



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13130  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 06/30/22  
[TESTDATE] 12/16/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-100L-MF-40-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] 4000

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

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	241386
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	32.1
Vertical Beam Angle (50%)	32.2
Horizontal Field Angle (10%)	60.4
Vertical Field Angle (10%)	59.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	44790
Beam Efficiency	N.A.
Field Lumens	77236
Field Efficiency	N.A.
Spill Lumens	18447
Luminaire Lumens	95683
Total Efficiency	N.A.
Total Luminaire Watts	767
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	68	85	0
75	467	75	2
65	1187	65	504
55	2943	55	1491
47.5	4972	47.5	3125
42.5	7295	42.5	5279
37.5	11744	37.5	9056
33	17998	33	14792
29	26501	29	21979
25.5	39743	25.5	32978
22.5	56588	22.5	48265
19.5	79517	19.5	69871
17	106985	17	96365
15	136799	15	127988
13	165380	13	158292
11	189225	11	183347
9	208298	9	203691
7	223046	7	219742
5	234404	5	231796
3	239619	3	238518
1	240981	1	240691
0	241019	0	241019
-1	240981	-1	241386
-3	239619	-3	241242
-5	234404	-5	238461
-7	223046	-7	227103
-9	208298	-9	213137
-11	189225	-11	195608
-13	165380	-13	173510
-15	136799	-15	145792
-17	106985	-17	116511
-19.5	79517	-19.5	87051
-22.5	56588	-22.5	60654
-25.5	39743	-25.5	43544
-29	26501	-29	28840
-33	17998	-33	19297
-37.5	11744	-37.5	12761
-42.5	7295	-42.5	7928
-47.5	4972	-47.5	5473
-55	2943	-55	3349
-65	1187	-65	1462
-75	467	-75	651
-85	68	-85	152
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 241386

Beam Edge = 120693 Cd (50% of Max.)

Field Edge = 24138.6 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	3	6	8	8	8	7	6	4	3
75.0	0	8	33	66	91	100	104	102	94	89
65.0	0	14	79	158	238	285	318	347	380	408
55.0	0	23	140	290	455	599	709	827	947	1047
47.5	0	33	191	413	705	998	1256	1650	1795	2102
42.5	0	38	232	503	909	1374	1833	2212	2777	3164
37.5	0	44	271	598	1149	1923	2363	3194	3795	4389
33.0	0	48	304	692	1405	2221	3145	4047	4873	5959
29.0	0	52	334	776	1635	2703	3810	4844	6192	7953
25.5	0	55	358	850	1869	3169	4332	5670	7638	10133
22.5	0	58	378	907	2050	3518	4745	6485	9081	12351
19.5	0	60	396	966	2216	3810	5168	7423	10597	14669
17.0	0	61	409	1010	2345	4022	5496	8208	12037	16567
15.0	0	62	418	1042	2445	4205	5804	8808	13192	18025
13.0	0	64	427	1071	2542	4369	6116	9509	14248	19803
11.0	0	66	436	1098	2634	4514	6406	10125	15284	21351
9.0	0	67	443	1121	2720	4639	6667	10614	16188	22660
7.0	0	67	450	1141	2799	4745	6895	11011	16880	23961
5.0	0	67	459	1157	2852	4832	7088	11313	17406	25220 *
3.0	0	68	462	1175	2909	4921	7255	11539	17766	26172 *
1.0	0	68	465	1183	2932	4955	7282	11710	17959	26498 *
0.0	0	68	467	1187	2943	4972	7295	11744	17998	26501 *
-1.0	0	68	468	1191	2951	4979	7315	11840	18181	26747 *
-3.0	0	69	471	1199	2967	4992	7354	11921	18418	26889 *
-5.0	0	69	474	1198	2947	4951	7260	11846	18177	26207 *
-7.0	0	69	472	1197	2929	4927	7189	11622	17734	25152 *
-9.0	0	70	471	1192	2889	4888	7070	11295	17139	24004
-11.0	0	70	469	1183	2838	4829	6906	10865	16376	22870
-13.0	0	68	467	1172	2779	4751	6694	10309	15476	21537
-15.0	0	67	464	1156	2711	4653	6431	9663	14528	20018
-17.0	0	67	459	1137	2636	4534	6157	9156	13450	18587
-19.5	0	66	453	1109	2531	4391	5891	8454	12079	16749
-22.5	0	64	443	1068	2401	4183	5529	7577	10599	14489
-25.5	0	63	431	1028	2260	3929	5195	6799	9166	12199
-29.0	0	60	414	972	2077	3482	4763	5999	7665	9934
-33.0	0	57	392	906	1868	2962	4193	5242	6301	7638
-37.5	0	53	363	826	1612	2602	3400	4457	5238	6030
-42.5	0	48	326	739	1367	2142	2732	3455	4255	4838
-47.5	0	42	284	651	1156	1670	2155	2693	3106	3625
-55.0	0	31	226	517	869	1196	1428	1721	1981	2230
-65.0	0	20	143	327	548	706	817	938	1054	1139
-75.0	0	12	68	161	269	355	413	464	506	540
-85.0	0	4	17	38	64	83	97	111	121	129
-90.0	0	0	0	0	0	0	0	0	0	0

**IES FLOOD REPORT**  
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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	1	1	1	0	0	0	0	0	0	0
75.0	80	72	63	55	47	40	32	24	16	10
65.0	430	443	459	470	477	484	492	498	502	500
55.0	1161	1228	1283	1325	1348	1363	1389	1420	1449	1473
47.5	2370	2552	2707	2808	2876	2927	2965	3027	3071	3085
42.5	3481	3774	4083	4295	4499	4695	4861	5001	5107	5176
37.5	5025	5613	6308	6865	7256	7712	8123	8477	8715	8856
33.0	7161	8345	9554	10604	11377	12124	12916	13621	14130	14453
29.0	9974	11839	13743	15302	16446	17586	18674	19613	20511	21178
25.5	12903	15472	18101	20242	22241	24137	25718 *	28119 *	30218 *	31580 *
22.5	15772	18971	22685	26275 *	29787 *	33257 *	36319 *	40316 *	43636 *	46055 *
19.5	18666	22876	28685 *	35234 *	40565 *	46170 *	51637 *	57671 *	62275 *	65370 *
17.0	21267	26970 *	35844 *	44474 *	51454 *	59396 *	66796 *	75905 *	83566 *	88404 *
15.0	24042	31429 *	41974 *	52104 *	61653 *	71168 *	82207 *	92735 *	106383 *	116130 *
13.0	26917 *	36131 *	48468 *	60821 *	72008 *	85772 *	100223 *	116186 *	131782 *	144419 *
11.0	29367 *	40417 *	54841 *	69244 *	85158 *	102379 *	121786 *	140116 *	157103 *	170944 *
9.0	32392 *	45183 *	61738 *	79549 *	97052 *	120690 *	142568 *	162811 *	178896 *	192281 *
7.0	35161 *	49296 *	67645 *	88451 *	110265 *	135501 *	160807 *	180653 *	197737 *	208355 *
5.0	37448 *	52580 *	72357 *	95526 *	121197 *	148249 *	174494 *	194629 *	209432 *	221153 *
3.0	39167 *	54956 *	76465 *	101832 *	129849 *	157571 *	182292 *	203132 *	218587 *	228824 *
1.0	39784 *	56426 *	78996 *	106136 *	136250 *	164292 *	188198 *	207406 *	222335 *	234168 *
0.0	39743 *	56588 *	79517 *	106985 *	136799 *	165380 *	189225 *	208298 *	223046 *	234404 *
-1.0	40105 *	56795 *	79526 *	106723 *	135959 *	163944 *	188580 *	208278 *	223009 *	235091 *
-3.0	40113 *	56095 *	78059 *	104231 *	132501 *	161478 *	186466 *	205856 *	220508 *	231090 *
-5.0	38955 *	54500 *	74917 *	99662 *	126879 *	154842 *	180263 *	199800 *	213961 *	224581 *
-7.0	37161 *	51989 *	71664 *	94594 *	118440 *	144203 *	169218 *	188832 *	204241 *	215038 *
-9.0	34744 *	48561 *	66961 *	86694 *	105098 *	129043 *	152505 *	173751 *	189819 *	201948 *
-11.0	31924 *	44157 *	60521 *	76709 *	93359 *	112271 *	133916 *	154297 *	171853 *	183916 *
-13.0	29519 *	40363 *	54484 *	68441 *	80923 *	96629 *	113417 *	132359 *	148266 *	159571 *
-15.0	26894 *	36103 *	48238 *	59691 *	70497 *	81537 *	94888 *	107156 *	121645 *	132365 *
-17.0	24243 *	31865 *	42086 *	52014 *	60142 *	69427 *	78084 *	88406 *	97651 *	105002 *
-19.5	21487	27042 *	34569 *	42493 *	49034 *	55770 *	62229 *	69041 *	74812 *	79348 *
-22.5	18343	22293	27182 *	32411 *	37202 *	42032 *	46475 *	51191 *	55167 *	58222 *
-25.5	15475	18429	21621	24401 *	27522 *	30819 *	33762 *	37003 *	39816 *	41915 *
-29.0	12424	14647	16968	18817	20274	21975	23632	25141 *	26702 *	27961 *
-33.0	9296	10802	12350	13800	14892	15903	16901	17824	18552	19074
-37.5	6883	7725	8671	9435	10000	10699	11328	11868	12230	12495
-42.5	5311	5711	6143	6457	6739	7012	7243	7459	7651	7803
-47.5	4103	4437	4730	4906	5019	5118	5204	5288	5353	5400
-55.0	2427	2564	2704	2846	2951	3047	3135	3211	3275	3326
-65.0	1210	1258	1304	1338	1362	1384	1405	1424	1439	1451
-75.0	570	592	607	617	622	627	633	637	640	645
-85.0	135	139	143	146	148	149	153	153	152	152
-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	0	0	0	0	0	0	0	0	0	0
75.0	7	4	2	4	7	10	16	24	32	40
65.0	505	504	504	504	505	500	502	498	492	484

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**CANDELA TABULATION - (Cont.)**

55.0	1494	1492	1491	1492	1494	1473	1449	1420	1389	1363
47.5	3095	3115	3125	3115	3095	3085	3071	3027	2965	2927
42.5	5270	5276	5279	5276	5270	5176	5107	5001	4861	4695
37.5	9076	9092	9056	9092	9076	8856	8715	8477	8123	7712
33.0	14795	14846	14792	14846	14795	14453	14130	13621	12916	12124
29.0	21727	22015	21979	22015	21727	21178	20511	19613	18674	17586
25.5	32443 *	33083 *	32978 *	33083 *	32443 *	31580 *	30218 *	28119 *	25718 *	24137
22.5	47686 *	48404 *	48265 *	48404 *	47686 *	46055 *	43636 *	40316 *	36319 *	33257 *
19.5	68717 *	69929 *	69871 *	69929 *	68717 *	65370 *	62275 *	57671 *	51637 *	46170 *
17.0	94225 *	95936 *	96365 *	95936 *	94225 *	88404 *	83566 *	75905 *	66796 *	59396 *
15.0	123285 *	125728 *	127988 *	125728 *	123285 *	116130 *	106383 *	92735 *	82207 *	71168 *
13.0	152776 *	155390 *	158292 *	155390 *	152776 *	144419 *	131782 *	116186 *	100223 *	85772 *
11.0	178605 *	181686 *	183347 *	181686 *	178605 *	170944 *	157103 *	140116 *	121786 *	102379 *
9.0	199846 *	203022 *	203691 *	203022 *	199846 *	192281 *	178896 *	162811 *	142568 *	120690 *
7.0	216231 *	219076 *	219742 *	219076 *	216231 *	208355 *	197737 *	180653 *	160807 *	135501 *
5.0	227670 *	231799 *	231796 *	231799 *	227670 *	221153 *	209432 *	194629 *	174494 *	148249 *
3.0	235486 *	238088 *	238518 *	238088 *	235486 *	228824 *	218587 *	203132 *	182292 *	157571 *
1.0	239106 *	240801 *	240691 *	240801 *	239106 *	234168 *	222335 *	207406 *	188198 *	164292 *
0.0	239619 *	240981 *	241019 *	240981 *	239619 *	234404 *	223046 *	208298 *	189225 *	165380 *
-1.0	239496 *	241210 *	241386 *	241210 *	239496 *	235091 *	223009 *	208278 *	188580 *	163944 *
-3.0	238427 *	240888 *	241242 *	240888 *	238427 *	231090 *	220508 *	205856 *	186466 *	161478 *
-5.0	232698 *	238422 *	238461 *	238422 *	232698 *	224581 *	213961 *	199800 *	180263 *	154842 *
-7.0	222917 *	226837 *	227103 *	226837 *	222917 *	215038 *	204241 *	188832 *	169218 *	144203 *
-9.0	209217 *	212805 *	213137 *	212805 *	209217 *	201948 *	189819 *	173751 *	152505 *	129043 *
-11.0	190544 *	195156 *	195608 *	195156 *	190544 *	183916 *	171853 *	154297 *	133916 *	112271 *
-13.0	167206 *	172653 *	173510 *	172653 *	167206 *	159571 *	148266 *	132359 *	113417 *	96629 *
-15.0	139517 *	144305 *	145792 *	144305 *	139517 *	132365 *	121645 *	107156 *	94888 *	81537 *
-17.0	110890 *	114840 *	116511 *	114840 *	110890 *	105002 *	97651 *	88406 *	78084 *	69427 *
-19.5	83276 *	85990 *	87051 *	85990 *	83276 *	79348 *	74812 *	69041 *	62229 *	55770 *
-22.5	60238 *	61035 *	60654 *	61035 *	60238 *	58222 *	55167 *	51191 *	46475 *	42032 *
-25.5	43335 *	43732 *	43544 *	43732 *	43335 *	41915 *	39816 *	37003 *	33762 *	30819 *
-29.0	28811 *	28976 *	28840 *	28976 *	28811 *	27961 *	26702 *	25141 *	23632 *	21975
-33.0	19422	19394	19297	19394	19422	19074	18552	17824	16901	15903
-37.5	12662	12766	12761	12766	12662	12495	12230	11868	11328	10699
-42.5	7956	7937	7928	7937	7956	7803	7651	7459	7243	7012
-47.5	5455	5467	5473	5467	5455	5400	5353	5288	5204	5118
-55.0	3364	3354	3349	3354	3364	3326	3275	3211	3135	3047
-65.0	1462	1462	1462	1462	1462	1451	1439	1424	1405	1384
-75.0	647	650	651	650	647	645	640	637	633	627
-85.0	152	152	152	152	152	152	152	153	153	149
-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	0	0	1	1	1	3	4	6	7	8
75.0	47	55	63	72	80	89	94	102	104	100
65.0	477	470	459	443	430	408	380	347	318	285
55.0	1348	1325	1283	1228	1161	1047	947	827	709	599
47.5	2876	2808	2707	2552	2370	2102	1795	1650	1256	998
42.5	4499	4295	4083	3774	3481	3164	2777	2212	1833	1374
37.5	7256	6865	6308	5613	5025	4389	3795	3194	2363	1923
33.0	11377	10604	9554	8345	7161	5959	4873	4047	3145	2221
29.0	16446	15302	13743	11839	9974	7953	6192	4844	3810	2703
25.5	22241	20242	18101	15472	12903	10133	7638	5670	4332	3169

**IES FLOOD REPORT**  
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**CANDELA TABULATION - (Cont.)**

22.5	29787 *	26275 *	22685	18971	15772	12351	9081	6485	4745	3518
19.5	40565 *	35234 *	28685 *	22876	18666	14669	10597	7423	5168	3810
17.0	51454 *	44474 *	35844 *	26970 *	21267	16567	12037	8208	5496	4022
15.0	61653 *	52104 *	41974 *	31429 *	24042	18025	13192	8808	5804	4205
13.0	72008 *	60821 *	48468 *	36131 *	26917 *	19803	14248	9509	6116	4369
11.0	85158 *	69244 *	54841 *	40417 *	29367 *	21351	15284	10125	6406	4514
9.0	97052 *	79549 *	61738 *	45183 *	32392 *	22660	16188	10614	6667	4639
7.0	110265 *	88451 *	67645 *	49296 *	35161 *	23961	16880	11011	6895	4745
5.0	121197 *	95526 *	72357 *	52580 *	37448 *	25220 *	17406	11313	7088	4832
3.0	129849 *	101832 *	76465 *	54956 *	39167 *	26172 *	17766	11539	7255	4921
1.0	136250 *	106136 *	78996 *	56426 *	39784 *	26498 *	17959	11710	7282	4955
0.0	136799 *	106985 *	79517 *	56588 *	39743 *	26501 *	17998	11744	7295	4972
-1.0	135959 *	106723 *	79526 *	56795 *	40105 *	26747 *	18181	11840	7315	4979
-3.0	132501 *	104231 *	78059 *	56095 *	40113 *	26889 *	18418	11921	7354	4992
-5.0	126879 *	99662 *	74917 *	54500 *	38955 *	26207 *	18177	11846	7260	4951
-7.0	118440 *	94594 *	71664 *	51989 *	37161 *	25152 *	17734	11622	7189	4927
-9.0	105098 *	86694 *	66961 *	48561 *	34744 *	24004	17139	11295	7070	4888
-11.0	93359 *	76709 *	60521 *	44157 *	31924 *	22870	16376	10865	6906	4829
-13.0	80923 *	68441 *	54484 *	40363 *	29519 *	21537	15476	10309	6694	4751
-15.0	70497 *	59691 *	48238 *	36103 *	26894 *	20018	14528	9663	6431	4653
-17.0	60142 *	52014 *	42086 *	31865 *	24243 *	18587	13450	9156	6157	4534
-19.5	49034 *	42493 *	34569 *	27042 *	21487	16749	12079	8454	5891	4391
-22.5	37202 *	32411 *	27182 *	22293	18343	14489	10599	7577	5529	4183
-25.5	27522 *	24401 *	21621	18429	15475	12199	9166	6799	5195	3929
-29.0	20274	18817	16968	14647	12424	9934	7665	5999	4763	3482
-33.0	14892	13800	12350	10802	9296	7638	6301	5242	4193	2962
-37.5	10000	9435	8671	7725	6883	6030	5238	4457	3400	2602
-42.5	6739	6457	6143	5711	5311	4838	4255	3455	2732	2142
-47.5	5019	4906	4730	4437	4103	3625	3106	2693	2155	1670
-55.0	2951	2846	2704	2564	2427	2230	1981	1721	1428	1196
-65.0	1362	1338	1304	1258	1210	1139	1054	938	817	706
-75.0	622	617	607	592	570	540	506	464	413	355
-85.0	148	146	143	139	135	129	121	111	97	83
-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	8	8	6	3	0
75.0	91	66	33	8	0
65.0	238	158	79	14	0
55.0	455	290	140	23	0
47.5	705	413	191	33	0
42.5	909	503	232	38	0
37.5	1149	598	271	44	0
33.0	1405	692	304	48	0
29.0	1635	776	334	52	0
25.5	1869	850	358	55	0
22.5	2050	907	378	58	0
19.5	2216	966	396	60	0
17.0	2345	1010	409	61	0
15.0	2445	1042	418	62	0
13.0	2542	1071	427	64	0
11.0	2634	1098	436	66	0
9.0	2720	1121	443	67	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2799	1141	450	67	0
<b>5.0</b>	2852	1157	459	67	0
<b>3.0</b>	2909	1175	462	68	0
<b>1.0</b>	2932	1183	465	68	0
<b>0.0</b>	2943	1187	467	68	0
<b>-1.0</b>	2951	1191	468	68	0
<b>-3.0</b>	2967	1199	471	69	0
<b>-5.0</b>	2947	1198	474	69	0
<b>-7.0</b>	2929	1197	472	69	0
<b>-9.0</b>	2889	1192	471	70	0
<b>-11.0</b>	2838	1183	469	70	0
<b>-13.0</b>	2779	1172	467	68	0
<b>-15.0</b>	2711	1156	464	67	0
<b>-17.0</b>	2636	1137	459	67	0
<b>-19.5</b>	2531	1109	453	66	0
<b>-22.5</b>	2401	1068	443	64	0
<b>-25.5</b>	2260	1028	431	63	0
<b>-29.0</b>	2077	972	414	60	0
<b>-33.0</b>	1868	906	392	57	0
<b>-37.5</b>	1612	826	363	53	0
<b>-42.5</b>	1367	739	326	48	0
<b>-47.5</b>	1156	651	284	42	0
<b>-55.0</b>	869	517	226	31	0
<b>-65.0</b>	548	327	143	20	0
<b>-75.0</b>	269	161	68	12	0
<b>-85.0</b>	64	38	17	4	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 47841.57

Total Field Lumens (one side of beam only) = 38617.9

\* 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	0.02	0.03	0.04	0.06	0.08	0.11	0.13	0.15	0.22
65	0.77	1.55	1.55	1.56	1.57	1.57	1.56	1.55	1.54	1.89
55	3.04	6.08	6.03	5.94	5.84	5.70	5.55	5.43	5.30	6.39
47.5	5.27	10.50	10.42	10.31	10.14	9.90	9.66	9.44	9.18	11.01
42.5	6.39	12.75	12.63	12.45	12.22	11.89	11.51	11.08	10.60	12.56
37.5	10.93	21.85	21.56	21.09	20.59	19.84	18.91	17.85	16.77	19.48
33	16.38	32.75	32.26	31.46	30.50	29.11	27.40	25.58	23.78	27.12
29	22.43	44.68	43.85	42.58	40.95	38.89	36.53	34.01	31.46	35.58
25.5	29.33 *	58.21 *	56.86 *	54.86 *	51.97 *	48.36	44.90	41.59	38.04	42.64
22.5	37.18 *	73.80 *	71.91 *	68.84 *	64.38 *	58.71 *	53.38 *	48.51 *	43.28 *	47.35
19.5	54.02 *	107.19 *	103.84 *	98.76 *	92.25 *	83.67 *	74.81 *	66.40 *	57.91 *	61.22 *
17	63.22 *	125.12 *	120.30 *	113.45 *	105.35 *	94.50 *	83.42 *	73.00 *	62.85 *	65.19 *
15	67.93 *	133.69 *	128.24 *	119.50 *	108.16 *	95.28 *	83.30 *	72.02 *	61.40 *	63.06 *
13	86.42 *	169.61 *	163.05 *	151.08 *	134.86 *	117.40 *	101.11 *	85.89 *	72.20 *	73.54 *
11	103.37 *	203.49 *	196.52 *	183.05 *	164.45 *	143.48 *	122.21 *	102.06 *	84.10 *	84.39 *
9	117.54 *	232.32 *	225.37 *	211.82 *	192.72 *	170.17 *	145.23 *	119.78 *	96.92 *	95.96 *
7	128.78 *	255.15 *	248.17 *	235.46 *	217.21 *	194.04 *	166.72 *	136.99 *	109.89 *	107.53 *
5	137.44 *	272.38 *	265.39 *	253.46 *	236.02 *	213.16 *	184.44 *	152.27 *	121.64 *	117.15 *
3	143.19 *	284.03 *	277.46 *	265.97 *	249.09 *	226.34 *	197.42 *	164.58 *	131.29 *	125.18 *
1	145.92 *	290.26 *	284.89 *	273.83 *	256.83 *	234.29 *	206.28 *	173.77 *	138.81 *	131.41 *
0	73.37 *	146.20 *	143.92 *	138.43 *	129.87 *	118.96 *	105.34 *	89.07 *	71.18 *	67.19 *
-1	73.45 *	146.32 *	144.12 *	138.68 *	130.10 *	119.15 *	105.34 *	88.97 *	71.22 *	67.39 *
	146.93 *	292.25 *	286.88 *	275.58 *	258.70 *	236.73 *	208.70 *	175.52 *	140.37 *	133.26 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	146.06 *	289.33 *	281.62 *	269.65 *	253.41 *	231.70 *	203.51 *	170.15 *	135.65 *	129.04 *
<b>-5</b>	141.77 *	280.33 *	272.03 *	259.86 *	243.37 *	221.41 *	193.23 *	160.89 *	128.71 *	123.24 *
<b>-7</b>	134.01 *	265.38 *	258.01 *	245.69 *	228.23 *	205.27 *	177.27 *	146.83 *	118.53 *	115.68 *
<b>-9</b>	124.39 *	245.88 *	238.72 *	226.45 *	208.05 *	184.32 *	157.24 *	129.98 *	105.95 *	105.18 *
<b>-11</b>	112.23 *	220.87 *	213.08 *	201.03 *	183.03 *	160.18 *	135.93 *	113.25 *	93.53 *	94.07 *
<b>-13</b>	96.90 *	189.86 *	181.91 *	170.20 *	153.66 *	134.33 *	115.15 *	97.41 *	81.85 *	83.47 *
<b>-15</b>	79.42 *	155.12 *	148.21 *	138.34 *	125.14 *	110.55 *	96.52 *	83.23 *	70.96 *	73.05 *
<b>-17</b>	76.99 *	150.30 *	143.77 *	135.11 *	124.39 *	111.65 *	98.88 *	86.59 *	74.55 *	77.36 *
<b>-19.5</b>	67.33 *	132.67 *	128.12 *	121.57 *	113.21 *	103.01 *	92.29 *	81.59 *	70.77 *	74.12 *
<b>-22.5</b>	47.74 *	95.13 *	92.85 *	88.66 *	82.88 *	75.79 *	68.42 *	60.99 *	53.38 *	57.28 *
<b>-25.5</b>	38.67 *	77.17 *	75.52 *	72.31 *	67.92 *	62.75 *	57.45 *	52.03 *	46.64	51.77
<b>-29</b>	29.40	58.82 *	57.90	55.91	53.22	50.09	46.72	43.18	39.69	44.79
<b>-33</b>	22.01	44.00	43.52	42.50	41.04	39.09	36.76	34.24	31.71	36.01
<b>-37.5</b>	15.76	31.45	31.08	30.43	29.57	28.42	27.03	25.45	23.89	27.76
<b>-42.5</b>	10.21	20.41	20.22	19.85	19.42	18.89	18.31	17.65	16.92	20.10
<b>-47.5</b>	10.08	20.14	19.99	19.71	19.37	18.94	18.44	17.88	17.26	20.59
<b>-55</b>	7.33	14.68	14.59	14.38	14.10	13.76	13.36	12.92	12.44	14.81
<b>-65</b>	3.22	6.42	6.39	6.32	6.24	6.15	6.03	5.90	5.77	6.99
<b>-75</b>	1.22	2.44	2.42	2.41	2.39	2.36	2.33	2.28	2.24	2.74
<b>-85</b>	0.12	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.26
<b>-90</b>										
<b>Total</b>	2638.12	5220.81	5075.43	4828.82	4482.7	4050.14	3558.91	3038.16	2530.55	2555.03

**Vert. Horizontal Angles**

<b>Angles</b>	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.02
<b>85</b>	0.29	0.32	0.41	0.50	0.58	0.64	0.59	0.74	0.66	0.29
<b>75</b>	2.21	2.14	2.39	2.53	2.58	2.54	2.17	2.55	2.10	0.87
<b>65</b>	7.28	6.81	7.22	7.26	7.00	6.42	5.14	5.63	4.34	1.74
<b>55</b>	12.43	11.44	11.87	11.53	10.95	9.71	7.19	7.39	5.31	2.02

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	13.99	12.71	13.17	12.84	11.80	10.13	7.35	7.12	4.81	1.74
<b>42.5</b>										
	21.09	18.67	19.02	18.44	16.76	14.00	10.08	9.57	6.01	2.09
<b>37.5</b>										
	28.62	24.55	24.02	22.34	20.03	16.73	11.69	10.77	6.58	2.18
<b>33</b>										
	37.09	31.15	29.42	26.08	22.33	18.48	12.79	11.38	6.86	2.19
<b>29</b>										
	44.15	36.66	33.97	29.16	23.84	19.04	13.20	11.72	6.83	2.11
<b>25.5</b>										
	48.13	39.52	36.36	30.70	24.24	18.57	12.73	11.37	6.48	1.95
<b>22.5</b>										
	59.64	47.76	43.68	36.57	28.19	20.84	13.92	12.43	7.00	2.07
<b>19.5</b>										
	60.98 *	46.84	42.15	35.16	26.77	19.17	12.45	11.07	6.21	1.81
<b>17</b>										
	58.10 *	43.29 *	37.86	31.23	23.64	16.51	10.51	9.30	5.20	1.50
<b>15</b>										
	67.39 *	49.47 *	42.07	34.08	25.60	17.63	11.03	9.69	5.40	1.54
<b>13</b>										
	76.71 *	55.44 *	46.17 *	36.91	27.51	18.75	11.52	10.05	5.59	1.58
<b>11</b>										
	86.24 *	61.50 *	50.12 *	39.41	29.22	19.72	11.96	10.37	5.76	1.61
<b>9</b>										
	95.48 *	67.63 *	54.10 *	41.61	30.60	20.52	12.35	10.65	5.92	1.64
<b>7</b>										
	103.17 *	72.83 *	57.71 *	43.58	31.68	21.17	12.68	10.88	6.05	1.67
<b>5</b>										
	109.34 *	76.86 *	60.66 *	45.20	32.47	21.69	12.97	11.08	6.16	1.69
<b>3</b>										
	113.82 *	79.44 *	62.37 *	46.15	33.00	22.04	13.14	11.23	6.24	1.71
<b>1</b>										
	57.91 *	40.18 *	31.40 *	23.22	16.62	11.09	6.60	5.65	3.14	0.86
<b>0</b>										
	58.10 *	40.32 *	31.53 *	23.35	16.72	11.14	6.61	5.66	3.15	0.86
<b>-1</b>										
	115.37 *	80.60 *	63.43 *	47.11	33.78	22.41	13.26	11.35	6.32	1.73
<b>-3</b>										
	112.42 *	79.16 *	62.63 *	46.83	33.78	22.38	13.22	11.33	6.32	1.74
<b>-5</b>										
	107.94 *	76.21 *	60.40 *	45.56	33.23	22.11	13.10	11.26	6.29	1.74
<b>-7</b>										
	102.01 *	71.98 *	57.36 *	43.87	32.34	21.68	12.96	11.17	6.24	1.73
<b>-9</b>										
	93.92 *	66.52 *	53.80 *	41.97	31.15	21.07	12.75	11.03	6.16	1.72
<b>-11</b>										
	85.10 *	60.92 *	50.16 *	39.82	29.67	20.28	12.48	10.86	6.06	1.71
<b>-13</b>										
	76.43 *	55.46 *	46.42 *	37.36	27.97	19.30	12.13	10.64	5.95	1.70
<b>-15</b>										
	67.52 *	49.71 *	42.52	34.76	26.19	18.32	11.72	10.38	5.81	1.67
<b>-17</b>										
	72.28 *	54.59 *	48.02	39.72	30.17	21.62	14.11	12.59	7.05	2.05
<b>-19.5</b>										
	71.07 *	55.82	50.51	42.23	32.49	24.01	16.14	14.47	8.11	2.40

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	57.28	46.67	43.01	36.38	28.66	21.96	15.21	13.69	7.71	2.32
<b>-25.5</b>	53.49	44.54	41.49	35.60	29.01	23.22	16.36	14.69	8.43	2.59
<b>-29</b>	46.72	39.37	37.24	32.93	28.21	23.56	16.58	14.85	8.86	2.79
<b>-33</b>	37.95	32.59	31.82	29.61	26.74	22.69	15.94	14.54	8.92	2.91
<b>-37.5</b>	30.12	26.74	27.32	26.58	24.35	20.48	14.64	13.80	8.64	2.93
<b>-42.5</b>	22.42	20.41	21.18	20.65	18.90	16.09	11.71	11.32	7.44	2.60
<b>-47.5</b>	23.09	21.18	22.01	21.42	19.94	17.49	13.02	13.10	9.11	3.27
<b>-55</b>	16.70	15.57	16.60	16.72	15.93	14.30	11.16	11.86	8.60	3.16
<b>-65</b>	8.02	7.58	8.20	8.46	8.29	7.67	6.17	6.71	4.96	1.82
<b>-75</b>	3.16	3.00	3.26	3.38	3.36	3.16	2.55	2.75	2.02	0.74
<b>-85</b>	0.30	0.29	0.31	0.33	0.32	0.30	0.24	0.26	0.19	0.07
<b>-90</b>										
<b>Total</b>	2365.47	1774.43	1525.35	1249.16	976.61	720.69	474.17	428.95	255.01	79.13

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.01	0.00	0.16	
<b>85</b>				
	0.07	0.00	5.91	
<b>75</b>				
	0.18	0.00	37.38	
<b>65</b>				
	0.34	0.01	114.48	
<b>55</b>				
	0.38	0.01	186.07	
<b>47.5</b>				
	0.33	0.01	210.07	
<b>42.5</b>				
	0.39	0.01	325.00	
<b>37.5</b>				
	0.40	0.01	444.25	
<b>33</b>				
	0.39	0.01	569.13	
<b>29</b>				
	0.37	0.01	687.83	
<b>25.5</b>				
	0.34	0.01	797.70	
<b>22.5</b>				
	0.35	0.01	1072.53	
<b>19.5</b>				
	0.31	0.01	1169.32	
<b>17</b>				
	0.25	0.00	1169.98	

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

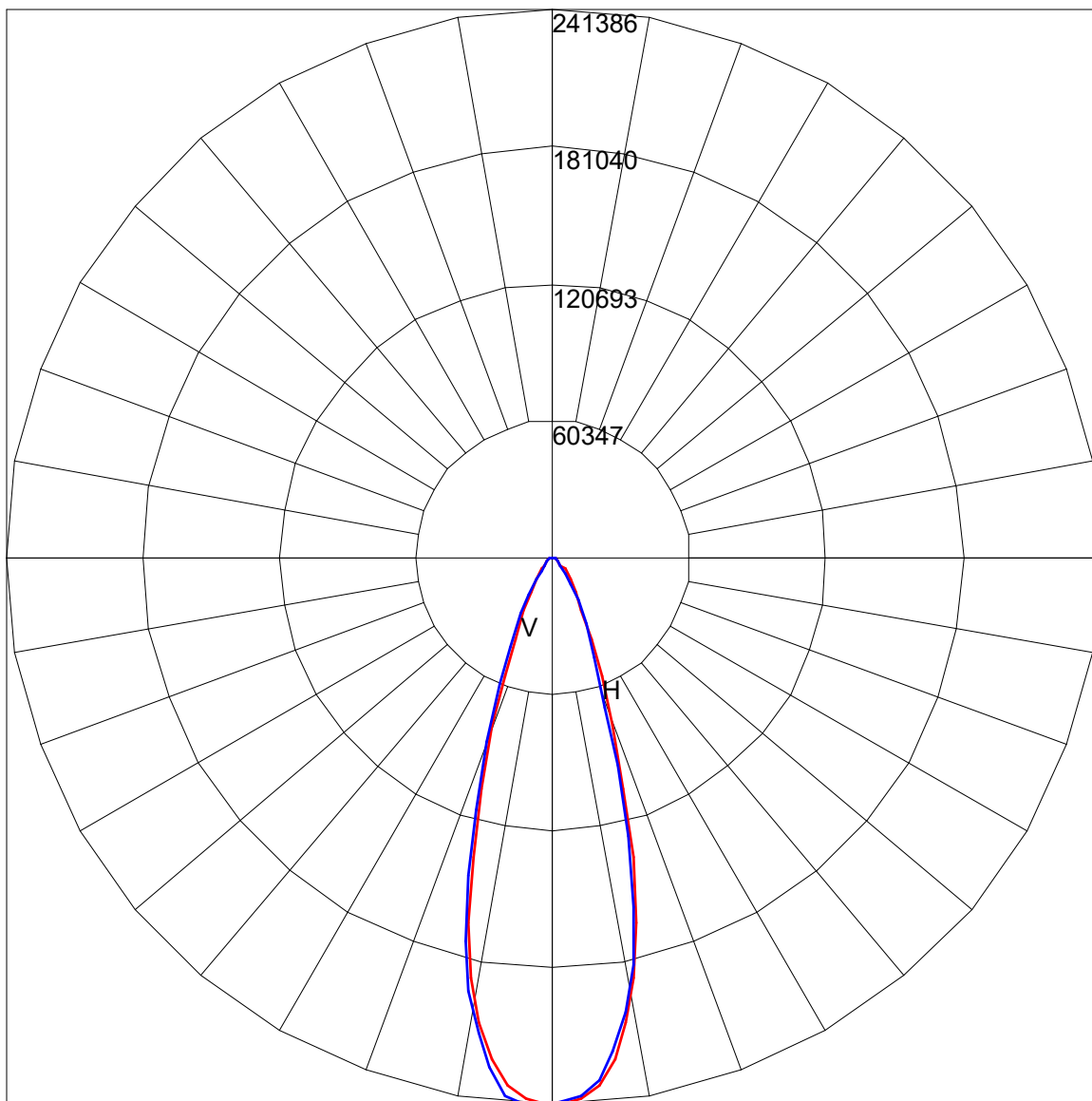
<b>15</b>	0.26	0.00	1419.32
<b>13</b>	0.26	0.00	1677.6
<b>11</b>	0.27	0.00	1923.99
<b>9</b>	0.27	0.00	2140.72
<b>7</b>	0.28	0.00	2315.04
<b>5</b>	0.28	0.00	2442.97
<b>3</b>	0.28	0.00	2525.71
<b>1</b>	0.14	0.00	1280.32
<b>0</b>	0.14	0.00	1282.33
<b>-1</b>	0.28	0.00	2550.57
<b>-3</b>	0.29	0.00	2500.21
<b>-5</b>	0.29	0.00	2402.97
<b>-7</b>	0.29	0.00	2256.55
<b>-9</b>	0.29	0.00	2066.57
<b>-11</b>	0.28	0.00	1844.55
<b>-13</b>	0.28	0.00	1598.39
<b>-15</b>	0.28	0.00	1349.42
<b>-17</b>	0.35	0.01	1382.15
<b>-19.5</b>	0.41	0.01	1302.36
<b>-22.5</b>	0.40	0.01	996.39
<b>-25.5</b>	0.45	0.01	872.10
<b>-29</b>	0.49	0.01	731.33
<b>-33</b>	0.51	0.01	595.11
<b>-37.5</b>	0.52	0.01	466.95
<b>-42.5</b>	0.46	0.01	335.15
<b>-47.5</b>	0.58	0.01	346.63
<b>-55</b>	0.55	0.01	263.52
<b>-65</b>	0.32	0.01	127.63

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-MF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

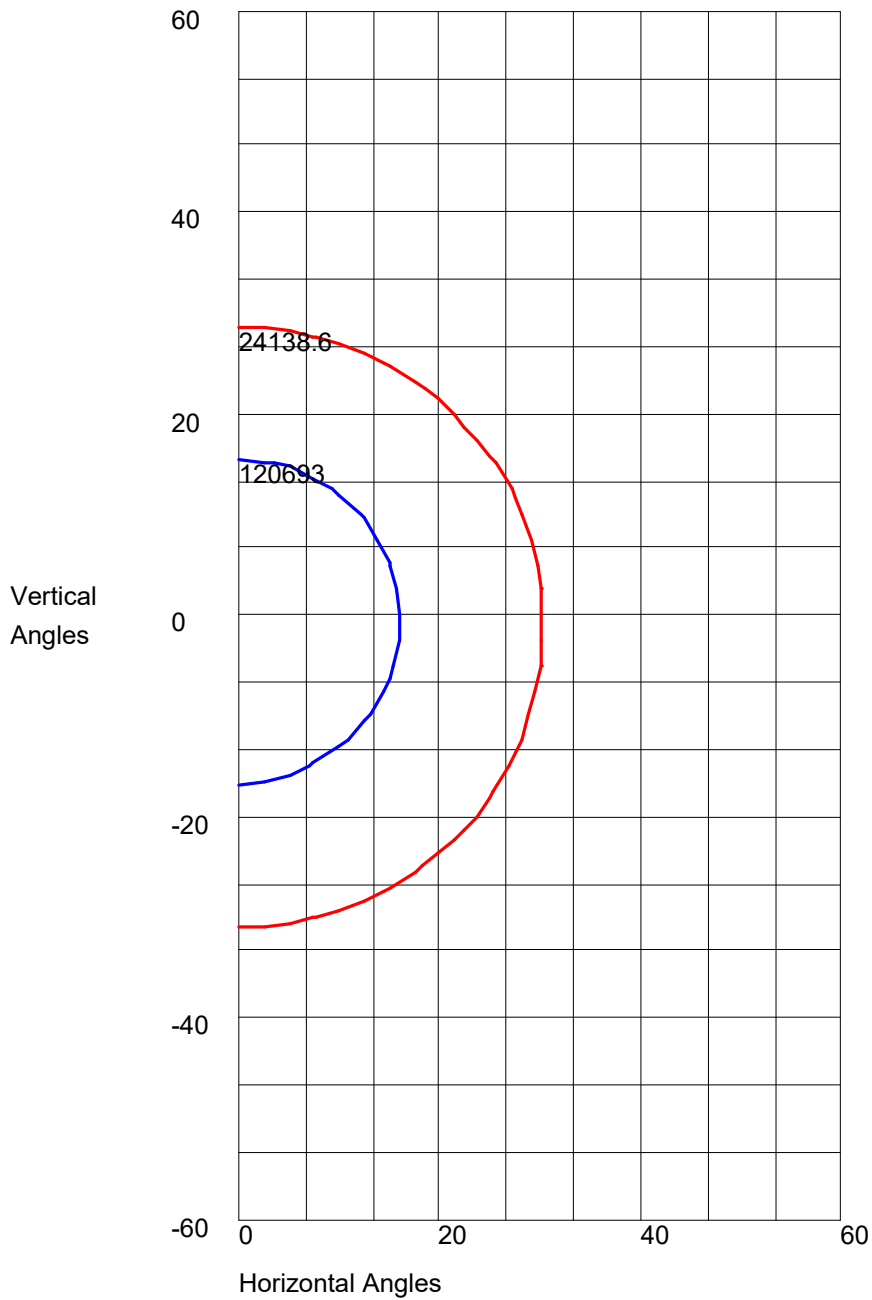
<b>-75</b>	0.13	0.00	50.36
<b>-85</b>	0.01	0.00	4.83
<b>-90</b>			
<b>Total</b>	13.71	0.23	47841.58

AXIAL CANDELA DISPLAY



Maximum Candela = 241386 Located At Horizontal Angle = 0, Vertical Angle = -1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 241386 Located At Horizontal Angle = 0, Vertical Angle = -1  
50% Maximum Candela = 120693  
10% Maximum Candela = 24138.6