



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13806  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 12/22/22  
[TEST DATE] 12/12/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-70L-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	74632
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	25718
Beam Efficiency	N.A.
Field Lumens	58848
Field Efficiency	N.A.
Spill Lumens	6250
Luminaire Lumens	65098
Total Efficiency	N.A.
Total Luminaire Watts	463
Ballast Factor	1.00

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	71	85	0
75	575	75	3
65	1744	65	923
55	6065	55	3740
47.5	10834	47.5	8102
42.5	14255	42.5	11641
37.5	17609	37.5	15323
33	21182	33	19268
29	25083	29	23680
25.5	30055	25.5	29389
22.5	36780	22.5	37147
19.5	44958	19.5	46270
17	52023	17	53494
15	57083	15	59167
13	61445	13	63057
11	65237	11	66570
9	68457	9	69627
7	71091	7	72118
5	73125	5	73903
3	74211	3	74632
1	74450	1	74582
0	74428	0	74428
-1	74450	-1	74374
-3	74211	-3	73979
-5	73125	-5	72724
-7	71091	-7	70354
-9	68457	-9	67390
-11	65237	-11	63873
-13	61445	-13	59771
-15	57083	-15	54984
-17	52023	-17	49506
-19.5	44958	-19.5	42317
-22.5	36780	-22.5	33137
-25.5	30055	-25.5	27818
-29	25083	-29	23800
-33	21182	-33	20480
-37.5	17609	-37.5	17301
-42.5	14255	-42.5	14196
-47.5	10834	-47.5	10892
-55	6065	-55	6214
-65	1744	-65	1891
-75	575	-75	697
-85	71	-85	127
-90	0	-90	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**CANDELA TABULATION**

Maximum Candela = 74632

Beam Edge = 37316 Cd (50% of Max.)

Field Edge = 7463.2 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>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	3	8	12	13	15	14	12	9	6
<b>75.0</b>	0	9	36	81	122	143	155	155	149	145
<b>65.0</b>	0	15	89	195	327	429	500	564	629	685
<b>55.0</b>	0	25	163	380	672	947	1149	1514	1932	2294
<b>47.5</b>	0	35	225	563	1073	1766	2601	3579	4381	5123
<b>42.5</b>	0	41	276	703	1410	2785	3983	5270	6457	7509 *
<b>37.5</b>	0	47	324	851	1953	4017	5542	7265	8822 *	10149 *
<b>33.0</b>	0	52	365	991	2622	5128	7055	9190 *	11024 *	12472 *
<b>29.0</b>	0	56	405	1113	3227	6139	8375 *	10839 *	12833 *	14716 *
<b>25.5</b>	0	59	438	1222	3770	6966	9522 *	12187 *	14438 *	16370 *
<b>22.5</b>	0	61	463	1313	4200	7689 *	10428 *	13322 *	15663 *	17823 *
<b>19.5</b>	0	63	487	1407	4583	8348 *	11241 *	14292 *	16756 *	19237 *
<b>17.0</b>	0	65	504	1478	4889	8856 *	11826 *	14981 *	17663 *	20392 *
<b>15.0</b>	0	66	517	1531	5113	9237 *	12279 *	15498 *	18351 *	21241 *
<b>13.0</b>	0	67	528	1579	5318	9585 *	12711 *	15976 *	18980 *	22070 *
<b>11.0</b>	0	70	539	1622	5502	9900 *	13094 *	16383 *	19557 *	22828 *
<b>9.0</b>	0	70	548	1656	5665	10178 *	13418 *	16707 *	20027 *	23507 *
<b>7.0</b>	0	70	556	1685	5805	10418 *	13685 *	16974 *	20395 *	24087 *
<b>5.0</b>	0	70	567	1708	5913	10610 *	13894 *	17182 *	20687 *	24555 *
<b>3.0</b>	0	71	570	1732	6023	10785 *	14136 *	17367 *	20907 *	24861 *
<b>1.0</b>	0	71	573	1740	6051	10818 *	14215 *	17551 *	21113 *	25046 *
<b>0.0</b>	0	71	575	1744	6065	10834 *	14255 *	17609 *	21182 *	25083 *
<b>-1.0</b>	0	71	576	1748	6077	10831 *	14259 *	17630 *	21195 *	25067 *
<b>-3.0</b>	0	72	579	1756	6102	10824 *	14267 *	17599 *	21157 *	24918 *
<b>-5.0</b>	0	72	582	1748	6046	10684 *	14100 *	17491 *	20939 *	24557 *
<b>-7.0</b>	0	72	577	1740	5993	10583 *	13972 *	17313 *	20630 *	24068 *
<b>-9.0</b>	0	73	575	1726	5905	10451 *	13795 *	17086 *	20246 *	23503 *
<b>-11.0</b>	0	73	571	1705	5791	10276 *	13573 *	16814 *	19809 *	22890 *
<b>-13.0</b>	0	71	566	1679	5651	10059 *	13309 *	16480 *	19333 *	22214 *
<b>-15.0</b>	0	70	560	1647	5486	9800 *	12976 *	16083 *	18817 *	21486 *
<b>-17.0</b>	0	69	552	1609	5297	9501 *	12560 *	15650 *	18244 *	20763 *
<b>-19.5</b>	0	68	540	1555	5027	9084 *	12037 *	15061 *	17472 *	19801 *
<b>-22.5</b>	0	67	523	1479	4673	8528 *	11374 *	14223 *	16527 *	18598 *
<b>-25.5</b>	0	65	503	1406	4277	7907 *	10623 *	13119 *	15519 *	17367 *
<b>-29.0</b>	0	62	476	1310	3756	7134	9567 *	11890 *	14196 *	15955 *
<b>-33.0</b>	0	59	440	1197	3152	6133	8306 *	10492 *	12277 *	14068 *
<b>-37.5</b>	0	55	402	1065	2476	5018	6846	8746 *	10443 *	11802 *
<b>-42.5</b>	0	49	355	928	1889	3712	5264	6808	8204 *	9419 *
<b>-47.5</b>	0	43	302	790	1523	2525	3718	5013	6068	7030
<b>-55.0</b>	0	32	230	585	1081	1537	1911	2490	3166	3753
<b>-65.0</b>	0	20	139	336	610	831	983	1131	1270	1389
<b>-75.0</b>	0	12	67	153	267	356	419	473	517	557
<b>-85.0</b>	0	4	18	35	58	74	85	96	104	109
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**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	3	2	1	1	0	0	0	0	0	0
75.0	136	125	113	101	89	78	66	53	40	26
65.0	737	769	803	830	849	866	879	889	895	897
55.0	2604	2812	3028	3233	3359	3453	3539	3615	3672	3709
47.5	5720	6243	6712	7046	7286	7496 *	7675 *	7844 *	7966 *	8042 *
42.5	8392 *	9099 *	9756 *	10242 *	10552 *	10814 *	11037 *	11219 *	11353 *	11435 *
37.5	11211 *	11981 *	12813 *	13428 *	13852 *	14197 *	14489 *	14728 *	14939 *	15101 *
33.0	13812 *	14856 *	15708 *	16441 *	16991 *	17504 *	17958 *	18335 *	18664 *	18933 *
29.0	16090 *	17330 *	18556 *	19497 *	20166 *	20874 *	21556 *	22142 *	22697 *	23198 *
25.5	18090 *	19662 *	21261 *	22602 *	23715 *	24771 *	25703 *	26928 *	27958 *	28714 *
22.5	19872 *	21803 *	23899 *	25796 *	27598 *	29352 *	30975 *	32953 *	34610 *	35889 *
19.5	21661 *	24034 *	26825 *	29862 *	32545 *	35457 *	38135 *	40775 *	42964 *	44649 *
17.0	23080 *	25997 *	29838 *	33966 *	37483 *	41201 *	44658 *	47459 *	49810 *	51677 *
15.0	24271 *	27770 *	32420 *	37357 *	41665 *	45741 *	49292 *	52386 *	54844 *	56712 *
13.0	25409 *	29681 *	35311 *	40811 *	45466 *	49769 *	53458 *	56597 *	59297 *	61038 *
11.0	26517 *	31533 *	38023 *	44056 *	49007 *	53413 *	57005 *	60107 *	62672 *	64640 *
9.0	27837 *	33430 *	40571 *	46883 *	51953 *	56334 *	59981 *	63034 *	65625 *	67673 *
7.0	28930 *	34939 *	42483 *	48983 *	53925 *	58539 *	62344 *	65497 *	68177 *	70034 *
5.0	29636 *	35976 *	43854 *	50524 *	55449 *	59948 *	63936 *	67270 *	69824 *	71720 *
3.0	30085 *	36575 *	44641 *	51412 *	56393 *	60839 *	64705 *	68101 *	70867 *	72746 *
1.0	30150 *	36848 *	44957 *	51838 *	56947 *	61372 *	65211 *	68429 *	71066 *	73222 *
0.0	30055 *	36780 *	44958 *	52023 *	57083 *	61445 *	65237 *	68457 *	71091 *	73125 *
-1.0	30033 *	36634 *	44684 *	51564 *	56694 *	60972 *	64753 *	68029 *	70749 *	72953 *
-3.0	29755 *	35940 *	43805 *	50559 *	55594 *	60009 *	63929 *	67323 *	70008 *	71915 *
-5.0	29129 *	34958 *	42453 *	49110 *	54139 *	58683 *	62700 *	65894 *	68385 *	70341 *
-7.0	28307 *	33628 *	40662 *	47196 *	52234 *	56684 *	60513 *	63633 *	66166 *	68207 *
-9.0	27281 *	31964 *	38368 *	44589 *	49445 *	53652 *	57519 *	60808 *	63421 *	65459 *
-11.0	26159 *	30057 *	35776 *	41531 *	46025 *	50245 *	54057 *	57379 *	60094 *	62000 *
-13.0	25187 *	28605 *	33416 *	38317 *	42351 *	46340 *	49978 *	53281 *	55955 *	57659 *
-15.0	24160 *	27037 *	30918 *	34833 *	38495 *	42038 *	45411 *	48511 *	51087 *	52746 *
-17.0	23118 *	25506 *	28625 *	31810 *	34435 *	37584 *	40598 *	43368 *	45734 *	47370 *
-19.5	21917 *	23926 *	26203 *	28380 *	30275 *	32338 *	34514 *	36913 *	38833 *	40312 *
-22.5	20497 *	22170 *	23871 *	25295 *	26519 *	27777 *	28924 *	30462 *	31692 *	32595 *
-25.5	19061 *	20478 *	21805 *	22852 *	23750 *	24603 *	25351 *	26211 *	26954 *	27508 *
-29.0	17364 *	18537 *	19623 *	20491 *	21135 *	21755 *	22325 *	22815 *	23258 *	23625 *
-33.0	15397 *	16400 *	17288 *	17996 *	18517 *	19001 *	19453 *	19844 *	20137 *	20338 *
-37.5	13006 *	14070 *	14866 *	15411 *	15800 *	16169 *	16487 *	16755 *	16989 *	17170 *
-42.5	10426 *	11210 *	11870 *	12336 *	12708 *	13053 *	13344 *	13604 *	13826 *	13996 *
-47.5	7806 *	8463 *	9069 *	9490 *	9776 *	10026 *	10239 *	10448 *	10617 *	10746 *
-55.0	4297	4730	5118	5395	5589	5760	5912	6043	6149	6230
-65.0	1489	1565	1642	1700	1742	1780	1813	1841	1864	1880
-75.0	587	610	630	644	655	664	672	678	684	692
-85.0	114	117	119	122	123	124	128	128	128	128
-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	14	6	3	6	14	26	40	53	66	78
65.0	917	923	923	923	917	897	895	889	879	866

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

55.0	3736	3726	3740	3726	3736	3709	3672	3615	3539	3453
47.5	8130 *	8110 *	8102 *	8110 *	8130 *	8042 *	7966 *	7844 *	7675 *	7496 *
42.5	11542 *	11598 *	11641 *	11598 *	11542 *	11435 *	11353 *	11219 *	11037 *	10814 *
37.5	15206 *	15272 *	15323 *	15272 *	15206 *	15101 *	14939 *	14728 *	14489 *	14197 *
33.0	19120 *	19155 *	19268 *	19155 *	19120 *	18933 *	18664 *	18335 *	17958 *	17504 *
29.0	23527 *	23542 *	23680 *	23542 *	23527 *	23198 *	22697 *	22142 *	21556 *	20874 *
25.5	29201 *	29168 *	29389 *	29168 *	29201 *	28714 *	27958 *	26928 *	25703 *	24771 *
22.5	36764 *	36922 *	37147 *	36922 *	36764 *	35889 *	34610 *	32953 *	30975 *	29352 *
19.5	45778 *	46054 *	46270 *	46054 *	45778 *	44649 *	42964 *	40775 *	38135 *	35457 *
17.0	52873 *	53277 *	53494 *	53277 *	52873 *	51677 *	49810 *	47459 *	44658 *	41201 *
15.0	57965 *	58714 *	59167 *	58714 *	57965 *	56712 *	54844 *	52386 *	49292 *	45741 *
13.0	62144 *	62593 *	63057 *	62593 *	62144 *	61038 *	59297 *	56597 *	53458 *	49769 *
11.0	65783 *	66151 *	66570 *	66151 *	65783 *	64640 *	62672 *	60107 *	57005 *	53413 *
9.0	68855 *	69262 *	69627 *	69262 *	68855 *	67673 *	65625 *	63034 *	59981 *	56334 *
7.0	71370 *	71827 *	72118 *	71827 *	71370 *	70034 *	68177 *	65497 *	62344 *	58539 *
5.0	72973 *	73746 *	73903 *	73746 *	72973 *	71720 *	69824 *	67270 *	63936 *	59948 *
3.0	73888 *	74421 *	74632 *	74421 *	73888 *	72746 *	70867 *	68101 *	64705 *	60839 *
1.0	74246 *	74542 *	74582 *	74542 *	74246 *	73222 *	71066 *	68429 *	65211 *	61372 *
0.0	74211 *	74450 *	74428 *	74450 *	74211 *	73125 *	71091 *	68457 *	65237 *	61445 *
-1.0	73944 *	74370 *	74374 *	74370 *	73944 *	72953 *	70749 *	68029 *	64753 *	60972 *
-3.0	73274 *	73866 *	73979 *	73866 *	73274 *	71915 *	70008 *	67323 *	63929 *	60009 *
-5.0	71802 *	72687 *	72724 *	72687 *	71802 *	70341 *	68385 *	65894 *	62700 *	58683 *
-7.0	69653 *	70278 *	70354 *	70278 *	69653 *	68207 *	66166 *	63633 *	60513 *	56684 *
-9.0	66592 *	67320 *	67390 *	67320 *	66592 *	65459 *	63421 *	60808 *	57519 *	53652 *
-11.0	62956 *	63705 *	63873 *	63705 *	62956 *	62000 *	60094 *	57379 *	54057 *	50245 *
-13.0	58760 *	59466 *	59771 *	59466 *	58760 *	57659 *	55955 *	53281 *	49978 *	46340 *
-15.0	53932 *	54776 *	54984 *	54776 *	53932 *	52746 *	51087 *	48511 *	45411 *	42038 *
-17.0	48540 *	49246 *	49506 *	49246 *	48540 *	47370 *	45734 *	43368 *	40598 *	37584 *
-19.5	41426 *	42097 *	42317 *	42097 *	41426 *	40312 *	38833 *	36913 *	34514 *	32338 *
-22.5	33218 *	33364 *	33137 *	33364 *	33218 *	32595 *	31692 *	30462 *	28924 *	27777 *
-25.5	27875 *	27917 *	27818 *	27917 *	27875 *	27508 *	26954 *	26211 *	25351 *	24603 *
-29.0	23871 *	23871 *	23800 *	23871 *	23871 *	23625 *	23258 *	22815 *	22325 *	21755 *
-33.0	20459 *	20493 *	20480 *	20493 *	20459 *	20338 *	20137 *	19844 *	19453 *	19001 *
-37.5	17294 *	17320 *	17301 *	17320 *	17294 *	17170 *	16989 *	16755 *	16487 *	16169 *
-42.5	14176 *	14189 *	14196 *	14189 *	14176 *	13996 *	13826 *	13604 *	13344 *	13053 *
-47.5	10881 *	10888 *	10892 *	10888 *	10881 *	10746 *	10617 *	10448 *	10239 *	10026 *
-55.0	6286	6238	6214	6238	6286	6230	6149	6043	5912	5760
-65.0	1895	1892	1891	1892	1895	1880	1864	1841	1813	1780
-75.0	694	696	697	696	694	692	684	678	672	664
-85.0	128	127	127	127	128	128	128	128	128	124
-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	1	2	3	6	9	12	14	15
75.0	89	101	113	125	136	145	149	155	155	143
65.0	849	830	803	769	737	685	629	564	500	429
55.0	3359	3233	3028	2812	2604	2294	1932	1514	1149	947
47.5	7286	7046	6712	6243	5720	5123	4381	3579	2601	1766
42.5	10552 *	10242 *	9756 *	9099 *	8392 *	7509 *	6457	5270	3983	2785
37.5	13852 *	13428 *	12813 *	11981 *	11211 *	10149 *	8822 *	7265	5542	4017
33.0	16991 *	16441 *	15708 *	14856 *	13812 *	12472 *	11024 *	9190 *	7055	5128
29.0	20166 *	19497 *	18556 *	17330 *	16090 *	14716 *	12833 *	10839 *	8375 *	6139
25.5	23715 *	22602 *	21261 *	19662 *	18090 *	16370 *	14438 *	12187 *	9522 *	6966

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

22.5	27598 *	25796 *	23899 *	21803 *	19872 *	17823 *	15663 *	13322 *	10428 *	7689 *
19.5	32545 *	29862 *	26825 *	24034 *	21661 *	19237 *	16756 *	14292 *	11241 *	8348 *
17.0	37483 *	33966 *	29838 *	25997 *	23080 *	20392 *	17663 *	14981 *	11826 *	8856 *
15.0	41665 *	37357 *	32420 *	27770 *	24271 *	21241 *	18351 *	15498 *	12279 *	9237 *
13.0	45466 *	40811 *	35311 *	29681 *	25409 *	22070 *	18980 *	15976 *	12711 *	9585 *
11.0	49007 *	44056 *	38023 *	31533 *	26517 *	22828 *	19557 *	16383 *	13094 *	9900 *
9.0	51953 *	46883 *	40571 *	33430 *	27837 *	23507 *	20027 *	16707 *	13418 *	10178 *
7.0	53925 *	48983 *	42483 *	34939 *	28930 *	24087 *	20395 *	16974 *	13685 *	10418 *
5.0	55449 *	50524 *	43854 *	35976 *	29636 *	24555 *	20687 *	17182 *	13894 *	10610 *
3.0	56393 *	51412 *	44641 *	36575 *	30085 *	24861 *	20907 *	17367 *	14136 *	10785 *
1.0	56947 *	51838 *	44957 *	36848 *	30150 *	25046 *	21113 *	17551 *	14215 *	10818 *
0.0	57083 *	52023 *	44958 *	36780 *	30055 *	25083 *	21182 *	17609 *	14255 *	10834 *
-1.0	56694 *	51564 *	44684 *	36634 *	30033 *	25067 *	21195 *	17630 *	14259 *	10831 *
-3.0	55594 *	50559 *	43805 *	35940 *	29755 *	24918 *	21157 *	17599 *	14267 *	10824 *
-5.0	54139 *	49110 *	42453 *	34958 *	29129 *	24557 *	20939 *	17491 *	14100 *	10684 *
-7.0	52234 *	47196 *	40662 *	33628 *	28307 *	24068 *	20630 *	17313 *	13972 *	10583 *
-9.0	49445 *	44589 *	38368 *	31964 *	27281 *	23503 *	20246 *	17086 *	13795 *	10451 *
-11.0	46025 *	41531 *	35776 *	30057 *	26159 *	22890 *	19809 *	16814 *	13573 *	10276 *
-13.0	42351 *	38317 *	33416 *	28605 *	25187 *	22214 *	19333 *	16480 *	13309 *	10059 *
-15.0	38495 *	34833 *	30918 *	27037 *	24160 *	21486 *	18817 *	16083 *	12976 *	9800 *
-17.0	34435 *	31810 *	28625 *	25506 *	23118 *	20763 *	18244 *	15650 *	12560 *	9501 *
-19.5	30275 *	28380 *	26203 *	23926 *	21917 *	19801 *	17472 *	15061 *	12037 *	9084 *
-22.5	26519 *	25295 *	23871 *	22170 *	20497 *	18598 *	16527 *	14223 *	11374 *	8528 *
-25.5	23750 *	22852 *	21805 *	20478 *	19061 *	17367 *	15519 *	13119 *	10623 *	7907 *
-29.0	21135 *	20491 *	19623 *	18537 *	17364 *	15955 *	14196 *	11890 *	9567 *	7134
-33.0	18517 *	17996 *	17288 *	16400 *	15397 *	14068 *	12277 *	10492 *	8306 *	6133
-37.5	15800 *	15411 *	14866 *	14070 *	13006 *	11802 *	10443 *	8746 *	6846	5018
-42.5	12708 *	12336 *	11870 *	11210 *	10426 *	9419 *	8204 *	6808	5264	3712
-47.5	9776 *	9490 *	9069 *	8463 *	7806 *	7030	6068	5013	3718	2525
-55.0	5589	5395	5118	4730	4297	3753	3166	2490	1911	1537
-65.0	1742	1700	1642	1565	1489	1389	1270	1131	983	831
-75.0	655	644	630	610	587	557	517	473	419	356
-85.0	123	122	119	117	114	109	104	96	85	74
-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	13	12	8	3	0
75.0	122	81	36	9	0
65.0	327	195	89	15	0
55.0	672	380	163	25	0
47.5	1073	563	225	35	0
42.5	1410	703	276	41	0
37.5	1953	851	324	47	0
33.0	2622	991	365	52	0
29.0	3227	1113	405	56	0
25.5	3770	1222	438	59	0
22.5	4200	1313	463	61	0
19.5	4583	1407	487	63	0
17.0	4889	1478	504	65	0
15.0	5113	1531	517	66	0
13.0	5318	1579	528	67	0
11.0	5502	1622	539	70	0
9.0	5665	1656	548	70	0

IES FLOOD REPORT  
PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES

CANDELA TABULATION - (Cont.)

7.0	5805	1685	556	70	0
5.0	5913	1708	567	70	0
3.0	6023	1732	570	71	0
1.0	6051	1740	573	71	0
0.0	6065	1744	575	71	0
-1.0	6077	1748	576	71	0
-3.0	6102	1756	579	72	0
-5.0	6046	1748	582	72	0
-7.0	5993	1740	577	72	0
-9.0	5905	1726	575	73	0
-11.0	5791	1705	571	73	0
-13.0	5651	1679	566	71	0
-15.0	5486	1647	560	70	0
-17.0	5297	1609	552	69	0
-19.5	5027	1555	540	68	0
-22.5	4673	1479	523	67	0
-25.5	4277	1406	503	65	0
-29.0	3756	1310	476	62	0
-33.0	3152	1197	440	59	0
-37.5	2476	1065	402	55	0
-42.5	1889	928	355	49	0
-47.5	1523	790	302	43	0
-55.0	1081	585	230	32	0
-65.0	610	336	139	20	0
-75.0	267	153	67	12	0
-85.0	58	35	18	4	0
-90.0	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 32548.84

Total Field Lumens (one side of beam only) = 29423.79

\* 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	0.03	0.06	0.10	0.14	0.18	0.21	0.25	0.28	0.39
65	1.41	2.83	2.82	2.81	2.83	2.83	2.81	2.78	2.74	3.34
55	7.09	14.16	14.07	13.89	13.68	13.38	13.02	12.60	12.11	14.27
47.5	13.52	27.06	26.91	26.57	26.13	25.50	24.76	23.93	22.97	27.15
42.5	15.02 *	29.97 *	29.74 *	29.38 *	28.94 *	28.33 *	27.58 *	26.71 *	25.71 *	30.51 *
37.5	20.50 *	40.81 *	40.48 *	40.01 *	39.39 *	38.60 *	37.64 *	36.51 *	35.19 *	41.80 *
33	23.65 *	47.09 *	46.74 *	46.10 *	45.25 *	44.22 *	43.00 *	41.59 *	40.00 *	47.50 *
29	26.09 *	51.96 *	51.52 *	50.59 *	49.37 *	47.99 *	46.42 *	44.65 *	42.80 *	50.77 *
25.5	28.19 *	56.17 *	55.64 *	54.37 *	52.64 *	50.57 *	48.44 *	46.30 *	44.06 *	51.84 *
22.5	30.30 *	60.30 *	59.51 *	57.79 *	55.40 *	52.45 *	49.52 *	46.74 *	43.79 *	50.74 *
19.5	38.01 *	75.58 *	74.33 *	71.85 *	68.46 *	64.27 *	59.85 *	55.40 *	50.86 *	57.70 *
17	37.90 *	75.34 *	74.06 *	71.61 *	68.25 *	64.13 *	59.38 *	54.19 *	48.99 *	54.46 *
15	34.21 *	67.83 *	66.61 *	64.54 *	61.68 *	58.13 *	53.90 *	49.09 *	44.06 *	48.30 *
13	37.09 *	73.49 *	72.28 *	70.25 *	67.30 *	63.51 *	59.07 *	53.98 *	48.40 *	52.76 *
11	39.35 *	78.13 *	77.06 *	75.02 *	71.99 *	68.14 *	63.65 *	58.42 *	52.51 *	57.20 *
9	41.37 *	82.21 *	81.12 *	78.95 *	75.84 *	72.03 *	67.55 *	62.28 *	56.19 *	61.30 *
7	43.08 *	85.64 *	84.45 *	82.25 *	79.13 *	75.25 *	70.67 *	65.24 *	59.07 *	64.70 *
5	44.41 *	88.26 *	86.93 *	84.75 *	81.67 *	77.71 *	72.93 *	67.35 *	61.16 *	67.20 *
3	45.19 *	89.81 *	88.52 *	86.38 *	83.27 *	79.20 *	74.32 *	68.75 *	62.59 *	68.86 *
1	45.41 *	90.44 *	89.37 *	87.21 *	83.99 *	79.93 *	75.12 *	69.62 *	63.42 *	69.73 *
0	22.69 *	45.27 *	44.79 *	43.70 *	42.08 *	40.10 *	37.73 *	35.00 *	31.90 *	35.03 *
-1	22.66 *	45.20 *	44.70 *	43.61 *	41.98 *	39.97 *	37.60 *	34.90 *	31.82 *	34.93 *
	45.17 *	89.94 *	88.75 *	86.53 *	83.28 *	79.20 *	74.39 *	68.94 *	62.78 *	68.92 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	44.66 *	88.78 *	87.31 *	85.02 *	81.93 *	77.95 *	73.09 *	67.51 *	61.31 *	67.23 *
<b>-5</b>	43.56 *	86.58 *	85.08 *	82.73 *	79.66 *	75.82 *	71.08 *	65.54 *	59.34 *	64.88 *
<b>-7</b>	41.93 *	83.36 *	82.02 *	79.75 *	76.62 *	72.74 *	68.04 *	62.66 *	56.65 *	61.76 *
<b>-9</b>	39.95 *	79.32 *	78.09 *	76.03 *	72.91 *	68.92 *	64.20 *	58.92 *	53.17 *	57.95 *
<b>-11</b>	37.59 *	74.55 *	73.34 *	71.40 *	68.38 *	64.40 *	59.77 *	54.67 *	49.26 *	53.89 *
<b>-13</b>	34.88 *	69.08 *	67.79 *	65.87 *	62.99 *	59.15 *	54.75 *	50.01 *	45.09 *	49.71 *
<b>-15</b>	31.76 *	62.86 *	61.56 *	59.66 *	56.92 *	53.36 *	49.35 *	45.09 *	40.87 *	45.63 *
<b>-17</b>	34.87 *	68.99 *	67.48 *	65.22 *	62.16 *	58.27 *	54.02 *	49.74 *	45.71 *	51.99 *
<b>-19.5</b>	34.48 *	68.54 *	67.25 *	65.18 *	62.39 *	58.86 *	55.22 *	51.83 *	48.52 *	56.27 *
<b>-22.5</b>	27.92 *	55.88 *	55.24 *	53.96 *	52.18 *	49.92 *	47.67 *	45.51 *	43.22 *	50.89 *
<b>-25.5</b>	27.56 *	55.16 *	54.71 *	53.73 *	52.38 *	50.76 *	49.03 *	47.19 *	45.21 *	53.64 *
<b>-29</b>	27.00 *	54.00 *	53.66 *	52.93 *	51.91 *	50.66 *	49.18 *	47.53 *	45.76 *	54.53 *
<b>-33</b>	25.90 *	51.76 *	51.45 *	50.87 *	50.04 *	48.96 *	47.67 *	46.21 *	44.62 *	53.34 *
<b>-37.5</b>	23.99 *	47.93 *	47.58 *	46.94 *	46.13 *	45.14 *	43.99 *	42.66 *	41.18 *	49.25 *
<b>-42.5</b>	19.10 *	38.15 *	37.83 *	37.25 *	36.57 *	35.72 *	34.76 *	33.67 *	32.44 *	38.66 *
<b>-47.5</b>	19.55 *	39.15 *	38.91 *	38.33 *	37.62 *	36.72 *	35.68 *	34.53 *	33.21 *	39.42
<b>-55</b>	12.36	24.83	24.75	24.42	23.98	23.41	22.74	21.98	21.12	25.05
<b>-65</b>	3.94	7.88	7.84	7.76	7.64	7.51	7.34	7.15	6.94	8.35
<b>-75</b>	1.25	2.50	2.49	2.47	2.44	2.41	2.37	2.31	2.26	2.74
<b>-85</b>	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.22
<b>-90</b>	0.10	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.22
<b>Total</b>	1194.7	2377.01	2345.03	2287.96	2207.76	2106.49	1989.71	1860.11	1719.47	1944.8

**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	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.03
<b>85</b>	0.51	0.56	0.69	0.81	0.91	0.98	0.88	1.05	0.87	0.36
<b>75</b>	3.86	3.69	4.03	4.20	4.19	4.01	3.30	3.65	2.76	1.04
<b>65</b>	15.81	14.45	14.97	14.46	12.98	10.87	8.14	8.48	5.99	2.15
<b>55</b>	30.06	27.20	27.97	26.88	23.93	19.34	13.05	11.94	7.67	2.60

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	33.92 *	30.73	31.68	30.63	27.54	22.50	14.99	12.56	7.13	2.30
<b>42.5</b>										
	46.54 *	42.45 *	44.14 *	42.99 *	38.91	32.16	21.97	18.16	9.35	2.80
<b>37.5</b>										
	53.13 *	48.70 *	50.80 *	49.89 *	45.70 *	38.12	26.33	22.06	10.98	2.96
<b>33</b>										
	56.69 *	51.83 *	54.10 *	53.30 *	49.11 *	41.36 *	28.74	24.46	12.10	2.99
<b>29</b>										
	57.33 *	51.98 *	54.12 *	53.32 *	49.25 *	41.77 *	29.21 *	25.13	12.42	2.89
<b>25.5</b>										
	55.42 *	49.73 *	51.29 *	50.35 *	46.68 *	39.77 *	27.94 *	24.25	11.98	2.68
<b>22.5</b>										
	61.78 *	54.70 *	55.86 *	54.41 *	50.39 *	43.11 *	30.45 *	26.60	13.12	2.86
<b>19.5</b>										
	56.89 *	49.44 *	49.97 *	48.33 *	44.55 *	38.16 *	27.10 *	23.82	11.75	2.52
<b>17</b>										
	49.49 *	42.20 *	42.16 *	40.54 *	37.21 *	31.83 *	22.72 *	20.07	9.90	2.10
<b>15</b>										
	53.39 *	44.71 *	44.06 *	42.10 *	38.50 *	32.93 *	23.58 *	20.90	10.30	2.16
<b>13</b>										
	57.39 *	47.22 *	45.88 *	43.56 *	39.67 *	33.92 *	24.38 *	21.65 *	10.66	2.22
<b>11</b>										
	61.23 *	49.80 *	47.71 *	44.86 *	40.67 *	34.76 *	25.08 *	22.32 *	10.99	2.27
<b>9</b>										
	64.59 *	52.23 *	49.45 *	45.95 *	41.47 *	35.45 *	25.68 *	22.91 *	11.26	2.31
<b>7</b>										
	67.07 *	54.04 *	50.80 *	46.85 *	42.10 *	36.00 *	26.17 *	23.40 *	11.49	2.35
<b>5</b>										
	68.69 *	55.21 *	51.71 *	47.52 *	42.61 *	36.50 *	26.61 *	23.81 *	11.69	2.38
<b>3</b>										
	69.53 *	55.79 *	52.19 *	48.00 *	43.05 *	36.90 *	26.89 *	24.06 *	11.82	2.40
<b>1</b>										
	34.88 *	27.93 *	26.14 *	24.13 *	21.67 *	18.55 *	13.49 *	12.06 *	5.93	1.20
<b>0</b>										
	34.77 *	27.86 *	26.12 *	24.15 *	21.72 *	18.59 *	13.51 *	12.08 *	5.95	1.21
<b>-1</b>										
	68.70 *	55.24 *	52.02 *	48.21 *	43.41 *	37.18 *	27.01 *	24.17 *	11.93	2.42
<b>-3</b>										
	67.03 *	54.17 *	51.35 *	47.81 *	43.19 *	37.01 *	26.85 *	24.05 *	11.90	2.43
<b>-5</b>										
	64.70 *	52.60 *	50.26 *	47.09 *	42.74 *	36.67 *	26.56 *	23.80 *	11.81	2.42
<b>-7</b>										
	61.69 *	50.58 *	48.88 *	46.18 *	42.12 *	36.25 *	26.27 *	23.53 *	11.69	2.40
<b>-9</b>										
	58.08 *	48.19 *	47.31 *	45.14 *	41.38 *	35.73 *	25.89 *	23.17 *	11.51	2.38
<b>-11</b>										
	54.53 *	45.91 *	45.70 *	43.99 *	40.53 *	35.09 *	25.42 *	22.70 *	11.28	2.35
<b>-13</b>										
	51.17 *	43.82 *	44.09 *	42.73 *	39.57 *	34.32 *	24.84 *	22.15 *	11.00	2.32
<b>-15</b>										
	47.81 *	41.66 *	42.42 *	41.41 *	38.50 *	33.40 *	24.14 *	21.49 *	10.68	2.27
<b>-17</b>										
	55.59 *	49.29 *	50.70 *	49.78 *	46.46 *	40.32 *	29.06 *	25.82	12.82	2.77
<b>-19.5</b>										
	61.53 *	55.41 *	57.44 *	56.70 *	53.12 *	46.10 *	33.13 *	29.27	14.53	3.20

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	56.51 *	51.47 *	53.68 *	53.26 *	49.85 *	43.16 *	31.03 *	27.21	13.50	3.05
<b>-25.5</b>	60.04 *	55.10 *	57.84 *	57.60 *	53.59 *	46.13 *	33.19 *	28.85	14.31	3.36
<b>-29</b>	61.29 *	56.51 *	59.50 *	58.99 *	54.68 *	46.95 *	33.53 *	28.83	14.32	3.56
<b>-33</b>	60.10 *	55.29 *	57.86 *	57.08 *	52.83 *	45.13 *	31.86	26.97	13.50	3.63
<b>-37.5</b>	55.47 *	50.83 *	52.90 *	52.04 *	47.84 *	40.33	28.05	23.39	12.09	3.58
<b>-42.5</b>	43.31 *	39.55 *	41.08 *	40.10 *	36.50	30.33	20.48	17.24	9.75	3.09
<b>-47.5</b>	43.79	39.59	40.67	39.19	35.12	28.72	19.56	17.86	11.35	3.72
<b>-55</b>	27.84	25.21	25.89	25.00	22.54	19.00	14.16	14.50	9.93	3.36
<b>-65</b>	9.48	8.87	9.53	9.75	9.49	8.77	6.97	7.37	5.19	1.81
<b>-75</b>	3.15	2.98	3.24	3.36	3.33	3.13	2.51	2.70	1.95	0.71
<b>-85</b>	0.25	0.24	0.26	0.28	0.28	0.26	0.21	0.24	0.18	0.07
<b>-90</b>										
<b>Total</b>	2045.04	1764.97	1768.47	1702.95	1559.91	1331.59	950.96	840.80	431.38	103.69

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.01	0.00	0.28	
<b>85</b>				
	0.07	0.00	9.33	
<b>75</b>				
	0.20	0.00	62.13	
<b>65</b>				
	0.39	0.01	236.96	
<b>55</b>				
	0.44	0.01	435.60	
<b>47.5</b>				
	0.38	0.01	486.27	
<b>42.5</b>				
	0.45	0.01	670.87	
<b>37.5</b>				
	0.47	0.01	774.29	
<b>33</b>				
	0.46	0.01	837.31	
<b>29</b>				
	0.44	0.01	866.11	
<b>25.5</b>				
	0.40	0.01	867.04	
<b>22.5</b>				
	0.43	0.01	1010.02	
<b>19.5</b>				
	0.37	0.01	961.21	
<b>17</b>				
	0.30	0.00	846.89	

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

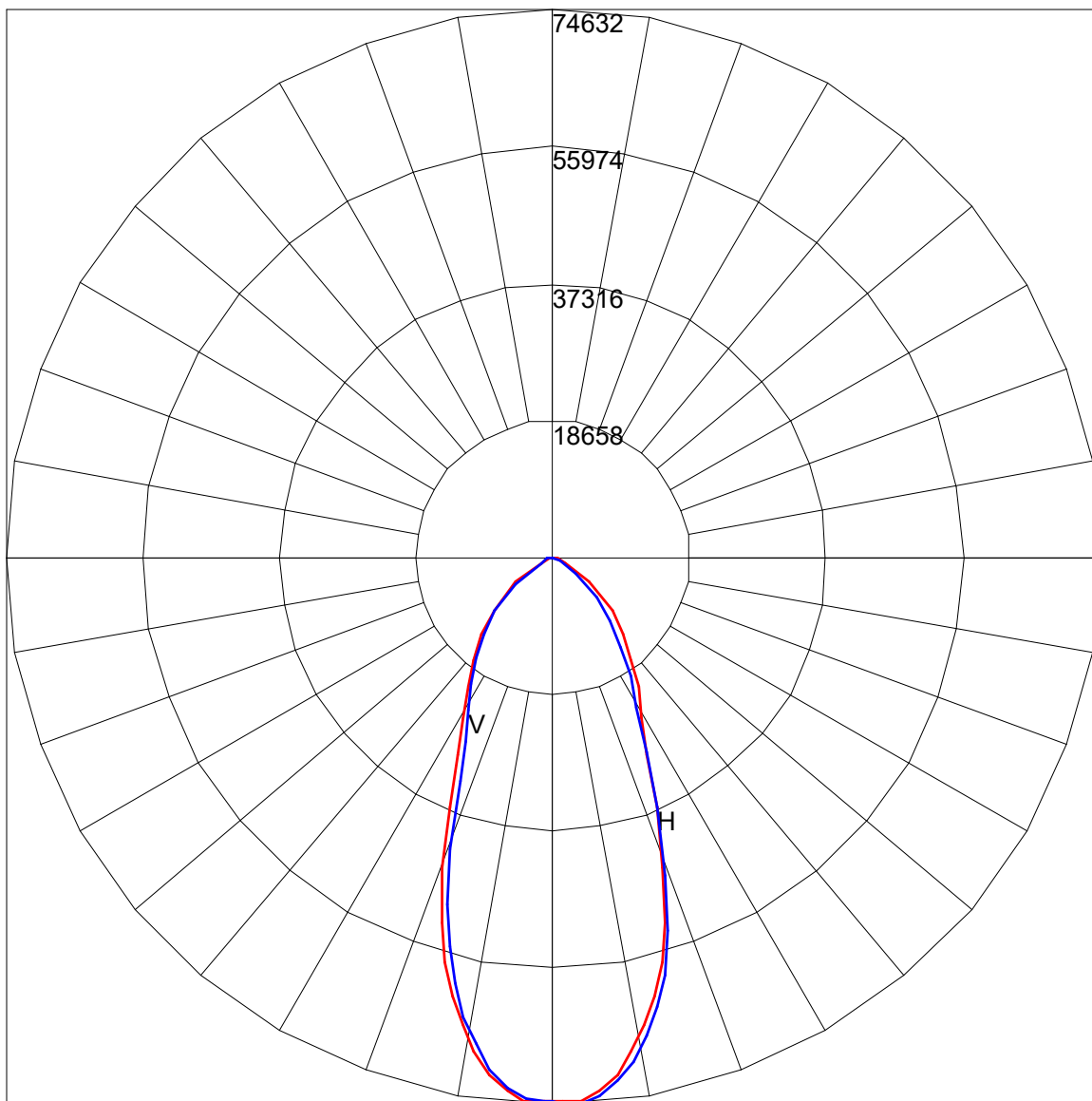
<b>15</b>	0.31	0.00	911.10
<b>13</b>	0.32	0.00	968.38
<b>11</b>	0.32	0.00	1018.85
<b>9</b>	0.33	0.00	1061.11
<b>7</b>	0.33	0.00	1092.97
<b>5</b>	0.34	0.00	1113.97
<b>3</b>	0.34	0.00	1125.22
<b>1</b>	0.17	0.00	564.47
<b>0</b>	0.17	0.00	563.51
<b>-1</b>	0.34	0.00	1118.56
<b>-3</b>	0.34	0.00	1100.92
<b>-5</b>	0.34	0.00	1073.26
<b>-7</b>	0.34	0.00	1035.47
<b>-9</b>	0.34	0.00	988.58
<b>-11</b>	0.34	0.00	935.12
<b>-13</b>	0.33	0.00	875.68
<b>-15</b>	0.33	0.00	811.16
<b>-17</b>	0.41	0.01	921.46
<b>-19.5</b>	0.47	0.01	979.44
<b>-22.5</b>	0.46	0.01	865.58
<b>-25.5</b>	0.51	0.01	899.90
<b>-29</b>	0.55	0.01	905.87
<b>-33</b>	0.57	0.01	875.65
<b>-37.5</b>	0.57	0.01	801.87
<b>-42.5</b>	0.49	0.01	626.08
<b>-47.5</b>	0.60	0.01	633.30
<b>-55</b>	0.56	0.01	412.64
<b>-65</b>	0.31	0.01	149.89

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-70L-WF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

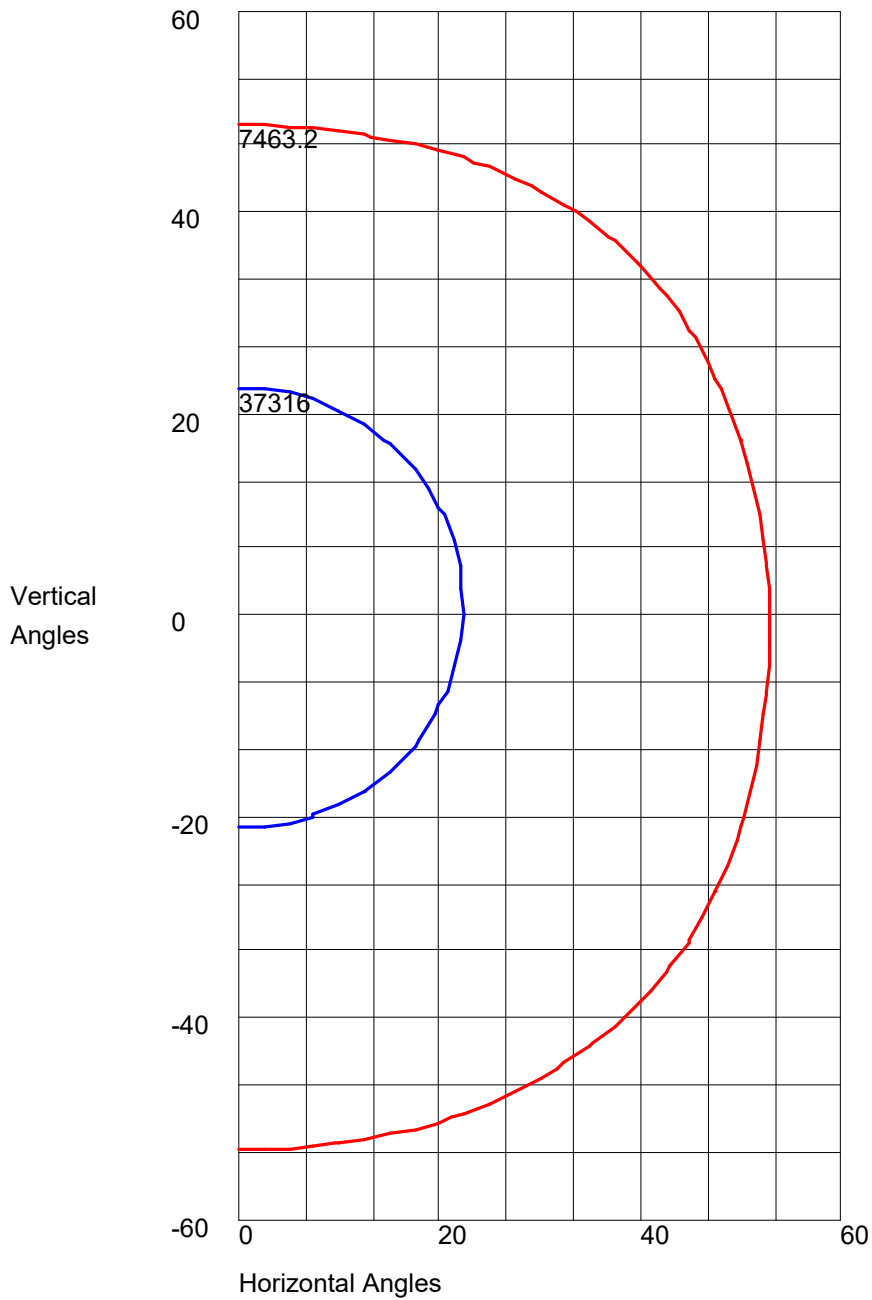
<b>-75</b>	0.13	0.00	50.45
<b>-85</b>	0.01	0.00	4.12
<b>-90</b>			
<b>Total</b>	15.82	0.24	32548.86

AXIAL CANDELA DISPLAY



Maximum Candela = 74632 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 74632 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 37316  
10% Maximum Candela = 7463.2