



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-VNF-40.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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-VNF-40
[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] 4000

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

CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	607286
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	20119
Beam Efficiency	N.A.
Field Lumens	37039
Field Efficiency	N.A.
Spill Lumens	26799
Luminaire Lumens	63838
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	87	85	86
75	511	75	505
65	988	65	984
55	1993	55	1973
47.5	4040	47.5	4040
42.5	6062	42.5	6039
37.5	8398	37.5	8357
33	10365	33	10322
29	11881	29	11792
25.5	13656	25.5	13505
22.5	16484	22.5	16314
19.5	20299	19.5	20332
17	27533	17	27443
15	38722	15	38353
13	63397	13	63262
11	104860	11	105356
9	175254	9	177094
7	283902	7	286340
5	437304	5	436367
3	562389	3	560420
1	601836	1	600945
0	607286	0	607286
-1	601836	-1	600945
-3	562389	-3	560420
-5	437304	-5	436367
-7	283902	-7	286340
-9	175254	-9	177094
-11	104860	-11	105356
-13	63397	-13	63262
-15	38722	-15	38353
-17	27533	-17	27443
-19.5	20299	-19.5	20332
-22.5	16484	-22.5	16314
-25.5	13656	-25.5	13505
-29	11881	-29	11792
-33	10365	-33	10322
-37.5	8398	-37.5	8357
-42.5	6062	-42.5	6039
-47.5	4040	-47.5	4040
-55	1993	-55	1973
-65	988	-65	984
-75	511	-75	505
-85	87	-85	86
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 607286

Beam Edge = 303643 Cd (50% of Max.)

Field Edge = 60728.6 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	5	14	23	36	48	56	62	67	71
75.0	0	14	60	128	208	266	306	344	375	400
65.0	0	24	129	276	443	557	627	699	760	810
55.0	0	37	207	443	686	864	990	1129	1257	1368
47.5	0	49	266	561	869	1129	1349	1619	1895	2208
42.5	0	56	310	634	991	1348	1676	2122	2655	3220
37.5	0	63	351	700	1128	1624	2130	2897	3765	4603
33.0	0	68	385	760	1263	1912	2675	3779	4900	5970
29.0	0	73	411	810	1382	2227	3247	4603	5941	7254
25.5	0	76	432	852	1499	2505	3783	5317	6858	8277
22.5	0	78	448	879	1589	2797	4208	5909	7615	9092
19.5	0	81	463	906	1669	3053	4623	6488	8313	9790
17.0	0	82	473	925	1740	3253	4934	6933	8817	10259
15.0	0	83	481	939	1791	3419	5176	7251	9184	10596
13.0	0	84	487	951	1836	3566	5396	7554	9506	10878
11.0	0	87	493	960	1875	3694	5587	7814	9752	11124
9.0	0	87	499	969	1908	3801	5747	8019	9946	11333
7.0	0	87	503	976	1934	3888	5875	8177	10101	11519
5.0	0	87	509	982	1960	3955	5972	8290	10218	11670
3.0	0	87	510	987	1986	4029	6070	8361	10297	11774
1.0	0	87	511	988	1991	4036	6065	8402	10352	11856
0.0	0	87	511	988	1993	4040	6062	8398	10365	11881
-1.0	0	87	511	988	1991	4036	6065	8402	10352	11856
-3.0	0	87	510	987	1986	4029	6070	8361	10297	11774
-5.0	0	87	509	982	1960	3955	5972	8290	10218	11670
-7.0	0	87	503	976	1934	3888	5875	8177	10101	11519
-9.0	0	87	499	969	1908	3801	5747	8019	9946	11333
-11.0	0	87	493	960	1875	3694	5587	7814	9752	11124
-13.0	0	84	487	951	1836	3566	5396	7554	9506	10878
-15.0	0	83	481	939	1791	3419	5176	7251	9184	10596
-17.0	0	82	473	925	1740	3253	4934	6933	8817	10259
-19.5	0	81	463	906	1669	3053	4623	6488	8313	9790
-22.5	0	78	448	879	1589	2797	4208	5909	7615	9092
-25.5	0	76	432	852	1499	2505	3783	5317	6858	8277
-29.0	0	73	411	810	1382	2227	3247	4603	5941	7254
-33.0	0	68	385	760	1263	1912	2675	3779	4900	5970
-37.5	0	63	351	700	1128	1624	2130	2897	3765	4603
-42.5	0	56	310	634	991	1348	1676	2122	2655	3220
-47.5	0	49	266	561	869	1129	1349	1619	1895	2208
-55.0	0	37	207	443	686	864	990	1129	1257	1368
-65.0	0	24	129	276	443	557	627	699	760	810
-75.0	0	14	60	128	208	266	306	344	375	400
-85.0	0	5	14	23	36	48	56	62	67	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	73	76	78	80	82	83	86	87	87	87
75.0	420	435	448	458	464	472	481	488	494	503
65.0	852	879	905	925	939	951	961	969	975	978
55.0	1483	1573	1662	1741	1797	1847	1884	1912	1933	1946
47.5	2492	2794	3066	3269	3432	3576	3700	3801	3880	3936
42.5	3769	4212	4629	4936	5169	5382	5566	5724	5853	5952
37.5	5327	5927	6480	6896	7202	7510	7779	8005	8171	8292
33.0	6882	7616	8311	8802	9146	9463	9720	9922	10079	10193
29.0	8284	9088	9775	10231	10565	10857	11108	11317	11492	11631
25.5	9387	10152	10802	11274	11664	12029	12346	12721	13038	13264
22.5	10158	10924	11632	12215	12775	13375	13956	14734	15345	15810
19.5	10823	11640	12501	13455	14411	15553	16626	17635	18444	19082
17.0	11311	12227	13464	14964	16325	17694	18997	21006	22829	24216
15.0	11692	12794	14424	16329	17845	19617	22377	24995	30058	33885
13.0	12048	13389	15558	17666	19592	22753	27510	34032	41586	51815
11.0	12353	13954	16604	18926	22293	27515	35652	48561	63139 *	79489 *
9.0	12721	14713	17589	20978	24960	34292	48695	66681 *	96595 *	122081 *
7.0	13042	15332	18345	22792	30139	41818	63066 *	96300 *	137443 *	197268 *
5.0	13304	15820	18919	24140	34002	51915	79425 *	121595 *	196329 *	288034 *
3.0	13487	16157	19720	25949	36780	59281	97367 *	156202 *	245570 *	378701 *
1.0	13616	16418	20214	27288	38586	63286 *	104688 *	176107 *	285697 *	446000 *
0.0	13656	16484	20299	27533	38722	63397 *	104860 *	175254 *	283902 *	437304 *
-1.0	13616	16418	20214	27288	38586	63286 *	104688 *	176107 *	285697 *	446000 *
-3.0	13487	16157	19720	25949	36780	59281	97367 *	156202 *	245570 *	378701 *
-5.0	13304	15820	18919	24140	34002	51915	79425 *	121595 *	196329 *	288034 *
-7.0	13042	15332	18345	22792	30139	41818	63066 *	96300 *	137443 *	197268 *
-9.0	12721	14713	17589	20978	24960	34292	48695	66681 *	96595 *	122081 *
-11.0	12353	13954	16604	18926	22293	27515	35652	48561	63139 *	79489 *
-13.0	12048	13389	15558	17666	19592	22753	27510	34032	41586	51815
-15.0	11692	12794	14424	16329	17845	19617	22377	24995	30058	33885
-17.0	11311	12227	13464	14964	16325	17694	18997	21006	22829	24216
-19.5	10823	11640	12501	13455	14411	15553	16626	17635	18444	19082
-22.5	10158	10924	11632	12215	12775	13375	13956	14734	15345	15810
-25.5	9387	10152	10802	11274	11664	12029	12346	12721	13038	13264
-29.0	8284	9088	9775	10231	10565	10857	11108	11317	11492	11631
-33.0	6882	7616	8311	8802	9146	9463	9720	9922	10079	10193
-37.5	5327	5927	6480	6896	7202	7510	7779	8005	8171	8292
-42.5	3769	4212	4629	4936	5169	5382	5566	5724	5853	5952
-47.5	2492	2794	3066	3269	3432	3576	3700	3801	3880	3936
-55.0	1483	1573	1662	1741	1797	1847	1884	1912	1933	1946
-65.0	852	879	905	925	939	951	961	969	975	978
-75.0	420	435	448	458	464	472	481	488	494	503
-85.0	73	76	78	80	82	83	86	87	87	87
-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	87	86	86	86	87	87	87	87	86	83
75.0	504	505	505	505	504	503	494	488	481	472
65.0	983	984	984	984	983	978	975	969	961	951

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CANDELA TABULATION - (Cont.)

55.0	1967	1971	1973	1971	1967	1946	1933	1912	1884	1847
47.5	4005	4028	4040	4028	4005	3936	3880	3801	3700	3576
42.5	6052	6043	6039	6043	6052	5952	5853	5724	5566	5382
37.5	8367	8377	8357	8377	8367	8292	8171	8005	7779	7510
33.0	10268	10313	10322	10313	10268	10193	10079	9922	9720	9463
29.0	11719	11777	11792	11777	11719	11631	11492	11317	11108	10857
25.5	13404	13486	13505	13486	13404	13264	13038	12721	12346	12029
22.5	16131	16315	16314	16315	16131	15810	15345	14734	13956	13375
19.5	19759	20205	20332	20205	19759	19082	18444	17635	16626	15553
17.0	25959	27222	27443	27222	25959	24216	22829	21006	18997	17694
15.0	36542	38230	38353	38230	36542	33885	30058	24995	22377	19617
13.0	59065	62480 *	63262 *	62480 *	59065	51815	41586	34032	27510	22753
11.0	96825 *	104691 *	105356 *	104691 *	96825 *	79489 *	63139 *	48561	35652	27515
9.0	155150 *	176884 *	177094 *	176884 *	155150 *	122081 *	96595 *	66681 *	48695	34292
7.0	242939 *	285613 *	286340 *	285613 *	242939 *	197268 *	137443 *	96300 *	63066 *	41818
5.0	376523 *	443270 *	436367 *	443270 *	376523 *	288034 *	196328 *	121595 *	79425 *	51915
3.0	490820 *	553115 *	560420 *	553115 *	490820 *	378701 *	245570 *	156202 *	97367 *	59281
1.0	554374 *	600043 *	600945 *	600043 *	554374 *	446000 *	285697 *	176107 *	104688 *	63286 *
0.0	562389 *	601836 *	607286 *	601836 *	562389 *	437304 *	283902 *	175254 *	104860 *	63397 *
-1.0	554374 *	600043 *	600945 *	600043 *	554374 *	446000 *	285697 *	176107 *	104688 *	63286 *
-3.0	490820 *	553115 *	560420 *	553115 *	490820 *	378701 *	245570 *	156202 *	97367 *	59281
-5.0	376523 *	443270 *	436367 *	443270 *	376523 *	288034 *	196329 *	121595 *	79425 *	51915
-7.0	242939 *	285613 *	286340 *	285613 *	242939 *	197268 *	137443 *	96300 *	63066 *	41818
-9.0	155150 *	176884 *	177094 *	176884 *	155150 *	122081 *	96595 *	66681 *	48695	34292
-11.0	96825 *	104691 *	105356 *	104691 *	96825 *	79489 *	63139 *	48561	35652	27515
-13.0	59065	62480 *	63262 *	62480 *	59065	51815	41586	34032	27510	22753
-15.0	36542	38230	38353	38230	36542	33885	30058	24995	22377	19617
-17.0	25959	27222	27443	27222	25959	24216	22829	21006	18997	17694
-19.5	19759	20205	20332	20205	19759	19082	18444	17635	16626	15553
-22.5	16131	16315	16314	16315	16131	15810	15345	14734	13956	13375
-25.5	13404	13486	13505	13486	13404	13264	13038	12721	12346	12029
-29.0	11719	11777	11792	11777	11719	11631	11492	11317	11108	10857
-33.0	10268	10313	10322	10313	10268	10193	10079	9922	9720	9463
-37.5	8367	8377	8357	8377	8367	8292	8171	8005	7779	7510
-42.5	6052	6043	6039	6043	6052	5952	5853	5724	5566	5382
-47.5	4005	4028	4040	4028	4005	3936	3880	3801	3700	3576
-55.0	1967	1971	1973	1971	1967	1946	1933	1912	1884	1847
-65.0	983	984	984	984	983	978	975	969	961	951
-75.0	504	505	505	505	504	503	494	488	481	472
-85.0	87	86	86	86	87	87	87	87	86	83
-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	82	80	78	76	73	71	67	62	56	48
75.0	464	458	448	435	420	400	375	344	306	266
65.0	939	925	905	879	852	810	760	699	627	557
55.0	1797	1741	1662	1573	1483	1368	1257	1129	990	864
47.5	3432	3269	3066	2794	2492	2208	1895	1619	1349	1129
42.5	5169	4936	4629	4212	3769	3220	2655	2122	1676	1348
37.5	7202	6896	6480	5927	5327	4603	3765	2897	2130	1624
33.0	9146	8802	8311	7616	6882	5970	4900	3779	2675	1912
29.0	10565	10231	9775	9088	8284	7254	5941	4603	3247	2227
25.5	11664	11274	10802	10152	9387	8277	6858	5317	3783	2505

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CANDELA TABULATION - (Cont.)

22.5	12775	12215	11632	10924	10158	9092	7615	5909	4208	2797
19.5	14411	13455	12501	11640	10823	9790	8313	6488	4623	3053
17.0	16325	14964	13464	12227	11311	10259	8817	6933	4934	3253
15.0	17845	16329	14424	12794	11692	10596	9184	7251	5176	3419
13.0	19592	17666	15558	13389	12048	10878	9506	7554	5396	3566
11.0	22293	18926	16604	13954	12353	11124	9752	7814	5587	3694
9.0	24960	20978	17589	14713	12721	11333	9946	8019	5747	3801
7.0	30139	22792	18345	15332	13042	11519	10101	8177	5875	3888
5.0	34002	24140	18919	15820	13304	11670	10218	8290	5972	3955
3.0	36780	25949	19720	16157	13487	11774	10297	8361	6070	4029
1.0	38586	27288	20214	16418	13616	11856	10352	8402	6065	4036
0.0	38722	27533	20299	16484	13656	11881	10365	8398	6062	4040
-1.0	38586	27288	20214	16418	13616	11856	10352	8402	6065	4036
-3.0	36780	25949	19720	16157	13487	11774	10297	8361	6070	4029
-5.0	34002	24140	18919	15820	13304	11670	10218	8290	5972	3955
-7.0	30139	22792	18345	15332	13042	11519	10101	8177	5875	3888
-9.0	24960	20978	17589	14713	12721	11333	9946	8019	5747	3801
-11.0	22293	18926	16604	13954	12353	11124	9752	7814	5587	3694
-13.0	19592	17666	15558	13389	12048	10878	9506	7554	5396	3566
-15.0	17845	16329	14424	12794	11692	10596	9184	7251	5176	3419
-17.0	16325	14964	13464	12227	11311	10259	8817	6933	4934	3253
-19.5	14411	13455	12501	11640	10823	9790	8313	6488	4623	3053
-22.5	12775	12215	11632	10924	10158	9092	7615	5909	4208	2797
-25.5	11664	11274	10802	10152	9387	8277	6858	5317	3783	2505
-29.0	10565	10231	9775	9088	8284	7254	5941	4603	3247	2227
-33.0	9146	8802	8311	7616	6882	5970	4900	3779	2675	1912
-37.5	7202	6896	6480	5927	5327	4603	3765	2897	2130	1624
-42.5	5169	4936	4629	4212	3769	3220	2655	2122	1676	1348
-47.5	3432	3269	3066	2794	2492	2208	1895	1619	1349	1129
-55.0	1797	1741	1662	1573	1483	1368	1257	1129	990	864
-65.0	939	925	905	879	852	810	760	699	627	557
-75.0	464	458	448	435	420	400	375	344	306	266
-85.0	82	80	78	76	73	71	67	62	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	208	128	60	14	0
65.0	443	276	129	24	0
55.0	686	443	207	37	0
47.5	869	561	266	49	0
42.5	991	634	310	56	0
37.5	1128	700	351	63	0
33.0	1263	760	385	68	0
29.0	1382	810	411	73	0
25.5	1499	852	432	76	0
22.5	1589	879	448	78	0
19.5	1669	906	463	81	0
17.0	1740	925	473	82	0
15.0	1791	939	481	83	0
13.0	1836	951	487	84	0
11.0	1875	960	493	87	0
9.0	1908	969	499	87	0

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

CANDELA TABULATION - (Cont.)

7.0	1934	976	503	87	0
5.0	1960	982	509	87	0
3.0	1986	987	510	87	0
1.0	1991	988	511	87	0
0.0	1993	988	511	87	0
-1.0	1991	988	511	87	0
-3.0	1986	987	510	87	0
-5.0	1960	982	509	87	0
-7.0	1934	976	503	87	0
-9.0	1908	969	499	87	0
-11.0	1875	960	493	87	0
-13.0	1836	951	487	84	0
-15.0	1791	939	481	83	0
-17.0	1740	925	473	82	0
-19.5	1669	906	463	81	0
-22.5	1589	879	448	78	0
-25.5	1499	852	432	76	0
-29.0	1382	810	411	73	0
-33.0	1263	760	385	68	0
-37.5	1128	700	351	63	0
-42.5	991	634	310	56	0
-47.5	869	561	266	49	0
-55.0	686	443	207	37	0
-65.0	443	276	129	24	0
-75.0	208	128	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-40.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 31918.84

Total Field Lumens (one side of beam only) = 18519.58

* 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	0.90	1.80	1.79	1.77	1.74	1.71	1.67	1.63	1.59	1.92
65	2.27	4.53	4.51	4.47	4.41	4.35	4.27	4.18	4.08	4.95
55	4.50	8.99	8.92	8.83	8.73	8.59	8.41	8.18	7.91	9.46
47.5	6.86	13.67	13.51	13.29	13.04	12.71	12.30	11.81	11.24	13.20
42.5	7.67	15.32	15.15	14.86	14.52	14.09	13.57	12.97	12.30	14.37
37.5	10.97	21.95	21.77	21.41	20.93	20.30	19.54	18.67	17.72	20.74
33	12.81	25.57	25.38	25.04	24.55	23.91	23.11	22.16	21.11	24.81
29	13.46	26.84	26.62	26.29	25.83	25.24	24.52	23.66	22.69	26.84
25.5	13.48	26.84	26.60	26.20	25.64	24.93	24.16	23.33	22.41	26.63
22.5	13.62	27.09	26.71	26.11	25.26	24.19	23.11	22.10	21.05	24.91
19.5	16.71	33.06	32.26	31.21	29.93	28.33	26.60	24.88	23.21	27.01
17	18.12	35.44	33.81	32.02	30.13	27.85	25.65	23.64	21.65	24.58
15	19.99	38.95	36.65	33.62	29.83	26.21	23.44	21.13	19.17	21.40
13	30.81	59.76	55.09	47.66	39.42	32.67	27.49	23.59	20.92	23.13
11	51.14 *	98.35 *	87.27 *	71.50	56.50	43.72	33.80	27.24	22.98	24.86
9	85.90 *	162.42 *	137.81 *	109.45 *	82.94 *	59.87	43.55	32.23	25.52	26.79
7	141.02 *	261.98 *	218.00 *	167.64 *	119.76 *	82.42 *	55.98	38.78	28.95	28.82
5	221.08 *	410.46 *	335.69 *	248.12 *	166.40 *	108.11 *	70.38	46.66	32.52	30.44
3	303.56 *	567.35 *	466.14 *	335.84 *	217.09 *	136.37 *	85.80 *	53.78	35.39	32.08
1	352.50 *	669.21 *	568.19 *	410.77 *	260.49 *	160.30 *	96.72 *	58.50	37.66	33.69
0	183.53 *	352.92 *	303.87 *	220.07 *	138.90 *	84.13 *	50.09 *	30.15	19.34	17.24
-1	183.53 *	352.92 *	303.87 *	220.07 *	138.90 *	84.13 *	50.09 *	30.15	19.34	17.24
	352.50 *	669.21 *	568.19 *	410.77 *	260.49 *	160.30 *	96.72 *	58.50	37.66	33.69

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

LUMENS TABULATION - (Cont.)

-3	303.56 *	567.35 *	466.14 *	335.84 *	217.09 *	136.37 *	85.80 *	53.78	35.39	32.08
-5	221.08 *	410.46 *	335.69 *	248.12 *	166.40 *	108.11 *	70.38	46.66	32.52	30.44
-7	141.02 *	261.98 *	218.00 *	167.64 *	119.76 *	82.42 *	55.98	38.78	28.95	28.82
-9	85.90 *	162.42 *	137.81 *	109.45 *	82.94 *	59.87	43.55	32.23	25.52	26.79
-11	51.14 *	98.35 *	87.27 *	71.50	56.50	43.72	33.80	27.24	22.98	24.86
-13	30.81	59.76	55.09	47.66	39.42	32.67	27.49	23.59	20.92	23.13
-15	19.99	38.95	36.65	33.62	29.83	26.21	23.44	21.13	19.17	21.40
-17	18.12	35.44	33.81	32.02	30.13	27.85	25.65	23.64	21.65	24.58
-19.5	16.71	33.06	32.26	31.21	29.93	28.33	26.60	24.88	23.21	27.01
-22.5	13.62	27.09	26.71	26.11	25.26	24.19	23.11	22.10	21.05	24.91
-25.5	13.48	26.84	26.60	26.20	25.64	24.93	24.16	23.33	22.41	26.63
-29	13.46	26.84	26.62	26.29	25.83	25.24	24.52	23.66	22.69	26.84
-33	12.81	25.57	25.38	25.04	24.55	23.91	23.11	22.16	21.11	24.81
-37.5	10.97	21.95	21.77	21.41	20.93	20.30	19.54	18.67	17.72	20.74
-42.5	7.67	15.32	15.15	14.86	14.52	14.09	13.57	12.97	12.30	14.37
-47.5	6.86	13.67	13.51	13.29	13.04	12.71	12.30	11.81	11.24	13.20
-55	4.50	8.99	8.92	8.83	8.73	8.59	8.41	8.18	7.91	9.46
-65	2.27	4.53	4.51	4.47	4.41	4.35	4.27	4.18	4.08	4.95
-75	0.90	1.80	1.79	1.77	1.74	1.71	1.67	1.63	1.59	1.92
-85	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.14
-90										
Total	3021.97	5725.24	4891.79	3752.63	2672.35	1900.22	1388.55	1058.74	859.05	916.06

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.16	0.16	0.17	0.18	0.18	0.17	0.14	0.15	0.11	0.05
85	2.21	2.10	2.28	2.38	2.37	2.24	1.82	1.99	1.50	0.59
75	5.69	5.40	5.88	6.12	6.09	5.76	4.73	5.27	4.01	1.54
65	10.70	9.99	10.69	10.95	10.76	10.05	8.18	9.11	7.03	2.74
55	14.55	13.06	13.42	13.17	12.38	11.13	8.75	9.51	7.30	2.88

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

LUMENS TABULATION - (Cont.)

47.5										
	15.68	13.84	13.85	13.02	11.60	9.86	7.40	7.75	5.81	2.30
42.5	22.66	20.07	20.04	18.59	16.00	12.87	9.12	9.09	6.57	2.59
37.5	27.19	24.18	24.29	22.60	19.31	15.07	10.10	9.53	6.59	2.57
33	29.68	26.60	26.90	25.13	21.51	16.68	10.83	9.69	6.41	2.46
29	29.72	26.96	27.53	25.88	22.25	17.30	11.08	9.52	6.05	2.28
25.5	27.84	25.43	26.24	24.94	21.57	16.81	10.73	8.99	5.50	2.04
22.5	29.88	27.26	28.33	27.26	23.77	18.57	11.85	9.76	5.75	2.10
19.5	26.57	24.00	24.99	24.26	21.37	16.75	10.67	8.68	4.98	1.80
17	22.57	20.04	20.78	20.29	18.01	14.17	9.03	7.29	4.10	1.47
15	23.96	20.84	21.42	20.97	18.74	14.80	9.45	7.58	4.20	1.49
13	25.38	21.60	21.99	21.54	19.38	15.37	9.82	7.84	4.28	1.50
11	26.81	22.43	22.52	22.01	19.88	15.84	10.14	8.06	4.34	1.52
9	28.14	23.29	23.04	22.40	20.28	16.22	10.40	8.24	4.40	1.53
7	29.18	24.00	23.47	22.72	20.58	16.51	10.60	8.39	4.45	1.55
5	30.12	24.53	23.80	22.95	20.80	16.73	10.78	8.52	4.50	1.55
3	30.93	24.91	24.04	23.12	20.93	16.85	10.87	8.60	4.53	1.56
1	15.66	12.56	12.09	11.60	10.50	8.43	5.44	4.31	2.27	0.78
0	15.66	12.56	12.09	11.60	10.50	8.43	5.44	4.31	2.27	0.78
-1	30.93	24.91	24.04	23.12	20.93	16.85	10.87	8.60	4.53	1.56
-3	30.12	24.53	23.80	22.95	20.80	16.73	10.78	8.52	4.50	1.55
-5	29.18	24.00	23.47	22.72	20.58	16.51	10.60	8.39	4.45	1.55
-7	28.14	23.29	23.04	22.40	20.28	16.22	10.40	8.24	4.40	1.53
-9	26.81	22.43	22.52	22.01	19.88	15.84	10.14	8.06	4.34	1.52
-11	25.38	21.60	21.99	21.54	19.38	15.37	9.82	7.84	4.28	1.50
-13	23.96	20.84	21.42	20.97	18.74	14.80	9.45	7.58	4.20	1.49
-15	22.57	20.04	20.78	20.29	18.01	14.17	9.03	7.29	4.10	1.47
-17	26.57	24.00	24.99	24.26	21.37	16.75	10.67	8.68	4.98	1.80
-19.5	29.88	27.26	28.33	27.26	23.77	18.57	11.85	9.76	5.75	2.10

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

LUMENS TABULATION - (Cont.)

-22.5	27.84	25.43	26.24	24.94	21.57	16.81	10.73	8.99	5.50	2.04
-25.5	29.72	26.96	27.53	25.88	22.25	17.30	11.08	9.52	6.05	2.28
-29	29.68	26.60	26.90	25.13	21.51	16.68	10.83	9.69	6.41	2.46
-33	27.19	24.18	24.29	22.60	19.31	15.07	10.10	9.53	6.59	2.57
-37.5	22.66	20.07	20.04	18.59	16.00	12.87	9.12	9.09	6.57	2.59
-42.5	15.68	13.84	13.85	13.02	11.60	9.86	7.40	7.75	5.81	2.30
-47.5	14.55	13.06	13.42	13.17	12.38	11.13	8.75	9.51	7.30	2.88
-55	10.70	9.99	10.69	10.95	10.76	10.05	8.18	9.11	7.03	2.74
-65	5.69	5.40	5.88	6.12	6.09	5.76	4.73	5.27	4.01	1.54
-75	2.21	2.10	2.28	2.38	2.37	2.24	1.82	1.99	1.50	0.59
-85	0.16	0.16	0.17	0.18	0.18	0.17	0.14	0.15	0.11	0.05
-90										
Total	950.52	826.48	835.54	804.20	716.56	576.38	383.88	335.73	209.35	77.81

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.01	0.00	2.72
85			
	0.12	0.00	36.15
75			
	0.30	0.01	92.80
65			
	0.52	0.01	173.25
55			
	0.55	0.01	228.31
47.5			
	0.45	0.01	236.42
42.5			
	0.52	0.01	332.13
37.5			
	0.52	0.01	390.40
33			
	0.50	0.01	418.41
29			
	0.46	0.01	419.26
25.5			
	0.41	0.01	404.66
22.5			
	0.42	0.01	458.19
19.5			
	0.36	0.01	437.34
17			
	0.30	0.01	408.44

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

LUMENS TABULATION - (Cont.)

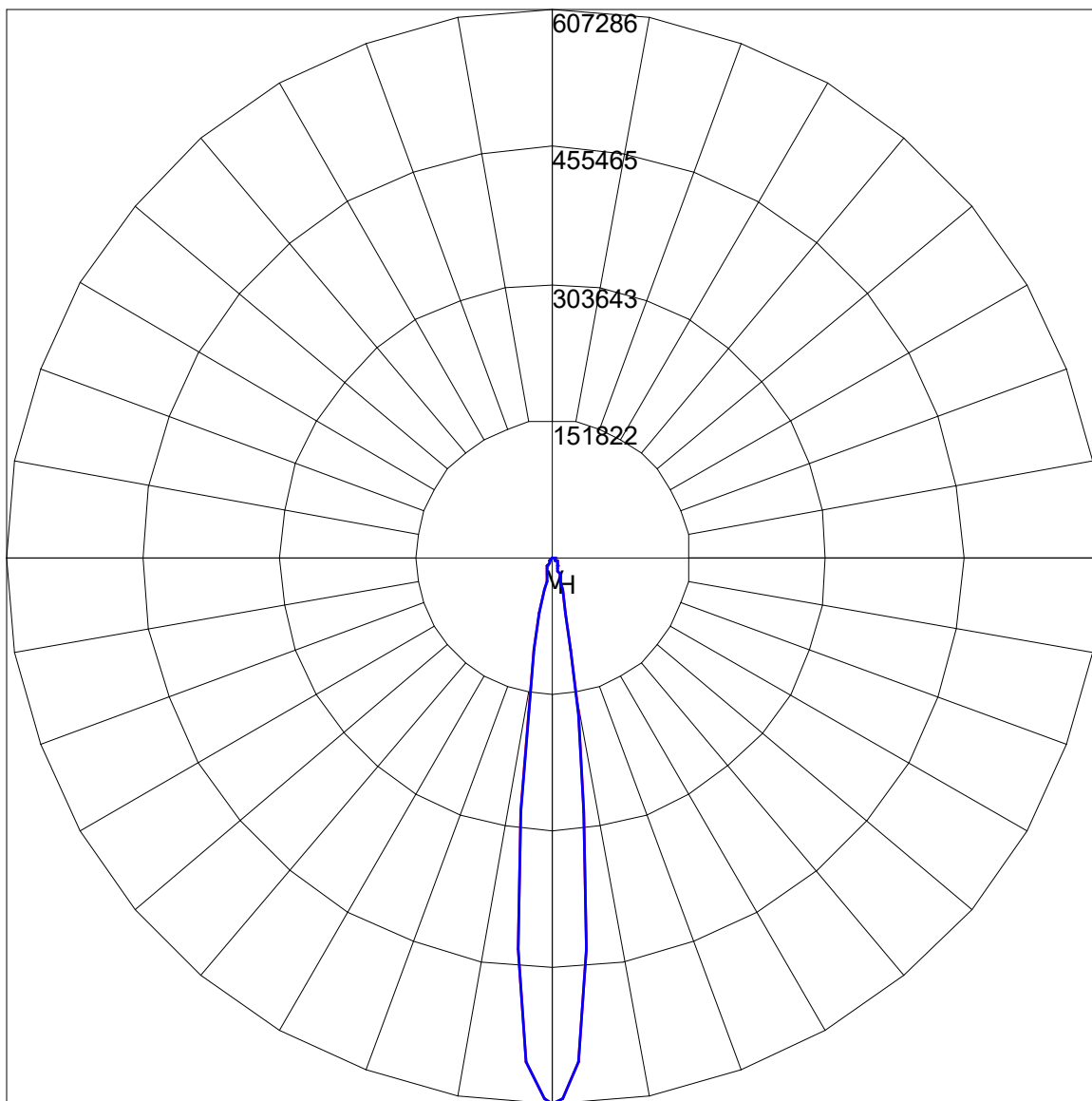
15	0.30	0.01	504.29
13	0.30	0.01	666.35
11	0.31	0.01	920.37
9	0.31	0.01	1301.59
7	0.31	0.01	1831.64
5	0.32	0.01	2398.03
3	0.32	0.01	2814.69
1	0.16	0.00	1484.02
0	0.16	0.00	1484.02
-1	0.32	0.01	2814.69
-3	0.32	0.01	2398.03
-5	0.31	0.01	1831.64
-7	0.31	0.01	1301.59
-9	0.31	0.01	920.37
-11	0.30	0.01	666.35
-13	0.30	0.01	504.29
-15	0.30	0.01	408.44
-17	0.36	0.01	437.34
-19.5	0.42	0.01	458.19
-22.5	0.41	0.01	404.66
-25.5	0.46	0.01	419.26
-29	0.50	0.01	418.41
-33	0.52	0.01	390.40
-37.5	0.52	0.01	332.13
-42.5	0.45	0.01	236.42
-47.5	0.55	0.01	228.31
-55	0.52	0.01	173.25
-65	0.30	0.01	92.80

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

LUMENS TABULATION - (Cont.)

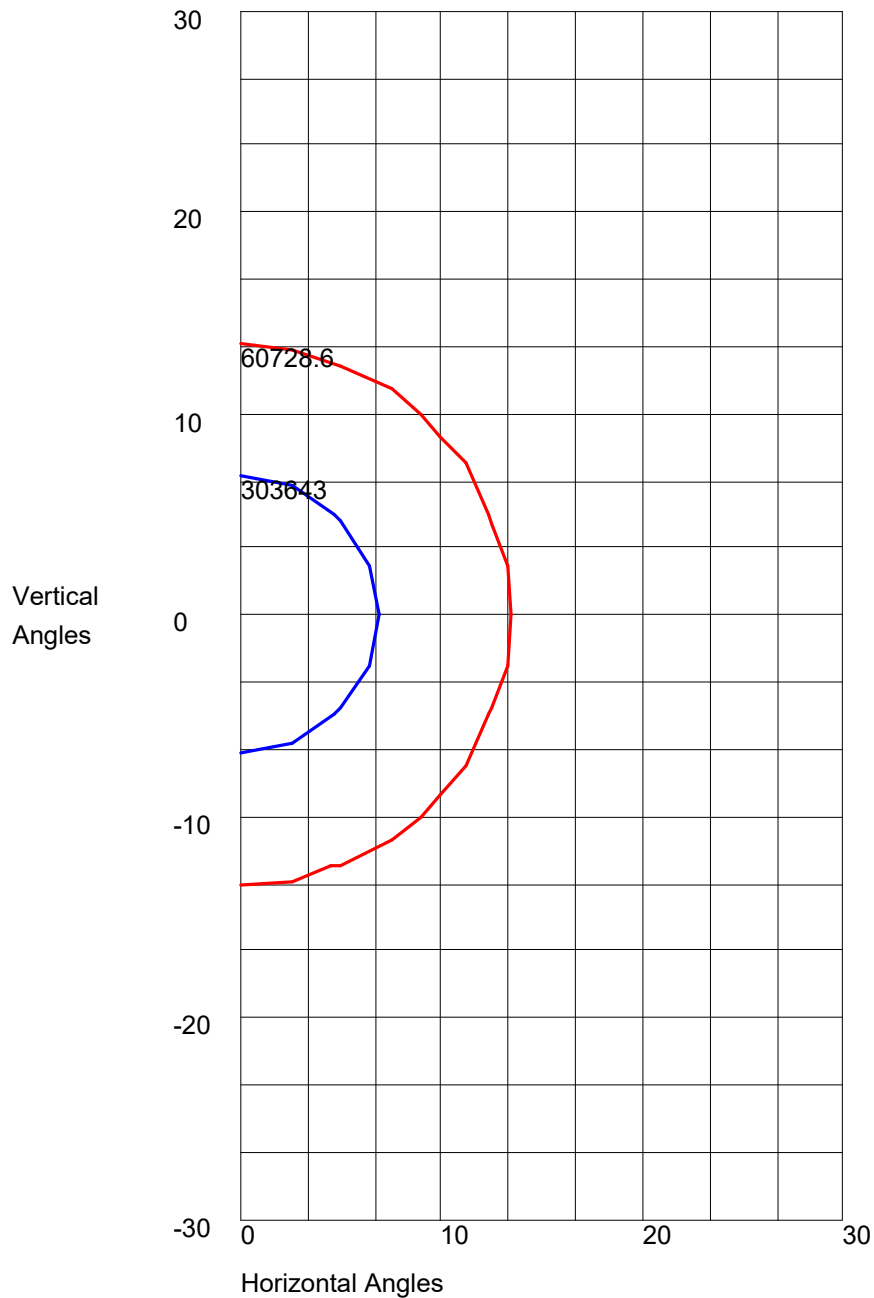
-75	0.12	0.00	36.15
-85	0.01	0.00	2.72
-90			
Total	15.53	0.30	31918.87

AXIAL CANDELA DISPLAY



Maximum Candela = 607286 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 607286 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 303643
10% Maximum Candela = 60728.6