



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13447

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/30/22

[TEST DATE] 06/01/22

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-85L-VNF-40

[LUMINAIRE OTHER] TEST PROCEDURE: IESNA LM-79-19

[OTHER] SCALED FROM ORIGINAL TEST DATA

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[SEARCH_COLORTEMP] 4000

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

CHARACTERISTICS

NEMA Type	2 H x 2 V
Maximum Candela	650946
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	13.8
Vertical Beam Angle (50%)	13.9
Horizontal Field Angle (10%)	27.3
Vertical Field Angle (10%)	27.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	21891
Beam Efficiency	N.A.
Field Lumens	41977
Field Efficiency	N.A.
Spill Lumens	30304
Luminaire Lumens	72281
Total Efficiency	N.A.
Total Luminaire Watts	546.5
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	104	85	105
75	587	75	589
65	1140	65	1146
55	2283	55	2299
47.5	4611	47.5	4638
42.5	6855	42.5	6890
37.5	9456	37.5	9506
33	11697	33	11737
29	13357	29	13405
25.5	15594	25.5	15597
22.5	19029	22.5	18877
19.5	23984	19.5	24235
17	32776	17	33300
15	46047	15	46884
13	74599	13	76217
11	121819	11	125080
9	199581	9	205118
7	315806	7	322229
5	474459	5	476569
3	603107	3	605779
1	644675	1	645800
0	650946	0	650946
-1	644675	-1	645800
-3	603107	-3	605779
-5	474459	-5	476569
-7	315806	-7	322229
-9	199581	-9	205118
-11	121819	-11	125080
-13	74599	-13	76217
-15	46047	-15	46884
-17	32776	-17	33300
-19.5	23984	-19.5	24235
-22.5	19029	-22.5	18877
-25.5	15594	-25.5	15597
-29	13357	-29	13405
-33	11697	-33	11737
-37.5	9456	-37.5	9506
-42.5	6855	-42.5	6890
-47.5	4611	-47.5	4638
-55	2283	-55	2299
-65	1140	-65	1146
-75	587	-75	589
-85	104	-85	105
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 650946

Beam Edge = 325473 Cd (50% of Max.)

Field Edge = 65094.6 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	6	18	30	44	59	68	76	82	86
75.0	0	18	73	151	245	312	359	402	437	466
65.0	0	30	153	321	516	646	726	810	880	937
55.0	0	45	245	515	795	1000	1143	1304	1457	1590
47.5	0	59	312	649	1006	1307	1563	1882	2204	2563
42.5	0	68	363	732	1149	1560	1948	2462	3062	3696
37.5	0	76	409	810	1302	1882	2468	3333	4311	5244
33.0	0	82	448	878	1461	2220	3085	4328	5574	6754
29.0	0	87	478	935	1602	2579	3728	5251	6744	8204
25.5	0	91	502	983	1738	2887	4331	6047	7773	9351
22.5	0	94	521	1015	1844	3210	4807	6704	8602	10257
19.5	0	96	537	1047	1937	3490	5261	7336	9384	11052
17.0	0	98	549	1070	2020	3712	5596	7825	9949	11597
15.0	0	100	557	1086	2078	3904	5862	8180	10360	11980
13.0	0	101	564	1099	2130	4074	6111	8528	10725	12314
11.0	0	104	571	1111	2175	4222	6327	8825	11015	12605
9.0	0	104	576	1121	2213	4347	6504	9056	11245	12849
7.0	0	104	580	1129	2244	4448	6643	9234	11429	13047
5.0	0	104	586	1134	2265	4526	6744	9360	11567	13199
3.0	0	104	587	1140	2288	4607	6854	9435	11658	13303
1.0	0	104	587	1140	2285	4610	6855	9467	11695	13352
0.0	0	104	587	1140	2283	4611	6855	9456	11697	13357
-1.0	0	104	587	1140	2285	4610	6855	9467	11695	13352
-3.0	0	104	587	1140	2288	4607	6854	9435	11658	13303
-5.0	0	104	586	1134	2265	4526	6744	9360	11567	13199
-7.0	0	104	580	1129	2244	4448	6643	9234	11429	13047
-9.0	0	104	576	1121	2213	4347	6504	9056	11245	12849
-11.0	0	104	571	1111	2175	4222	6327	8825	11015	12605
-13.0	0	101	564	1099	2130	4074	6111	8528	10725	12314
-15.0	0	100	557	1086	2078	3904	5862	8180	10360	11980
-17.0	0	98	549	1070	2020	3712	5596	7825	9949	11597
-19.5	0	96	537	1047	1937	3490	5261	7336	9384	11052
-22.5	0	94	521	1015	1844	3210	4807	6704	8602	10257
-25.5	0	91	502	983	1738	2887	4331	6047	7773	9351
-29.0	0	87	478	935	1602	2579	3728	5251	6744	8204
-33.0	0	82	448	878	1461	2220	3085	4328	5574	6754
-37.5	0	76	409	810	1302	1882	2468	3333	4311	5244
-42.5	0	68	363	732	1149	1560	1948	2462	3062	3696
-47.5	0	59	312	649	1006	1307	1563	1882	2204	2563
-55.0	0	45	245	515	795	1000	1143	1304	1457	1590
-65.0	0	30	153	321	516	646	726	810	880	937
-75.0	0	18	73	151	245	312	359	402	437	466
-85.0	0	6	18	30	44	59	68	76	82	86
-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	90	93	96	98	100	102	105	106	106	106
75.0	489	507	522	532	540	548	557	564	571	580
65.0	987	1019	1049	1072	1088	1103	1115	1124	1131	1135
55.0	1723	1829	1933	2021	2083	2138	2180	2213	2238	2255
47.5	2886	3226	3532	3759	3938	4094	4226	4342	4434	4502
42.5	4310	4812	5289	5634	5895	6132	6337	6514	6660	6771
37.5	6064	6746	7365	7830	8173	8513	8814	9070	9261	9402
33.0	7790	8624	9389	9951	10351	10720	11017	11250	11435	11574
29.0	9377	10286	11079	11608	11997	12336	12622	12858	13049	13202
25.5	10616	11507	12260	12808	13239	13640	13991	14451	14879	15206
22.5	11505	12397	13191	13816	14518	15301	16029	16959	17704	18254
19.5	12286	13203	14147	15451	16607	17900	19191	20525	21622	22505
17.0	12838	13826	15437	17282	18851	20632	22344	24927	27300	29031
15.0	13245	14525	16585	18827	20860	23164	26644	29998	36297	41241
13.0	13614	15330	17901	20543	23085	27127	32905	40922	50092	62373
11.0	13935	16101	19169	22182	26418	32819	42290	57600	74417 *	94480 *
9.0	14417	16949	20455	24725	29677	40939	57766	79003 *	112876 *	143093 *
7.0	14839	17635	21454	26994	35921	49935	74593 *	112533 *	159706 *	226834 *
5.0	15165	18182	22237	28750	40569	61436	93497 *	141483 *	222862 *	321962 *
3.0	15380	18568	23212	30884	43753	69375 *	112154 *	177761 *	273623 *	414163 *
1.0	15541	18913	23836	32435	45764	74359 *	121403 *	198456 *	314289 *	484070 *
0.0	15594	19029	23984	32776	46047	74599 *	121819 *	199581 *	315806 *	474459 *
-1.0	15541	18913	23836	32435	45764	74359 *	121403 *	198456 *	314289 *	484070 *
-3.0	15380	18568	23212	30884	43753	69375 *	112154 *	177761 *	273623 *	414163 *
-5.0	15165	18182	22237	28750	40569	61436	93497 *	141483 *	222862 *	321962 *
-7.0	14839	17635	21454	26994	35921	49935	74593 *	112533 *	159706 *	226834 *
-9.0	14417	16949	20455	24725	29677	40939	57766	79003 *	112876 *	143093 *
-11.0	13935	16101	19169	22182	26418	32819	42290	57600	74417 *	94480 *
-13.0	13614	15330	17901	20543	23085	27127	32905	40922	50092	62373
-15.0	13245	14525	16585	18827	20860	23164	26644	29998	36297	41241
-17.0	12838	13826	15437	17282	18851	20632	22344	24927	27300	29031
-19.5	12286	13203	14147	15451	16607	17900	19191	20525	21622	22505
-22.5	11505	12397	13191	13816	14518	15301	16029	16959	17704	18254
-25.5	10616	11507	12260	12808	13239	13640	13991	14451	14879	15206
-29.0	9377	10286	11079	11608	11997	12336	12622	12858	13049	13202
-33.0	7790	8624	9389	9951	10351	10720	11017	11250	11435	11574
-37.5	6064	6746	7365	7830	8173	8513	8814	9070	9261	9402
-42.5	4310	4812	5289	5634	5895	6132	6337	6514	6660	6771
-47.5	2886	3226	3532	3759	3938	4094	4226	4342	4434	4502
-55.0	1723	1829	1933	2021	2083	2138	2180	2213	2238	2255
-65.0	987	1019	1049	1072	1088	1103	1115	1124	1131	1135
-75.0	489	507	522	532	540	548	557	564	571	580
-85.0	90	93	96	98	100	102	105	106	106	106
-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	106	105	105	105	106	106	106	106	105	102
75.0	583	587	589	587	583	580	571	564	557	548
65.0	1143	1145	1146	1145	1143	1135	1131	1124	1115	1103

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CANDELA TABULATION - (Cont.)

55.0	2283	2294	2299	2294	2283	2255	2238	2213	2180	2138
47.5	4587	4621	4638	4621	4587	4502	4434	4342	4226	4094
42.5	6887	6889	6890	6889	6887	6771	6660	6514	6337	6132
37.5	9493	9520	9506	9520	9493	9402	9261	9070	8814	8513
33.0	11667	11724	11737	11724	11667	11574	11435	11250	11017	10720
29.0	13306	13381	13405	13381	13306	13202	13049	12858	12622	12336
25.5	15411	15551	15597	15551	15411	15206	14879	14451	13991	13640
22.5	18620	18853	18877	18853	18620	18254	17704	16959	16029	15301
19.5	23355	23966	24235	23966	23355	22505	21622	20525	19191	17900
17.0	31123	32719	33300	32719	31123	29031	27300	24927	22344	20632
15.0	44595	46435	46884	46435	44595	41241	36297	29998	26644	23164
13.0	70929 *	74769 *	76217 *	74769 *	70929 *	62373	50092	40922	32905	27127
11.0	113776 *	124361 *	125080 *	124361 *	113776 *	94480 *	74417 *	57600	42290	32819
9.0	179738 *	204526 *	205118 *	204526 *	179738 *	143093 *	112876 *	79003 *	57766	40939
7.0	277394 *	321334 *	322229 *	321334 *	277394 *	226834 *	159706 *	112533 *	74593 *	49935
5.0	415082 *	483079 *	476569 *	483079 *	415082 *	321962 *	222862 *	141483 *	93497 *	61436
3.0	532507 *	597173 *	605779 *	597173 *	532507 *	414163 *	273623 *	177761 *	112154 *	69375 *
1.0	598746 *	645658 *	645800 *	645658 *	598746 *	484070 *	314289 *	198456 *	121403 *	74359 *
0.0	603107 *	644675 *	650946 *	644675 *	603107 *	474459 *	315806 *	199581 *	121819 *	74599 *
-1.0	598746 *	645658 *	645800 *	645658 *	598746 *	484070 *	314289 *	198456 *	121403 *	74359 *
-3.0	532507 *	597173 *	605779 *	597173 *	532507 *	414163 *	273623 *	177761 *	112154 *	69375 *
-5.0	415082 *	483079 *	476569 *	483079 *	415082 *	321962 *	222862 *	141483 *	93497 *	61436
-7.0	277394 *	321334 *	322229 *	321334 *	277394 *	226834 *	159706 *	112533 *	74593 *	49935
-9.0	179738 *	204526 *	205118 *	204526 *	179738 *	143093 *	112876 *	79003 *	57766	40939
-11.0	113776 *	124361 *	125080 *	124361 *	113776 *	94480 *	74417 *	57600	42290	32819
-13.0	70929 *	74769 *	76217 *	74769 *	70929 *	62373	50092	40922	32905	27127
-15.0	44595	46435	46884	46435	44595	41241	36297	29998	26644	23164
-17.0	31123	32719	33300	32719	31123	29031	27300	24927	22344	20632
-19.5	23355	23966	24235	23966	23355	22505	21622	20525	19191	17900
-22.5	18620	18853	18877	18853	18620	18254	17704	16959	16029	15301
-25.5	15411	15551	15597	15551	15411	15206	14879	14451	13991	13640
-29.0	13306	13381	13405	13381	13306	13202	13049	12858	12622	12336
-33.0	11667	11724	11737	11724	11667	11574	11435	11250	11017	10720
-37.5	9493	9520	9506	9520	9493	9402	9261	9070	8814	8513
-42.5	6887	6889	6890	6889	6887	6771	6660	6514	6337	6132
-47.5	4587	4621	4638	4621	4587	4502	4434	4342	4226	4094
-55.0	2283	2294	2299	2294	2283	2255	2238	2213	2180	2138
-65.0	1143	1145	1146	1145	1143	1135	1131	1124	1115	1103
-75.0	583	587	589	587	583	580	571	564	557	548
-85.0	106	105	105	105	106	106	106	106	105	102
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **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	100	98	96	93	90	86	82	76	68	59
75.0	540	532	522	507	489	466	437	402	359	312
65.0	1088	1072	1049	1019	987	937	880	810	726	646
55.0	2083	2021	1933	1829	1723	1590	1457	1304	1143	1000
47.5	3938	3759	3532	3226	2886	2563	2204	1882	1563	1307
42.5	5895	5634	5289	4812	4310	3696	3062	2462	1948	1560
37.5	8173	7830	7365	6746	6064	5244	4311	3333	2468	1882
33.0	10351	9951	9389	8624	7790	6754	5574	4328	3085	2220
29.0	11997	11608	11079	10286	9377	8204	6744	5251	3728	2579
25.5	13239	12808	12260	11507	10616	9351	7773	6047	4331	2887

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CANDELA TABULATION - (Cont.)

22.5	14518	13816	13191	12397	11505	10257	8602	6704	4807	3210
19.5	16607	15451	14147	13203	12286	11052	9384	7336	5261	3490
17.0	18851	17282	15437	13826	12838	11597	9949	7825	5596	3712
15.0	20860	18827	16585	14525	13245	11980	10360	8180	5862	3904
13.0	23085	20543	17901	15330	13614	12314	10725	8528	6111	4074
11.0	26418	22182	19169	16101	13935	12605	11015	8825	6327	4222
9.0	29677	24725	20455	16949	14417	12849	11245	9056	6504	4347
7.0	35921	26994	21454	17635	14839	13047	11429	9234	6643	4448
5.0	40569	28750	22237	18182	15165	13199	11567	9360	6744	4526
3.0	43753	30884	23212	18568	15380	13303	11658	9435	6854	4607
1.0	45764	32435	23836	18913	15541	13352	11695	9467	6855	4610
0.0	46047	32776	23984	19029	15594	13357	11697	9456	6855	4611
-1.0	45764	32435	23836	18913	15541	13352	11695	9467	6855	4610
-3.0	43753	30884	23212	18568	15380	13303	11658	9435	6854	4607
-5.0	40569	28750	22237	18182	15165	13199	11567	9360	6744	4526
-7.0	35921	26994	21454	17635	14839	13047	11429	9234	6643	4448
-9.0	29677	24725	20455	16949	14417	12849	11245	9056	6504	4347
-11.0	26418	22182	19169	16101	13935	12605	11015	8825	6327	4222
-13.0	23085	20543	17901	15330	13614	12314	10725	8528	6111	4074
-15.0	20860	18827	16585	14525	13245	11980	10360	8180	5862	3904
-17.0	18851	17282	15437	13826	12838	11597	9949	7825	5596	3712
-19.5	16607	15451	14147	13203	12286	11052	9384	7336	5261	3490
-22.5	14518	13816	13191	12397	11505	10257	8602	6704	4807	3210
-25.5	13239	12808	12260	11507	10616	9351	7773	6047	4331	2887
-29.0	11997	11608	11079	10286	9377	8204	6744	5251	3728	2579
-33.0	10351	9951	9389	8624	7790	6754	5574	4328	3085	2220
-37.5	8173	7830	7365	6746	6064	5244	4311	3333	2468	1882
-42.5	5895	5634	5289	4812	4310	3696	3062	2462	1948	1560
-47.5	3938	3759	3532	3226	2886	2563	2204	1882	1563	1307
-55.0	2083	2021	1933	1829	1723	1590	1457	1304	1143	1000
-65.0	1088	1072	1049	1019	987	937	880	810	726	646
-75.0	540	532	522	507	489	466	437	402	359	312
-85.0	100	98	96	93	90	86	82	76	68	59
-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	44	30	18	6	0
75.0	245	151	73	18	0
65.0	516	321	153	30	0
55.0	795	515	245	45	0
47.5	1006	649	312	59	0
42.5	1149	732	363	68	0
37.5	1302	810	409	76	0
33.0	1461	878	448	82	0
29.0	1602	935	478	87	0
25.5	1738	983	502	91	0
22.5	1844	1015	521	94	0
19.5	1937	1047	537	96	0
17.0	2020	1070	549	98	0
15.0	2078	1086	557	100	0
13.0	2130	1099	564	101	0
11.0	2175	1111	571	104	0
9.0	2213	1121	576	104	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

CANDELA TABULATION - (Cont.)

7.0	2244	1129	580	104	0
5.0	2265	1134	586	104	0
3.0	2288	1140	587	104	0
1.0	2285	1140	587	104	0
0.0	2283	1140	587	104	0
-1.0	2285	1140	587	104	0
-3.0	2288	1140	587	104	0
-5.0	2265	1134	586	104	0
-7.0	2244	1129	580	104	0
-9.0	2213	1121	576	104	0
-11.0	2175	1111	571	104	0
-13.0	2130	1099	564	101	0
-15.0	2078	1086	557	100	0
-17.0	2020	1070	549	98	0
-19.5	1937	1047	537	96	0
-22.5	1844	1015	521	94	0
-25.5	1738	983	502	91	0
-29.0	1602	935	478	87	0
-33.0	1461	878	448	82	0
-37.5	1302	810	409	76	0
-42.5	1149	732	363	68	0
-47.5	1006	649	312	59	0
-55.0	795	515	245	45	0
-65.0	516	321	153	30	0
-75.0	245	151	73	18	0
-85.0	44	30	18	6	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 36140.36

Total Field Lumens (one side of beam only) = 20988.47

* 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	0.08	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.14
75	1.06	2.10	2.09	2.06	2.03	2.00	1.95	1.91	1.86	2.26
65	2.64	5.26	5.23	5.18	5.11	5.04	4.95	4.85	4.73	5.74
55	5.24	10.45	10.36	10.24	10.11	9.95	9.74	9.48	9.17	10.98
47.5	7.91	15.74	15.53	15.26	14.96	14.58	14.12	13.58	12.96	15.25
42.5	8.77	17.49	17.28	16.94	16.55	16.06	15.48	14.82	14.07	16.46
37.5	12.49	24.95	24.73	24.31	23.76	23.05	22.19	21.22	20.15	23.61
33	14.56	29.04	28.81	28.40	27.84	27.10	26.19	25.11	23.92	28.10
29	15.31	30.49	30.23	29.84	29.31	28.65	27.83	26.84	25.71	30.39
25.5	15.44	30.71	30.38	29.87	29.16	28.31	27.42	26.49	25.44	30.22
22.5	15.74	31.25	30.76	30.01	28.95	27.64	26.35	25.14	23.88	28.24
19.5	19.63	38.72	37.71	36.39	34.75	32.71	30.58	28.52	26.52	30.70
17	21.74	42.30	40.27	38.04	35.58	32.62	29.82	27.34	24.96	28.17
15	24.27	47.15	44.36	40.55	35.75	31.17	27.64	24.68	22.20	24.64
13	37.21	72.06	66.59	57.56	47.45	39.14	32.73	27.85	24.39	26.71
11	60.99 *	116.85 *	103.79 *	85.23 *	67.27	52.11	40.26	32.35	27.00	28.85
9	100.38 *	189.47 *	161.38 *	128.71 *	97.70 *	70.99	51.79	38.38	30.16	31.29
7	160.40 *	299.24 *	251.31 *	194.64 *	140.00 *	97.16 *	66.51	46.25	34.35	33.85
5	244.17 *	455.68 *	377.17 *	282.14 *	192.02 *	126.62 *	83.26 *	55.52	38.72	35.95
3	329.37 *	617.31 *	511.61 *	373.40 *	246.05 *	157.46 *	100.25 *	63.58	42.15	38.00
1	379.90 *	722.71 *	616.68 *	450.20 *	290.82 *	182.92 *	112.41 *	68.94	44.75	39.91
0	197.01 *	379.33 *	328.23 *	240.62 *	155.06 *	96.18 *	58.42 *	35.58	22.99	20.44
-1	197.01 *	379.33 *	328.23 *	240.62 *	155.06 *	96.18 *	58.42 *	35.58	22.99	20.44
	379.90 *	722.71 *	616.68 *	450.20 *	290.82 *	182.92 *	112.41 *	68.94	44.75	39.91

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

LUMENS TABULATION - (Cont.)

-3	329.37 *	617.31 *	511.61 *	373.40 *	246.05 *	157.46 *	100.25 *	63.58	42.15	38.00
-5	244.17 *	455.68 *	377.17 *	282.14 *	192.02 *	126.62 *	83.26 *	55.52	38.72	35.95
-7	160.40 *	299.24 *	251.31 *	194.64 *	140.00 *	97.16 *	66.51	46.25	34.35	33.85
-9	100.38 *	189.47 *	161.38 *	128.71 *	97.70 *	70.99	51.79	38.38	30.16	31.29
-11	60.99 *	116.85 *	103.79 *	85.23 *	67.27	52.11	40.26	32.35	27.00	28.85
-13	37.21	72.06	66.59	57.56	47.45	39.14	32.73	27.85	24.39	26.71
-15	24.27	47.15	44.36	40.55	35.75	31.17	27.64	24.68	22.20	24.64
-17	21.74	42.30	40.27	38.04	35.58	32.62	29.82	27.34	24.96	28.17
-19.5	19.63	38.72	37.71	36.39	34.75	32.71	30.58	28.52	26.52	30.70
-22.5	15.74	31.25	30.76	30.01	28.95	27.64	26.35	25.14	23.88	28.24
-25.5	15.44	30.71	30.38	29.87	29.16	28.31	27.42	26.49	25.44	30.22
-29	15.31	30.49	30.23	29.84	29.31	28.65	27.83	26.84	25.71	30.39
-33	14.56	29.04	28.81	28.40	27.84	27.10	26.19	25.11	23.92	28.10
-37.5	12.49	24.95	24.73	24.31	23.76	23.05	22.19	21.22	20.15	23.61
-42.5	8.77	17.49	17.28	16.94	16.55	16.06	15.48	14.82	14.07	16.46
-47.5	7.91	15.74	15.53	15.26	14.96	14.58	14.12	13.58	12.96	15.25
-55	5.24	10.45	10.36	10.24	10.11	9.95	9.74	9.48	9.17	10.98
-65	2.64	5.26	5.23	5.18	5.11	5.04	4.95	4.85	4.73	5.74
-75	1.06	2.10	2.09	2.06	2.03	2.00	1.95	1.91	1.86	2.26
-85	0.08	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.14	0.18
-90										
Total	3348.6	6356.92	5469.28	4239.5	3060.82	2203.21	1620.12	1237.1	1000.49	1059.86

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.20	0.19	0.21	0.22	0.22	0.21	0.17	0.18	0.14	0.06
85	2.60	2.46	2.68	2.80	2.79	2.64	2.15	2.36	1.79	0.71
75	6.60	6.26	6.82	7.10	7.08	6.70	5.50	6.14	4.69	1.82
65	12.43	11.60	12.41	12.70	12.45	11.61	9.46	10.56	8.16	3.21
55	16.83	15.13	15.57	15.30	14.37	12.89	10.12	11.01	8.46	3.36

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

LUMENS TABULATION - (Cont.)

47.5										
	17.98	15.90	15.94	15.04	13.44	11.45	8.58	8.97	6.72	2.67
42.5	25.82	22.88	22.88	21.29	18.42	14.89	10.58	10.53	7.59	3.01
37.5	30.83	27.44	27.56	25.71	22.09	17.34	11.69	11.04	7.62	2.98
33	33.59	30.12	30.44	28.48	24.51	19.12	12.50	11.23	7.42	2.85
29	33.69	30.52	31.14	29.30	25.28	19.76	12.74	11.01	7.00	2.64
25.5	31.58	28.81	29.66	28.18	24.45	19.15	12.30	10.37	6.37	2.36
22.5	33.87	30.92	32.06	30.77	26.88	21.09	13.54	11.23	6.67	2.43
19.5	30.18	27.21	28.30	27.40	24.13	18.97	12.15	9.97	5.77	2.08
17	25.75	22.72	23.53	22.91	20.32	16.02	10.27	8.37	4.76	1.70
15	27.44	23.67	24.24	23.69	21.15	16.73	10.74	8.71	4.86	1.72
13	29.22	24.62	24.86	24.36	21.88	17.37	11.16	9.00	4.96	1.74
11	31.00	25.63	25.50	24.91	22.46	17.91	11.52	9.26	5.04	1.76
9	32.63	26.65	26.13	25.36	22.92	18.33	11.81	9.47	5.10	1.77
7	33.91	27.47	26.65	25.71	23.27	18.65	12.04	9.63	5.15	1.78
5	35.06	28.09	27.03	25.96	23.51	18.89	12.24	9.78	5.19	1.79
3	36.05	28.55	27.28	26.11	23.64	19.02	12.34	9.85	5.21	1.80
1	18.29	14.42	13.70	13.08	11.84	9.52	6.17	4.93	2.60	0.90
0	18.29	14.42	13.70	13.08	11.84	9.52	6.17	4.93	2.60	0.90
-1	36.05	28.55	27.28	26.11	23.64	19.02	12.34	9.85	5.21	1.80
-3	35.06	28.09	27.03	25.96	23.51	18.89	12.24	9.78	5.19	1.79
-5	33.91	27.47	26.65	25.71	23.27	18.65	12.04	9.63	5.15	1.78
-7	32.63	26.65	26.13	25.36	22.92	18.33	11.81	9.47	5.10	1.77
-9	31.00	25.63	25.50	24.91	22.46	17.91	11.52	9.26	5.04	1.76
-11	29.22	24.62	24.86	24.36	21.88	17.37	11.16	9.00	4.96	1.74
-13	27.44	23.67	24.24	23.69	21.15	16.73	10.74	8.71	4.86	1.72
-15	25.75	22.72	23.53	22.91	20.32	16.02	10.27	8.37	4.76	1.70
-17	30.18	27.21	28.30	27.40	24.13	18.97	12.15	9.97	5.77	2.08
-19.5	33.87	30.92	32.06	30.77	26.88	21.09	13.54	11.23	6.67	2.43

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

LUMENS TABULATION - (Cont.)

-22.5	31.58	28.81	29.66	28.18	24.45	19.15	12.30	10.37	6.37	2.36
-25.5	33.69	30.52	31.14	29.30	25.28	19.76	12.74	11.01	7.00	2.64
-29	33.59	30.12	30.44	28.48	24.51	19.12	12.50	11.23	7.42	2.85
-33	30.83	27.44	27.56	25.71	22.09	17.34	11.69	11.04	7.62	2.98
-37.5	25.82	22.88	22.88	21.29	18.42	14.89	10.58	10.53	7.59	3.01
-42.5	17.98	15.90	15.94	15.04	13.44	11.45	8.58	8.97	6.72	2.67
-47.5	16.83	15.13	15.57	15.30	14.37	12.89	10.12	11.01	8.46	3.36
-55	12.43	11.60	12.41	12.70	12.45	11.61	9.46	10.56	8.16	3.21
-65	6.60	6.26	6.82	7.10	7.08	6.70	5.50	6.14	4.69	1.82
-75	2.60	2.46	2.68	2.80	2.79	2.64	2.15	2.36	1.79	0.71
-85	0.20	0.19	0.21	0.22	0.22	0.21	0.17	0.18	0.14	0.06
-90										
Total	1091.1	942.50	949.18	912.79	814.21	656.49	439.56	387.20	242.53	90.28

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.02	0.00	3.33
85			
	0.15	0.00	42.44
75			
	0.36	0.01	107.81
65			
	0.62	0.01	200.95
55			
	0.65	0.01	263.56
47.5			
	0.53	0.01	271.19
42.5			
	0.60	0.01	378.96
37.5			
	0.60	0.01	443.98
33			
	0.58	0.01	475.45
29			
	0.54	0.01	477.04
25.5			
	0.48	0.01	461.68
22.5			
	0.49	0.01	526.21
19.5			
	0.42	0.01	507.42
17			
	0.34	0.01	479.10

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

LUMENS TABULATION - (Cont.)

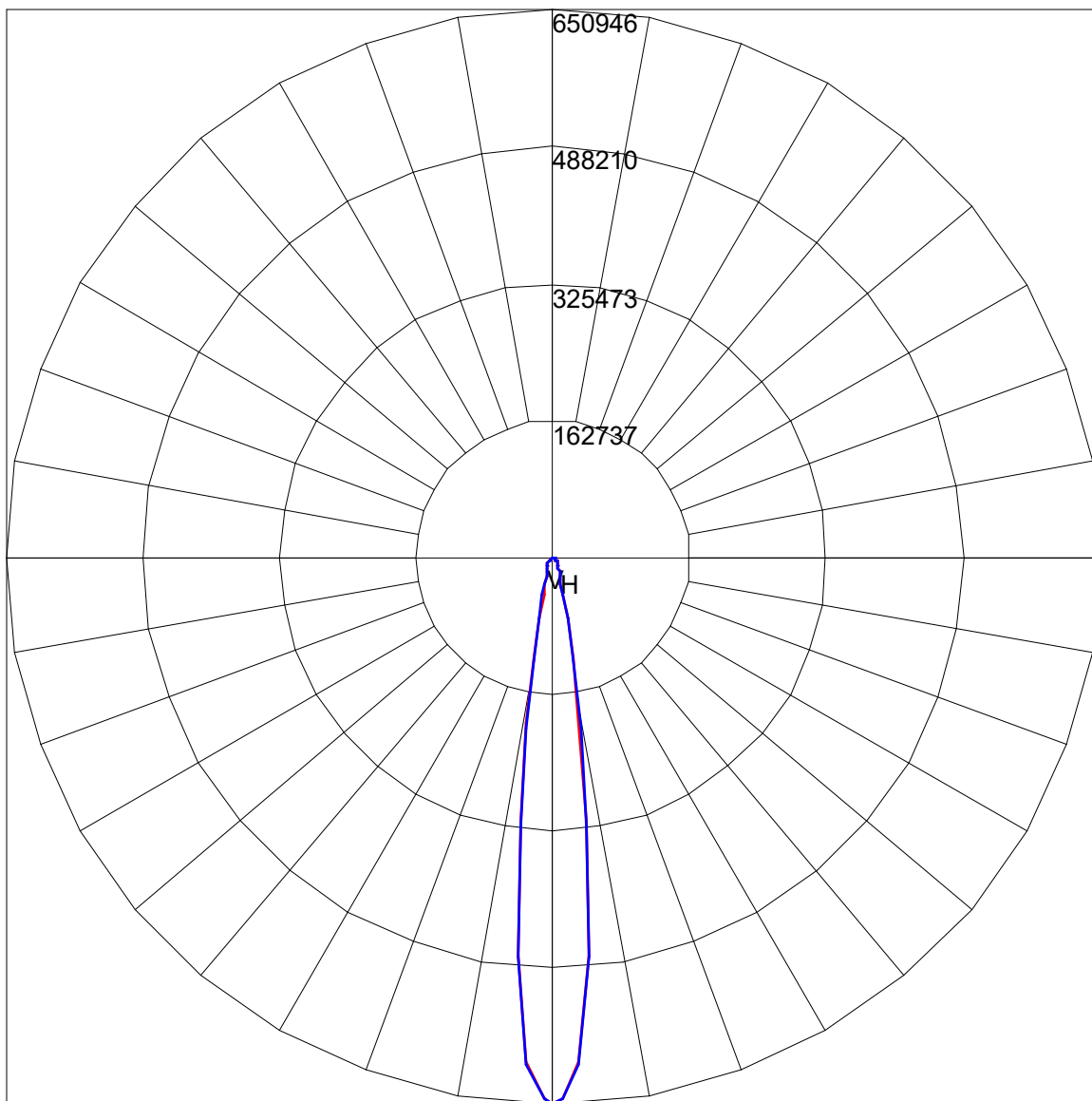
15	0.35	0.01	594.99
13	0.35	0.01	784.23
11	0.36	0.01	1075.58
9	0.36	0.01	1504.25
7	0.36	0.01	2075.91
5	0.36	0.01	2667.09
3	0.37	0.01	3099.47
1	0.18	0.00	1629.49
0	0.18	0.00	1629.49
-1	0.37	0.01	3099.47
-3	0.36	0.01	2667.09
-5	0.36	0.01	2075.91
-7	0.36	0.01	1504.25
-9	0.36	0.01	1075.58
-11	0.35	0.01	784.23
-13	0.35	0.01	594.99
-15	0.34	0.01	479.10
-17	0.42	0.01	507.42
-19.5	0.49	0.01	526.21
-22.5	0.48	0.01	461.68
-25.5	0.54	0.01	477.04
-29	0.58	0.01	475.45
-33	0.60	0.01	443.98
-37.5	0.60	0.01	378.96
-42.5	0.53	0.01	271.19
-47.5	0.65	0.01	263.56
-55	0.62	0.01	200.95
-65	0.36	0.01	107.81

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-VNF-40.IES

LUMENS TABULATION - (Cont.)

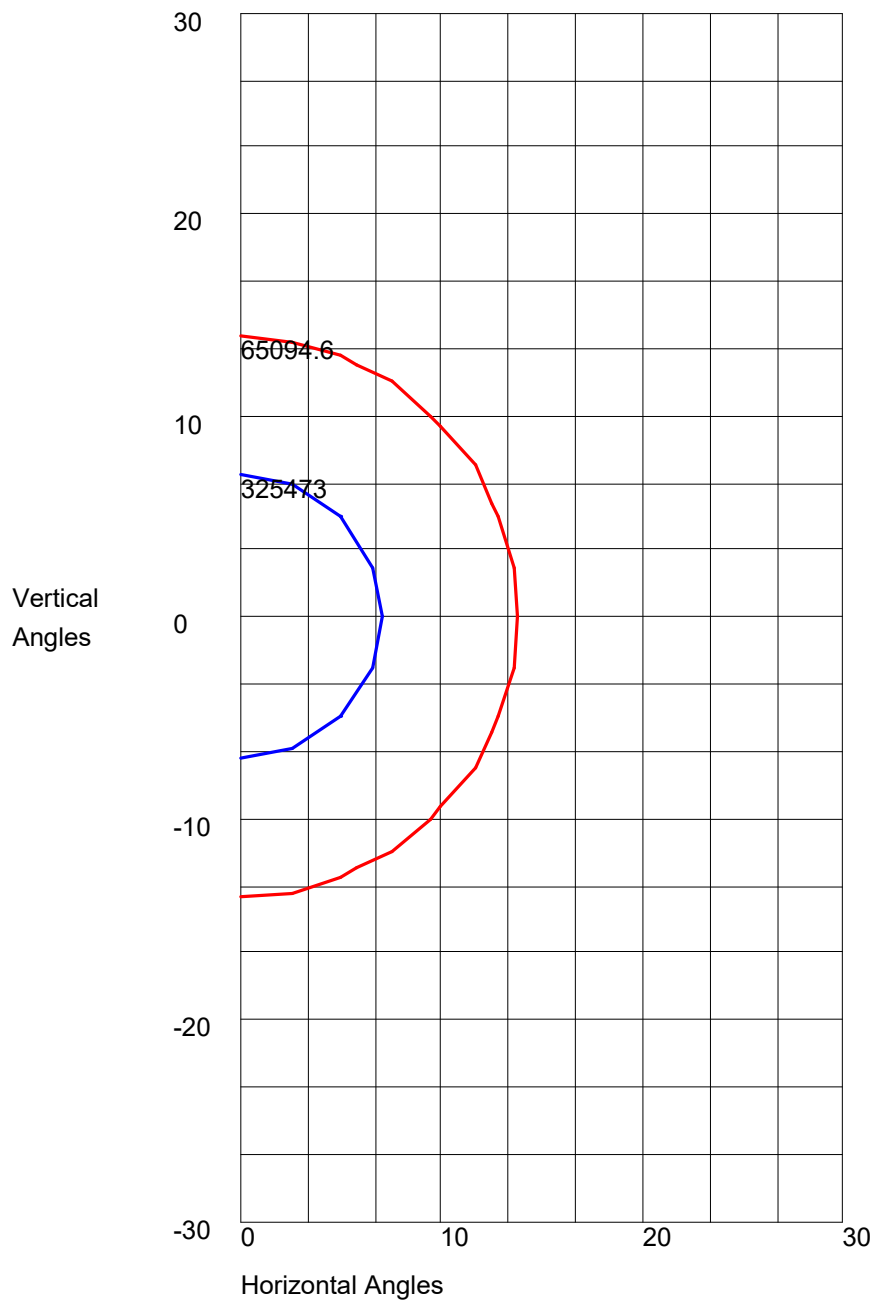
-75	0.15	0.00	42.44
-85	0.02	0.00	3.33
-90			
Total	18.19	0.36	36140.27

AXIAL CANDELA DISPLAY



Maximum Candela = 650946 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 650946 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 325473
10% Maximum Candela = 65094.6