



## IES FLOOD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13138  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 12/20/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-85L-MWF-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	5 H x 5 V
Maximum Candela	139445
Maximum Candela Angle	0H 3V
Horizontal Beam Angle (50%)	38.8
Vertical Beam Angle (50%)	38.8
Horizontal Field Angle (10%)	76.6
Vertical Field Angle (10%)	75.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	39395
Beam Efficiency	N.A.
Field Lumens	69789
Field Efficiency	N.A.
Spill Lumens	9223
Luminaire Lumens	79012
Total Efficiency	N.A.
Total Luminaire Watts	573
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	1	90	0
85	40	85	0
75	281	75	0
65	841	65	148
55	1970	55	1005
47.5	3609	47.5	1872
42.5	8369	42.5	5152
37.5	15338	37.5	11223
33	22971	33	18313
29	31656	29	26490
25.5	41306	25.5	35627
22.5	52654	22.5	46521
19.5	70641	19.5	64360
17	88648	17	83345
15	102539	15	97719
13	113266	13	110375
11	121888	11	120201
9	128757	9	127802
7	134051	7	133656
5	137770	5	138111
3	138972	3	139445
1	139160	1	139362
0	139085	0	139085
-1	139160	-1	139120
-3	138972	-3	138917
-5	137770	-5	137895
-7	134051	-7	134541
-9	128757	-9	129677
-11	121888	-11	123325
-13	113266	-13	115236
-15	102539	-15	104886
-17	88648	-17	90664
-19.5	70641	-19.5	73099
-22.5	52654	-22.5	54603
-25.5	41306	-25.5	42939
-29	31656	-29	33274
-33	22971	-33	24717
-37.5	15338	-37.5	16709
-42.5	8369	-42.5	9829
-47.5	3609	-47.5	4296
-55	1970	-55	2515
-65	841	-65	1165
-75	281	-75	479
-85	40	-85	124
-90	1	-90	28

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**CANDELA TABULATION**

Maximum Candela = 139445

Beam Edge = 69722.5 Cd (50% of Max.)

Field Edge = 13944.5 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	1	1	1	1	1	1	1	1	1	1
85.0	1	3	4	4	5	5	4	2	1	1
75.0	1	6	19	31	37	34	31	25	18	15
65.0	1	10	45	89	130	155	169	180	188	194
55.0	1	15	80	173	285	404	489	582	672	759
47.5	1	20	109	245	450	656	839	980	1117	1323
42.5	1	24	132	303	586	934	1121	1408	1746	1906
37.5	1	27	154	371	765	1183	1530	1975	2424	3340
33.0	1	29	173	440	956	1442	2027	2588	4074	6121
29.0	1	31	191	503	1117	1809	2355	3843	6566	9456
25.5	1	33	206	559	1238	2137	2839	5388	9030	12542
22.5	1	34	217	603	1339	2308	3408	6912	11218	15386 *
19.5	1	36	228	648	1454	2466	4242	8506	13491	18268 *
17.0	1	36	237	684	1559	2627	4887	9791	15315 *	20721 *
15.0	1	37	244	710	1635	2793	5509	10746	16617 *	22543 *
13.0	1	38	250	735	1703	2948	6129	11735	17808 *	24417 *
11.0	1	39	256	758	1764	3090	6681	12622	18987 *	26149 *
9.0	1	39	262	778	1818	3217	7162	13416	20097 *	27715 *
7.0	1	40	267	796	1865	3329	7570	14096 *	21077 *	29068 *
5.0	1	40	274	812	1903	3427	7900	14657 *	21889 *	30167 *
3.0	1	40	277	828	1942	3538	8243	15056 *	22510 *	30959 *
1.0	1	40	279	837	1961	3585	8327	15293 *	22867 *	31497 *
0.0	1	40	281	841	1970	3609	8369	15338 *	22971 *	31656 *
-1.0	1	40	283	844	1986	3629	8418	15357 *	22994 *	31722 *
-3.0	1	40	286	851	2017	3668	8515	15247 *	22891 *	31607 *
-5.0	1	41	289	849	2025	3638	8339	15103 *	22692 *	31169 *
-7.0	1	41	289	849	2031	3612	8157	14876 *	22301 *	30459 *
-9.0	1	41	290	846	2010	3563	7888	14503 *	21701 *	29536 *
-11.0	1	41	290	840	1980	3490	7534	13980 *	20861 *	28328 *
-13.0	1	40	289	833	1941	3394	7094	13296	19881 *	26903 *
-15.0	1	40	288	824	1895	3273	6568	12496	18864 *	25274 *
-17.0	1	40	287	812	1840	3129	6000	11694	17684 *	23659 *
-19.5	1	39	283	793	1761	3017	5365	10549	15992 *	21412 *
-22.5	1	38	277	765	1687	2939	4484	8955	13873	18648 *
-25.5	1	37	269	737	1627	2847	3859	7296	11633	15809 *
-29.0	1	36	258	694	1552	2551	3302	5567	9062	12684
-33.0	1	34	244	641	1411	2185	3061	4052	6338	9129
-37.5	1	32	225	575	1230	1852	2564	3248	4102	5725
-42.5	1	29	202	498	1033	1660	1989	2651	3172	3479
-47.5	1	26	175	428	856	1303	1699	1951	2387	2755
-55.0	1	20	140	335	615	910	1122	1354	1595	1801
-65.0	1	13	92	215	369	503	603	708	807	881
-75.0	1	9	48	112	188	245	289	331	364	387
-85.0	1	4	17	32	52	69	79	89	97	103
-90.0	1	2	6	11	16	20	22	24	26	26

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

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-25.5</b>	<b>-22.5</b>	<b>-19.5</b>	<b>-17.0</b>	<b>-15.0</b>	<b>-13.0</b>	<b>-11.0</b>	<b>-9.0</b>	<b>-7.0</b>	<b>-5.0</b>
<b>90.0</b>	1	1	0	0	0	0	0	0	0	0
<b>85.0</b>	1	1	0	0	0	0	0	0	0	0
<b>75.0</b>	9	6	5	3	1	0	0	0	0	0
<b>65.0</b>	196	195	198	196	193	188	184	177	168	158
<b>55.0</b>	810	852	890	916	934	950	965	978	989	998
<b>47.5</b>	1490	1547	1584	1636	1697	1747	1786	1827	1854	1870
<b>42.5</b>	2173	2489	2974	3313	3713	4103	4416	4686	4907	5061
<b>37.5</b>	4475	5600	6838	7791	8454	9135	9712	10178	10525	10753
<b>33.0</b>	8108	9826	11520	13006	14101 *	15037 *	15865 *	16548 *	17108 *	17557 *
<b>29.0</b>	11935	14359 *	16643 *	18537 *	19943 *	21445 *	22696 *	23694 *	24547 *	25338 *
<b>25.5</b>	15855 *	18922 *	21933 *	24357 *	26500 *	28477 *	30115 *	31769 *	33105 *	34256 *
<b>22.5</b>	19458 *	23248 *	27104 *	30369 *	33234 *	35950 *	38195 *	40689 *	42791 *	44541 *
<b>19.5</b>	23231 *	27807 *	32631 *	37355 *	41356 *	45469 *	49085 *	53256 *	56969 *	59791 *
<b>17.0</b>	26333 *	31660 *	37855 *	43956 *	49001 *	55816 *	61814 *	68060 *	73725 *	78779 *
<b>15.0</b>	28828 *	34924 *	42244 *	49471 *	57419 *	65393 *	74360 *	81840 *	87650 *	92788 *
<b>13.0</b>	31231 *	38181 *	46900 *	56686 *	65783 *	76641 *	86220 *	94430 *	100927 *	105443 *
<b>11.0</b>	33513 *	41221 *	51529 *	63631 *	75190 *	86611 *	96796 *	105072 *	111708 *	116184 *
<b>9.0</b>	35866 *	44693 *	57309 *	71618 *	84143 *	95289 *	105459 *	114187 *	119585 *	123975 *
<b>7.0</b>	37902 *	47788 *	62390 *	78541 *	91420 *	103042 *	112682 *	120063 *	125497 *	129360 *
<b>5.0</b>	39369 *	50119 *	66280 *	83983 *	96805 *	108021 *	117359 *	124308 *	129752 *	133453 *
<b>3.0</b>	40443 *	51700 *	69067 *	87108 *	100465 *	111339 *	119980 *	126798 *	132242 *	136130 *
<b>1.0</b>	41124 *	52616 *	70508 *	88547 *	102650 *	113183 *	121577 *	128278 *	133647 *	137656 *
<b>0.0</b>	41306 *	52654 *	70641 *	88648 *	102539 *	113266 *	121888 *	128757 *	134051 *	137770 *
<b>-1.0</b>	41437 *	53165 *	71213 *	89157 *	102760 *	113288 *	121710 *	128413 *	133736 *	137678 *
<b>-3.0</b>	41283 *	52941 *	70423 *	88100 *	101008 *	111847 *	120544 *	127534 *	133048 *	136389 *
<b>-5.0</b>	40501 *	51600 *	67854 *	85080 *	97647 *	108872 *	118711 *	125496 *	130496 *	134189 *
<b>-7.0</b>	39316 *	49610 *	64490 *	80257 *	92656 *	104438 *	114272 *	121321 *	126888 *	130630 *
<b>-9.0</b>	37742 *	47061 *	60133 *	74513 *	87266 *	98681 *	108147 *	115965 *	121488 *	125786 *
<b>-11.0</b>	35845 *	44059 *	55053 *	68200 *	80111 *	90913 *	100436 *	108364 *	114613 *	118833 *
<b>-13.0</b>	33984 *	41343 *	50667 *	61557 *	71343 *	81659 *	90812 *	98982 *	105488 *	109691 *
<b>-15.0</b>	31875 *	38373 *	46265 *	54250 *	63005 *	71267 *	79835 *	87400 *	93587 *	98712 *
<b>-17.0</b>	29634 *	35370 *	42133 *	48921 *	54517 *	61712 *	68332 *	75069 *	81058 *	86136 *
<b>-19.5</b>	26830 *	31679 *	37261 *	42304 *	46566 *	51099 *	55596 *	60790 *	65577 *	69489 *
<b>-22.5</b>	23164 *	27208 *	31636 *	35536 *	38604 *	41627 *	44402 *	47674 *	50562 *	52696 *
<b>-25.5</b>	19618 *	23053 *	26694 *	29773 *	32104 *	34266 *	36194 *	38363 *	40258 *	41583 *
<b>-29.0</b>	15734 *	18678 *	21576 *	23817 *	25475 *	27175 *	28657 *	29957 *	31151 *	32185 *
<b>-33.0</b>	11759	14057 *	16200 *	17951 *	19226 *	20316 *	21329 *	22211 *	23019 *	23709 *
<b>-37.5</b>	7527	9160	10862	12212	13160	13977 *	14686 *	15292 *	15835 *	16265 *
<b>-42.5</b>	4137	4854	5847	6590	7220	7821	8345	8787	9140	9407
<b>-47.5</b>	3056	3203	3335	3490	3684	3855	4003	4129	4229	4303
<b>-55.0</b>	1876	1931	2010	2127	2217	2302	2371	2422	2460	2485
<b>-65.0</b>	943	984	1028	1059	1082	1101	1117	1130	1140	1147
<b>-75.0</b>	406	421	435	445	453	459	464	468	472	477
<b>-85.0</b>	108	111	113	115	116	117	120	120	120	120
<b>-90.0</b>	27	27	28	28	28	28	29	29	29	29

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-3.0</b>	<b>-1.0</b>	<b>0.0</b>	<b>1.0</b>	<b>3.0</b>	<b>5.0</b>	<b>7.0</b>	<b>9.0</b>	<b>11.0</b>	<b>13.0</b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	155	150	148	150	155	158	168	177	184	188

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**CANDELA TABULATION - (Cont.)**

55.0	1007	1006	1005	1006	1007	998	989	978	965	950
47.5	1889	1878	1872	1878	1889	1870	1854	1827	1786	1747
42.5	5223	5176	5152	5176	5223	5061	4907	4686	4416	4103
37.5	10871	11148	11223	11148	10871	10753	10525	10178	9712	9135
33.0	17859 *	18197 *	18313 *	18197 *	17859 *	17557 *	17108 *	16548 *	15865 *	15037 *
29.0	25864 *	26329 *	26490 *	26329 *	25864 *	25338 *	24547 *	23694 *	22696 *	21445 *
25.5	35064 *	35527 *	35627 *	35527 *	35064 *	34256 *	33105 *	31769 *	30115 *	28477 *
22.5	46019 *	46711 *	46521 *	46711 *	46019 *	44541 *	42791 *	40689 *	38195 *	35950 *
19.5	63007 *	64534 *	64360 *	64534 *	63007 *	59791 *	56969 *	53256 *	49085 *	45469 *
17.0	82134 *	83547 *	83345 *	83547 *	82134 *	78779 *	73725 *	68060 *	61814 *	55816 *
15.0	96213 *	98097 *	97719 *	98097 *	96213 *	92788 *	87650 *	81840 *	74360 *	65393 *
13.0	108652 *	110429 *	110375 *	110429 *	108652 *	105443 *	100927 *	94430 *	86220 *	76641 *
11.0	118581 *	120120 *	120201 *	120120 *	118581 *	116184 *	111708 *	105072 *	96796 *	86611 *
9.0	126353 *	127581 *	127802 *	127581 *	126353 *	123975 *	119585 *	114187 *	105459 *	95289 *
7.0	132311 *	133310 *	133656 *	133310 *	132311 *	129360 *	125497 *	120063 *	112682 *	103042 *
5.0	136021 *	137646 *	138111 *	137646 *	136021 *	133453 *	129752 *	124308 *	117359 *	108021 *
3.0	138160 *	138916 *	139445 *	138916 *	138160 *	136130 *	132242 *	126798 *	119980 *	111339 *
1.0	138919 *	139263 *	139362 *	139263 *	138919 *	137656 *	133647 *	128278 *	121577 *	113183 *
0.0	138972 *	139160 *	139085 *	139160 *	138972 *	137770 *	134051 *	128757 *	121888 *	113266 *
-1.0	138845 *	139157 *	139120 *	139157 *	138845 *	137678 *	133736 *	128413 *	121710 *	113288 *
-3.0	138189 *	138685 *	138917 *	138685 *	138189 *	136389 *	133048 *	127534 *	120544 *	111847 *
-5.0	136462 *	137668 *	137895 *	137668 *	136462 *	134189 *	130496 *	125496 *	118711 *	108872 *
-7.0	133247 *	134155 *	134541 *	134155 *	133247 *	130630 *	126888 *	121321 *	114272 *	104438 *
-9.0	128005 *	129262 *	129677 *	129262 *	128005 *	125786 *	121488 *	115965 *	108147 *	98681 *
-11.0	121164 *	122833 *	123325 *	122833 *	121164 *	118833 *	114613 *	108364 *	100436 *	90913 *
-13.0	112705 *	114623 *	115236 *	114623 *	112705 *	109691 *	105488 *	98982 *	90812 *	81659 *
-15.0	102190 *	104418 *	104886 *	104418 *	102190 *	98712 *	93587 *	87400 *	79835 *	71267 *
-17.0	89446 *	90900 *	90664 *	90900 *	89446 *	86136 *	81058 *	75069 *	68332 *	61712 *
-19.5	72287 *	73445 *	73099 *	73445 *	72287 *	69489 *	65577 *	60790 *	55596 *	51099 *
-22.5	53897 *	54586 *	54603 *	54586 *	53897 *	52696 *	50562 *	47674 *	44402 *	41627 *
-25.5	42425 *	42868 *	42939 *	42868 *	42425 *	41583 *	40258 *	38363 *	36194 *	34266 *
-29.0	32886 *	33226 *	33274 *	33226 *	32886 *	32185 *	31151 *	29957 *	28657 *	27175 *
-33.0	24218 *	24596 *	24717 *	24596 *	24218 *	23709 *	23019 *	22211 *	21329 *	20316 *
-37.5	16572 *	16714 *	16709 *	16714 *	16572 *	16265 *	15835 *	15292 *	14686 *	13977 *
-42.5	9703	9787	9829	9787	9703	9407	9140	8787	8345	7821
-47.5	4368	4320	4296	4320	4368	4303	4229	4129	4003	3855
-55.0	2514	2515	2515	2515	2514	2485	2460	2422	2371	2302
-65.0	1158	1163	1165	1163	1158	1147	1140	1130	1117	1101
-75.0	478	479	479	479	478	477	472	468	464	459
-85.0	122	123	124	123	122	120	120	120	120	117
-90.0	29	28	28	28	29	29	29	29	29	28

**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	1	1	1	1	1	1	1
85.0	0	0	0	1	1	1	1	2	4	5
75.0	1	3	5	6	9	15	18	25	31	34
65.0	193	196	198	195	196	194	188	180	169	155
55.0	934	916	890	852	810	759	672	582	489	404
47.5	1697	1636	1584	1547	1490	1323	1117	980	839	656
42.5	3713	3313	2974	2489	2173	1906	1746	1408	1121	934
37.5	8454	7791	6838	5600	4475	3340	2424	1975	1530	1183
33.0	14101 *	13006	11520	9826	8108	6121	4074	2588	2027	1442
29.0	19943 *	18537 *	16643 *	14359 *	11935	9456	6566	3843	2355	1809
25.5	26500 *	24357 *	21933 *	18922 *	15855 *	12542	9030	5388	2839	2137

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**CANDELA TABULATION - (Cont.)**

22.5	33234 *	30369 *	27104 *	23248 *	19458 *	15386 *	11218	6912	3408	2308
19.5	41356 *	37355 *	32631 *	27807 *	23231 *	18268 *	13491	8506	4242	2466
17.0	49001 *	43956 *	37855 *	31660 *	26333 *	20721 *	15315 *	9791	4887	2627
15.0	57419 *	49471 *	42244 *	34924 *	28828 *	22543 *	16617 *	10746	5509	2793
13.0	65783 *	56686 *	46900 *	38181 *	31231 *	24417 *	17808 *	11735	6129	2948
11.0	75190 *	63631 *	51529 *	41221 *	33513 *	26149 *	18987 *	12622	6681	3090
9.0	84143 *	71618 *	57309 *	44693 *	35866 *	27715 *	20097 *	13416	7162	3217
7.0	91420 *	78541 *	62390 *	47788 *	37902 *	29068 *	21077 *	14096 *	7570	3329
5.0	96805 *	83983 *	66280 *	50119 *	39369 *	30167 *	21889 *	14657 *	7900	3427
3.0	100465 *	87108 *	69067 *	51700 *	40443 *	30959 *	22510 *	15056 *	8243	3538
1.0	102650 *	88547 *	70508 *	52616 *	41124 *	31497 *	22867 *	15293 *	8327	3585
0.0	102539 *	88648 *	70641 *	52654 *	41306 *	31656 *	22971 *	15338 *	8369	3609
-1.0	102760 *	89157 *	71213 *	53165 *	41437 *	31722 *	22994 *	15357 *	8418	3629
-3.0	101008 *	88100 *	70423 *	52941 *	41283 *	31607 *	22891 *	15247 *	8515	3668
-5.0	97647 *	85080 *	67854 *	51600 *	40501 *	31169 *	22692 *	15103 *	8339	3638
-7.0	92656 *	80257 *	64490 *	49610 *	39316 *	30459 *	22301 *	14876 *	8157	3612
-9.0	87266 *	74513 *	60133 *	47061 *	37742 *	29536 *	21701 *	14503 *	7888	3563
-11.0	80111 *	68200 *	55053 *	44059 *	35845 *	28328 *	20861 *	13980 *	7534	3490
-13.0	71343 *	61557 *	50667 *	41343 *	33984 *	26903 *	19881 *	13296	7094	3394
-15.0	63005 *	54250 *	46265 *	38373 *	31875 *	25274 *	18864 *	12496	6568	3273
-17.0	54517 *	48921 *	42133 *	35370 *	29634 *	23659 *	17684 *	11694	6000	3129
-19.5	46566 *	42304 *	37261 *	31679 *	26830 *	21412 *	15992 *	10549	5365	3017
-22.5	38604 *	35536 *	31636 *	27208 *	23164 *	18648 *	13873	8955	4484	2939
-25.5	32104 *	29773 *	26694 *	23053 *	19618 *	15809 *	11633	7296	3859	2847
-29.0	25475 *	23817 *	21576 *	18678 *	15734 *	12684	9062	5567	3302	2551
-33.0	19226 *	17951 *	16200 *	14057 *	11759	9129	6338	4052	3061	2185
-37.5	13160	12212	10862	9160	7527	5725	4102	3248	2564	1852
-42.5	7220	6590	5847	4854	4137	3479	3172	2651	1989	1660
-47.5	3684	3490	3335	3203	3056	2755	2387	1951	1699	1303
-55.0	2217	2127	2010	1931	1876	1801	1595	1354	1122	910
-65.0	1082	1059	1028	984	943	881	807	708	603	503
-75.0	453	445	435	421	406	387	364	331	289	245
-85.0	116	115	113	111	108	103	97	89	79	69
-90.0	28	28	28	27	27	26	26	24	22	20

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	1	1	1	1	1
85.0	5	4	4	3	1
75.0	37	31	19	6	1
65.0	130	89	45	10	1
55.0	285	173	80	15	1
47.5	450	245	109	20	1
42.5	586	303	132	24	1
37.5	765	371	154	27	1
33.0	956	440	173	29	1
29.0	1117	503	191	31	1
25.5	1238	559	206	33	1
22.5	1339	603	217	34	1
19.5	1454	648	228	36	1
17.0	1559	684	237	36	1
15.0	1635	710	244	37	1
13.0	1703	735	250	38	1
11.0	1764	758	256	39	1
9.0	1818	778	262	39	1

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

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	1865	796	267	40	1
<b>5.0</b>	1903	812	274	40	1
<b>3.0</b>	1942	828	277	40	1
<b>1.0</b>	1961	837	279	40	1
<b>0.0</b>	1970	841	281	40	1
<b>-1.0</b>	1986	844	283	40	1
<b>-3.0</b>	2017	851	286	40	1
<b>-5.0</b>	2025	849	289	41	1
<b>-7.0</b>	2031	849	289	41	1
<b>-9.0</b>	2010	846	290	41	1
<b>-11.0</b>	1980	840	290	41	1
<b>-13.0</b>	1941	833	289	40	1
<b>-15.0</b>	1895	824	288	40	1
<b>-17.0</b>	1840	812	287	40	1
<b>-19.5</b>	1761	793	283	39	1
<b>-22.5</b>	1687	765	277	38	1
<b>-25.5</b>	1627	737	269	37	1
<b>-29.0</b>	1552	694	258	36	1
<b>-33.0</b>	1411	641	244	34	1
<b>-37.5</b>	1230	575	225	32	1
<b>-42.5</b>	1033	498	202	29	1
<b>-47.5</b>	856	428	175	26	1
<b>-55.0</b>	615	335	140	20	1
<b>-65.0</b>	369	215	92	13	1
<b>-75.0</b>	188	112	48	9	1
<b>-85.0</b>	52	32	17	4	1
<b>-90.0</b>	16	11	6	2	1

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 39506.21

Total Field Lumens (one side of beam only) = 34894.61

\* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
65	0.23	0.46	0.48	0.49	0.52	0.54	0.55	0.56	0.58	0.73
55	1.76	3.53	3.52	3.50	3.49	3.46	3.41	3.35	3.28	3.98
47.5	3.29	6.60	6.57	6.49	6.39	6.25	6.09	5.91	5.69	6.82
42.5	5.36	10.78	10.67	10.37	10.01	9.54	8.98	8.32	7.58	8.59
37.5	12.45	24.67	24.24	23.66	22.85	21.74	20.38	18.77	17.03	18.91
33	20.18 *	39.78 *	39.00 *	38.13 *	36.89	35.30	33.35	31.07	28.56	31.86
29	27.21 *	53.73 *	52.64 *	51.23 *	49.41 *	47.28 *	44.72 *	41.69 *	38.41 *	43.18 *
25.5	33.04 *	65.41 *	64.09 *	62.16 *	59.71 *	56.84 *	53.57 *	49.84 *	45.78 *	51.55 *
22.5	37.55 *	74.58 *	72.87 *	70.29 *	67.12 *	63.34 *	59.32 *	55.04 *	50.27 *	56.28 *
19.5	50.75 *	100.58 *	97.25 *	92.74 *	87.64 *	81.54 *	75.39 *	69.16 *	62.50 *	69.13 *
17	56.31 *	111.58 *	107.76 *	101.96 *	95.02 *	87.07 *	79.02 *	70.80 *	62.83 *	68.61 *
15	55.24 *	109.59 *	106.32 *	100.86 *	93.89 *	85.81 *	76.69 *	67.28 *	58.52 *	62.75 *
13	63.45 *	125.84 *	122.48 *	117.18 *	110.05 *	101.05 *	90.16 *	78.39 *	67.16 *	70.62 *
11	70.23 *	139.36 *	136.39 *	131.55 *	124.32 *	114.75 *	103.17 *	89.91 *	76.51 *	79.10 *
9	75.50 *	149.97 *	147.40 *	142.82 *	135.90 *	126.44 *	114.46 *	100.85 *	86.25 *	88.26 *
7	79.55 *	158.16 *	155.58 *	150.99 *	144.58 *	135.71 *	124.09 *	110.51 *	95.37 *	97.58 *
5	82.66 *	164.17 *	161.39 *	156.94 *	150.70 *	142.31 *	131.43 *	118.01 *	102.70 *	105.29 *
3	84.39 *	167.66 *	165.23 *	161.03 *	154.77 *	146.52 *	136.07 *	123.14 *	107.86 *	110.80 *
1	84.83 *	169.03 *	167.39 *	163.49 *	157.14 *	148.98 *	138.87 *	126.39 *	110.90 *	113.98 *
0	42.41 *	84.68 *	84.07 *	82.27 *	79.14 *	75.07 *	70.00 *	63.79 *	55.98 *	57.55 *
-1	42.38 *	84.65 *	84.06 *	82.28 *	79.17 *	75.11 *	70.04 *	63.82 *	56.09 *	57.79 *
	84.66 *	168.91 *	167.46 *	163.84 *	157.68 *	149.45 *	139.26 *	126.76 *	111.56 *	115.31 *

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

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	84.25 *	167.73 *	165.67 *	161.80 *	155.82 *	147.67 *	137.05 *	123.95 *	108.87 *	112.62 *
<b>-5</b>	82.89 *	164.85 *	162.42 *	158.19 *	152.09 *	143.93 *	132.97 *	119.29 *	104.13 *	107.64 *
<b>-7</b>	80.36 *	159.72 *	157.30 *	152.92 *	146.49 *	137.90 *	126.79 *	113.21 *	98.00 *	101.03 *
<b>-9</b>	76.93 *	152.59 *	150.04 *	145.63 *	138.88 *	129.86 *	118.64 *	105.50 *	90.80 *	93.25 *
<b>-11</b>	72.50 *	143.48 *	140.50 *	135.90 *	128.93 *	119.57 *	108.40 *	95.77 *	82.34 *	85.15 *
<b>-13</b>	66.88 *	132.10 *	128.62 *	123.44 *	116.27 *	107.10 *	96.41 *	84.90 *	73.25 *	76.92 *
<b>-15</b>	59.53 *	117.80 *	114.40 *	108.90 *	101.69 *	93.18 *	83.77 *	74.04 *	64.62 *	69.27 *
<b>-17</b>	62.46 *	124.08 *	120.54 *	114.46 *	106.51 *	97.41 *	88.17 *	79.02 *	70.39 *	77.12 *
<b>-19.5</b>	58.42 *	116.08 *	113.20 *	108.29 *	101.62 *	93.80 *	86.13 *	78.87 *	71.59 *	79.59 *
<b>-22.5</b>	44.55 *	88.48 *	86.87 *	84.11 *	80.02 *	74.98 *	69.94 *	64.99 *	59.74 *	67.06 *
<b>-25.5</b>	40.59 *	80.66 *	79.27 *	76.96 *	73.76 *	69.91 *	65.85 *	61.56 *	56.96 *	64.46 *
<b>-29</b>	35.28 *	69.97 *	68.67 *	66.68 *	64.15 *	61.29 *	58.09 *	54.50 *	50.64 *	57.52 *
<b>-33</b>	28.35 *	56.23 *	55.22 *	53.73 *	51.82 *	49.62 *	47.13 *	44.34 *	41.21 *	46.56 *
<b>-37.5</b>	20.19	40.16	39.46	38.36	36.99	35.33	33.39	31.16	28.68	32.10
<b>-42.5</b>	10.75	21.44	21.10	20.51	19.82	18.95	17.89	16.68	15.36	17.41
<b>-47.5</b>	7.79	15.66	15.58	15.31	14.98	14.54	14.00	13.36	12.65	14.86
<b>-55</b>	5.60	11.19	11.10	10.95	10.79	10.56	10.27	9.90	9.49	11.25
<b>-65</b>	2.50	4.99	4.95	4.90	4.84	4.77	4.68	4.57	4.45	5.36
<b>-75</b>	0.92	1.83	1.82	1.80	1.78	1.76	1.73	1.69	1.65	2.00
<b>-85</b>	0.12	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.26
<b>-90</b>										
<b>Total</b>	1854.29	3682.98	3613.82	3497.34	3333.88	3126.43	2880.51	2600.9	2296.45	2440.11

**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	0.01	0.01	0.02	0.02	0.01
<b>85</b>	0.03	0.04	0.06	0.09	0.13	0.18	0.20	0.29	0.29	0.15
<b>75</b>	0.86	0.85	0.98	1.08	1.15	1.18	1.05	1.27	1.09	0.48
<b>65</b>	4.55	4.28	4.64	4.73	4.54	4.14	3.28	3.48	2.57	1.01
<b>55</b>	7.79	7.35	7.79	7.58	7.03	6.32	4.82	4.81	3.29	1.18

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

<b>47.5</b>										
	9.16	8.03	8.16	7.95	7.35	6.34	4.78	4.69	3.01	1.03
<b>42.5</b>	19.09	15.38	14.09	12.29	10.57	8.80	6.42	6.19	3.85	1.25
<b>37.5</b>	32.42	26.30	23.50	18.75	13.93	10.65	7.49	6.99	4.33	1.33
<b>33</b>	44.66	36.92	33.76	27.38	19.10	12.61	8.22	7.61	4.59	1.36
<b>29</b>	53.64 *	44.61 *	41.29	34.35	24.31	14.72	8.61	7.88	4.55	1.33
<b>25.5</b>	58.35 *	48.51 *	44.95 *	37.73	27.32	16.22	8.63	7.53	4.27	1.24
<b>22.5</b>	70.88 *	58.69 *	54.26 *	45.71 *	33.68	20.18	10.03	8.11	4.61	1.32
<b>19.5</b>	69.29 *	56.88 *	52.45 *	44.25 *	32.95	19.99	9.57	7.24	4.13	1.17
<b>17</b>	62.56 *	50.81 *	46.64 *	39.26 *	29.36	18.04	8.51	6.15	3.49	0.98
<b>15</b>	69.20 *	55.58 *	50.71 *	42.49 *	31.84 *	19.90	9.36	6.49	3.64	1.01
<b>13</b>	75.85 *	60.16 *	54.64 *	45.61 *	34.22 *	21.68	10.15	6.79	3.77	1.04
<b>11</b>	83.07 *	64.82 *	58.40 *	48.53 *	36.44 *	23.26	10.85	7.07	3.89	1.07
<b>9</b>	90.50 *	69.39 *	61.86 *	51.14 *	38.43 *	24.64	11.45	7.31	4.00	1.09
<b>7</b>	96.64 *	73.11 *	64.68 *	53.36 *	40.13 *	25.79	11.96	7.52	4.09	1.12
<b>5</b>	101.16 *	75.81 *	66.78 *	55.10 *	41.47 *	26.74	12.44	7.72	4.17	1.14
<b>3</b>	104.03 *	77.58 *	68.24 *	56.30 *	42.37 *	27.36	12.75	7.88	4.23	1.16
<b>1</b>	52.55 *	39.17 *	34.49 *	28.45 *	21.40 *	13.80	6.43	3.97	2.13	0.58
<b>0</b>	52.82 *	39.35 *	34.62 *	28.54 *	21.45 *	13.85	6.47	4.00	2.15	0.59
<b>-1</b>	105.67 *	78.81 *	69.20 *	57.02 *	42.80 *	27.72	13.04	8.07	4.33	1.18
<b>-3</b>	103.57 *	77.77 *	68.50 *	56.58 *	42.49 *	27.53	13.01	8.11	4.37	1.18
<b>-5</b>	99.62 *	75.56 *	67.02 *	55.67 *	41.95 *	27.10	12.78	8.08	4.38	1.18
<b>-7</b>	94.39 *	72.51 *	64.94 *	54.30 *	41.06 *	26.49	12.50	8.01	4.36	1.18
<b>-9</b>	88.00 *	68.74 *	62.29 *	52.43 *	39.75 *	25.61	12.10	7.89	4.32	1.18
<b>-11</b>	81.52 *	64.79 *	59.26 *	50.11 *	38.06 *	24.44	11.58	7.72	4.25	1.17
<b>-13</b>	75.35 *	60.76 *	55.93 *	47.47 *	36.11 *	23.01	10.94	7.50	4.18	1.16
<b>-15</b>	69.16 *	56.45 *	52.33 *	44.63 *	33.99 *	21.44	10.21	7.24	4.09	1.15
<b>-17</b>	78.08 *	64.44 *	60.14 *	51.39 *	39.11 *	24.50	11.78	8.71	4.95	1.41
<b>-19.5</b>	81.76 *	68.17 *	64.01 *	54.76 *	41.44	25.68	12.76	10.08	5.71	1.65

IES FLOOD REPORT  
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LUMENS TABULATION - (Cont.)

<b>-22.5</b>	69.48 *	58.25 *	54.90 *	46.96 *	35.05	21.51	11.41	9.75	5.49	1.60
<b>-25.5</b>	67.18 *	56.30 *	52.94 *	44.94	32.86	20.44	11.83	10.72	6.14	1.78
<b>-29</b>	60.15 *	50.28 *	46.73	38.86	28.00	18.64	11.95	11.00	6.54	1.91
<b>-33</b>	48.25	39.91	36.40	29.71	22.34	16.96	11.70	10.74	6.60	1.97
<b>-37.5</b>	32.76	26.79	24.72	21.51	18.43	15.24	10.85	10.32	6.34	1.95
<b>-42.5</b>	18.38	15.91	15.91	15.39	14.21	12.09	8.95	8.67	5.35	1.69
<b>-47.5</b>	16.76	15.75	16.86	16.72	15.29	13.40	10.16	9.87	6.37	2.10
<b>-55</b>	12.70	11.97	13.03	13.27	12.49	11.04	8.45	8.56	5.83	2.03
<b>-65</b>	6.12	5.75	6.20	6.37	6.18	5.63	4.41	4.66	3.36	1.21
<b>-75</b>	2.30	2.18	2.38	2.48	2.46	2.30	1.84	1.98	1.46	0.54
<b>-85</b>	0.30	0.28	0.31	0.33	0.33	0.31	0.26	0.28	0.21	0.09
<b>-90</b>										
<b>Total</b>	2370.58	1885.01	1721.00	1451.59	1103.6	727.48	386.00	298.97	174.81	51.98

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.01	0.00	0.11	
<b>85</b>				
	0.04	0.00	1.52	
<b>75</b>				
	0.11	0.00	15.24	
<b>65</b>				
	0.20	0.00	70.69	
<b>55</b>				
	0.22	0.00	118.28	
<b>47.5</b>				
	0.19	0.00	150.89	
<b>42.5</b>				
	0.22	0.00	302.86	
<b>37.5</b>				
	0.23	0.00	480.05	
<b>33</b>				
	0.22	0.00	645.91	
<b>29</b>				
	0.21	0.00	777.48	
<b>25.5</b>				
	0.19	0.00	861.62	
<b>22.5</b>				
	0.20	0.00	1094.38	
<b>19.5</b>				
	0.18	0.00	1139.06	
<b>17</b>				
	0.15	0.00	1082.9	

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

**LUMENS TABULATION - (Cont.)**

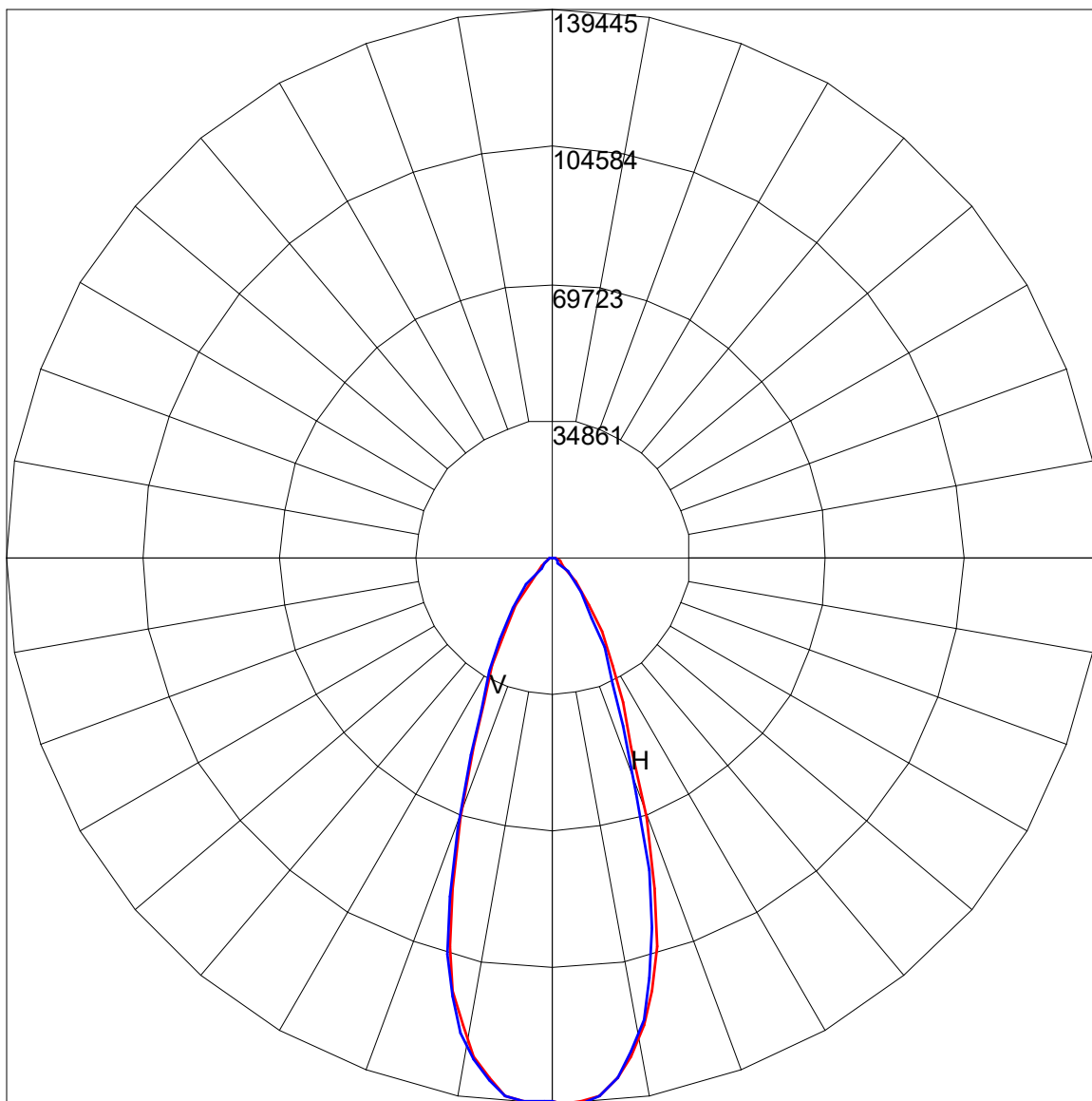
<b>15</b>	0.15	0.00	1236.75
<b>13</b>	0.15	0.00	1379.34
<b>11</b>	0.16	0.00	1505.39
<b>9</b>	0.16	0.00	1612.09
<b>7</b>	0.16	0.00	1694.18
<b>5</b>	0.17	0.00	1750.17
<b>3</b>	0.17	0.00	1783.08
<b>1</b>	0.08	0.00	898.02
<b>0</b>	0.09	0.00	899.30
<b>-1</b>	0.17	0.00	1792.92
<b>-3</b>	0.17	0.00	1768.71
<b>-5</b>	0.17	0.00	1721.92
<b>-7</b>	0.17	0.00	1653.64
<b>-9</b>	0.17	0.00	1564.6
<b>-11</b>	0.17	0.00	1455.62
<b>-13</b>	0.17	0.00	1328.49
<b>-15</b>	0.17	0.00	1188.05
<b>-17</b>	0.21	0.00	1284.89
<b>-19.5</b>	0.25	0.00	1273.88
<b>-22.5</b>	0.25	0.00	1035.4
<b>-25.5</b>	0.28	0.00	975.40
<b>-29</b>	0.30	0.00	861.14
<b>-33</b>	0.32	0.01	699.12
<b>-37.5</b>	0.32	0.01	505.08
<b>-42.5</b>	0.29	0.00	296.77
<b>-47.5</b>	0.36	0.01	262.38
<b>-55</b>	0.35	0.01	200.84
<b>-65</b>	0.21	0.00	96.14

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

**LUMENS TABULATION - (Cont.)**

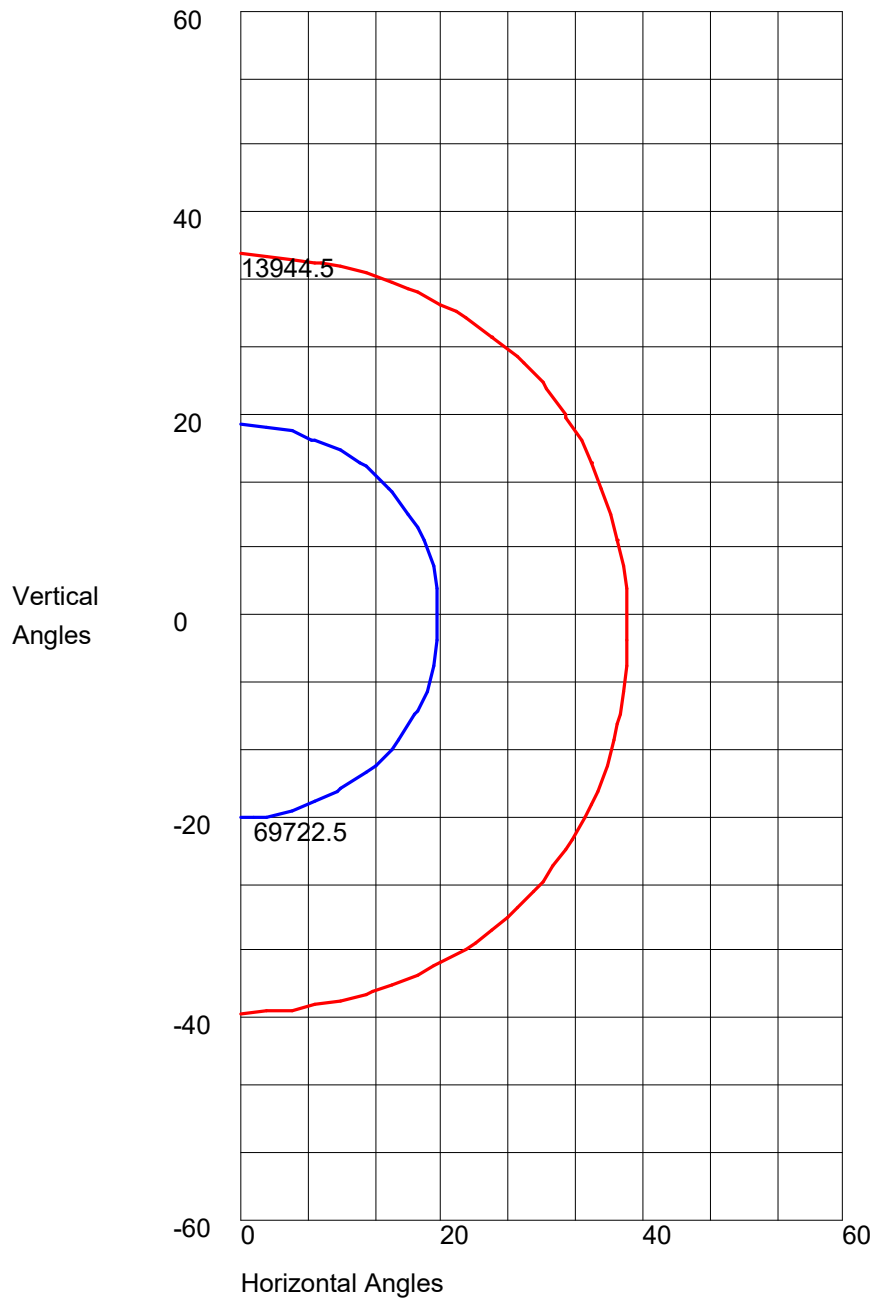
<b>-75</b>	0.10	0.00	37.01
<b>-85</b>	0.02	0.00	4.87
<b>-90</b>			
<b>Total</b>	8.31	0.15	39506.19

AXIAL CANDELA DISPLAY



Maximum Candela = 139445 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 139445 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 69722.5  
10% Maximum Candela = 13944.5