



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13130  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 12/16/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-85L-MF-50-GS  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

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

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	200793
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	37258
Beam Efficiency	N.A.
Field Lumens	64247
Field Efficiency	N.A.
Spill Lumens	15345
Luminaire Lumens	79592
Total Efficiency	N.A.
Total Luminaire Watts	572.4
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	57	85	0
75	388	75	2
65	988	65	419
55	2448	55	1240
47.5	4136	47.5	2599
42.5	6069	42.5	4391
37.5	9769	37.5	7533
33	14971	33	12304
29	22045	29	18283
25.5	33059	25.5	27432
22.5	47072	22.5	40149
19.5	66144	19.5	58121
17	88993	17	80159
15	113793	15	106464
13	137568	13	131672
11	157404	11	152513
9	173269	9	169436
7	185537	7	182789
5	194984	5	192816
3	199322	3	198407
1	200456	1	200215
0	200488	0	200488
-1	200456	-1	200793
-3	199322	-3	200673
-5	194984	-5	198359
-7	185537	-7	188911
-9	173269	-9	177294
-11	157404	-11	162712
-13	137568	-13	144331
-15	113793	-15	121275
-17	88993	-17	96918
-19.5	66144	-19.5	72412
-22.5	47072	-22.5	50454
-25.5	33059	-25.5	36221
-29	22045	-29	23990
-33	14971	-33	16052
-37.5	9769	-37.5	10615
-42.5	6069	-42.5	6595
-47.5	4136	-47.5	4553
-55	2448	-55	2786
-65	988	-65	1216
-75	388	-75	542
-85	57	-85	127
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 200793

Beam Edge = 100396.5 Cd (50% of Max.)

Field Edge = 20079.3 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	2	5	6	7	7	6	5	4	3
75.0	0	7	27	55	76	83	86	84	78	73
65.0	0	11	65	131	198	237	265	289	317	340
55.0	0	19	116	241	378	498	589	688	788	871
47.5	0	27	159	344	586	830	1045	1372	1494	1749
42.5	0	32	193	418	756	1143	1525	1840	2310	2632
37.5	0	36	225	498	956	1600	1966	2656	3157	3651
33.0	0	40	253	576	1168	1848	2615	3366	4053	4957
29.0	0	43	278	646	1359	2248	3169	4029	5150	6616
25.5	0	46	298	707	1555	2636	3604	4717	6353	8429
22.5	0	48	314	755	1706	2927	3947	5394	7554	10275
19.5	0	50	329	803	1844	3169	4299	6175	8815	12202
17.0	0	51	340	840	1951	3345	4571	6828	10013	13782
15.0	0	52	348	867	2034	3498	4828	7326	10974	14994
13.0	0	53	355	891	2115	3634	5088	7910	11852	16473
11.0	0	55	362	914	2191	3754	5329	8422	12714	17760
9.0	0	56	368	933	2263	3858	5545	8829	13466	18849
7.0	0	56	374	949	2328	3947	5735	9159	14042	19931
5.0	0	56	381	963	2373	4019	5895	9411	14479	20979 *
3.0	0	57	384	978	2420	4093	6035	9599	14779	21770 *
1.0	0	57	387	985	2439	4122	6058	9741	14939	22042 *
0.0	0	57	388	988	2448	4136	6069	9769	14971	22045 *
-1.0	0	57	389	991	2455	4142	6085	9848	15124	22249 *
-3.0	0	57	392	998	2468	4153	6117	9916	15320	22367 *
-5.0	0	58	394	997	2451	4119	6039	9854	15120	21800 *
-7.0	0	58	392	996	2436	4098	5980	9668	14751	20922 *
-9.0	0	58	392	992	2403	4066	5881	9395	14256	19967
-11.0	0	59	390	984	2361	4017	5744	9038	13622	19024
-13.0	0	57	388	975	2311	3952	5569	8576	12874	17915
-15.0	0	56	386	962	2255	3870	5350	8038	12085	16652
-17.0	0	56	382	946	2192	3771	5122	7617	11188	15462
-19.5	0	55	377	922	2106	3652	4901	7033	10048	13932
-22.5	0	54	368	888	1997	3480	4599	6302	8817	12052
-25.5	0	52	358	855	1880	3269	4322	5655	7624	10148
-29.0	0	50	345	808	1728	2897	3962	4991	6376	8263
-33.0	0	48	326	753	1554	2464	3487	4360	5241	6353
-37.5	0	44	302	687	1341	2164	2828	3707	4357	5016
-42.5	0	40	271	614	1137	1782	2272	2874	3540	4024
-47.5	0	35	236	541	962	1389	1793	2240	2583	3016
-55.0	0	26	188	430	723	994	1188	1431	1648	1855
-65.0	0	17	119	272	456	588	680	780	877	947
-75.0	0	10	56	134	223	296	344	386	421	449
-85.0	0	3	14	31	53	69	81	92	101	107
-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	1	1	1	0	0	0	0	0	0	0
75.0	67	60	53	45	39	33	27	20	13	8
65.0	358	369	382	391	397	403	409	414	417	416
55.0	965	1021	1067	1102	1121	1134	1155	1181	1205	1225
47.5	1972	2123	2251	2335	2392	2435	2466	2518	2555	2566
42.5	2896	3140	3397	3573	3742	3905	4043	4159	4248	4305
37.5	4180	4669	5247	5710	6036	6415	6757	7052	7250	7367
33.0	5957	6942	7947	8820	9463	10085	10744	11330	11753	12022
29.0	8297	9848	11431	12729	13680	14628	15534	16314	17062	17616
25.5	10734	12871	15057	16838	18501	20078	21393 *	23390 *	25136 *	26269 *
22.5	13120	15780	18870	21857 *	24778 *	27665 *	30211 *	33536 *	36298 *	38310 *
19.5	15527	19028	23861 *	29309 *	33744 *	38406 *	42953 *	47972 *	51802 *	54377 *
17.0	17690	22434 *	29816 *	36995 *	42801 *	49408 *	55564 *	63140 *	69512 *	73537 *
15.0	19998	26144 *	34915 *	43342 *	51285 *	59200 *	68383 *	77140 *	88492 *	96600 *
13.0	22390 *	30055 *	40317 *	50593 *	59898 *	71348 *	83369 *	96648 *	109620 *	120132 *
11.0	24428 *	33619 *	45619 *	57599 *	70837 *	85162 *	101306 *	116553 *	130684 *	142197 *
9.0	26944 *	37584 *	51356 *	66171 *	80731 *	100394 *	118593 *	135432 *	148811 *	159946 *
7.0	29248 *	41006 *	56270 *	73576 *	91722 *	112714 *	133764 *	150273 *	164484 *	173316 *
5.0	31151 *	43738 *	60189 *	79462 *	100815 *	123318 *	145149 *	161899 *	174212 *	183962 *
3.0	32580 *	45714 *	63605 *	84707 *	108012 *	131072 *	151637 *	168972 *	181827 *	190343 *
1.0	33094 *	46937 *	65711 *	88287 *	113338 *	136664 *	156550 *	172527 *	184945 *	194788 *
0.0	33059 *	47072 *	66144 *	88993 *	113793 *	137568 *	157404 *	173269 *	185537 *	194984 *
-1.0	33361 *	47244 *	66152 *	88775 *	113095 *	136374 *	156867 *	173252 *	185506 *	195556 *
-3.0	33367 *	46662 *	64932 *	86703 *	110218 *	134322 *	155108 *	171237 *	183426 *	192228 *
-5.0	32404 *	45335 *	62318 *	82902 *	105542 *	128802 *	149949 *	166200 *	177980 *	186814 *
-7.0	30911 *	43246 *	59613 *	78687 *	98522 *	119953 *	140761 *	157077 *	169894 *	178876 *
-9.0	28901 *	40394 *	55701 *	72115 *	87423 *	107342 *	126858 *	144532 *	157897 *	167987 *
-11.0	26556 *	36731 *	50343 *	63809 *	77659 *	93390 *	111395 *	128349 *	142953 *	152987 *
-13.0	24555 *	33575 *	45321 *	56932 *	67314 *	80379 *	94344 *	110101 *	123333 *	132737 *
-15.0	22371 *	30032 *	40126 *	49653 *	58642 *	67826 *	78931 *	89136 *	101188 *	110105 *
-17.0	20166 *	26507 *	35009 *	43267 *	50028 *	57752 *	64953 *	73539 *	81229 *	87343 *
-19.5	17873	22494 *	28756 *	35347 *	40789 *	46391 *	51764 *	57430 *	62231 *	66005 *
-22.5	15258	18544	22610 *	26960 *	30946 *	34964 *	38659 *	42582 *	45889 *	48431 *
-25.5	12872	15329	17985	20297 *	22893 *	25636 *	28084 *	30781 *	33120 *	34866 *
-29.0	10334	12183	14114	15652	16865	18279	19658	20913 *	22212 *	23258 *
-33.0	7733	8986	10273	11479	12388	13229	14058	14827	15432	15867
-37.5	5725	6426	7213	7848	8319	8900	9423	9872	10174	10395
-42.5	4418	4751	5110	5371	5606	5833	6025	6205	6365	6491
-47.5	3414	3691	3935	4081	4175	4258	4328	4399	4453	4491
-55.0	2019	2133	2249	2368	2455	2535	2608	2671	2724	2767
-65.0	1006	1046	1085	1113	1133	1151	1169	1184	1197	1207
-75.0	474	492	505	513	517	522	526	530	533	537
-85.0	113	116	119	121	123	124	128	127	127	127
-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	6	3	2	3	6	8	13	20	27	33
65.0	420	419	419	419	420	416	417	414	409	403

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**CANDELA TABULATION - (Cont.)**

55.0	1243	1241	1240	1241	1243	1225	1205	1181	1155	1134
47.5	2574	2591	2599	2591	2574	2566	2555	2518	2466	2435
42.5	4384	4389	4391	4389	4384	4305	4248	4159	4043	3905
37.5	7551	7564	7533	7564	7551	7367	7250	7052	6757	6415
33.0	12307	12349	12304	12349	12307	12022	11753	11330	10744	10085
29.0	18073	18313	18283	18313	18073	17616	17062	16314	15534	14628
25.5	26987 *	27519 *	27432 *	27519 *	26987 *	26269 *	25136 *	23390 *	21393 *	20078
22.5	39667 *	40264 *	40149 *	40264 *	39667 *	38310 *	36298 *	33536 *	30211 *	27665 *
19.5	57161 *	58169 *	58121 *	58169 *	57161 *	54377 *	51802 *	47972 *	42953 *	38406 *
17.0	78380 *	79802 *	80159 *	79802 *	78380 *	73537 *	69512 *	63140 *	55564 *	49408 *
15.0	102553 *	104584 *	106464 *	104584 *	102553 *	96600 *	88492 *	77140 *	68383 *	59200 *
13.0	127084 *	129258 *	131672 *	129258 *	127084 *	120132 *	109620 *	96648 *	83369 *	71348 *
11.0	148570 *	151132 *	152513 *	151132 *	148570 *	142197 *	130684 *	116553 *	101306 *	85162 *
9.0	166238 *	168880 *	169436 *	168880 *	166238 *	159946 *	148811 *	135432 *	118593 *	100394 *
7.0	179867 *	182235 *	182789 *	182235 *	179867 *	173316 *	164484 *	150273 *	133764 *	112714 *
5.0	189384 *	192818 *	192816 *	192818 *	189384 *	183962 *	174212 *	161899 *	145149 *	123318 *
3.0	195885 *	198049 *	198407 *	198049 *	195885 *	190343 *	181827 *	168972 *	151637 *	131072 *
1.0	198896 *	200306 *	200215 *	200306 *	198896 *	194788 *	184945 *	172527 *	156550 *	136664 *
0.0	199322 *	200456 *	200488 *	200456 *	199322 *	194984 *	185537 *	173269 *	157404 *	137568 *
-1.0	199220 *	200647 *	200793 *	200647 *	199220 *	195556 *	185506 *	173252 *	156867 *	136374 *
-3.0	198332 *	200379 *	200673 *	200379 *	198332 *	192228 *	183426 *	171237 *	155108 *	134322 *
-5.0	193566 *	198328 *	198359 *	198328 *	193566 *	186814 *	177980 *	166200 *	149949 *	128802 *
-7.0	185429 *	188690 *	188911 *	188690 *	185429 *	178876 *	169894 *	157077 *	140761 *	119953 *
-9.0	174033 *	177017 *	177294 *	177017 *	174033 *	167987 *	157897 *	144532 *	126858 *	107342 *
-11.0	158501 *	162337 *	162712 *	162337 *	158501 *	152987 *	142953 *	128349 *	111395 *	93390 *
-13.0	139088 *	143618 *	144331 *	143618 *	139088 *	132737 *	123333 *	110101 *	94344 *	80379 *
-15.0	116054 *	120037 *	121275 *	120037 *	116054 *	110105 *	101188 *	89136 *	78931 *	67826 *
-17.0	92241 *	95528 *	96918 *	95528 *	92241 *	87343 *	81229 *	73539 *	64953 *	57752 *
-19.5	69272 *	71529 *	72412 *	71529 *	69272 *	66005 *	62231 *	57430 *	51764 *	46391 *
-22.5	50108 *	50771 *	50454 *	50771 *	50108 *	48431 *	45889 *	42582 *	38659 *	34964 *
-25.5	36047 *	36378 *	36221 *	36378 *	36047 *	34866 *	33120 *	30781 *	28084 *	25636 *
-29.0	23966 *	24103 *	23990 *	24103 *	23966 *	23258 *	22212 *	20913 *	19658	18279
-33.0	16157	16132	16052	16132	16157	15867	15432	14827	14058	13229
-37.5	10533	10620	10615	10620	10533	10395	10174	9872	9423	8900
-42.5	6618	6603	6595	6603	6618	6491	6365	6205	6025	5833
-47.5	4538	4548	4553	4548	4538	4491	4453	4399	4328	4258
-55.0	2798	2790	2786	2790	2798	2767	2724	2671	2608	2535
-65.0	1216	1216	1216	1216	1216	1207	1197	1184	1169	1151
-75.0	539	541	542	541	539	537	533	530	526	522
-85.0	127	127	127	127	127	127	127	127	128	124
-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	0	0	1	1	1	3	4	5	6	7
75.0	39	45	53	60	67	73	78	84	86	83
65.0	397	391	382	369	358	340	317	289	265	237
55.0	1121	1102	1067	1021	965	871	788	688	589	498
47.5	2392	2335	2251	2123	1972	1749	1494	1372	1045	830
42.5	3742	3573	3397	3140	2896	2632	2310	1840	1525	1143
37.5	6036	5710	5247	4669	4180	3651	3157	2656	1966	1600
33.0	9463	8820	7947	6942	5957	4957	4053	3366	2615	1848
29.0	13680	12729	11431	9848	8297	6616	5150	4029	3169	2248
25.5	18501	16838	15057	12871	10734	8429	6353	4717	3604	2636

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

22.5	24778 *	21857 *	18870	15780	13120	10275	7554	5394	3947	2927
19.5	33744 *	29309 *	23861 *	19028	15527	12202	8815	6175	4299	3169
17.0	42801 *	36995 *	29816 *	22434 *	17690	13782	10013	6828	4571	3345
15.0	51285 *	43342 *	34915 *	26144 *	19998	14994	10974	7326	4828	3498
13.0	59898 *	50593 *	40317 *	30055 *	22390 *	16473	11852	7910	5088	3634
11.0	70837 *	57599 *	45619 *	33619 *	24428 *	17760	12714	8422	5329	3754
9.0	80731 *	66171 *	51356 *	37584 *	26944 *	18849	13466	8829	5545	3858
7.0	91722 *	73576 *	56270 *	41006 *	29248 *	19931	14042	9159	5735	3947
5.0	100815 *	79462 *	60189 *	43738 *	31151 *	20979 *	14479	9411	5895	4019
3.0	108012 *	84707 *	63605 *	45714 *	32580 *	21770 *	14779	9599	6035	4093
1.0	113338 *	88287 *	65711 *	46937 *	33094 *	22042 *	14939	9741	6058	4122
0.0	113793 *	88993 *	66144 *	47072 *	33059 *	22045 *	14971	9769	6069	4136
-1.0	113095 *	88775 *	66152 *	47244 *	33361 *	22249 *	15124	9848	6085	4142
-3.0	110218 *	86703 *	64932 *	46662 *	33367 *	22367 *	15320	9916	6117	4153
-5.0	105542 *	82902 *	62318 *	45335 *	32404 *	21800 *	15120	9854	6039	4119
-7.0	98522 *	78687 *	59613 *	43246 *	30911 *	20922 *	14751	9668	5980	4098
-9.0	87423 *	72115 *	55701 *	40394 *	28901 *	19967	14256	9395	5881	4066
-11.0	77659 *	63809 *	50343 *	36731 *	26556 *	19024	13622	9038	5744	4017
-13.0	67314 *	56932 *	45321 *	33575 *	24555 *	17915	12874	8576	5569	3952
-15.0	58642 *	49653 *	40126 *	30032 *	22371 *	16652	12085	8038	5350	3870
-17.0	50028 *	43267 *	35009 *	26507 *	20166 *	15462	11188	7617	5122	3771
-19.5	40789 *	35347 *	28756 *	22494 *	17873	13932	10048	7033	4901	3652
-22.5	30946 *	26960 *	22610 *	18544	15258	12052	8817	6302	4599	3480
-25.5	22893 *	20297 *	17985	15329	12872	10148	7624	5655	4322	3269
-29.0	16865	15652	14114	12183	10334	8263	6376	4991	3962	2897
-33.0	12388	11479	10273	8986	7733	6353	5241	4360	3487	2464
-37.5	8319	7848	7213	6426	5725	5016	4357	3707	2828	2164
-42.5	5606	5371	5110	4751	4418	4024	3540	2874	2272	1782
-47.5	4175	4081	3935	3691	3414	3016	2583	2240	1793	1389
-55.0	2455	2368	2249	2133	2019	1855	1648	1431	1188	994
-65.0	1133	1113	1085	1046	1006	947	877	780	680	588
-75.0	517	513	505	492	474	449	421	386	344	296
-85.0	123	121	119	116	113	107	101	92	81	69
-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	7	6	5	2	0
75.0	76	55	27	7	0
65.0	198	131	65	11	0
55.0	378	241	116	19	0
47.5	586	344	159	27	0
42.5	756	418	193	32	0
37.5	956	498	225	36	0
33.0	1168	576	253	40	0
29.0	1359	646	278	43	0
25.5	1555	707	298	46	0
22.5	1706	755	314	48	0
19.5	1844	803	329	50	0
17.0	1951	840	340	51	0
15.0	2034	867	348	52	0
13.0	2115	891	355	53	0
11.0	2191	914	362	55	0
9.0	2263	933	368	56	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2328	949	374	56	0
<b>5.0</b>	2373	963	381	56	0
<b>3.0</b>	2420	978	384	57	0
<b>1.0</b>	2439	985	387	57	0
<b>0.0</b>	2448	988	388	57	0
<b>-1.0</b>	2455	991	389	57	0
<b>-3.0</b>	2468	998	392	57	0
<b>-5.0</b>	2451	997	394	58	0
<b>-7.0</b>	2436	996	392	58	0
<b>-9.0</b>	2403	992	392	58	0
<b>-11.0</b>	2361	984	390	59	0
<b>-13.0</b>	2311	975	388	57	0
<b>-15.0</b>	2255	962	386	56	0
<b>-17.0</b>	2192	946	382	56	0
<b>-19.5</b>	2106	922	377	55	0
<b>-22.5</b>	1997	888	368	54	0
<b>-25.5</b>	1880	855	358	52	0
<b>-29.0</b>	1728	808	345	50	0
<b>-33.0</b>	1554	753	326	48	0
<b>-37.5</b>	1341	687	302	44	0
<b>-42.5</b>	1137	614	271	40	0
<b>-47.5</b>	962	541	236	35	0
<b>-55.0</b>	723	430	188	26	0
<b>-65.0</b>	456	272	119	17	0
<b>-75.0</b>	223	134	56	10	0
<b>-85.0</b>	53	31	14	3	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 39796.05

Total Field Lumens (one side of beam only) = 32123.59

\* 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	0.01	0.02	0.03	0.05	0.07	0.09	0.11	0.12	0.18
65	0.64	1.29	1.29	1.29	1.30	1.30	1.30	1.29	1.28	1.57
55	2.53	5.06	5.02	4.94	4.85	4.74	4.62	4.51	4.41	5.32
47.5	4.38	8.73	8.67	8.58	8.44	8.23	8.03	7.85	7.63	9.16
42.5	5.32	10.61	10.51	10.36	10.17	9.89	9.57	9.22	8.81	10.45
37.5	9.09	18.18	17.93	17.55	17.12	16.51	15.73	14.85	13.95	16.21
33	13.62	27.24	26.83	26.17	25.37	24.22	22.79	21.28	19.78	22.56
29	18.66	37.16	36.47	35.41	34.06	32.35	30.39	28.29	26.17	29.60
25.5	24.40 *	48.42 *	47.30 *	45.64 *	43.23 *	40.23	37.35	34.60	31.64	35.47
22.5	30.92 *	61.39 *	59.81 *	57.26 *	53.55 *	48.83 *	44.40 *	40.35 *	36.00 *	39.39
19.5	44.94 *	89.16 *	86.38 *	82.15 *	76.74 *	69.60 *	62.23 *	55.24 *	48.18 *	50.93 *
17	52.59 *	104.08 *	100.07 *	94.37 *	87.64 *	78.60 *	69.40 *	60.72 *	52.28 *	54.23 *
15	56.51 *	111.21 *	106.68 *	99.40 *	89.97 *	79.26 *	69.29 *	59.91 *	51.07 *	52.46 *
13	71.88 *	141.09 *	135.63 *	125.67 *	112.18 *	97.65 *	84.11 *	71.44 *	60.06 *	61.17 *
11	85.99 *	169.27 *	163.47 *	152.26 *	136.79 *	119.35 *	101.65 *	84.90 *	69.96 *	70.19 *
9	97.77 *	193.25 *	187.47 *	176.20 *	160.31 *	141.55 *	120.80 *	99.64 *	80.62 *	79.82 *
7	107.12 *	212.25 *	206.43 *	195.86 *	180.68 *	161.40 *	138.68 *	113.95 *	91.41 *	89.45 *
5	114.33 *	226.58 *	220.76 *	210.83 *	196.33 *	177.31 *	153.43 *	126.67 *	101.19 *	97.45 *
3	119.11 *	236.27 *	230.80 *	221.25 *	207.20 *	188.28 *	164.22 *	136.91 *	109.21 *	104.12 *
1	121.38 *	241.44 *	236.98 *	227.78 *	213.64 *	194.89 *	171.59 *	144.55 *	115.46 *	109.31 *
0	61.03 *	121.61 *	119.72 *	115.15 *	108.03 *	98.95 *	87.62 *	74.09 *	59.21 *	55.89 *
-1	61.10 *	121.71 *	119.89 *	115.35 *	108.22 *	99.11 *	87.63 *	74.01 *	59.24 *	56.06 *
	122.22 *	243.10 *	238.63 *	229.23 *	215.19 *	196.92 *	173.60 *	146.01 *	116.77 *	110.85 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	121.50 *	240.67 *	234.26 *	224.31 *	210.80 *	192.73 *	169.29 *	141.54 *	112.84 *	107.34 *
<b>-5</b>	117.92 *	233.19 *	226.28 *	216.16 *	202.44 *	184.18 *	160.73 *	133.83 *	107.06 *	102.52 *
<b>-7</b>	111.47 *	220.75 *	214.62 *	204.38 *	189.85 *	170.75 *	147.46 *	122.13 *	98.60 *	96.22 *
<b>-9</b>	103.47 *	204.53 *	198.57 *	188.37 *	173.06 *	153.33 *	130.79 *	108.12 *	88.14 *	87.49 *
<b>-11</b>	93.36 *	183.73 *	177.25 *	167.22 *	152.25 *	133.25 *	113.07 *	94.21 *	77.80 *	78.25 *
<b>-13</b>	80.61 *	157.93 *	151.32 *	141.58 *	127.82 *	111.74 *	95.78 *	81.03 *	68.09 *	69.44 *
<b>-15</b>	66.06 *	129.03 *	123.29 *	115.07 *	104.09 *	91.96 *	80.29 *	69.23 *	59.03 *	60.77 *
<b>-17</b>	64.04 *	125.03 *	119.59 *	112.39 *	103.47 *	92.87 *	82.26 *	72.03 *	62.01 *	64.35 *
<b>-19.5</b>	56.01 *	110.36 *	106.57 *	101.13 *	94.17 *	85.69 *	76.77 *	67.87 *	58.87 *	61.65 *
<b>-22.5</b>	39.71 *	79.13 *	77.23 *	73.75 *	68.94 *	63.04 *	56.91 *	50.73 *	44.40 *	47.65 *
<b>-25.5</b>	32.17 *	64.19 *	62.82 *	60.15 *	56.50 *	52.20 *	47.79 *	43.28 *	38.79	43.06
<b>-29</b>	24.45	48.92 *	48.16	46.51	44.27	41.67	38.87	35.92	33.02	37.26
<b>-33</b>	18.31	36.60	36.20	35.35	34.14	32.52	30.58	28.49	26.37	29.95
<b>-37.5</b>	13.11	26.16	25.86	25.31	24.60	23.64	22.48	21.17	19.87	23.09
<b>-42.5</b>	8.49	16.98	16.82	16.51	16.15	15.72	15.23	14.68	14.08	16.72
<b>-47.5</b>	8.38	16.75	16.63	16.40	16.12	15.76	15.34	14.88	14.36	17.13
<b>-55</b>	6.10	12.21	12.14	11.96	11.73	11.45	11.12	10.75	10.35	12.32
<b>-65</b>	2.68	5.35	5.32	5.26	5.19	5.11	5.02	4.91	4.80	5.81
<b>-75</b>	1.02	2.03	2.02	2.01	1.99	1.97	1.94	1.90	1.87	2.27
<b>-85</b>	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.22
<b>-90</b>										
<b>Total</b>	2194.48	4342.85	4221.91	4016.76	3728.85	3369.04	2960.42	2527.24	2104.98	2125.34

**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	0.02	0.01
<b>85</b>	0.25	0.27	0.34	0.41	0.48	0.53	0.49	0.62	0.55	0.24
<b>75</b>	1.84	1.78	1.99	2.11	2.15	2.11	1.81	2.12	1.75	0.72
<b>65</b>	6.05	5.66	6.00	6.05	5.83	5.34	4.28	4.68	3.61	1.44
<b>55</b>	10.34	9.52	9.87	9.60	9.11	8.08	5.98	6.14	4.42	1.68

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	11.63	10.57	10.96	10.68	9.81	8.43	6.11	5.92	4.00	1.45
<b>42.5</b>	17.54	15.53	15.83	15.34	13.94	11.64	8.39	7.96	5.00	1.74
<b>37.5</b>	23.81	20.42	19.98	18.58	16.66	13.91	9.72	8.96	5.47	1.82
<b>33</b>	30.85	25.91	24.48	21.69	18.58	15.37	10.64	9.46	5.70	1.82
<b>29</b>	36.73	30.49	28.26	24.26	19.83	15.84	10.98	9.75	5.68	1.76
<b>25.5</b>	40.04	32.87	30.25	25.54	20.16	15.45	10.59	9.46	5.39	1.62
<b>22.5</b>	49.61	39.73	36.34	30.42	23.45	17.33	11.58	10.34	5.83	1.72
<b>19.5</b>	50.72 *	38.96	35.07	29.25	22.26	15.95	10.35	9.21	5.17	1.50
<b>17</b>	48.33 *	36.01 *	31.49	25.98	19.66	13.74	8.74	7.74	4.33	1.25
<b>15</b>	56.06 *	41.15 *	35.00	28.35	21.30	14.67	9.18	8.06	4.49	1.28
<b>13</b>	63.81 *	46.12 *	38.41 *	30.70	22.89	15.60	9.58	8.36	4.65	1.31
<b>11</b>	71.73 *	51.16 *	41.69 *	32.78	24.30	16.40	9.95	8.62	4.79	1.34
<b>9</b>	79.43 *	56.25 *	45.00 *	34.61	25.46	17.07	10.27	8.86	4.92	1.37
<b>7</b>	85.82 *	60.58 *	48.00 *	36.25	26.35	17.61	10.55	9.05	5.03	1.39
<b>5</b>	90.96 *	63.93 *	50.45 *	37.60	27.01	18.04	10.79	9.22	5.12	1.41
<b>3</b>	94.68 *	66.08 *	51.88 *	38.39	27.45	18.33	10.93	9.34	5.19	1.42
<b>1</b>	48.17 *	33.42 *	26.12 *	19.32	13.83	9.23	5.49	4.70	2.61	0.71
<b>0</b>	48.33 *	33.54 *	26.23 *	19.42	13.91	9.26	5.50	4.71	2.62	0.72
<b>-1</b>	95.96 *	67.04 *	52.76 *	39.19	28.10	18.64	11.03	9.44	5.26	1.44
<b>-3</b>	93.52 *	65.85 *	52.09 *	38.95	28.10	18.62	11.00	9.42	5.26	1.45
<b>-5</b>	89.79 *	63.40 *	50.24 *	37.90	27.64	18.39	10.89	9.36	5.23	1.45
<b>-7</b>	84.86 *	59.87 *	47.72 *	36.49	26.90	18.03	10.78	9.29	5.19	1.44
<b>-9</b>	78.13 *	55.34 *	44.75 *	34.91	25.91	17.53	10.61	9.18	5.13	1.43
<b>-11</b>	70.79 *	50.68 *	41.72 *	33.12	24.68	16.87	10.38	9.03	5.04	1.42
<b>-13</b>	63.58 *	46.13 *	38.61 *	31.08	23.26	16.06	10.09	8.85	4.95	1.41
<b>-15</b>	56.16 *	41.35 *	35.37	28.92	21.78	15.24	9.75	8.64	4.83	1.39
<b>-17</b>	60.12 *	45.41 *	39.94	33.04	25.10	17.99	11.74	10.47	5.86	1.71
<b>-19.5</b>	59.12 *	46.43	42.02	35.12	27.03	19.98	13.43	12.04	6.75	1.99

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	47.64	38.82	35.77	30.26	23.84	18.26	12.65	11.39	6.41	1.93
<b>-25.5</b>	44.50	37.04	34.51	29.61	24.13	19.32	13.61	12.22	7.02	2.15
<b>-29</b>	38.86	32.75	30.97	27.39	23.47	19.60	13.79	12.35	7.37	2.32
<b>-33</b>	31.57	27.11	26.47	24.63	22.24	18.87	13.25	12.09	7.42	2.42
<b>-37.5</b>	25.06	22.25	22.72	22.11	20.25	17.03	12.17	11.47	7.19	2.44
<b>-42.5</b>	18.65	16.98	17.62	17.18	15.72	13.38	9.74	9.41	6.19	2.16
<b>-47.5</b>	19.21	17.62	18.31	17.82	16.58	14.55	10.83	10.90	7.58	2.72
<b>-55</b>	13.89	12.95	13.81	13.91	13.25	11.89	9.29	9.86	7.15	2.62
<b>-65</b>	6.67	6.30	6.81	7.03	6.89	6.39	5.14	5.58	4.13	1.51
<b>-75</b>	2.63	2.49	2.71	2.81	2.80	2.63	2.13	2.29	1.68	0.61
<b>-85</b>	0.25	0.24	0.26	0.27	0.27	0.25	0.20	0.22	0.16	0.06
<b>-90</b>										
<b>Total</b>	1967.68	1476.03	1268.83	1039.1	812.37	599.48	394.43	356.82	212.11	65.80

<b>Vert. Angles</b>	<b>Horizontal Angles</b>		
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>
<b>90</b>			
	0.00	0.00	0.13
<b>85</b>			
	0.05	0.00	4.92
<b>75</b>			
	0.15	0.00	31.09
<b>65</b>			
	0.28	0.00	95.22
<b>55</b>			
	0.32	0.01	154.76
<b>47.5</b>			
	0.27	0.00	174.74
<b>42.5</b>			
	0.32	0.01	270.35
<b>37.5</b>			
	0.33	0.01	369.54
<b>33</b>			
	0.32	0.01	473.41
<b>29</b>			
	0.31	0.01	572.15
<b>25.5</b>			
	0.28	0.00	663.56
<b>22.5</b>			
	0.29	0.00	892.17
<b>19.5</b>			
	0.25	0.00	972.68
<b>17</b>			
	0.21	0.00	973.23

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

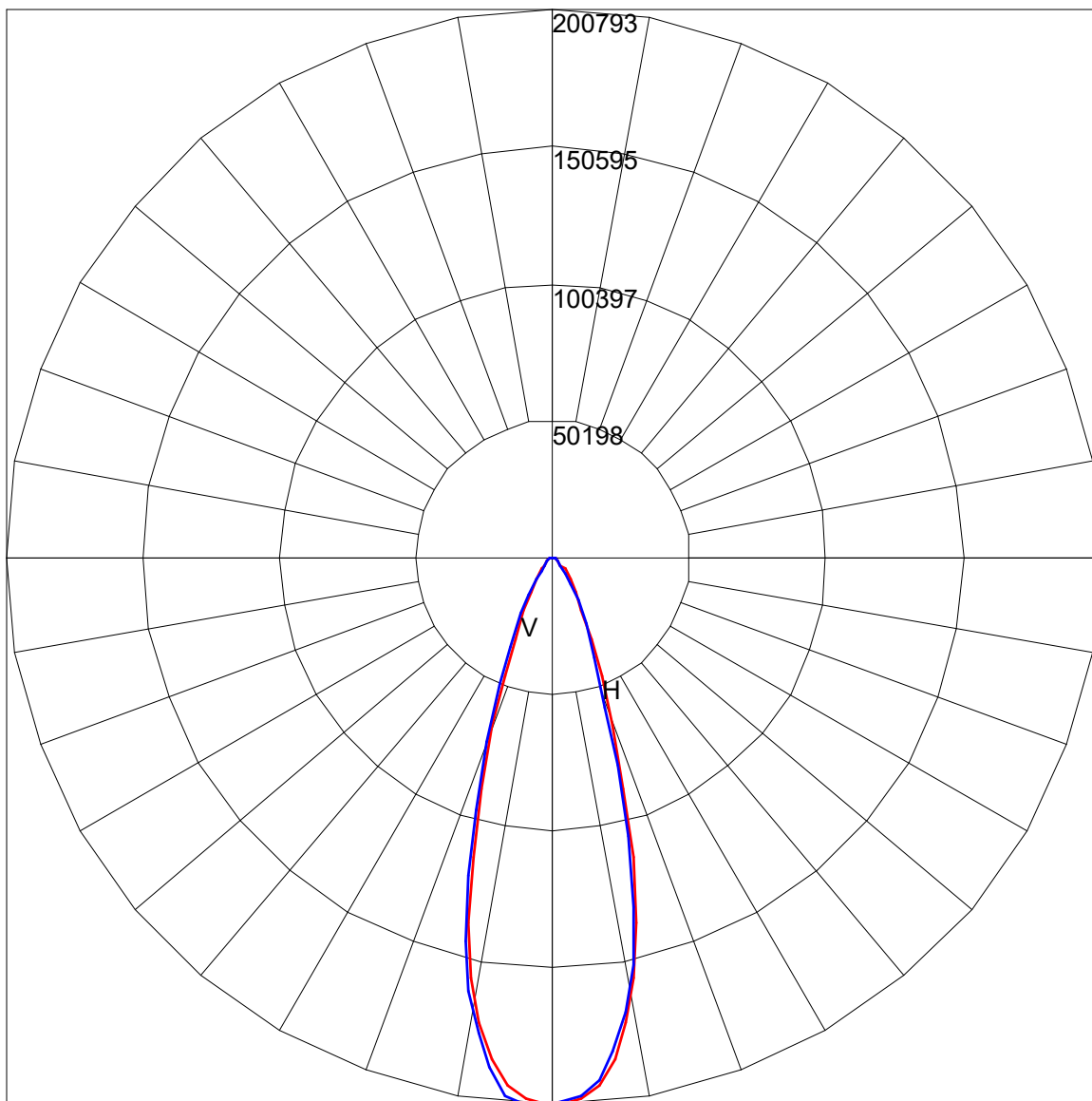
<b>15</b>	0.21	0.00	1180.64
<b>13</b>	0.22	0.00	1395.48
<b>11</b>	0.22	0.00	1600.43
<b>9</b>	0.23	0.00	1780.71
<b>7</b>	0.23	0.00	1925.73
<b>5</b>	0.23	0.00	2032.14
<b>3</b>	0.23	0.00	2100.97
<b>1</b>	0.12	0.00	1065.01
<b>0</b>	0.12	0.00	1066.68
<b>-1</b>	0.24	0.00	2121.64
<b>-3</b>	0.24	0.00	2079.76
<b>-5</b>	0.24	0.00	1998.87
<b>-7</b>	0.24	0.00	1877.07
<b>-9</b>	0.24	0.00	1719.04
<b>-11</b>	0.24	0.00	1534.36
<b>-13</b>	0.23	0.00	1329.6
<b>-15</b>	0.23	0.00	1122.49
<b>-17</b>	0.29	0.00	1149.72
<b>-19.5</b>	0.34	0.01	1083.34
<b>-22.5</b>	0.33	0.01	828.83
<b>-25.5</b>	0.37	0.01	725.44
<b>-29</b>	0.41	0.01	608.34
<b>-33</b>	0.43	0.01	495.03
<b>-37.5</b>	0.43	0.01	388.43
<b>-42.5</b>	0.38	0.01	278.80
<b>-47.5</b>	0.48	0.01	288.34
<b>-55</b>	0.46	0.01	219.20
<b>-65</b>	0.27	0.00	106.17

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-MF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

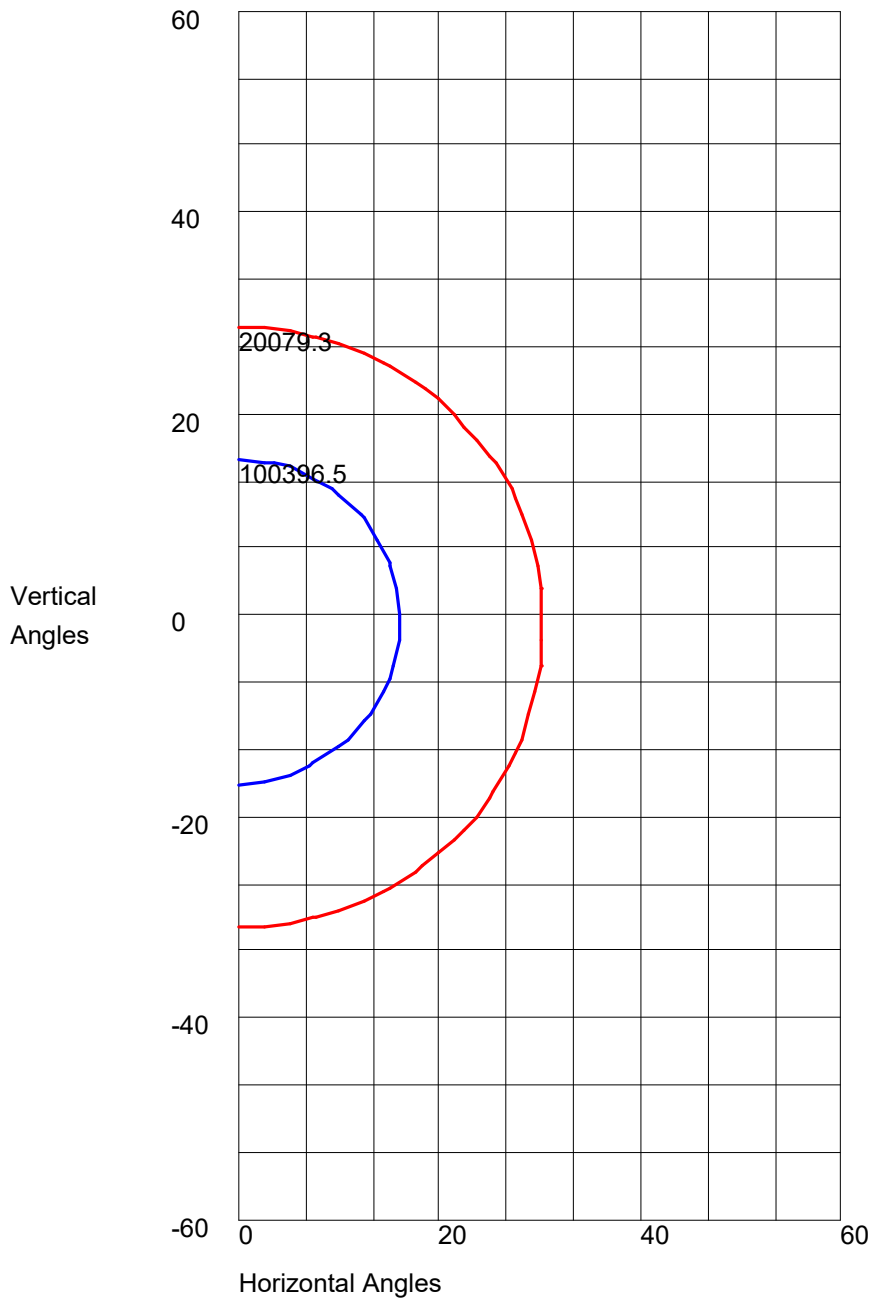
<b>-75</b>	0.11	0.00	41.89
<b>-85</b>	0.01	0.00	4.02
<b>-90</b>			
<b>Total</b>	11.40	0.19	39796.12

AXIAL CANDELA DISPLAY



Maximum Candela = 200793 Located At Horizontal Angle = 0, Vertical Angle = -1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 200793 Located At Horizontal Angle = 0, Vertical Angle = -1  
50% Maximum Candela = 100396.5  
10% Maximum Candela = 20079.3