



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13165
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 06/30/22
[TESTDATE] 01/04/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-100L-NF-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	365359
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	23.8
Vertical Beam Angle (50%)	23.8
Horizontal Field Angle (10%)	49.9
Vertical Field Angle (10%)	50.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	37415
Beam Efficiency	N.A.
Field Lumens	73022
Field Efficiency	N.A.
Spill Lumens	32486
Luminaire Lumens	105509
Total Efficiency	N.A.
Total Luminaire Watts	765
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	212	85	216
75	941	75	953
65	1979	65	2015
55	4310	55	4360
47.5	7980	47.5	7953
42.5	11323	42.5	11327
37.5	14467	37.5	14615
33	18313	33	18378
29	24273	29	24449
25.5	34206	25.5	34592
22.5	47069	22.5	47540
19.5	64662	19.5	65300
17	84901	17	85728
15	108675	15	108618
13	150328	13	153032
11	208557	11	211074
9	270224	9	270610
7	322295	7	320460
5	351842	5	350394
3	363140	3	361981
1	365359	1	364925
0	364956	0	364956
-1	365359	-1	364925
-3	363140	-3	361981
-5	351842	-5	350394
-7	322295	-7	320460
-9	270224	-9	270610
-11	208557	-11	211074
-13	150328	-13	153032
-15	108675	-15	108618
-17	84901	-17	85728
-19.5	64662	-19.5	65300
-22.5	47069	-22.5	47540
-25.5	34206	-25.5	34592
-29	24273	-29	24449
-33	18313	-33	18378
-37.5	14467	-37.5	14615
-42.5	11323	-42.5	11327
-47.5	7980	-47.5	7953
-55	4310	-55	4360
-65	1979	-65	2015
-75	941	-75	953
-85	212	-85	216
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 365359

Beam Edge = 182679.5 Cd (50% of Max.)

Field Edge = 36535.9 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	48	73	105	129	143	157	168	178
75.0	0	48	156	282	429	542	614	676	728	780
65.0	0	78	287	551	855	1074	1218	1361	1489	1589
55.0	0	111	430	859	1313	1709	2009	2365	2708	2997
47.5	0	136	536	1070	1709	2375	2945	3597	4224	4853
42.5	0	150	609	1205	2006	2941	3721	4678	5689	6651
37.5	0	164	675	1338	2351	3589	4663	6070	7548	8932
33.0	0	175	729	1459	2693	4200	5672	7534	9394	11056
29.0	0	183	778	1561	2989	4831	6633	8908	11097	13024
25.5	0	190	816	1650	3257	5371	7537	10100	12475	14307
22.5	0	195	846	1714	3464	5884	8274	11064	13488	15679
19.5	0	199	872	1780	3656	6347	8978	11911	14370	17033
17.0	0	203	890	1827	3816	6711	9493	12542	15178	18122
15.0	0	205	903	1861	3929	6985	9868	12996	15767	18978
13.0	0	207	913	1890	4026	7225	10204	13359	16275	20023
11.0	0	213	922	1915	4109	7432	10496	13670	16774	20942
9.0	0	213	929	1936	4177	7605	10742	13927	17241	21725
7.0	0	212	935	1953	4231	7742	10939	14130	17622	22561
5.0	0	212	944	1966	4272	7847	11088	14279	17899	23350
3.0	0	212	943	1979	4315	7969	11271	14385	18085	23877
1.0	0	212	942	1979	4312	7976	11306	14460	18261	24206
0.0	0	212	941	1979	4310	7980	11323	14467	18313	24273
-1.0	0	212	942	1979	4312	7976	11306	14460	18261	24206
-3.0	0	212	943	1979	4315	7969	11271	14385	18085	23877
-5.0	0	212	944	1966	4272	7847	11088	14279	17899	23350
-7.0	0	212	935	1953	4231	7742	10939	14130	17622	22561
-9.0	0	213	929	1936	4177	7605	10742	13927	17241	21725
-11.0	0	213	922	1915	4109	7432	10496	13670	16774	20942
-13.0	0	207	913	1890	4026	7225	10204	13359	16275	20023
-15.0	0	205	903	1861	3929	6985	9868	12996	15767	18978
-17.0	0	203	890	1827	3816	6711	9493	12542	15178	18122
-19.5	0	199	872	1780	3656	6347	8978	11911	14370	17033
-22.5	0	195	846	1714	3464	5884	8274	11064	13488	15679
-25.5	0	190	816	1650	3257	5371	7537	10100	12475	14307
-29.0	0	183	778	1561	2989	4831	6633	8908	11097	13024
-33.0	0	175	729	1459	2693	4200	5672	7534	9394	11056
-37.5	0	164	675	1338	2351	3589	4663	6070	7548	8932
-42.5	0	150	609	1205	2006	2941	3721	4678	5689	6651
-47.5	0	136	536	1070	1709	2375	2945	3597	4224	4853
-55.0	0	111	430	859	1313	1709	2009	2365	2708	2997
-65.0	0	78	287	551	855	1074	1218	1361	1489	1589
-75.0	0	48	156	282	429	542	614	676	728	780
-85.0	0	16	48	73	105	129	143	157	168	178
-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	185	192	198	203	207	209	215	215	215	215
75.0	819	847	868	884	895	908	922	934	944	959
65.0	1674	1737	1803	1852	1887	1919	1946	1968	1986	1998
55.0	3270	3483	3684	3851	3972	4081	4170	4242	4298	4340
47.5	5381	5887	6346	6711	6999	7252	7471	7656	7805	7916
42.5	7579	8318	9008	9517	9897	10241	10541	10795	11001	11157
37.5	10113	11068	11951	12630	13116	13475	13790	14056	14250	14390
33.0	12479	13539	14428	15260	15909	16476	16981	17411	17755	18014
29.0	14323	15657	17027	18152	19047	20150	21072	21860	22731	23558
25.5	16153	17866	19861	21737	23675	25672	27446	29681	31652	33056
22.5	17904	20258	23379	26748	30037	33476	36540 *	40008 *	42974 *	45251 *
19.5	19891	23377	28374	34044	38915 *	44038 *	48702 *	53495 *	57758 *	61157 *
17.0	21694	26684	33923	41311 *	47501 *	54503 *	60795 *	67682 *	73876 *	78755 *
15.0	23576	29862	38633 *	47337 *	55578 *	63719 *	72630 *	80871 *	91857 *	100491 *
13.0	25518	33186	43599 *	54100 *	63449 *	74420 *	86437 *	100468 *	115288 *	132835 *
11.0	27238	36215	48313 *	60408 *	72299 *	86314 *	103169 *	126411 *	151182 *	176076 *
9.0	29389	39743 *	53379 *	67484 *	80526 *	100126 *	126259 *	156798 *	197470 *	232858 *
7.0	31306	42677 *	57742 *	73628 *	90780 *	113860 *	150575 *	196598 *	243332 *	282401 *
5.0	32769	44907 *	61096 *	78509 *	99296 *	131197 *	175018 *	231594 *	282304 *	319719 *
3.0	33764	46414 *	63533 *	82523 *	105125 *	143264 *	196125 *	255692 *	309898 *	339006 *
1.0	34196	47166 *	64671 *	84791 *	108464 *	149347 *	207185 *	267797 *	319003 *	350663 *
0.0	34206	47069 *	64662 *	84901 *	108675 *	150328 *	208557 *	270224 *	322295 *	351842 *
-1.0	34196	47166 *	64671 *	84791 *	108464 *	149347 *	207185 *	267797 *	319003 *	350663 *
-3.0	33764	46414 *	63533 *	82523 *	105125 *	143264 *	196125 *	255692 *	309898 *	339006 *
-5.0	32769	44907 *	61096 *	78509 *	99296 *	131197 *	175018 *	231594 *	282304 *	319719 *
-7.0	31306	42677 *	57742 *	73628 *	90780 *	113860 *	150575 *	196598 *	243332 *	282401 *
-9.0	29389	39743 *	53379 *	67484 *	80526 *	100126 *	126259 *	156798 *	197470 *	232858 *
-11.0	27238	36215	48313 *	60408 *	72299 *	86314 *	103169 *	126411 *	151182 *	176076 *
-13.0	25518	33186	43599 *	54100 *	63449 *	74420 *	86437 *	100468 *	115288 *	132835 *
-15.0	23576	29862	38633 *	47337 *	55578 *	63719 *	72630 *	80871 *	91857 *	100491 *
-17.0	21694	26684	33923	41311 *	47501 *	54503 *	60795 *	67682 *	73876 *	78755 *
-19.5	19891	23377	28374	34044	38915 *	44038 *	48702 *	53495 *	57758 *	61157 *
-22.5	17904	20258	23379	26748	30037	33476	36540 *	40008 *	42974 *	45251 *
-25.5	16153	17866	19861	21737	23675	25672	27446	29681	31652	33056
-29.0	14323	15657	17027	18152	19047	20150	21072	21860	22731	23558
-33.0	12479	13539	14428	15260	15909	16476	16981	17411	17755	18014
-37.5	10113	11068	11951	12630	13116	13475	13790	14056	14250	14390
-42.5	7579	8318	9008	9517	9897	10241	10541	10795	11001	11157
-47.5	5381	5887	6346	6711	6999	7252	7471	7656	7805	7916
-55.0	3270	3483	3684	3851	3972	4081	4170	4242	4298	4340
-65.0	1674	1737	1803	1852	1887	1919	1946	1968	1986	1998
-75.0	819	847	868	884	895	908	922	934	944	959
-85.0	185	192	198	203	207	209	215	215	215	215
-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	215	216	216	216	215	215	215	215	215	209
75.0	957	954	953	954	957	959	944	934	922	908
65.0	2013	2014	2015	2014	2013	1998	1986	1968	1946	1919

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CANDELA TABULATION - (Cont.)

55.0	4379	4366	4360	4366	4379	4340	4298	4242	4170	4081
47.5	8016	7974	7953	7974	8016	7916	7805	7656	7471	7252
42.5	11321	11325	11327	11325	11321	11157	11001	10795	10541	10241
37.5	14476	14589	14615	14589	14476	14390	14250	14056	13790	13475
33.0	18184	18333	18378	18333	18184	18014	17755	17411	16981	16476
29.0	24097	24395	24449	24395	24097	23558	22731	21860	21072	20150
25.5	33957	34477	34592	34477	33957	33056	31652	29681	27446	25672
22.5	46794 *	47617 *	47540 *	47617 *	46794 *	45251 *	42974 *	40008 *	36540 *	33476
19.5	64095 *	65486 *	65300 *	65486 *	64095 *	61157 *	57758 *	53495 *	48702 *	44038 *
17.0	83377 *	85994 *	85728 *	85994 *	83377 *	78755 *	73876 *	67682 *	60795 *	54503 *
15.0	106503 *	109652 *	108618 *	109652 *	106503 *	100491 *	91857 *	80871 *	72630 *	63719 *
13.0	145115 *	151421 *	153032 *	151421 *	145115 *	132835 *	115288 *	100468 *	86437 *	74420 *
11.0	197539 *	208427 *	211074 *	208427 *	197539 *	176076 *	151182 *	126411 *	103169 *	86314 *
9.0	256253 *	268257 *	270610 *	268257 *	256253 *	232858 *	197470 *	156798 *	126259 *	100126 *
7.0	310189 *	319096 *	320460 *	319096 *	310189 *	282401 *	243332 *	196598 *	150575 *	113860 *
5.0	337985 *	350420 *	350394 *	350420 *	337985 *	319719 *	282304 *	231594 *	175018 *	131197 *
3.0	354854 *	360868 *	361981 *	360868 *	354854 *	339006 *	309898 *	255692 *	196125 *	143264 *
1.0	361671 *	365116 *	364925 *	365116 *	361671 *	350663 *	319003 *	267797 *	207185 *	149347 *
0.0	363140 *	365359 *	364956 *	365359 *	363140 *	351842 *	322295 *	270224 *	208557 *	150328 *
-1.0	361671 *	365116 *	364925 *	365116 *	361671 *	350663 *	319003 *	267797 *	207185 *	149347 *
-3.0	354854 *	360868 *	361981 *	360868 *	354854 *	339006 *	309898 *	255692 *	196125 *	143264 *
-5.0	337985 *	350420 *	350394 *	350420 *	337985 *	319719 *	282304 *	231594 *	175018 *	131197 *
-7.0	310189 *	319096 *	320460 *	319096 *	310189 *	282401 *	243332 *	196598 *	150575 *	113860 *
-9.0	256253 *	268257 *	270610 *	268257 *	256253 *	232858 *	197470 *	156798 *	126259 *	100126 *
-11.0	197539 *	208427 *	211074 *	208427 *	197539 *	176076 *	151182 *	126411 *	103169 *	86314 *
-13.0	145115 *	151421 *	153032 *	151421 *	145115 *	132835 *	115288 *	100468 *	86437 *	74420 *
-15.0	106503 *	109652 *	108618 *	109652 *	106503 *	100491 *	91857 *	80871 *	72630 *	63719 *
-17.0	83377 *	85994 *	85728 *	85994 *	83377 *	78755 *	73876 *	67682 *	60795 *	54503 *
-19.5	64095 *	65486 *	65300 *	65486 *	64095 *	61157 *	57758 *	53495 *	48702 *	44038 *
-22.5	46794 *	47617 *	47540 *	47617 *	46794 *	45251 *	42974 *	40008 *	36540 *	33476
-25.5	33957	34477	34592	34477	33957	33056	31652	29681	27446	25672
-29.0	24097	24395	24449	24395	24097	23558	22731	21860	21072	20150
-33.0	18184	18333	18378	18333	18184	18014	17755	17411	16981	16476
-37.5	14476	14589	14615	14589	14476	14390	14250	14056	13790	13475
-42.5	11321	11325	11327	11325	11321	11157	11001	10795	10541	10241
-47.5	8016	7974	7953	7974	8016	7916	7805	7656	7471	7252
-55.0	4379	4366	4360	4366	4379	4340	4298	4242	4170	4081
-65.0	2013	2014	2015	2014	2013	1998	1986	1968	1946	1919
-75.0	957	954	953	954	957	959	944	934	922	908
-85.0	215	216	216	216	215	215	215	215	215	209
-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	207	203	198	192	185	178	168	157	143	129
75.0	895	884	868	847	819	780	728	676	614	542
65.0	1887	1852	1803	1737	1674	1589	1489	1361	1218	1074
55.0	3972	3851	3684	3483	3270	2997	2708	2365	2009	1709
47.5	6999	6711	6346	5887	5381	4853	4224	3597	2945	2375
42.5	9897	9517	9008	8318	7579	6651	5689	4678	3721	2941
37.5	13116	12630	11951	11068	10113	8932	7548	6070	4663	3589
33.0	15909	15260	14428	13539	12479	11056	9394	7534	5672	4200
29.0	19047	18152	17027	15657	14323	13024	11097	8908	6633	4831
25.5	23675	21737	19861	17866	16153	14307	12475	10100	7537	5371

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CANDELA TABULATION - (Cont.)

22.5	30037	26748	23379	20258	17904	15679	13488	11064	8274	5884
19.5	38915 *	34044	28374	23377	19891	17033	14370	11911	8978	6347
17.0	47501 *	41311 *	33923	26684	21694	18122	15178	12542	9493	6711
15.0	55578 *	47337 *	38633 *	29862	23576	18978	15767	12996	9868	6985
13.0	63449 *	54100 *	43599 *	33186	25518	20023	16275	13359	10204	7225
11.0	72299 *	60408 *	48313 *	36215	27238	20942	16774	13670	10496	7432
9.0	80526 *	67484 *	53379 *	39743 *	29389	21725	17241	13927	10742	7605
7.0	90780 *	73628 *	57742 *	42677 *	31306	22561	17622	14130	10939	7742
5.0	99296 *	78509 *	61096 *	44907 *	32769	23350	17899	14279	11088	7847
3.0	105125 *	82523 *	63533 *	46414 *	33764	23877	18085	14385	11271	7969
1.0	108464 *	84791 *	64671 *	47166 *	34196	24206	18261	14460	11306	7976
0.0	108675 *	84901 *	64662 *	47069 *	34206	24273	18313	14467	11323	7980
-1.0	108464 *	84791 *	64671 *	47166 *	34196	24206	18261	14460	11306	7976
-3.0	105125 *	82523 *	63533 *	46414 *	33764	23877	18085	14385	11271	7969
-5.0	99296 *	78509 *	61096 *	44907 *	32769	23350	17899	14279	11088	7847
-7.0	90780 *	73628 *	57742 *	42677 *	31306	22561	17622	14130	10939	7742
-9.0	80526 *	67484 *	53379 *	39743 *	29389	21725	17241	13927	10742	7605
-11.0	72299 *	60408 *	48313 *	36215	27238	20942	16774	13670	10496	7432
-13.0	63449 *	54100 *	43599 *	33186	25518	20023	16275	13359	10204	7225
-15.0	55578 *	47337 *	38633 *	29862	23576	18978	15767	12996	9868	6985
-17.0	47501 *	41311 *	33923	26684	21694	18122	15178	12542	9493	6711
-19.5	38915 *	34044	28374	23377	19891	17033	14370	11911	8978	6347
-22.5	30037	26748	23379	20258	17904	15679	13488	11064	8274	5884
-25.5	23675	21737	19861	17866	16153	14307	12475	10100	7537	5371
-29.0	19047	18152	17027	15657	14323	13024	11097	8908	6633	4831
-33.0	15909	15260	14428	13539	12479	11056	9394	7534	5672	4200
-37.5	13116	12630	11951	11068	10113	8932	7548	6070	4663	3589
-42.5	9897	9517	9008	8318	7579	6651	5689	4678	3721	2941
-47.5	6999	6711	6346	5887	5381	4853	4224	3597	2945	2375
-55.0	3972	3851	3684	3483	3270	2997	2708	2365	2009	1709
-65.0	1887	1852	1803	1737	1674	1589	1489	1361	1218	1074
-75.0	895	884	868	847	819	780	728	676	614	542
-85.0	207	203	198	192	185	178	168	157	143	129
-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	105	73	48	16	0
75.0	429	282	156	48	0
65.0	855	551	287	78	0
55.0	1313	859	430	111	0
47.5	1709	1070	536	136	0
42.5	2006	1205	609	150	0
37.5	2351	1338	675	164	0
33.0	2693	1459	729	175	0
29.0	2989	1561	778	183	0
25.5	3257	1650	816	190	0
22.5	3464	1714	846	195	0
19.5	3656	1780	872	199	0
17.0	3816	1827	890	203	0
15.0	3929	1861	903	205	0
13.0	4026	1890	913	207	0
11.0	4109	1915	922	213	0
9.0	4177	1936	929	213	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	4231	1953	935	212	0
5.0	4272	1966	944	212	0
3.0	4315	1979	943	212	0
1.0	4312	1979	942	212	0
0.0	4310	1979	941	212	0
-1.0	4312	1979	942	212	0
-3.0	4315	1979	943	212	0
-5.0	4272	1966	944	212	0
-7.0	4231	1953	935	212	0
-9.0	4177	1936	929	213	0
-11.0	4109	1915	922	213	0
-13.0	4026	1890	913	207	0
-15.0	3929	1861	903	205	0
-17.0	3816	1827	890	203	0
-19.5	3656	1780	872	199	0
-22.5	3464	1714	846	195	0
-25.5	3257	1650	816	190	0
-29.0	2989	1561	778	183	0
-33.0	2693	1459	729	175	0
-37.5	2351	1338	675	164	0
-42.5	2006	1205	609	150	0
-47.5	1709	1070	536	136	0
-55.0	1313	859	430	111	0
-65.0	855	551	287	78	0
-75.0	429	282	156	48	0
-85.0	105	73	48	16	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 52754.36

Total Field Lumens (one side of beam only) = 36511.24

* 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	0.16	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.30	0.36
75	1.78	3.56	3.56	3.53	3.48	3.43	3.36	3.28	3.20	3.89
65	4.52	9.04	9.00	8.92	8.80	8.65	8.48	8.29	8.08	9.78
55	9.71	19.44	19.34	19.12	18.84	18.49	18.05	17.52	16.93	20.23
47.5	14.08	28.24	28.09	27.67	27.15	26.48	25.67	24.72	23.64	27.92
42.5	14.69	29.40	29.18	28.69	28.10	27.34	26.45	25.41	24.25	28.55
37.5	19.74	39.35	39.00	38.47	37.78	36.88	35.79	34.53	33.06	38.97
33	22.59	44.92	44.48	43.90	43.08	42.01	40.71	39.22	37.50	44.15
29	26.06	51.76	50.96	49.72	48.12	46.39	44.50	42.31	40.04	46.91
25.5	31.43	62.29	60.98	58.84	55.91	52.53	49.19	45.80	42.33	48.58
22.5	37.52 *	74.36 *	72.50 *	69.49 *	65.30	60.15	55.03	50.03	44.89	49.75
19.5	51.62 *	102.28 *	99.04 *	94.12 *	87.88 *	80.43 *	72.74 *	64.93 *	56.98	61.04
17	57.59 *	113.76 *	109.16 *	102.83 *	95.32 *	86.50 *	77.48 *	68.33 *	59.21 *	62.22
15	59.40 *	117.36 *	112.16 *	104.51 *	94.80 *	84.59 *	74.98 *	65.41 *	56.14 *	58.29 *
13	79.61 *	156.07 *	147.36 *	133.43 *	117.18 *	102.11 *	88.55 *	76.01 *	64.55 *	66.41 *
11	110.26 *	213.85 *	197.98 *	174.30 *	148.81 *	124.93 *	104.38 *	87.63 *	73.28 *	74.64 *
9	145.96 *	283.25 *	262.15 *	229.50 *	190.59 *	153.78 *	123.91 *	100.27 *	82.19 *	83.02 *
7	179.47 *	351.23 *	328.69 *	289.62 *	239.56 *	189.05 *	146.24 *	113.87 *	91.48 *	91.20 *
5	204.14 *	401.13 *	379.91 *	341.63 *	287.71 *	226.12 *	170.02 *	128.61 *	100.20 *	97.98 *
3	216.83 *	427.44 *	410.69 *	378.95 *	325.61 *	257.51 *	192.35 *	141.54 *	107.01 *	103.29 *
1	221.28 *	439.12 *	427.29 *	399.44 *	347.60 *	278.02 *	207.35 *	149.61 *	111.53 *	106.86 *
0	111.21 *	221.51 *	216.85 *	203.54 *	177.86 *	143.05 *	106.58 *	76.37 *	56.63 *	54.06 *
-1	111.21 *	221.51 *	216.85 *	203.54 *	177.86 *	143.05 *	106.58 *	76.37 *	56.63 *	54.06 *
	221.28 *	439.12 *	427.29 *	399.44 *	347.60 *	278.02 *	207.35 *	149.61 *	111.53 *	106.86 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	216.83 *	427.44 *	410.69 *	378.95 *	325.61 *	257.51 *	192.35 *	141.54 *	107.01 *	103.29 *
-5	204.14 *	401.13 *	379.91 *	341.63 *	287.71 *	226.12 *	170.02 *	128.61 *	100.20 *	97.98 *
-7	179.47 *	351.23 *	328.69 *	289.62 *	239.56 *	189.05 *	146.24 *	113.87 *	91.48 *	91.20 *
-9	145.96 *	283.25 *	262.15 *	229.50 *	190.59 *	153.78 *	123.91 *	100.27 *	82.19 *	83.02 *
-11	110.26 *	213.85 *	197.98 *	174.30 *	148.81 *	124.93 *	104.38 *	87.63 *	73.28 *	74.64 *
-13	79.61 *	156.07 *	147.36 *	133.43 *	117.18 *	102.11 *	88.55 *	76.01 *	64.55 *	66.41 *
-15	59.40 *	117.36 *	112.16 *	104.51 *	94.80 *	84.59 *	74.98 *	65.41 *	56.14 *	58.29 *
-17	57.59 *	113.76 *	109.16 *	102.83 *	95.32 *	86.50 *	77.48 *	68.33 *	59.21 *	62.22
-19.5	51.62 *	102.28 *	99.04 *	94.12 *	87.88 *	80.43 *	72.74 *	64.93 *	56.98	61.04
-22.5	37.52 *	74.36 *	72.50 *	69.49 *	65.30	60.15	55.03	50.03	44.89	49.75
-25.5	31.43	62.29	60.98	58.84	55.91	52.53	49.19	45.80	42.33	48.58
-29	26.06	51.76	50.96	49.72	48.12	46.39	44.50	42.31	40.04	46.91
-33	22.59	44.92	44.48	43.90	43.08	42.01	40.71	39.22	37.50	44.15
-37.5	19.74	39.35	39.00	38.47	37.78	36.88	35.79	34.53	33.06	38.97
-42.5	14.69	29.40	29.18	28.69	28.10	27.34	26.45	25.41	24.25	28.55
-47.5	14.08	28.24	28.09	27.67	27.15	26.48	25.67	24.72	23.64	27.92
-55	9.71	19.44	19.34	19.12	18.84	18.49	18.05	17.52	16.93	20.23
-65	4.52	9.04	9.00	8.92	8.80	8.65	8.48	8.29	8.08	9.78
-75	1.78	3.56	3.56	3.53	3.48	3.43	3.36	3.28	3.20	3.89
-85	0.16	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.30	0.36
-90										
Total	3239.28	6379.39	6097.39	5601.1	4899.63	4097.51	3344.23	2727.98	2266.81	2356.22

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.42	0.39	0.43	0.45	0.45	0.44	0.37	0.42	0.34	0.16
85	4.49	4.26	4.65	4.84	4.84	4.64	3.84	4.30	3.38	1.45
75	11.21	10.60	11.52	11.97	11.90	11.28	9.28	10.36	8.05	3.32
65	22.83	21.21	22.58	22.93	22.17	20.27	16.18	17.69	13.61	5.53
55	31.03	28.21	29.32	28.94	27.06	23.87	18.25	19.04	14.12	5.65

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	31.52	28.34	28.98	27.96	25.44	21.78	16.13	16.13	11.39	4.45
42.5	43.02	38.69	39.42	37.62	33.55	27.89	20.07	19.45	13.12	4.98
37.5	48.93	44.32	45.40	43.38	38.46	31.41	21.95	20.63	13.42	4.92
33	51.74	46.74	48.22	46.54	41.33	33.53	22.97	21.02	13.24	4.71
29	52.56	46.75	47.94	46.51	41.70	33.86	22.96	20.57	12.59	4.37
25.5	52.06	45.19	45.52	43.82	39.56	32.35	21.86	19.27	11.51	3.92
22.5	61.03	50.98	50.11	47.44	42.67	35.19	23.81	20.74	12.11	4.07
19.5	59.90	47.81	45.45	42.23	37.77	31.29	21.22	18.34	10.53	3.49
17	55.07	42.50	39.03	35.53	31.61	26.18	17.80	15.32	8.70	2.85
15	61.97	46.81	41.74	37.09	32.68	27.08	18.45	15.84	8.90	2.90
13	68.80 *	50.99	44.41	38.64	33.62	27.84	19.03	16.28	9.08	2.93
11	75.77 *	55.34	47.05	40.04	34.48	28.48	19.53	16.66	9.23	2.97
9	82.55 *	59.73	49.74	41.32	35.21	29.01	19.93	16.97	9.35	2.99
7	88.04 *	63.30 *	52.12	42.52	35.77	29.41	20.25	17.21	9.45	3.02
5	92.11 *	65.88 *	53.90	43.45	36.18	29.76	20.55	17.44	9.53	3.03
3	94.60 *	67.42 *	54.99	44.08	36.48	29.99	20.74	17.56	9.57	3.04
1	47.68 *	33.94 *	27.69	22.20	18.33	15.03	10.39	8.78	4.78	1.52
0	47.68 *	33.94 *	27.69	22.20	18.33	15.03	10.39	8.78	4.78	1.52
-1	94.60 *	67.42 *	54.99	44.08	36.48	29.99	20.74	17.56	9.57	3.04
-3	92.11 *	65.88 *	53.90	43.45	36.18	29.76	20.55	17.44	9.53	3.03
-5	88.04 *	63.30 *	52.12	42.52	35.77	29.41	20.25	17.21	9.45	3.02
-7	82.55 *	59.73	49.74	41.32	35.21	29.01	19.93	16.97	9.35	2.99
-9	75.77 *	55.34	47.05	40.04	34.48	28.48	19.53	16.66	9.23	2.97
-11	68.80 *	50.99	44.41	38.64	33.62	27.84	19.03	16.28	9.08	2.93
-13	61.97	46.81	41.74	37.09	32.68	27.08	18.45	15.84	8.90	2.90
-15	55.07	42.50	39.03	35.53	31.61	26.18	17.80	15.32	8.70	2.85
-17	59.90	47.81	45.45	42.23	37.77	31.29	21.22	18.34	10.53	3.49
-19.5	61.03	50.98	50.11	47.44	42.67	35.19	23.81	20.74	12.11	4.07

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	52.06	45.19	45.52	43.82	39.56	32.35	21.86	19.27	11.51	3.92
-25.5	52.56	46.75	47.94	46.51	41.70	33.86	22.96	20.57	12.59	4.37
-29	51.74	46.74	48.22	46.54	41.33	33.53	22.97	21.02	13.24	4.71
-33	48.93	44.32	45.40	43.38	38.46	31.41	21.95	20.63	13.42	4.92
-37.5	43.02	38.69	39.42	37.62	33.55	27.89	20.07	19.45	13.12	4.98
-42.5	31.52	28.34	28.98	27.96	25.44	21.78	16.13	16.13	11.39	4.45
-47.5	31.03	28.21	29.32	28.94	27.06	23.87	18.25	19.04	14.12	5.65
-55	22.83	21.21	22.58	22.93	22.17	20.27	16.18	17.69	13.61	5.53
-65	11.21	10.60	11.52	11.97	11.90	11.28	9.28	10.36	8.05	3.32
-75	4.49	4.26	4.65	4.84	4.84	4.64	3.84	4.30	3.38	1.45
-85	0.42	0.39	0.43	0.45	0.45	0.44	0.37	0.42	0.34	0.16
-90										
Total	2274.64	1798.8	1660.42	1498.99	1322.48	1101.17	771.07	700.03	432.00	152.55

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.04	0.00		6.98
85				
	0.35	0.01		74.15
75				
	0.75	0.02		183.82
65				
	1.20	0.03		363.90
55				
	1.20	0.03		480.37
47.5				
	0.94	0.02		475.14
42.5				
	1.06	0.03		632.47
37.5				
	1.04	0.03		716.44
33				
	0.99	0.02		777.82
29				
	0.91	0.02		838.60
25.5				
	0.81	0.02		894.88
22.5				
	0.84	0.02		1120.07
19.5				
	0.71	0.02		1151.15
17				
	0.58	0.01		1102.79

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

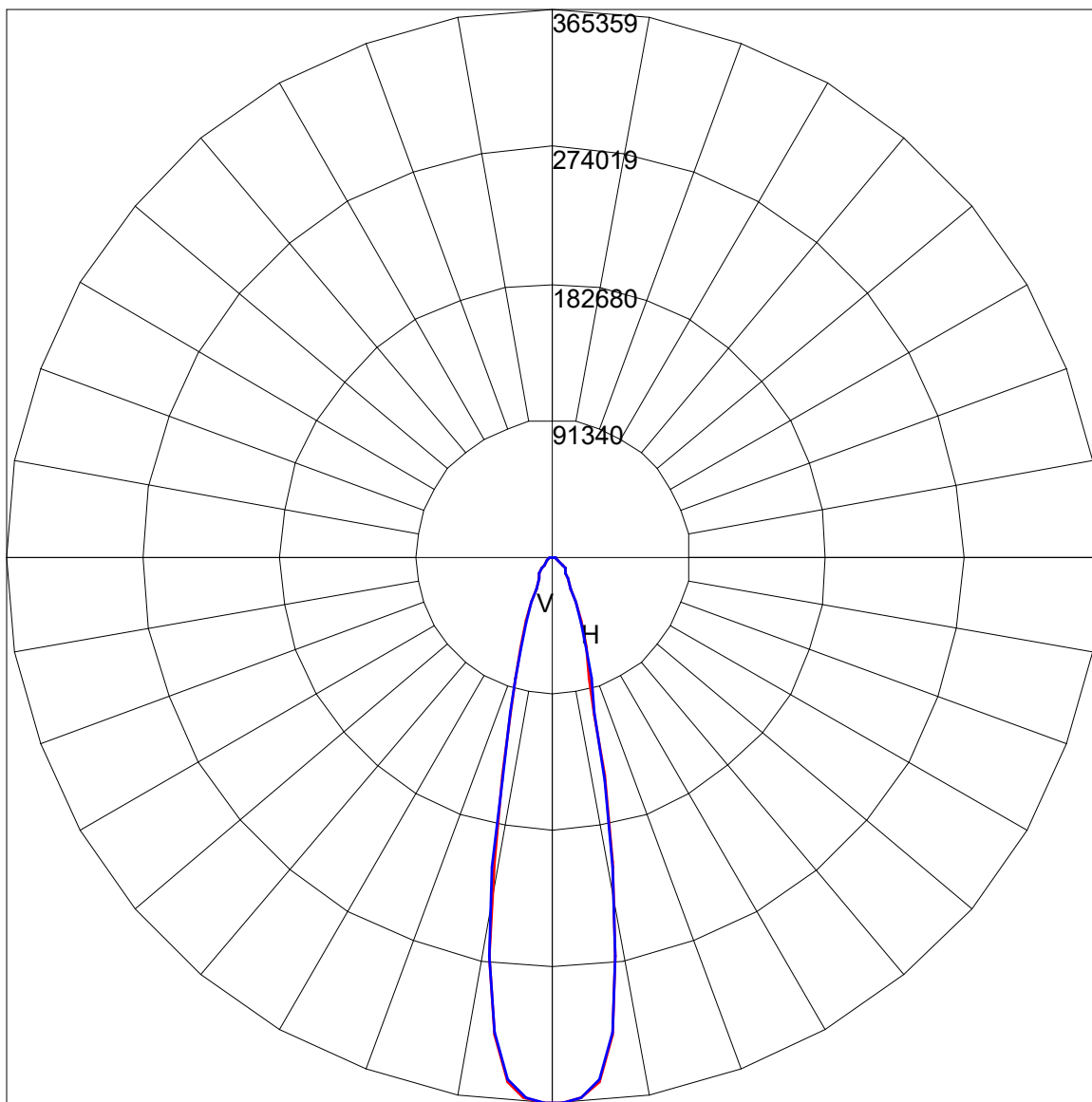
15	0.59	0.01	1325.34
13	0.60	0.01	1622.31
11	0.60	0.01	1984.77
9	0.60	0.01	2367.86
7	0.61	0.01	2699.17
5	0.61	0.01	2933.66
3	0.61	0.01	3067.17
1	0.30	0.01	1558.32
0	0.30	0.01	1558.32
-1	0.61	0.01	3067.17
-3	0.61	0.01	2933.66
-5	0.61	0.01	2699.17
-7	0.60	0.01	2367.86
-9	0.60	0.01	1984.77
-11	0.60	0.01	1622.31
-13	0.59	0.01	1325.34
-15	0.58	0.01	1102.79
-17	0.71	0.02	1151.15
-19.5	0.84	0.02	1120.07
-22.5	0.81	0.02	894.88
-25.5	0.91	0.02	838.60
-29	0.99	0.02	777.82
-33	1.04	0.03	716.44
-37.5	1.06	0.03	632.47
-42.5	0.94	0.02	475.14
-47.5	1.20	0.03	480.37
-55	1.20	0.03	363.90
-65	0.75	0.02	183.82

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

LUMENS TABULATION - (Cont.)

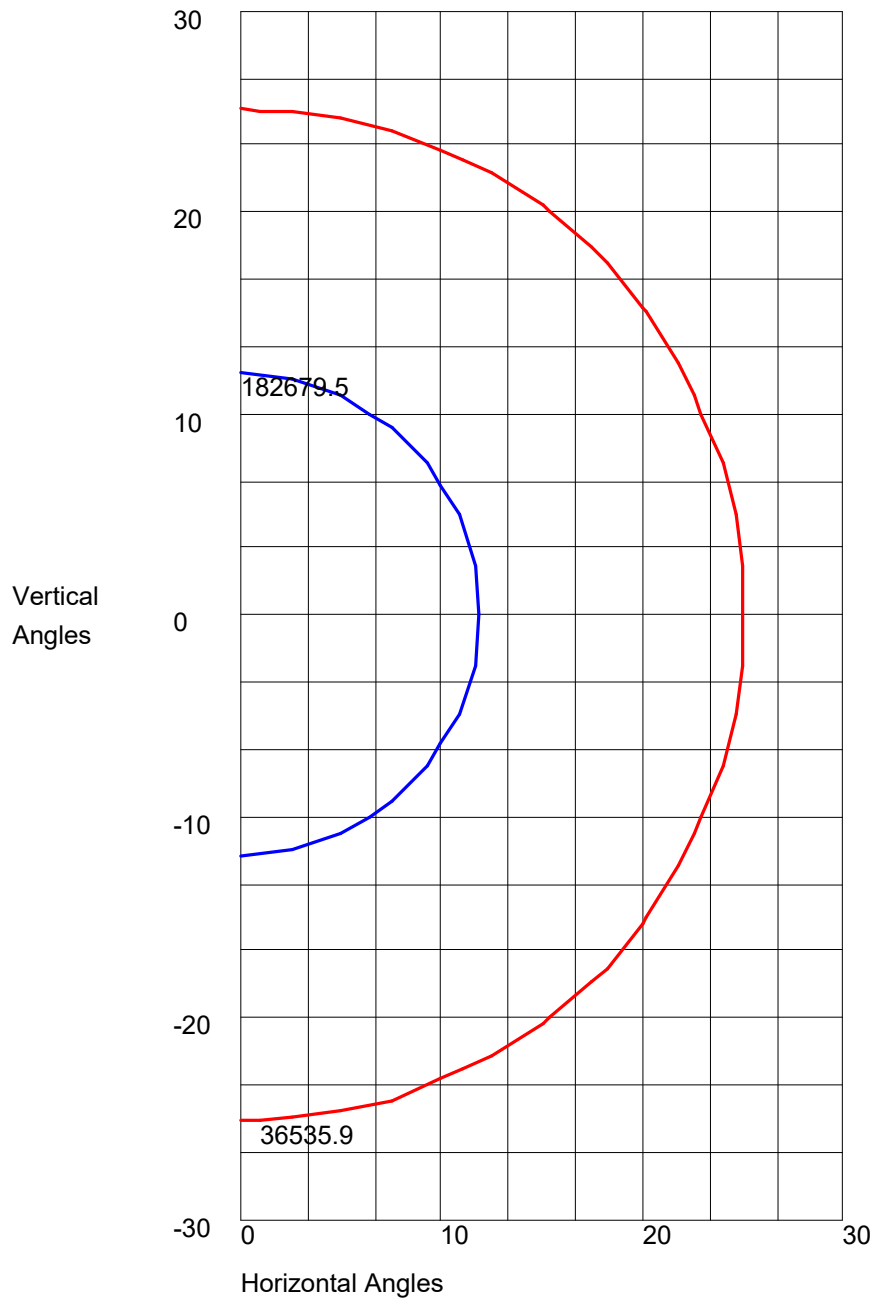
-75	0.35	0.01	74.15
-85	0.04	0.00	6.98
-90			
Total	31.89	0.78	52754.36

AXIAL CANDELA DISPLAY



Maximum Candela = 365359 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 365359 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 182679.5
10% Maximum Candela = 36535.9