



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13472
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 06/15/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-VNF-50
[LUMINAIRE OTHER] TEST PROCEDURE: IESNA LM-79-19
[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	612695
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	13.5
Vertical Beam Angle (50%)	13.5
Horizontal Field Angle (10%)	26.4
Vertical Field Angle (10%)	26.4
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	20298
Beam Efficiency	N.A.
Field Lumens	37369
Field Efficiency	N.A.
Spill Lumens	27037
Luminaire Lumens	64406
Total Efficiency	N.A.
Total Luminaire Watts	457.7
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	88	85	87
75	516	75	509
65	997	65	993
55	2011	55	1991
47.5	4076	47.5	4076
42.5	6116	42.5	6093
37.5	8473	37.5	8431
33	10457	33	10415
29	11986	29	11897
25.5	13777	25.5	13626
22.5	16631	22.5	16459
19.5	20480	19.5	20513
17	27778	17	27688
15	39067	15	38695
13	63962	13	63825
11	105794	11	106295
9	176814	9	178671
7	286430	7	288890
5	441199	5	440253
3	567397	3	565411
1	607196	1	606297
0	612695	0	612695
-1	607196	-1	606297
-3	567397	-3	565411
-5	441199	-5	440253
-7	286430	-7	288890
-9	176814	-9	178671
-11	105794	-11	106295
-13	63962	-13	63825
-15	39067	-15	38695
-17	27778	-17	27688
-19.5	20480	-19.5	20513
-22.5	16631	-22.5	16459
-25.5	13777	-25.5	13626
-29	11986	-29	11897
-33	10457	-33	10415
-37.5	8473	-37.5	8431
-42.5	6116	-42.5	6093
-47.5	4076	-47.5	4076
-55	2011	-55	1991
-65	997	-65	993
-75	516	-75	509
-85	88	-85	87
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 612695

Beam Edge = 306347.5 Cd (50% of Max.)

Field Edge = 61269.5 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	5	14	23	36	48	56	63	68	71
75.0	0	14	60	129	210	268	309	347	378	403
65.0	0	24	130	278	447	561	632	705	767	817
55.0	0	37	209	447	691	872	999	1139	1268	1380
47.5	0	49	268	566	877	1139	1361	1633	1912	2228
42.5	0	57	313	639	1000	1360	1691	2141	2679	3248
37.5	0	64	354	706	1138	1639	2149	2923	3798	4644
33.0	0	69	388	767	1274	1929	2698	3812	4944	6023
29.0	0	73	414	818	1394	2247	3276	4644	5994	7319
25.5	0	77	436	860	1512	2527	3816	5365	6919	8350
22.5	0	79	452	887	1603	2822	4246	5962	7682	9172
19.5	0	81	466	915	1684	3080	4664	6546	8387	9877
17.0	0	83	477	934	1756	3282	4978	6995	8896	10351
15.0	0	84	485	948	1807	3449	5221	7316	9265	10691
13.0	0	85	492	959	1852	3598	5444	7621	9590	10975
11.0	0	88	498	969	1892	3727	5636	7884	9840	11224
9.0	0	88	503	978	1925	3835	5798	8091	10035	11435
7.0	0	88	507	985	1952	3922	5927	8250	10191	11622
5.0	0	88	514	991	1977	3990	6025	8363	10309	11774
3.0	0	88	515	996	2004	4065	6124	8436	10389	11879
1.0	0	88	516	997	2009	4072	6119	8477	10445	11961
0.0	0	88	516	997	2011	4076	6116	8473	10457	11986
-1.0	0	88	516	997	2009	4072	6119	8477	10445	11961
-3.0	0	88	515	996	2004	4065	6124	8436	10389	11879
-5.0	0	88	514	991	1977	3990	6025	8363	10309	11774
-7.0	0	88	507	985	1952	3922	5927	8250	10191	11622
-9.0	0	88	503	978	1925	3835	5798	8091	10035	11435
-11.0	0	88	498	969	1892	3727	5636	7884	9840	11224
-13.0	0	85	492	959	1852	3598	5444	7621	9590	10975
-15.0	0	84	485	948	1807	3449	5221	7316	9265	10691
-17.0	0	83	477	934	1756	3282	4978	6995	8896	10351
-19.5	0	81	466	915	1684	3080	4664	6546	8387	9877
-22.5	0	79	452	887	1603	2822	4246	5962	7682	9172
-25.5	0	77	436	860	1512	2527	3816	5365	6919	8350
-29.0	0	73	414	818	1394	2247	3276	4644	5994	7319
-33.0	0	69	388	767	1274	1929	2698	3812	4944	6023
-37.5	0	64	354	706	1138	1639	2149	2923	3798	4644
-42.5	0	57	313	639	1000	1360	1691	2141	2679	3248
-47.5	0	49	268	566	877	1139	1361	1633	1912	2228
-55.0	0	37	209	447	691	872	999	1139	1268	1380
-65.0	0	24	130	278	447	561	632	705	767	817
-75.0	0	14	60	129	210	268	309	347	378	403
-85.0	0	5	14	23	36	48	56	63	68	71
-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	74	77	79	81	83	84	87	88	88	88
75.0	423	438	452	461	468	476	484	492	498	507
65.0	860	888	914	933	947	960	970	978	984	987
55.0	1496	1587	1677	1757	1814	1864	1901	1929	1950	1964
47.5	2514	2819	3093	3298	3462	3607	3733	3835	3914	3971
42.5	3803	4250	4671	4980	5215	5429	5615	5775	5906	6005
37.5	5375	5980	6538	6957	7266	7577	7848	8076	8243	8365
33.0	6943	7683	8385	8880	9227	9548	9806	10010	10169	10284
29.0	8358	9169	9862	10322	10659	10954	11207	11418	11595	11734
25.5	9471	10243	10898	11374	11768	12136	12456	12834	13154	13382
22.5	10248	11022	11736	12323	12889	13494	14081	14865	15482	15951
19.5	10919	11744	12612	13575	14539	15692	16775	17792	18608	19252
17.0	11412	12336	13584	15097	16470	17852	19167	21193	23033	24431
15.0	11797	12907	14553	16475	18003	19792	22576	25218	30326	34187
13.0	12156	13508	15697	17823	19766	22956	27755	34335	41956	52277
11.0	12463	14079	16752	19095	22492	27760	35970	48994	63702 *	80197 *
9.0	12834	14844	17746	21165	25182	34598	49129	67275 *	97456 *	123169 *
7.0	13158	15468	18508	22995	30407	42190	63628 *	97158 *	138667 *	199025 *
5.0	13422	15960	19087	24355	34304	52377	80132 *	122677 *	198077 *	290600 *
3.0	13607	16301	19896	26180	37108	59809	98234 *	157593 *	247757 *	382074 *
1.0	13738	16564	20394	27530	38930	63850 *	105621 *	177676 *	288242 *	449972 *
0.0	13777	16631	20480	27778	39067	63962 *	105794 *	176814 *	286430 *	441199 *
-1.0	13738	16564	20394	27530	38930	63850 *	105621 *	177676 *	288242 *	449972 *
-3.0	13607	16301	19896	26180	37108	59809	98234 *	157593 *	247757 *	382074 *
-5.0	13422	15960	19087	24355	34304	52377	80132 *	122677 *	198077 *	290600 *
-7.0	13158	15468	18508	22995	30407	42190	63628 *	97158 *	138667 *	199025 *
-9.0	12834	14844	17746	21165	25182	34598	49129	67275 *	97456 *	123169 *
-11.0	12463	14079	16752	19095	22492	27760	35970	48994	63702 *	80197 *
-13.0	12156	13508	15697	17823	19766	22956	27755	34335	41956	52277
-15.0	11797	12907	14553	16475	18003	19792	22576	25218	30326	34187
-17.0	11412	12336	13584	15097	16470	17852	19167	21193	23033	24431
-19.5	10919	11744	12612	13575	14539	15692	16775	17792	18608	19252
-22.5	10248	11022	11736	12323	12889	13494	14081	14865	15482	15951
-25.5	9471	10243	10898	11374	11768	12136	12456	12834	13154	13382
-29.0	8358	9169	9862	10322	10659	10954	11207	11418	11595	11734
-33.0	6943	7683	8385	8880	9227	9548	9806	10010	10169	10284
-37.5	5375	5980	6538	6957	7266	7577	7848	8076	8243	8365
-42.5	3803	4250	4671	4980	5215	5429	5615	5775	5906	6005
-47.5	2514	2819	3093	3298	3462	3607	3733	3835	3914	3971
-55.0	1496	1587	1677	1757	1814	1864	1901	1929	1950	1964
-65.0	860	888	914	933	947	960	970	978	984	987
-75.0	423	438	452	461	468	476	484	492	498	507
-85.0	74	77	79	81	83	84	87	88	88	88
-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	88	87	87	87	88	88	88	88	87	84
75.0	508	509	509	509	508	507	498	492	484	476
65.0	992	993	993	993	992	987	984	978	970	960

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CANDELA TABULATION - (Cont.)

55.0	1985	1989	1991	1989	1985	1964	1950	1929	1901	1864
47.5	4041	4064	4076	4064	4041	3971	3914	3835	3733	3607
42.5	6106	6097	6093	6097	6106	6005	5906	5775	5615	5429
37.5	8441	8451	8431	8451	8441	8365	8243	8076	7848	7577
33.0	10359	10405	10415	10405	10359	10284	10169	10010	9806	9548
29.0	11823	11882	11897	11882	11823	11734	11595	11418	11207	10954
25.5	13524	13607	13626	13607	13524	13382	13154	12834	12456	12136
22.5	16274	16460	16459	16460	16274	15951	15482	14865	14081	13494
19.5	19934	20384	20513	20384	19934	19252	18608	17792	16775	15692
17.0	26190	27464	27688	27464	26190	24431	23033	21193	19167	17852
15.0	36867	38571	38695	38571	36867	34187	30326	25218	22576	19792
13.0	59591	63036 *	63825 *	63036 *	59591	52277	41956	34335	27755	22956
11.0	97687 *	105624 *	106295 *	105624 *	97687 *	80197 *	63702 *	48994	35970	27760
9.0	156532 *	178459 *	178671 *	178459 *	156532 *	123169 *	97456 *	67275 *	49129	34598
7.0	245103 *	288156 *	288890 *	288156 *	245103 *	199025 *	138667 *	97158 *	63628 *	42190
5.0	379876 *	447217 *	440253 *	447217 *	379876 *	290600 *	198077 *	122677 *	80132 *	52377
3.0	495191 *	558041 *	565411 *	558041 *	495191 *	382074 *	247757 *	157593 *	98234 *	59809
1.0	559312 *	605387 *	606297 *	605387 *	559312 *	449972 *	288242 *	177676 *	105621 *	63850 *
0.0	567397 *	607196 *	612695 *	607196 *	567397 *	441199 *	286430 *	176814 *	105794 *	63962 *
-1.0	559312 *	605387 *	606297 *	605387 *	559312 *	449972 *	288242 *	177676 *	105621 *	63850 *
-3.0	495191 *	558041 *	565411 *	558041 *	495191 *	382074 *	247757 *	157593 *	98234 *	59809
-5.0	379876 *	447217 *	440253 *	447217 *	379876 *	290600 *	198077 *	122677 *	80132 *	52377
-7.0	245103 *	288156 *	288890 *	288156 *	245103 *	199025 *	138667 *	97158 *	63628 *	42190
-9.0	156532 *	178459 *	178671 *	178459 *	156532 *	123169 *	97456 *	67275 *	49129	34598
-11.0	97687 *	105624 *	106295 *	105624 *	97687 *	80197 *	63702 *	48994	35970	27760
-13.0	59591	63036 *	63825 *	63036 *	59591	52277	41956	34335	27755	22956
-15.0	36867	38571	38695	38571	36867	34187	30326	25218	22576	19792
-17.0	26190	27464	27688	27464	26190	24431	23033	21193	19167	17852
-19.5	19934	20384	20513	20384	19934	19252	18608	17792	16775	15692
-22.5	16274	16460	16459	16460	16274	15951	15482	14865	14081	13494
-25.5	13524	13607	13626	13607	13524	13382	13154	12834	12456	12136
-29.0	11823	11882	11897	11882	11823	11734	11595	11418	11207	10954
-33.0	10359	10405	10415	10405	10359	10284	10169	10010	9806	9548
-37.5	8441	8451	8431	8451	8441	8365	8243	8076	7848	7577
-42.5	6106	6097	6093	6097	6106	6005	5906	5775	5615	5429
-47.5	4041	4064	4076	4064	4041	3971	3914	3835	3733	3607
-55.0	1985	1989	1991	1989	1985	1964	1950	1929	1901	1864
-65.0	992	993	993	993	992	987	984	978	970	960
-75.0	508	509	509	509	508	507	498	492	484	476
-85.0	88	87	87	87	88	88	88	88	87	84
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. 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	83	81	79	77	74	71	68	63	56	48
75.0	468	461	452	438	423	403	378	347	309	268
65.0	947	933	914	888	860	817	767	705	632	561
55.0	1814	1757	1677	1587	1496	1380	1268	1139	999	872
47.5	3462	3298	3093	2819	2514	2228	1912	1633	1361	1139
42.5	5215	4980	4671	4250	3803	3248	2679	2141	1691	1360
37.5	7266	6957	6538	5980	5375	4644	3798	2923	2149	1639
33.0	9227	8880	8385	7683	6943	6023	4944	3812	2698	1929
29.0	10659	10322	9862	9169	8358	7319	5994	4644	3276	2247
25.5	11768	11374	10898	10243	9471	8350	6919	5365	3816	2527

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CANDELA TABULATION - (Cont.)

22.5	12889	12323	11736	11022	10248	9172	7682	5962	4246	2822
19.5	14539	13575	12612	11744	10919	9877	8387	6546	4664	3080
17.0	16470	15097	13584	12336	11412	10351	8896	6995	4978	3282
15.0	18003	16475	14553	12907	11797	10691	9265	7316	5221	3449
13.0	19766	17823	15697	13508	12156	10975	9590	7621	5444	3598
11.0	22492	19095	16752	14079	12463	11224	9840	7884	5636	3727
9.0	25182	21165	17746	14844	12834	11435	10035	8091	5798	3835
7.0	30407	22995	18508	15468	13158	11622	10191	8250	5927	3922
5.0	34304	24355	19087	15960	13422	11774	10309	8363	6025	3990
3.0	37108	26180	19896	16301	13607	11879	10389	8436	6124	4065
1.0	38930	27530	20394	16564	13738	11961	10445	8477	6119	4072
0.0	39067	27778	20480	16631	13777	11986	10457	8473	6116	4076
-1.0	38930	27530	20394	16564	13738	11961	10445	8477	6119	4072
-3.0	37108	26180	19896	16301	13607	11879	10389	8436	6124	4065
-5.0	34304	24355	19087	15960	13422	11774	10309	8363	6025	3990
-7.0	30407	22995	18508	15468	13158	11622	10191	8250	5927	3922
-9.0	25182	21165	17746	14844	12834	11435	10035	8091	5798	3835
-11.0	22492	19095	16752	14079	12463	11224	9840	7884	5636	3727
-13.0	19766	17823	15697	13508	12156	10975	9590	7621	5444	3598
-15.0	18003	16475	14553	12907	11797	10691	9265	7316	5221	3449
-17.0	16470	15097	13584	12336	11412	10351	8896	6995	4978	3282
-19.5	14539	13575	12612	11744	10919	9877	8387	6546	4664	3080
-22.5	12889	12323	11736	11022	10248	9172	7682	5962	4246	2822
-25.5	11768	11374	10898	10243	9471	8350	6919	5365	3816	2527
-29.0	10659	10322	9862	9169	8358	7319	5994	4644	3276	2247
-33.0	9227	8880	8385	7683	6943	6023	4944	3812	2698	1929
-37.5	7266	6957	6538	5980	5375	4644	3798	2923	2149	1639
-42.5	5215	4980	4671	4250	3803	3248	2679	2141	1691	1360
-47.5	3462	3298	3093	2819	2514	2228	1912	1633	1361	1139
-55.0	1814	1757	1677	1587	1496	1380	1268	1139	999	872
-65.0	947	933	914	888	860	817	767	705	632	561
-75.0	468	461	452	438	423	403	378	347	309	268
-85.0	83	81	79	77	74	71	68	63	56	48
-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	36	23	14	5	0
75.0	210	129	60	14	0
65.0	447	278	130	24	0
55.0	691	447	209	37	0
47.5	877	566	268	49	0
42.5	1000	639	313	57	0
37.5	1138	706	354	64	0
33.0	1274	767	388	69	0
29.0	1394	818	414	73	0
25.5	1512	860	436	77	0
22.5	1603	887	452	79	0
19.5	1684	915	466	81	0
17.0	1756	934	477	83	0
15.0	1807	948	485	84	0
13.0	1852	959	492	85	0
11.0	1892	969	498	88	0
9.0	1925	978	503	88	0

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

CANDELA TABULATION - (Cont.)

7.0	1952	985	507	88	0
5.0	1977	991	514	88	0
3.0	2004	996	515	88	0
1.0	2009	997	516	88	0
0.0	2011	997	516	88	0
-1.0	2009	997	516	88	0
-3.0	2004	996	515	88	0
-5.0	1977	991	514	88	0
-7.0	1952	985	507	88	0
-9.0	1925	978	503	88	0
-11.0	1892	969	498	88	0
-13.0	1852	959	492	85	0
-15.0	1807	948	485	84	0
-17.0	1756	934	477	83	0
-19.5	1684	915	466	81	0
-22.5	1603	887	452	79	0
-25.5	1512	860	436	77	0
-29.0	1394	818	414	73	0
-33.0	1274	767	388	69	0
-37.5	1138	706	354	64	0
-42.5	1000	639	313	57	0
-47.5	877	566	268	49	0
-55.0	691	447	209	37	0
-65.0	447	278	130	24	0
-75.0	210	129	60	14	0
-85.0	36	23	14	5	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 32203.04

Total Field Lumens (one side of beam only) = 18684.51

* 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	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.14
75	0.91	1.81	1.81	1.79	1.76	1.73	1.68	1.64	1.60	1.94
65	2.29	4.57	4.55	4.51	4.45	4.39	4.31	4.21	4.11	4.99
55	4.54	9.07	9.01	8.91	8.81	8.67	8.48	8.25	7.98	9.55
47.5	6.92	13.79	13.63	13.40	13.15	12.82	12.41	11.91	11.34	13.32
42.5	7.74	15.46	15.29	14.99	14.65	14.22	13.69	13.09	12.41	14.50
37.5	11.07	22.14	21.97	21.60	21.11	20.48	19.72	18.83	17.87	20.92
33	12.92	25.79	25.60	25.26	24.77	24.12	23.32	22.36	21.30	25.03
29	13.58	27.07	26.86	26.53	26.06	25.46	24.74	23.87	22.89	27.08
25.5	13.60	27.08	26.83	26.44	25.87	25.15	24.38	23.54	22.61	26.87
22.5	13.74	27.34	26.95	26.34	25.49	24.40	23.31	22.29	21.24	25.13
19.5	16.86	33.36	32.55	31.49	30.20	28.58	26.83	25.10	23.42	27.25
17	18.29	35.76	34.11	32.31	30.40	28.10	25.88	23.85	21.84	24.80
15	20.17	39.30	36.97	33.92	30.09	26.44	23.65	21.31	19.34	21.59
13	31.09	60.29	55.58	48.09	39.77	32.96	27.73	23.80	21.10	23.34
11	51.60 *	99.22 *	88.04 *	72.14	57.01	44.11	34.10	27.48	23.18	25.08
9	86.67 *	163.87 *	139.04 *	110.43 *	83.68 *	60.41	43.93	32.52	25.75	27.03
7	142.28 *	264.31 *	219.94 *	169.13 *	120.82 *	83.15 *	56.47	39.12	29.21	29.08
5	223.05 *	414.11 *	338.68 *	250.33 *	167.89 *	109.07 *	71.01	47.08	32.81	30.72
3	306.27 *	572.40 *	470.30 *	338.83 *	219.02 *	137.58 *	86.57 *	54.26	35.71	32.37
1	355.64 *	675.17 *	573.25 *	414.43 *	262.81 *	161.72 *	97.58 *	59.02	37.99	33.99
0	185.17 *	356.06 *	306.58 *	222.03 *	140.14 *	84.88 *	50.54 *	30.41	19.52	17.39
-1	185.17 *	356.06 *	306.58 *	222.03 *	140.14 *	84.88 *	50.54 *	30.41	19.52	17.39
	355.64 *	675.17 *	573.25 *	414.43 *	262.81 *	161.72 *	97.58 *	59.02	37.99	33.99

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

LUMENS TABULATION - (Cont.)

-3	306.27 *	572.40 *	470.30 *	338.83 *	219.02 *	137.58 *	86.57 *	54.26	35.71	32.37
-5	223.05 *	414.11 *	338.68 *	250.33 *	167.89 *	109.07 *	71.01	47.08	32.81	30.72
-7	142.28 *	264.31 *	219.94 *	169.13 *	120.82 *	83.15 *	56.47	39.12	29.21	29.08
-9	86.67 *	163.87 *	139.04 *	110.43 *	83.68 *	60.41	43.93	32.52	25.75	27.03
-11	51.60 *	99.22 *	88.04 *	72.14	57.01	44.11	34.10	27.48	23.18	25.08
-13	31.09	60.29	55.58	48.09	39.77	32.96	27.73	23.80	21.10	23.34
-15	20.17	39.30	36.97	33.92	30.09	26.44	23.65	21.31	19.34	21.59
-17	18.29	35.76	34.11	32.31	30.40	28.10	25.88	23.85	21.84	24.80
-19.5	16.86	33.36	32.55	31.49	30.20	28.58	26.83	25.10	23.42	27.25
-22.5	13.74	27.34	26.95	26.34	25.49	24.40	23.31	22.29	21.24	25.13
-25.5	13.60	27.08	26.83	26.44	25.87	25.15	24.38	23.54	22.61	26.87
-29	13.58	27.07	26.86	26.53	26.06	25.46	24.74	23.87	22.89	27.08
-33	12.92	25.79	25.60	25.26	24.77	24.12	23.32	22.36	21.30	25.03
-37.5	11.07	22.14	21.97	21.60	21.11	20.48	19.72	18.83	17.87	20.92
-42.5	7.74	15.46	15.29	14.99	14.65	14.22	13.69	13.09	12.41	14.50
-47.5	6.92	13.79	13.63	13.40	13.15	12.82	12.41	11.91	11.34	13.32
-55	4.54	9.07	9.01	8.91	8.81	8.67	8.48	8.25	7.98	9.55
-65	2.29	4.57	4.55	4.51	4.45	4.39	4.31	4.21	4.11	4.99
-75	0.91	1.81	1.81	1.79	1.76	1.73	1.68	1.64	1.60	1.94
-85	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.14
-90										
Total	3048.89	5776.23	4935.35	3786.05	2696.15	1917.14	1400.92	1068.17	866.68	924.22

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.17	0.16	0.17	0.18	0.18	0.17	0.14	0.15	0.11	0.05
85	2.23	2.11	2.30	2.40	2.39	2.26	1.83	2.01	1.51	0.59
75	5.74	5.44	5.93	6.17	6.15	5.81	4.76	5.31	4.05	1.55
65	10.80	10.08	10.79	11.05	10.85	10.13	8.25	9.18	7.08	2.77
55	14.68	13.17	13.54	13.29	12.49	11.22	8.82	9.59	7.36	2.91

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

LUMENS TABULATION - (Cont.)

47.5										
	15.82	13.97	13.97	13.14	11.70	9.95	7.47	7.82	5.86	2.32
42.5	22.86	20.25	20.22	18.76	16.15	12.98	9.20	9.18	6.62	2.62
37.5	27.43	24.40	24.51	22.80	19.49	15.20	10.19	9.61	6.65	2.59
33	29.94	26.84	27.14	25.35	21.70	16.83	10.93	9.78	6.47	2.48
29	29.99	27.20	27.78	26.12	22.45	17.45	11.18	9.60	6.10	2.30
25.5	28.09	25.66	26.47	25.16	21.76	16.96	10.83	9.07	5.55	2.06
22.5	30.14	27.50	28.58	27.50	23.99	18.74	11.96	9.85	5.81	2.12
19.5	26.81	24.21	25.21	24.48	21.56	16.90	10.77	8.75	5.03	1.82
17	22.77	20.22	20.97	20.47	18.17	14.29	9.11	7.35	4.14	1.48
15	24.17	21.02	21.62	21.16	18.91	14.93	9.53	7.65	4.23	1.50
13	25.61	21.79	22.18	21.73	19.55	15.50	9.91	7.91	4.31	1.52
11	27.05	22.63	22.72	22.21	20.06	15.98	10.23	8.13	4.38	1.53
9	28.39	23.50	23.24	22.60	20.46	16.37	10.49	8.31	4.44	1.55
7	29.44	24.21	23.68	22.92	20.77	16.66	10.69	8.46	4.49	1.56
5	30.39	24.75	24.02	23.16	20.98	16.88	10.88	8.60	4.54	1.57
3	31.20	25.13	24.25	23.32	21.12	17.00	10.97	8.68	4.57	1.57
1	15.80	12.67	12.19	11.71	10.59	8.51	5.49	4.35	2.29	0.79
0	15.80	12.67	12.19	11.71	10.59	8.51	5.49	4.35	2.29	0.79
-1	31.20	25.13	24.25	23.32	21.12	17.00	10.97	8.68	4.57	1.57
-3	30.39	24.75	24.02	23.16	20.98	16.88	10.88	8.60	4.54	1.57
-5	29.44	24.21	23.68	22.92	20.77	16.66	10.69	8.46	4.49	1.56
-7	28.39	23.50	23.24	22.60	20.46	16.37	10.49	8.31	4.44	1.55
-9	27.05	22.63	22.72	22.21	20.06	15.98	10.23	8.13	4.38	1.53
-11	25.61	21.79	22.18	21.73	19.55	15.50	9.91	7.91	4.31	1.52
-13	24.17	21.02	21.62	21.16	18.91	14.93	9.53	7.65	4.23	1.50
-15	22.77	20.22	20.97	20.47	18.17	14.29	9.11	7.35	4.14	1.48
-17	26.81	24.21	25.21	24.48	21.56	16.90	10.77	8.75	5.03	1.82
-19.5	30.14	27.50	28.58	27.50	23.99	18.74	11.96	9.85	5.81	2.12

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

LUMENS TABULATION - (Cont.)

-22.5	28.09	25.66	26.47	25.16	21.76	16.96	10.83	9.07	5.55	2.06
-25.5	29.99	27.20	27.78	26.12	22.45	17.45	11.18	9.60	6.10	2.30
-29	29.94	26.84	27.14	25.35	21.70	16.83	10.93	9.78	6.47	2.48
-33	27.43	24.40	24.51	22.80	19.49	15.20	10.19	9.61	6.65	2.59
-37.5	22.86	20.25	20.22	18.76	16.15	12.98	9.20	9.18	6.62	2.62
-42.5	15.82	13.97	13.97	13.14	11.70	9.95	7.47	7.82	5.86	2.32
-47.5	14.68	13.17	13.54	13.29	12.49	11.22	8.82	9.59	7.36	2.91
-55	10.80	10.08	10.79	11.05	10.85	10.13	8.25	9.18	7.08	2.77
-65	5.74	5.44	5.93	6.17	6.15	5.81	4.76	5.31	4.05	1.55
-75	2.23	2.11	2.30	2.40	2.39	2.26	1.83	2.01	1.51	0.59
-85	0.17	0.16	0.17	0.18	0.18	0.17	0.14	0.15	0.11	0.05
-90	0.17	0.16	0.17	0.18	0.18	0.17	0.14	0.15	0.11	0.05
Total	959.01	833.85	842.97	811.35	722.95	581.50	387.27	338.69	211.20	78.49

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.01	0.00	2.74
85			
	0.12	0.00	36.44
75			
	0.30	0.01	93.60
65			
	0.53	0.01	174.80
55			
	0.56	0.01	230.34
47.5			
	0.45	0.01	238.52
42.5			
	0.52	0.01	335.09
37.5			
	0.52	0.01	393.86
33			
	0.50	0.01	422.13
29			
	0.46	0.01	422.99
25.5			
	0.41	0.01	408.26
22.5			
	0.43	0.01	462.27
19.5			
	0.37	0.01	441.24
17			
	0.30	0.01	412.08

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

LUMENS TABULATION - (Cont.)

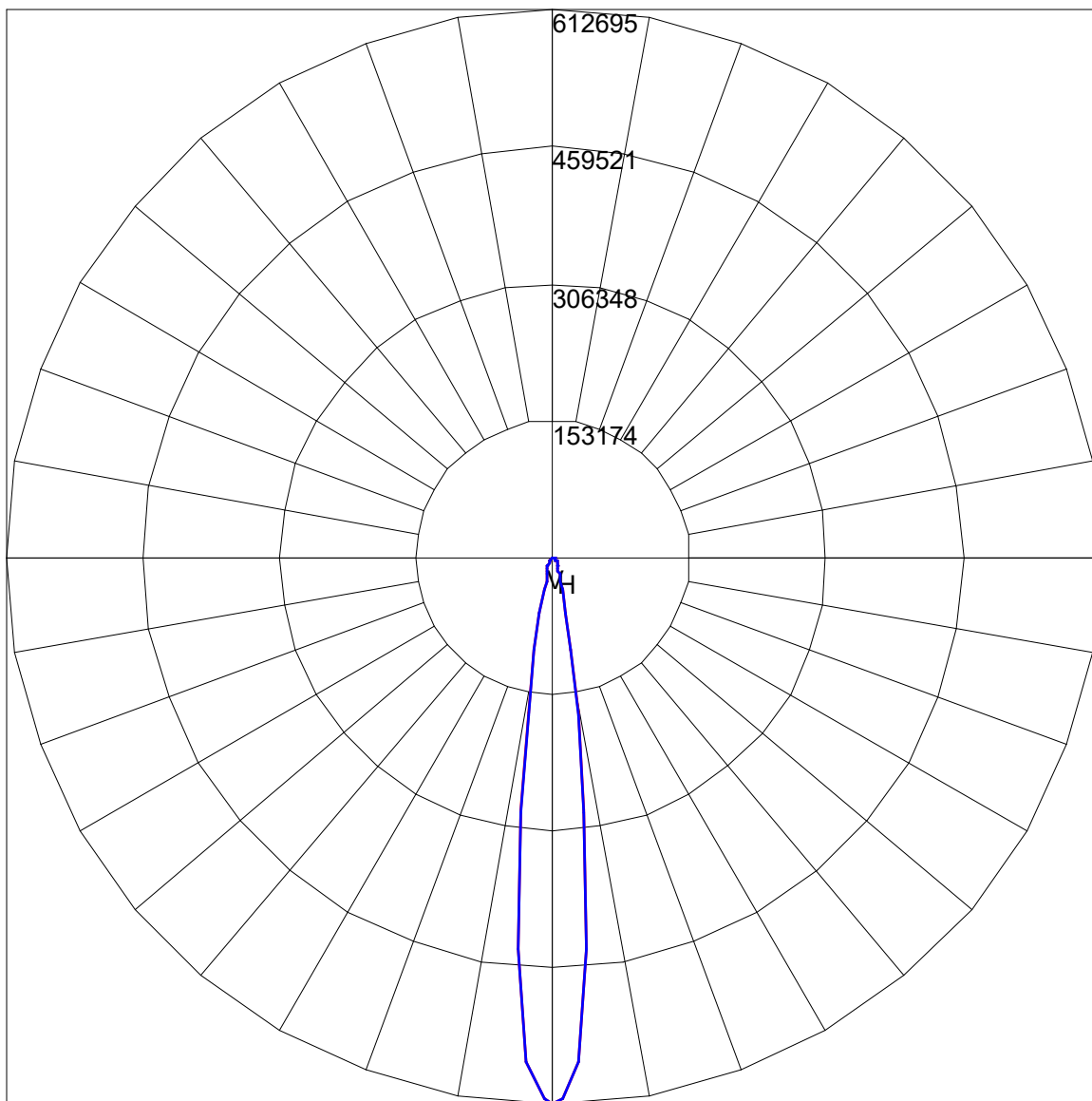
15	0.30	0.01	508.79
13	0.31	0.01	672.29
11	0.31	0.01	928.57
9	0.31	0.01	1313.19
7	0.32	0.01	1847.95
5	0.32	0.01	2419.38
3	0.32	0.01	2839.76
1	0.16	0.00	1497.23
0	0.16	0.00	1497.23
-1	0.32	0.01	2839.76
-3	0.32	0.01	2419.38
-5	0.32	0.01	1847.95
-7	0.31	0.01	1313.19
-9	0.31	0.01	928.57
-11	0.31	0.01	672.29
-13	0.30	0.01	508.79
-15	0.30	0.01	412.08
-17	0.37	0.01	441.24
-19.5	0.43	0.01	462.27
-22.5	0.41	0.01	408.26
-25.5	0.46	0.01	422.99
-29	0.50	0.01	422.13
-33	0.52	0.01	393.86
-37.5	0.52	0.01	335.09
-42.5	0.45	0.01	238.52
-47.5	0.56	0.01	230.34
-55	0.53	0.01	174.80
-65	0.30	0.01	93.60

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

LUMENS TABULATION - (Cont.)

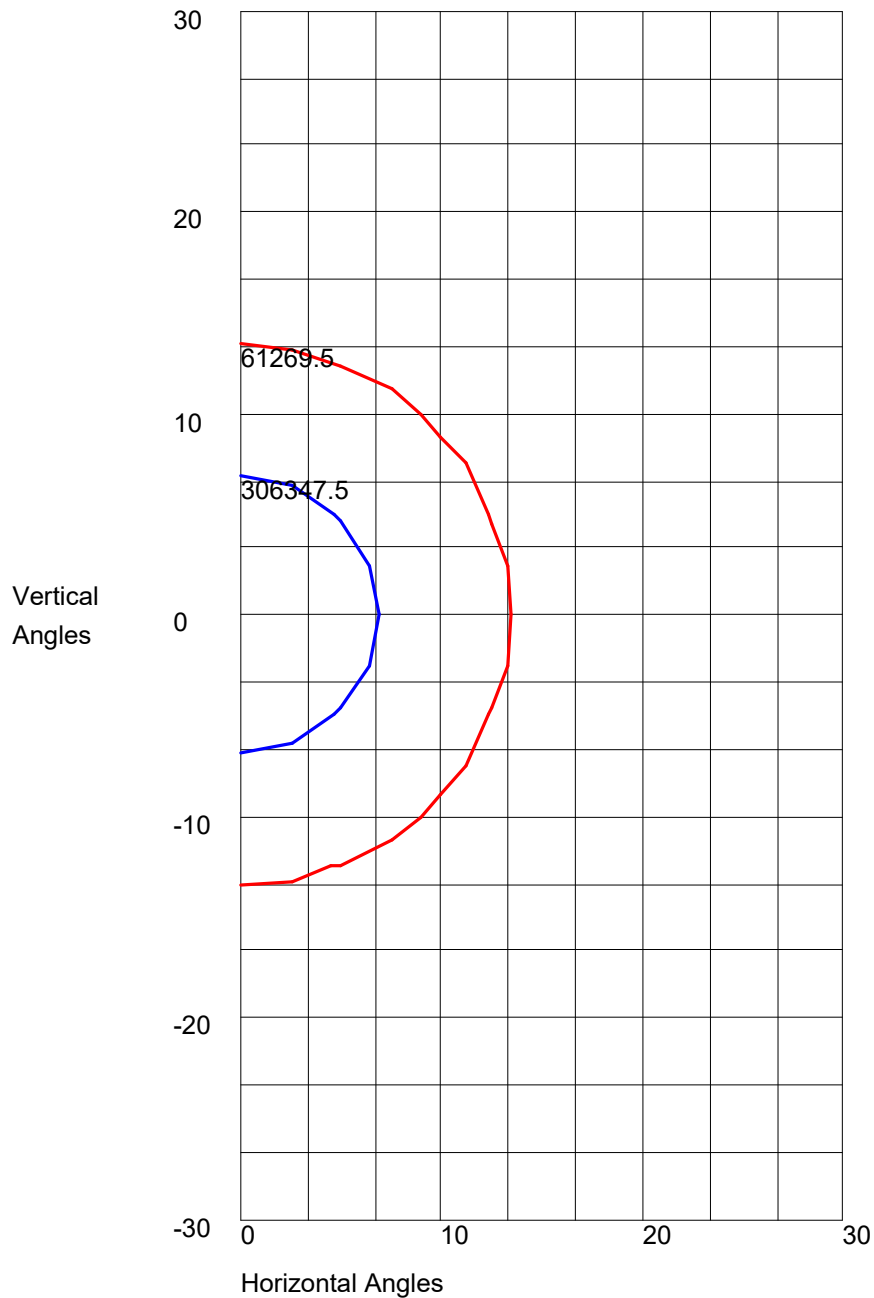
-75	0.12	0.00	36.44
-85	0.01	0.00	2.74
-90			
Total	15.66	0.30	32203.05

AXIAL CANDELA DISPLAY



Maximum Candela = 612695 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 612695 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 306347.5
10% Maximum Candela = 61269.5