



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13167
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 01/04/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-NF-40-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] 4000

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

CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	230334
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	23.5
Vertical Beam Angle (50%)	23.3
Horizontal Field Angle (10%)	51.5
Vertical Field Angle (10%)	50.6
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	22882
Beam Efficiency	N.A.
Field Lumens	46331
Field Efficiency	N.A.
Spill Lumens	19001
Luminaire Lumens	65332
Total Efficiency	N.A.
Total Luminaire Watts	462.3
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	3	90	0
85	59	85	0
75	443	75	0
65	1075	65	204
55	2571	55	1370
47.5	4999	47.5	2843
42.5	7152	42.5	4572
37.5	9414	37.5	6707
33	11841	33	9124
29	15963	29	12555
25.5	23559	25.5	18475
22.5	32870	22.5	27625
19.5	44069	19.5	38611
17	55434	17	50296
15	67541	15	62035
13	90251	13	83748
11	126511	11	119042
9	166669	9	159041
7	201130	7	194800
5	220352	5	217304
3	228134	3	226681
1	229973	1	229551
0	229901	0	229901
-1	229973	-1	230301
-3	228134	-3	229306
-5	220352	-5	222930
-7	201130	-7	205677
-9	166669	-9	174781
-11	126511	-11	135974
-13	90251	-13	97748
-15	67541	-15	71354
-17	55434	-17	58329
-19.5	44069	-19.5	46491
-22.5	32870	-22.5	35206
-25.5	23559	-25.5	25818
-29	15963	-29	17864
-33	11841	-33	12793
-37.5	9414	-37.5	10198
-42.5	7152	-42.5	8165
-47.5	4999	-47.5	5844
-55	2571	-55	3121
-65	1075	-65	1446
-75	443	-75	710
-85	59	-85	162
-90	3	-90	33

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CANDELA TABULATION

Maximum Candela = 230334

Beam Edge = 115167 Cd (50% of Max.)

Field Edge = 23033.4 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	3	3	2	2	2	2	2	2	2	1
85.0	3	5	8	7	7	7	6	4	3	2
75.0	3	10	31	50	59	56	50	41	28	23
65.0	3	15	72	143	210	244	260	268	274	275
55.0	3	23	126	272	423	542	641	741	841	938
47.5	3	31	173	374	606	826	1036	1268	1488	1705
42.5	3	36	209	450	772	1148	1484	1879	2297	2665
37.5	3	40	245	536	984	1558	2061	2711	3387	4046
33.0	3	44	276	618	1203	1954	2687	3647	4587	5481
29.0	3	47	304	690	1403	2364	3338	4581	5771	6843
25.5	3	49	327	755	1597	2733	3973	5444	6776	7879
22.5	3	51	346	806	1753	3098	4521	6162	7603	8911
19.5	3	53	364	858	1904	3432	5084	6850	8360	9917
17.0	3	54	377	898	2035	3709	5519	7383	8991	10761
15.0	3	55	388	928	2131	3946	5837	7774	9465	11444
13.0	3	56	398	955	2221	4162	6119	8125	9894	12212
11.0	3	58	407	981	2303	4356	6368	8440	10338	12926
9.0	3	58	415	1003	2377	4528	6590	8701	10757	13578
7.0	3	58	423	1024	2442	4676	6783	8923	11131	14293
5.0	3	59	432	1041	2491	4800	6947	9104	11452	14995
3.0	3	59	437	1060	2541	4927	7094	9251	11703	15519
1.0	3	59	441	1070	2561	4975	7133	9374	11811	15861
0.0	3	59	443	1075	2571	4999	7152	9414	11841	15963
-1.0	3	59	445	1081	2580	5017	7217	9449	11868	16030
-3.0	3	60	448	1094	2598	5054	7348	9477	11874	15995
-5.0	3	60	452	1098	2585	5011	7348	9477	11856	15744
-7.0	3	61	450	1103	2574	4980	7286	9438	11774	15297
-9.0	3	61	449	1104	2558	4925	7188	9357	11619	14826
-11.0	3	61	448	1102	2533	4842	7056	9232	11373	14341
-13.0	3	60	446	1094	2497	4732	6891	9065	11073	13740
-15.0	3	60	443	1082	2450	4594	6692	8868	10779	13026
-17.0	3	59	439	1068	2392	4427	6463	8620	10436	12412
-19.5	3	59	433	1045	2304	4204	6143	8251	9950	11641
-22.5	3	58	423	1013	2199	3917	5693	7726	9409	10794
-25.5	3	56	411	980	2080	3589	5206	7128	8783	10004
-29.0	3	55	395	931	1920	3256	4584	6347	7933	9184
-33.0	3	52	372	874	1740	2844	3918	5361	6805	7976
-37.5	3	49	343	805	1522	2425	3208	4267	5399	6462
-42.5	3	45	306	728	1312	1990	2552	3254	4002	4744
-47.5	3	40	264	646	1122	1626	2029	2506	2962	3432
-55.0	3	32	208	513	872	1185	1420	1676	1914	2118
-65.0	3	23	132	325	561	741	859	977	1079	1153
-75.0	3	16	67	157	280	371	436	496	545	580
-85.0	3	8	23	43	69	95	109	120	129	136
-90.0	3	4	8	14	19	23	25	27	29	29

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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	1	1	1	1	1	0	0	0
85.0	2	2	1	1	1	1	1	0	0	0
75.0	16	11	9	5	2	1	1	0	0	0
65.0	269	260	260	255	248	241	237	232	225	216
55.0	1019	1097	1171	1220	1256	1289	1312	1331	1346	1357
47.5	1883	2074	2235	2357	2454	2532	2595	2669	2728	2771
42.5	3051	3368	3653	3842	4002	4142	4254	4367	4469	4541
37.5	4624	5060	5453	5727	5923	6141	6325	6476	6602	6679
33.0	6207	6752	7247	7657	7951	8221	8496	8729	8910	9031
29.0	7624	8310	8998	9601	10084	10685	11191	11594	11971	12289
25.5	8918	9855	10942	11915	12986	14041	14898	16110	17201	17940
22.5	10187	11530	13262	15107	16889	18915	20824	22998	24741 *	25944 *
19.5	11656	13744	16611	19857	22714	25740 *	28778 *	31844 *	34290 *	36090 *
17.0	12966	16122	20461	25036 *	28868 *	32836 *	36454 *	40502 *	43963 *	46582 *
15.0	14305	18375	23957 *	29569 *	34426 *	38998 *	43619 *	48123 *	53435 *	57412 *
13.0	15741	20814	27692 *	34397 *	39846 *	45611 *	51684 *	58458 *	65440 *	73755 *
11.0	17101	23134 *	31113 *	38821 *	45376 *	52603 *	60868 *	72399 *	84429 *	97432 *
9.0	18734	25644 *	34638 *	43255 *	50512 *	60490 *	73687 *	88859 *	113503 *	133785 *
7.0	20194	27784 *	37799 *	47293 *	56744 *	68679 *	87259 *	114466 *	144529 *	169559 *
5.0	21516	29814 *	40475 *	50685 *	62211 *	78807 *	102265 *	137938 *	169391 *	196145 *
3.0	22599	31569 *	42687 *	53579 *	65866 *	86581 *	118465 *	156116 *	191328 *	209593 *
1.0	23336 *	32700 *	43917 *	55263 *	67551 *	89780 *	125390 *	164660 *	198707 *	219752 *
0.0	23559 *	32870 *	44069 *	55434 *	67541 *	90251 *	126511 *	166669 *	201130 *	220352 *
-1.0	23574 *	32829 *	43921 *	55492 *	67891 *	92006 *	129323 *	168565 *	201392 *	221158 *
-3.0	23359 *	32362 *	43311 *	54433 *	66537 *	88132 *	121665 *	161211 *	195317 *	213859 *
-5.0	22826	31650 *	42195 *	52362 *	63835 *	81830 *	108080 *	145867 *	178768 *	204750 *
-7.0	21948	30325 *	40389 *	49914 *	59721 *	72586 *	93900 *	124789 *	158627 *	180806 *
-9.0	20753	28453 *	37894 *	46640 *	54199 *	64912 *	80668 *	100892 *	126743 *	149829 *
-11.0	19311	26195 *	34722 *	42723 *	49668 *	57588 *	67677 *	81621 *	96393 *	112381 *
-13.0	18054	23900 *	31383 *	38568 *	44583 *	50817 *	57972 *	65896 *	74312 *	85692 *
-15.0	16488	21359	27819 *	33998 *	39440 *	44802 *	50218 *	55118 *	61136 *	66388 *
-17.0	15005	18910	24398 *	29734 *	34272 *	39109 *	43427 *	47621 *	51220 *	54036 *
-19.5	13660	16393	20246	24561 *	28237 *	32192 *	35732 *	39023 *	41671 *	43809 *
-22.5	12264	14070	16567	19181	21741	24495 *	27132 *	29643 *	31534 *	33034 *
-25.5	11124	12297	13819	15342	16884	18479	19901	21632	23085 *	24227 *
-29.0	10041	10851	11717	12507	13152	14050	14840	15517	16219	16870
-33.0	8863	9541	10120	10609	10972	11297	11655	11989	12263	12474
-37.5	7295	7940	8541	8972	9272	9519	9738	9925	10056	10151
-42.5	5447	5996	6513	6896	7176	7428	7647	7832	7979	8087
-47.5	3834	4220	4567	4840	5055	5246	5411	5544	5652	5732
-55.0	2311	2461	2606	2725	2808	2880	2942	2997	3043	3079
-65.0	1216	1265	1313	1348	1372	1394	1412	1427	1439	1447
-75.0	609	630	645	655	661	671	681	690	698	709
-85.0	142	148	153	158	161	163	167	168	168	168
-90.0	30	31	31	32	32	32	33	33	33	33

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	1	1
85.0	0	0	0	0	0	0	0	0	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	208	204	204	204	208	216	225	232	237	241

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CANDELA TABULATION - (Cont.)

55.0	1373	1371	1370	1371	1373	1357	1346	1331	1312	1289
47.5	2824	2834	2843	2834	2824	2771	2728	2669	2595	2532
42.5	4606	4565	4572	4565	4606	4541	4469	4367	4254	4142
37.5	6708	6691	6707	6691	6708	6679	6602	6476	6325	6141
33.0	9088	9135	9124	9135	9088	9031	8910	8729	8496	8221
29.0	12462	12586	12555	12586	12462	12289	11971	11594	11191	10685
25.5	18297	18547	18475	18547	18297	17940	17201	16110	14898	14041
22.5	26550 *	27000 *	27625 *	27000 *	26550 *	25944 *	24741 *	22998	20824	18915
19.5	37169 *	38108 *	38611 *	38108 *	37169 *	36090 *	34290 *	31844 *	28778 *	25740 *
17.0	48356 *	49564 *	50296 *	49564 *	48356 *	46582 *	43963 *	40502 *	36454 *	32836 *
15.0	60026 *	61505 *	62035 *	61505 *	60026 *	57412 *	53435 *	48123 *	43619 *	38998 *
13.0	79550 *	82548 *	83748 *	82548 *	79550 *	73755 *	65440 *	58458 *	51684 *	45611 *
11.0	110085 *	118592 *	119042 *	118592 *	110085 *	97432 *	84429 *	72399 *	60868 *	52603 *
9.0	148327 *	158879 *	159041 *	158879 *	148327 *	133785 *	113503 *	88859 *	73687 *	60490 *
7.0	187686 *	194623 *	194800 *	194623 *	187686 *	169559 *	144529 *	114466 *	87259 *	68679 *
5.0	208773 *	217304 *	217304 *	217304 *	208773 *	196145 *	169391 *	137938 *	102265 *	78807 *
3.0	221620 *	225627 *	226681 *	225627 *	221620 *	209593 *	191328 *	156116 *	118465 *	86581 *
1.0	227101 *	229605 *	229551 *	229605 *	227101 *	219752 *	198707 *	164660 *	125390 *	89780 *
0.0	228134 *	229973 *	229901 *	229973 *	228134 *	220352 *	201130 *	166669 *	126511 *	90251 *
-1.0	227881 *	230334 *	230301 *	230334 *	227881 *	221158 *	201392 *	168565 *	129323 *	92006 *
-3.0	225112 *	228778 *	229306 *	228778 *	225112 *	213859 *	195317 *	161211 *	121665 *	88132 *
-5.0	215255 *	223645 *	222930 *	223645 *	215255 *	204750 *	178768 *	145867 *	108080 *	81830 *
-7.0	198795 *	206446 *	205677 *	206446 *	198795 *	180806 *	158627 *	124789 *	93900 *	72586 *
-9.0	167161 *	174845 *	174781 *	174845 *	167161 *	149829 *	126743 *	100892 *	80668 *	64912 *
-11.0	129397 *	135351 *	135974 *	135351 *	129397 *	112381 *	96393 *	81621 *	67677 *	57588 *
-13.0	94435 *	97266 *	97748 *	97266 *	94435 *	85692 *	74312 *	65896 *	57972 *	50817 *
-15.0	69934 *	71354 *	71354 *	71354 *	69934 *	66388 *	61136 *	55118 *	50218 *	44802 *
-17.0	56611 *	58116 *	58329 *	58116 *	56611 *	54036 *	51220 *	47621 *	43427 *	39109 *
-19.5	45479 *	46372 *	46491 *	46372 *	45479 *	43809 *	41671 *	39023 *	35732 *	32192 *
-22.5	34165 *	34998 *	35206 *	34998 *	34165 *	33034 *	31534 *	29643 *	27132 *	24495 *
-25.5	25033 *	25615 *	25818 *	25615 *	25033 *	24227 *	23085 *	21632	19901	18479
-29.0	17318	17716	17864	17716	17318	16870	16219	15517	14840	14050
-33.0	12618	12748	12793	12748	12618	12474	12263	11989	11655	11297
-37.5	10210	10215	10198	10215	10210	10151	10056	9925	9738	9519
-42.5	8194	8175	8165	8175	8194	8087	7979	7832	7647	7428
-47.5	5822	5837	5844	5837	5822	5732	5652	5544	5411	5246
-55.0	3117	3120	3121	3120	3117	3079	3043	2997	2942	2880
-65.0	1453	1448	1446	1448	1453	1447	1439	1427	1412	1394
-75.0	709	710	710	710	709	709	698	690	681	671
-85.0	166	163	162	163	166	168	168	168	167	163
-90.0	33	33	33	33	33	33	33	33	33	32

Vert. Angles **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	1	1	1	1	1	1	2	2	2	2
85.0	1	1	1	2	2	2	3	4	6	7
75.0	2	5	9	11	16	23	28	41	50	56
65.0	248	255	260	260	269	275	274	268	260	244
55.0	1256	1220	1171	1097	1019	938	841	741	641	542
47.5	2454	2357	2235	2074	1883	1705	1488	1268	1036	826
42.5	4002	3842	3653	3368	3051	2665	2297	1879	1484	1148
37.5	5923	5727	5453	5060	4624	4046	3387	2711	2061	1558
33.0	7951	7657	7247	6752	6207	5481	4587	3647	2687	1954
29.0	10084	9601	8998	8310	7624	6843	5771	4581	3338	2364
25.5	12986	11915	10942	9855	8918	7879	6776	5444	3973	2733

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CANDELA TABULATION - (Cont.)

22.5	16889	15107	13262	11530	10187	8911	7603	6162	4521	3098
19.5	22714	19857	16611	13744	11656	9917	8360	6850	5084	3432
17.0	28868 *	25036 *	20461	16122	12966	10761	8991	7383	5519	3709
15.0	34426 *	29569 *	23957 *	18375	14305	11444	9465	7774	5837	3946
13.0	39846 *	34397 *	27692 *	20814	15741	12212	9894	8125	6119	4162
11.0	45376 *	38821 *	31113 *	23134 *	17101	12926	10338	8440	6368	4356
9.0	50512 *	43255 *	34638 *	25644 *	18734	13578	10757	8701	6590	4528
7.0	56744 *	47293 *	37799 *	27784 *	20194	14293	11131	8923	6783	4676
5.0	62211 *	50685 *	40475 *	29814 *	21516	14995	11452	9104	6947	4800
3.0	65866 *	53579 *	42687 *	31569 *	22599	15519	11703	9251	7094	4927
1.0	67551 *	55263 *	43917 *	32700 *	23336 *	15861	11811	9374	7133	4975
0.0	67541 *	55434 *	44069 *	32870 *	23559 *	15963	11841	9414	7152	4999
-1.0	67891 *	55492 *	43921 *	32829 *	23574 *	16030	11868	9449	7217	5017
-3.0	66537 *	54433 *	43311 *	32362 *	23359 *	15995	11874	9477	7348	5054
-5.0	63835 *	52362 *	42195 *	31650 *	22826	15744	11856	9477	7348	5011
-7.0	59721 *	49914 *	40389 *	30325 *	21948	15297	11774	9438	7286	4980
-9.0	54199 *	46640 *	37894 *	28453 *	20753	14826	11619	9357	7188	4925
-11.0	49668 *	42723 *	34722 *	26195 *	19311	14341	11373	9232	7056	4842
-13.0	44583 *	38568 *	31383 *	23900 *	18054	13740	11073	9065	6891	4732
-15.0	39440 *	33998 *	27819 *	21359	16488	13026	10779	8868	6692	4594
-17.0	34272 *	29734 *	24398 *	18910	15005	12412	10436	8620	6463	4427
-19.5	28237 *	24561 *	20246	16393	13660	11641	9950	8251	6143	4204
-22.5	21741	19181	16567	14070	12264	10794	9409	7726	5693	3917
-25.5	16884	15342	13819	12297	11124	10004	8783	7128	5206	3589
-29.0	13152	12507	11717	10851	10041	9184	7933	6347	4584	3256
-33.0	10972	10609	10120	9541	8863	7976	6805	5361	3918	2844
-37.5	9272	8972	8541	7940	7295	6462	5399	4267	3208	2425
-42.5	7176	6896	6513	5996	5447	4744	4002	3254	2552	1990
-47.5	5055	4840	4567	4220	3834	3432	2962	2506	2029	1626
-55.0	2808	2725	2606	2461	2311	2118	1914	1676	1420	1185
-65.0	1372	1348	1313	1265	1216	1153	1079	977	859	741
-75.0	661	655	645	630	609	580	545	496	436	371
-85.0	161	158	153	148	142	136	129	120	109	95
-90.0	32	32	31	31	30	29	29	27	25	23

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	2	2	2	3	3
85.0	7	7	8	5	3
75.0	59	50	31	10	3
65.0	210	143	72	15	3
55.0	423	272	126	23	3
47.5	606	374	173	31	3
42.5	772	450	209	36	3
37.5	984	536	245	40	3
33.0	1203	618	276	44	3
29.0	1403	690	304	47	3
25.5	1597	755	327	49	3
22.5	1753	806	346	51	3
19.5	1904	858	364	53	3
17.0	2035	898	377	54	3
15.0	2131	928	388	55	3
13.0	2221	955	398	56	3
11.0	2303	981	407	58	3
9.0	2377	1003	415	58	3

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

CANDELA TABULATION - (Cont.)

7.0	2442	1024	423	58	3
5.0	2491	1041	432	59	3
3.0	2541	1060	437	59	3
1.0	2561	1070	441	59	3
0.0	2571	1075	443	59	3
-1.0	2580	1081	445	59	3
-3.0	2598	1094	448	60	3
-5.0	2585	1098	452	60	3
-7.0	2574	1103	450	61	3
-9.0	2558	1104	449	61	3
-11.0	2533	1102	448	61	3
-13.0	2497	1094	446	60	3
-15.0	2450	1082	443	60	3
-17.0	2392	1068	439	59	3
-19.5	2304	1045	433	59	3
-22.5	2199	1013	423	58	3
-25.5	2080	980	411	56	3
-29.0	1920	931	395	55	3
-33.0	1740	874	372	52	3
-37.5	1522	805	343	49	3
-42.5	1312	728	306	45	3
-47.5	1122	646	264	40	3
-55.0	872	513	208	32	3
-65.0	561	325	132	23	3
-75.0	280	157	67	16	3
-85.0	69	43	23	8	3
-90.0	19	14	8	4	3

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 32666.03

Total Field Lumens (one side of beam only) = 23165.58

* 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	0.01	0.01	0.01	0.03
65	0.31	0.63	0.64	0.67	0.69	0.70	0.72	0.73	0.75	0.96
55	2.40	4.80	4.79	4.76	4.73	4.67	4.59	4.48	4.36	5.25
47.5	4.81	9.59	9.49	9.32	9.13	8.89	8.63	8.35	8.00	9.47
42.5	5.64	11.29	11.20	10.99	10.73	10.41	10.07	9.70	9.26	10.93
37.5	8.58	17.18	17.12	16.88	16.53	16.07	15.54	14.93	14.27	16.88
33	10.85	21.66	21.54	21.28	20.85	20.27	19.56	18.78	17.96	21.22
29	13.22	26.34	26.05	25.57	24.86	24.00	23.00	21.84	20.67	24.23
25.5	16.57	32.97	32.43	31.49	30.02	28.24	26.50	24.72	22.85	26.23
22.5	20.94	41.28	40.44	39.00	36.67	33.67	30.69	27.85	24.99	27.78
19.5	30.01 *	58.83 *	57.32 *	55.01 *	51.52 *	47.00 *	42.13 *	37.35	32.75	35.17
17	33.62 *	65.91 *	63.89 *	60.94 *	56.78 *	51.59 *	46.11 *	40.70 *	35.31 *	37.05
15	34.02 *	66.80 *	64.53 *	61.01 *	56.11 *	50.61 *	45.26 *	39.94 *	34.52 *	35.81 *
13	44.14 *	86.34 *	82.27 *	75.75 *	68.01 *	60.56 *	53.60 *	46.96 *	40.48 *	41.81 *
11	61.52 *	118.96 *	109.64 *	97.26 *	84.68 *	73.02 *	62.80 *	54.22 *	46.39 *	47.74 *
9	84.61 *	163.13 *	148.78 *	130.00 *	108.35 *	88.74 *	73.79 *	61.77 *	52.11 *	53.45 *
7	107.73 *	209.90 *	194.28 *	170.06 *	139.16 *	109.27 *	86.44 *	69.88 *	57.92 *	58.93 *
5	125.50 *	246.09 *	231.59 *	205.88 *	170.82 *	132.57 *	100.41 *	78.75 *	63.52 *	63.73 *
3	135.08 *	265.85 *	254.07 *	232.19 *	197.50 *	154.42 *	115.04 *	86.73 *	68.03 *	67.77 *
1	138.82 *	275.18 *	266.81 *	248.22 *	214.41 *	169.37 *	125.20 *	91.56 *	70.93 *	70.67 *
0	69.98 *	139.24 *	136.03 *	127.22 *	110.27 *	87.48 *	64.35 *	46.57 *	35.98 *	35.92 *
-1	70.10 *	139.47 *	136.36 *	127.84 *	111.27 *	88.65 *	65.26 *	46.95 *	36.07 *	35.96 *
	139.92 *	277.66 *	269.83 *	251.96 *	219.14 *	174.21 *	128.45 *	92.97 *	71.55 *	71.29 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

LUMENS TABULATION - (Cont.)

-3	137.78 *	271.78 *	261.01 *	240.13 *	205.46 *	161.03 *	119.09 *	88.76 *	69.44 *	69.53 *
-5	130.78 *	256.97 *	242.97 *	219.01 *	183.41 *	141.78 *	106.19 *	82.16 *	66.12 *	66.84 *
-7	116.02 *	227.47 *	211.67 *	186.61 *	154.15 *	120.06 *	92.98 *	74.31 *	61.63 *	63.22 *
-9	94.57 *	184.71 *	169.79 *	147.03 *	122.36 *	99.25 *	80.70 *	66.90 *	56.58 *	58.57 *
-11	71.02 *	138.95 *	128.20 *	111.72 *	95.99 *	81.94 *	69.74 *	59.90 *	51.40 *	53.30 *
-13	51.44 *	101.37 *	96.16 *	87.10 *	77.36 *	68.76 *	60.72 *	53.09 *	45.85 *	47.65 *
-15	39.47 *	77.94 *	75.04 *	70.52 *	64.88 *	58.91 *	52.90 *	46.59 *	40.24 *	41.93 *
-17	39.85 *	78.61 *	75.94 *	72.23 *	67.69 *	62.17 *	56.04 *	49.44 *	42.75 *	44.72 *
-19.5	37.25 *	73.52 *	71.33 *	68.18 *	64.19 *	59.18 *	53.43 *	47.29 *	41.16 *	43.69
-22.5	27.79 *	54.71 *	53.08 *	50.84 *	47.91 *	44.23 *	40.23	36.18	32.13	35.21
-25.5	23.19	45.65	44.37	42.62	40.36	37.74	35.07	32.36	29.66	33.78
-29	18.62	36.77	36.03	35.03	33.78	32.40	30.89	29.24	27.66	32.51
-33	15.75	31.36	31.08	30.63	30.02	29.23	28.30	27.30	26.24	31.11
-37.5	13.99	28.00	27.84	27.47	26.99	26.35	25.57	24.68	23.66	27.95
-42.5	10.67	21.33	21.14	20.79	20.37	19.82	19.17	18.40	17.54	20.63
-47.5	10.24	20.43	20.23	19.89	19.50	19.00	18.41	17.72	16.94	19.98
-55	6.96	13.91	13.82	13.64	13.43	13.17	12.85	12.49	12.08	14.45
-65	3.29	6.58	6.56	6.50	6.42	6.31	6.19	6.06	5.91	7.16
-75	1.33	2.66	2.66	2.64	2.60	2.56	2.51	2.45	2.39	2.91
-85	0.15	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.28	0.34
-90										
Total	2008.5	3952.11	3768.29	3456.17	3019.39	2518.62	2059.41	1701.31	1438.35	1513.76

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.02
85	0.05	0.06	0.10	0.15	0.21	0.29	0.32	0.46	0.47	0.25
75	1.15	1.16	1.38	1.57	1.71	1.80	1.64	2.03	1.76	0.77
65	5.95	5.52	5.93	6.08	5.94	5.57	4.54	5.07	3.99	1.59
55	10.52	9.51	9.85	9.73	9.10	8.06	6.15	6.42	4.78	1.84

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	12.08	10.83	11.02	10.64	9.70	8.26	6.05	5.99	4.19	1.57
42.5	18.70	16.80	17.04	16.18	14.37	11.86	8.41	7.97	5.21	1.87
37.5	23.52	21.26	21.70	20.56	18.04	14.57	10.00	9.16	5.72	1.96
33	26.71	24.12	24.79	23.69	20.80	16.62	11.14	9.89	5.95	1.96
29	28.44	25.35	25.92	24.92	22.10	17.69	11.69	10.12	5.92	1.89
25.5	29.17	25.35	25.51	24.41	21.81	17.58	11.57	9.84	5.60	1.74
22.5	35.28	29.50	28.91	27.25	24.32	19.79	13.03	10.92	6.07	1.85
19.5	35.69	28.43	26.83	24.82	22.09	18.11	11.94	9.90	5.41	1.62
17	33.66	25.78	23.44	21.23	18.81	15.46	10.23	8.45	4.56	1.35
15	38.75	28.90	25.45	22.46	19.73	16.24	10.80	8.90	4.74	1.39
13	43.83 *	32.05	27.47	23.69	20.59	16.94	11.31	9.32	4.91	1.43
11	48.85 *	35.32	29.54	24.85	21.40	17.55	11.76	9.69	5.07	1.46
9	53.69 *	38.55 *	31.65	25.98	22.11	18.08	12.15	10.02	5.21	1.49
7	57.95 *	41.45 *	33.64	27.08	22.72	18.52	12.49	10.30	5.32	1.52
5	61.65 *	44.03 *	35.36	28.02	23.23	18.89	12.79	10.55	5.43	1.55
3	64.35 *	46.00 *	36.64	28.66	23.58	19.16	12.99	10.72	5.50	1.56
1	32.75 *	23.47 *	18.65	14.48	11.87	9.64	6.53	5.40	2.77	0.79
0	32.78 *	23.55 *	18.75	14.54	11.91	9.69	6.56	5.42	2.78	0.79
-1	65.01 *	46.80 *	37.41	29.12	23.88	19.53	13.26	10.90	5.59	1.60
-3	63.77 *	45.99 *	36.92	28.96	23.88	19.62	13.33	10.89	5.61	1.61
-5	61.66 *	44.55 *	35.92	28.54	23.81	19.57	13.26	10.82	5.60	1.61
-7	58.46 *	42.35 *	34.51	27.94	23.61	19.40	13.12	10.74	5.58	1.62
-9	54.28 *	39.53 *	32.80	27.23	23.27	19.15	12.93	10.62	5.55	1.61
-11	49.56 *	36.50	31.01	26.38	22.80	18.80	12.66	10.43	5.50	1.61
-13	44.56 *	33.31	29.05	25.38	22.26	18.38	12.33	10.20	5.42	1.59
-15	39.45 *	29.95	26.98	24.36	21.66	17.87	11.94	9.90	5.32	1.58
-17	42.62	33.37	31.23	29.00	26.06	21.49	14.29	11.90	6.47	1.94
-19.5	43.04	35.30	34.37	32.73	29.66	24.33	16.11	13.53	7.49	2.27

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

LUMENS TABULATION - (Cont.)

-22.5	36.31	31.15	31.41	30.54	27.74	22.53	14.86	12.63	7.16	2.21
-25.5	36.34	32.37	33.46	32.81	29.56	23.74	15.67	13.56	7.87	2.47
-29	36.02	32.80	34.18	33.31	29.60	23.57	15.72	13.95	8.31	2.68
-33	34.69	31.59	32.62	31.30	27.49	21.98	15.01	13.71	8.46	2.80
-37.5	30.91	27.84	28.37	26.90	23.67	19.36	13.69	12.95	8.30	2.84
-42.5	22.71	20.34	20.68	19.76	17.80	15.08	11.03	10.81	7.24	2.53
-47.5	22.16	20.07	20.78	20.41	19.01	16.69	12.64	12.87	8.99	3.18
-55	16.30	15.14	16.11	16.35	15.80	14.38	11.32	12.00	8.64	3.06
-65	8.22	7.76	8.43	8.76	8.66	8.07	6.48	6.98	5.03	1.77
-75	3.36	3.19	3.48	3.63	3.61	3.39	2.72	2.91	2.09	0.75
-85	0.39	0.37	0.40	0.42	0.43	0.41	0.34	0.37	0.28	0.11
-90										
Total	1465.34	1147.27	1039.71	924.83	810.42	667.78	456.84	399.24	231.86	73.74

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00	0.21	
85				
	0.07	0.00	2.50	
75				
	0.17	0.01	21.94	
65				
	0.31	0.01	95.33	
55				
	0.35	0.01	162.01	
47.5				
	0.30	0.01	180.85	
42.5				
	0.35	0.01	272.75	
37.5				
	0.36	0.01	340.84	
33				
	0.35	0.01	395.81	
29				
	0.34	0.01	446.41	
25.5				
	0.31	0.01	496.22	
22.5				
	0.32	0.01	644.31	
19.5				
	0.28	0.00	677.00	
17				
	0.23	0.00	651.82	

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

LUMENS TABULATION - (Cont.)

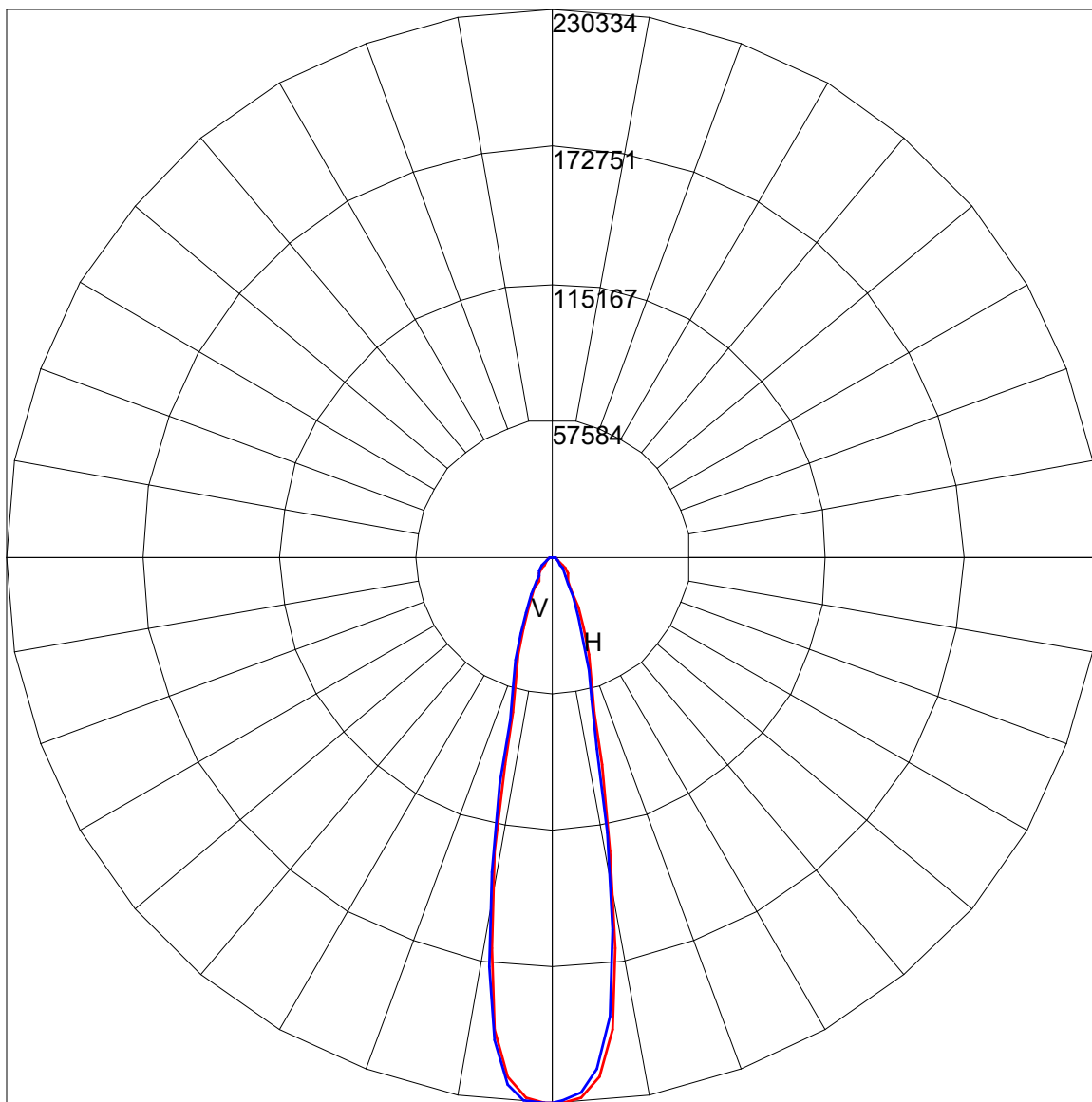
15	0.24	0.00	777.50
13	0.24	0.00	948.00
11	0.25	0.00	1170.45
9	0.25	0.00	1422.74
7	0.26	0.00	1650.12
5	0.26	0.00	1818.45
3	0.26	0.00	1920.59
1	0.13	0.00	979.53
0	0.13	0.00	984.83
-1	0.27	0.00	1950.35
-3	0.27	0.00	1874.91
-5	0.27	0.00	1741.85
-7	0.27	0.00	1545.73
-9	0.27	0.00	1307.69
-11	0.27	0.00	1077.68
-13	0.27	0.00	892.24
-15	0.26	0.00	757.68
-17	0.33	0.01	808.14
-19.5	0.39	0.01	798.46
-22.5	0.38	0.01	639.20
-25.5	0.42	0.01	593.09
-29	0.46	0.01	543.54
-33	0.48	0.01	501.16
-37.5	0.49	0.01	447.84
-42.5	0.43	0.01	338.28
-47.5	0.54	0.01	339.69
-55	0.52	0.01	256.43
-65	0.31	0.01	131.46

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-NF-40-GS.IES

LUMENS TABULATION - (Cont.)

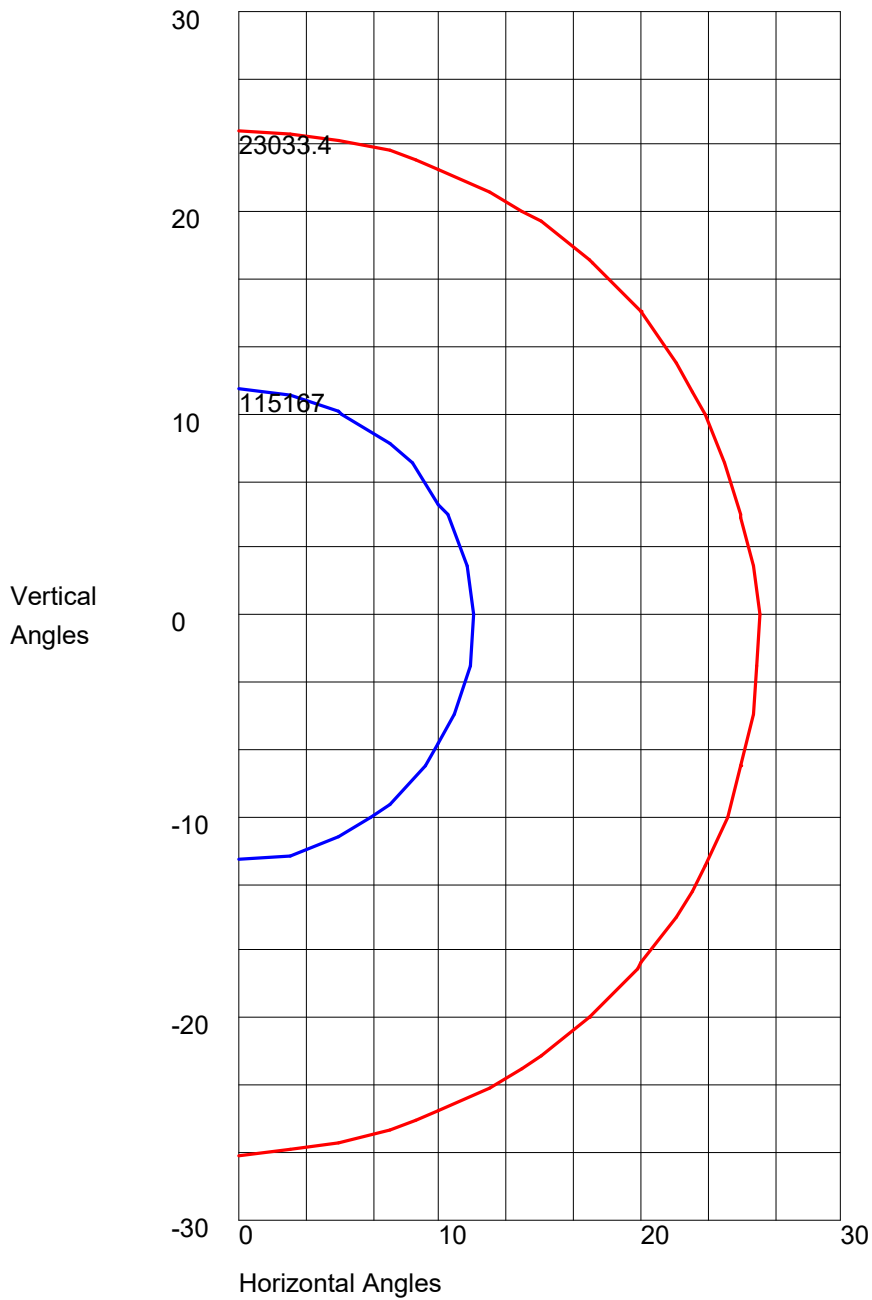
-75	0.15	0.00	53.99
-85	0.03	0.00	6.40
-90			
Total	12.86	0.23	32666.02

AXIAL CANDELA DISPLAY



Maximum Candela = 230334 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 230334 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 115167
10% Maximum Candela = 23033.4