



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-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-100L-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	172629
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	48770
Beam Efficiency	N.A.
Field Lumens	86397
Field Efficiency	N.A.
Spill Lumens	11418
Luminaire Lumens	97815
Total Efficiency	N.A.
Total Luminaire Watts	767
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	1	90	0
85	49	85	0
75	348	75	0
65	1041	65	183
55	2439	55	1244
47.5	4468	47.5	2318
42.5	10361	42.5	6379
37.5	18987	37.5	13893
33	28439	33	22671
29	39189	29	32794
25.5	51136	25.5	44105
22.5	65185	22.5	57591
19.5	87451	19.5	79675
17	109744	17	103180
15	126940	15	120974
13	140220	13	136642
11	150894	11	148805
9	159398	9	158215
7	165950	7	165462
5	170556	5	170977
3	172042	3	172629
1	172275	1	172527
0	172183	0	172183
-1	172275	-1	172226
-3	172042	-3	171974
-5	170556	-5	170710
-7	165950	-7	166557
-9	159398	-9	160536
-11	150894	-11	152673
-13	140220	-13	142658
-15	126940	-15	129845
-17	109744	-17	112239
-19.5	87451	-19.5	90495
-22.5	65185	-22.5	67597
-25.5	51136	-25.5	53157
-29	39189	-29	41193
-33	28439	-33	30599
-37.5	18987	-37.5	20685
-42.5	10361	-42.5	12169
-47.5	4468	-47.5	5319
-55	2439	-55	3113
-65	1041	-65	1442
-75	348	-75	593
-85	49	-85	153
-90	1	-90	35

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**CANDELA TABULATION**

Maximum Candela = 172629

Beam Edge = 86314.5 Cd (50% of Max.)

Field Edge = 17262.9 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>-90.0</b>	<b>-85.0</b>	<b>-75.0</b>	<b>-65.0</b>	<b>-55.0</b>	<b>-47.5</b>	<b>-42.5</b>	<b>-37.5</b>	<b>-33.0</b>	<b>-29.0</b>
<b>90.0</b>	1	1	1	1	1	1	1	1	1	1
<b>85.0</b>	1	3	5	5	6	6	5	3	2	1
<b>75.0</b>	1	7	23	38	45	41	38	31	22	18
<b>65.0</b>	1	11	56	111	161	192	209	222	232	240
<b>55.0</b>	1	18	99	214	353	499	605	721	832	940
<b>47.5</b>	1	25	135	303	556	812	1039	1214	1382	1638
<b>42.5</b>	1	29	163	375	725	1156	1387	1743	2161	2360
<b>37.5</b>	1	33	191	460	948	1465	1894	2445	3001	4135
<b>33.0</b>	1	36	215	545	1183	1786	2510	3204	5043	7578
<b>29.0</b>	1	39	237	623	1382	2240	2915	4757	8128	11706
<b>25.5</b>	1	41	255	693	1532	2646	3515	6670	11178	15527
<b>22.5</b>	1	42	269	746	1658	2858	4218	8557	13887	19047 *
<b>19.5</b>	1	44	283	803	1800	3053	5251	10530	16702	22616 *
<b>17.0</b>	1	45	294	846	1930	3252	6051	12120	18961 *	25651 *
<b>15.0</b>	1	46	303	879	2024	3458	6822	13303	20572 *	27908 *
<b>13.0</b>	1	46	311	909	2109	3649	7588	14527	22046 *	30228 *
<b>11.0</b>	1	48	318	938	2184	3825	8271	15625	23505 *	32372 *
<b>9.0</b>	1	48	325	963	2251	3983	8867	16609	24879 *	34311 *
<b>7.0</b>	1	49	331	985	2308	4121	9371	17451 *	26093 *	35985 *
<b>5.0</b>	1	49	339	1004	2356	4242	9780	18144 *	27098 *	37346 *
<b>3.0</b>	1	49	343	1025	2405	4380	10205	18639 *	27866 *	38326 *
<b>1.0</b>	1	49	346	1035	2428	4438	10309	18932 *	28309 *	38992 *
<b>0.0</b>	1	49	348	1041	2439	4468	10361	18987 *	28439 *	39189 *
<b>-1.0</b>	1	49	350	1045	2458	4492	10421	19010 *	28467 *	39271 *
<b>-3.0</b>	1	50	354	1053	2497	4540	10541	18875 *	28339 *	39128 *
<b>-5.0</b>	1	50	358	1051	2507	4503	10322	18697 *	28092 *	38586 *
<b>-7.0</b>	1	50	357	1050	2515	4470	10098	18417 *	27608 *	37707 *
<b>-9.0</b>	1	51	358	1047	2489	4410	9765	17955 *	26865 *	36564 *
<b>-11.0</b>	1	51	359	1039	2451	4320	9326	17307 *	25825 *	35070 *
<b>-13.0</b>	1	49	358	1032	2404	4201	8781	16460	24612 *	33306 *
<b>-15.0</b>	1	49	357	1020	2346	4052	8130	15469	23354 *	31289 *
<b>-17.0</b>	1	49	355	1005	2279	3874	7427	14477	21893 *	29290 *
<b>-19.5</b>	1	48	350	982	2181	3735	6641	13059	19797 *	26508 *
<b>-22.5</b>	1	47	342	948	2088	3639	5552	11087	17174	23087 *
<b>-25.5</b>	1	46	333	913	2015	3525	4778	9033	14401	19572 *
<b>-29.0</b>	1	45	319	859	1922	3158	4087	6891	11219	15703
<b>-33.0</b>	1	43	302	794	1747	2704	3790	5017	7846	11301
<b>-37.5</b>	1	40	279	711	1523	2293	3173	4021	5078	7087
<b>-42.5</b>	1	36	250	616	1279	2056	2462	3282	3927	4308
<b>-47.5</b>	1	32	217	530	1059	1613	2104	2415	2955	3411
<b>-55.0</b>	1	25	173	415	762	1127	1389	1677	1975	2229
<b>-65.0</b>	1	18	113	267	457	624	746	877	999	1090
<b>-75.0</b>	1	12	58	140	232	304	359	410	451	479
<b>-85.0</b>	1	6	20	40	65	85	97	110	120	127
<b>-90.0</b>	1	3	7	13	21	25	27	29	31	32

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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	1	1	0	0	0	0	0	0	0	0
85.0	1	1	0	0	0	0	0	0	0	0
75.0	12	8	6	3	1	0	0	0	0	0
65.0	242	242	244	242	238	233	227	219	208	195
55.0	1003	1055	1102	1134	1157	1176	1195	1211	1225	1236
47.5	1845	1915	1962	2025	2101	2163	2212	2261	2296	2315
42.5	2690	3081	3681	4101	4597	5079	5467	5801	6075	6266
37.5	5540	6933	8466	9646	10466	11309	12022	12600	13029	13312
33.0	10037	12164	14261	16101	17455 *	18615 *	19640 *	20486 *	21179 *	21735 *
29.0	14775	17777 *	20604 *	22949 *	24689 *	26548 *	28096 *	29331 *	30388 *	31367 *
25.5	19628 *	23424 *	27152 *	30154 *	32807 *	35254 *	37282 *	39329 *	40983 *	42408 *
22.5	24088 *	28779 *	33554 *	37596 *	41142 *	44504 *	47283 *	50372 *	52973 *	55140 *
19.5	28758 *	34424 *	40397 *	46245 *	51197 *	56289 *	60766 *	65929 *	70526 *	74019 *
17.0	32600 *	39194 *	46864 *	54416 *	60662 *	69098 *	76523 *	84255 *	91269 *	97526 *
15.0	35688 *	43234 *	52297 *	61244 *	71083 *	80954 *	92054 *	101315 *	108508 *	114868 *
13.0	38662 *	47266 *	58061 *	70175 *	81437 *	94879 *	106737 *	116901 *	124945 *	130535 *
11.0	41487 *	51029 *	63791 *	78774 *	93083 *	107222 *	119831 *	130076 *	138291 *	143832 *
9.0	44401 *	55328 *	70947 *	88661 *	104166 *	117964 *	130555 *	141360 *	148042 *	153477 *
7.0	46922 *	59160 *	77237 *	97231 *	113175 *	127563 *	139498 *	148636 *	155363 *	160143 *
5.0	48738 *	62045 *	82054 *	103968 *	119841 *	133727 *	145287 *	153890 *	160630 *	165211 *
3.0	50067 *	64003 *	85502 *	107837 *	124373 *	137834 *	148531 *	156972 *	163712 *	168525 *
1.0	50910 *	65137 *	87286 *	109618 *	127077 *	140117 *	150508 *	158804 *	165451 *	170416 *
0.0	51136 *	65185 *	87451 *	109744 *	126940 *	140220 *	150894 *	159398 *	165950 *	170556 *
-1.0	51298 *	65817 *	88159 *	110375 *	127214 *	140247 *	150673 *	158971 *	165562 *	170442 *
-3.0	51108 *	65539 *	87181 *	109065 *	125045 *	138463 *	149230 *	157883 *	164710 *	168846 *
-5.0	50140 *	63880 *	84001 *	105327 *	120885 *	134780 *	146961 *	155360 *	161551 *	166123 *
-7.0	48672 *	61416 *	79836 *	99356 *	114705 *	129290 *	141466 *	150191 *	157085 *	161717 *
-9.0	46724 *	58260 *	74443 *	92245 *	108033 *	122165 *	133882 *	143561 *	150399 *	155719 *
-11.0	44375 *	54544 *	68154 *	84430 *	99174 *	112548 *	124337 *	134152 *	141888 *	147111 *
-13.0	42072 *	51182 *	62723 *	76206 *	88321 *	101092 *	112422 *	122537 *	130590 *	135794 *
-15.0	39461 *	47505 *	57275 *	67159 *	77999 *	88228 *	98834 *	108199 *	115858 *	122202 *
-17.0	36687 *	43786 *	52159 *	60563 *	67490 *	76398 *	84595 *	92934 *	100347 *	106633 *
-19.5	33215 *	39217 *	46126 *	52371 *	57647 *	63258 *	68826 *	75258 *	81183 *	86026 *
-22.5	28676 *	33683 *	39164 *	43991 *	47790 *	51532 *	54968 *	59019 *	62595 *	65236 *
-25.5	24287 *	28539 *	33046 *	36857 *	39743 *	42420 *	44807 *	47492 *	49839 *	51479 *
-29.0	19478 *	23123 *	26710 *	29484 *	31536 *	33641 *	35476 *	37086 *	38564 *	39844 *
-33.0	14557	17402 *	20054 *	22223 *	23801 *	25150 *	26405 *	27496 *	28497 *	29351 *
-37.5	9318	11339	13447	15119	16293	17303 *	18181 *	18930 *	19604 *	20136 *
-42.5	5123	6009	7238	8158	8939	9682	10331	10877	11315	11646
-47.5	3783	3965	4130	4321	4560	4772	4955	5111	5235	5327
-55.0	2322	2389	2488	2632	2744	2851	2936	2999	3046	3077
-65.0	1167	1219	1272	1312	1339	1363	1383	1399	1411	1420
-75.0	503	521	539	551	561	568	574	579	584	590
-85.0	134	137	140	142	143	144	148	148	148	148
-90.0	33	34	34	35	35	35	36	36	36	36

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	0	0	0	0	0	0	0	0	0	0
65.0	192	186	183	186	192	195	208	219	227	233

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**CANDELA TABULATION - (Cont.)**

55.0	1247	1245	1244	1245	1247	1236	1225	1211	1195	1176
47.5	2339	2325	2318	2325	2339	2315	2296	2261	2212	2163
42.5	6466	6408	6379	6408	6466	6266	6075	5801	5467	5079
37.5	13457	13800	13893	13800	13457	13312	13029	12600	12022	11309
33.0	22110 *	22528 *	22671 *	22528 *	22110 *	21735 *	21179 *	20486 *	19640 *	18615 *
29.0	32020 *	32595 *	32794 *	32595 *	32020 *	31367 *	30388 *	29331 *	28096 *	26548 *
25.5	43408 *	43981 *	44105 *	43981 *	43408 *	42408 *	40983 *	39329 *	37282 *	35254 *
22.5	56969 *	57826 *	57591 *	57826 *	56969 *	55140 *	52973 *	50372 *	47283 *	44504 *
19.5	78000 *	79891 *	79675 *	79891 *	78000 *	74019 *	70526 *	65929 *	60766 *	56289 *
17.0	101680 *	103430 *	103180 *	103430 *	101680 *	97526 *	91269 *	84255 *	76523 *	69098 *
15.0	119109 *	121442 *	120974 *	121442 *	119109 *	114868 *	108508 *	101315 *	92054 *	80954 *
13.0	134508 *	136709 *	136642 *	136709 *	134508 *	130535 *	124945 *	116901 *	106737 *	94879 *
11.0	146799 *	148705 *	148805 *	148705 *	146799 *	143832 *	138291 *	130076 *	119831 *	107222 *
9.0	156422 *	157941 *	158215 *	157941 *	156422 *	153477 *	148042 *	141360 *	130555 *	117964 *
7.0	163797 *	165033 *	165462 *	165033 *	163797 *	160143 *	155363 *	148636 *	139498 *	127563 *
5.0	168389 *	170402 *	170977 *	170402 *	168389 *	165211 *	160630 *	153890 *	145287 *	133727 *
3.0	171038 *	171973 *	172629 *	171973 *	171038 *	168525 *	163712 *	156972 *	148531 *	137834 *
1.0	171978 *	172404 *	172527 *	172404 *	171978 *	170416 *	165451 *	158804 *	150508 *	140117 *
0.0	172042 *	172275 *	172183 *	172275 *	172042 *	170556 *	165950 *	159398 *	150894 *	140220 *
-1.0	171886 *	172272 *	172226 *	172272 *	171886 *	170442 *	165562 *	158971 *	150673 *	140247 *
-3.0	171074 *	171687 *	171974 *	171687 *	171074 *	168846 *	164710 *	157883 *	149230 *	138463 *
-5.0	168936 *	170428 *	170710 *	170428 *	168936 *	166123 *	161551 *	155360 *	146961 *	134780 *
-7.0	164956 *	166080 *	166557 *	166080 *	164956 *	161717 *	157085 *	150191 *	141466 *	129290 *
-9.0	158466 *	160023 *	160536 *	160023 *	158466 *	155719 *	150399 *	143561 *	133882 *	122165 *
-11.0	149997 *	152065 *	152673 *	152065 *	149997 *	147111 *	141888 *	134152 *	124337 *	112548 *
-13.0	139526 *	141900 *	142658 *	141900 *	139526 *	135794 *	130590 *	122537 *	112422 *	101092 *
-15.0	126508 *	129267 *	129845 *	129267 *	126508 *	122202 *	115858 *	108199 *	98834 *	88228 *
-17.0	110731 *	112531 *	112239 *	112531 *	110731 *	106633 *	100347 *	92934 *	84595 *	76398 *
-19.5	89489 *	90923 *	90495 *	90923 *	89489 *	86026 *	81183 *	75258 *	68826 *	63258 *
-22.5	66723 *	67576 *	67597 *	67576 *	66723 *	65236 *	62595 *	59019 *	54968 *	51532 *
-25.5	52521 *	53069 *	53157 *	53069 *	52521 *	51479 *	49839 *	47492 *	44807 *	42420 *
-29.0	40711 *	41133 *	41193 *	41133 *	40711 *	39844 *	38564 *	37086 *	35476 *	33641 *
-33.0	29980 *	30449 *	30599 *	30449 *	29980 *	29351 *	28497 *	27496 *	26405 *	25150 *
-37.5	20516 *	20692 *	20685 *	20692 *	20516 *	20136 *	19604 *	18930 *	18181 *	17303 *
-42.5	12012	12117	12169	12117	12012	11646	11315	10877	10331	9682
-47.5	5407	5348	5319	5348	5407	5327	5235	5111	4955	4772
-55.0	3112	3113	3113	3113	3112	3077	3046	2999	2936	2851
-65.0	1434	1439	1442	1439	1434	1420	1411	1399	1383	1363
-75.0	591	592	593	592	591	590	584	579	574	568
-85.0	150	152	153	152	150	148	148	148	148	144
-90.0	36	35	35	35	36	36	36	36	36	35

**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	2	3	5	6
75.0	1	3	6	8	12	18	22	31	38	41
65.0	238	242	244	242	242	240	232	222	209	192
55.0	1157	1134	1102	1055	1003	940	832	721	605	499
47.5	2101	2025	1962	1915	1845	1638	1382	1214	1039	812
42.5	4597	4101	3681	3081	2690	2360	2161	1743	1387	1156
37.5	10466	9646	8466	6933	5540	4135	3001	2445	1894	1465
33.0	17455 *	16101	14261	12164	10037	7578	5043	3204	2510	1786
29.0	24689 *	22949 *	20604 *	17777 *	14775	11706	8128	4757	2915	2240
25.5	32807 *	30154 *	27152 *	23424 *	19628 *	15527	11178	6670	3515	2646

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**CANDELA TABULATION - (Cont.)**

22.5	41142 *	37596 *	33554 *	28779 *	24088 *	19047 *	13887	8557	4218	2858
19.5	51197 *	46245 *	40397 *	34424 *	28758 *	22616 *	16702	10530	5251	3053
17.0	60662 *	54416 *	46864 *	39194 *	32600 *	25651 *	18961 *	12120	6051	3252
15.0	71083 *	61244 *	52297 *	43234 *	35688 *	27908 *	20572 *	13303	6822	3458
13.0	81437 *	70175 *	58061 *	47266 *	38662 *	30228 *	22046 *	14527	7588	3649
11.0	93083 *	78774 *	63791 *	51029 *	41487 *	32372 *	23505 *	15625	8271	3825
9.0	104166 *	88661 *	70947 *	55328 *	44401 *	34311 *	24879 *	16609	8867	3983
7.0	113175 *	97231 *	77237 *	59160 *	46922 *	35985 *	26093 *	17451 *	9371	4121
5.0	119841 *	103968 *	82054 *	62045 *	48738 *	37346 *	27098 *	18144 *	9780	4242
3.0	124373 *	107837 *	85502 *	64003 *	50067 *	38326 *	27866 *	18639 *	10205	4380
1.0	127077 *	109618 *	87286 *	65137 *	50910 *	38992 *	28309 *	18932 *	10309	4438
0.0	126940 *	109744 *	87451 *	65185 *	51136 *	39189 *	28439 *	18987 *	10361	4468
-1.0	127214 *	110375 *	88159 *	65817 *	51298 *	39271 *	28467 *	19010 *	10421	4492
-3.0	125045 *	109065 *	87181 *	65539 *	51108 *	39128 *	28339 *	18875 *	10541	4540
-5.0	120885 *	105327 *	84001 *	63880 *	50140 *	38586 *	28092 *	18697 *	10322	4503
-7.0	114705 *	99356 *	79836 *	61416 *	48672 *	37707 *	27608 *	18417 *	10098	4470
-9.0	108033 *	92245 *	74443 *	58260 *	46724 *	36564 *	26865 *	17955 *	9765	4410
-11.0	99174 *	84430 *	68154 *	54544 *	44375 *	35070 *	25825 *	17307 *	9326	4320
-13.0	88321 *	76206 *	62723 *	51182 *	42072 *	33306 *	24612 *	16460	8781	4201
-15.0	77999 *	67159 *	57275 *	47505 *	39461 *	31289 *	23354 *	15469	8130	4052
-17.0	67490 *	60563 *	52159 *	43786 *	36687 *	29290 *	21893 *	14477	7427	3874
-19.5	57647 *	52371 *	46126 *	39217 *	33215 *	26508 *	19797 *	13059	6641	3735
-22.5	47790 *	43991 *	39164 *	33683 *	28676 *	23087 *	17174	11087	5552	3639
-25.5	39743 *	36857 *	33046 *	28539 *	24287 *	19572 *	14401	9033	4778	3525
-29.0	31536 *	29484 *	26710 *	23123 *	19478 *	15703	11219	6891	4087	3158
-33.0	23801 *	22223 *	20054 *	17402 *	14557	11301	7846	5017	3790	2704
-37.5	16293	15119	13447	11339	9318	7087	5078	4021	3173	2293
-42.5	8939	8158	7238	6009	5123	4308	3927	3282	2462	2056
-47.5	4560	4321	4130	3965	3783	3411	2955	2415	2104	1613
-55.0	2744	2632	2488	2389	2322	2229	1975	1677	1389	1127
-65.0	1339	1312	1272	1219	1167	1090	999	877	746	624
-75.0	561	551	539	521	503	479	451	410	359	304
-85.0	143	142	140	137	134	127	120	110	97	85
-90.0	35	35	34	34	33	32	31	29	27	25

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	6	5	5	3	1
75.0	45	38	23	7	1
65.0	161	111	56	11	1
55.0	353	214	99	18	1
47.5	556	303	135	25	1
42.5	725	375	163	29	1
37.5	948	460	191	33	1
33.0	1183	545	215	36	1
29.0	1382	623	237	39	1
25.5	1532	693	255	41	1
22.5	1658	746	269	42	1
19.5	1800	803	283	44	1
17.0	1930	846	294	45	1
15.0	2024	879	303	46	1
13.0	2109	909	311	46	1
11.0	2184	938	318	48	1
9.0	2251	963	325	48	1

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

<b>7.0</b>	2308	985	331	49	1
<b>5.0</b>	2356	1004	339	49	1
<b>3.0</b>	2405	1025	343	49	1
<b>1.0</b>	2428	1035	346	49	1
<b>0.0</b>	2439	1041	348	49	1
<b>-1.0</b>	2458	1045	350	49	1
<b>-3.0</b>	2497	1053	354	50	1
<b>-5.0</b>	2507	1051	358	50	1
<b>-7.0</b>	2515	1050	357	50	1
<b>-9.0</b>	2489	1047	358	51	1
<b>-11.0</b>	2451	1039	359	51	1
<b>-13.0</b>	2404	1032	358	49	1
<b>-15.0</b>	2346	1020	357	49	1
<b>-17.0</b>	2279	1005	355	49	1
<b>-19.5</b>	2181	982	350	48	1
<b>-22.5</b>	2088	948	342	47	1
<b>-25.5</b>	2015	913	333	46	1
<b>-29.0</b>	1922	859	319	45	1
<b>-33.0</b>	1747	794	302	43	1
<b>-37.5</b>	1523	711	279	40	1
<b>-42.5</b>	1279	616	250	36	1
<b>-47.5</b>	1059	530	217	32	1
<b>-55.0</b>	762	415	173	25	1
<b>-65.0</b>	457	267	113	18	1
<b>-75.0</b>	232	140	58	12	1
<b>-85.0</b>	65	40	20	6	1
<b>-90.0</b>	21	13	7	3	1

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 48907.46

Total Field Lumens (one side of beam only) = 43198.46

\* 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	0.02
65	0.28	0.58	0.59	0.61	0.64	0.67	0.69	0.70	0.71	0.89
55	2.18	4.37	4.36	4.34	4.32	4.28	4.22	4.14	4.06	4.92
47.5	4.07	8.17	8.13	8.03	7.91	7.74	7.54	7.31	7.05	8.44
42.5	6.64	13.35	13.21	12.84	12.39	11.80	11.11	10.30	9.39	10.64
37.5	15.41	30.54	30.01	29.30	28.28	26.92	25.23	23.24	21.09	23.41
33	24.98 *	49.24 *	48.28 *	47.20 *	45.67	43.70	41.29	38.47	35.36	39.44
29	33.69 *	66.52 *	65.17 *	63.42 *	61.16 *	58.53 *	55.36 *	51.61 *	47.55 *	53.45 *
25.5	40.91 *	80.98 *	79.34 *	76.95 *	73.92 *	70.36 *	66.31 *	61.70 *	56.67 *	63.82 *
22.5	46.49 *	92.32 *	90.21 *	87.02 *	83.10 *	78.41 *	73.44 *	68.14 *	62.23 *	69.67 *
19.5	62.82 *	124.52 *	120.39 *	114.81 *	108.50 *	100.95 *	93.34 *	85.62 *	77.38 *	85.58 *
17	69.71 *	138.13 *	133.40 *	126.22 *	117.63 *	107.79 *	97.83 *	87.65 *	77.78 *	84.94 *
15	68.39 *	135.67 *	131.63 *	124.86 *	116.24 *	106.24 *	94.93 *	83.29 *	72.44 *	77.68 *
13	78.55 *	155.79 *	151.63 *	145.06 *	136.24 *	125.09 *	111.62 *	97.05 *	83.14 *	87.42 *
11	86.94 *	172.52 *	168.85 *	162.86 *	153.90 *	142.05 *	127.72 *	111.31 *	94.71 *	97.92 *
9	93.46 *	185.65 *	182.48 *	176.80 *	168.24 *	156.53 *	141.69 *	124.85 *	106.78 *	109.26 *
7	98.49 *	195.80 *	192.60 *	186.92 *	178.99 *	168.00 *	153.61 *	136.80 *	118.07 *	120.80 *
5	102.33 *	203.23 *	199.80 *	194.29 *	186.57 *	176.18 *	162.70 *	146.09 *	127.14 *	130.35 *
3	104.48 *	207.55 *	204.55 *	199.35 *	191.60 *	181.39 *	168.45 *	152.44 *	133.52 *	137.17 *
1	105.02 *	209.25 *	207.22 *	202.39 *	194.54 *	184.43 *	171.91 *	156.47 *	137.30 *	141.11 *
0	52.50 *	104.83 *	104.07 *	101.84 *	97.97 *	92.93 *	86.66 *	78.97 *	69.30 *	71.25 *
-1	52.46 *	104.79 *	104.06 *	101.86 *	98.01 *	92.98 *	86.71 *	79.00 *	69.43 *	71.55 *
	104.81 *	209.11 *	207.31 *	202.83 *	195.20 *	185.01 *	172.40 *	156.93 *	138.11 *	142.75 *

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

<b>-3</b>	104.30 *	207.65 *	205.10 *	200.31 *	192.90 *	182.81 *	169.66 *	153.44 *	134.78 *	139.42 *
<b>-5</b>	102.62 *	204.08 *	201.07 *	195.84 *	188.28 *	178.18 *	164.61 *	147.68 *	128.91 *	133.25 *
<b>-7</b>	99.48 *	197.73 *	194.73 *	189.31 *	181.36 *	170.72 *	156.96 *	140.15 *	121.32 *	125.07 *
<b>-9</b>	95.23 *	188.91 *	185.75 *	180.28 *	171.93 *	160.77 *	146.87 *	130.61 *	112.40 *	115.45 *
<b>-11</b>	89.75 *	177.62 *	173.94 *	168.24 *	159.62 *	148.02 *	134.19 *	118.56 *	101.93 *	105.41 *
<b>-13</b>	82.80 *	163.53 *	159.23 *	152.81 *	143.94 *	132.59 *	119.35 *	105.11 *	90.68 *	95.23 *
<b>-15</b>	73.70 *	145.83 *	141.62 *	134.82 *	125.88 *	115.36 *	103.70 *	91.66 *	80.00 *	85.75 *
<b>-17</b>	77.33 *	153.61 *	149.23 *	141.69 *	131.86 *	120.59 *	109.15 *	97.83 *	87.13 *	95.47 *
<b>-19.5</b>	72.33 *	143.70 *	140.14 *	134.07 *	125.81 *	116.12 *	106.63 *	97.63 *	88.63 *	98.53 *
<b>-22.5</b>	55.15 *	109.54 *	107.55 *	104.13 *	99.06 *	92.82 *	86.58 *	80.46 *	73.95 *	83.02 *
<b>-25.5</b>	50.25 *	99.85 *	98.14 *	95.28 *	91.31 *	86.54 *	81.52 *	76.21 *	70.52 *	79.79 *
<b>-29</b>	43.67 *	86.62 *	85.01 *	82.55 *	79.42 *	75.87 *	71.91 *	67.46 *	62.69 *	71.21 *
<b>-33</b>	35.10 *	69.61 *	68.36 *	66.52 *	64.15 *	61.43 *	58.35 *	54.89 *	51.02 *	57.64 *
<b>-37.5</b>	25.00	49.72	48.85	47.49	45.79	43.74	41.34	38.58	35.51	39.74
<b>-42.5</b>	13.31	26.55	26.13	25.39	24.54	23.45	22.15	20.65	19.02	21.56
<b>-47.5</b>	9.65	19.38	19.28	18.95	18.54	18.00	17.33	16.54	15.65	18.40
<b>-55</b>	6.94	13.85	13.74	13.56	13.36	13.07	12.71	12.26	11.75	13.93
<b>-65</b>	3.10	6.17	6.13	6.07	5.99	5.90	5.79	5.66	5.51	6.64
<b>-75</b>	1.13	2.26	2.25	2.23	2.20	2.17	2.14	2.09	2.05	2.48
<b>-85</b>	0.14	0.28	0.28	0.28	0.28	0.28	0.27	0.26	0.26	0.32
<b>-90</b>										
<b>Total</b>	2295.56	4559.4	4473.8	4329.61	4127.24	3870.42	3565.97	3219.83	2842.92	3020.78

**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	0.02	0.03	0.02	0.02
<b>85</b>	0.03	0.05	0.08	0.11	0.16	0.22	0.24	0.35	0.36	0.18
<b>75</b>	1.07	1.05	1.21	1.34	1.42	1.46	1.29	1.57	1.35	0.59
<b>65</b>	5.64	5.30	5.75	5.86	5.62	5.12	4.05	4.30	3.19	1.25
<b>55</b>	9.65	9.11	9.64	9.38	8.71	7.83	5.97	5.95	4.07	1.47

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

<b>47.5</b>										
	11.34	9.95	10.11	9.84	9.09	7.85	5.91	5.80	3.72	1.27
<b>42.5</b>										
	23.63	19.04	17.44	15.22	13.08	10.89	7.94	7.67	4.77	1.55
<b>37.5</b>										
	40.14	32.56	29.10	23.21	17.24	13.19	9.27	8.65	5.37	1.65
<b>33</b>										
	55.28	45.71	41.79	33.89	23.65	15.61	10.18	9.42	5.68	1.69
<b>29</b>										
	66.40 *	55.22 *	51.11	42.52	30.10	18.22	10.66	9.75	5.63	1.65
<b>25.5</b>										
	72.24 *	60.05 *	55.65 *	46.71	33.82	20.09	10.69	9.32	5.28	1.53
<b>22.5</b>										
	87.75 *	72.65 *	67.17 *	56.59 *	41.70	24.98	12.42	10.04	5.71	1.64
<b>19.5</b>										
	85.77 *	70.42 *	64.93 *	54.78 *	40.79	24.75	11.85	8.96	5.11	1.45
<b>17</b>										
	77.45 *	62.91 *	57.74 *	48.60 *	36.35	22.33	10.54	7.62	4.32	1.21
<b>15</b>										
	85.67 *	68.80 *	62.78 *	52.60 *	39.42 *	24.63	11.58	8.03	4.50	1.25
<b>13</b>										
	93.90 *	74.48 *	67.64 *	56.47 *	42.36 *	26.83	12.56	8.41	4.67	1.29
<b>11</b>										
	102.83 *	80.24 *	72.29 *	60.08 *	45.11 *	28.79	13.43	8.75	4.82	1.32
<b>9</b>										
	112.04 *	85.90 *	76.58 *	63.32 *	47.58 *	30.50	14.18	9.05	4.95	1.35
<b>7</b>										
	119.64 *	90.51 *	80.08 *	66.06 *	49.68 *	31.93	14.81	9.31	5.06	1.38
<b>5</b>										
	125.23 *	93.85 *	82.67 *	68.21 *	51.34 *	33.11	15.40	9.56	5.16	1.41
<b>3</b>										
	128.78 *	96.05 *	84.48 *	69.70 *	52.46 *	33.87	15.79	9.75	5.24	1.43
<b>1</b>										
	65.06 *	48.49 *	42.70 *	35.22 *	26.49 *	17.08	7.96	4.92	2.64	0.72
<b>0</b>										
	65.39 *	48.72 *	42.86 *	35.34 *	26.55 *	17.14	8.01	4.95	2.66	0.72
<b>-1</b>										
	130.81 *	97.57 *	85.67 *	70.59 *	52.99 *	34.32	16.15	9.99	5.36	1.46
<b>-3</b>										
	128.21 *	96.27 *	84.80 *	70.04 *	52.60 *	34.08	16.10	10.04	5.41	1.47
<b>-5</b>										
	123.32 *	93.54 *	82.97 *	68.91 *	51.94 *	33.55	15.82	10.00	5.42	1.47
<b>-7</b>										
	116.85 *	89.77 *	80.40 *	67.22 *	50.83 *	32.80	15.47	9.92	5.40	1.46
<b>-9</b>										
	108.94 *	85.10 *	77.11 *	64.91 *	49.22 *	31.70	14.98	9.77	5.34	1.46
<b>-11</b>										
	100.92 *	80.21 *	73.36 *	62.03 *	47.12 *	30.25	14.33	9.56	5.27	1.45
<b>-13</b>										
	93.28 *	75.22 *	69.24 *	58.77 *	44.71 *	28.48	13.55	9.29	5.17	1.44
<b>-15</b>										
	85.61 *	69.88 *	64.79 *	55.25 *	42.08 *	26.54	12.64	8.97	5.06	1.42
<b>-17</b>										
	96.66 *	79.77 *	74.45 *	63.62 *	48.42 *	30.33	14.59	10.78	6.13	1.75
<b>-19.5</b>										
	101.21 *	84.39 *	79.24 *	67.80 *	51.30	31.79	15.80	12.48	7.07	2.05

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

<b>-22.5</b>	86.01 *	72.11 *	67.96 *	58.14 *	43.39	26.64	14.13	12.08	6.80	1.98
<b>-25.5</b>	83.17 *	69.70 *	65.54 *	55.64	40.68	25.30	14.65	13.28	7.60	2.21
<b>-29</b>	74.46 *	62.24 *	57.85	48.11	34.66	23.08	14.79	13.62	8.10	2.37
<b>-33</b>	59.73	49.41	45.06	36.78	27.65	21.00	14.49	13.29	8.17	2.44
<b>-37.5</b>	40.56	33.17	30.61	26.63	22.81	18.86	13.44	12.77	7.85	2.41
<b>-42.5</b>	22.76	19.70	19.69	19.06	17.60	14.96	11.08	10.73	6.62	2.10
<b>-47.5</b>	20.75	19.50	20.87	20.70	18.93	16.59	12.58	12.22	7.89	2.60
<b>-55</b>	15.71	14.81	16.13	16.43	15.47	13.67	10.46	10.61	7.23	2.52
<b>-65</b>	7.57	7.12	7.67	7.88	7.66	6.97	5.47	5.78	4.17	1.50
<b>-75</b>	2.85	2.70	2.94	3.07	3.05	2.85	2.27	2.45	1.81	0.67
<b>-85</b>	0.37	0.35	0.39	0.40	0.41	0.38	0.31	0.35	0.26	0.10
<b>-90</b>										
<b>Total</b>	2934.69	2333.59	2130.55	1797.02	1366.22	900.59	477.85	370.13	216.43	64.35

<b>Vert. Angles</b>	<b>Horizontal Angles</b>			
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>	<b><u>Total</u></b>
<b>90</b>				
	0.01	0.00	0.13	
<b>85</b>				
	0.05	0.00	1.86	
<b>75</b>				
	0.13	0.00	18.83	
<b>65</b>				
	0.24	0.01	87.50	
<b>55</b>				
	0.27	0.01	146.43	
<b>47.5</b>				
	0.23	0.00	186.80	
<b>42.5</b>				
	0.27	0.01	374.93	
<b>37.5</b>				
	0.28	0.01	594.29	
<b>33</b>				
	0.28	0.01	799.61	
<b>29</b>				
	0.26	0.00	962.49	
<b>25.5</b>				
	0.24	0.00	1066.65	
<b>22.5</b>				
	0.25	0.00	1354.81	
<b>19.5</b>				
	0.22	0.00	1410.13	
<b>17</b>				
	0.18	0.00	1340.6	

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

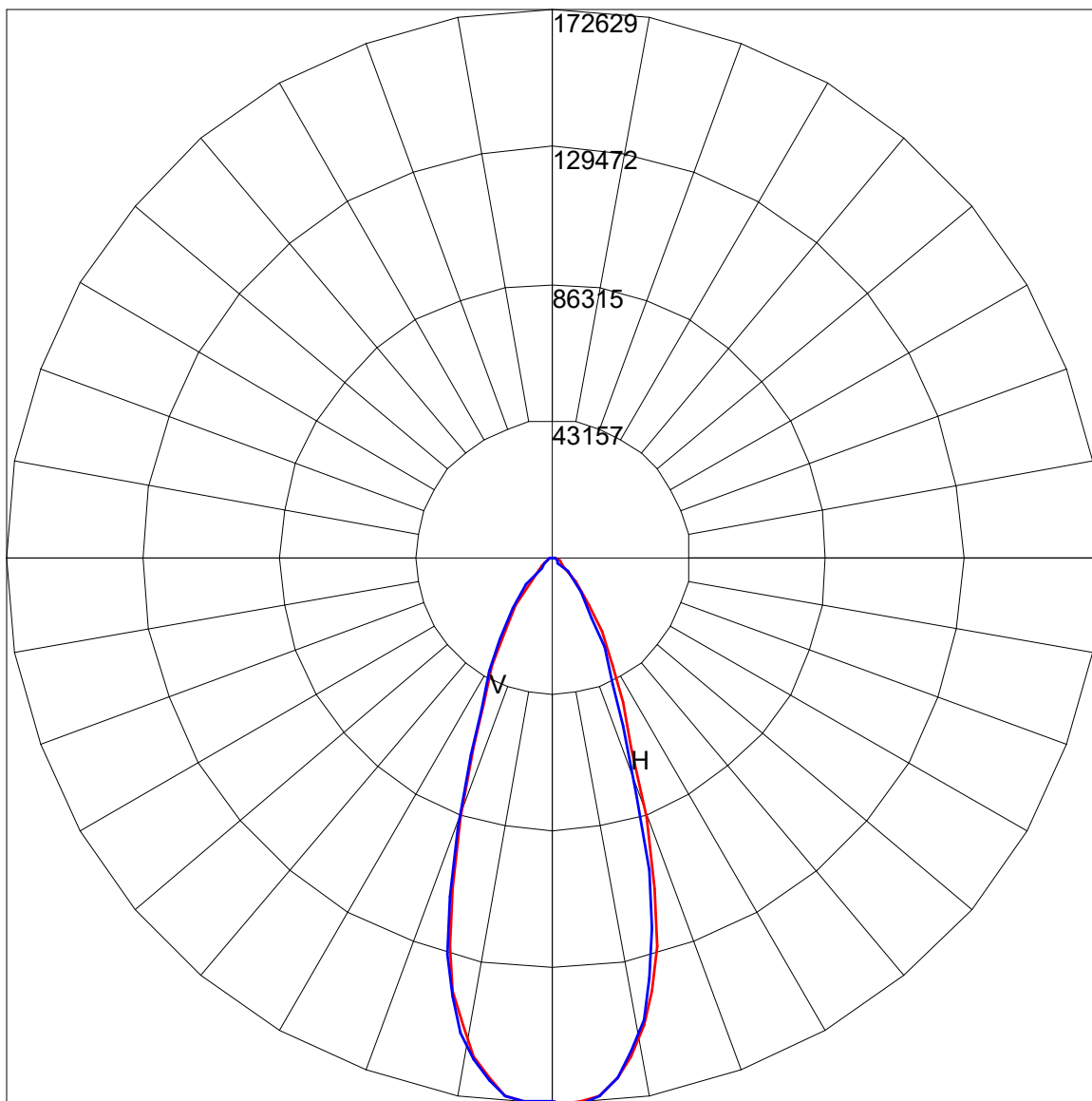
<b>15</b>	0.19	0.00	1531.06
<b>13</b>	0.19	0.00	1707.58
<b>11</b>	0.20	0.00	1863.63
<b>9</b>	0.20	0.00	1995.73
<b>7</b>	0.20	0.00	2097.34
<b>5</b>	0.21	0.00	2166.66
<b>3</b>	0.21	0.00	2207.4
<b>1</b>	0.10	0.00	1111.72
<b>0</b>	0.11	0.00	1113.3
<b>-1</b>	0.21	0.00	2219.58
<b>-3</b>	0.21	0.00	2189.61
<b>-5</b>	0.22	0.00	2131.68
<b>-7</b>	0.22	0.00	2047.15
<b>-9</b>	0.22	0.00	1936.93
<b>-11</b>	0.22	0.00	1802.01
<b>-13</b>	0.21	0.00	1644.63
<b>-15</b>	0.21	0.00	1470.77
<b>-17</b>	0.26	0.00	1590.66
<b>-19.5</b>	0.31	0.00	1577.02
<b>-22.5</b>	0.30	0.00	1281.8
<b>-25.5</b>	0.34	0.01	1207.52
<b>-29</b>	0.37	0.01	1066.06
<b>-33</b>	0.39	0.01	865.49
<b>-37.5</b>	0.40	0.01	625.28
<b>-42.5</b>	0.35	0.01	367.40
<b>-47.5</b>	0.44	0.01	324.82
<b>-55</b>	0.43	0.01	248.65
<b>-65</b>	0.27	0.01	119.03

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

**LUMENS TABULATION - (Cont.)**

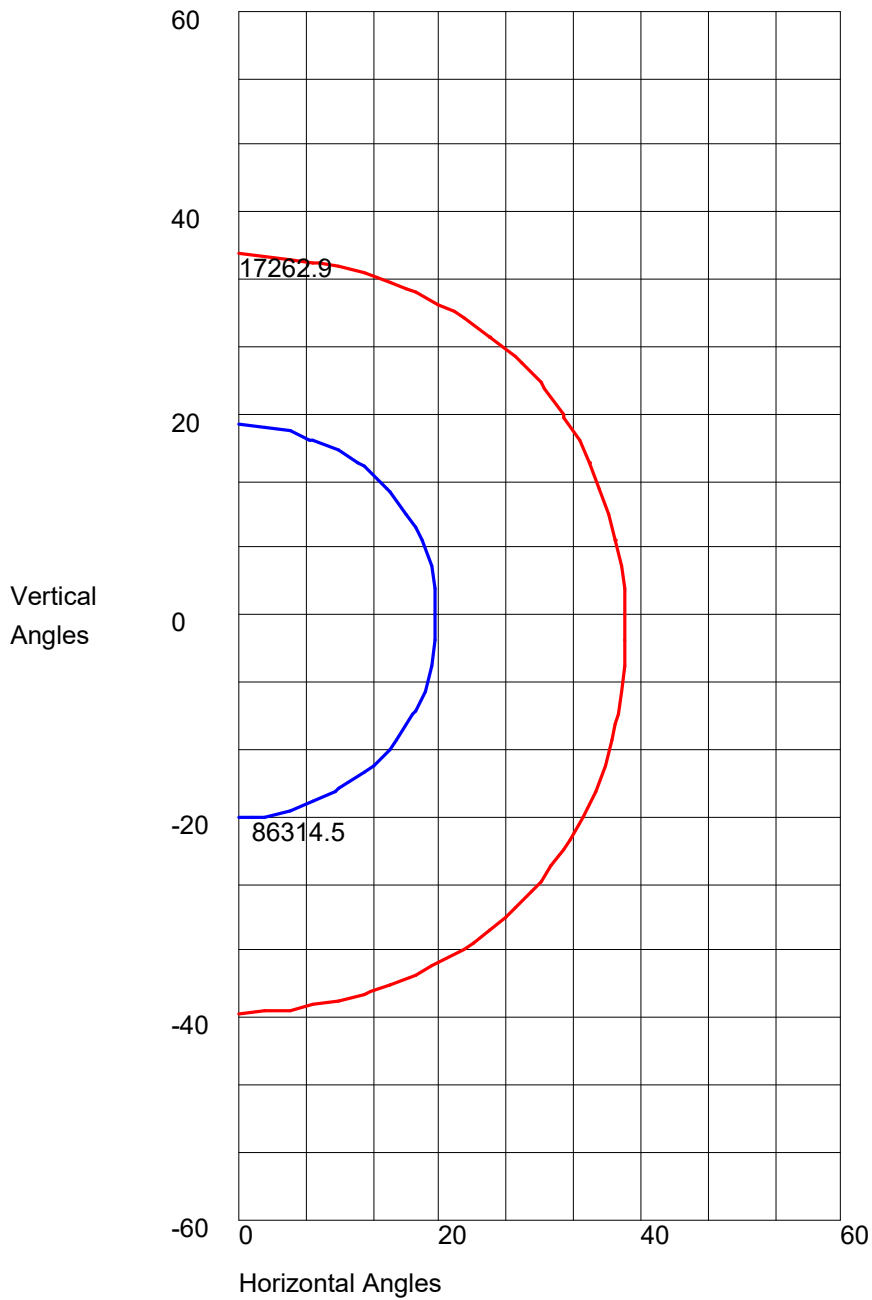
<b>-75</b>	0.13	0.00	45.81
<b>-85</b>	0.02	0.00	6.01
<b>-90</b>			
<b>Total</b>	10.29	0.18	48907.42

AXIAL CANDELA DISPLAY



Maximum Candela = 172629 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 172629 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 86314.5  
10% Maximum Candela = 17262.9