



## IES FLOOD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13021  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 10/20/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-100L-MWF-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

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

### CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	178235
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	40.4
Vertical Beam Angle (50%)	40.4
Horizontal Field Angle (10%)	78.5
Vertical Field Angle (10%)	78.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	52855
Beam Efficiency	N.A.
Field Lumens	94962
Field Efficiency	N.A.
Spill Lumens	13168
Luminaire Lumens	108130
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	94	85	95
75	520	75	516
65	1329	65	1330
55	3001	55	2989
47.5	5362	47.5	5516
42.5	11955	42.5	12113
37.5	20979	37.5	20900
33	31372	33	31252
29	42891	29	42854
25.5	55453	25.5	55927
22.5	71094	22.5	71289
19.5	94990	19.5	95061
17	117518	17	117992
15	133860	15	134254
13	146903	13	147144
11	157187	11	157509
9	165467	9	165860
7	172025	7	172346
5	176667	5	176748
3	177962	3	178082
1	178105	1	178156
0	177984	0	177984
-1	178105	-1	178156
-3	177962	-3	178082
-5	176667	-5	176748
-7	172025	-7	172346
-9	165467	-9	165860
-11	157187	-11	157509
-13	146903	-13	147144
-15	133860	-15	134254
-17	117518	-17	117992
-19.5	94990	-19.5	95061
-22.5	71094	-22.5	71289
-25.5	55453	-25.5	55927
-29	42891	-29	42854
-33	31372	-33	31252
-37.5	20979	-37.5	20900
-42.5	11955	-42.5	12113
-47.5	5362	-47.5	5516
-55	3001	-55	2989
-65	1329	-65	1330
-75	520	-75	516
-85	94	-85	95
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 178235

Beam Edge = 89117.5 Cd (50% of Max.)

Field Edge = 17823.5 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	0	0	0	0	0	0	0	0	0	0
85.0	0	6	17	28	42	54	62	70	76	80
75.0	0	17	68	138	218	278	319	357	389	416
65.0	0	28	140	290	465	607	713	829	935	1017
55.0	0	42	221	465	797	1126	1364	1625	1889	2123
47.5	0	55	281	607	1115	1630	2068	2368	2859	3306
42.5	0	62	322	713	1340	2068	2465	3200	3804	4239
37.5	0	69	361	827	1610	2346	3186	3954	5162	7311
33.0	0	75	392	928	1864	2822	3784	5146	8175	11693
29.0	0	79	419	1012	2065	3276	4197	7237	11624	16321
25.5	0	83	439	1084	2190	3630	5074	9487	14944	20205 *
22.5	0	85	454	1134	2292	3801	6003	11497	17771	23851 *
19.5	0	87	468	1185	2419	3948	7252	13593	20470 *	27538 *
17.0	0	89	479	1222	2551	4151	8180	15248	22755 *	30586 *
15.0	0	90	487	1247	2644	4421	8976	16440	24467 *	32863 *
13.0	0	91	494	1270	2725	4657	9737	17589	26002 *	35197 *
11.0	0	94	500	1289	2795	4857	10399	18572 *	27460 *	37209 *
9.0	0	94	506	1304	2854	5021	10957	19361 *	28711 *	38885 *
7.0	0	94	511	1316	2901	5149	11408	19985 *	29716 *	40360 *
5.0	0	94	517	1324	2943	5245	11749	20442 *	30495 *	41565 *
3.0	0	94	518	1332	2987	5359	12053	20757 *	31033 *	42378 *
1.0	0	94	519	1330	2996	5361	11988	20969 *	31326 *	42819 *
0.0	0	94	520	1329	3001	5362	11955	20979 *	31372 *	42891 *
-1.0	0	94	519	1330	2996	5361	11988	20969 *	31326 *	42819 *
-3.0	0	94	518	1332	2987	5359	12053	20757 *	31033 *	42378 *
-5.0	0	94	517	1324	2943	5245	11749	20442 *	30495 *	41565 *
-7.0	0	94	511	1316	2901	5149	11408	19985 *	29716 *	40360 *
-9.0	0	94	506	1304	2854	5021	10957	19361 *	28711 *	38885 *
-11.0	0	94	500	1289	2795	4857	10399	18572 *	27460 *	37209 *
-13.0	0	91	494	1270	2725	4657	9737	17589	26002 *	35197 *
-15.0	0	90	487	1247	2644	4421	8976	16440	24467 *	32863 *
-17.0	0	89	479	1222	2551	4151	8180	15248	22755 *	30586 *
-19.5	0	87	468	1185	2419	3948	7252	13593	20470 *	27538 *
-22.5	0	85	454	1134	2292	3801	6003	11497	17771	23851 *
-25.5	0	83	439	1084	2190	3630	5074	9487	14944	20205 *
-29.0	0	79	419	1012	2065	3276	4197	7237	11624	16321
-33.0	0	75	392	928	1864	2822	3784	5146	8175	11693
-37.5	0	69	361	827	1610	2346	3186	3954	5162	7311
-42.5	0	62	322	713	1340	2068	2465	3200	3804	4239
-47.5	0	55	281	607	1115	1630	2068	2368	2859	3306
-55.0	0	42	221	465	797	1126	1364	1625	1889	2123
-65.0	0	28	140	290	465	607	713	829	935	1017
-75.0	0	17	68	138	218	278	319	357	389	416
-85.0	0	6	17	28	42	54	62	70	76	80
-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	83	86	89	92	94	94	97	97	96	96
75.0	438	456	470	481	488	494	499	503	505	510
65.0	1086	1131	1183	1221	1248	1272	1289	1303	1313	1320
55.0	2224	2301	2403	2534	2630	2716	2792	2855	2904	2941
47.5	3675	3870	4042	4247	4514	4751	4955	5127	5261	5356
42.5	5147	6101	7346	8260	9062	9824	10493	11031	11444	11749
37.5	9576	11564	13597	15175	16327	17492	18498 *	19342 *	20022 *	20539 *
33.0	14976	17754	20414 *	22671 *	24278 *	25771 *	27331 *	28711 *	29749 *	30500 *
29.0	20240 *	23977 *	27651 *	30602 *	32801 *	35027 *	37072 *	38824 *	40341 *	41536 *
25.5	25370 *	30118 *	34822 *	38683 *	41735 *	44598 *	47140 *	49841 *	52139 *	53833 *
22.5	29953 *	35714 *	41565 *	46366 *	50389 *	54346 *	58012 *	62232 *	65653 *	68201 *
19.5	34637 *	41516 *	48621 *	55120 *	60761 *	66919 *	72911 *	79642 *	85247 *	89644 *
17.0	38681 *	46456 *	55183 *	63706 *	70961 *	80406 *	89137 *	97950 *	105599 *	111340 *
15.0	41862 *	50554 *	60820 *	70901 *	81632 *	92346 *	103694 *	113642 *	121445 *	127138 *
13.0	44801 *	54600 *	66809 *	80469 *	92562 *	105814 *	117635 *	127642 *	135670 *	140812 *
11.0	47326 *	58349 *	72756 *	89285 *	104081 *	117811 *	129831 *	139501 *	146976 *	152079 *
9.0	49887 *	62207 *	79465 *	98072 *	114077 *	127790 *	139503 *	149350 *	155792 *	160707 *
7.0	52009 *	65297 *	84688 *	105433 *	121711 *	135939 *	147132 *	155775 *	162743 *	167339 *
5.0	53682 *	67830 *	88723 *	110751 *	127095 *	141091 *	152513 *	160852 *	167230 *	172321 *
3.0	54806 *	69691 *	92302 *	114711 *	131013 *	144608 *	155369 *	163852 *	170666 *	174839 *
1.0	55379 *	70930 *	94462 *	116919 *	133475 *	146581 *	157125 *	165476 *	172048 *	176794 *
0.0	55453 *	71094 *	94990 *	117518 *	133860 *	146903 *	157187 *	165467 *	172025 *	176667 *
-1.0	55379 *	70930 *	94462 *	116919 *	133475 *	146581 *	157125 *	165476 *	172048 *	176794 *
-3.0	54806 *	69691 *	92302 *	114711 *	131013 *	144608 *	155369 *	163852 *	170666 *	174839 *
-5.0	53682 *	67830 *	88723 *	110751 *	127095 *	141091 *	152513 *	160852 *	167230 *	172321 *
-7.0	52009 *	65297 *	84688 *	105433 *	121711 *	135939 *	147132 *	155775 *	162743 *	167339 *
-9.0	49887 *	62207 *	79465 *	98072 *	114077 *	127790 *	139503 *	149350 *	155792 *	160707 *
-11.0	47326 *	58349 *	72756 *	89285 *	104081 *	117811 *	129831 *	139501 *	146976 *	152079 *
-13.0	44801 *	54600 *	66809 *	80469 *	92562 *	105814 *	117635 *	127642 *	135670 *	140812 *
-15.0	41862 *	50554 *	60820 *	70901 *	81632 *	92346 *	103694 *	113642 *	121445 *	127138 *
-17.0	38681 *	46456 *	55183 *	63706 *	70961 *	80406 *	89137 *	97950 *	105599 *	111340 *
-19.5	34637 *	41516 *	48621 *	55120 *	60761 *	66919 *	72911 *	79642 *	85247 *	89644 *
-22.5	29953 *	35714 *	41565 *	46366 *	50389 *	54346 *	58012 *	62232 *	65653 *	68201 *
-25.5	25370 *	30118 *	34822 *	38683 *	41735 *	44598 *	47140 *	49841 *	52139 *	53833 *
-29.0	20240 *	23977 *	27651 *	30602 *	32801 *	35027 *	37072 *	38824 *	40341 *	41536 *
-33.0	14976	17754	20414 *	22671 *	24278 *	25771 *	27331 *	28711 *	29749 *	30500 *
-37.5	9576	11564	13597	15175	16327	17492	18498 *	19342 *	20022 *	20539 *
-42.5	5147	6101	7346	8260	9062	9824	10493	11031	11444	11749
-47.5	3675	3870	4042	4247	4514	4751	4955	5127	5261	5356
-55.0	2224	2301	2403	2534	2630	2716	2792	2855	2904	2941
-65.0	1086	1131	1183	1221	1248	1272	1289	1303	1313	1320
-75.0	438	456	470	481	488	494	499	503	505	510
-85.0	83	86	89	92	94	94	97	97	96	96
-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	96	95	95	95	96	96	96	97	97	94
75.0	512	515	516	515	512	510	505	503	499	494
65.0	1329	1330	1330	1330	1329	1320	1313	1303	1289	1272

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

55.0	2979	2986	2989	2986	2979	2941	2904	2855	2792	2716
47.5	5472	5501	5516	5501	5472	5356	5261	5127	4955	4751
42.5	12078	12101	12113	12101	12078	11749	11444	11031	10493	9824
37.5	20886 *	20958 *	20900 *	20958 *	20886 *	20539 *	20022 *	19342 *	18498 *	17492
33.0	31005 *	31236 *	31252 *	31236 *	31005 *	30500 *	29749 *	28711 *	27331 *	25771 *
29.0	42333 *	42774 *	42854 *	42774 *	42333 *	41536 *	40341 *	38824 *	37072 *	35027 *
25.5	54948 *	55695 *	55927 *	55695 *	54948 *	53833 *	52139 *	49841 *	47140 *	44598 *
22.5	69875 *	71046 *	71289 *	71046 *	69875 *	68201 *	65653 *	62232 *	58012 *	54346 *
19.5	92623 *	94434 *	95061 *	94434 *	92623 *	89644 *	85247 *	79642 *	72911 *	66919 *
17.0	114965 *	117056 *	117992 *	117056 *	114965 *	111340 *	105599 *	97950 *	89137 *	80406 *
15.0	131152 *	133809 *	134254 *	133809 *	131152 *	127138 *	121445 *	113642 *	103694 *	92346 *
13.0	144482 *	146426 *	147144 *	146426 *	144482 *	140812 *	135670 *	127642 *	117635 *	105814 *
11.0	155379 *	156948 *	157509 *	156948 *	155379 *	152079 *	146976 *	139501 *	129831 *	117811 *
9.0	163897 *	165514 *	165860 *	165514 *	163897 *	160707 *	155792 *	149350 *	139503 *	127790 *
7.0	170441 *	172100 *	172346 *	172100 *	170441 *	167339 *	162743 *	155775 *	147132 *	135939 *
5.0	174748 *	176533 *	176748 *	176533 *	174748 *	172321 *	167230 *	160852 *	152513 *	141091 *
3.0	177352 *	177755 *	178082 *	177755 *	177352 *	174839 *	170666 *	163852 *	155369 *	144608 *
1.0	177928 *	178235 *	178156 *	178235 *	177928 *	176794 *	172048 *	165476 *	157125 *	146581 *
0.0	177962 *	178105 *	177984 *	178105 *	177962 *	176667 *	172025 *	165467 *	157187 *	146903 *
-1.0	177928 *	178235 *	178156 *	178235 *	177928 *	176794 *	172048 *	165476 *	157125 *	146581 *
-3.0	177352 *	177755 *	178082 *	177755 *	177352 *	174839 *	170666 *	163852 *	155369 *	144608 *
-5.0	174748 *	176533 *	176748 *	176533 *	174748 *	172321 *	167230 *	160852 *	152513 *	141091 *
-7.0	170441 *	172100 *	172346 *	172100 *	170441 *	167339 *	162743 *	155775 *	147132 *	135939 *
-9.0	163897 *	165514 *	165860 *	165514 *	163897 *	160707 *	155792 *	149350 *	139503 *	127790 *
-11.0	155379 *	156948 *	157509 *	156948 *	155379 *	152079 *	146976 *	139501 *	129831 *	117811 *
-13.0	144482 *	146426 *	147144 *	146426 *	144482 *	140812 *	135670 *	127642 *	117635 *	105814 *
-15.0	131152 *	133809 *	134254 *	133809 *	131152 *	127138 *	121445 *	113642 *	103694 *	92346 *
-17.0	114965 *	117056 *	117992 *	117056 *	114965 *	111340 *	105599 *	97950 *	89137 *	80406 *
-19.5	92623 *	94434 *	95061 *	94434 *	92623 *	89644 *	85247 *	79642 *	72911 *	66919 *
-22.5	69875 *	71046 *	71289 *	71046 *	69875 *	68201 *	65653 *	62232 *	58012 *	54346 *
-25.5	54948 *	55695 *	55927 *	55695 *	54948 *	53833 *	52139 *	49841 *	47140 *	44598 *
-29.0	42333 *	42774 *	42854 *	42774 *	42333 *	41536 *	40341 *	38824 *	37072 *	35027 *
-33.0	31005 *	31236 *	31252 *	31236 *	31005 *	30500 *	29749 *	28711 *	27331 *	25771 *
-37.5	20886 *	20958 *	20900 *	20958 *	20886 *	20539 *	20022 *	19342 *	18498 *	17492
-42.5	12078	12101	12113	12101	12078	11749	11444	11031	10493	9824
-47.5	5472	5501	5516	5501	5472	5356	5261	5127	4955	4751
-55.0	2979	2986	2989	2986	2979	2941	2904	2855	2792	2716
-65.0	1329	1330	1330	1330	1329	1320	1313	1303	1289	1272
-75.0	512	515	516	515	512	510	505	503	499	494
-85.0	96	95	95	95	96	96	96	97	97	94
-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	94	92	89	86	83	80	76	70	62	54
75.0	488	481	470	456	438	416	389	357	319	278
65.0	1248	1221	1183	1131	1086	1017	935	829	713	607
55.0	2630	2534	2403	2301	2224	2123	1889	1625	1364	1126
47.5	4514	4247	4042	3870	3675	3306	2859	2368	2068	1630
42.5	9062	8260	7346	6101	5147	4239	3804	3200	2465	2068
37.5	16327	15175	13597	11564	9576	7311	5162	3954	3186	2346
33.0	24278 *	22671 *	20414 *	17754	14976	11693	8175	5146	3784	2822
29.0	32801 *	30602 *	27651 *	23977 *	20240 *	16321	11624	7237	4197	3276
25.5	41735 *	38683 *	34822 *	30118 *	25370 *	20205 *	14944	9487	5074	3630

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

22.5	50389 *	46366 *	41565 *	35714 *	29953 *	23851 *	17771	11497	6003	3801
19.5	60761 *	55120 *	48621 *	41516 *	34637 *	27538 *	20470 *	13593	7252	3948
17.0	70961 *	63706 *	55183 *	46456 *	38681 *	30586 *	22755 *	15248	8180	4151
15.0	81632 *	70901 *	60820 *	50554 *	41862 *	32863 *	24467 *	16440	8976	4421
13.0	92562 *	80469 *	66809 *	54600 *	44801 *	35197 *	26002 *	17589	9737	4657
11.0	104081 *	89285 *	72756 *	58349 *	47326 *	37209 *	27460 *	18572 *	10399	4857
9.0	114077 *	98072 *	79465 *	62207 *	49887 *	38885 *	28711 *	19361 *	10957	5021
7.0	121711 *	105433 *	84688 *	65297 *	52009 *	40360 *	29716 *	19985 *	11408	5149
5.0	127095 *	110751 *	88723 *	67830 *	53682 *	41565 *	30495 *	20442 *	11749	5245
3.0	131013 *	114711 *	92302 *	69691 *	54806 *	42378 *	31033 *	20757 *	12053	5359
1.0	133475 *	116919 *	94462 *	70930 *	55379 *	42819 *	31326 *	20969 *	11988	5361
0.0	133860 *	117518 *	94990 *	71094 *	55453 *	42891 *	31372 *	20979 *	11955	5362
-1.0	133475 *	116919 *	94462 *	70930 *	55379 *	42819 *	31326 *	20969 *	11988	5361
-3.0	131013 *	114711 *	92302 *	69691 *	54806 *	42378 *	31033 *	20757 *	12053	5359
-5.0	127095 *	110751 *	88723 *	67830 *	53682 *	41565 *	30495 *	20442 *	11749	5245
-7.0	121711 *	105433 *	84688 *	65297 *	52009 *	40360 *	29716 *	19985 *	11408	5149
-9.0	114077 *	98072 *	79465 *	62207 *	49887 *	38885 *	28711 *	19361 *	10957	5021
-11.0	104081 *	89285 *	72756 *	58349 *	47326 *	37209 *	27460 *	18572 *	10399	4857
-13.0	92562 *	80469 *	66809 *	54600 *	44801 *	35197 *	26002 *	17589	9737	4657
-15.0	81632 *	70901 *	60820 *	50554 *	41862 *	32863 *	24467 *	16440	8976	4421
-17.0	70961 *	63706 *	55183 *	46456 *	38681 *	30586 *	22755 *	15248	8180	4151
-19.5	60761 *	55120 *	48621 *	41516 *	34637 *	27538 *	20470 *	13593	7252	3948
-22.5	50389 *	46366 *	41565 *	35714 *	29953 *	23851 *	17771	11497	6003	3801
-25.5	41735 *	38683 *	34822 *	30118 *	25370 *	20205 *	14944	9487	5074	3630
-29.0	32801 *	30602 *	27651 *	23977 *	20240 *	16321	11624	7237	4197	3276
-33.0	24278 *	22671 *	20414 *	17754	14976	11693	8175	5146	3784	2822
-37.5	16327	15175	13597	11564	9576	7311	5162	3954	3186	2346
-42.5	9062	8260	7346	6101	5147	4239	3804	3200	2465	2068
-47.5	4514	4247	4042	3870	3675	3306	2859	2368	2068	1630
-55.0	2630	2534	2403	2301	2224	2123	1889	1625	1364	1126
-65.0	1248	1221	1183	1131	1086	1017	935	829	713	607
-75.0	488	481	470	456	438	416	389	357	319	278
-85.0	94	92	89	86	83	80	76	70	62	54
-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	42	28	17	6	0
75.0	218	138	68	17	0
65.0	465	290	140	28	0
55.0	797	465	221	42	0
47.5	1115	607	281	55	0
42.5	1340	713	322	62	0
37.5	1610	827	361	69	0
33.0	1864	928	392	75	0
29.0	2065	1012	419	79	0
25.5	2190	1084	439	83	0
22.5	2292	1134	454	85	0
19.5	2419	1185	468	87	0
17.0	2551	1222	479	89	0
15.0	2644	1247	487	90	0
13.0	2725	1270	494	91	0
11.0	2795	1289	500	94	0
9.0	2854	1304	506	94	0

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

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2901	1316	511	94	0
<b>5.0</b>	2943	1324	517	94	0
<b>3.0</b>	2987	1332	518	94	0
<b>1.0</b>	2996	1330	519	94	0
<b>0.0</b>	3001	1329	520	94	0
<b>-1.0</b>	2996	1330	519	94	0
<b>-3.0</b>	2987	1332	518	94	0
<b>-5.0</b>	2943	1324	517	94	0
<b>-7.0</b>	2901	1316	511	94	0
<b>-9.0</b>	2854	1304	506	94	0
<b>-11.0</b>	2795	1289	500	94	0
<b>-13.0</b>	2725	1270	494	91	0
<b>-15.0</b>	2644	1247	487	90	0
<b>-17.0</b>	2551	1222	479	89	0
<b>-19.5</b>	2419	1185	468	87	0
<b>-22.5</b>	2292	1134	454	85	0
<b>-25.5</b>	2190	1084	439	83	0
<b>-29.0</b>	2065	1012	419	79	0
<b>-33.0</b>	1864	928	392	75	0
<b>-37.5</b>	1610	827	361	69	0
<b>-42.5</b>	1340	713	322	62	0
<b>-47.5</b>	1115	607	281	55	0
<b>-55.0</b>	797	465	221	42	0
<b>-65.0</b>	465	290	140	28	0
<b>-75.0</b>	218	138	68	17	0
<b>-85.0</b>	42	28	17	6	0
<b>-90.0</b>	0	0	0	0	0

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 54065.13

Total Field Lumens (one side of beam only) = 47480.98

\* 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	0.07	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14
75	0.93	1.85	1.84	1.83	1.81	1.79	1.76	1.73	1.69	2.05
65	2.81	5.61	5.58	5.53	5.47	5.39	5.29	5.18	5.03	6.07
55	6.58	13.13	13.02	12.84	12.63	12.36	12.02	11.62	11.17	13.27
47.5	9.70	19.34	19.08	18.70	18.26	17.69	17.00	16.19	15.29	17.93
42.5	13.41	26.75	26.33	25.61	24.78	23.70	22.36	20.80	19.09	21.60
37.5	25.16	50.25	49.57	48.28	46.63	44.52	41.94	38.94	35.74	40.12
33	35.76 *	71.29 *	70.37 *	68.71 *	66.39 *	63.36 *	59.73 *	55.77 *	51.68 *	58.46 *
29	45.12 *	89.71 *	88.35 *	86.11 *	83.03 *	79.16 *	74.61 *	69.68 *	64.62 *	73.29 *
25.5	52.57 *	104.28 *	102.44 *	99.59 *	95.62 *	90.75 *	85.43 *	79.74 *	73.69 *	83.37 *
22.5	58.02 *	114.87 *	112.51 *	108.98 *	104.00 *	97.74 *	91.21 *	84.71 *	77.81 *	87.56 *
19.5	75.81 *	149.76 *	146.01 *	140.29 *	132.47 *	122.75 *	112.71 *	103.04 *	93.39 *	103.96 *
17	80.82 *	159.47 *	155.19 *	148.37 *	138.92 *	127.35 *	115.22 *	103.09 *	91.70 *	100.63 *
15	76.62 *	151.29 *	147.25 *	141.02 *	132.31 *	121.32 *	108.92 *	96.16 *	84.09 *	90.62 *
13	85.54 *	169.22 *	165.17 *	159.06 *	150.34 *	138.77 *	124.98 *	110.05 *	95.33 *	100.88 *
11	92.60 *	183.63 *	180.11 *	174.35 *	165.84 *	154.37 *	140.36 *	124.21 *	107.28 *	111.85 *
9	98.36 *	195.36 *	192.06 *	186.47 *	178.45 *	167.44 *	153.42 *	137.07 *	118.74 *	122.79 *
7	102.93 *	204.55 *	201.27 *	195.87 *	188.12 *	177.51 *	163.98 *	147.63 *	128.63 *	132.94 *
5	106.26 *	211.21 *	208.10 *	202.85 *	195.04 *	184.87 *	171.82 *	155.41 *	136.15 *	140.87 *
3	108.00 *	215.04 *	212.48 *	207.53 *	199.87 *	189.76 *	176.85 *	160.72 *	141.59 *	146.98 *
1	108.47 *	216.52 *	214.80 *	210.34 *	202.71 *	192.53 *	179.86 *	164.23 *	145.26 *	151.29 *
0	54.26 *	108.41 *	107.77 *	105.65 *	101.81 *	96.78 *	90.55 *	82.88 *	73.46 *	76.64 *
-1	54.26 *	108.41 *	107.77 *	105.65 *	101.81 *	96.78 *	90.55 *	82.88 *	73.46 *	76.64 *
	108.47 *	216.52 *	214.80 *	210.34 *	202.71 *	192.53 *	179.86 *	164.23 *	145.26 *	151.29 *

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

<b>-3</b>	108.00 *	215.04 *	212.48 *	207.53 *	199.87 *	189.76 *	176.85 *	160.72 *	141.59 *	146.98 *
<b>-5</b>	106.26 *	211.21 *	208.10 *	202.85 *	195.04 *	184.87 *	171.82 *	155.41 *	136.15 *	140.87 *
<b>-7</b>	102.93 *	204.55 *	201.27 *	195.87 *	188.12 *	177.51 *	163.98 *	147.63 *	128.63 *	132.94 *
<b>-9</b>	98.36 *	195.36 *	192.06 *	186.47 *	178.45 *	167.44 *	153.42 *	137.07 *	118.74 *	122.79 *
<b>-11</b>	92.60 *	183.63 *	180.11 *	174.35 *	165.84 *	154.37 *	140.36 *	124.21 *	107.28 *	111.85 *
<b>-13</b>	85.54 *	169.22 *	165.17 *	159.06 *	150.34 *	138.77 *	124.98 *	110.05 *	95.33 *	100.88 *
<b>-15</b>	76.62 *	151.29 *	147.25 *	141.02 *	132.31 *	121.32 *	108.92 *	96.16 *	84.09 *	90.62 *
<b>-17</b>	80.82 *	159.47 *	155.19 *	148.37 *	138.92 *	127.35 *	115.22 *	103.09 *	91.70 *	100.63 *
<b>-19.5</b>	75.81 *	149.76 *	146.01 *	140.29 *	132.47 *	122.75 *	112.71 *	103.04 *	93.39 *	103.96 *
<b>-22.5</b>	58.02 *	114.87 *	112.51 *	108.98 *	104.00 *	97.74 *	91.21 *	84.71 *	77.81 *	87.56 *
<b>-25.5</b>	52.57 *	104.28 *	102.44 *	99.59 *	95.62 *	90.75 *	85.43 *	79.74 *	73.69 *	83.37 *
<b>-29</b>	45.12 *	89.71 *	88.35 *	86.11 *	83.03 *	79.16 *	74.61 *	69.68 *	64.62 *	73.29 *
<b>-33</b>	35.76 *	71.29 *	70.37 *	68.71 *	66.39 *	63.36 *	59.73 *	55.77 *	51.68 *	58.46 *
<b>-37.5</b>	25.16	50.25	49.57	48.28	46.63	44.52	41.94	38.94	35.74	40.12
<b>-42.5</b>	13.41	26.75	26.33	25.61	24.78	23.70	22.36	20.80	19.09	21.60
<b>-47.5</b>	9.70	19.34	19.08	18.70	18.26	17.69	17.00	16.19	15.29	17.93
<b>-55</b>	6.58	13.13	13.02	12.84	12.63	12.36	12.02	11.62	11.17	13.27
<b>-65</b>	2.81	5.61	5.58	5.53	5.47	5.39	5.29	5.18	5.03	6.07
<b>-75</b>	0.93	1.85	1.84	1.83	1.81	1.79	1.76	1.73	1.69	2.05
<b>-85</b>	0.07	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.16
<b>-90</b>										
<b>Total</b>	2479.61	4923.36	4838.9	4696.26	4489.28	4220.14	3900.35	3537.98	3143.18	3366.65

**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>	0.19	0.18	0.19	0.20	0.20	0.19	0.16	0.17	0.13	0.06
<b>85</b>	2.35	2.22	2.41	2.51	2.50	2.36	1.92	2.11	1.62	0.65
<b>75</b>	6.91	6.49	7.01	7.20	7.02	6.47	5.16	5.60	4.23	1.65
<b>65</b>	14.97	14.07	15.28	15.57	14.77	13.21	10.26	10.70	7.67	2.90
<b>55</b>	20.18	18.89	20.13	19.93	18.34	16.24	12.49	12.51	8.51	3.07

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

<b>47.5</b>										
	22.78	19.61	19.39	18.55	17.11	14.73	11.08	10.99	7.18	2.50
<b>42.5</b>										
	41.17	33.79	31.12	26.78	22.55	18.67	13.55	13.15	8.54	2.89
<b>37.5</b>										
	60.78	50.59	46.44	37.99	28.25	21.09	14.70	13.89	8.95	2.94
<b>33</b>										
	76.60 *	64.23 *	59.92	49.93	36.02	23.75	15.16	14.33	8.93	2.86
<b>29</b>										
	87.01 *	72.83 *	68.11 *	57.65	42.39	26.53	15.24	13.96	8.45	2.69
<b>25.5</b>										
	90.99 *	75.85 *	70.64 *	60.12 *	45.07	28.05	14.94	12.77	7.64	2.43
<b>22.5</b>										
	107.11 *	88.79 *	82.43 *	70.20 *	53.16	33.54	16.96	13.35	8.02	2.53
<b>19.5</b>										
	102.25 *	84.15 *	77.85 *	66.14 *	50.41 *	32.27	15.83	11.67	7.01	2.18
<b>17</b>										
	90.86 *	74.11 *	68.23 *	57.78 *	44.16 *	28.49	13.85	9.84	5.83	1.79
<b>15</b>										
	99.29 *	80.06 *	73.31 *	61.89 *	47.28 *	30.76	14.96	10.32	6.00	1.82
<b>13</b>										
	107.70 *	85.59 *	77.96 *	65.72 *	50.15 *	32.83	15.96	10.74	6.14	1.85
<b>11</b>										
	116.35 *	90.89 *	82.12 *	69.06 *	52.66 *	34.58	16.81	11.09	6.27	1.87
<b>9</b>										
	124.40 *	95.75 *	85.83 *	71.88 *	54.71 *	35.99	17.51	11.38	6.37	1.89
<b>7</b>										
	130.75 *	99.68 *	88.90 *	74.21 *	56.31 *	37.08	18.06	11.60	6.45	1.91
<b>5</b>										
	135.87 *	102.68 *	91.18 *	75.95 *	57.48 *	37.91	18.52	11.81	6.53	1.92
<b>3</b>										
	139.64 *	104.68 *	92.58 *	77.04 *	58.24 *	38.35	18.71	11.93	6.58	1.92
<b>1</b>										
	70.69 *	52.77 *	46.57 *	38.74 *	29.28 *	19.21	9.33	5.97	3.29	0.96
<b>0</b>										
	70.69 *	52.77 *	46.57 *	38.74 *	29.28 *	19.21	9.33	5.97	3.29	0.96
<b>-1</b>										
	139.64 *	104.68 *	92.58 *	77.04 *	58.24 *	38.35	18.71	11.93	6.58	1.92
<b>-3</b>										
	135.87 *	102.68 *	91.18 *	75.95 *	57.48 *	37.91	18.52	11.81	6.53	1.92
<b>-5</b>										
	130.75 *	99.68 *	88.90 *	74.21 *	56.31 *	37.08	18.06	11.60	6.45	1.91
<b>-7</b>										
	124.40 *	95.75 *	85.83 *	71.88 *	54.71 *	35.99	17.51	11.38	6.37	1.89
<b>-9</b>										
	116.35 *	90.89 *	82.12 *	69.06 *	52.66 *	34.58	16.81	11.09	6.27	1.87
<b>-11</b>										
	107.70 *	85.59 *	77.96 *	65.72 *	50.15 *	32.83	15.96	10.74	6.14	1.85
<b>-13</b>										
	99.29 *	80.06 *	73.31 *	61.89 *	47.28 *	30.76	14.96	10.32	6.00	1.82
<b>-15</b>										
	90.86 *	74.11 *	68.23 *	57.78 *	44.16 *	28.49	13.85	9.84	5.83	1.79
<b>-17</b>										
	102.25 *	84.15 *	77.85 *	66.14 *	50.41 *	32.27	15.83	11.67	7.01	2.18
<b>-19.5</b>										
	107.11 *	88.79 *	82.43 *	70.20 *	53.16	33.54	16.96	13.35	8.02	2.53

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

<b>-22.5</b>	90.99 *	75.85 *	70.64 *	60.12 *	45.07	28.05	14.94	12.77	7.64	2.43
<b>-25.5</b>	87.01 *	72.83 *	68.11 *	57.65	42.39	26.53	15.24	13.96	8.45	2.69
<b>-29</b>	76.60 *	64.23 *	59.92	49.93	36.02	23.75	15.16	14.33	8.93	2.86
<b>-33</b>	60.78	50.59	46.44	37.99	28.25	21.09	14.70	13.89	8.95	2.94
<b>-37.5</b>	41.17	33.79	31.12	26.78	22.55	18.67	13.55	13.15	8.54	2.89
<b>-42.5</b>	22.78	19.61	19.39	18.55	17.11	14.73	11.08	10.99	7.18	2.50
<b>-47.5</b>	20.18	18.89	20.13	19.93	18.34	16.24	12.49	12.51	8.51	3.07
<b>-55</b>	14.97	14.07	15.28	15.57	14.77	13.21	10.26	10.70	7.67	2.90
<b>-65</b>	6.91	6.49	7.01	7.20	7.02	6.47	5.16	5.60	4.23	1.65
<b>-75</b>	2.35	2.22	2.41	2.51	2.50	2.36	1.92	2.11	1.62	0.65
<b>-85</b>	0.19	0.18	0.19	0.20	0.20	0.19	0.16	0.17	0.13	0.06
<b>-90</b>										
<b>Total</b>	3297.63	2635.77	2415.22	2050.06	1576.14	1064.59	582.34	459.81	280.68	90.59

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.02	0.00		3.07
<b>85</b>				
	0.14	0.00		38.08
<b>75</b>				
	0.33	0.01		110.03
<b>65</b>				
	0.57	0.01		238.62
<b>55</b>				
	0.59	0.01		320.09
<b>47.5</b>				
	0.48	0.01		368.83
<b>42.5</b>				
	0.54	0.01		633.91
<b>37.5</b>				
	0.53	0.01		887.68
<b>33</b>				
	0.51	0.01		1105.9
<b>29</b>				
	0.47	0.01		1262.82
<b>25.5</b>				
	0.42	0.01		1346.36
<b>22.5</b>				
	0.43	0.01		1656.72
<b>19.5</b>				
	0.37	0.01		1670.92
<b>17</b>				
	0.30	0.01		1544.83

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

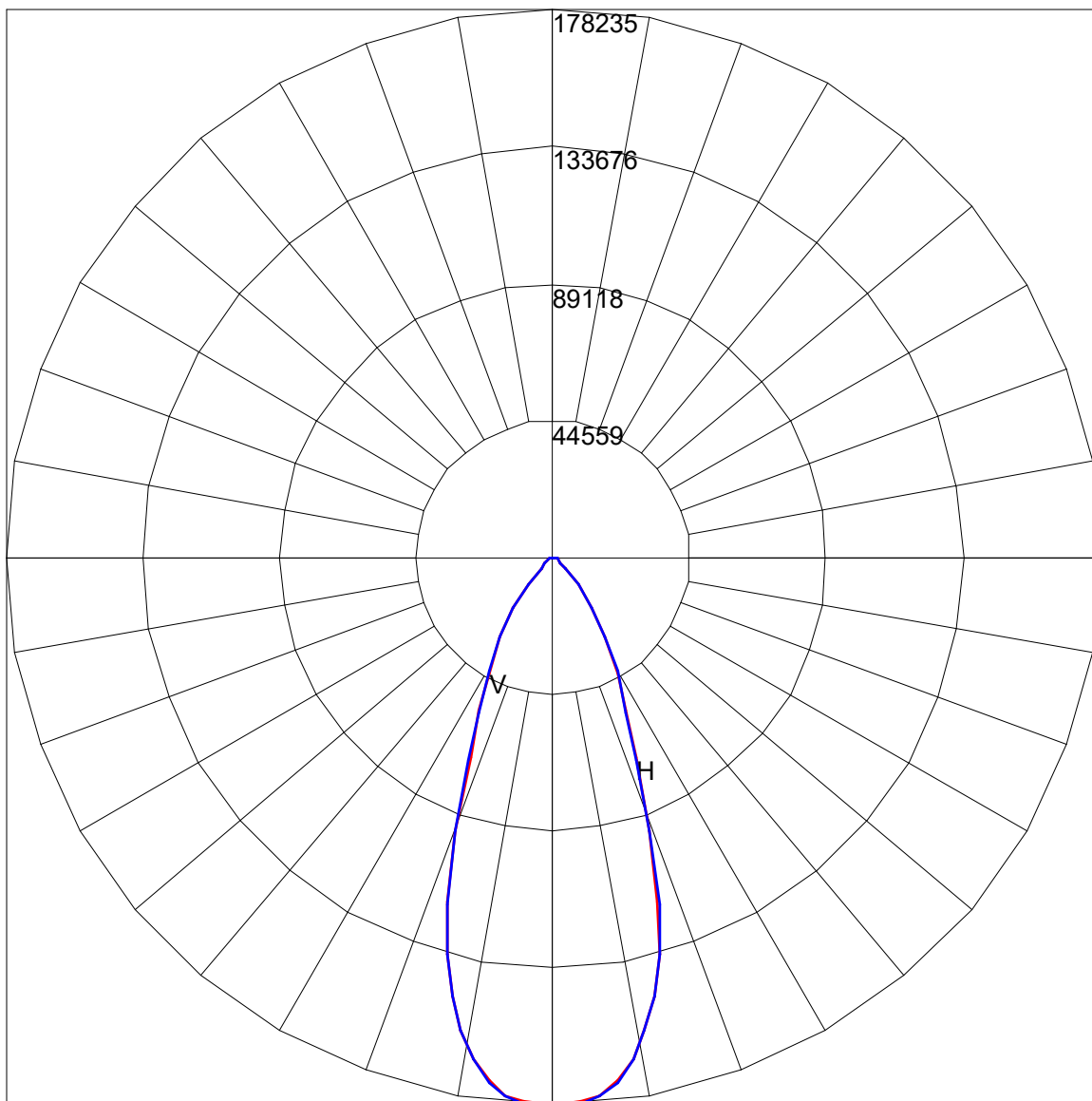
<b>15</b>			
	0.31	0.01	1725.34
<b>13</b>			
	0.31	0.01	1889.58
<b>11</b>			
	0.32	0.01	2032.18
<b>9</b>			
	0.32	0.01	2149.47
<b>7</b>			
	0.32	0.01	2237.87
<b>5</b>			
	0.32	0.01	2299.00
<b>3</b>			
	0.32	0.01	2336.05
<b>1</b>			
	0.16	0.00	1175.17
<b>0</b>			
	0.16	0.00	1175.17
<b>-1</b>			
	0.32	0.01	2336.05
<b>-3</b>			
	0.32	0.01	2299.00
<b>-5</b>			
	0.32	0.01	2237.87
<b>-7</b>			
	0.32	0.01	2149.47
<b>-9</b>			
	0.32	0.01	2032.18
<b>-11</b>			
	0.31	0.01	1889.58
<b>-13</b>			
	0.31	0.01	1725.34
<b>-15</b>			
	0.30	0.01	1544.83
<b>-17</b>			
	0.37	0.01	1670.92
<b>-19.5</b>			
	0.43	0.01	1656.72
<b>-22.5</b>			
	0.42	0.01	1346.36
<b>-25.5</b>			
	0.47	0.01	1262.82
<b>-29</b>			
	0.51	0.01	1105.9
<b>-33</b>			
	0.53	0.01	887.68
<b>-37.5</b>			
	0.54	0.01	633.91
<b>-42.5</b>			
	0.48	0.01	368.83
<b>-47.5</b>			
	0.59	0.01	320.09
<b>-55</b>			
	0.57	0.01	238.62
<b>-65</b>			
	0.33	0.01	110.03

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

**LUMENS TABULATION - (Cont.)**

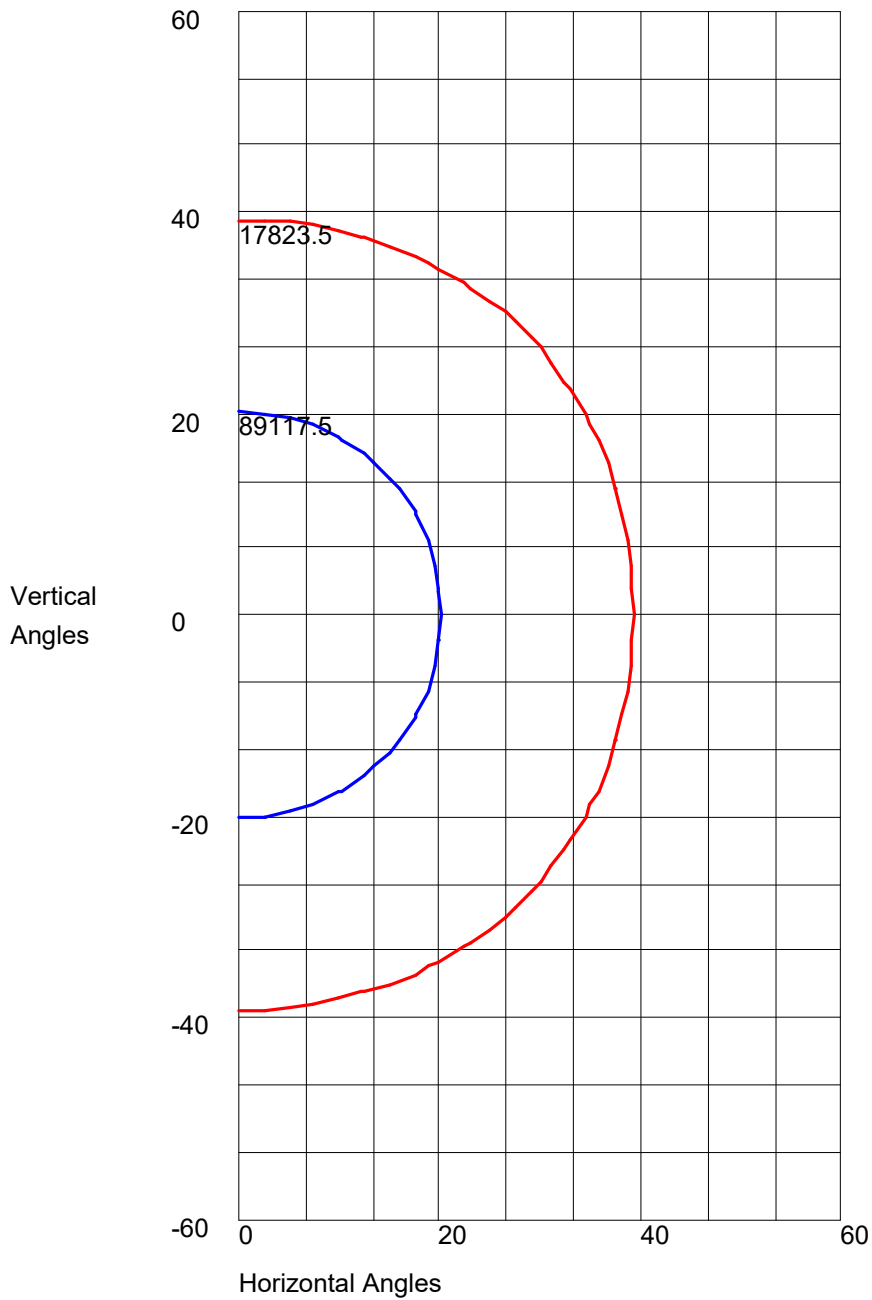
<b>-75</b>	0.14	0.00	38.08
<b>-85</b>	0.02	0.00	3.07
<b>-90</b>			
<b>Total</b>	16.18	0.33	54065.03

AXIAL CANDELA DISPLAY



Maximum Candela = 178235 Located At Horizontal Angle =-1, Vertical Angle =-1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 178235 Located At Horizontal Angle =-1, Vertical Angle =-1  
50% Maximum Candela = 89117.5  
10% Maximum Candela = 17823.5