



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-VNF-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13225
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 01/24/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-100L-VNF-50
[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	861042
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	13.8
Vertical Beam Angle (50%)	14.2
Horizontal Field Angle (10%)	27.7
Vertical Field Angle (10%)	27.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	28658
Beam Efficiency	N.A.
Field Lumens	55360
Field Efficiency	N.A.
Spill Lumens	40509
Luminaire Lumens	95869
Total Efficiency	N.A.
Total Luminaire Watts	772.6
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	198	85	201
75	827	75	818
65	1540	65	1551
55	2928	55	2926
47.5	6019	47.5	6021
42.5	9086	42.5	9120
37.5	12605	37.5	12632
33	15471	33	15418
29	17717	29	17705
25.5	20558	25.5	20758
22.5	25006	22.5	25305
19.5	32034	19.5	32140
17	44671	17	44861
15	64110	15	64858
13	102698	13	104875
11	165475	11	173099
9	268548	9	281863
7	421341	7	437304
5	626596	5	639371
3	798658	3	802525
1	853294	1	853951
0	861042	0	861042
-1	853294	-1	853951
-3	798658	-3	802525
-5	626596	-5	639371
-7	421341	-7	437304
-9	268548	-9	281863
-11	165475	-11	173099
-13	102698	-13	104875
-15	64110	-15	64858
-17	44671	-17	44861
-19.5	32034	-19.5	32140
-22.5	25006	-22.5	25305
-25.5	20558	-25.5	20758
-29	17717	-29	17705
-33	15471	-33	15418
-37.5	12605	-37.5	12632
-42.5	9086	-42.5	9120
-47.5	6019	-47.5	6021
-55	2928	-55	2926
-65	1540	-65	1551
-75	827	-75	818
-85	198	-85	201
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 861042

Beam Edge = 430521 Cd (50% of Max.)

Field Edge = 86104.2 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	16	49	75	102	121	133	146	157	166
75.0	0	47	151	255	377	469	529	581	625	666
65.0	0	76	265	484	724	895	1005	1111	1203	1278
55.0	0	106	392	733	1088	1355	1534	1732	1917	2073
47.5	0	128	486	907	1360	1737	2045	2435	2835	3286
42.5	0	141	546	1015	1542	2040	2506	3155	3929	4766
37.5	0	153	602	1117	1732	2418	3148	4274	5586	6857
33.0	0	163	648	1202	1921	2826	3928	5620	7319	8943
29.0	0	171	688	1273	2088	3269	4784	6884	8950	10880
25.5	0	177	719	1334	2251	3666	5605	7980	10324	12407
22.5	0	181	744	1374	2378	4105	6260	8894	11433	13522
19.5	0	185	766	1415	2493	4488	6886	9745	12466	14516
17.0	0	188	781	1444	2596	4791	7346	10399	13160	15254
15.0	0	190	791	1465	2669	5047	7696	10882	13649	15767
13.0	0	192	800	1483	2734	5273	8021	11323	14090	16214
11.0	0	198	808	1499	2790	5468	8312	11707	14470	16622
9.0	0	198	814	1512	2837	5633	8560	12030	14785	16983
7.0	0	198	820	1522	2875	5765	8765	12292	15036	17266
5.0	0	198	828	1531	2903	5868	8923	12492	15224	17477
3.0	0	198	827	1539	2932	5990	9083	12605	15353	17614
1.0	0	198	827	1540	2929	6009	9085	12630	15446	17701
0.0	0	198	827	1540	2928	6019	9086	12605	15471	17717
-1.0	0	198	827	1540	2929	6009	9085	12630	15446	17701
-3.0	0	198	827	1539	2932	5990	9083	12605	15353	17614
-5.0	0	198	828	1531	2903	5868	8923	12492	15224	17477
-7.0	0	198	820	1522	2875	5765	8765	12292	15036	17266
-9.0	0	198	814	1512	2837	5633	8560	12030	14785	16983
-11.0	0	198	808	1499	2790	5468	8312	11707	14470	16622
-13.0	0	192	800	1483	2734	5273	8021	11323	14090	16214
-15.0	0	190	791	1465	2669	5047	7696	10882	13649	15767
-17.0	0	188	781	1444	2596	4791	7346	10399	13160	15254
-19.5	0	185	766	1415	2493	4488	6886	9745	12466	14516
-22.5	0	181	744	1374	2378	4105	6260	8894	11433	13522
-25.5	0	177	719	1334	2251	3666	5605	7980	10324	12407
-29.0	0	171	688	1273	2088	3269	4784	6884	8950	10880
-33.0	0	163	648	1202	1921	2826	3928	5620	7319	8943
-37.5	0	153	602	1117	1732	2418	3148	4274	5586	6857
-42.5	0	141	546	1015	1542	2040	2506	3155	3929	4766
-47.5	0	128	486	907	1360	1737	2045	2435	2835	3286
-55.0	0	106	392	733	1088	1355	1534	1732	1917	2073
-65.0	0	76	265	484	724	895	1005	1111	1203	1278
-75.0	0	47	151	255	377	469	529	581	625	666
-85.0	0	16	49	75	102	121	133	146	157	166
-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	173	179	185	190	194	195	200	199	199	198
75.0	698	723	745	761	773	785	796	806	815	827
65.0	1344	1385	1421	1448	1468	1486	1502	1515	1525	1532
55.0	2235	2358	2482	2599	2683	2760	2820	2867	2904	2932
47.5	3701	4142	4538	4852	5106	5330	5522	5686	5819	5920
42.5	5603	6283	6953	7447	7786	8092	8359	8590	8776	8912
37.5	7988	8916	9772	10419	10886	11329	11723	12060	12301	12473
33.0	10323	11433	12460	13156	13634	14069	14460	14786	15047	15249
29.0	12432	13540	14514	15285	15848	16303	16677	16988	17263	17516
25.5	13954	15137	16187	16960	17560	18117	18605	19266	19861	20352
22.5	15132	16348	17486	18422	19402	20468	21440	22657	23740	24607
19.5	16177	17454	18902	20682	22269	24048	25689	27473	29053	30245
17.0	16893	18369	20626	23114	25243	27687	29953	33623	36998	39617
15.0	17469	19317	22154	25157	28008	31186	36026	40751	50255	57041
13.0	18007	20317	23855	27544	31141	36888	45093	56795	70361	86727 *
11.0	18524	21230	25514	29748	36069	45104	58616	79599	103271 *	131346 *
9.0	19204	22515	27244	33295	40636	56345	79060	107032 *	151666 *	194666 *
7.0	19805	23586	28737	36541	49115	68460	101143 *	150858 *	205937 *	298685 *
5.0	20202	24377	29893	39058	55498	83465	126063 *	190574 *	295640 *	409685 *
3.0	20449	24911	31153	42014	60055	93662 *	146767 *	230784 *	359647 *	541070 *
1.0	20557	25110	31909	44204	63345	100349 *	160663 *	259085 *	406286 *	624387 *
0.0	20558	25006	32034	44671	64110	102698 *	165475 *	268548 *	421341 *	626596 *
-1.0	20557	25110	31909	44204	63345	100349 *	160663 *	259085 *	406286 *	624387 *
-3.0	20449	24911	31153	42014	60055	93662 *	146767 *	230784 *	359647 *	541070 *
-5.0	20202	24377	29893	39058	55498	83465	126063 *	190574 *	295640 *	409685 *
-7.0	19805	23586	28737	36541	49115	68460	101143 *	150858 *	205937 *	298685 *
-9.0	19204	22515	27244	33295	40636	56345	79060	107032 *	151666 *	194666 *
-11.0	18524	21230	25514	29748	36069	45104	58616	79599	103271 *	131346 *
-13.0	18007	20317	23855	27544	31141	36888	45093	56795	70361	86727 *
-15.0	17469	19317	22154	25157	28008	31186	36026	40751	50255	57041
-17.0	16893	18369	20626	23114	25243	27687	29953	33623	36998	39617
-19.5	16177	17454	18902	20682	22269	24048	25689	27473	29053	30245
-22.5	15132	16348	17486	18422	19402	20468	21440	22657	23740	24607
-25.5	13954	15137	16187	16960	17560	18117	18605	19266	19861	20352
-29.0	12432	13540	14514	15285	15848	16303	16677	16988	17263	17516
-33.0	10323	11433	12460	13156	13634	14069	14460	14786	15047	15249
-37.5	7988	8916	9772	10419	10886	11329	11723	12060	12301	12473
-42.5	5603	6283	6953	7447	7786	8092	8359	8590	8776	8912
-47.5	3701	4142	4538	4852	5106	5330	5522	5686	5819	5920
-55.0	2235	2358	2482	2599	2683	2760	2820	2867	2904	2932
-65.0	1344	1385	1421	1448	1468	1486	1502	1515	1525	1532
-75.0	698	723	745	761	773	785	796	806	815	827
-85.0	173	179	185	190	194	195	200	199	199	198
-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	199	200	201	200	199	198	199	199	200	195
75.0	824	820	818	820	824	827	815	806	796	785
65.0	1543	1548	1551	1548	1543	1532	1525	1515	1502	1486

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CANDELA TABULATION - (Cont.)

55.0	2952	2935	2926	2935	2952	2932	2904	2867	2820	2760
47.5	6023	6022	6021	6022	6023	5920	5819	5686	5522	5330
42.5	9061	9100	9120	9100	9061	8912	8776	8590	8359	8092
37.5	12577	12638	12632	12638	12577	12473	12301	12060	11723	11329
33.0	15389	15426	15418	15426	15389	15249	15047	14786	14460	14069
29.0	17696	17731	17705	17731	17696	17516	17263	16988	16677	16303
25.5	20707	20806	20758	20806	20707	20352	19861	19266	18605	18117
22.5	25183	25411	25305	25411	25183	24607	23740	22657	21440	20468
19.5	31580	32235	32140	32235	31580	30245	29053	27473	25689	24048
17.0	42749	44795	44861	44795	42749	39617	36998	33623	29953	27687
15.0	61483	64378	64858	64378	61483	57041	50255	40751	36026	31186
13.0	96920 *	103021 *	104875 *	103021 *	96920 *	86727 *	70361	56795	45093	36888
11.0	154142 *	167588 *	173099 *	167588 *	154142 *	131346 *	103271 *	79599	58616	45104
9.0	241702 *	270762 *	281863 *	270762 *	241702 *	194666 *	151666 *	107032 *	79060	56345
7.0	371234 *	419800 *	437304 *	419800 *	371234 *	298685 *	205937 *	150858 *	101143 *	68460
5.0	546837 *	627826 *	639371 *	627826 *	546837 *	409685 *	295640 *	190574 *	126063 *	83465
3.0	689317 *	783592 *	802525 *	783592 *	689317 *	541070 *	359647 *	230784 *	146767 *	93662 *
1.0	783259 *	848129 *	853951 *	848129 *	783259 *	624387 *	406286 *	259085 *	160663 *	100349 *
0.0	798658 *	853294 *	861042 *	853294 *	798658 *	626596 *	421341 *	268548 *	165475 *	102698 *
-1.0	783259 *	848129 *	853951 *	848129 *	783259 *	624387 *	406286 *	259085 *	160663 *	100349 *
-3.0	689317 *	783592 *	802525 *	783592 *	689317 *	541070 *	359647 *	230784 *	146767 *	93662 *
-5.0	546837 *	627826 *	639371 *	627826 *	546837 *	409685 *	295640 *	190574 *	126063 *	83465
-7.0	371234 *	419800 *	437304 *	419800 *	371234 *	298685 *	205937 *	150858 *	101143 *	68460
-9.0	241702 *	270762 *	281863 *	270762 *	241702 *	194666 *	151666 *	107032 *	79060	56345
-11.0	154142 *	167588 *	173099 *	167588 *	154142 *	131346 *	103271 *	79599	58616	45104
-13.0	96920 *	103021 *	104875 *	103021 *	96920 *	86727 *	70361	56795	45093	36888
-15.0	61483	64378	64858	64378	61483	57041	50255	40751	36026	31186
-17.0	42749	44795	44861	44795	42749	39617	36998	33623	29953	27687
-19.5	31580	32235	32140	32235	31580	30245	29053	27473	25689	24048
-22.5	25183	25411	25305	25411	25183	24607	23740	22657	21440	20468
-25.5	20707	20806	20758	20806	20707	20352	19861	19266	18605	18117
-29.0	17696	17731	17705	17731	17696	17516	17263	16988	16677	16303
-33.0	15389	15426	15418	15426	15389	15249	15047	14786	14460	14069
-37.5	12577	12638	12632	12638	12577	12473	12301	12060	11723	11329
-42.5	9061	9100	9120	9100	9061	8912	8776	8590	8359	8092
-47.5	6023	6022	6021	6022	6023	5920	5819	5686	5522	5330
-55.0	2952	2935	2926	2935	2952	2932	2904	2867	2820	2760
-65.0	1543	1548	1551	1548	1543	1532	1525	1515	1502	1486
-75.0	824	820	818	820	824	827	815	806	796	785
-85.0	199	200	201	200	199	198	199	199	200	195
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
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	194	190	185	179	173	166	157	146	133	121
75.0	773	761	745	723	698	666	625	581	529	469
65.0	1468	1448	1421	1385	1344	1278	1203	1111	1005	895
55.0	2683	2599	2482	2358	2235	2073	1917	1732	1534	1355
47.5	5106	4852	4538	4142	3701	3286	2835	2435	2045	1737
42.5	7786	7447	6953	6283	5603	4766	3929	3155	2506	2040
37.5	10886	10419	9772	8916	7988	6857	5586	4274	3148	2418
33.0	13634	13156	12460	11433	10323	8943	7319	5620	3928	2826
29.0	15848	15285	14514	13540	12432	10880	8950	6884	4784	3269
25.5	17560	16960	16187	15137	13954	12407	10324	7980	5605	3666

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CANDELA TABULATION - (Cont.)

22.5	19402	18422	17486	16348	15132	13522	11433	8894	6260	4105
19.5	22269	20682	18902	17454	16177	14516	12466	9745	6886	4488
17.0	25243	23114	20626	18369	16893	15254	13160	10399	7346	4791
15.0	28008	25157	22154	19317	17469	15767	13649	10882	7696	5047
13.0	31141	27544	23855	20317	18007	16214	14090	11323	8021	5273
11.0	36069	29748	25514	21230	18524	16622	14470	11707	8312	5468
9.0	40636	33295	27244	22515	19204	16983	14785	12030	8560	5633
7.0	49115	36541	28737	23586	19805	17266	15036	12292	8765	5765
5.0	55498	39058	29893	24377	20202	17477	15224	12492	8923	5868
3.0	60055	42014	31153	24911	20449	17614	15353	12605	9083	5990
1.0	63345	44204	31909	25110	20557	17701	15446	12630	9085	6009
0.0	64110	44671	32034	25006	20558	17717	15471	12605	9086	6019
-1.0	63345	44204	31909	25110	20557	17701	15446	12630	9085	6009
-3.0	60055	42014	31153	24911	20449	17614	15353	12605	9083	5990
-5.0	55498	39058	29893	24377	20202	17477	15224	12492	8923	5868
-7.0	49115	36541	28737	23586	19805	17266	15036	12292	8765	5765
-9.0	40636	33295	27244	22515	19204	16983	14785	12030	8560	5633
-11.0	36069	29748	25514	21230	18524	16622	14470	11707	8312	5468
-13.0	31141	27544	23855	20317	18007	16214	14090	11323	8021	5273
-15.0	28008	25157	22154	19317	17469	15767	13649	10882	7696	5047
-17.0	25243	23114	20626	18369	16893	15254	13160	10399	7346	4791
-19.5	22269	20682	18902	17454	16177	14516	12466	9745	6886	4488
-22.5	19402	18422	17486	16348	15132	13522	11433	8894	6260	4105
-25.5	17560	16960	16187	15137	13954	12407	10324	7980	5605	3666
-29.0	15848	15285	14514	13540	12432	10880	8950	6884	4784	3269
-33.0	13634	13156	12460	11433	10323	8943	7319	5620	3928	2826
-37.5	10886	10419	9772	8916	7988	6857	5586	4274	3148	2418
-42.5	7786	7447	6953	6283	5603	4766	3929	3155	2506	2040
-47.5	5106	4852	4538	4142	3701	3286	2835	2435	2045	1737
-55.0	2683	2599	2482	2358	2235	2073	1917	1732	1534	1355
-65.0	1468	1448	1421	1385	1344	1278	1203	1111	1005	895
-75.0	773	761	745	723	698	666	625	581	529	469
-85.0	194	190	185	179	173	166	157	146	133	121
-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	102	75	49	16	0
75.0	377	255	151	47	0
65.0	724	484	265	76	0
55.0	1088	733	392	106	0
47.5	1360	907	486	128	0
42.5	1542	1015	546	141	0
37.5	1732	1117	602	153	0
33.0	1921	1202	648	163	0
29.0	2088	1273	688	171	0
25.5	2251	1334	719	177	0
22.5	2378	1374	744	181	0
19.5	2493	1415	766	185	0
17.0	2596	1444	781	188	0
15.0	2669	1465	791	190	0
13.0	2734	1483	800	192	0
11.0	2790	1499	808	198	0
9.0	2837	1512	814	198	0

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

CANDELA TABULATION - (Cont.)

7.0	2875	1522	820	198	0
5.0	2903	1531	828	198	0
3.0	2932	1539	827	198	0
1.0	2929	1540	827	198	0
0.0	2928	1540	827	198	0
-1.0	2929	1540	827	198	0
-3.0	2932	1539	827	198	0
-5.0	2903	1531	828	198	0
-7.0	2875	1522	820	198	0
-9.0	2837	1512	814	198	0
-11.0	2790	1499	808	198	0
-13.0	2734	1483	800	192	0
-15.0	2669	1465	791	190	0
-17.0	2596	1444	781	188	0
-19.5	2493	1415	766	185	0
-22.5	2378	1374	744	181	0
-25.5	2251	1334	719	177	0
-29.0	2088	1273	688	171	0
-33.0	1921	1202	648	163	0
-37.5	1732	1117	602	153	0
-42.5	1542	1015	546	141	0
-47.5	1360	907	486	128	0
-55.0	1088	733	392	106	0
-65.0	724	484	265	76	0
-75.0	377	255	151	47	0
-85.0	102	75	49	16	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 47934.52

Total Field Lumens (one side of beam only) = 27679.99

* 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	0.15	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.28
75	1.55	3.11	3.11	3.09	3.05	3.00	2.94	2.88	2.81	3.40
65	3.61	7.21	7.18	7.12	7.03	6.93	6.81	6.67	6.51	7.91
55	6.82	13.67	13.61	13.47	13.29	13.05	12.76	12.41	12.00	14.37
47.5	10.23	20.47	20.31	19.97	19.54	19.01	18.36	17.60	16.73	19.62
42.5	11.52	22.99	22.73	22.29	21.77	21.12	20.34	19.44	18.44	21.51
37.5	16.56	33.01	32.68	32.16	31.47	30.55	29.42	28.15	26.75	31.27
33	19.23	38.38	38.07	37.54	36.78	35.79	34.58	33.20	31.69	37.27
29	20.19	40.33	40.02	39.43	38.66	37.74	36.65	35.38	33.92	40.08
25.5	20.52	40.99	40.56	39.76	38.73	37.55	36.34	35.08	33.64	39.83
22.5	21.08	42.06	41.41	40.24	38.70	36.88	35.14	33.49	31.77	37.45
19.5	26.29	52.24	50.87	48.91	46.57	43.76	40.96	38.21	35.48	40.95
17	29.32	57.60	54.77	51.47	47.94	43.77	39.99	36.67	33.42	37.66
15	33.34	64.96	61.04	55.71	48.75	42.10	37.20	33.14	29.73	32.92
13	51.35	99.18	91.82	80.09	65.81	53.59	44.45	37.60	32.75	35.69
11	83.55 *	158.81 *	142.55 *	118.66 *	93.52	72.02	55.33	44.10	36.45	38.57
9	136.05 *	253.94 *	219.34 *	175.99 *	133.19 *	97.28	71.25	52.65	40.92	41.87
7	214.70 *	396.81 *	336.16 *	257.78 *	185.66 *	131.42 *	90.88	63.41	46.73	45.49
5	323.53 *	598.39 *	494.21 *	366.53 *	254.28 *	170.58 *	112.96 *	75.82	52.77	48.54
3	434.56 *	805.96 *	664.51 *	486.52 *	324.76 *	208.24 *	134.06 *	86.50	57.57	51.39
1	500.80 *	945.00 *	801.59 *	585.08 *	378.80 *	239.17 *	149.40 *	93.81	61.38	53.98
0	260.16 *	499.75 *	430.40 *	314.84 *	204.40 *	128.05 *	78.83 *	48.84	31.67	27.63
-1	260.16 *	499.75 *	430.40 *	314.84 *	204.40 *	128.05 *	78.83 *	48.84	31.67	27.63
	500.80 *	945.00 *	801.59 *	585.08 *	378.80 *	239.17 *	149.40 *	93.81	61.38	53.98

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

LUMENS TABULATION - (Cont.)

-3	434.56 *	805.96 *	664.51 *	486.52 *	324.76 *	208.24 *	134.06 *	86.50	57.57	51.39
-5	323.53 *	598.39 *	494.21 *	366.53 *	254.28 *	170.58 *	112.96 *	75.82	52.77	48.54
-7	214.70 *	396.81 *	336.16 *	257.78 *	185.66 *	131.42 *	90.88	63.41	46.73	45.49
-9	136.05 *	253.94 *	219.34 *	175.99 *	133.19 *	97.28	71.25	52.65	40.92	41.87
-11	83.55 *	158.81 *	142.55 *	118.66 *	93.52	72.02	55.33	44.10	36.45	38.57
-13	51.35	99.18	91.82	80.09	65.81	53.59	44.45	37.60	32.75	35.69
-15	33.34	64.96	61.04	55.71	48.75	42.10	37.20	33.14	29.73	32.92
-17	29.32	57.60	54.77	51.47	47.94	43.77	39.99	36.67	33.42	37.66
-19.5	26.29	52.24	50.87	48.91	46.57	43.76	40.96	38.21	35.48	40.95
-22.5	21.08	42.06	41.41	40.24	38.70	36.88	35.14	33.49	31.77	37.45
-25.5	20.52	40.99	40.56	39.76	38.73	37.55	36.34	35.08	33.64	39.83
-29	20.19	40.33	40.02	39.43	38.66	37.74	36.65	35.38	33.92	40.08
-33	19.23	38.38	38.07	37.54	36.78	35.79	34.58	33.20	31.69	37.27
-37.5	16.56	33.01	32.68	32.16	31.47	30.55	29.42	28.15	26.75	31.27
-42.5	11.52	22.99	22.73	22.29	21.77	21.12	20.34	19.44	18.44	21.51
-47.5	10.23	20.47	20.31	19.97	19.54	19.01	18.36	17.60	16.73	19.62
-55	6.82	13.67	13.61	13.47	13.29	13.05	12.76	12.41	12.00	14.37
-65	3.61	7.21	7.18	7.12	7.03	6.93	6.81	6.67	6.51	7.91
-75	1.55	3.11	3.11	3.09	3.05	3.00	2.94	2.88	2.81	3.40
-85	0.15	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.28	0.34
-90										
Total	4450.25	8390.3	7214.51	5593.88	4065.96	2943.84	2177.91	1670.67	1346.81	1415.47

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.39	0.37	0.40	0.42	0.42	0.41	0.34	0.40	0.34	0.16
85	3.91	3.70	4.03	4.21	4.22	4.05	3.37	3.82	3.08	1.38
75	9.11	8.66	9.44	9.85	9.85	9.41	7.80	8.81	7.00	3.00
65	16.31	15.28	16.42	16.89	16.68	15.69	12.89	14.51	11.52	4.87
55	21.62	19.46	20.07	19.80	18.72	16.94	13.47	14.84	11.66	4.91

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

LUMENS TABULATION - (Cont.)

47.5										
	23.37	20.59	20.56	19.34	17.28	14.79	11.21	11.93	9.17	3.84
42.5										
	34.04	30.04	29.87	27.59	23.70	19.07	13.61	13.81	10.28	4.27
37.5										
	40.86	36.31	36.37	33.72	28.70	22.27	14.92	14.30	10.22	4.18
33										
	44.31	39.84	40.35	37.69	32.20	24.75	15.94	14.44	9.86	3.97
29										
	44.32	40.22	41.19	38.89	33.43	25.77	16.32	14.10	9.25	3.65
25.5										
	41.69	37.92	39.10	37.35	32.43	25.14	15.86	13.29	8.37	3.26
22.5										
	44.91	40.76	42.18	40.68	35.70	27.81	17.55	14.43	8.74	3.35
19.5										
	40.17	35.94	37.22	36.15	32.01	25.06	15.82	12.83	7.56	2.87
17										
	34.32	30.07	30.98	30.19	26.91	21.18	13.39	10.79	6.22	2.33
15										
	36.53	31.35	31.96	31.18	27.95	22.12	14.02	11.23	6.35	2.36
13										
	38.78	32.59	32.87	32.06	28.87	22.96	14.57	11.62	6.47	2.39
11										
	41.16	34.00	33.80	32.82	29.65	23.68	15.06	11.95	6.57	2.41
9										
	43.54	35.52	34.71	33.45	30.30	24.29	15.46	12.22	6.65	2.43
7										
	45.46	36.72	35.42	33.94	30.80	24.77	15.78	12.44	6.72	2.45
5										
	47.06	37.54	35.89	34.29	31.15	25.14	16.08	12.64	6.77	2.46
3										
	48.23	37.99	36.16	34.52	31.36	25.31	16.24	12.76	6.80	2.46
1										
	24.32	19.04	18.13	17.32	15.71	12.66	8.13	6.39	3.40	1.23
0										
	24.32	19.04	18.13	17.32	15.71	12.66	8.13	6.39	3.40	1.23
-1										
	48.23	37.99	36.16	34.52	31.36	25.31	16.24	12.76	6.80	2.46
-3										
	47.06	37.54	35.89	34.29	31.15	25.14	16.08	12.64	6.77	2.46
-5										
	45.46	36.72	35.42	33.94	30.80	24.77	15.78	12.44	6.72	2.45
-7										
	43.54	35.52	34.71	33.45	30.30	24.29	15.46	12.22	6.65	2.43
-9										
	41.16	34.00	33.80	32.82	29.65	23.68	15.06	11.95	6.57	2.41
-11										
	38.78	32.59	32.87	32.06	28.87	22.96	14.57	11.62	6.47	2.39
-13										
	36.53	31.35	31.96	31.18	27.95	22.12	14.02	11.23	6.35	2.36
-15										
	34.32	30.07	30.98	30.19	26.91	21.18	13.39	10.79	6.22	2.33
-17										
	40.17	35.94	37.22	36.15	32.01	25.06	15.82	12.83	7.56	2.87
-19.5										
	44.91	40.76	42.18	40.68	35.70	27.81	17.55	14.43	8.74	3.35

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	41.69	37.92	39.10	37.35	32.43	25.14	15.86	13.29	8.37	3.26
-25.5	44.32	40.22	41.19	38.89	33.43	25.77	16.32	14.10	9.25	3.65
-29	44.31	39.84	40.35	37.69	32.20	24.75	15.94	14.44	9.86	3.97
-33	40.86	36.31	36.37	33.72	28.70	22.27	14.92	14.30	10.22	4.18
-37.5	34.04	30.04	29.87	27.59	23.70	19.07	13.61	13.81	10.28	4.27
-42.5	23.37	20.59	20.56	19.34	17.28	14.79	11.21	11.93	9.17	3.84
-47.5	21.62	19.46	20.07	19.80	18.72	16.94	13.47	14.84	11.66	4.91
-55	16.31	15.28	16.42	16.89	16.68	15.69	12.89	14.51	11.52	4.87
-65	9.11	8.66	9.44	9.85	9.85	9.41	7.80	8.81	7.00	3.00
-75	3.91	3.70	4.03	4.21	4.22	4.05	3.37	3.82	3.08	1.38
-85	0.39	0.37	0.40	0.42	0.42	0.41	0.34	0.40	0.34	0.16
-90										
Total	1448.87	1247.83	1254.29	1204.67	1076.11	866.50	575.67	507.13	325.97	128.46

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.04	0.00	6.55
85			
	0.35	0.01	65.07
75			
	0.71	0.02	150.63
65			
	1.11	0.03	267.67
55			
	1.10	0.03	344.46
47.5			
	0.86	0.02	355.09
42.5			
	0.95	0.02	499.27
37.5			
	0.93	0.02	585.32
33			
	0.88	0.02	626.65
29			
	0.81	0.02	630.98
25.5			
	0.72	0.02	613.36
22.5			
	0.74	0.02	701.12
19.5			
	0.63	0.02	678.89
17			
	0.52	0.01	645.82

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

LUMENS TABULATION - (Cont.)

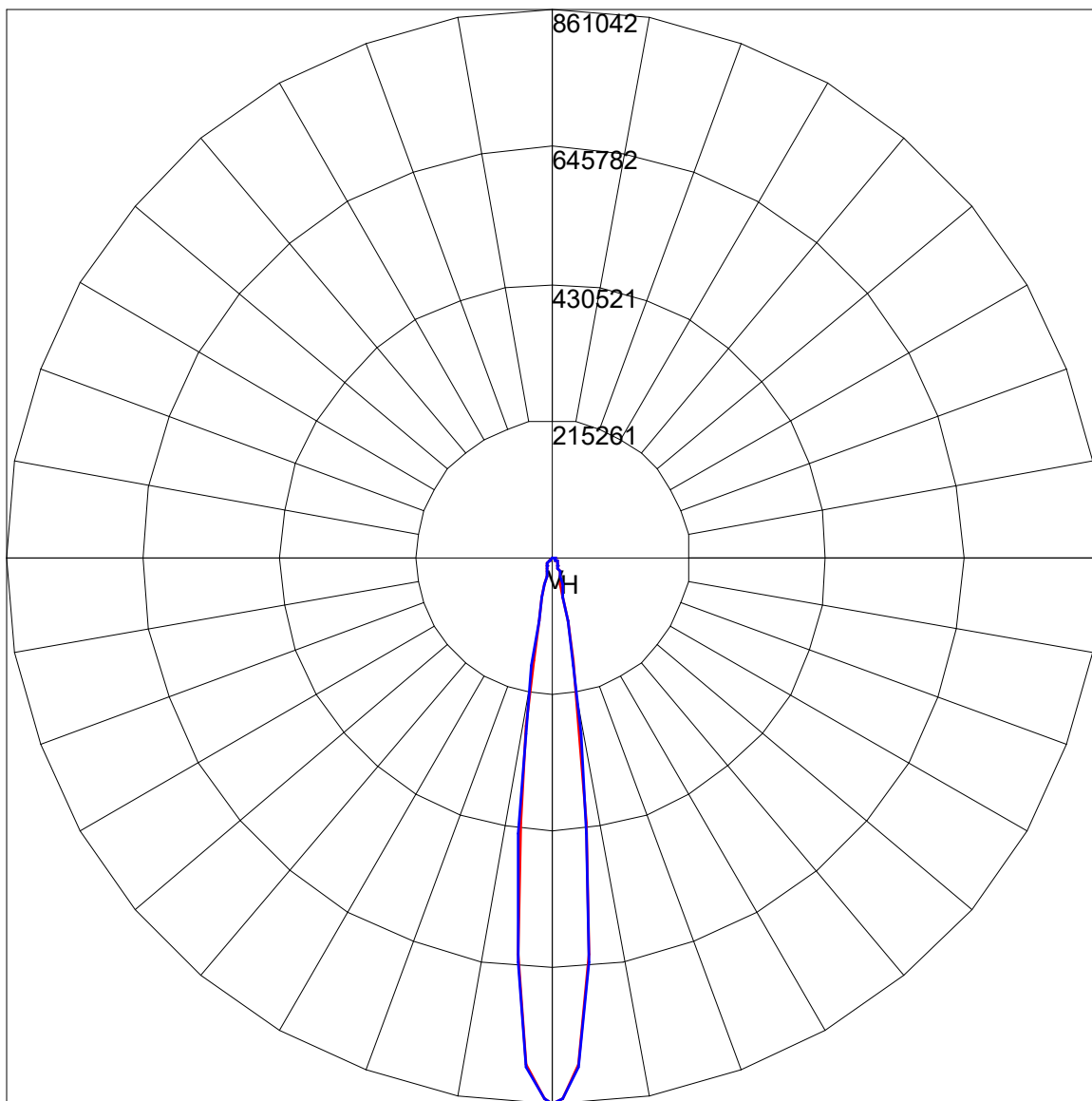
15	0.52	0.01	807.91
13	0.53	0.01	1067.26
11	0.53	0.01	1454.15
9	0.54	0.01	2008.16
7	0.54	0.01	2742.66
5	0.54	0.01	3503.66
3	0.54	0.01	4061.4
1	0.27	0.01	2151.19
0	0.27	0.01	2151.19
-1	0.54	0.01	4061.4
-3	0.54	0.01	3503.66
-5	0.54	0.01	2742.66
-7	0.54	0.01	2008.16
-9	0.53	0.01	1454.15
-11	0.53	0.01	1067.26
-13	0.52	0.01	807.91
-15	0.52	0.01	645.82
-17	0.63	0.02	678.89
-19.5	0.74	0.02	701.12
-22.5	0.72	0.02	613.36
-25.5	0.81	0.02	630.98
-29	0.88	0.02	626.65
-33	0.93	0.02	585.32
-37.5	0.95	0.02	499.27
-42.5	0.86	0.02	355.09
-47.5	1.10	0.03	344.46
-55	1.11	0.03	267.67
-65	0.71	0.02	150.63

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

LUMENS TABULATION - (Cont.)

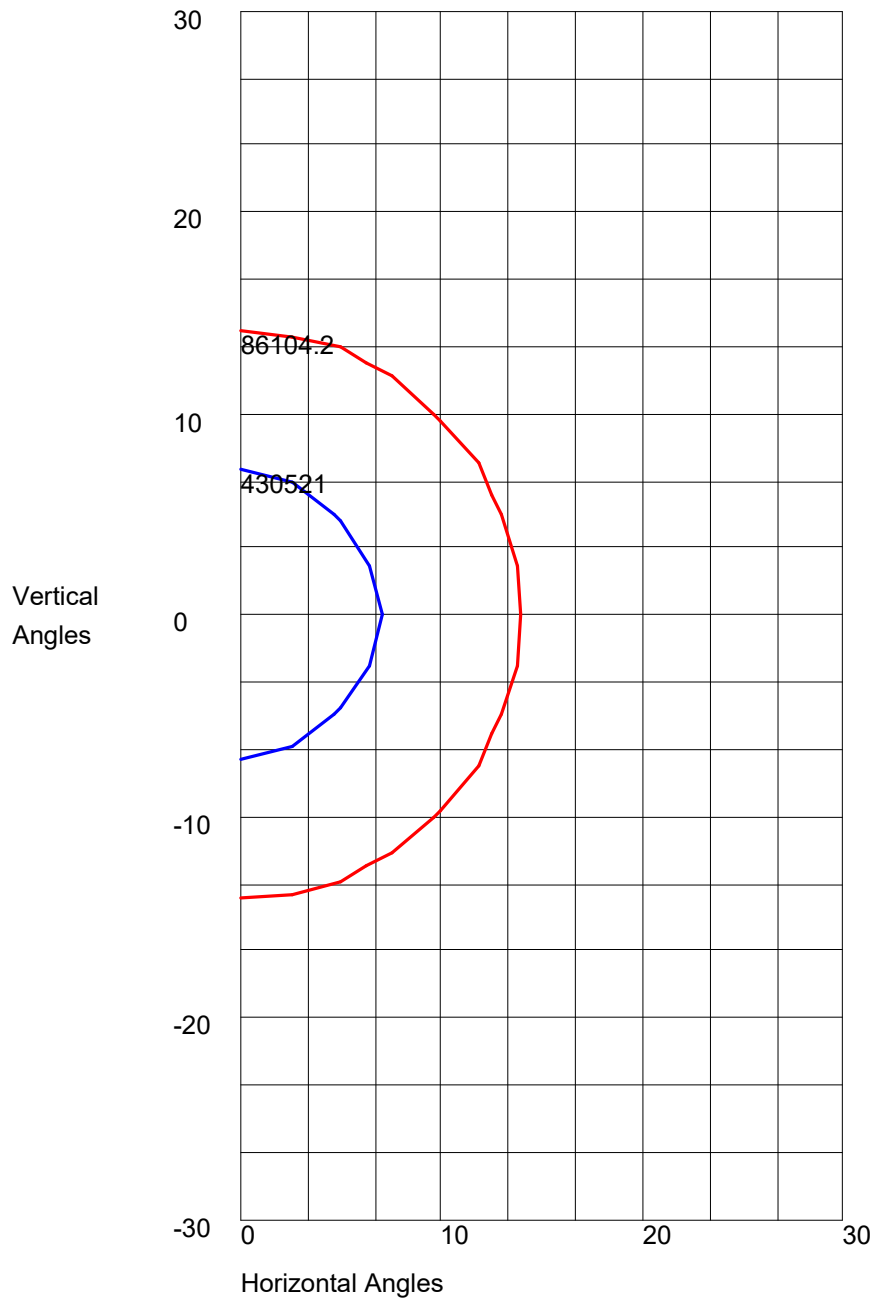
-75	0.35	0.01	65.07
-85	0.04	0.00	6.55
-90			
Total	28.75	0.73	47934.56

AXIAL CANDELA DISPLAY



Maximum Candela = 861042 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 861042 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 430521
10% Maximum Candela = 86104.2