
-15	0.25	0.00	460.93
-17	0.31	0.01	479.24
-19.5	0.36	0.01	490.30
-22.5	0.35	0.01	429.51
-25.5	0.40	0.01	444.90
-29	0.43	0.01	444.87
-33	0.46	0.01	418.32
-37.5	0.47	0.01	358.62
-42.5	0.43	0.01	254.90
-47.5	0.55	0.01	246.87
-55	0.57	0.01	193.67
-65	0.37	0.01	111.29

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

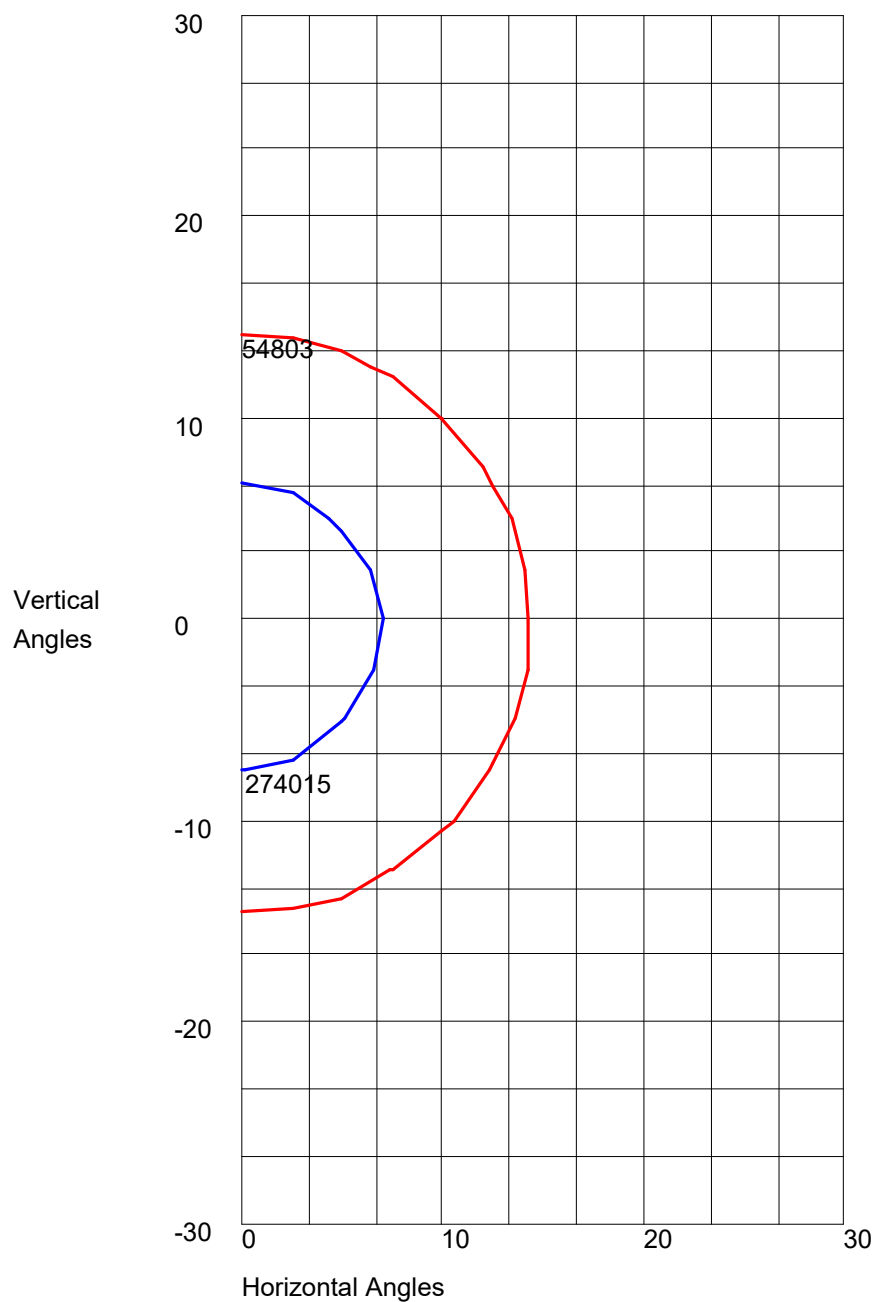
-75	0.19	0.00	50.24
-85	0.02	0.00	5.50
-90			
Total	12.57	0.29	30819.78

AXIAL CANDELA DISPLAY



Maximum Candela = 548030 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 548030 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 274015
10% Maximum Candela = 54803