



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-WF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13806  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 12/22/22  
[TESTDATE] 12/12/22  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-100L-WF-50-GS  
[TEST PROCEDURE] IESNA LM-79-19  
[ ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[ FACTORED] SCALED FROM ORIGINAL TEST DATA  
[ SEARCH\_SOURCETYPE] LED  
[ SEARCH\_APPLICATION] Outdoor  
[ SEARCH\_COLORTEMP] 5000

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

### CHARACTERISTICS

NEMA Type	6 H x 6 V
Maximum Candela	108745
Maximum Candela Angle	0H 3V
Horizontal Beam Angle (50%)	44.4
Vertical Beam Angle (50%)	43.6
Horizontal Field Angle (10%)	105.5
Vertical Field Angle (10%)	101.6
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	37473
Beam Efficiency	N.A.
Field Lumens	85746
Field Efficiency	N.A.
Spill Lumens	9107
Luminaire Lumens	94853
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	104	85	0
75	838	75	5
65	2542	65	1344
55	8837	55	5450
47.5	15787	47.5	11805
42.5	20771	42.5	16961
37.5	25658	37.5	22327
33	30865	33	28075
29	36547	29	34503
25.5	43791	25.5	42822
22.5	53592	22.5	54127
19.5	65507	19.5	67419
17	75802	17	77945
15	83174	15	86211
13	89530	13	91878
11	95056	11	96998
9	99747	9	101452
7	103586	7	105082
5	106549	5	107683
3	108131	3	108745
1	108480	1	108673
0	108448	0	108448
-1	108480	-1	108369
-3	108131	-3	107794
-5	106549	-5	105964
-7	103586	-7	102510
-9	99747	-9	98192
-11	95056	-11	93067
-13	89530	-13	87092
-15	83174	-15	80115
-17	75802	-17	72133
-19.5	65507	-19.5	61659
-22.5	53592	-22.5	48283
-25.5	43791	-25.5	40532
-29	36547	-29	34679
-33	30865	-33	29842
-37.5	25658	-37.5	25209
-42.5	20771	-42.5	20684
-47.5	15787	-47.5	15871
-55	8837	-55	9055
-65	2542	-65	2756
-75	838	-75	1015
-85	104	-85	186
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 108745

Beam Edge = 54372.5 Cd (50% of Max.)

Field Edge = 10874.5 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	5	11	17	20	22	20	17	13	9
75.0	0	14	52	118	177	208	225	225	217	210
65.0	0	22	129	284	476	624	727	822	918	999
55.0	0	37	237	554	980	1380	1675	2206	2814	3343
47.5	0	51	328	820	1563	2573	3790	5214	6383	7464
42.5	0	60	402	1024	2055	4059	5803	7679	9408	10940 *
37.5	0	69	472	1241	2846	5854	8075	10585	12854 *	14787 *
33.0	0	75	533	1444	3820	7471	10279	13390 *	16062 *	18173 *
29.0	0	81	591	1622	4701	8945	12203 *	15793 *	18698 *	21443 *
25.5	0	86	638	1781	5494	10149	13874 *	17757 *	21037 *	23852 *
22.5	0	89	676	1913	6119	11203 *	15193 *	19411 *	22822 *	25969 *
19.5	0	92	710	2050	6678	12164 *	16379 *	20824 *	24416 *	28030 *
17.0	0	95	735	2154	7124	12905 *	17232 *	21830 *	25736 *	29713 *
15.0	0	96	754	2230	7450	13459 *	17892 *	22583 *	26739 *	30950 *
13.0	0	98	770	2300	7749	13967 *	18521 *	23279 *	27655 *	32157 *
11.0	0	102	786	2364	8018	14425 *	19079 *	23871 *	28496 *	33263 *
9.0	0	102	799	2413	8255	14830 *	19552 *	24344 *	29181 *	34251 *
7.0	0	103	811	2454	8459	15179 *	19940 *	24732 *	29718 *	35097 *
5.0	0	103	826	2489	8616	15460 *	20245 *	25035 *	30142 *	35778 *
3.0	0	103	831	2524	8776	15715 *	20598 *	25305 *	30464 *	36225 *
1.0	0	104	836	2536	8817	15763 *	20713 *	25574 *	30764 *	36494 *
0.0	0	104	838	2542	8837	15787 *	20771 *	25658 *	30865 *	36547 *
-1.0	0	104	840	2548	8855	15782 *	20777 *	25688 *	30883 *	36524 *
-3.0	0	105	844	2560	8891	15771 *	20789 *	25644 *	30826 *	36308 *
-5.0	0	105	848	2547	8809	15567 *	20544 *	25487 *	30510 *	35782 *
-7.0	0	106	841	2535	8732	15420 *	20358 *	25227 *	30059 *	35068 *
-9.0	0	106	837	2515	8604	15228 *	20101 *	24895 *	29500 *	34245 *
-11.0	0	107	832	2485	8437	14973 *	19777 *	24499 *	28864 *	33353 *
-13.0	0	103	824	2446	8234	14657 *	19392 *	24013 *	28169 *	32369 *
-15.0	0	102	815	2399	7994	14280 *	18908 *	23434 *	27418 *	31307 *
-17.0	0	101	804	2345	7718	13844 *	18301 *	22803 *	26583 *	30253 *
-19.5	0	100	787	2266	7324	13236 *	17538 *	21945 *	25458 *	28852 *
-22.5	0	98	762	2156	6809	12426 *	16573 *	20725 *	24081 *	27098 *
-25.5	0	95	732	2049	6232	11521 *	15479 *	19115 *	22612 *	25305 *
-29.0	0	91	693	1910	5473	10395	13941 *	17325 *	20686 *	23248 *
-33.0	0	86	642	1745	4593	8935	12103 *	15288 *	17888 *	20497 *
-37.5	0	80	587	1552	3608	7312	9974	12743 *	15216 *	17196 *
-42.5	0	71	518	1352	2751	5409	7670	9920	11954 *	13724 *
-47.5	0	62	440	1150	2219	3680	5418	7305	8842	10243
-55.0	0	46	335	852	1576	2240	2784	3627	4613	5469
-65.0	0	29	203	489	890	1211	1432	1648	1851	2025
-75.0	0	18	97	222	388	519	611	689	754	811
-85.0	0	6	26	51	83	108	125	140	151	160
-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	5	3	2	1	0	0	0	0	0	0
75.0	197	182	164	146	130	114	96	77	58	38
65.0	1074	1121	1170	1209	1237	1262	1281	1295	1303	1306
55.0	3795	4098	4413	4710	4894	5032	5157	5267	5350	5405
47.5	8334	9097	9780	10266	10617	10922 *	11183 *	11429 *	11607 *	11718 *
42.5	12228 *	13258 *	14215 *	14924 *	15376 *	15758 *	16081 *	16347 *	16541 *	16660 *
37.5	16335 *	17457 *	18670 *	19565 *	20183 *	20686 *	21112 *	21460 *	21768 *	22003 *
33.0	20125 *	21647 *	22888 *	23956 *	24757 *	25504 *	26166 *	26716 *	27194 *	27587 *
29.0	23445 *	25251 *	27036 *	28408 *	29383 *	30414 *	31408 *	32263 *	33071 *	33801 *
25.5	26359 *	28649 *	30979 *	32933 *	34554 *	36094 *	37452 *	39236 *	40736 *	41838 *
22.5	28954 *	31769 *	34824 *	37588 *	40213 *	42768 *	45134 *	48015 *	50430 *	52293 *
19.5	31561 *	35019 *	39086 *	43511 *	47420 *	51664 *	55566 *	59413 *	62603 *	65056 *
17.0	33630 *	37880 *	43477 *	49491 *	54617 *	60033 *	65070 *	69152 *	72577 *	75298 *
15.0	35365 *	40463 *	47239 *	54433 *	60709 *	66648 *	71822 *	76330 *	79912 *	82634 *
13.0	37024 *	43248 *	51452 *	59464 *	66247 *	72517 *	77891 *	82466 *	86400 *	88937 *
11.0	38639 *	45947 *	55402 *	64192 *	71407 *	77827 *	83060 *	87581 *	91318 *	94186 *
9.0	40561 *	48710 *	59114 *	68312 *	75700 *	82084 *	87398 *	91846 *	95620 *	98605 *
7.0	42153 *	50910 *	61901 *	71373 *	78573 *	85297 *	90841 *	95435 *	99339 *	102044 *
5.0	43182 *	52421 *	63899 *	73618 *	80793 *	87349 *	93160 *	98018 *	101739 *	104501 *
3.0	43837 *	53292 *	65046 *	74912 *	82170 *	88647 *	94281 *	99228 *	103259 *	105997 *
1.0	43930 *	53691 *	65506 *	75532 *	82977 *	89423 *	95017 *	99706 *	103549 *	106690 *
0.0	43791 *	53592 *	65507 *	75802 *	83174 *	89530 *	95056 *	99747 *	103586 *	106549 *
-1.0	43760 *	53379 *	65107 *	75132 *	82608 *	88840 *	94350 *	99124 *	103087 *	106298 *
-3.0	43356 *	52367 *	63827 *	73668 *	81004 *	87438 *	93150 *	98095 *	102007 *	104786 *
-5.0	42443 *	50937 *	61858 *	71558 *	78884 *	85505 *	91359 *	96013 *	99642 *	102493 *
-7.0	41245 *	48999 *	59248 *	68768 *	76109 *	82593 *	88172 *	92719 *	96409 *	99383 *
-9.0	39751 *	46574 *	55906 *	64969 *	72045 *	78175 *	83809 *	88602 *	92410 *	95380 *
-11.0	38116 *	43795 *	52128 *	60514 *	67063 *	73211 *	78766 *	83606 *	87562 *	90339 *
-13.0	36699 *	41680 *	48690 *	55831 *	61709 *	67521 *	72821 *	77635 *	81531 *	84014 *
-15.0	35203 *	39395 *	45050 *	50755 *	56091 *	61252 *	66168 *	70685 *	74438 *	76855 *
-17.0	33685 *	37164 *	41708 *	46349 *	50174 *	54763 *	59154 *	63190 *	66638 *	69022 *
-19.5	31935 *	34863 *	38180 *	41352 *	44113 *	47119 *	50290 *	53786 *	56584 *	58738 *
-22.5	29866 *	32303 *	34781 *	36857 *	38640 *	40472 *	42144 *	44385 *	46177 *	47493 *
-25.5	27774 *	29839 *	31772 *	33298 *	34606 *	35849 *	36938 *	38191 *	39273 *	40081 *
-29.0	25301 *	27010 *	28592 *	29857 *	30796 *	31699 *	32529 *	33243 *	33888 *	34423 *
-33.0	22435 *	23896 *	25190 *	26222 *	26981 *	27686 *	28345 *	28914 *	29342 *	29635 *
-37.5	18950 *	20500 *	21662 *	22456 *	23023 *	23560 *	24023 *	24413 *	24755 *	25017 *
-42.5	15192 *	16334 *	17296 *	17975 *	18517 *	19019 *	19443 *	19822 *	20146 *	20393 *
-47.5	11373 *	12331 *	13216 *	13828 *	14245 *	14608 *	14919 *	15224 *	15470 *	15658 *
-55.0	6261	6893	7457	7860	8144	8393	8615	8805	8959	9077
-65.0	2170	2280	2392	2477	2538	2593	2642	2683	2716	2740
-75.0	855	889	918	939	953	967	979	989	997	1009
-85.0	166	171	175	178	180	182	187	187	187	187
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	21	10	5	10	21	38	58	77	96	114
65.0	1336	1344	1344	1344	1336	1306	1303	1295	1281	1262

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**CANDELA TABULATION - (Cont.)**

55.0	5443	5430	5450	5430	5443	5405	5350	5267	5157	5032
47.5	11847 *	11816 *	11805 *	11816 *	11847 *	11718 *	11607 *	11429 *	11183 *	10922 *
42.5	16816 *	16898 *	16961 *	16898 *	16816 *	16660 *	16541 *	16347 *	16081 *	15758 *
37.5	22156 *	22253 *	22327 *	22253 *	22156 *	22003 *	21768 *	21460 *	21112 *	20686 *
33.0	27859 *	27910 *	28075 *	27910 *	27859 *	27587 *	27194 *	26716 *	26166 *	25504 *
29.0	34281 *	34301 *	34503 *	34301 *	34281 *	33801 *	33071 *	32263 *	31408 *	30414 *
25.5	42548 *	42501 *	42822 *	42501 *	42548 *	41838 *	40736 *	39236 *	37452 *	36094 *
22.5	53568 *	53799 *	54127 *	53799 *	53568 *	52293 *	50430 *	48015 *	45134 *	42768 *
19.5	66702 *	67104 *	67419 *	67104 *	66702 *	65056 *	62603 *	59413 *	55566 *	51664 *
17.0	77039 *	77628 *	77945 *	77628 *	77039 *	75298 *	72577 *	69152 *	65070 *	60033 *
15.0	84459 *	85551 *	86211 *	85551 *	84459 *	82634 *	79912 *	76330 *	71822 *	66648 *
13.0	90548 *	91202 *	91878 *	91202 *	90548 *	88937 *	86400 *	82466 *	77891 *	72517 *
11.0	95851 *	96387 *	96998 *	96387 *	95851 *	94186 *	91318 *	87581 *	83060 *	77827 *
9.0	100327 *	100920 *	101452 *	100920 *	100327 *	98605 *	95620 *	91846 *	87398 *	82084 *
7.0	103991 *	104657 *	105082 *	104657 *	103991 *	102044 *	99339 *	95435 *	90841 *	85297 *
5.0	106327 *	107453 *	107683 *	107453 *	106327 *	104501 *	101739 *	98018 *	93160 *	87349 *
3.0	107660 *	108437 *	108745 *	108437 *	107660 *	105997 *	103259 *	99228 *	94281 *	88647 *
1.0	108182 *	108613 *	108673 *	108613 *	108182 *	106690 *	103549 *	99706 *	95017 *	89423 *
0.0	108131 *	108480 *	108448 *	108480 *	108131 *	106549 *	103586 *	99747 *	95056 *	89530 *
-1.0	107743 *	108363 *	108369 *	108363 *	107743 *	106298 *	103087 *	99124 *	94350 *	88840 *
-3.0	106765 *	107628 *	107794 *	107628 *	106765 *	104786 *	102007 *	98095 *	93150 *	87438 *
-5.0	104622 *	105912 *	105964 *	105912 *	104622 *	102493 *	99642 *	96013 *	91359 *	85505 *
-7.0	101491 *	102401 *	102510 *	102401 *	101491 *	99383 *	96409 *	92719 *	88172 *	82593 *
-9.0	97030 *	98091 *	98192 *	98091 *	97030 *	95380 *	92410 *	88602 *	83809 *	78175 *
-11.0	91732 *	92824 *	93067 *	92824 *	91732 *	90339 *	87562 *	83606 *	78766 *	73211 *
-13.0	85618 *	86647 *	87092 *	86647 *	85618 *	84014 *	81531 *	77635 *	72821 *	67521 *
-15.0	78583 *	79813 *	80115 *	79813 *	78583 *	76855 *	74438 *	70685 *	66168 *	61252 *
-17.0	70727 *	71756 *	72133 *	71756 *	70727 *	69022 *	66638 *	63190 *	59154 *	54763 *
-19.5	60362 *	61339 *	61659 *	61339 *	60362 *	58738 *	56584 *	53786 *	50290 *	47119 *
-22.5	48401 *	48614 *	48283 *	48614 *	48401 *	47493 *	46177 *	44385 *	42144 *	40472 *
-25.5	40615 *	40678 *	40532 *	40678 *	40615 *	40081 *	39273 *	38191 *	36938 *	35849 *
-29.0	34782 *	34783 *	34679 *	34783 *	34782 *	34423 *	33888 *	33243 *	32529 *	31699 *
-33.0	29811 *	29860 *	29842 *	29860 *	29811 *	29635 *	29342 *	28914 *	28345 *	27686 *
-37.5	25198 *	25237 *	25209 *	25237 *	25198 *	25017 *	24755 *	24413 *	24023 *	23560 *
-42.5	20655 *	20674 *	20684 *	20674 *	20655 *	20393 *	20146 *	19822 *	19443 *	19019 *
-47.5	15854 *	15865 *	15871 *	15865 *	15854 *	15658 *	15470 *	15224 *	14919 *	14608 *
-55.0	9159	9090	9055	9090	9159	9077	8959	8805	8615	8393
-65.0	2761	2758	2756	2758	2761	2740	2716	2683	2642	2593
-75.0	1011	1014	1015	1014	1011	1009	997	989	979	967
-85.0	187	186	186	186	187	187	187	187	187	182
-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	0	1	2	3	5	9	13	17	20	22
75.0	130	146	164	182	197	210	217	225	225	208
65.0	1237	1209	1170	1121	1074	999	918	822	727	624
55.0	4894	4710	4413	4098	3795	3343	2814	2206	1675	1380
47.5	10617	10266	9780	9097	8334	7464	6383	5214	3790	2573
42.5	15376 *	14924 *	14215 *	13258 *	12228 *	10940 *	9408	7679	5803	4059
37.5	20183 *	19565 *	18670 *	17457 *	16335 *	14787 *	12854 *	10585	8075	5854
33.0	24757 *	23956 *	22888 *	21647 *	20125 *	18173 *	16062 *	13390 *	10279	7471
29.0	29383 *	28408 *	27036 *	25251 *	23445 *	21443 *	18698 *	15793 *	12203 *	8945
25.5	34554 *	32933 *	30979 *	28649 *	26359 *	23852 *	21037 *	17757 *	13874 *	10149

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**CANDELA TABULATION - (Cont.)**

22.5	40213 *	37588 *	34824 *	31769 *	28954 *	25969 *	22822 *	19411 *	15193 *	11203 *
19.5	47420 *	43511 *	39086 *	35019 *	31561 *	28030 *	24416 *	20824 *	16379 *	12164 *
17.0	54617 *	49491 *	43477 *	37880 *	33630 *	29713 *	25736 *	21830 *	17232 *	12905 *
15.0	60709 *	54433 *	47239 *	40463 *	35365 *	30950 *	26739 *	22583 *	17892 *	13459 *
13.0	66247 *	59464 *	51452 *	43248 *	37024 *	32157 *	27655 *	23279 *	18521 *	13967 *
11.0	71407 *	64192 *	55402 *	45947 *	38639 *	33263 *	28496 *	23871 *	19079 *	14425 *
9.0	75700 *	68312 *	59114 *	48710 *	40561 *	34251 *	29181 *	24344 *	19552 *	14830 *
7.0	78573 *	71373 *	61901 *	50910 *	42153 *	35097 *	29718 *	24732 *	19940 *	15179 *
5.0	80793 *	73618 *	63899 *	52421 *	43182 *	35778 *	30142 *	25035 *	20245 *	15460 *
3.0	82170 *	74912 *	65046 *	53292 *	43837 *	36225 *	30464 *	25305 *	20598 *	15715 *
1.0	82977 *	75532 *	65506 *	53691 *	43930 *	36494 *	30764 *	25574 *	20713 *	15763 *
0.0	83174 *	75802 *	65507 *	53592 *	43791 *	36547 *	30865 *	25658 *	20771 *	15787 *
-1.0	82608 *	75132 *	65107 *	53379 *	43760 *	36524 *	30883 *	25688 *	20777 *	15782 *
-3.0	81004 *	73668 *	63827 *	52367 *	43356 *	36308 *	30826 *	25644 *	20789 *	15771 *
-5.0	78884 *	71558 *	61858 *	50937 *	42443 *	35782 *	30510 *	25487 *	20544 *	15567 *
-7.0	76109 *	68768 *	59248 *	48999 *	41245 *	35068 *	30059 *	25227 *	20358 *	15420 *
-9.0	72045 *	64969 *	55906 *	46574 *	39751 *	34245 *	29500 *	24895 *	20101 *	15228 *
-11.0	67063 *	60514 *	52128 *	43795 *	38116 *	33353 *	28864 *	24499 *	19777 *	14973 *
-13.0	61709 *	55831 *	48690 *	41680 *	36699 *	32369 *	28169 *	24013 *	19392 *	14657 *
-15.0	56091 *	50755 *	45050 *	39395 *	35203 *	31307 *	27418 *	23434 *	18908 *	14280 *
-17.0	50174 *	46349 *	41708 *	37164 *	33685 *	30253 *	26583 *	22803 *	18301 *	13844 *
-19.5	44113 *	41352 *	38180 *	34863 *	31935 *	28852 *	25458 *	21945 *	17538 *	13236 *
-22.5	38640 *	36857 *	34781 *	32303 *	29866 *	27098 *	24081 *	20725 *	16573 *	12426 *
-25.5	34606 *	33298 *	31772 *	29839 *	27774 *	25305 *	22612 *	19115 *	15479 *	11521 *
-29.0	30796 *	29857 *	28592 *	27010 *	25301 *	23248 *	20686 *	17325 *	13941 *	10395
-33.0	26981 *	26222 *	25190 *	23896 *	22435 *	20497 *	17888 *	15288 *	12103 *	8935
-37.5	23023 *	22456 *	21662 *	20500 *	18950 *	17196 *	15216 *	12743 *	9974	7312
-42.5	18517 *	17975 *	17296 *	16334 *	15192 *	13724 *	11954 *	9920	7670	5409
-47.5	14245 *	13828 *	13216 *	12331 *	11373 *	10243	8842	7305	5418	3680
-55.0	8144	7860	7457	6893	6261	5469	4613	3627	2784	2240
-65.0	2538	2477	2392	2280	2170	2025	1851	1648	1432	1211
-75.0	953	939	918	889	855	811	754	689	611	519
-85.0	180	178	175	171	166	160	151	140	125	108
-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	20	17	11	5	0
75.0	177	118	52	14	0
65.0	476	284	129	22	0
55.0	980	554	237	37	0
47.5	1563	820	328	51	0
42.5	2055	1024	402	60	0
37.5	2846	1241	472	69	0
33.0	3820	1444	533	75	0
29.0	4701	1622	591	81	0
25.5	5494	1781	638	86	0
22.5	6119	1913	676	89	0
19.5	6678	2050	710	92	0
17.0	7124	2154	735	95	0
15.0	7450	2230	754	96	0
13.0	7749	2300	770	98	0
11.0	8018	2364	786	102	0
9.0	8255	2413	799	102	0

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

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	8459	2454	811	103	0
<b>5.0</b>	8616	2489	826	103	0
<b>3.0</b>	8776	2524	831	103	0
<b>1.0</b>	8817	2536	836	104	0
<b>0.0</b>	8837	2542	838	104	0
<b>-1.0</b>	8855	2548	840	104	0
<b>-3.0</b>	8891	2560	844	105	0
<b>-5.0</b>	8809	2547	848	105	0
<b>-7.0</b>	8732	2535	841	106	0
<b>-9.0</b>	8604	2515	837	106	0
<b>-11.0</b>	8437	2485	832	107	0
<b>-13.0</b>	8234	2446	824	103	0
<b>-15.0</b>	7994	2399	815	102	0
<b>-17.0</b>	7718	2345	804	101	0
<b>-19.5</b>	7324	2266	787	100	0
<b>-22.5</b>	6809	2156	762	98	0
<b>-25.5</b>	6232	2049	732	95	0
<b>-29.0</b>	5473	1910	693	91	0
<b>-33.0</b>	4593	1745	642	86	0
<b>-37.5</b>	3608	1552	587	80	0
<b>-42.5</b>	2751	1352	518	71	0
<b>-47.5</b>	2219	1150	440	62	0
<b>-55.0</b>	1576	852	335	46	0
<b>-65.0</b>	890	489	203	29	0
<b>-75.0</b>	388	222	97	18	0
<b>-85.0</b>	83	51	26	6	0
<b>-90.0</b>	0	0	0	0	0

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 47426.32

Total Field Lumens (one side of beam only) = 42872.82

\* 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	0.01	0.05	0.09	0.15	0.20	0.26	0.31	0.36	0.41	0.57
65	2.06	4.13	4.10	4.10	4.12	4.12	4.10	4.05	3.99	4.86
55	10.33	20.63	20.50	20.24	19.93	19.50	18.97	18.36	17.64	20.80
47.5	19.70	39.42	39.21	38.71	38.07	37.16	36.08	34.87	33.47	39.55
42.5	21.89 *	43.67 *	43.33 *	42.81 *	42.17 *	41.28 *	40.18 *	38.92 *	37.47 *	44.46 *
37.5	29.87 *	59.45 *	58.98 *	58.29 *	57.40 *	56.25 *	54.85 *	53.20 *	51.28 *	60.90 *
33	34.46 *	68.62 *	68.10 *	67.17 *	65.93 *	64.43 *	62.66 *	60.60 *	58.28 *	69.22 *
29	38.01 *	75.71 *	75.07 *	73.71 *	71.94 *	69.93 *	67.63 *	65.06 *	62.37 *	73.97 *
25.5	41.08 *	81.84 *	81.08 *	79.23 *	76.70 *	73.68 *	70.58 *	67.47 *	64.19 *	75.53 *
22.5	44.15 *	87.86 *	86.71 *	84.20 *	80.73 *	76.42 *	72.15 *	68.11 *	63.81 *	73.94 *
19.5	55.39 *	110.13 *	108.30 *	104.69 *	99.75 *	93.65 *	87.21 *	80.72 *	74.11 *	84.07 *
17	55.23 *	109.77 *	107.91 *	104.34 *	99.44 *	93.44 *	86.53 *	78.96 *	71.38 *	79.35 *
15	49.85 *	98.84 *	97.06 *	94.04 *	89.88 *	84.70 *	78.53 *	71.53 *	64.20 *	70.38 *
13	54.04 *	107.08 *	105.31 *	102.36 *	98.06 *	92.54 *	86.07 *	78.65 *	70.52 *	76.87 *
11	57.34 *	113.85 *	112.28 *	109.31 *	104.90 *	99.29 *	92.75 *	85.12 *	76.51 *	83.35 *
9	60.27 *	119.78 *	118.19 *	115.03 *	110.51 *	104.96 *	98.43 *	90.74 *	81.87 *	89.32 *
7	62.76 *	124.78 *	123.05 *	119.84 *	115.30 *	109.65 *	102.98 *	95.07 *	86.07 *	94.27 *
5	64.71 *	128.59 *	126.67 *	123.48 *	119.01 *	113.23 *	106.26 *	98.13 *	89.12 *	97.92 *
3	65.84 *	130.86 *	128.98 *	125.87 *	121.33 *	115.40 *	108.28 *	100.18 *	91.21 *	100.33 *
1	66.17 *	131.78 *	130.21 *	127.08 *	122.39 *	116.46 *	109.46 *	101.44 *	92.41 *	101.61 *
0	33.07 *	65.97 *	65.26 *	63.67 *	61.32 *	58.42 *	54.97 *	51.00 *	46.48 *	51.05 *
-1	33.02 *	65.86 *	65.14 *	63.54 *	61.16 *	58.24 *	54.79 *	50.86 *	46.37 *	50.90 *
	65.82 *	131.05 *	129.32 *	126.07 *	121.35 *	115.41 *	108.39 *	100.46 *	91.47 *	100.43 *

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

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	65.08 *	129.35 *	127.22 *	123.88 *	119.38 *	113.58 *	106.50 *	98.37 *	89.34 *	97.96 *
<b>-5</b>	63.48 *	126.16 *	123.97 *	120.55 *	116.07 *	110.47 *	103.57 *	95.49 *	86.47 *	94.53 *
<b>-7</b>	61.10 *	121.47 *	119.50 *	116.20 *	111.65 *	105.98 *	99.14 *	91.30 *	82.54 *	90.00 *
<b>-9</b>	58.21 *	115.58 *	113.79 *	110.78 *	106.23 *	100.43 *	93.54 *	85.86 *	77.47 *	84.44 *
<b>-11</b>	54.77 *	108.62 *	106.87 *	104.04 *	99.64 *	93.84 *	87.10 *	79.65 *	71.77 *	78.52 *
<b>-13</b>	50.82 *	100.66 *	98.78 *	95.98 *	91.79 *	86.19 *	79.78 *	72.88 *	65.70 *	72.44 *
<b>-15</b>	46.27 *	91.59 *	89.70 *	86.93 *	82.94 *	77.75 *	71.91 *	65.70 *	59.55 *	66.48 *
<b>-17</b>	50.81 *	100.53 *	98.32 *	95.04 *	90.57 *	84.90 *	78.70 *	72.47 *	66.61 *	75.75 *
<b>-19.5</b>	50.24 *	99.87 *	97.99 *	94.97 *	90.91 *	85.76 *	80.46 *	75.52 *	70.70 *	81.99 *
<b>-22.5</b>	40.69 *	81.42 *	80.49 *	78.62 *	76.02 *	72.74 *	69.45 *	66.31 *	62.98 *	74.15 *
<b>-25.5</b>	40.16 *	80.37 *	79.71 *	78.28 *	76.33 *	73.97 *	71.44 *	68.76 *	65.87 *	78.16 *
<b>-29</b>	39.34 *	78.68 *	78.18 *	77.12 *	75.64 *	73.81 *	71.66 *	69.26 *	66.67 *	79.45 *
<b>-33</b>	37.75 *	75.42 *	74.97 *	74.12 *	72.91 *	71.34 *	69.46 *	67.33 *	65.01 *	77.72 *
<b>-37.5</b>	34.95 *	69.84 *	69.33 *	68.40 *	67.22 *	65.77 *	64.09 *	62.15 *	60.00 *	71.77 *
<b>-42.5</b>	27.83 *	55.59 *	55.12 *	54.28 *	53.29 *	52.05 *	50.64 *	49.05 *	47.26 *	56.33 *
<b>-47.5</b>	28.49 *	57.04 *	56.69 *	55.85 *	54.81 *	53.50 *	51.99 *	50.31 *	48.40 *	57.44
<b>-55</b>	18.02	36.18	36.06	35.58	34.93	34.11	33.14	32.02	30.77	36.50
<b>-65</b>	5.74	11.48	11.43	11.30	11.14	10.94	10.70	10.42	10.11	12.16
<b>-75</b>	1.83	3.65	3.64	3.60	3.56	3.51	3.45	3.37	3.29	4.00
<b>-85</b>	0.14	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.26	0.32
<b>-90</b>										
<b>Total</b>	1740.78	3463.5	3416.89	3333.72	3216.88	3069.33	2899.16	2710.34	2505.4	2833.74

**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>										
	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.07	0.04
<b>85</b>	0.75	0.81	1.00	1.17	1.32	1.42	1.28	1.53	1.26	0.52
<b>75</b>	5.62	5.37	5.88	6.12	6.10	5.83	4.80	5.31	4.01	1.52
<b>65</b>	23.04	21.05	21.82	21.08	18.91	15.83	11.86	12.36	8.72	3.13
<b>55</b>	43.81	39.64	40.76	39.17	34.87	28.18	19.01	17.41	11.17	3.78

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

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	49.42 *	44.78	46.16	44.63	40.13	32.78	21.84	18.31	10.39	3.35
<b>42.5</b>	67.82 *	61.85 *	64.31 *	62.64 *	56.69	46.86	32.02	26.46	13.63	4.08
<b>37.5</b>	77.41 *	70.96 *	74.01 *	72.69 *	66.59 *	55.54	38.37	32.14	16.00	4.32
<b>33</b>	82.59 *	75.52 *	78.83 *	77.66 *	71.56 *	60.26 *	41.88	35.63	17.63	4.36
<b>29</b>	83.54 *	75.75 *	78.86 *	77.69 *	71.76 *	60.85 *	42.55 *	36.62	18.10	4.22
<b>25.5</b>	80.76 *	72.45 *	74.73 *	73.37 *	68.01 *	57.94 *	40.71 *	35.33	17.46	3.91
<b>22.5</b>	90.02 *	79.70 *	81.39 *	79.29 *	73.42 *	62.82 *	44.36 *	38.76	19.12	4.17
<b>19.5</b>	82.89 *	72.04 *	72.81 *	70.42 *	64.91 *	55.60 *	39.49 *	34.72	17.12	3.67
<b>17</b>	72.11 *	61.50 *	61.44 *	59.07 *	54.22 *	46.39 *	33.10 *	29.25	14.42	3.06
<b>15</b>	77.80 *	65.15 *	64.20 *	61.35 *	56.10 *	47.98 *	34.37 *	30.46	15.01	3.15
<b>13</b>	83.62 *	68.81 *	66.85 *	63.47 *	57.80 *	49.43 *	35.52 *	31.55 *	15.54	3.24
<b>11</b>	89.22 *	72.56 *	69.52 *	65.36 *	59.25 *	50.65 *	36.54 *	32.53 *	16.01	3.31
<b>9</b>	94.11 *	76.10 *	72.05 *	66.96 *	60.42 *	51.65 *	37.41 *	33.38 *	16.41	3.37
<b>7</b>	97.73 *	78.74 *	74.02 *	68.26 *	61.34 *	52.46 *	38.13 *	34.09 *	16.75	3.42
<b>5</b>	100.09 *	80.44 *	75.35 *	69.24 *	62.08 *	53.18 *	38.77 *	34.70 *	17.04	3.47
<b>3</b>	101.32 *	81.28 *	76.05 *	69.94 *	62.73 *	53.76 *	39.18 *	35.06 *	17.23	3.50
<b>1</b>	50.82 *	40.69 *	38.09 *	35.16 *	31.58 *	27.04 *	19.66 *	17.58 *	8.64	1.76
<b>0</b>	50.67 *	40.59 *	38.05 *	35.20 *	31.64 *	27.09 *	19.68 *	17.60 *	8.66	1.76
<b>-1</b>	100.10 *	80.50 *	75.79 *	70.25 *	63.25 *	54.18 *	39.36 *	35.22 *	17.38	3.53
<b>-3</b>	97.67 *	78.93 *	74.81 *	69.66 *	62.93 *	53.92 *	39.12 *	35.04 *	17.35	3.54
<b>-5</b>	94.28 *	76.64 *	73.23 *	68.62 *	62.27 *	53.43 *	38.70 *	34.67 *	17.21	3.52
<b>-7</b>	89.88 *	73.70 *	71.22 *	67.29 *	61.37 *	52.83 *	38.28 *	34.28 *	17.03	3.50
<b>-9</b>	84.62 *	70.22 *	68.93 *	65.77 *	60.30 *	52.06 *	37.73 *	33.75 *	16.76	3.47
<b>-11</b>	79.46 *	66.90 *	66.59 *	64.09 *	59.06 *	51.13 *	37.04 *	33.08 *	16.43	3.43
<b>-13</b>	74.56 *	63.85 *	64.24 *	62.27 *	57.66 *	50.01 *	36.20 *	32.27 *	16.03	3.37
<b>-15</b>	69.66 *	60.71 *	61.81 *	60.34 *	56.09 *	48.66 *	35.17 *	31.32 *	15.56	3.31
<b>-17</b>	81.00 *	71.81 *	73.88 *	72.54 *	67.70 *	58.75 *	42.34 *	37.62	18.68	4.03
<b>-19.5</b>	89.65 *	80.74 *	83.69 *	82.62 *	77.40 *	67.17 *	48.27 *	42.65	21.17	4.66

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

<b>-22.5</b>	82.34 *	74.99 *	78.21 *	77.61 *	72.63 *	62.89 *	45.22 *	39.64	19.68	4.45
<b>-25.5</b>	87.49 *	80.29 *	84.27 *	83.92 *	78.08 *	67.22 *	48.36 *	42.04	20.85	4.90
<b>-29</b>	89.30 *	82.34 *	86.70 *	85.96 *	79.67 *	68.42 *	48.85 *	42.01	20.87	5.19
<b>-33</b>	87.57 *	80.56 *	84.31 *	83.17 *	76.97 *	65.75 *	46.42	39.30	19.68	5.30
<b>-37.5</b>	80.82 *	74.06 *	77.07 *	75.82 *	69.71 *	58.77	40.87	34.08	17.61	5.21
<b>-42.5</b>	63.10 *	57.63 *	59.86 *	58.43 *	53.19	44.20	29.85	25.11	14.21	4.50
<b>-47.5</b>	63.81	57.69	59.25	57.11	51.17	41.85	28.51	26.03	16.53	5.42
<b>-55</b>	40.57	36.74	37.73	36.44	32.84	27.68	20.64	21.14	14.48	4.89
<b>-65</b>	13.82	12.93	13.89	14.20	13.83	12.77	10.16	10.75	7.56	2.63
<b>-75</b>	4.59	4.34	4.72	4.90	4.85	4.56	3.67	3.92	2.83	1.03
<b>-85</b>	0.37	0.35	0.39	0.41	0.41	0.39	0.31	0.34	0.25	0.10
<b>-90</b>										
<b>Total</b>	2979.81	2571.71	2576.8	2481.33	2272.91	1940.21	1385.63	1225.11	628.54	151.09

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.01	0.00	0.41	
<b>85</b>				
	0.11	0.00	13.56	
<b>75</b>				
	0.29	0.01	90.48	
<b>65</b>				
	0.56	0.01	345.28	
<b>55</b>				
	0.65	0.01	634.71	
<b>47.5</b>				
	0.56	0.01	708.52	
<b>42.5</b>				
	0.66	0.01	977.50	
<b>37.5</b>				
	0.68	0.01	1128.19	
<b>33</b>				
	0.68	0.01	1220.01	
<b>29</b>				
	0.65	0.01	1261.98	
<b>25.5</b>				
	0.59	0.01	1263.35	
<b>22.5</b>				
	0.62	0.01	1471.69	
<b>19.5</b>				
	0.54	0.01	1400.57	
<b>17</b>				
	0.44	0.01	1233.99	

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

**LUMENS TABULATION - (Cont.)**

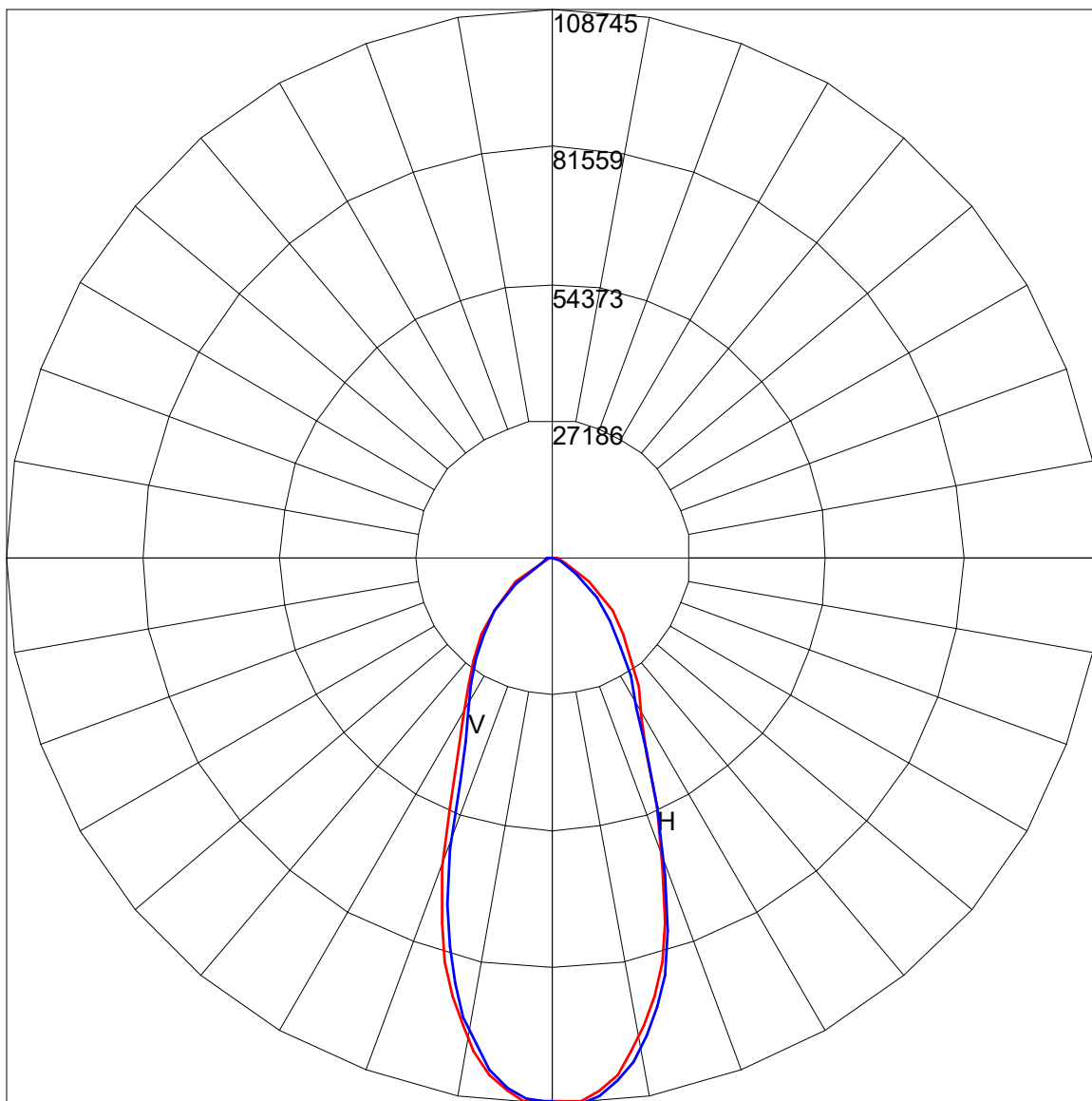
<b>15</b>	0.45	0.01	1327.54
<b>13</b>	0.46	0.01	1411.00
<b>11</b>	0.47	0.01	1484.55
<b>9</b>	0.48	0.01	1546.13
<b>7</b>	0.49	0.01	1592.54
<b>5</b>	0.49	0.01	1623.14
<b>3</b>	0.50	0.01	1639.55
<b>1</b>	0.25	0.00	822.47
<b>0</b>	0.25	0.00	821.08
<b>-1</b>	0.50	0.01	1629.83
<b>-3</b>	0.50	0.01	1604.13
<b>-5</b>	0.50	0.01	1563.83
<b>-7</b>	0.50	0.01	1508.76
<b>-9</b>	0.50	0.01	1440.44
<b>-11</b>	0.49	0.01	1362.54
<b>-13</b>	0.49	0.01	1275.94
<b>-15</b>	0.48	0.01	1181.92
<b>-17</b>	0.59	0.01	1342.64
<b>-19.5</b>	0.69	0.01	1427.12
<b>-22.5</b>	0.67	0.01	1261.21
<b>-25.5</b>	0.74	0.01	1311.23
<b>-29</b>	0.80	0.01	1319.94
<b>-33</b>	0.83	0.01	1275.89
<b>-37.5</b>	0.83	0.01	1168.39
<b>-42.5</b>	0.72	0.01	912.25
<b>-47.5</b>	0.87	0.01	922.78
<b>-55</b>	0.81	0.01	601.27
<b>-65</b>	0.46	0.01	218.42

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

**LUMENS TABULATION - (Cont.)**

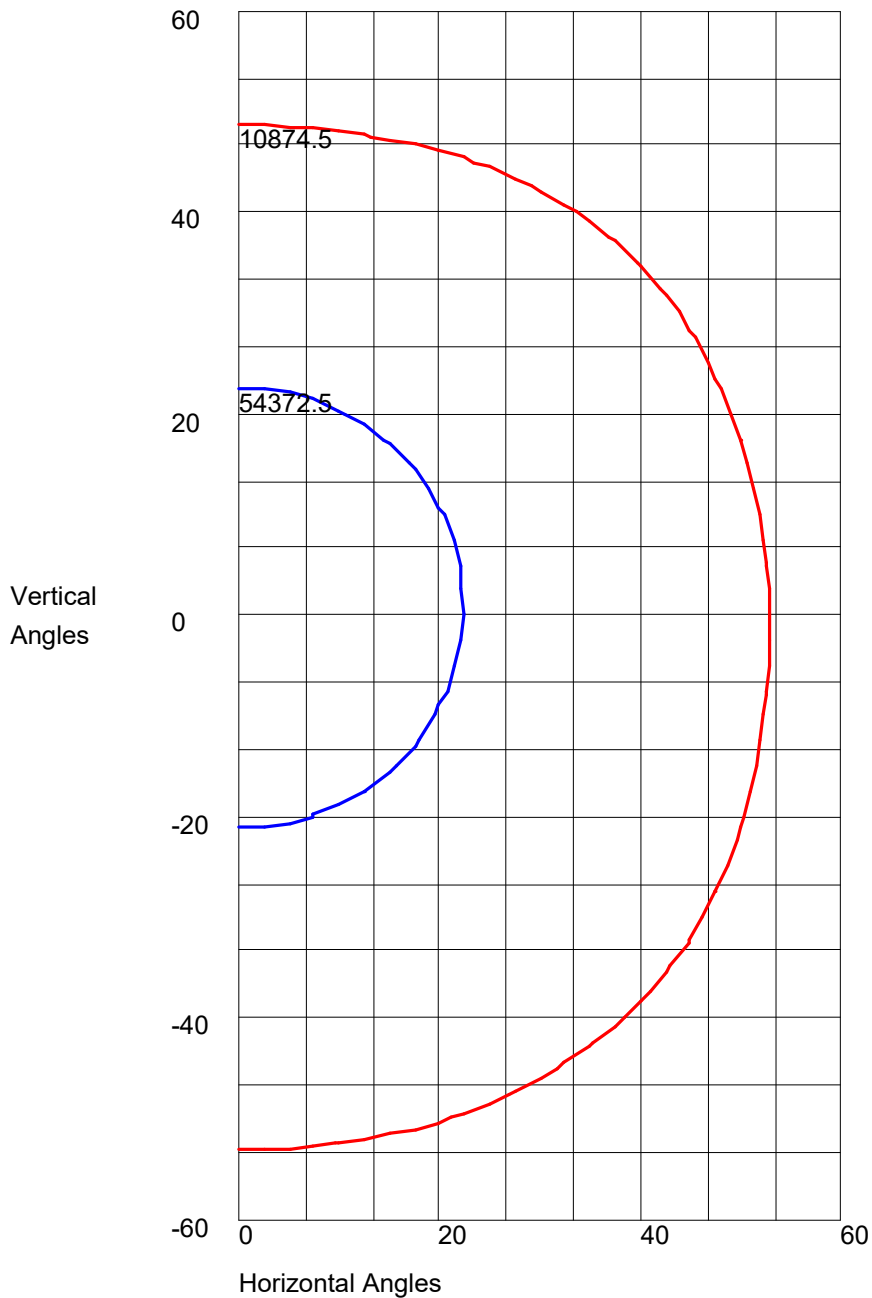
<b>-75</b>	0.19	0.00	73.52
<b>-85</b>	0.02	0.00	6.02
<b>-90</b>			
<b>Total</b>	23.06	0.35	47426.29

AXIAL CANDELA DISPLAY



Maximum Candela = 108745 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 108745 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 54372.5  
10% Maximum Candela = 10874.5