



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13023

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/30/22

[TEST DATE] 10/25/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-100L-MF-50

[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	4 H x 4 V
Maximum Candela	261016
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	32.4
Vertical Beam Angle (50%)	32.5
Horizontal Field Angle (10%)	59.8
Vertical Field Angle (10%)	59.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	50286
Beam Efficiency	N.A.
Field Lumens	84257
Field Efficiency	N.A.
Spill Lumens	20410
Luminaire Lumens	104666
Total Efficiency	N.A.
Total Luminaire Watts	765.3
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	150	85	151
75	625	75	613
65	1379	65	1378
55	3063	55	3028
47.5	4879	47.5	4888
42.5	7600	42.5	7625
37.5	12721	37.5	12623
33	19365	33	19121
29	28150	29	28092
25.5	42322	25.5	42345
22.5	60789	22.5	60257
19.5	87012	19.5	87321
17	118429	17	120089
15	149290	15	150380
13	179001	13	179798
11	203854	11	204505
9	224389	9	224750
7	240971	7	240850
5	253793	5	253191
3	259578	3	259457
1	260919	1	260919
0	260849	0	260849
-1	260919	-1	260919
-3	259578	-3	259457
-5	253793	-5	253191
-7	240971	-7	240850
-9	224389	-9	224750
-11	203854	-11	204505
-13	179001	-13	179798
-15	149290	-15	150380
-17	118429	-17	120089
-19.5	87012	-19.5	87321
-22.5	60789	-22.5	60257
-25.5	42322	-25.5	42345
-29	28150	-29	28092
-33	19365	-33	19121
-37.5	12721	-37.5	12623
-42.5	7600	-42.5	7625
-47.5	4879	-47.5	4888
-55	3063	-55	3028
-65	1379	-65	1378
-75	625	-75	613
-85	150	-85	151
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 261016

Beam Edge = 130508 Cd (50% of Max.)

Field Edge = 26101.6 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	12	36	56	76	92	102	112	119	125
75.0	0	36	112	196	289	360	403	443	479	516
65.0	0	59	200	375	564	689	781	884	982	1068
55.0	0	82	294	577	867	1168	1393	1643	1883	2102
47.5	0	99	363	706	1168	1642	2047	2513	2868	3288
42.5	0	109	408	795	1393	2059	2570	3182	3808	4257
37.5	0	118	450	892	1636	2475	3178	4001	4733	5595
33.0	0	125	483	987	1881	2858	3802	4746	5918	7499
29.0	0	131	514	1068	2086	3274	4267	5593	7502	9915
25.5	0	135	537	1139	2256	3612	4740	6536	9188	12297
22.5	0	139	555	1187	2391	3842	5150	7474	10755	14628
19.5	0	141	571	1236	2531	4040	5613	8489	12349	16941
17.0	0	144	583	1272	2649	4200	5964	9291	13748	18887
15.0	0	145	592	1297	2733	4345	6305	9871	14815	20406
13.0	0	146	600	1319	2809	4474	6635	10556	15759	22029
11.0	0	150	606	1338	2876	4586	6920	11157	16706	23407
9.0	0	150	612	1353	2934	4679	7160	11654	17560	24531
7.0	0	150	617	1364	2981	4755	7353	12047	18239	25727
5.0	0	150	624	1373	3017	4812	7497	12337	18743	26866 *
3.0	0	150	624	1381	3054	4877	7635	12547	19079	27630 *
1.0	0	150	625	1380	3060	4878	7612	12702	19312	28072 *
0.0	0	150	625	1379	3063	4879	7600	12721	19365	28150 *
-1.0	0	150	625	1380	3060	4878	7612	12702	19312	28072 *
-3.0	0	150	624	1381	3054	4877	7635	12547	19079	27630 *
-5.0	0	150	624	1373	3017	4812	7497	12337	18743	26866 *
-7.0	0	150	617	1364	2981	4755	7353	12047	18239	25727
-9.0	0	150	612	1353	2934	4679	7160	11654	17560	24531
-11.0	0	150	606	1338	2876	4586	6920	11157	16706	23407
-13.0	0	146	600	1319	2809	4474	6635	10556	15759	22029
-15.0	0	145	592	1297	2733	4345	6305	9871	14815	20406
-17.0	0	144	583	1272	2649	4200	5964	9291	13748	18887
-19.5	0	141	571	1236	2531	4040	5613	8489	12349	16941
-22.5	0	139	555	1187	2391	3842	5150	7474	10755	14628
-25.5	0	135	537	1139	2256	3612	4740	6536	9188	12297
-29.0	0	131	514	1068	2086	3274	4267	5593	7502	9915
-33.0	0	125	483	987	1881	2858	3802	4746	5918	7499
-37.5	0	118	450	892	1636	2475	3178	4001	4733	5595
-42.5	0	109	408	795	1393	2059	2570	3182	3808	4257
-47.5	0	99	363	706	1168	1642	2047	2513	2868	3288
-55.0	0	82	294	577	867	1168	1393	1643	1883	2102
-65.0	0	59	200	375	564	689	781	884	982	1068
-75.0	0	36	112	196	289	360	403	443	479	516
-85.0	0	12	36	56	76	92	102	112	119	125
-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	129	133	137	140	143	145	149	150	150	151
75.0	546	565	577	585	590	596	600	604	607	612
65.0	1139	1185	1234	1271	1297	1320	1338	1353	1364	1372
55.0	2268	2386	2500	2610	2692	2767	2838	2899	2949	2988
47.5	3646	3886	4105	4263	4392	4506	4607	4696	4765	4814
42.5	4726	5154	5630	5970	6299	6621	6899	7137	7334	7486
37.5	6547	7466	8462	9250	9829	10523	11127	11639	12066	12397
33.0	9206	10801	12438	13808	14840	15771	16685	17518	18212	18733
29.0	12374	14649	16969	18930	20371	21866	23237	24418	25658	26798 *
25.5	15516	18507	21703	24366	27062 *	29822 *	32241 *	35322 *	38082 *	40136 *
22.5	18486	22272	26826 *	31541 *	36076 *	40742 *	45024 *	49937 *	54036 *	57075 *
19.5	21593	26809 *	33878 *	41607 *	48206 *	55158 *	62003 *	69639 *	75776 *	80353 *
17.0	24374	31775 *	41806 *	51657 *	59937 *	70310 *	80005 *	91512 *	101536 *	108999 *
15.0	27280 *	36395 *	48560 *	60163 *	71785 *	84098 *	99039 *	112457 *	126723 *	137364 *
13.0	30214 *	41160 *	55540 *	70400 *	83967 *	101731 *	119613 *	137585 *	153485 *	165664 *
11.0	32639 *	45504 *	62179 *	79613 *	98517 *	119354 *	141902 *	161697 *	179173 *	191581 *
9.0	35548 *	50075 *	69261 *	90818 *	111827 *	137819 *	161936 *	183582 *	200082 *	212592 *
7.0	38075 *	53786 *	74873 *	100571 *	126148 *	153502 *	179168 *	199962 *	218106 *	228704 *
5.0	40093 *	56846 *	79218 *	107853 *	137115 *	165598 *	191629 *	212709 *	228283 *	241364 *
3.0	41457 *	59126 *	83800 *	114037 *	144680 *	173979 *	199544 *	220726 *	237233 *	248450 *
1.0	42198 *	60615 *	86506 *	117690 *	148886 *	177971 *	203634 *	224640 *	241010 *	253802 *
0.0	42322 *	60789 *	87012 *	118429 *	149290 *	179001 *	203854 *	224389 *	240971 *	253793 *
-1.0	42198 *	60615 *	86506 *	117690 *	148886 *	177971 *	203634 *	224640 *	241010 *	253802 *
-3.0	41457 *	59126 *	83800 *	114037 *	144680 *	173979 *	199544 *	220726 *	237233 *	248450 *
-5.0	40093 *	56846 *	79218 *	107853 *	137115 *	165598 *	191629 *	212709 *	228283 *	241364 *
-7.0	38075 *	53786 *	74873 *	100571 *	126148 *	153502 *	179168 *	199962 *	218106 *	228704 *
-9.0	35548 *	50075 *	69261 *	90818 *	111827 *	137819 *	161936 *	183582 *	200082 *	212592 *
-11.0	32639 *	45504 *	62179 *	79613 *	98517 *	119354 *	141902 *	161697 *	179173 *	191581 *
-13.0	30214 *	41160 *	55540 *	70400 *	83967 *	101731 *	119613 *	137585 *	153485 *	165664 *
-15.0	27280 *	36395 *	48560 *	60163 *	71785 *	84098 *	99039 *	112457 *	126723 *	137364 *
-17.0	24374	31775 *	41806 *	51657 *	59937 *	70310 *	80005 *	91512 *	101536 *	108999 *
-19.5	21593	26809 *	33878 *	41607 *	48206 *	55158 *	62003 *	69639 *	75776 *	80353 *
-22.5	18486	22272	26826 *	31541 *	36076 *	40742 *	45024 *	49937 *	54036 *	57075 *
-25.5	15516	18507	21703	24366	27062 *	29822 *	32241 *	35322 *	38082 *	40136 *
-29.0	12374	14649	16969	18930	20371	21866	23237	24418	25658	26798 *
-33.0	9206	10801	12438	13808	14840	15771	16685	17518	18212	18733
-37.5	6547	7466	8462	9250	9829	10523	11127	11639	12066	12397
-42.5	4726	5154	5630	5970	6299	6621	6899	7137	7334	7486
-47.5	3646	3886	4105	4263	4392	4506	4607	4696	4765	4814
-55.0	2268	2386	2500	2610	2692	2767	2838	2899	2949	2988
-65.0	1139	1185	1234	1271	1297	1320	1338	1353	1364	1372
-75.0	546	565	577	585	590	596	600	604	607	612
-85.0	129	133	137	140	143	145	149	150	150	151
-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	151	151	151	151	151	151	150	150	149	145
75.0	612	613	613	613	612	612	607	604	600	596
65.0	1381	1379	1378	1379	1381	1372	1364	1353	1338	1320

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CANDELA TABULATION - (Cont.)

55.0	3024	3027	3028	3027	3024	2988	2949	2899	2838	2767
47.5	4873	4883	4888	4883	4873	4814	4765	4696	4607	4506
42.5	7645	7632	7625	7632	7645	7486	7334	7137	6899	6621
37.5	12626	12663	12623	12663	12626	12397	12066	11639	11127	10523
33.0	19076	19154	19121	19154	19076	18733	18212	17518	16685	15771
29.0	27570 *	28009 *	28092 *	28009 *	27570 *	26798 *	25658	24418	23237	21866
25.5	41464 *	42198 *	42345 *	42198 *	41464 *	40136 *	38082 *	35322 *	32241 *	29822 *
22.5	58987 *	60161 *	60257 *	60161 *	58987 *	57075 *	54036 *	49937 *	45024 *	40742 *
19.5	84407 *	86813 *	87321 *	86813 *	84407 *	80353 *	75776 *	69639 *	62003 *	55158 *
17.0	115176 *	119108 *	120089 *	119108 *	115176 *	108999 *	101536 *	91512 *	80005 *	70310 *
15.0	145101 *	150258 *	150380 *	150258 *	145101 *	137364 *	126723 *	112457 *	99039 *	84098 *
13.0	174278 *	179170 *	179798 *	179170 *	174278 *	165664 *	153485 *	137585 *	119613 *	101731 *
11.0	199798 *	203859 *	204505 *	203859 *	199798 *	191581 *	179173 *	161697 *	141902 *	119354 *
9.0	220658 *	224336 *	224750 *	224336 *	220658 *	212592 *	200082 *	183582 *	161936 *	137819 *
7.0	236685 *	240768 *	240850 *	240768 *	236685 *	228704 *	218106 *	199962 *	179168 *	153502 *
5.0	248547 *	253466 *	253191 *	253466 *	248547 *	241364 *	228283 *	212709 *	191629 *	165598 *
3.0	256149 *	259050 *	259457 *	259050 *	256149 *	248450 *	237233 *	220726 *	199544 *	173979 *
1.0	259048 *	261016 *	260919 *	261016 *	259048 *	253802 *	241010 *	224640 *	203634 *	177971 *
0.0	259578 *	260919 *	260849 *	260919 *	259578 *	253793 *	240971 *	224389 *	203854 *	179001 *
-1.0	259048 *	261016 *	260919 *	261016 *	259048 *	253802 *	241010 *	224640 *	203634 *	177971 *
-3.0	256149 *	259050 *	259457 *	259050 *	256149 *	248450 *	237233 *	220726 *	199544 *	173979 *
-5.0	248547 *	253466 *	253191 *	253466 *	248547 *	241364 *	228283 *	212709 *	191629 *	165598 *
-7.0	236685 *	240768 *	240850 *	240768 *	236685 *	228704 *	218106 *	199962 *	179168 *	153502 *
-9.0	220658 *	224336 *	224750 *	224336 *	220658 *	212592 *	200082 *	183582 *	161936 *	137819 *
-11.0	199798 *	203859 *	204505 *	203859 *	199798 *	191581 *	179173 *	161697 *	141902 *	119354 *
-13.0	174278 *	179170 *	179798 *	179170 *	174278 *	165664 *	153485 *	137585 *	119613 *	101731 *
-15.0	145101 *	150258 *	150380 *	150258 *	145101 *	137364 *	126723 *	112457 *	99039 *	84098 *
-17.0	115176 *	119108 *	120089 *	119108 *	115176 *	108999 *	101536 *	91512 *	80005 *	70310 *
-19.5	84407 *	86813 *	87321 *	86813 *	84407 *	80353 *	75776 *	69639 *	62003 *	55158 *
-22.5	58987 *	60161 *	60257 *	60161 *	58987 *	57075 *	54036 *	49937 *	45024 *	40742 *
-25.5	41464 *	42198 *	42345 *	42198 *	41464 *	40136 *	38082 *	35322 *	32241 *	29822 *
-29.0	27570 *	28009 *	28092 *	28009 *	27570 *	26798 *	25658	24418	23237	21866
-33.0	19076	19154	19121	19154	19076	18733	18212	17518	16685	15771
-37.5	12626	12663	12623	12663	12626	12397	12066	11639	11127	10523
-42.5	7645	7632	7625	7632	7645	7486	7334	7137	6899	6621
-47.5	4873	4883	4888	4883	4873	4814	4765	4696	4607	4506
-55.0	3024	3027	3028	3027	3024	2988	2949	2899	2838	2767
-65.0	1381	1379	1378	1379	1381	1372	1364	1353	1338	1320
-75.0	612	613	613	613	612	612	607	604	600	596
-85.0	151	151	151	151	151	151	150	150	149	145
-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	143	140	137	133	129	125	119	112	102	92
75.0	590	585	577	565	546	516	479	443	403	360
65.0	1297	1271	1234	1185	1139	1068	982	884	781	689
55.0	2692	2610	2500	2386	2268	2102	1883	1643	1393	1168
47.5	4392	4263	4105	3886	3646	3288	2868	2513	2047	1642
42.5	6299	5970	5630	5154	4726	4257	3808	3182	2570	2059
37.5	9829	9250	8462	7466	6547	5595	4733	4001	3178	2475
33.0	14840	13808	12438	10801	9206	7499	5918	4746	3802	2858
29.0	20371	18930	16969	14649	12374	9915	7502	5593	4267	3274
25.5	27062 *	24366	21703	18507	15516	12297	9188	6536	4740	3612

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	36076 *	31541 *	26826 *	22272	18486	14628	10755	7474	5150	3842
19.5	48206 *	41607 *	33878 *	26809 *	21593	16941	12349	8489	5613	4040
17.0	59937 *	51657 *	41806 *	31775 *	24374	18887	13748	9291	5964	4200
15.0	71785 *	60163 *	48560 *	36395 *	27280 *	20406	14815	9871	6305	4345
13.0	83967 *	70400 *	55540 *	41160 *	30214 *	22029	15759	10556	6635	4474
11.0	98517 *	79613 *	62179 *	45504 *	32639 *	23407	16706	11157	6920	4586
9.0	111827 *	90818 *	69261 *	50075 *	35548 *	24531	17560	11654	7160	4679
7.0	126148 *	100571 *	74873 *	53786 *	38075 *	25727	18239	12047	7353	4755
5.0	137115 *	107853 *	79218 *	56846 *	40093 *	26866 *	18743	12337	7497	4812
3.0	144680 *	114037 *	83800 *	59126 *	41457 *	27630 *	19079	12547	7635	4877
1.0	148886 *	117690 *	86506 *	60615 *	42198 *	28072 *	19312	12702	7612	4878
0.0	149290 *	118429 *	87012 *	60789 *	42322 *	28150 *	19365	12721	7600	4879
-1.0	148886 *	117690 *	86506 *	60615 *	42198 *	28072 *	19312	12702	7612	4878
-3.0	144680 *	114037 *	83800 *	59126 *	41457 *	27630 *	19079	12547	7635	4877
-5.0	137115 *	107853 *	79218 *	56846 *	40093 *	26866 *	18743	12337	7497	4812
-7.0	126148 *	100571 *	74873 *	53786 *	38075 *	25727	18239	12047	7353	4755
-9.0	111827 *	90818 *	69261 *	50075 *	35548 *	24531	17560	11654	7160	4679
-11.0	98517 *	79613 *	62179 *	45504 *	32639 *	23407	16706	11157	6920	4586
-13.0	83967 *	70400 *	55540 *	41160 *	30214 *	22029	15759	10556	6635	4474
-15.0	71785 *	60163 *	48560 *	36395 *	27280 *	20406	14815	9871	6305	4345
-17.0	59937 *	51657 *	41806 *	31775 *	24374	18887	13748	9291	5964	4200
-19.5	48206 *	41607 *	33878 *	26809 *	21593	16941	12349	8489	5613	4040
-22.5	36076 *	31541 *	26826 *	22272	18486	14628	10755	7474	5150	3842
-25.5	27062 *	24366	21703	18507	15516	12297	9188	6536	4740	3612
-29.0	20371	18930	16969	14649	12374	9915	7502	5593	4267	3274
-33.0	14840	13808	12438	10801	9206	7499	5918	4746	3802	2858
-37.5	9829	9250	8462	7466	6547	5595	4733	4001	3178	2475
-42.5	6299	5970	5630	5154	4726	4257	3808	3182	2570	2059
-47.5	4392	4263	4105	3886	3646	3288	2868	2513	2047	1642
-55.0	2692	2610	2500	2386	2268	2102	1883	1643	1393	1168
-65.0	1297	1271	1234	1185	1139	1068	982	884	781	689
-75.0	590	585	577	565	546	516	479	443	403	360
-85.0	143	140	137	133	129	125	119	112	102	92
-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	76	56	36	12	0
75.0	289	196	112	36	0
65.0	564	375	200	59	0
55.0	867	577	294	82	0
47.5	1168	706	363	99	0
42.5	1393	795	408	109	0
37.5	1636	892	450	118	0
33.0	1881	987	483	125	0
29.0	2086	1068	514	131	0
25.5	2256	1139	537	135	0
22.5	2391	1187	555	139	0
19.5	2531	1236	571	141	0
17.0	2649	1272	583	144	0
15.0	2733	1297	592	145	0
13.0	2809	1319	600	146	0
11.0	2876	1338	606	150	0
9.0	2934	1353	612	150	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2981	1364	617	150	0
5.0	3017	1373	624	150	0
3.0	3054	1381	624	150	0
1.0	3060	1380	625	150	0
0.0	3063	1379	625	150	0
-1.0	3060	1380	625	150	0
-3.0	3054	1381	624	150	0
-5.0	3017	1373	624	150	0
-7.0	2981	1364	617	150	0
-9.0	2934	1353	612	150	0
-11.0	2876	1338	606	150	0
-13.0	2809	1319	600	146	0
-15.0	2733	1297	592	145	0
-17.0	2649	1272	583	144	0
-19.5	2531	1236	571	141	0
-22.5	2391	1187	555	139	0
-25.5	2256	1139	537	135	0
-29.0	2086	1068	514	131	0
-33.0	1881	987	483	125	0
-37.5	1636	892	450	118	0
-42.5	1393	795	408	109	0
-47.5	1168	706	363	99	0
-55.0	867	577	294	82	0
-65.0	564	375	200	59	0
-75.0	289	196	112	36	0
-85.0	76	56	36	12	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 52333.19

Total Field Lumens (one side of beam only) = 42128.35

* 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	0.11	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.21	0.21
75	1.16	2.32	2.32	2.30	2.28	2.25	2.22	2.18	2.13	2.60
65	3.03	6.07	6.04	5.99	5.92	5.84	5.74	5.62	5.48	6.63
55	6.71	13.41	13.32	13.14	12.92	12.64	12.31	11.93	11.52	13.77
47.5	9.04	18.04	17.89	17.63	17.32	16.92	16.44	15.91	15.32	18.28
42.5	9.53	19.05	18.85	18.48	18.05	17.50	16.86	16.12	15.32	18.05
37.5	15.44	30.87	30.50	29.75	28.79	27.60	26.20	24.58	22.95	26.50
33	21.78	43.51	42.96	41.86	40.34	38.45	36.27	33.89	31.44	35.76
29	28.75	57.11	56.02	54.17	51.76	49.11	46.22	43.06	39.79	44.94
25.5	37.49 *	74.18 *	72.30 *	69.27 *	65.18 *	60.48 *	55.88 *	51.27	46.49	51.87
22.5	46.82 *	92.61 *	90.09 *	86.03 *	80.26 *	73.13 *	66.07 *	59.27 *	52.28 *	56.64 *
19.5	67.29 *	132.59 *	128.00 *	121.43 *	112.84 *	101.96 *	90.69 *	79.88 *	69.14 *	72.60 *
17	78.69 *	154.30 *	147.73 *	138.84 *	127.62 *	113.67 *	99.62 *	86.31 *	73.72 *	76.36 *
15	82.22 *	161.23 *	153.95 *	143.78 *	130.38 *	114.89 *	99.35 *	84.57 *	71.31 *	73.11 *
13	100.46 *	197.51 *	189.12 *	176.68 *	159.94 *	140.60 *	120.51 *	100.96 *	83.83 *	84.85 *
11	116.87 *	230.48 *	222.22 *	208.99 *	190.62 *	168.22 *	143.79 *	119.28 *	97.36 *	96.81 *
9	130.59 *	258.34 *	250.57 *	237.33 *	218.55 *	194.72 *	167.15 *	138.18 *	111.49 *	109.15 *
7	141.75 *	280.81 *	273.06 *	260.37 *	241.83 *	217.38 *	188.43 *	156.44 *	125.72 *	121.32 *
5	150.52 *	298.17 *	290.28 *	277.63 *	259.12 *	235.02 *	205.55 *	172.12 *	138.11 *	131.08 *
3	156.13 *	309.66 *	302.19 *	289.40 *	271.16 *	247.36 *	217.72 *	183.65 *	147.48 *	139.18 *
1	158.46 *	315.15 *	309.16 *	297.02 *	278.60 *	254.54 *	224.99 *	190.78 *	153.81 *	145.37 *
0	79.48 *	158.38 *	155.91 *	149.89 *	140.41 *	128.47 *	113.88 *	96.82 *	78.22 *	74.06 *
-1	79.48 *	158.38 *	155.91 *	149.89 *	140.41 *	128.47 *	113.88 *	96.82 *	78.22 *	74.06 *
	158.46 *	315.15 *	309.16 *	297.02 *	278.60 *	254.54 *	224.99 *	190.78 *	153.81 *	145.37 *

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

LUMENS TABULATION - (Cont.)

-3	156.13 *	309.66 *	302.19 *	289.40 *	271.16 *	247.36 *	217.72 *	183.65 *	147.48 *	139.18 *
-5	150.52 *	298.17 *	290.28 *	277.63 *	259.12 *	235.02 *	205.55 *	172.12 *	138.11 *	131.08 *
-7	141.75 *	280.81 *	273.06 *	260.37 *	241.83 *	217.38 *	188.43 *	156.44 *	125.72 *	121.32 *
-9	130.59 *	258.34 *	250.57 *	237.33 *	218.55 *	194.72 *	167.15 *	138.18 *	111.49 *	109.15 *
-11	116.87 *	230.48 *	222.22 *	208.99 *	190.62 *	168.22 *	143.79 *	119.28 *	97.36 *	96.81 *
-13	100.46 *	197.51 *	189.12 *	176.68 *	159.94 *	140.60 *	120.51 *	100.96 *	83.83 *	84.85 *
-15	82.22 *	161.23 *	153.95 *	143.78 *	130.38 *	114.89 *	99.35 *	84.57 *	71.31 *	73.11 *
-17	78.69 *	154.30 *	147.73 *	138.84 *	127.62 *	113.67 *	99.62 *	86.31 *	73.72 *	76.36 *
-19.5	67.29 *	132.59 *	128.00 *	121.43 *	112.84 *	101.96 *	90.69 *	79.88 *	69.14 *	72.60 *
-22.5	46.82 *	92.61 *	90.09 *	86.03 *	80.26 *	73.13 *	66.07 *	59.27 *	52.28 *	56.64 *
-25.5	37.49 *	74.18 *	72.30 *	69.27 *	65.18 *	60.48 *	55.88 *	51.27	46.49	51.87
-29	28.75	57.11	56.02	54.17	51.76	49.11	46.22	43.06	39.79	44.94
-33	21.78	43.51	42.96	41.86	40.34	38.45	36.27	33.89	31.44	35.76
-37.5	15.44	30.87	30.50	29.75	28.79	27.60	26.20	24.58	22.95	26.50
-42.5	9.53	19.05	18.85	18.48	18.05	17.50	16.86	16.12	15.32	18.05
-47.5	9.04	18.04	17.89	17.63	17.32	16.92	16.44	15.91	15.32	18.28
-55	6.71	13.41	13.32	13.14	12.92	12.64	12.31	11.93	11.52	13.77
-65	3.03	6.07	6.04	5.99	5.92	5.84	5.74	5.62	5.48	6.63
-75	1.16	2.32	2.32	2.30	2.28	2.25	2.22	2.18	2.13	2.60
-85	0.11	0.23	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.25
-90										
Total	2884.62	5708.03	5545.42	5280.41	4908.2	4441.99	3912.22	3346.04	2786.26	2798.38

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.29	0.27	0.30	0.32	0.32	0.31	0.26	0.30	0.25	0.12
85	3.01	2.87	3.12	3.23	3.23	3.09	2.58	2.92	2.35	1.04
75	7.59	7.17	7.74	7.95	7.80	7.32	6.01	6.79	5.42	2.30
65	15.58	14.56	15.58	15.75	15.09	13.71	10.85	11.75	9.06	3.76
55	20.60	19.07	20.09	19.86	18.69	16.61	12.62	12.98	9.46	3.78

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	20.02	18.17	18.86	18.56	17.31	15.03	11.19	11.19	7.72	2.96
42.5	28.48	24.93	25.02	24.01	22.00	18.85	13.84	13.51	8.97	3.31
37.5	37.59	31.95	30.76	27.89	24.42	20.64	14.91	14.23	9.23	3.29
33	46.80	39.26	36.95	32.20	26.59	21.47	15.29	14.43	9.16	3.18
29	53.61	44.59	41.55	35.54	28.22	21.57	14.97	14.04	8.72	2.97
25.5	57.14	46.82	43.30	36.71	28.50	20.91	14.00	12.97	7.96	2.67
22.5	70.24 *	55.82	50.92	42.82	32.79	23.38	15.06	13.72	8.38	2.77
19.5	71.59 *	54.55 *	48.45	40.41	30.69	21.40	13.33	11.99	7.31	2.38
17	67.62 *	50.01 *	43.09	35.43	26.71	18.33	11.20	9.95	6.05	1.95
15	77.48 *	56.37 *	47.35	38.12	28.54	19.46	11.71	10.26	6.20	1.98
13	87.18 *	62.40 *	51.31 *	40.67	30.32	20.57	12.17	10.54	6.34	2.01
11	96.83 *	68.35 *	55.03 *	42.92	31.94	21.51	12.57	10.77	6.47	2.03
9	105.78 *	74.08 *	58.70 *	44.93	33.29	22.29	12.89	10.97	6.57	2.05
7	112.91 *	78.80 *	61.96 *	46.77	34.34	22.88	13.14	11.12	6.64	2.07
5	119.00 *	82.44 *	64.46 *	48.20	35.09	23.34	13.36	11.26	6.71	2.08
3	123.71 *	84.89 *	66.03 *	49.13	35.61	23.62	13.46	11.34	6.75	2.09
1	62.90 *	42.97 *	33.34 *	24.77	17.93	11.85	6.72	5.67	3.38	1.04
0	62.90 *	42.97 *	33.34 *	24.77	17.93	11.85	6.72	5.67	3.38	1.04
-1	123.71 *	84.89 *	66.03 *	49.13	35.61	23.62	13.46	11.34	6.75	2.09
-3	119.00 *	82.44 *	64.46 *	48.20	35.09	23.34	13.36	11.26	6.71	2.08
-5	112.91 *	78.80 *	61.96 *	46.77	34.34	22.88	13.14	11.12	6.64	2.07
-7	105.78 *	74.08 *	58.70 *	44.93	33.29	22.29	12.89	10.97	6.57	2.05
-9	96.83 *	68.35 *	55.03 *	42.92	31.94	21.51	12.57	10.77	6.47	2.03
-11	87.18 *	62.40 *	51.31 *	40.67	30.32	20.57	12.17	10.54	6.34	2.01
-13	77.48 *	56.37 *	47.35	38.12	28.54	19.46	11.71	10.26	6.20	1.98
-15	67.62 *	50.01 *	43.09	35.43	26.71	18.33	11.20	9.95	6.05	1.95
-17	71.59 *	54.55 *	48.45	40.41	30.69	21.40	13.33	11.99	7.31	2.38
-19.5	70.24 *	55.82	50.92	42.82	32.79	23.38	15.06	13.72	8.38	2.77

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	57.14	46.82	43.30	36.71	28.50	20.91	14.00	12.97	7.96	2.67
-25.5	53.61	44.59	41.55	35.54	28.22	21.57	14.97	14.04	8.72	2.97
-29	46.80	39.26	36.95	32.20	26.59	21.47	15.29	14.43	9.16	3.18
-33	37.59	31.95	30.76	27.89	24.42	20.64	14.91	14.23	9.23	3.29
-37.5	28.48	24.93	25.02	24.01	22.00	18.85	13.84	13.51	8.97	3.31
-42.5	20.02	18.17	18.86	18.56	17.31	15.03	11.19	11.19	7.72	2.96
-47.5	20.60	19.07	20.09	19.86	18.69	16.61	12.62	12.98	9.46	3.78
-55	15.58	14.56	15.58	15.75	15.09	13.71	10.85	11.75	9.06	3.76
-65	7.59	7.17	7.74	7.95	7.80	7.32	6.01	6.79	5.42	2.30
-75	3.01	2.87	3.12	3.23	3.23	3.09	2.58	2.92	2.35	1.04
-85	0.29	0.27	0.30	0.32	0.32	0.31	0.26	0.30	0.25	0.12
-90										
Total	2571.88	1920.68	1647.86	1352.39	1058.82	776.28	504.31	465.38	298.19	103.66

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.03	0.00	4.92
85			
	0.26	0.01	49.47
75			
	0.54	0.02	123.02
65			
	0.84	0.02	248.22
55			
	0.83	0.02	317.40
47.5			
	0.65	0.02	309.48
42.5			
	0.72	0.02	446.83
37.5			
	0.70	0.02	581.89
33			
	0.66	0.02	716.93
29			
	0.61	0.02	850.81
25.5			
	0.54	0.01	974.74
22.5			
	0.56	0.01	1292.9
19.5			
	0.48	0.01	1399.44
17			
	0.39	0.01	1385.52

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

LUMENS TABULATION - (Cont.)

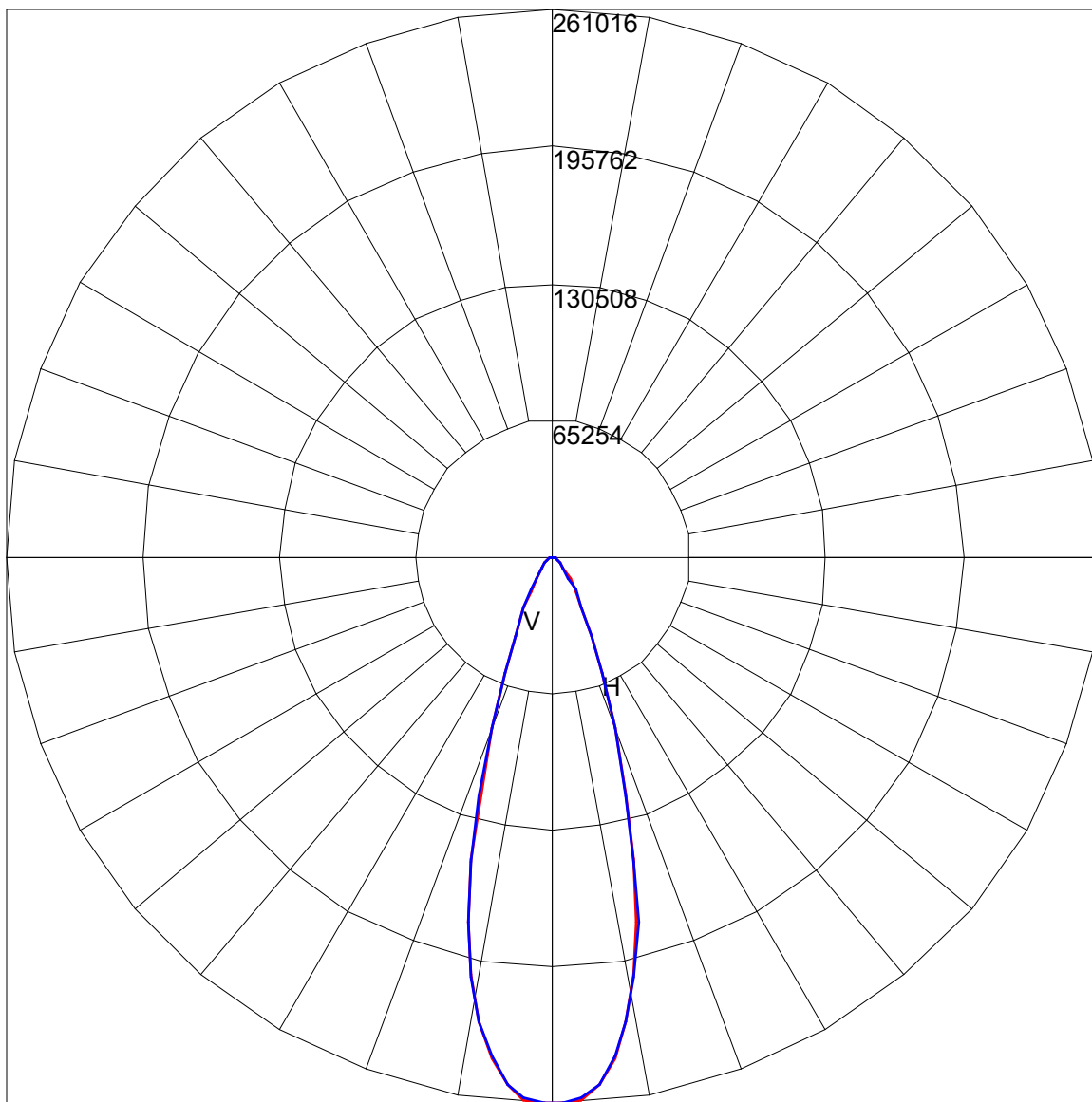
15			
	0.39	0.01	1652.34
13			
	0.40	0.01	1918.55
11			
	0.40	0.01	2164.9
9			
	0.40	0.01	2379.05
7			
	0.41	0.01	2548.65
5			
	0.41	0.01	2670.3
3			
	0.41	0.01	2744.93
1			
	0.20	0.00	1386.32
0			
	0.20	0.00	1386.32
-1			
	0.41	0.01	2744.93
-3			
	0.41	0.01	2670.3
-5			
	0.41	0.01	2548.65
-7			
	0.40	0.01	2379.05
-9			
	0.40	0.01	2164.9
-11			
	0.40	0.01	1918.55
-13			
	0.39	0.01	1652.34
-15			
	0.39	0.01	1385.52
-17			
	0.48	0.01	1399.44
-19.5			
	0.56	0.01	1292.9
-22.5			
	0.54	0.01	974.74
-25.5			
	0.61	0.02	850.81
-29			
	0.66	0.02	716.93
-33			
	0.70	0.02	581.89
-37.5			
	0.72	0.02	446.83
-42.5			
	0.65	0.02	309.48
-47.5			
	0.83	0.02	317.40
-55			
	0.84	0.02	248.22
-65			
	0.54	0.02	123.02

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

LUMENS TABULATION - (Cont.)

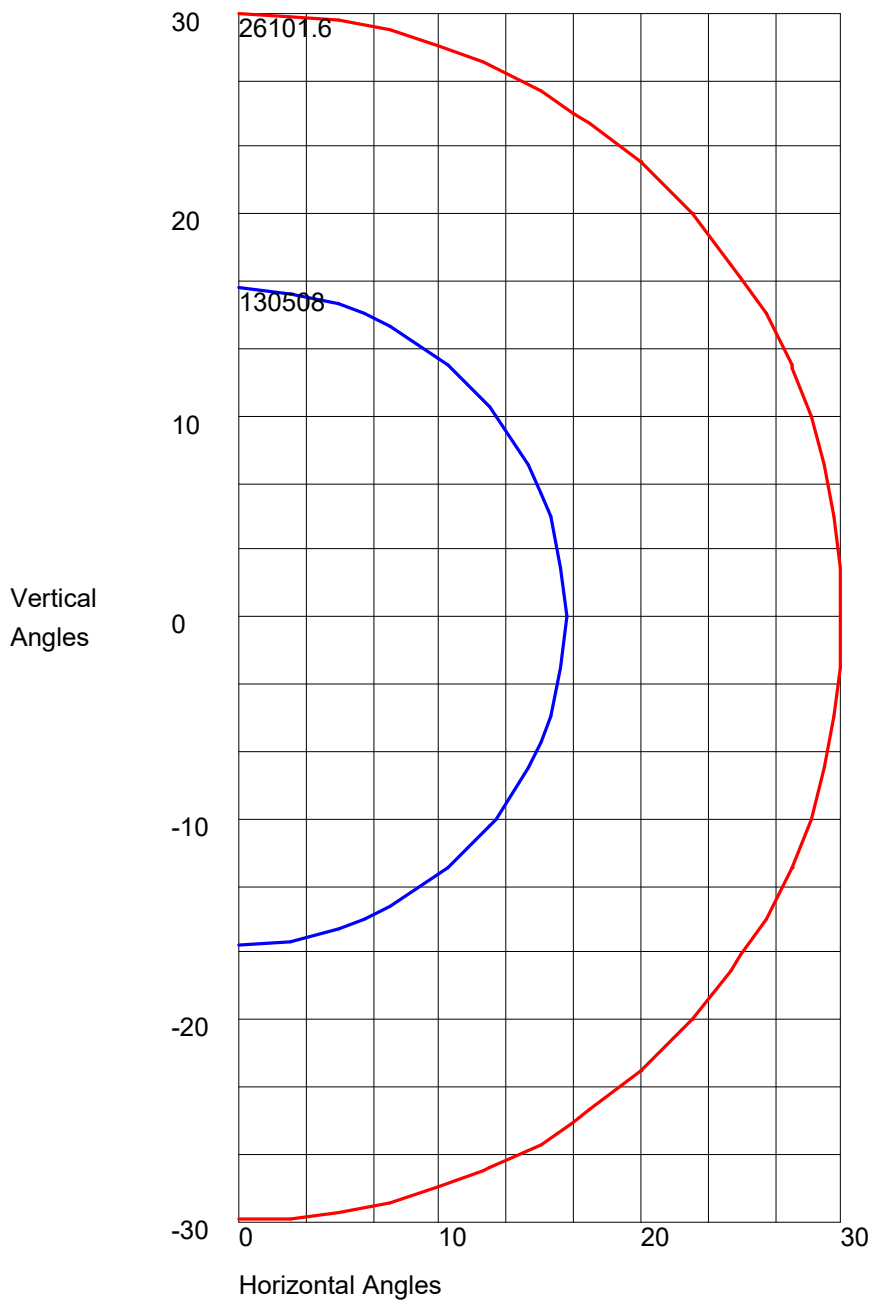
-75	0.26	0.01	49.47
-85	0.03	0.00	4.92
-90			
Total	21.63	0.56	52333.19

AXIAL CANDELA DISPLAY



Maximum Candela = 261016 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 26101.6 Located At Horizontal Angle = -1, Vertical Angle = -1
50% Maximum Candela = 13050.8
10% Maximum Candela = 26101.6