



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-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-40-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] 4000

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

CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	543192
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	18835
Beam Efficiency	N.A.
Field Lumens	36730
Field Efficiency	N.A.
Spill Lumens	24366
Luminaire Lumens	61095
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	75	85	0
75	384	75	0
65	829	65	129
55	1668	55	897
47.5	3604	47.5	1920
42.5	5657	42.5	3491
37.5	8229	37.5	5730
33	10213	33	8081
29	11768	29	9851
25.5	13804	25.5	11977
22.5	17133	22.5	15229
19.5	22414	19.5	20779
17	31352	17	29646
15	44634	15	41744
13	69659	13	65984
11	109939	11	104048
9	172800	9	163518
7	266515	7	251586
5	400299	5	375050
3	507213	3	490460
1	538787	1	532935
0	542017	0	542017
-1	538787	-1	543192
-3	507213	-3	522081
-5	400299	-5	430584
-7	266515	-7	300700
-9	172800	-9	196020
-11	109939	-11	122871
-13	69659	-13	77634
-15	44634	-15	46742
-17	31352	-17	32692
-19.5	22414	-19.5	22871
-22.5	17133	-22.5	17505
-25.5	13804	-25.5	14544
-29	11768	-29	12571
-33	10213	-33	11062
-37.5	8229	-37.5	9105
-42.5	5657	-42.5	6634
-47.5	3604	-47.5	4300
-55	1668	-55	2127
-65	829	-65	1142
-75	384	-75	628
-85	75	-85	171
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 543192

Beam Edge = 271596 Cd (50% of Max.)

Field Edge = 54319.2 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	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	79	126	173	193	201	205	203	201
55.0	0	38	125	237	341	420	478	529	583	634
47.5	0	46	163	320	476	605	708	832	964	1107
42.5	0	51	191	377	577	781	961	1199	1486	1783
37.5	0	55	219	438	705	1016	1313	1766	2338	2936
33.0	0	59	243	497	837	1268	1748	2502	3374	4225
29.0	0	62	267	551	957	1542	2240	3317	4505	5595
25.5	0	65	287	599	1078	1790	2779	4101	5525	6798
22.5	0	67	304	634	1178	2066	3236	4768	6369	7832
19.5	0	68	319	670	1268	2324	3707	5428	7176	8713
17.0	0	70	331	699	1343	2544	4070	5955	7822	9302
15.0	0	71	339	720	1399	2728	4355	6345	8318	9750
13.0	0	72	348	740	1450	2897	4624	6732	8769	10161
11.0	0	74	355	759	1497	3049	4870	7091	9116	10556
9.0	0	74	362	775	1540	3183	5091	7408	9395	10927
7.0	0	74	368	790	1577	3299	5284	7680	9654	11226
5.0	0	74	376	803	1610	3400	5449	7904	9888	11455
3.0	0	75	379	816	1644	3521	5598	8074	10083	11630
1.0	0	75	382	825	1660	3576	5637	8195	10181	11735
0.0	0	75	384	829	1668	3604	5657	8229	10213	11768
-1.0	0	75	386	833	1679	3622	5684	8264	10247	11827
-3.0	0	75	390	840	1702	3659	5739	8281	10283	11898
-5.0	0	76	394	842	1705	3628	5690	8259	10272	11883
-7.0	0	76	393	844	1708	3595	5650	8190	10212	11816
-9.0	0	76	394	845	1697	3539	5574	8071	10100	11709
-11.0	0	77	394	844	1680	3459	5463	7903	9935	11565
-13.0	0	75	393	841	1657	3356	5316	7680	9720	11388
-15.0	0	74	391	836	1628	3229	5132	7414	9476	11182
-17.0	0	74	388	830	1595	3079	4918	7131	9197	10791
-19.5	0	73	384	819	1546	2888	4615	6722	8753	10235
-22.5	0	72	375	802	1492	2653	4174	6159	8054	9559
-25.5	0	71	364	785	1427	2387	3724	5553	7300	8789
-29.0	0	69	350	755	1339	2151	3191	4785	6326	7748
-33.0	0	66	330	719	1244	1879	2651	3897	5191	6363
-37.5	0	63	308	671	1131	1640	2146	2963	3948	4907
-42.5	0	58	280	613	1015	1401	1743	2207	2777	3374
-47.5	0	54	249	551	903	1192	1432	1733	2019	2335
-55.0	0	45	205	451	720	940	1081	1235	1385	1512
-65.0	0	33	142	302	488	630	724	811	887	942
-75.0	0	21	84	166	263	339	389	437	478	509
-85.0	0	7	29	54	81	100	113	124	133	140
-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	196	190	188	183	177	170	165	158	150	140
55.0	677	720	762	790	812	832	848	862	875	886
47.5	1218	1350	1448	1540	1627	1696	1748	1811	1859	1892
42.5	2111	2377	2643	2826	2979	3112	3218	3315	3396	3451
37.5	3457	3879	4302	4621	4853	5105	5318	5489	5599	5660
33.0	4957	5560	6146	6621	6952	7245	7479	7657	7799	7907
29.0	6514	7252	7902	8365	8696	8942	9156	9331	9493	9644
25.5	7865	8612	9220	9628	10004	10366	10684	11065	11381	11609
22.5	8862	9582	10232	10842	11420	12049	12576	13359	14027	14535
19.5	9719	10533	11456	12475	13503	14707	15821	17070	18185	19046
17.0	10399	11357	12669	14300	15754	17744	19549	21993	24243	25809
15.0	10922	12086	13860	15975	18169	20662	24185	27423	33011	37363
13.0	11403	12873	15300	18100	20784	24925	30518	37838	45671	55627 *
11.0	11863	13653	16688	20057	24158	30435	39600	52562	66330 *	81729 *
9.0	12413	14646	18265	22806	27662	38089	52902	70718 *	95637 *	118722 *
7.0	12881	15537	19645	25452	34083	46837	67504 *	97132 *	128373 *	176316 *
5.0	13236	16236	20711	27677	39183	57423 *	83312 *	120279 *	180833 *	244239 *
3.0	13513	16711	21707	29769	42664	64874 *	97810 *	145981 *	215632 *	330291 *
1.0	13727	17054	22297	31155	44647	69007 *	106367 *	164737 *	253495 *	390603 *
0.0	13804	17133	22414	31352	44634	69659 *	109939 *	172800 *	266515 *	400299 *
-1.0	13907	17316	22598	31565	44871	69577 *	107637 *	167620 *	258382 *	397387 *
-3.0	13970	17221	22173	30298	43219	66433 *	101542 *	155007 *	236709 *	354156 *
-5.0	13803	16716	21100	28043	40000	59340 *	87689 *	129305 *	194923 *	274407 *
-7.0	13565	16125	20136	25975	35068	49028	71562 *	103783 *	140694 *	206754 *
-9.0	13265	15491	18986	23550	29124	40745	56878 *	76459 *	106853 *	136662 *
-11.0	12911	14720	17671	20895	25819	32765	42915	57180 *	73527 *	92610 *
-13.0	12648	14132	16512	19227	22039	26680	32707	40591	49767	62138 *
-15.0	12304	13487	15338	17414	19640	22064	25744	29296	35719	41571
-17.0	11933	12877	14285	15967	17438	19255	20907	23730	26447	28885
-19.5	11467	12263	13137	14295	15374	16549	17702	19043	20266	21272
-22.5	10703	11513	12248	12881	13545	14245	14895	15721	16437	16955
-25.5	9843	10677	11444	11966	12360	12738	13073	13483	13877	14176
-29.0	8815	9606	10308	10878	11276	11560	11774	11952	12118	12299
-33.0	7399	8237	8968	9416	9716	9995	10272	10495	10670	10814
-37.5	5737	6414	7054	7545	7889	8169	8415	8624	8794	8919
-42.5	4013	4525	5003	5354	5613	5848	6051	6225	6368	6476
-47.5	2620	2935	3217	3459	3662	3836	3984	4106	4205	4280
-55.0	1627	1717	1805	1886	1946	2001	2042	2071	2093	2107
-65.0	988	1020	1047	1067	1081	1093	1105	1114	1121	1126
-75.0	533	551	568	581	592	600	607	614	619	626
-85.0	145	151	156	160	164	165	168	168	167	167
-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	137	132	129	132	137	140	150	158	165	170

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CANDELA TABULATION - (Cont.)

55.0	899	898	897	898	899	886	875	862	848	832
47.5	1928	1923	1920	1923	1928	1892	1859	1811	1748	1696
42.5	3511	3498	3491	3498	3511	3451	3396	3315	3218	3112
37.5	5675	5728	5730	5728	5675	5660	5599	5489	5318	5105
33.0	7972	8055	8081	8055	7972	7907	7799	7657	7479	7245
29.0	9729	9816	9851	9816	9729	9644	9493	9331	9156	8942
25.5	11747	11899	11977	11899	11747	11609	11381	11065	10684	10366
22.5	14875	15146	15229	15146	14875	14535	14027	13359	12576	12049
19.5	20004	20645	20779	20645	20004	19046	18185	17070	15821	14707
17.0	28090	29655	29646	29655	28090	25809	24243	21993	19549	17744
15.0	40491	42120	41744	42120	40491	37363	33011	27423	24185	20662
13.0	62662 *	66066 *	65984 *	66066 *	62662 *	55627 *	45671	37838	30518	24925
11.0	96351 *	103863 *	104048 *	103863 *	96351 *	81729 *	66330 *	52562	39600	30435
9.0	145385 *	162352 *	163518 *	162352 *	145385 *	118722 *	95637 *	70718 *	52902	38089
7.0	215374 *	248725 *	251586 *	248725 *	215374 *	176316 *	128373 *	97132 *	67504 *	46837
5.0	325042 *	381433 *	375050 *	381433 *	325042 *	244239 *	180833 *	120279 *	83312 *	57423 *
3.0	419799 *	486721 *	490460 *	486721 *	419799 *	330291 *	215632 *	145981 *	97810 *	64874 *
1.0	488895 *	530508 *	532935 *	530508 *	488895 *	390603 *	253495 *	164737 *	106367 *	69007 *
0.0	507213 *	538787 *	542017 *	538787 *	507213 *	400299 *	266515 *	172800 *	109939 *	69659 *
-1.0	500311 *	540208 *	543192 *	540208 *	500311 *	397387 *	258382 *	167620 *	107637 *	69577 *
-3.0	450798 *	511494 *	522081 *	511494 *	450798 *	354156 *	236709 *	155007 *	101542 *	66433 *
-5.0	371607 *	423595 *	430584 *	423595 *	371607 *	274407 *	194923 *	129305 *	87689 *	59340 *
-7.0	257635 *	289116 *	300700 *	289116 *	257635 *	206754 *	140694 *	103783 *	71562 *	49028
-9.0	168034 *	188587 *	196020 *	188587 *	168034 *	136662 *	106853 *	76459 *	56878 *	40745
-11.0	109317 *	118834 *	122871 *	118834 *	109317 *	92610 *	73527 *	57180 *	42915	32765
-13.0	71085 *	75832 *	77634 *	75832 *	71085 *	62138 *	49767	40591	32707	26680
-15.0	45778	47731	46742	47731	45778	41571	35719	29296	25744	22064
-17.0	31461	32944	32692	32944	31461	28885	26447	23730	20907	19255
-19.5	22365	22928	22871	22928	22365	21272	20266	19043	17702	16549
-22.5	17233	17447	17505	17447	17233	16955	16437	15721	14895	14245
-25.5	14347	14483	14544	14483	14347	14176	13877	13483	13073	12738
-29.0	12430	12534	12571	12534	12430	12299	12118	11952	11774	11560
-33.0	10918	11023	11062	11023	10918	10814	10670	10495	10272	9995
-37.5	8999	9087	9105	9087	8999	8919	8794	8624	8415	8169
-42.5	6593	6620	6634	6620	6593	6476	6368	6225	6051	5848
-47.5	4347	4316	4300	4316	4347	4280	4205	4106	3984	3836
-55.0	2126	2127	2127	2127	2126	2107	2093	2071	2042	2001
-65.0	1135	1140	1142	1140	1135	1126	1121	1114	1105	1093
-75.0	627	628	628	628	627	626	619	614	607	600
-85.0	169	170	171	170	169	167	167	168	168	165
-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	177	183	188	190	196	201	203	205	201	193
55.0	812	790	762	720	677	634	583	529	478	420
47.5	1627	1540	1448	1350	1218	1107	964	832	708	605
42.5	2979	2826	2643	2377	2111	1783	1486	1199	961	781
37.5	4853	4621	4302	3879	3457	2936	2338	1766	1313	1016
33.0	6952	6621	6146	5560	4957	4225	3374	2502	1748	1268
29.0	8696	8365	7902	7252	6514	5595	4505	3317	2240	1542
25.5	10004	9628	9220	8612	7865	6798	5525	4101	2779	1790

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CANDELA TABULATION - (Cont.)

22.5	11420	10842	10232	9582	8862	7832	6369	4768	3236	2066
19.5	13503	12475	11456	10533	9719	8713	7176	5428	3707	2324
17.0	15754	14300	12669	11357	10399	9302	7822	5955	4070	2544
15.0	18169	15975	13860	12086	10922	9750	8318	6345	4355	2728
13.0	20784	18100	15300	12873	11403	10161	8769	6732	4624	2897
11.0	24158	20057	16688	13653	11863	10556	9116	7091	4870	3049
9.0	27662	22806	18265	14646	12413	10927	9395	7408	5091	3183
7.0	34083	25452	19645	15537	12881	11226	9654	7680	5284	3299
5.0	39183	27677	20711	16236	13236	11455	9888	7904	5449	3400
3.0	42664	29769	21707	16711	13513	11630	10083	8074	5598	3521
1.0	44647	31155	22297	17054	13727	11735	10181	8195	5637	3576
0.0	44634	31352	22414	17133	13804	11768	10213	8229	5657	3604
-1.0	44871	31565	22598	17316	13907	11827	10247	8264	5684	3622
-3.0	43219	30298	22173	17221	13970	11898	10283	8281	5739	3659
-5.0	40000	28043	21100	16716	13803	11883	10272	8259	5690	3628
-7.0	35068	25975	20136	16125	13565	11816	10212	8190	5650	3595
-9.0	29124	23550	18986	15491	13265	11709	10100	8071	5574	3539
-11.0	25819	20895	17671	14720	12911	11565	9935	7903	5463	3459
-13.0	22039	19227	16512	14132	12648	11388	9720	7680	5316	3356
-15.0	19640	17414	15338	13487	12304	11182	9476	7414	5132	3229
-17.0	17438	15967	14285	12877	11933	10791	9197	7131	4918	3079
-19.5	15374	14295	13137	12263	11467	10235	8753	6722	4615	2888
-22.5	13545	12881	12248	11513	10703	9559	8054	6159	4174	2653
-25.5	12360	11966	11444	10677	9843	8789	7300	5553	3724	2387
-29.0	11276	10878	10308	9606	8815	7748	6326	4785	3191	2151
-33.0	9716	9416	8968	8237	7399	6363	5191	3897	2651	1879
-37.5	7889	7545	7054	6414	5737	4907	3948	2963	2146	1640
-42.5	5613	5354	5003	4525	4013	3374	2777	2207	1743	1401
-47.5	3662	3459	3217	2935	2620	2335	2019	1733	1432	1192
-55.0	1946	1886	1805	1717	1627	1512	1385	1235	1081	940
-65.0	1081	1067	1047	1020	988	942	887	811	724	630
-75.0	592	581	568	551	533	509	478	437	389	339
-85.0	164	160	156	151	145	140	133	124	113	100
-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	173	126	79	27	0
55.0	341	237	125	38	0
47.5	476	320	163	46	0
42.5	577	377	191	51	0
37.5	705	438	219	55	0
33.0	837	497	243	59	0
29.0	957	551	267	62	0
25.5	1078	599	287	65	0
22.5	1178	634	304	67	0
19.5	1268	670	319	68	0
17.0	1343	699	331	70	0
15.0	1399	720	339	71	0
13.0	1450	740	348	72	0
11.0	1497	759	355	74	0
9.0	1540	775	362	74	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

CANDELA TABULATION - (Cont.)

7.0	1577	790	368	74	0
5.0	1610	803	376	74	0
3.0	1644	816	379	75	0
1.0	1660	825	382	75	0
0.0	1668	829	384	75	0
-1.0	1679	833	386	75	0
-3.0	1702	840	390	75	0
-5.0	1705	842	394	76	0
-7.0	1708	844	393	76	0
-9.0	1697	845	394	76	0
-11.0	1680	844	394	77	0
-13.0	1657	841	393	75	0
-15.0	1628	836	391	74	0
-17.0	1595	830	388	74	0
-19.5	1546	819	384	73	0
-22.5	1492	802	375	72	0
-25.5	1427	785	364	71	0
-29.0	1339	755	350	69	0
-33.0	1244	719	330	66	0
-37.5	1131	671	308	63	0
-42.5	1015	613	280	58	0
-47.5	903	551	249	54	0
-55.0	720	451	205	45	0
-65.0	488	302	142	33	0
-75.0	263	166	84	21	0
-85.0	81	54	29	7	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 30547.64

Total Field Lumens (one side of beam only) = 18364.78

* 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	0.46	0.49	0.50	0.52	0.53	0.69
55	1.57	3.14	3.13	3.11	3.08	3.05	3.00	2.94	2.87	3.48
47.5	3.22	6.45	6.39	6.26	6.12	5.93	5.73	5.51	5.24	6.16
42.5	4.12	8.26	8.19	8.03	7.83	7.57	7.28	6.96	6.57	7.64
37.5	7.02	14.01	13.90	13.71	13.42	13.00	12.48	11.86	11.18	13.01
33	9.46	18.79	18.61	18.38	18.02	17.51	16.86	16.06	15.18	17.65
29	10.91	21.66	21.42	21.11	20.68	20.17	19.56	18.82	17.94	21.00
25.5	11.61	23.01	22.72	22.33	21.79	21.12	20.41	19.66	18.80	22.22
22.5	12.39	24.51	24.05	23.43	22.55	21.46	20.41	19.44	18.40	21.65
19.5	16.40	32.27	31.20	29.90	28.34	26.47	24.65	22.91	21.19	24.41
17	19.18	37.44	35.30	33.05	30.73	27.91	25.26	22.80	20.51	23.01
15	21.80	42.73	40.03	36.48	32.18	27.94	24.47	21.38	18.80	20.54
13	32.88	64.34	59.60	52.01	43.42	35.99	29.88	24.99	21.38	22.87
11	51.78 *	100.14 *	90.05 *	75.54 *	61.05	48.15	37.39	29.64	24.33	25.36
9	81.30 *	154.63 *	134.36 *	109.79 *	86.04 *	64.73	47.98	35.57	27.72	28.14
7	125.83 *	234.96 *	199.27 *	157.24 *	118.20 *	86.47 *	61.18	43.35	32.21	31.16
5	191.41 *	356.34 *	292.00 *	221.07 *	158.85 *	110.46 *	76.00 *	52.47	37.01	33.80
3	264.04 *	491.02 *	400.90 *	294.15 *	199.90 *	134.20 *	90.40 *	60.34	40.79	36.11
1	310.79 *	586.28 *	495.17 *	360.50 *	235.23 *	154.46 *	100.72 *	65.37 *	43.40	37.94
0	163.29 *	314.37 *	271.50 *	198.56 *	129.33 *	83.07 *	52.88 *	33.69 *	22.22	19.38
-1	164.81 *	317.59 *	274.27 *	200.33 *	130.51 *	83.69 *	53.16 *	33.80 *	22.31	19.51
	322.42 *	609.69 *	517.37 *	377.65 *	246.65 *	159.53 *	102.85 *	66.23 *	43.91	38.56

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

LUMENS TABULATION - (Cont.)

-3	287.51 *	535.01 *	440.89 *	321.17 *	215.96 *	142.05 *	93.85 *	61.77	41.45	36.74
-5	219.92 *	408.51 *	337.41 *	247.43 *	171.54 *	117.69 *	79.74 *	54.22	37.80	34.44
-7	148.41 *	275.00 *	233.69 *	179.02 *	129.04 *	92.60 *	65.02 *	45.50	33.30	32.05
-9	95.39 *	178.01 *	153.94 *	124.10 *	94.72 *	70.02 *	51.63	37.96	29.10	29.33
-11	60.18 *	114.18 *	101.84 *	84.23 *	66.68 *	52.01	40.24	31.71	25.76	26.87
-13	37.76 *	73.19 *	67.02 *	57.31	46.87	38.50	31.94	26.72	22.93	24.77
-15	24.38	48.07	44.88	40.18	34.75	29.90	26.21	23.17	20.63	22.78
-17	21.21	41.74	39.50	36.68	33.74	30.52	27.71	25.35	23.09	26.07
-19.5	18.45	36.52	35.47	34.05	32.34	30.31	28.33	26.47	24.64	28.51
-22.5	14.62	29.00	28.58	27.92	26.93	25.73	24.56	23.45	22.29	26.33
-25.5	14.43	28.66	28.32	27.82	27.15	26.40	25.62	24.79	23.82	28.22
-29	14.37	28.56	28.24	27.81	27.29	26.69	25.98	25.15	24.18	28.62
-33	13.80	27.42	27.11	26.72	26.19	25.52	24.70	23.79	22.77	26.83
-37.5	11.97	23.82	23.54	23.14	22.63	21.98	21.22	20.33	19.33	22.56
-42.5	8.33	16.65	16.48	16.15	15.76	15.27	14.69	14.01	13.24	15.40
-47.5	7.35	14.74	14.65	14.41	14.11	13.73	13.25	12.68	12.03	14.06
-55	4.98	9.94	9.87	9.77	9.65	9.50	9.30	9.05	8.75	10.50
-65	2.69	5.37	5.34	5.29	5.23	5.16	5.07	4.97	4.86	5.90
-75	1.22	2.43	2.41	2.39	2.36	2.34	2.29	2.25	2.19	2.65
-85	0.13	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.29
-90	0.13	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.29
Total	2833.51	5359.1	4599.3	3568.87	2617.56	1929.52	1444.66	1107.89	884.89	917.20

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	0.83	0.84	1.00	1.15	1.29	1.40	1.30	1.66	1.53	0.78
65	3.97	3.72	4.05	4.23	4.25	4.12	3.48	4.03	3.34	1.47
55	6.85	6.21	6.46	6.44	6.10	5.57	4.46	4.94	3.92	1.65

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

LUMENS TABULATION - (Cont.)

47.5										
	8.34	7.36	7.37	6.97	6.27	5.39	4.11	4.36	3.33	1.37
42.5	14.08	12.34	12.19	11.15	9.50	7.64	5.48	5.50	3.99	1.59
37.5	19.09	16.77	16.61	15.12	12.57	9.62	6.47	6.15	4.24	1.64
33	22.91	20.27	20.18	18.48	15.33	11.44	7.32	6.58	4.32	1.62
29	24.62	22.09	22.20	20.49	17.09	12.69	7.87	6.71	4.24	1.55
25.5	24.09	21.86	22.29	20.77	17.43	13.02	7.97	6.55	3.98	1.42
22.5	26.75	24.23	24.97	23.57	19.93	14.99	9.15	7.33	4.28	1.50
19.5	24.53	21.92	22.59	21.55	18.45	13.97	8.51	6.68	3.78	1.31
17	21.31	18.68	19.13	18.37	15.91	12.09	7.37	5.73	3.16	1.09
15	23.08	19.74	20.01	19.32	16.88	12.86	7.86	6.05	3.28	1.12
13	24.96	20.78	20.84	20.15	17.74	13.60	8.31	6.35	3.38	1.15
11	26.98	21.94	21.68	20.88	18.47	14.26	8.72	6.62	3.48	1.17
9	29.04	23.15	22.48	21.51	19.10	14.85	9.07	6.86	3.56	1.19
7	30.77	24.16	23.12	22.05	19.66	15.35	9.38	7.06	3.64	1.22
5	32.15	24.92	23.61	22.48	20.12	15.76	9.67	7.27	3.71	1.24
3	33.17	25.46	23.98	22.78	20.44	16.04	9.87	7.43	3.76	1.25
1	16.83	12.88	12.09	11.46	10.30	8.08	4.97	3.75	1.89	0.63
0	16.95	12.97	12.16	11.50	10.34	8.12	5.00	3.78	1.90	0.63
-1	33.83	26.05	24.45	23.11	20.75	16.31	10.07	7.62	3.84	1.27
-3	32.93	25.76	24.43	23.15	20.76	16.31	10.08	7.64	3.87	1.28
-5	31.60	25.13	24.20	23.07	20.67	16.21	9.99	7.60	3.88	1.29
-7	30.17	24.39	23.86	22.89	20.47	16.03	9.88	7.53	3.87	1.29
-9	28.52	23.53	23.43	22.61	20.15	15.75	9.71	7.41	3.85	1.29
-11	26.89	22.71	22.99	22.25	19.72	15.37	9.47	7.25	3.82	1.29
-13	25.37	21.94	22.52	21.81	19.19	14.90	9.17	7.05	3.77	1.28
-15	23.88	21.12	21.90	21.22	18.59	14.34	8.81	6.81	3.72	1.27
-17	28.02	25.32	26.31	25.44	22.25	17.05	10.43	8.13	4.55	1.57
-19.5	31.45	28.77	29.83	28.66	24.92	18.96	11.57	9.19	5.32	1.86

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

LUMENS TABULATION - (Cont.)

-22.5	29.35	26.76	27.64	26.39	22.72	17.15	10.45	8.53	5.14	1.82
-25.5	31.38	28.44	29.18	27.56	23.47	17.61	10.79	9.13	5.73	2.05
-29	31.66	28.43	28.74	26.76	22.61	16.94	10.63	9.45	6.17	2.24
-33	29.44	26.09	26.02	23.98	20.14	15.30	10.07	9.48	6.44	2.37
-37.5	24.52	21.59	21.36	19.59	16.64	13.21	9.33	9.27	6.52	2.43
-42.5	16.72	14.71	14.62	13.71	12.22	10.37	7.76	8.06	5.86	2.20
-47.5	15.47	13.93	14.38	14.20	13.37	11.99	9.38	10.06	7.49	2.84
-55	11.92	11.17	12.01	12.34	12.08	11.23	9.08	9.92	7.46	2.86
-65	6.79	6.45	7.04	7.35	7.31	6.88	5.60	6.14	4.64	1.81
-75	3.04	2.88	3.14	3.29	3.28	3.10	2.53	2.80	2.14	0.87
-85	0.33	0.31	0.34	0.36	0.36	0.35	0.29	0.32	0.26	0.11
-90										
Total	924.59	787.81	787.47	750.26	658.99	516.48	331.74	281.26	171.58	62.23

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	16.67
65			
	0.36	0.01	66.40
55			
	0.37	0.01	109.95
47.5			
	0.30	0.01	127.62
42.5			
	0.34	0.01	207.40
37.5			
	0.34	0.01	275.12
33			
	0.33	0.01	322.06
29			
	0.31	0.01	343.54
25.5			
	0.29	0.01	347.95
22.5			
	0.30	0.01	414.73
19.5			
	0.26	0.01	418.73
17			
	0.21	0.00	409.43

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

LUMENS TABULATION - (Cont.)

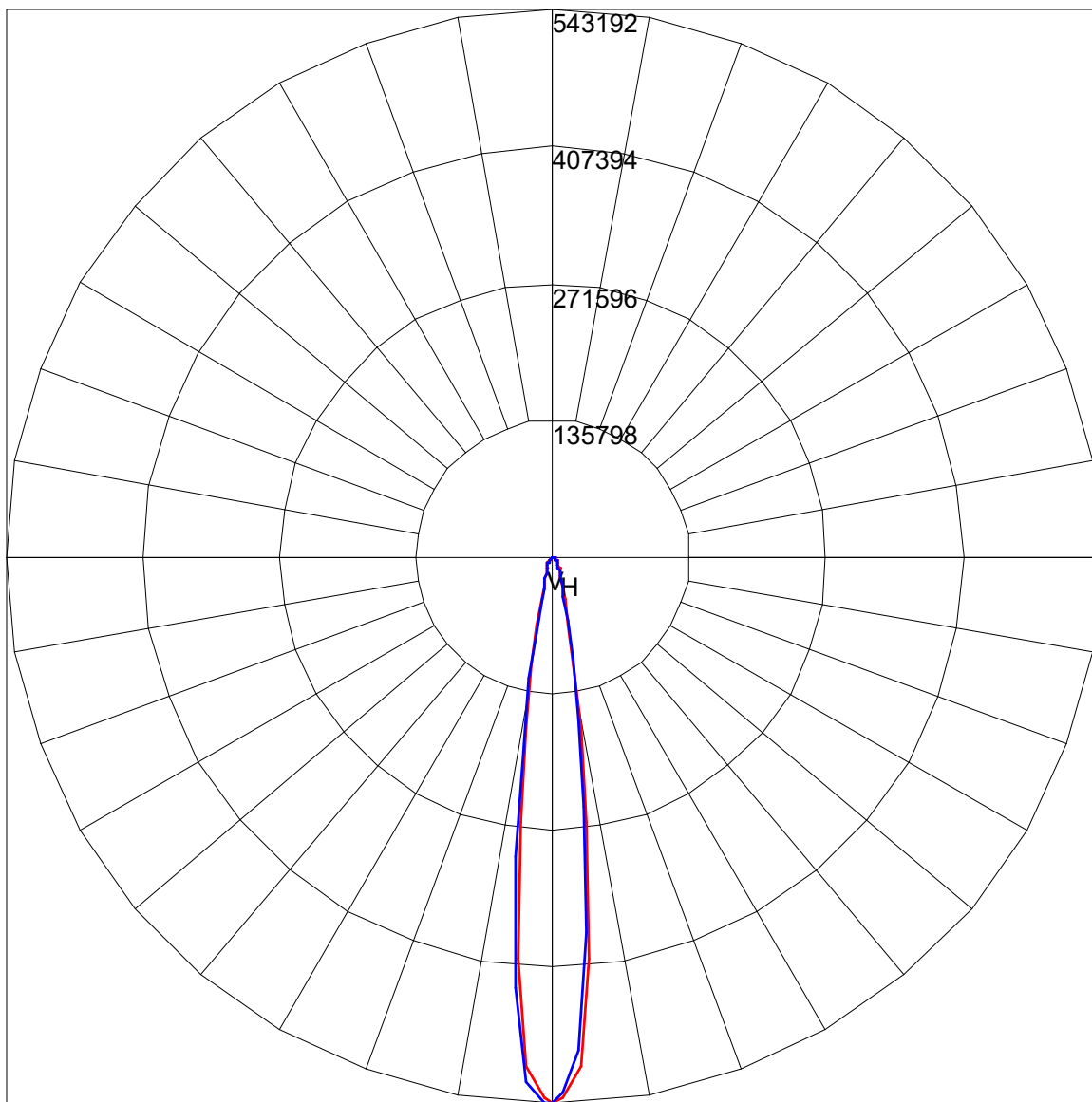
15	0.22	0.00	517.77
13	0.22	0.00	680.93
11	0.23	0.00	914.70
9	0.23	0.00	1240.93
7	0.24	0.00	1686.05
5	0.24	0.00	2173.01
3	0.24	0.00	2554.29
1	0.12	0.00	1371.31
0	0.12	0.00	1383.43
-1	0.24	0.00	2652.39
-3	0.25	0.01	2342.85
-5	0.25	0.01	1872.57
-7	0.25	0.01	1394.26
-9	0.25	0.01	1020.73
-11	0.25	0.01	755.71
-13	0.25	0.00	574.26
-15	0.24	0.00	456.86
-17	0.30	0.01	475.01
-19.5	0.36	0.01	485.97
-22.5	0.35	0.01	425.71
-25.5	0.39	0.01	440.96
-29	0.43	0.01	440.95
-33	0.46	0.01	414.64
-37.5	0.47	0.01	355.45
-42.5	0.42	0.01	252.65
-47.5	0.55	0.01	244.68
-55	0.56	0.01	191.93
-65	0.37	0.01	110.30

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-VNF-40-GS.IES

LUMENS TABULATION - (Cont.)

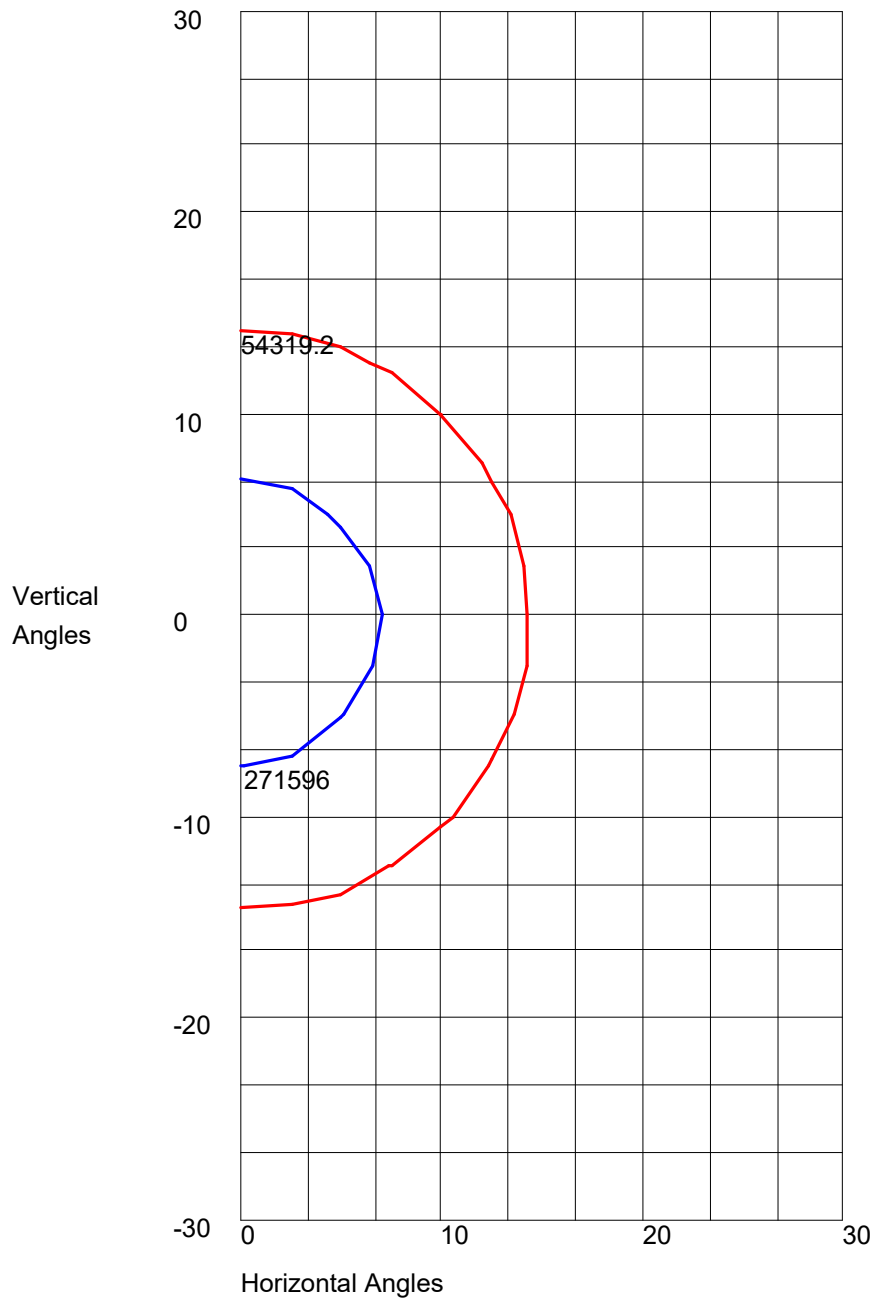
-75	0.19	0.00	49.80
-85	0.02	0.00	5.45
-90			
Total	12.46	0.28	30547.65

AXIAL CANDELA DISPLAY



Maximum Candela = 543192 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 543192 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 271596
10% Maximum Candela = 54319.2