



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-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-100L-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	815311
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	28271
Beam Efficiency	N.A.
Field Lumens	55130
Field Efficiency	N.A.
Spill Lumens	36572
Luminaire Lumens	91702
Total Efficiency	N.A.
Total Luminaire Watts	766.7
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	113	85	0
75	577	75	0
65	1245	65	194
55	2503	55	1346
47.5	5410	47.5	2881
42.5	8491	42.5	5239
37.5	12351	37.5	8600
33	15330	33	12130
29	17663	29	14787
25.5	20720	25.5	17978
22.5	25716	22.5	22858
19.5	33642	19.5	31189
17	47058	17	44497
15	66994	15	62656
13	104556	13	99040
11	165013	11	156172
9	259366	9	245434
7	400028	7	377621
5	600834	5	562935
3	761308	3	736161
1	808699	1	799915
0	813547	0	813547
-1	808699	-1	815311
-3	761308	-3	783623
-5	600834	-5	646289
-7	400028	-7	451339
-9	259366	-9	294218
-11	165013	-11	184424
-13	104556	-13	116525
-15	66994	-15	70157
-17	47058	-17	49071
-19.5	33642	-19.5	34329
-22.5	25716	-22.5	26274
-25.5	20720	-25.5	21830
-29	17663	-29	18869
-33	15330	-33	16603
-37.5	12351	-37.5	13666
-42.5	8491	-42.5	9958
-47.5	5410	-47.5	6454
-55	2503	-55	3192
-65	1245	-65	1714
-75	577	-75	943
-85	113	-85	257
-90	0	-90	1

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CANDELA TABULATION

Maximum Candela = 815311

Beam Edge = 407655.5 Cd (50% of Max.)

Field Edge = 81531.1 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	8	21	19	15	13	10	7	5	3
75.0	0	24	65	75	79	69	61	48	31	25
65.0	0	40	119	188	260	290	301	307	305	302
55.0	0	56	187	357	513	630	717	794	874	952
47.5	0	68	244	481	715	908	1063	1250	1448	1662
42.5	0	76	287	567	868	1173	1443	1799	2230	2676
37.5	0	83	328	658	1058	1525	1972	2650	3510	4406
33.0	0	89	365	747	1257	1903	2625	3755	5064	6342
29.0	0	94	401	827	1438	2315	3362	4978	6761	8399
25.5	0	97	432	899	1618	2688	4171	6156	8293	10203
22.5	0	100	456	951	1768	3101	4856	7157	9559	11756
19.5	0	103	479	1006	1903	3488	5564	8147	10771	13079
17.0	0	105	497	1049	2015	3818	6109	8938	11741	13962
15.0	0	106	510	1080	2099	4095	6536	9523	12486	14635
13.0	0	108	522	1111	2176	4348	6940	10104	13162	15252
11.0	0	111	534	1139	2247	4576	7310	10643	13682	15844
9.0	0	112	544	1163	2311	4777	7641	11119	14101	16402
7.0	0	112	553	1185	2367	4951	7931	11527	14490	16850
5.0	0	112	565	1205	2416	5103	8179	11864	14841	17194
3.0	0	113	570	1226	2466	5284	8401	12119	15134	17456
1.0	0	113	575	1239	2491	5368	8461	12300	15281	17614
0.0	0	113	577	1245	2503	5410	8491	12351	15330	17663
-1.0	0	113	580	1250	2520	5437	8532	12404	15381	17751
-3.0	0	114	586	1261	2554	5492	8615	12430	15434	17858
-5.0	0	114	592	1264	2559	5445	8541	12396	15418	17835
-7.0	0	115	590	1267	2563	5397	8480	12292	15328	17735
-9.0	0	115	591	1268	2547	5312	8367	12114	15160	17575
-11.0	0	115	591	1266	2521	5192	8200	11861	14913	17358
-13.0	0	113	590	1263	2486	5037	7980	11528	14589	17093
-15.0	0	112	587	1255	2444	4847	7703	11128	14222	16783
-17.0	0	111	583	1246	2393	4622	7381	10704	13804	16196
-19.5	0	110	575	1229	2319	4335	6927	10089	13138	15363
-22.5	0	108	562	1204	2238	3982	6265	9244	12089	14347
-25.5	0	106	546	1179	2141	3583	5590	8335	10956	13192
-29.0	0	103	524	1133	2010	3229	4790	7182	9495	11628
-33.0	0	99	495	1078	1867	2820	3979	5849	7791	9551
-37.5	0	94	463	1007	1698	2461	3222	4447	5927	7366
-42.5	0	88	421	921	1524	2102	2616	3313	4169	5065
-47.5	0	81	374	827	1355	1789	2149	2601	3030	3505
-55.0	0	68	307	678	1082	1411	1623	1854	2079	2271
-65.0	0	51	213	454	732	946	1087	1217	1330	1413
-75.0	0	31	126	250	395	510	585	656	717	763
-85.0	0	11	44	81	121	151	169	187	200	210
-90.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	-25.5	-22.5	-19.5	-17.0	-15.0	-13.0	-11.0	-9.0	-7.0	-5.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	2	2	1	1	1	1	1	0	0	0
75.0	15	10	7	4	2	1	1	0	0	0
65.0	294	285	282	274	265	256	248	238	225	210
55.0	1017	1081	1144	1187	1219	1249	1273	1294	1314	1331
47.5	1828	2026	2173	2312	2443	2545	2624	2718	2791	2841
42.5	3169	3568	3966	4241	4470	4671	4831	4976	5098	5180
37.5	5188	5822	6456	6936	7283	7662	7982	8239	8405	8496
33.0	7441	8346	9225	9939	10435	10874	11226	11493	11706	11868
29.0	9778	10886	11861	12556	13052	13421	13743	14006	14248	14475
25.5	11805	12926	13839	14451	15016	15559	16036	16609	17083	17424
22.5	13301	14382	15358	16274	17141	18086	18877	20051	21054	21817
19.5	14587	15809	17195	18724	20267	22075	23747	25621	27296	28587
17.0	15608	17046	19015	21463	23645	26633	29343	33010	36388	38737
15.0	16393	18140	20804	23977	27271	31014	36301	41161	49548	56080
13.0	17115	19322	22965	27167	31197	37411	45806	56793	68551	83494 *
11.0	17806	20493	25048	30104	36260	45681	59437	78893	99558 *	122673 *
9.0	18631	21983	27415	34230	41520	57170	79404	106145 *	143547 *	178198 *
7.0	19334	23321	29486	38202	51157	70301	101320 *	145791 *	192683 *	264643 *
5.0	19867	24370	31087	41542	58812	86190 *	125049 *	180534 *	271424 *	366592 *
3.0	20282	25082	32581	44682	64038	97374 *	146810 *	219112 *	323656 *	495753 *
1.0	20603	25597	33467	46762	67015	103578 *	159652 *	247264 *	380486 *	586280 *
0.0	20720	25716	33642	47058	66994	104556 *	165013 *	259366 *	400028 *	600834 *
-1.0	20873	25991	33919	47379	67350	104432 *	161558 *	251591 *	387822 *	596463 *
-3.0	20968	25848	33282	45477	64870	99713 *	152411 *	232660 *	355291 *	531575 *
-5.0	20717	25090	31671	42092	60038	89066 *	131616 *	194082 *	292572 *	411875 *
-7.0	20361	24203	30224	38987	52635	73589	107412 *	155775 *	211176 *	310330 *
-9.0	19911	23253	28498	35347	43714	61156	85371 *	114762 *	160383 *	205125 *
-11.0	19378	22094	26523	31363	38753	49179	64414	85825 *	110361 *	139004 *
-13.0	18985	21212	24784	28859	33080	40046	49092	60926	74699	93267 *
-15.0	18468	20243	23022	26137	29479	33117	38640	43973	53613	62397
-17.0	17912	19328	21441	23965	26173	28901	31381	35618	39697	43355
-19.5	17213	18406	19719	21457	23076	24839	26569	28582	30420	31929
-22.5	16065	17280	18384	19334	20331	21381	22358	23597	24671	25449
-25.5	14774	16025	17177	17961	18551	19119	19621	20237	20830	21279
-29.0	13231	14418	15472	16328	16925	17351	17673	17938	18188	18460
-33.0	11105	12363	13461	14133	14583	15002	15417	15752	16015	16231
-37.5	8612	9627	10588	11324	11840	12261	12630	12944	13199	13387
-42.5	6024	6791	7509	8036	8425	8777	9082	9344	9558	9720
-47.5	3932	4405	4828	5191	5496	5758	5980	6162	6311	6424
-55.0	2442	2576	2709	2831	2921	3004	3065	3108	3141	3163
-65.0	1484	1531	1572	1602	1622	1640	1658	1671	1682	1690
-75.0	799	826	852	872	888	901	912	921	929	940
-85.0	218	226	234	241	246	247	253	252	252	251
-90.0	0	0	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	-3.0	-1.0	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	206	198	194	198	206	210	225	238	248	256

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CANDELA TABULATION - (Cont.)

55.0	1350	1347	1346	1347	1350	1331	1314	1294	1273	1249
47.5	2895	2886	2881	2886	2895	2841	2791	2718	2624	2545
42.5	5271	5250	5239	5250	5271	5180	5098	4976	4831	4671
37.5	8518	8597	8600	8597	8518	8496	8405	8239	7982	7662
33.0	11966	12090	12130	12090	11966	11868	11706	11493	11226	10874
29.0	14602	14733	14787	14733	14602	14475	14248	14006	13743	13421
25.5	17632	17860	17978	17860	17632	17424	17083	16609	16036	15559
22.5	22327	22734	22858	22734	22327	21817	21054	20051	18877	18086
19.5	30025	30987	31189	30987	30025	28587	27296	25621	23747	22075
17.0	42162	44511	44497	44511	42162	38737	36388	33010	29343	26633
15.0	60775	63221	62656	63221	60775	56080	49548	41161	36301	31014
13.0	94053 *	99162 *	99040 *	99162 *	94053 *	83494 *	68551	56793	45806	37411
11.0	144619 *	155895 *	156172 *	155895 *	144619 *	122673 *	99558 *	78893	59437	45681
9.0	218217 *	243684 *	245434 *	243684 *	218217 *	178198 *	143547 *	106145 *	79404	57170
7.0	323267 *	373326 *	377621 *	373326 *	323267 *	264643 *	192683 *	145791 *	101320 *	70301
5.0	487876 *	572515 *	562935 *	572515 *	487876 *	366592 *	271424 *	180534 *	125049 *	86190 *
3.0	630102 *	730548 *	736161 *	730548 *	630102 *	495753 *	323656 *	219112 *	146810 *	97374 *
1.0	733812 *	796273 *	799915 *	796273 *	733812 *	586280 *	380486 *	247264 *	159652 *	103578 *
0.0	761308 *	808699 *	813547 *	808699 *	761308 *	600834 *	400028 *	259366 *	165013 *	104556 *
-1.0	750948 *	810831 *	815311 *	810831 *	750948 *	596463 *	387822 *	251591 *	161558 *	104432 *
-3.0	676631 *	767732 *	783623 *	767732 *	676631 *	531575 *	355291 *	232660 *	152411 *	99713 *
-5.0	557768 *	635798 *	646289 *	635798 *	557768 *	411875 *	292572 *	194082 *	131616 *	89066 *
-7.0	386701 *	433952 *	451339 *	433952 *	386701 *	310330 *	211176 *	155775 *	107412 *	73589
-9.0	252213 *	283062 *	294218 *	283062 *	252213 *	205125 *	160383 *	114762 *	85371 *	61156
-11.0	164081 *	178366 *	184424 *	178366 *	164081 *	139004 *	110361 *	85825 *	64414	49179
-13.0	106695 *	113821 *	116525 *	113821 *	106695 *	93267 *	74699	60926	49092	40046
-15.0	68711	71642	70157	71642	68711	62397	53613	43973	38640	33117
-17.0	47221	49449	49071	49449	47221	43355	39697	35618	31381	28901
-19.5	33570	34414	34329	34414	33570	31929	30420	28582	26569	24839
-22.5	25866	26186	26274	26186	25866	25449	24671	23597	22358	21381
-25.5	21534	21739	21830	21739	21534	21279	20830	20237	19621	19119
-29.0	18657	18813	18869	18813	18657	18460	18188	17938	17673	17351
-33.0	16388	16545	16603	16545	16388	16231	16015	15752	15417	15002
-37.5	13507	13638	13666	13638	13507	13387	13199	12944	12630	12261
-42.5	9896	9937	9958	9937	9896	9720	9558	9344	9082	8777
-47.5	6525	6478	6454	6478	6525	6424	6311	6162	5980	5758
-55.0	3191	3192	3192	3192	3191	3163	3141	3108	3065	3004
-65.0	1703	1710	1714	1710	1703	1690	1682	1671	1658	1640
-75.0	941	942	943	942	941	940	929	921	912	901
-85.0	253	256	257	256	253	251	252	252	253	247
-90.0	1	1	1	1	1	1	1	1	1	1

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	1	1	1	2	2	3	5	7	10	13
75.0	2	4	7	10	15	25	31	48	61	69
65.0	265	274	282	285	294	302	305	307	301	290
55.0	1219	1187	1144	1081	1017	952	874	794	717	630
47.5	2443	2312	2173	2026	1828	1662	1448	1250	1063	908
42.5	4470	4241	3966	3568	3169	2676	2230	1799	1443	1173
37.5	7283	6936	6456	5822	5188	4406	3510	2650	1972	1525
33.0	10435	9939	9225	8346	7441	6342	5064	3755	2625	1903
29.0	13052	12556	11861	10886	9778	8399	6761	4978	3362	2315
25.5	15016	14451	13839	12926	11805	10203	8293	6156	4171	2688

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CANDELA TABULATION - (Cont.)

22.5	17141	16274	15358	14382	13301	11756	9559	7157	4856	3101
19.5	20267	18724	17195	15809	14587	13079	10771	8147	5564	3488
17.0	23645	21463	19015	17046	15608	13962	11741	8938	6109	3818
15.0	27271	23977	20804	18140	16393	14635	12486	9523	6536	4095
13.0	31197	27167	22965	19322	17115	15252	13162	10104	6940	4348
11.0	36260	30104	25048	20493	17806	15844	13682	10643	7310	4576
9.0	41520	34230	27415	21983	18631	16402	14101	11119	7641	4777
7.0	51157	38202	29486	23321	19334	16850	14490	11527	7931	4951
5.0	58812	41542	31087	24370	19867	17194	14841	11864	8179	5103
3.0	64038	44682	32581	25082	20282	17456	15134	12119	8401	5284
1.0	67015	46762	33467	25597	20603	17614	15281	12300	8461	5368
0.0	66994	47058	33642	25716	20720	17663	15330	12351	8491	5410
-1.0	67350	47379	33919	25991	20873	17751	15381	12404	8532	5437
-3.0	64870	45477	33282	25848	20968	17858	15434	12430	8615	5492
-5.0	60038	42092	31671	25090	20717	17835	15418	12396	8541	5445
-7.0	52635	38987	30224	24203	20361	17735	15328	12292	8480	5397
-9.0	43714	35347	28498	23253	19911	17575	15160	12114	8367	5312
-11.0	38753	31363	26523	22094	19378	17358	14913	11861	8200	5192
-13.0	33080	28859	24784	21212	18985	17093	14589	11528	7980	5037
-15.0	29479	26137	23022	20243	18468	16783	14222	11128	7703	4847
-17.0	26173	23965	21441	19328	17912	16196	13804	10704	7381	4622
-19.5	23076	21457	19719	18406	17213	15363	13138	10089	6927	4335
-22.5	20331	19334	18384	17280	16065	14347	12089	9244	6265	3982
-25.5	18551	17961	17177	16025	14774	13192	10956	8335	5590	3583
-29.0	16925	16328	15472	14418	13231	11628	9495	7182	4790	3229
-33.0	14583	14133	13461	12363	11105	9551	7791	5849	3979	2820
-37.5	11840	11324	10588	9627	8612	7366	5927	4447	3222	2461
-42.5	8425	8036	7509	6791	6024	5065	4169	3313	2616	2102
-47.5	5496	5191	4828	4405	3932	3505	3030	2601	2149	1789
-55.0	2921	2831	2709	2576	2442	2271	2079	1854	1623	1411
-65.0	1622	1602	1572	1531	1484	1413	1330	1217	1087	946
-75.0	888	872	852	826	799	763	717	656	585	510
-85.0	246	241	234	226	218	210	200	187	169	151
-90.0	1	1	1	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	15	19	21	8	0
75.0	79	75	65	24	0
65.0	260	188	119	40	0
55.0	513	357	187	56	0
47.5	715	481	244	68	0
42.5	868	567	287	76	0
37.5	1058	658	328	83	0
33.0	1257	747	365	89	0
29.0	1438	827	401	94	0
25.5	1618	899	432	97	0
22.5	1768	951	456	100	0
19.5	1903	1006	479	103	0
17.0	2015	1049	497	105	0
15.0	2099	1080	510	106	0
13.0	2176	1111	522	108	0
11.0	2247	1139	534	111	0
9.0	2311	1163	544	112	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

CANDELA TABULATION - (Cont.)

7.0	2367	1185	553	112	0
5.0	2416	1205	565	112	0
3.0	2466	1226	570	113	0
1.0	2491	1239	575	113	0
0.0	2503	1245	577	113	0
-1.0	2520	1250	580	113	0
-3.0	2554	1261	586	114	0
-5.0	2559	1264	592	114	0
-7.0	2563	1267	590	115	0
-9.0	2547	1268	591	115	0
-11.0	2521	1266	591	115	0
-13.0	2486	1263	590	113	0
-15.0	2444	1255	587	112	0
-17.0	2393	1246	583	111	0
-19.5	2319	1229	575	110	0
-22.5	2238	1204	562	108	0
-25.5	2141	1179	546	106	0
-29.0	2010	1133	524	103	0
-33.0	1867	1078	495	99	0
-37.5	1698	1007	463	94	0
-42.5	1524	921	421	88	0
-47.5	1355	827	374	81	0
-55.0	1082	678	307	68	0
-65.0	732	454	213	51	0
-75.0	395	250	126	31	0
-85.0	121	81	44	11	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 45850.86

Total Field Lumens (one side of beam only) = 27564.83

* 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	0.30	0.61	0.63	0.66	0.70	0.73	0.75	0.77	0.80	1.03
55	2.35	4.72	4.71	4.67	4.63	4.58	4.51	4.42	4.31	5.22
47.5	4.83	9.68	9.59	9.40	9.18	8.90	8.59	8.26	7.86	9.24
42.5	6.19	12.41	12.30	12.05	11.75	11.36	10.93	10.44	9.86	11.47
37.5	10.54	21.03	20.86	20.58	20.15	19.52	18.73	17.80	16.78	19.52
33	14.19	28.20	27.93	27.59	27.04	26.28	25.30	24.11	22.79	26.49
29	16.37	32.51	32.16	31.69	31.04	30.28	29.36	28.24	26.93	31.52
25.5	17.42	34.54	34.10	33.52	32.70	31.70	30.64	29.51	28.22	33.35
22.5	18.60	36.78	36.10	35.16	33.84	32.21	30.64	29.17	27.62	32.50
19.5	24.62	48.44	46.84	44.87	42.54	39.73	37.00	34.39	31.80	36.64
17	28.78	56.20	52.99	49.61	46.12	41.89	37.91	34.22	30.78	34.53
15	32.73	64.13	60.09	54.76	48.29	41.94	36.73	32.09	28.21	30.83
13	49.36	96.56	89.46	78.06	65.17	54.01	44.85	37.50	32.09	34.32
11	77.71 *	150.30 *	135.17 *	113.38 *	91.64	72.27	56.11	44.50	36.52	38.07
9	122.02 *	232.09 *	201.67 *	164.79 *	129.14 *	97.16	72.01	53.39	41.61	42.23
7	188.86 *	352.66 *	299.10 *	236.01 *	177.41 *	129.79 *	91.83	65.07	48.34	46.77
5	287.30 *	534.85 *	438.28 *	331.82 *	238.42 *	165.79 *	114.07 *	78.75	55.55	50.74
3	396.31 *	737.00 *	601.74 *	441.50 *	300.05 *	201.43 *	135.69 *	90.56	61.22	54.20
1	466.48 *	879.99 *	743.23 *	541.09 *	353.07 *	231.83 *	151.18 *	98.13 *	65.15	56.95
0	245.09 *	471.86 *	407.51 *	298.03 *	194.13 *	124.68 *	79.37 *	50.56 *	33.35	29.10
-1	247.37 *	476.68 *	411.66 *	300.68 *	195.88 *	125.62 *	79.78 *	50.74 *	33.49	29.29
	483.94 *	915.12 *	776.55 *	566.83 *	370.22 *	239.45 *	154.37 *	99.41 *	65.90	57.88

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

-3	431.54 *	803.03 *	661.76 *	482.06 *	324.14 *	213.21 *	140.87 *	92.71	62.21	55.15
-5	330.09 *	613.16 *	506.44 *	371.38 *	257.48 *	176.65 *	119.68 *	81.37	56.73	51.70
-7	222.75 *	412.77 *	350.77 *	268.71 *	193.68 *	138.98 *	97.59 *	68.30	49.98	48.11
-9	143.17 *	267.19 *	231.06 *	186.27 *	142.17 *	105.10 *	77.50	56.98	43.68	44.02
-11	90.34 *	171.38 *	152.86 *	126.42 *	100.09 *	78.07	60.40	47.60	38.67	40.33
-13	56.68 *	109.85 *	100.60 *	86.03	70.35	57.78	47.94	40.11	34.42	37.17
-15	36.60	72.15	67.36	60.30	52.15	44.88	39.34	34.78	30.97	34.19
-17	31.84	62.65	59.28	55.06	50.64	45.80	41.60	38.05	34.65	39.13
-19.5	27.69	54.81	53.24	51.11	48.53	45.49	42.52	39.73	36.98	42.79
-22.5	21.94	43.53	42.90	41.91	40.42	38.61	36.86	35.19	33.46	39.52
-25.5	21.66	43.01	42.50	41.75	40.75	39.62	38.46	37.21	35.75	42.36
-29	21.57	42.86	42.38	41.74	40.96	40.06	39.00	37.75	36.29	42.95
-33	20.72	41.15	40.69	40.10	39.30	38.30	37.08	35.70	34.18	40.28
-37.5	17.97	35.75	35.33	34.73	33.97	33.00	31.84	30.52	29.01	33.86
-42.5	12.50	24.99	24.74	24.24	23.66	22.92	22.05	21.03	19.87	23.11
-47.5	11.03	22.13	22.00	21.63	21.18	20.60	19.90	19.04	18.05	21.10
-55	7.47	14.91	14.81	14.66	14.48	14.25	13.95	13.58	13.14	15.75
-65	4.04	8.06	8.01	7.94	7.85	7.74	7.61	7.46	7.30	8.86
-75	1.83	3.64	3.62	3.59	3.55	3.51	3.45	3.37	3.29	3.98
-85	0.20	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.36	0.43
-90										
Total	4252.98	8043.79	6903.39	5356.75	3928.85	2896.14	2168.38	1662.89	1328.18	1376.68

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	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.05
85	0.04	0.06	0.11	0.17	0.25	0.37	0.41	0.63	0.71	0.47
75	1.25	1.26	1.51	1.73	1.93	2.09	1.94	2.49	2.29	1.16
65	5.95	5.59	6.08	6.35	6.38	6.18	5.22	6.05	5.01	2.21
55	10.28	9.32	9.70	9.66	9.16	8.36	6.70	7.41	5.89	2.48

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

47.5										
	12.51	11.05	11.06	10.46	9.41	8.10	6.17	6.54	5.00	2.05
42.5										
	21.13	18.52	18.29	16.74	14.25	11.47	8.23	8.26	5.99	2.39
37.5										
	28.65	25.16	24.92	22.70	18.86	14.44	9.72	9.23	6.37	2.46
33										
	34.39	30.43	30.29	27.74	23.01	17.17	10.99	9.88	6.49	2.43
29										
	36.96	33.16	33.32	30.75	25.64	19.05	11.81	10.08	6.36	2.33
25.5										
	36.15	32.81	33.45	31.18	26.16	19.54	11.96	9.83	5.97	2.14
22.5										
	40.14	36.36	37.47	35.37	29.91	22.50	13.73	11.00	6.42	2.26
19.5										
	36.82	32.89	33.90	32.34	27.70	20.96	12.77	10.02	5.68	1.97
17										
	31.99	28.04	28.71	27.58	23.89	18.14	11.07	8.59	4.75	1.63
15										
	34.65	29.62	30.04	29.00	25.33	19.31	11.80	9.09	4.92	1.68
13										
	37.46	31.19	31.28	30.25	26.63	20.41	12.48	9.54	5.08	1.72
11										
	40.49	32.94	32.55	31.34	27.72	21.41	13.08	9.94	5.22	1.76
9										
	43.59	34.75	33.75	32.29	28.67	22.29	13.62	10.29	5.34	1.79
7										
	46.18	36.27	34.71	33.09	29.50	23.04	14.08	10.60	5.46	1.83
5										
	48.25	37.40	35.44	33.74	30.19	23.66	14.52	10.91	5.56	1.86
3										
	49.79	38.22	35.99	34.19	30.68	24.07	14.81	11.15	5.65	1.88
1										
	25.26	19.33	18.15	17.20	15.46	12.13	7.46	5.63	2.84	0.95
0										
	25.44	19.47	18.24	17.26	15.52	12.18	7.50	5.67	2.86	0.95
-1										
	50.77	39.10	36.70	34.68	31.14	24.48	15.11	11.43	5.77	1.91
-3										
	49.43	38.66	36.67	34.74	31.16	24.48	15.12	11.47	5.81	1.93
-5										
	47.42	37.72	36.32	34.62	31.02	24.32	15.00	11.41	5.82	1.93
-7										
	45.29	36.62	35.81	34.35	30.72	24.06	14.83	11.30	5.81	1.93
-9										
	42.81	35.32	35.17	33.94	30.24	23.64	14.57	11.13	5.78	1.93
-11										
	40.36	34.09	34.50	33.39	29.60	23.08	14.22	10.89	5.73	1.93
-13										
	38.07	32.93	33.80	32.73	28.80	22.36	13.76	10.58	5.66	1.92
-15										
	35.84	31.70	32.87	31.85	27.90	21.53	13.22	10.22	5.58	1.91
-17										
	42.06	38.01	39.50	38.18	33.39	25.59	15.66	12.21	6.83	2.36
-19.5										
	47.21	43.18	44.77	43.02	37.40	28.45	17.37	13.80	7.97	2.79

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

-22.5	44.06	40.16	41.49	39.62	34.10	25.75	15.68	12.80	7.71	2.72
-25.5	47.09	42.69	43.80	41.36	35.22	26.43	16.20	13.71	8.60	3.08
-29	47.53	42.67	43.13	40.17	33.93	25.43	15.95	14.18	9.26	3.36
-33	44.18	39.17	39.06	35.99	30.23	22.96	15.12	14.22	9.67	3.56
-37.5	36.80	32.40	32.06	29.40	24.98	19.83	14.00	13.91	9.79	3.66
-42.5	25.09	22.07	21.95	20.58	18.34	15.57	11.65	12.09	8.80	3.31
-47.5	23.22	20.90	21.59	21.31	20.07	17.99	14.07	15.10	11.24	4.26
-55	17.89	16.76	18.03	18.52	18.13	16.86	13.64	14.90	11.20	4.30
-65	10.20	9.68	10.56	11.02	10.97	10.34	8.42	9.23	6.96	2.71
-75	4.56	4.32	4.71	4.93	4.92	4.66	3.81	4.20	3.22	1.30
-85	0.49	0.46	0.51	0.54	0.54	0.52	0.43	0.49	0.38	0.16
-90										
Total	1387.75	1182.46	1181.97	1126.11	989.09	775.21	497.94	422.16	257.57	93.42

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		0.29
85				
	0.16	0.01		3.44
75				
	0.33	0.01		24.98
65				
	0.53	0.02		99.67
55				
	0.55	0.02		165.07
47.5				
	0.45	0.01		191.58
42.5				
	0.51	0.01		311.31
37.5				
	0.51	0.01		412.95
33				
	0.50	0.01		483.41
29				
	0.47	0.01		515.65
25.5				
	0.43	0.01		522.27
22.5				
	0.45	0.01		622.49
19.5				
	0.39	0.01		628.49
17				
	0.32	0.01		614.53

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

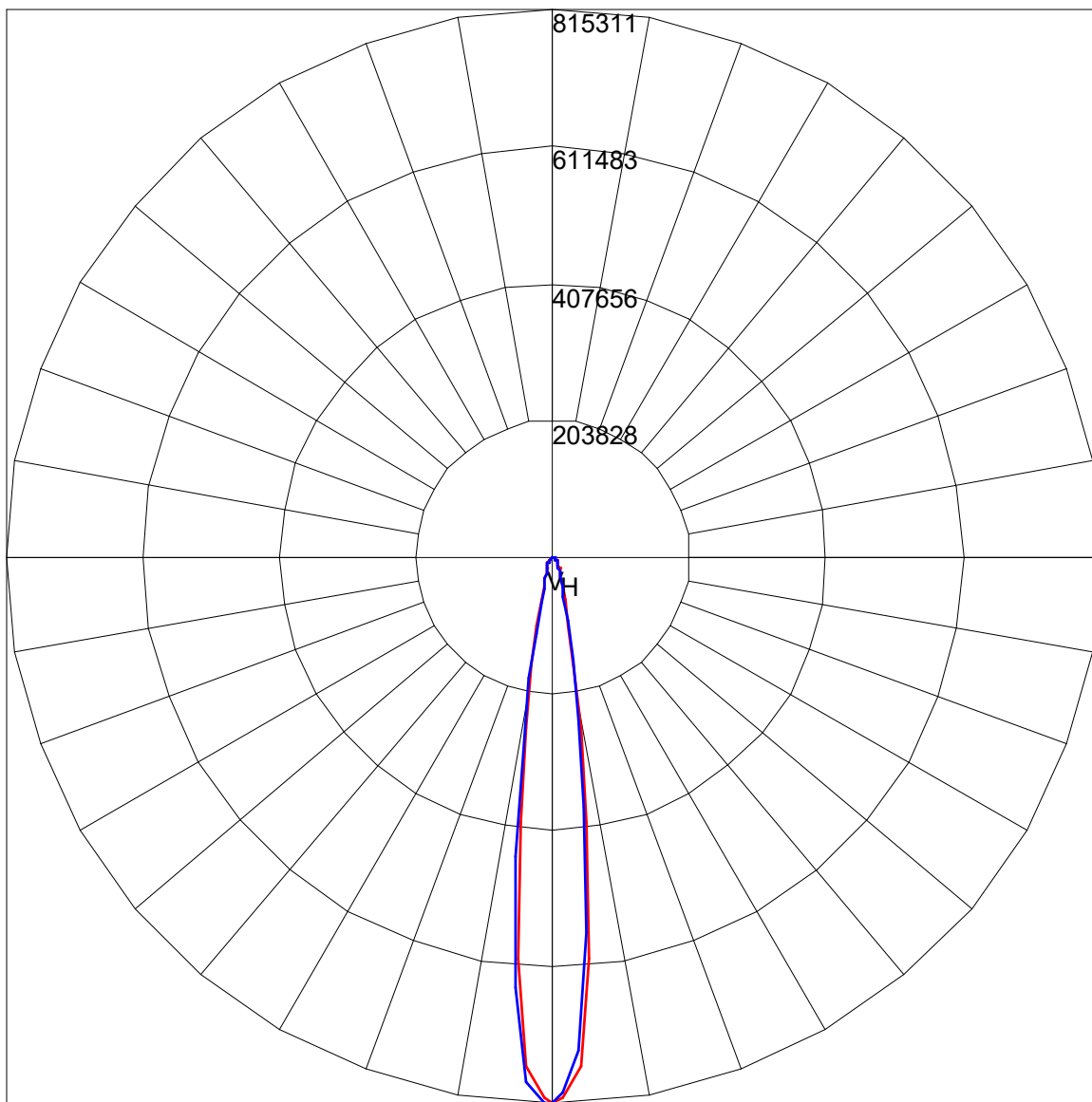
15	0.33	0.01	777.15
13	0.34	0.01	1022.05
11	0.34	0.01	1372.92
9	0.35	0.01	1862.58
7	0.35	0.01	2530.69
5	0.36	0.01	3261.6
3	0.36	0.01	3833.89
1	0.18	0.00	2058.28
0	0.18	0.00	2076.48
-1	0.37	0.01	3981.15
-3	0.37	0.01	3516.53
-5	0.37	0.01	2810.65
-7	0.37	0.01	2092.74
-9	0.37	0.01	1532.08
-11	0.37	0.01	1134.3
-13	0.37	0.01	861.94
-15	0.37	0.01	685.72
-17	0.46	0.01	712.96
-19.5	0.54	0.01	729.41
-22.5	0.52	0.01	638.97
-25.5	0.59	0.01	661.86
-29	0.65	0.01	661.84
-33	0.68	0.01	622.35
-37.5	0.70	0.02	533.53
-42.5	0.64	0.01	379.21
-47.5	0.82	0.02	367.26
-55	0.84	0.02	288.09
-65	0.56	0.01	165.54

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-50-GS.IES

LUMENS TABULATION - (Cont.)

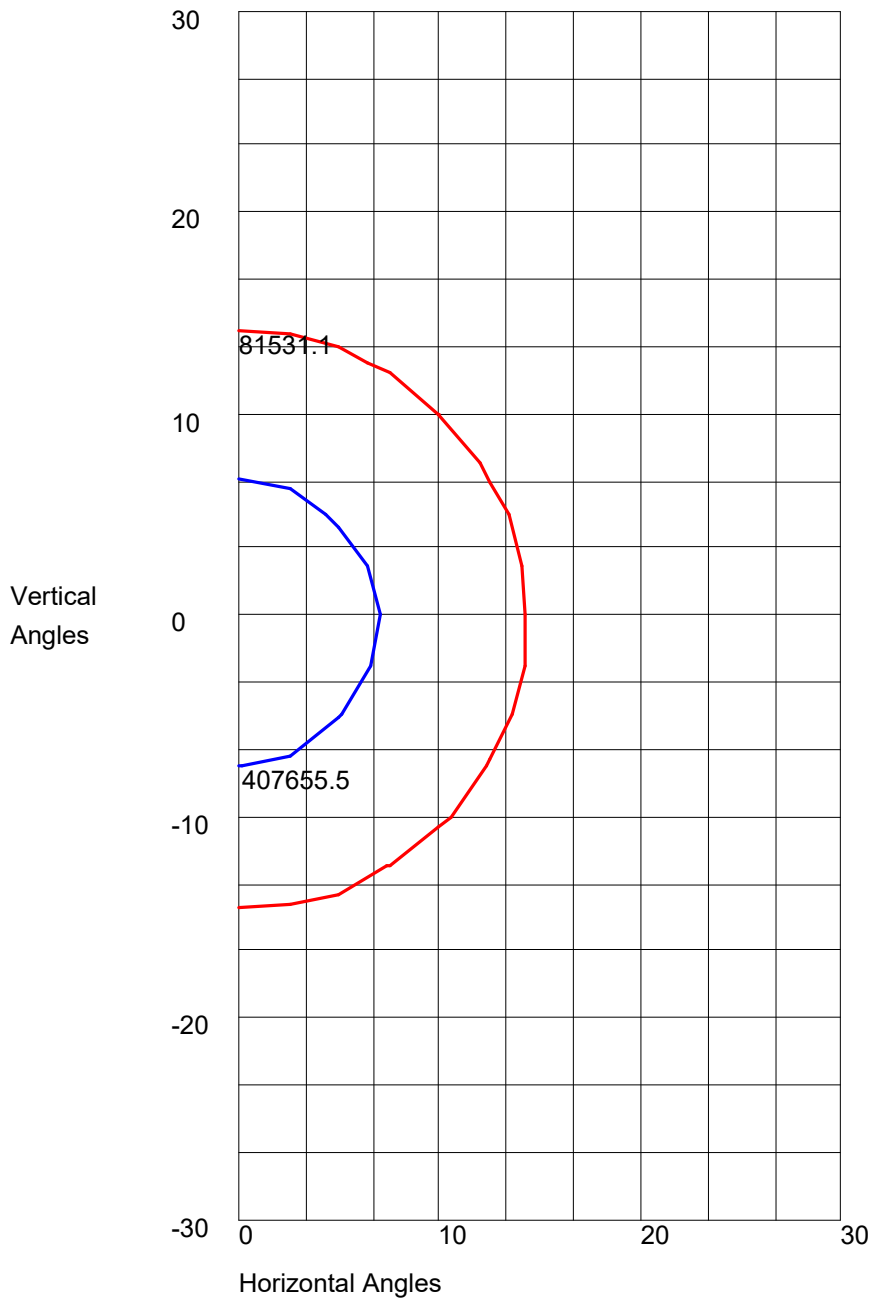
-75	0.28	0.01	74.76
-85	0.04	0.00	8.20
-90			
Total	18.70	0.42	45850.85

AXIAL CANDELA DISPLAY



Maximum Candela = 815311 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 815311 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 407655.5
10% Maximum Candela = 81531.1