



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-WF-40-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-100L-WF-40-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] 4000

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

### CHARACTERISTICS

NEMA Type	6 H x 6 V
Maximum Candela	105597
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	36388
Beam Efficiency	N.A.
Field Lumens	83264
Field Efficiency	N.A.
Spill Lumens	8844
Luminaire Lumens	92108
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	101	85	0
75	814	75	5
65	2468	65	1306
55	8581	55	5292
47.5	15330	47.5	11464
42.5	20170	42.5	16471
37.5	24916	37.5	21681
33	29972	33	27263
29	35490	29	33505
25.5	42524	25.5	41583
22.5	52041	22.5	52560
19.5	63612	19.5	65468
17	73609	17	75690
15	80767	15	83716
13	86939	13	89219
11	92305	11	94191
9	96860	9	98517
7	100587	7	102041
5	103465	5	104566
3	105002	3	105597
1	105340	1	105527
0	105309	0	105309
-1	105340	-1	105233
-3	105002	-3	104674
-5	103465	-5	102898
-7	100587	-7	99544
-9	96860	-9	95351
-11	92305	-11	90374
-13	86939	-13	84571
-15	80767	-15	77797
-17	73609	-17	70046
-19.5	63612	-19.5	59874
-22.5	52041	-22.5	46886
-25.5	42524	-25.5	39359
-29	35490	-29	33675
-33	29972	-33	28978
-37.5	24916	-37.5	24479
-42.5	20170	-42.5	20085
-47.5	15330	-47.5	15412
-55	8581	-55	8793
-65	2468	-65	2676
-75	814	-75	986
-85	101	-85	180
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 105597

Beam Edge = 52798.5 Cd (50% of Max.)

Field Edge = 10559.7 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	4	11	16	19	21	19	16	13	9
<b>75.0</b>	0	13	51	115	172	202	219	219	211	205
<b>65.0</b>	0	22	126	276	462	606	706	798	891	969
<b>55.0</b>	0	36	231	537	952	1339	1626	2142	2733	3247
<b>47.5</b>	0	50	319	796	1518	2498	3681	5063	6198	7248
<b>42.5</b>	0	58	391	994	1996	3941	5635	7457	9136	10624 *
<b>37.5</b>	0	66	459	1205	2764	5684	7841	10280	12483 *	14360 *
<b>33.0</b>	0	73	518	1402	3709	7255	9982	13003 *	15597 *	17647 *
<b>29.0</b>	0	79	574	1575	4565	8686	11851 *	15336 *	18158 *	20822 *
<b>25.5</b>	0	83	620	1729	5334	9856	13474 *	17244 *	20428 *	23162 *
<b>22.5</b>	0	86	656	1857	5942	10879 *	14754 *	18850 *	22162 *	25218 *
<b>19.5</b>	0	89	689	1990	6485	11812 *	15905 *	20222 *	23709 *	27218 *
<b>17.0</b>	0	92	714	2092	6917	12532 *	16734 *	21198 *	24991 *	28853 *
<b>15.0</b>	0	93	732	2166	7234	13070 *	17374 *	21929 *	25966 *	30055 *
<b>13.0</b>	0	95	748	2234	7524	13563 *	17985 *	22605 *	26855 *	31227 *
<b>11.0</b>	0	99	763	2296	7785	14007 *	18527 *	23180 *	27671 *	32300 *
<b>9.0</b>	0	99	776	2344	8016	14401 *	18986 *	23639 *	28337 *	33260 *
<b>7.0</b>	0	100	788	2384	8214	14740 *	19363 *	24017 *	28858 *	34082 *
<b>5.0</b>	0	100	803	2417	8366	15013 *	19659 *	24311 *	29270 *	34743 *
<b>3.0</b>	0	100	807	2451	8521	15260 *	20001 *	24572 *	29582 *	35177 *
<b>1.0</b>	0	101	812	2462	8561	15307 *	20114 *	24834 *	29874 *	35437 *
<b>0.0</b>	0	101	814	2468	8581	15330 *	20170 *	24916 *	29972 *	35490 *
<b>-1.0</b>	0	101	816	2474	8599	15325 *	20176 *	24945 *	29989 *	35468 *
<b>-3.0</b>	0	102	820	2485	8633	15315 *	20187 *	24902 *	29934 *	35258 *
<b>-5.0</b>	0	102	824	2473	8555	15116 *	19950 *	24749 *	29627 *	34747 *
<b>-7.0</b>	0	103	816	2461	8480	14974 *	19769 *	24497 *	29189 *	34054 *
<b>-9.0</b>	0	103	813	2441	8355	14787 *	19519 *	24175 *	28646 *	33254 *
<b>-11.0</b>	0	103	808	2412	8193	14539 *	19204 *	23790 *	28028 *	32388 *
<b>-13.0</b>	0	100	801	2375	7996	14232 *	18830 *	23318 *	27354 *	31432 *
<b>-15.0</b>	0	99	792	2329	7763	13867 *	18360 *	22756 *	26625 *	30401 *
<b>-17.0</b>	0	98	781	2276	7495	13443 *	17771 *	22143 *	25813 *	29378 *
<b>-19.5</b>	0	97	764	2200	7113	12853 *	17030 *	21310 *	24720 *	28017 *
<b>-22.5</b>	0	95	740	2093	6612	12067 *	16093 *	20125 *	23384 *	26315 *
<b>-25.5</b>	0	92	711	1989	6052	11188 *	15031 *	18562 *	21958 *	24573 *
<b>-29.0</b>	0	88	673	1854	5315	10094	13538 *	16823 *	20087 *	22575 *
<b>-33.0</b>	0	84	623	1694	4460	8677	11753 *	14846 *	17370 *	19904 *
<b>-37.5</b>	0	77	570	1507	3503	7101	9686	12375 *	14775 *	16698 *
<b>-42.5</b>	0	69	503	1313	2672	5253	7448	9633	11608 *	13327 *
<b>-47.5</b>	0	60	427	1117	2155	3574	5260	7094	8586	9947
<b>-55.0</b>	0	45	325	827	1530	2175	2703	3522	4479	5310
<b>-65.0</b>	0	28	197	476	864	1177	1391	1601	1798	1966
<b>-75.0</b>	0	18	94	216	377	504	593	669	732	788
<b>-85.0</b>	0	6	25	50	81	105	121	136	147	155
<b>-90.0</b>	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	192	177	160	142	127	111	93	75	56	37
65.0	1043	1088	1136	1174	1202	1226	1244	1257	1265	1269
55.0	3685	3979	4285	4574	4753	4887	5008	5115	5195	5248
47.5	8093	8834	9497	9969	10309	10605 *	10859 *	11098 *	11271 *	11379 *
42.5	11874 *	12874 *	13803 *	14491 *	14931 *	15302 *	15616 *	15874 *	16062 *	16178 *
37.5	15862 *	16952 *	18129 *	18999 *	19598 *	20087 *	20501 *	20839 *	21138 *	21366 *
33.0	19542 *	21020 *	22226 *	23263 *	24041 *	24767 *	25409 *	25943 *	26408 *	26789 *
29.0	22767 *	24520 *	26254 *	27586 *	28533 *	29534 *	30499 *	31330 *	32114 *	32823 *
25.5	25596 *	27820 *	30082 *	31980 *	33555 *	35049 *	36368 *	38100 *	39558 *	40627 *
22.5	28116 *	30849 *	33816 *	36500 *	39050 *	41530 *	43827 *	46625 *	48971 *	50780 *
19.5	30648 *	34006 *	37955 *	42252 *	46049 *	50168 *	53958 *	57694 *	60791 *	63174 *
17.0	32656 *	36785 *	42219 *	48059 *	53036 *	58295 *	63187 *	67151 *	70477 *	73119 *
15.0	34341 *	39292 *	45872 *	52858 *	58952 *	64719 *	69743 *	74121 *	77599 *	80243 *
13.0	35952 *	41996 *	49963 *	57743 *	64330 *	70418 *	75637 *	80079 *	83900 *	86363 *
11.0	37520 *	44617 *	53799 *	62334 *	69341 *	75575 *	80656 *	85046 *	88675 *	91460 *
9.0	39387 *	47300 *	57404 *	66335 *	73509 *	79708 *	84868 *	89188 *	92853 *	95752 *
7.0	40933 *	49437 *	60110 *	69307 *	76299 *	82828 *	88212 *	92673 *	96464 *	99091 *
5.0	41932 *	50904 *	62050 *	71487 *	78455 *	84821 *	90465 *	95182 *	98795 *	101477 *
3.0	42568 *	51751 *	63164 *	72744 *	79792 *	86082 *	91552 *	96356 *	100270 *	102930 *
1.0	42659 *	52138 *	63610 *	73346 *	80575 *	86836 *	92268 *	96821 *	100553 *	103602 *
0.0	42524 *	52041 *	63612 *	73609 *	80767 *	86939 *	92305 *	96860 *	100587 *	103465 *
-1.0	42494 *	51834 *	63224 *	72959 *	80217 *	86270 *	91620 *	96255 *	100103 *	103221 *
-3.0	42101 *	50851 *	61980 *	71537 *	78660 *	84907 *	90454 *	95256 *	99055 *	101754 *
-5.0	41215 *	49463 *	60067 *	69487 *	76602 *	83031 *	88715 *	93234 *	96758 *	99527 *
-7.0	40051 *	47582 *	57533 *	66779 *	73907 *	80203 *	85620 *	90036 *	93620 *	96507 *
-9.0	38600 *	45227 *	54288 *	63089 *	69960 *	75912 *	81383 *	86038 *	89736 *	92619 *
-11.0	37013 *	42527 *	50620 *	58763 *	65122 *	71092 *	76486 *	81186 *	85028 *	87725 *
-13.0	35637 *	40473 *	47281 *	54215 *	59923 *	65567 *	70714 *	75388 *	79171 *	81583 *
-15.0	34184 *	38255 *	43745 *	49286 *	54468 *	59479 *	64253 *	68639 *	72284 *	74631 *
-17.0	32710 *	36089 *	40501 *	45008 *	48722 *	53178 *	57442 *	61362 *	64710 *	67024 *
-19.5	31012 *	33854 *	37075 *	40155 *	42837 *	45756 *	48835 *	52229 *	54946 *	57038 *
-22.5	29002 *	31368 *	33775 *	35791 *	37522 *	39302 *	40924 *	43101 *	44841 *	46119 *
-25.5	26971 *	28975 *	30853 *	32334 *	33604 *	34812 *	35869 *	37086 *	38137 *	38921 *
-29.0	24569 *	26228 *	27765 *	28993 *	29905 *	30781 *	31588 *	32280 *	32907 *	33427 *
-33.0	21786 *	23204 *	24461 *	25463 *	26200 *	26885 *	27525 *	28077 *	28492 *	28777 *
-37.5	18401 *	19907 *	21035 *	21806 *	22357 *	22878 *	23328 *	23707 *	24038 *	24293 *
-42.5	14752 *	15862 *	16796 *	17455 *	17982 *	18469 *	18880 *	19248 *	19562 *	19802 *
-47.5	11045 *	11974 *	12833 *	13427 *	13833 *	14185 *	14487 *	14783 *	15022 *	15204 *
-55.0	6080	6694	7242	7633	7908	8150	8365	8550	8700	8815
-65.0	2107	2214	2323	2405	2464	2518	2566	2606	2637	2660
-75.0	830	863	891	912	926	939	951	960	968	980
-85.0	161	165	170	173	175	177	182	182	182	182
-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	37	56	75	93	111
65.0	1297	1305	1306	1305	1297	1269	1265	1257	1244	1226

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**CANDELA TABULATION - (Cont.)**

55.0	5285	5272	5292	5272	5285	5248	5195	5115	5008	4887
47.5	11503 *	11475 *	11464 *	11475 *	11503 *	11379 *	11271 *	11098 *	10859 *	10605 *
42.5	16330 *	16409 *	16471 *	16409 *	16330 *	16178 *	16062 *	15874 *	15616 *	15302 *
37.5	21514 *	21609 *	21681 *	21609 *	21514 *	21366 *	21138 *	20839 *	20501 *	20087 *
33.0	27053 *	27103 *	27263 *	27103 *	27053 *	26789 *	26408 *	25943 *	25409 *	24767 *
29.0	33289 *	33309 *	33505 *	33309 *	33289 *	32823 *	32114 *	31330 *	30499 *	29534 *
25.5	41317 *	41271 *	41583 *	41271 *	41317 *	40627 *	39558 *	38100 *	36368 *	35049 *
22.5	52018 *	52242 *	52560 *	52242 *	52018 *	50780 *	48971 *	46625 *	43827 *	41530 *
19.5	64772 *	65163 *	65468 *	65163 *	64772 *	63174 *	60791 *	57694 *	53958 *	50168 *
17.0	74810 *	75382 *	75690 *	75382 *	74810 *	73119 *	70477 *	67151 *	63187 *	58295 *
15.0	82015 *	83075 *	83716 *	83075 *	82015 *	80243 *	77599 *	74121 *	69743 *	64719 *
13.0	87928 *	88563 *	89219 *	88563 *	87928 *	86363 *	83900 *	80079 *	75637 *	70418 *
11.0	93077 *	93598 *	94191 *	93598 *	93077 *	91460 *	88675 *	85046 *	80656 *	75575 *
9.0	97423 *	97999 *	98517 *	97999 *	97423 *	95752 *	92853 *	89188 *	84868 *	79708 *
7.0	100982 *	101628 *	102041 *	101628 *	100982 *	99091 *	96464 *	92673 *	88212 *	82828 *
5.0	103250 *	104344 *	104566 *	104344 *	103250 *	101477 *	98795 *	95182 *	90465 *	84821 *
3.0	104545 *	105299 *	105597 *	105299 *	104545 *	102930 *	100270 *	96356 *	91552 *	86082 *
1.0	105051 *	105470 *	105527 *	105470 *	105051 *	103602 *	100553 *	96821 *	92268 *	86836 *
0.0	105002 *	105340 *	105309 *	105340 *	105002 *	103465 *	100587 *	96860 *	92305 *	86939 *
-1.0	104625 *	105227 *	105233 *	105227 *	104625 *	103221 *	100103 *	96255 *	91620 *	86270 *
-3.0	103676 *	104513 *	104674 *	104513 *	103676 *	101754 *	99055 *	95256 *	90454 *	84907 *
-5.0	101594 *	102846 *	102898 *	102846 *	101594 *	99527 *	96758 *	93234 *	88715 *	83031 *
-7.0	98554 *	99437 *	99544 *	99437 *	98554 *	96507 *	93620 *	90036 *	85620 *	80203 *
-9.0	94222 *	95251 *	95351 *	95251 *	94222 *	92619 *	89736 *	86038 *	81383 *	75912 *
-11.0	89077 *	90137 *	90374 *	90137 *	89077 *	87725 *	85028 *	81186 *	76486 *	71092 *
-13.0	83140 *	84140 *	84571 *	84140 *	83140 *	81583 *	79171 *	75388 *	70714 *	65567 *
-15.0	76309 *	77503 *	77797 *	77503 *	76309 *	74631 *	72284 *	68639 *	64253 *	59479 *
-17.0	68680 *	69679 *	70046 *	69679 *	68680 *	67024 *	64710 *	61362 *	57442 *	53178 *
-19.5	58615 *	59564 *	59874 *	59564 *	58615 *	57038 *	54946 *	52229 *	48835 *	45756 *
-22.5	47001 *	47208 *	46886 *	47208 *	47001 *	46119 *	44841 *	43101 *	40924 *	39302 *
-25.5	39440 *	39500 *	39359 *	39500 *	39440 *	38921 *	38137 *	37086 *	35869 *	34812 *
-29.0	33776 *	33776 *	33675 *	33776 *	33776 *	33427 *	32907 *	32280 *	31588 *	30781 *
-33.0	28948 *	28996 *	28978 *	28996 *	28948 *	28777 *	28492 *	28077 *	27525 *	26885 *
-37.5	24469 *	24506 *	24479 *	24506 *	24469 *	24293 *	24038 *	23707 *	23328 *	22878 *
-42.5	20057 *	20076 *	20085 *	20076 *	20057 *	19802 *	19562 *	19248 *	18880 *	18469 *
-47.5	15395 *	15406 *	15412 *	15406 *	15395 *	15204 *	15022 *	14783 *	14487 *	14185 *
-55.0	8894	8827	8793	8827	8894	8815	8700	8550	8365	8150
-65.0	2681	2678	2676	2678	2681	2660	2637	2606	2566	2518
-75.0	982	985	986	985	982	980	968	960	951	939
-85.0	181	180	180	180	181	182	182	182	182	177
-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	16	19	21
75.0	127	142	160	177	192	205	211	219	219	202
65.0	1202	1174	1136	1088	1043	969	891	798	706	606
55.0	4753	4574	4285	3979	3685	3247	2733	2142	1626	1339
47.5	10309	9969	9497	8834	8093	7248	6198	5063	3681	2498
42.5	14931 *	14491 *	13803 *	12874 *	11874 *	10624 *	9136	7457	5635	3941
37.5	19598 *	18999 *	18129 *	16952 *	15862 *	14360 *	12483 *	10280	7841	5684
33.0	24041 *	23263 *	22226 *	21020 *	19542 *	17647 *	15597 *	13003 *	9982	7255
29.0	28533 *	27586 *	26254 *	24520 *	22767 *	20822 *	18158 *	15336 *	11851 *	8686
25.5	33555 *	31980 *	30082 *	27820 *	25596 *	23162 *	20428 *	17244 *	13474 *	9856

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**CANDELA TABULATION - (Cont.)**

22.5	39050 *	36500 *	33816 *	30849 *	28116 *	25218 *	22162 *	18850 *	14754 *	10879 *
19.5	46049 *	42252 *	37955 *	34006 *	30648 *	27218 *	23709 *	20222 *	15905 *	11812 *
17.0	53036 *	48059 *	42219 *	36785 *	32656 *	28853 *	24991 *	21198 *	16734 *	12532 *
15.0	58952 *	52858 *	45872 *	39292 *	34341 *	30055 *	25966 *	21929 *	17374 *	13070 *
13.0	64330 *	57743 *	49963 *	41996 *	35952 *	31227 *	26855 *	22605 *	17985 *	13563 *
11.0	69341 *	62334 *	53799 *	44617 *	37520 *	32300 *	27671 *	23180 *	18527 *	14007 *
9.0	73509 *	66335 *	57404 *	47300 *	39387 *	33260 *	28337 *	23639 *	18986 *	14401 *
7.0	76299 *	69307 *	60110 *	49437 *	40933 *	34082 *	28858 *	24017 *	19363 *	14740 *
5.0	78455 *	71487 *	62050 *	50904 *	41932 *	34743 *	29270 *	24311 *	19659 *	15013 *
3.0	79792 *	72744 *	63164 *	51751 *	42568 *	35177 *	29582 *	24572 *	20001 *	15260 *
1.0	80575 *	73346 *	63610 *	52138 *	42659 *	35437 *	29874 *	24834 *	20114 *	15307 *
0.0	80767 *	73609 *	63612 *	52041 *	42524 *	35490 *	29972 *	24916 *	20170 *	15330 *
-1.0	80217 *	72959 *	63224 *	51834 *	42494 *	35468 *	29989 *	24945 *	20176 *	15325 *
-3.0	78660 *	71537 *	61980 *	50851 *	42101 *	35258 *	29934 *	24902 *	20187 *	15315 *
-5.0	76602 *	69487 *	60067 *	49463 *	41215 *	34747 *	29627 *	24749 *	19950 *	15116 *
-7.0	73907 *	66779 *	57533 *	47582 *	40051 *	34054 *	29189 *	24497 *	19769 *	14974 *
-9.0	69960 *	63089 *	54288 *	45227 *	38600 *	33254 *	28646 *	24175 *	19519 *	14787 *
-11.0	65122 *	58763 *	50620 *	42527 *	37013 *	32388 *	28028 *	23790 *	19204 *	14539 *
-13.0	59923 *	54215 *	47281 *	40473 *	35637 *	31432 *	27354 *	23318 *	18830 *	14232 *
-15.0	54468 *	49286 *	43745 *	38255 *	34184 *	30401 *	26625 *	22756 *	18360 *	13867 *
-17.0	48722 *	45008 *	40501 *	36089 *	32710 *	29378 *	25813 *	22143 *	17771 *	13443 *
-19.5	42837 *	40155 *	37075 *	33854 *	31012 *	28017 *	24720 *	21310 *	17030 *	12853 *
-22.5	37522 *	35791 *	33775 *	31368 *	29002 *	26315 *	23384 *	20125 *	16093 *	12067 *
-25.5	33604 *	32334 *	30853 *	28975 *	26971 *	24573 *	21958 *	18562 *	15031 *	11188 *
-29.0	29905 *	28993 *	27765 *	26228 *	24569 *	22575 *	20087 *	16823 *	13538 *	10094
-33.0	26200 *	25463 *	24461 *	23204 *	21786 *	19904 *	17370 *	14846 *	11753 *	8677
-37.5	22357 *	21806 *	21035 *	19907 *	18401 *	16698 *	14775 *	12375 *	9686	7101
-42.5	17982 *	17455 *	16796 *	15862 *	14752 *	13327 *	11608 *	9633	7448	5253
-47.5	13833 *	13427 *	12833 *	11974 *	11045 *	9947	8586	7094	5260	3574
-55.0	7908	7633	7242	6694	6080	5310	4479	3522	2703	2175
-65.0	2464	2405	2323	2214	2107	1966	1798	1601	1391	1177
-75.0	926	912	891	863	830	788	732	669	593	504
-85.0	175	173	170	165	161	155	147	136	121	105
-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	19	16	11	4	0
75.0	172	115	51	13	0
65.0	462	276	126	22	0
55.0	952	537	231	36	0
47.5	1518	796	319	50	0
42.5	1996	994	391	58	0
37.5	2764	1205	459	66	0
33.0	3709	1402	518	73	0
29.0	4565	1575	574	79	0
25.5	5334	1729	620	83	0
22.5	5942	1857	656	86	0
19.5	6485	1990	689	89	0
17.0	6917	2092	714	92	0
15.0	7234	2166	732	93	0
13.0	7524	2234	748	95	0
11.0	7785	2296	763	99	0
9.0	8016	2344	776	99	0

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

<b>7.0</b>	8214	2384	788	100	0
<b>5.0</b>	8366	2417	803	100	0
<b>3.0</b>	8521	2451	807	100	0
<b>1.0</b>	8561	2462	812	101	0
<b>0.0</b>	8581	2468	814	101	0
<b>-1.0</b>	8599	2474	816	101	0
<b>-3.0</b>	8633	2485	820	102	0
<b>-5.0</b>	8555	2473	824	102	0
<b>-7.0</b>	8480	2461	816	103	0
<b>-9.0</b>	8355	2441	813	103	0
<b>-11.0</b>	8193	2412	808	103	0
<b>-13.0</b>	7996	2375	801	100	0
<b>-15.0</b>	7763	2329	792	99	0
<b>-17.0</b>	7495	2276	781	98	0
<b>-19.5</b>	7113	2200	764	97	0
<b>-22.5</b>	6612	2093	740	95	0
<b>-25.5</b>	6052	1989	711	92	0
<b>-29.0</b>	5315	1854	673	88	0
<b>-33.0</b>	4460	1694	623	84	0
<b>-37.5</b>	3503	1507	570	77	0
<b>-42.5</b>	2672	1313	503	69	0
<b>-47.5</b>	2155	1117	427	60	0
<b>-55.0</b>	1530	827	325	45	0
<b>-65.0</b>	864	476	197	28	0
<b>-75.0</b>	377	216	94	18	0
<b>-85.0</b>	81	50	25	6	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-WF-40-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 46053.92

Total Field Lumens (one side of beam only) = 41632.15

\* 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	0.14	0.20	0.25	0.30	0.35	0.40	0.55
65	2.00	4.01	3.99	3.98	4.00	4.00	3.98	3.94	3.87	4.72
55	10.03	20.03	19.90	19.66	19.35	18.93	18.42	17.83	17.13	20.19
47.5	19.13	38.28	38.08	37.59	36.96	36.09	35.04	33.86	32.51	38.41
42.5	21.25 *	42.40 *	42.08 *	41.57 *	40.95 *	40.08 *	39.02 *	37.79 *	36.38 *	43.17 *
37.5	29.00 *	57.73 *	57.27 *	56.61 *	55.74 *	54.62 *	53.26 *	51.66 *	49.79 *	59.14 *
33	33.46 *	66.63 *	66.13 *	65.23 *	64.02 *	62.56 *	60.85 *	58.85 *	56.59 *	67.22 *
29	36.91 *	73.52 *	72.90 *	71.57 *	69.86 *	67.90 *	65.67 *	63.17 *	60.56 *	71.83 *
25.5	39.89 *	79.48 *	78.73 *	76.93 *	74.48 *	71.55 *	68.54 *	65.52 *	62.34 *	73.34 *
22.5	42.87 *	85.32 *	84.20 *	81.76 *	78.39 *	74.21 *	70.07 *	66.14 *	61.96 *	71.80 *
19.5	53.79 *	106.94 *	105.17 *	101.66 *	96.86 *	90.94 *	84.68 *	78.38 *	71.96 *	81.64 *
17	53.63 *	106.59 *	104.78 *	101.32 *	96.57 *	90.74 *	84.02 *	76.68 *	69.32 *	77.06 *
15	48.41 *	95.98 *	94.25 *	91.32 *	87.28 *	82.25 *	76.26 *	69.46 *	62.34 *	68.34 *
13	52.48 *	103.98 *	102.26 *	99.39 *	95.23 *	89.87 *	83.58 *	76.38 *	68.48 *	74.65 *
11	55.68 *	110.55 *	109.03 *	106.15 *	101.86 *	96.42 *	90.06 *	82.66 *	74.30 *	80.94 *
9	58.53 *	116.32 *	114.77 *	111.70 *	107.31 *	101.92 *	95.58 *	88.11 *	79.50 *	86.74 *
7	60.95 *	121.17 *	119.49 *	116.37 *	111.96 *	106.47 *	100.00 *	92.31 *	83.58 *	91.54 *
5	62.84 *	124.87 *	123.00 *	119.91 *	115.56 *	109.95 *	103.19 *	95.29 *	86.54 *	95.08 *
3	63.94 *	127.07 *	125.25 *	122.23 *	117.82 *	112.06 *	105.15 *	97.28 *	88.57 *	97.43 *
1	64.25 *	127.97 *	126.44 *	123.40 *	118.85 *	113.09 *	106.29 *	98.50 *	89.73 *	98.66 *
0	32.11 *	64.06 *	63.37 *	61.83 *	59.55 *	56.73 *	53.38 *	49.52 *	45.14 *	49.57 *
-1	32.07 *	63.96 *	63.25 *	61.70 *	59.39 *	56.55 *	53.20 *	49.39 *	45.03 *	49.43 *
	63.91 *	127.26 *	125.58 *	122.43 *	117.84 *	112.07 *	105.25 *	97.55 *	88.83 *	97.52 *

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

<b>-3</b>	63.19 *	125.61 *	123.53 *	120.29 *	115.92 *	110.29 *	103.42 *	95.52 *	86.75 *	95.12 *
<b>-5</b>	61.64 *	122.51 *	120.38 *	117.06 *	112.71 *	107.27 *	100.58 *	92.73 *	83.97 *	91.80 *
<b>-7</b>	59.33 *	117.95 *	116.04 *	112.84 *	108.42 *	102.91 *	96.27 *	88.66 *	80.15 *	87.39 *
<b>-9</b>	56.52 *	112.23 *	110.50 *	107.57 *	103.16 *	97.52 *	90.84 *	83.37 *	75.23 *	81.99 *
<b>-11</b>	53.19 *	105.48 *	103.78 *	101.03 *	96.76 *	91.12 *	84.57 *	77.35 *	69.69 *	76.25 *
<b>-13</b>	49.35 *	97.75 *	95.92 *	93.20 *	89.13 *	83.69 *	77.47 *	70.77 *	63.80 *	70.34 *
<b>-15</b>	44.93 *	88.94 *	87.10 *	84.41 *	80.54 *	75.50 *	69.82 *	63.79 *	57.82 *	64.56 *
<b>-17</b>	49.34 *	97.62 *	95.47 *	92.29 *	87.95 *	82.44 *	76.43 *	70.38 *	64.68 *	73.56 *
<b>-19.5</b>	48.78 *	96.98 *	95.16 *	92.22 *	88.28 *	83.28 *	78.13 *	73.33 *	68.65 *	79.62 *
<b>-22.5</b>	39.51 *	79.06 *	78.16 *	76.35 *	73.83 *	70.63 *	67.44 *	64.39 *	61.16 *	72.00 *
<b>-25.5</b>	39.00 *	78.04 *	77.40 *	76.02 *	74.12 *	71.83 *	69.37 *	66.77 *	63.97 *	75.90 *
<b>-29</b>	38.20 *	76.41 *	75.92 *	74.89 *	73.45 *	71.68 *	69.59 *	67.25 *	64.75 *	77.15 *
<b>-33</b>	36.65 *	73.23 *	72.80 *	71.98 *	70.80 *	69.27 *	67.45 *	65.38 *	63.13 *	75.47 *
<b>-37.5</b>	33.94 *	67.81 *	67.32 *	66.41 *	65.27 *	63.87 *	62.24 *	60.36 *	58.27 *	69.69 *
<b>-42.5</b>	27.03 *	53.98 *	53.52 *	52.70 *	51.74 *	50.54 *	49.18 *	47.64 *	45.89 *	54.70 *
<b>-47.5</b>	27.66 *	55.39 *	55.05 *	54.23 *	53.23 *	51.95 *	50.49 *	48.85 *	47.00 *	55.78
<b>-55</b>	17.49	35.13	35.02	34.55	33.92	33.13	32.18	31.09	29.88	35.44
<b>-65</b>	5.58	11.15	11.10	10.97	10.82	10.62	10.39	10.12	9.82	11.81
<b>-75</b>	1.78	3.54	3.53	3.50	3.46	3.41	3.35	3.28	3.20	3.88
<b>-85</b>	0.14	0.27	0.28	0.28	0.27	0.27	0.27	0.26	0.25	0.31
<b>-90</b>										
<b>Total</b>	1690.4	3363.27	3318.01	3237.24	3123.78	2980.5	2815.26	2631.91	2432.91	2751.74

**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	0.05	0.07	0.07	0.04
<b>85</b>	0.73	0.79	0.97	1.14	1.28	1.38	1.24	1.48	1.22	0.50
<b>75</b>	5.46	5.22	5.71	5.94	5.93	5.66	4.66	5.15	3.90	1.48
<b>65</b>	22.37	20.44	21.19	20.47	18.37	15.37	11.51	12.00	8.47	3.04
<b>55</b>	42.54	38.49	39.58	38.03	33.86	27.36	18.46	16.90	10.85	3.67

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

<b>47.5</b>										
	47.99 *	43.49	44.82	43.34	38.97	31.84	21.20	17.78	10.09	3.25
<b>42.5</b>	65.85 *	60.06 *	62.45 *	60.83 *	55.06	45.51	31.09	25.69	13.23	3.97
<b>37.5</b>	75.17 *	68.91 *	71.87 *	70.59 *	64.67 *	53.94	37.26	31.21	15.54	4.20
<b>33</b>	80.20 *	73.33 *	76.55 *	75.42 *	69.49 *	58.52 *	40.67	34.60	17.11	4.23
<b>29</b>	81.12 *	73.55 *	76.58 *	75.44 *	69.69 *	59.10 *	41.33 *	35.56	17.57	4.10
<b>25.5</b>	78.42 *	70.36 *	72.56 *	71.24 *	66.04 *	56.27 *	39.54 *	34.31	16.96	3.79
<b>22.5</b>	87.41 *	77.39 *	79.04 *	76.99 *	71.30 *	61.00 *	43.08 *	37.64	18.57	4.05
<b>19.5</b>	80.49 *	69.96 *	70.71 *	68.38 *	63.04 *	53.99 *	38.34 *	33.71	16.62	3.57
<b>17</b>	70.02 *	59.72 *	59.66 *	57.36 *	52.65 *	45.04 *	32.14 *	28.40	14.00	2.97
<b>15</b>	75.55 *	63.27 *	62.35 *	59.57 *	54.48 *	46.59 *	33.37 *	29.57	14.57	3.06
<b>13</b>	81.20 *	66.82 *	64.92 *	61.64 *	56.13 *	47.99 *	34.50 *	30.64 *	15.09	3.14
<b>11</b>	86.64 *	70.46 *	67.51 *	63.47 *	57.54 *	49.18 *	35.49 *	31.59 *	15.55	3.21
<b>9</b>	91.38 *	73.90 *	69.97 *	65.02 *	58.67 *	50.16 *	36.33 *	32.42 *	15.94	3.27
<b>7</b>	94.90 *	76.47 *	71.88 *	66.28 *	59.57 *	50.94 *	37.02 *	33.10 *	16.26	3.33
<b>5</b>	97.19 *	78.11 *	73.17 *	67.23 *	60.29 *	51.64 *	37.65 *	33.70 *	16.55	3.37
<b>3</b>	98.38 *	78.93 *	73.84 *	67.91 *	60.92 *	52.21 *	38.05 *	34.04 *	16.73	3.40
<b>1</b>	49.35 *	39.52 *	36.99 *	34.14 *	30.66 *	26.25 *	19.09 *	17.07 *	8.39	1.71
<b>0</b>	49.20 *	39.42 *	36.95 *	34.18 *	30.73 *	26.30 *	19.11 *	17.09 *	8.41	1.71
<b>-1</b>	97.20 *	78.17 *	73.60 *	68.21 *	61.42 *	52.61 *	38.22 *	34.20 *	16.88	3.43
<b>-3</b>	94.84 *	76.64 *	72.65 *	67.65 *	61.11 *	52.36 *	37.99 *	34.02 *	16.84	3.43
<b>-5</b>	91.55 *	74.42 *	71.11 *	66.63 *	60.47 *	51.88 *	37.58 *	33.67 *	16.71	3.42
<b>-7</b>	87.28 *	71.56 *	69.16 *	65.34 *	59.60 *	51.30 *	37.17 *	33.29 *	16.53	3.40
<b>-9</b>	82.18 *	68.19 *	66.93 *	63.86 *	58.55 *	50.56 *	36.63 *	32.78 *	16.28	3.37
<b>-11</b>	77.16 *	64.96 *	64.67 *	62.24 *	57.35 *	49.65 *	35.96 *	32.12 *	15.95	3.33
<b>-13</b>	72.40 *	62.00 *	62.38 *	60.47 *	55.99 *	48.56 *	35.15 *	31.34 *	15.56	3.28
<b>-15</b>	67.64 *	58.95 *	60.02 *	58.59 *	54.47 *	47.26 *	34.15 *	30.41 *	15.11	3.21
<b>-17</b>	78.65 *	69.74 *	71.74 *	70.44 *	65.74 *	57.05 *	41.11 *	36.53	18.14	3.92
<b>-19.5</b>	87.06 *	78.41 *	81.27 *	80.22 *	75.16 *	65.22 *	46.87 *	41.42	20.56	4.52

IES FLOOD REPORT  
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LUMENS TABULATION - (Cont.)

<b>-22.5</b>	79.96 *	72.82 *	75.95 *	75.36 *	70.53 *	61.07 *	43.91 *	38.50	19.10	4.32
<b>-25.5</b>	84.96 *	77.97 *	81.83 *	81.49 *	75.82 *	65.27 *	46.96 *	40.82	20.24	4.76
<b>-29</b>	86.72 *	79.96 *	84.19 *	83.47 *	77.36 *	66.44 *	47.44 *	40.79	20.27	5.04
<b>-33</b>	85.04 *	78.22 *	81.87 *	80.76 *	74.74 *	63.85 *	45.08	38.17	19.10	5.14
<b>-37.5</b>	78.48 *	71.92 *	74.84 *	73.63 *	67.70 *	57.07	39.69	33.10	17.10	5.06
<b>-42.5</b>	61.28 *	55.96 *	58.13 *	56.74 *	51.65	42.92	28.98	24.39	13.80	4.37
<b>-47.5</b>	61.97	56.02	57.54	55.45	49.69	40.63	27.68	25.28	16.05	5.26
<b>-55</b>	39.40	35.68	36.64	35.38	31.90	26.88	20.04	20.53	14.06	4.75
<b>-65</b>	13.42	12.55	13.48	13.79	13.43	12.40	9.86	10.44	7.35	2.56
<b>-75</b>	4.46	4.21	4.58	4.76	4.71	4.43	3.56	3.81	2.75	1.00
<b>-85</b>	0.36	0.34	0.37	0.39	0.40	0.37	0.30	0.33	0.25	0.10
<b>-90</b>										
<b>Total</b>	2893.57	2497.29	2502.24	2409.54	2207.15	1884.07	1345.53	1189.66	610.34	146.72

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.01	0.00	0.39	
<b>85</b>				
	0.10	0.00	13.19	
<b>75</b>				
	0.28	0.01	87.89	
<b>65</b>				
	0.55	0.01	335.27	
<b>55</b>				
	0.63	0.01	616.33	
<b>47.5</b>				
	0.54	0.01	688.02	
<b>42.5</b>				
	0.64	0.01	949.22	
<b>37.5</b>				
	0.66	0.01	1095.55	
<b>33</b>				
	0.66	0.01	1184.71	
<b>29</b>				
	0.63	0.01	1225.47	
<b>25.5</b>				
	0.57	0.01	1226.79	
<b>22.5</b>				
	0.60	0.01	1429.1	
<b>19.5</b>				
	0.52	0.01	1360.04	
<b>17</b>				
	0.43	0.01	1198.29	

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-WF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

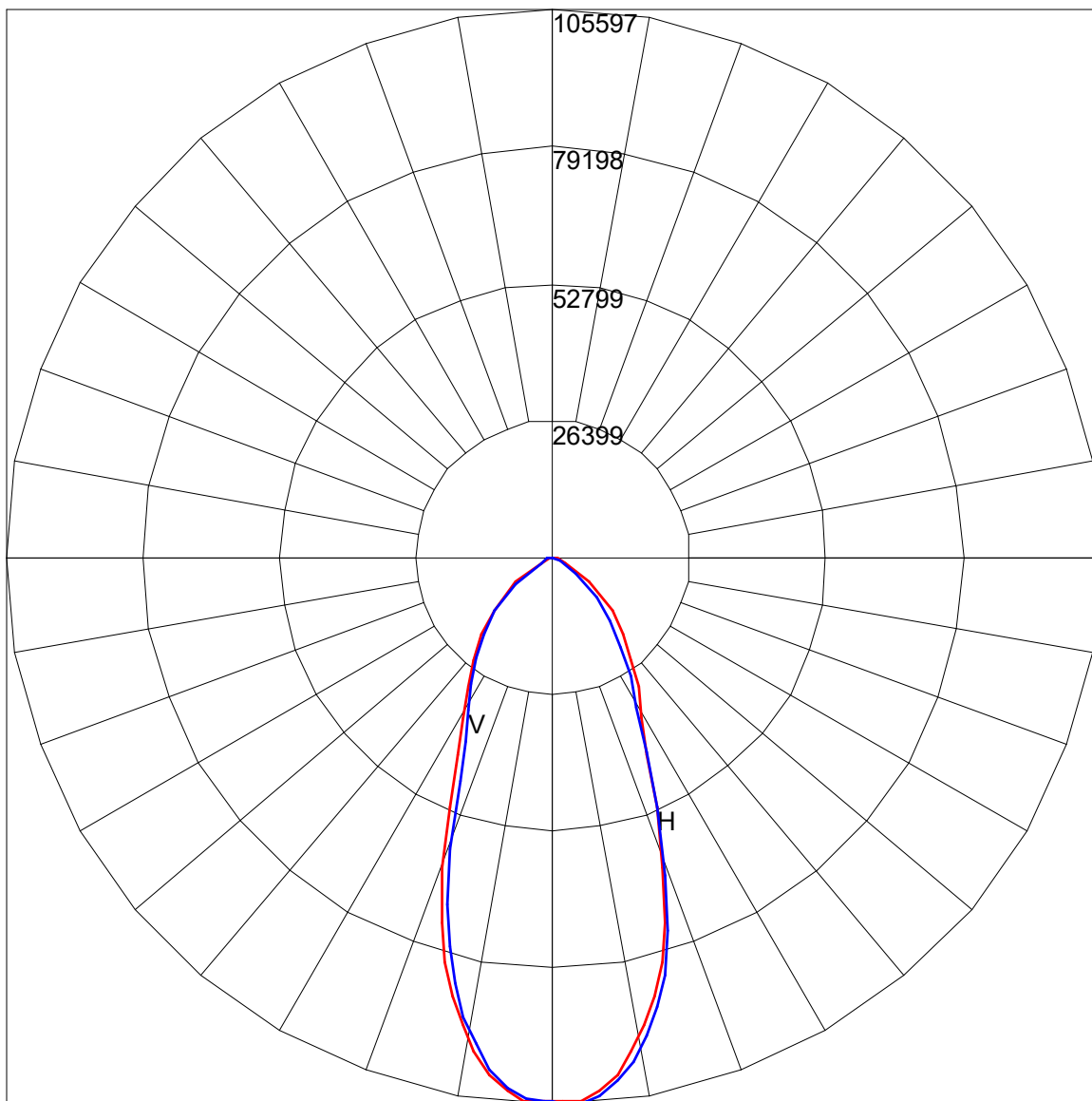
<b>15</b>	0.44	0.01	1289.12
<b>13</b>	0.45	0.01	1370.17
<b>11</b>	0.46	0.01	1441.59
<b>9</b>	0.47	0.01	1501.38
<b>7</b>	0.47	0.01	1546.46
<b>5</b>	0.48	0.01	1576.17
<b>3</b>	0.48	0.01	1592.1
<b>1</b>	0.24	0.00	798.67
<b>0</b>	0.24	0.00	797.32
<b>-1</b>	0.49	0.01	1582.67
<b>-3</b>	0.49	0.01	1557.71
<b>-5</b>	0.49	0.01	1518.57
<b>-7</b>	0.48	0.01	1465.1
<b>-9</b>	0.48	0.01	1398.74
<b>-11</b>	0.48	0.01	1323.1
<b>-13</b>	0.47	0.01	1239.01
<b>-15</b>	0.47	0.01	1147.71
<b>-17</b>	0.57	0.01	1303.78
<b>-19.5</b>	0.67	0.01	1385.82
<b>-22.5</b>	0.65	0.01	1224.72
<b>-25.5</b>	0.72	0.01	1273.28
<b>-29</b>	0.78	0.01	1281.74
<b>-33</b>	0.80	0.01	1238.96
<b>-37.5</b>	0.80	0.01	1134.58
<b>-42.5</b>	0.70	0.01	885.85
<b>-47.5</b>	0.85	0.01	896.07
<b>-55</b>	0.79	0.01	583.87
<b>-65</b>	0.45	0.01	212.11

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-100L-WF-40-GS.IES**

**LUMENS TABULATION - (Cont.)**

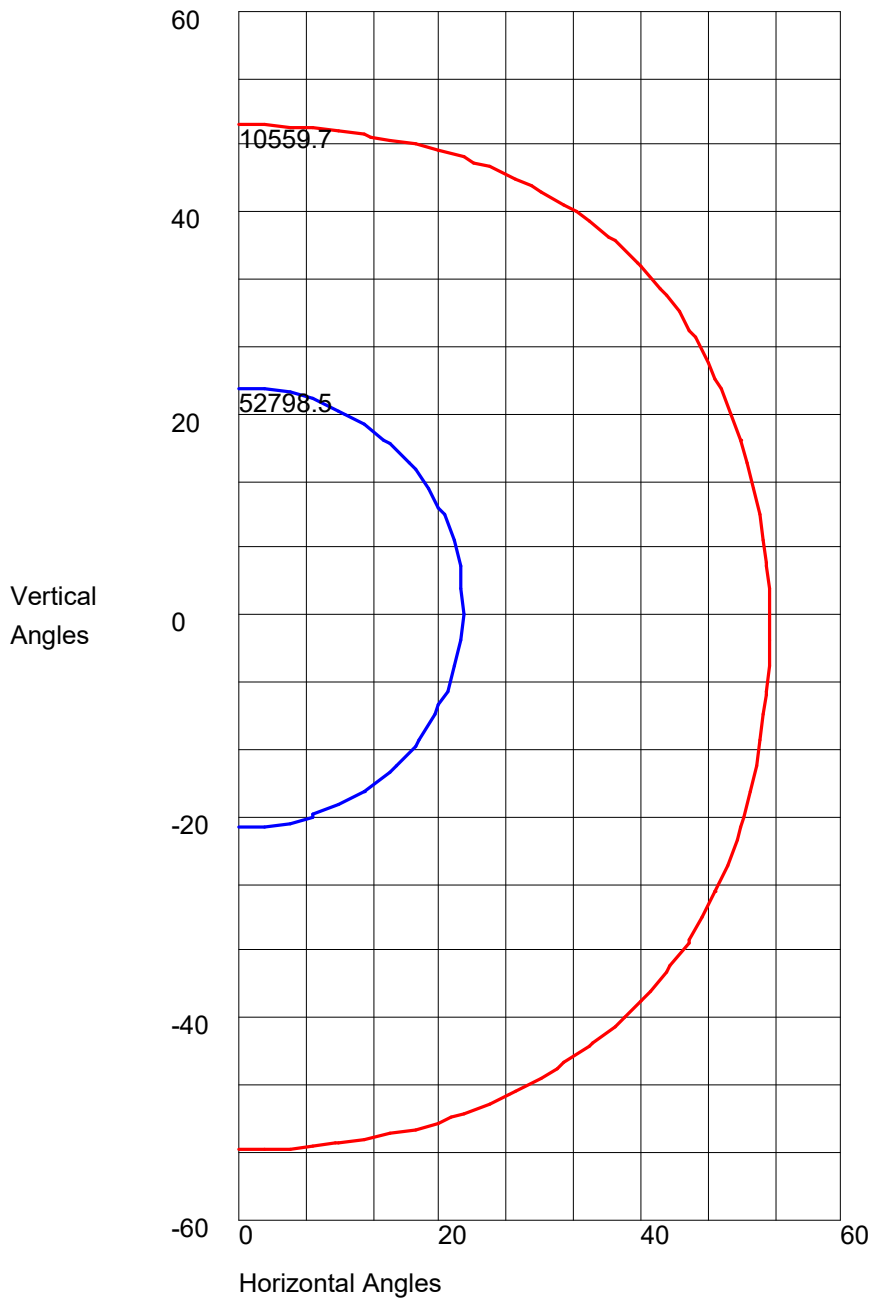
<b>-75</b>	0.19	0.00	71.40
<b>-85</b>	0.02	0.00	5.84
<b>-90</b>			
<b>Total</b>	22.40	0.34	46053.88

AXIAL CANDELA DISPLAY



Maximum Candela = 105597 Located At Horizontal Angle = 0, Vertical Angle = 3  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 105597 Located At Horizontal Angle = 0, Vertical Angle = 3  
50% Maximum Candela = 52798.5  
10% Maximum Candela = 10559.7