



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13168
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 01/05/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-MF-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	167699
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	32.2
Vertical Beam Angle (50%)	31.9
Horizontal Field Angle (10%)	59.9
Vertical Field Angle (10%)	58.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	31426
Beam Efficiency	N.A.
Field Lumens	53238
Field Efficiency	N.A.
Spill Lumens	12394
Luminaire Lumens	65631
Total Efficiency	N.A.
Total Luminaire Watts	462.3
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	2	90	0
85	42	85	0
75	283	75	0
65	745	65	126
55	1883	55	964
47.5	3182	47.5	1742
42.5	4739	42.5	3054
37.5	7958	37.5	5542
33	12288	33	9348
29	18008	29	14127
25.5	27386	25.5	21669
22.5	38915	22.5	32114
19.5	55749	19.5	47457
17	75233	17	67598
15	95406	15	87924
13	115260	13	109610
11	131922	11	128157
9	145156	9	142811
7	155324	7	153778
5	163388	5	162216
3	166482	3	165967
1	167226	1	167086
0	167206	0	167206
-1	167226	-1	167554
-3	166482	-3	167655
-5	163388	-5	165967
-7	155324	-7	158278
-9	145156	-9	148465
-11	131922	-11	135954
-13	115260	-13	120303
-15	95406	-15	101208
-17	75233	-17	80736
-19.5	55749	-19.5	59966
-22.5	38915	-22.5	42643
-25.5	27386	-25.5	30427
-29	18008	-29	19752
-33	12288	-33	13506
-37.5	7958	-37.5	8842
-42.5	4739	-42.5	5503
-47.5	3182	-47.5	3759
-55	1883	-55	2349
-65	745	-65	1038
-75	283	-75	469
-85	42	-85	123
-90	2	-90	27

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CANDELA TABULATION

Maximum Candela = 167699

Beam Edge = 83849.5 Cd (50% of Max.)

Field Edge = 16769.9 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	2	2	2	2	2	2	2	1	1	1
85.0	2	4	6	5	5	5	4	3	2	2
75.0	2	8	22	32	36	34	31	26	18	15
65.0	2	11	49	94	135	154	162	166	169	172
55.0	2	17	85	176	274	361	433	506	577	648
47.5	2	22	115	242	406	564	706	907	989	1139
42.5	2	26	137	293	519	784	1032	1239	1531	1759
37.5	2	29	158	351	673	1109	1367	1819	2200	2566
33.0	2	31	177	410	834	1306	1831	2383	2911	3600
29.0	2	33	194	463	983	1602	2258	2925	3802	4979
25.5	2	35	208	510	1133	1891	2620	3483	4800	6418
22.5	2	36	219	548	1252	2126	2912	4033	5803	7924
19.5	2	38	230	587	1360	2327	3223	4711	6861	9575
17.0	2	38	239	617	1446	2479	3475	5273	7866	11032
15.0	2	39	245	639	1514	2609	3712	5683	8643	12142
13.0	2	40	252	659	1581	2725	3938	6160	9347	13195
11.0	2	41	258	678	1645	2830	4134	6586	10056	14194
9.0	2	41	264	694	1707	2922	4307	6943	10717	15121
7.0	2	42	269	709	1763	3001	4456	7242	11286	16055
5.0	2	42	275	721	1806	3067	4580	7482	11747	16938 *
3.0	2	42	278	734	1850	3136	4698	7692	12089	17604 *
1.0	2	42	281	741	1872	3167	4725	7894	12250	17939 *
0.0	2	42	283	745	1883	3182	4739	7958	12288	18008 *
-1.0	2	42	284	750	1890	3190	4782	7991	12333	18149 *
-3.0	2	42	287	760	1905	3207	4868	7983	12337	18205 *
-5.0	2	43	289	763	1896	3185	4850	7917	12245	17817 *
-7.0	2	43	288	767	1889	3182	4797	7781	12034	17179 *
-9.0	2	43	288	767	1867	3171	4712	7575	11697	16474
-11.0	2	44	287	765	1839	3143	4596	7299	11200	15735
-13.0	2	42	286	758	1805	3100	4450	6950	10588	14861
-15.0	2	42	285	749	1767	3041	4273	6542	9960	13862
-17.0	2	42	283	738	1723	2965	4091	6209	9256	12866
-19.5	2	41	279	721	1663	2871	3916	5733	8346	11569
-22.5	2	41	274	696	1585	2745	3673	5123	7338	10038
-25.5	2	40	267	671	1495	2592	3442	4588	6339	8466
-29.0	2	38	257	637	1376	2333	3164	4050	5260	6854
-33.0	2	37	244	596	1243	2013	2815	3548	4319	5329
-37.5	2	35	228	543	1081	1755	2307	3022	3565	4146
-42.5	2	32	206	483	922	1458	1861	2359	2901	3283
-47.5	2	28	182	427	780	1158	1488	1851	2136	2500
-55.0	2	23	145	344	586	826	1007	1207	1398	1587
-65.0	2	16	95	223	375	491	575	665	746	806
-75.0	2	11	50	114	193	255	296	335	366	391
-85.0	2	6	18	35	54	72	83	92	99	104
-90.0	2	3	6	11	15	18	20	22	24	24

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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	1	1	1	1	1	1	1	0	0	0
75.0	10	7	5	3	1	1	1	0	0	0
65.0	169	165	166	163	159	154	150	145	139	132
55.0	713	769	811	829	844	858	877	900	922	943
47.5	1274	1390	1479	1541	1587	1621	1645	1673	1690	1696
42.5	1957	2130	2304	2421	2546	2667	2767	2863	2948	3012
37.5	2960	3358	3791	4121	4355	4648	4898	5108	5302	5444
33.0	4420	5188	5934	6623	7160	7651	8124	8527	8866	9123
29.0	6237	7448	8685	9751	10534	11351	12056	12629	13181	13684
25.5	8208	9909	11647	13062	14464	15814	16924 *	18464 *	19768 *	20765 *
22.5	10219	12339	14754	17203 *	19567 *	22062 *	24277 *	26847 *	28949 *	30547 *
19.5	12381	15240	19034 *	23310 *	26934 *	30734 *	34397 *	38512 *	41892 *	44371 *
17.0	14190	18245 *	24050 *	29639 *	34267 *	39761 *	44766 *	51243 *	56868 *	60895 *
15.0	15941	21178 *	28509 *	35214 *	41537 *	48114 *	55962 *	63331 *	72757 *	79594 *
13.0	17745 *	24312 *	33078 *	41815 *	49325 *	59214 *	69463 *	80781 *	91154 *	99405 *
11.0	19497 *	27212 *	37370 *	47877 *	58691 *	70929 *	85155 *	98351 *	110436 *	118436 *
9.0	21674 *	30472 *	42184 *	55108 *	67248 *	83727 *	99513 *	114380 *	125881 *	134466 *
7.0	23614 *	33295 *	46283 *	61423 *	77411 *	95135 *	112213 *	126272 *	138033 *	145632 *
5.0	25196 *	35817 *	49597 *	66261 *	85412 *	104270 *	121548 *	135705 *	145768 *	153692 *
3.0	26412 *	37930 *	53190 *	71320 *	91361 *	110818 *	127761 *	141622 *	151908 *	159136 *
1.0	27177 *	39002 *	55398 *	74659 *	94998 *	114455 *	131167 *	144493 *	154844 *	163462 *
0.0	27386 *	38915 *	55749 *	75233 *	95406 *	115260 *	131922 *	145156 *	155324 *	163388 *
-1.0	27559 *	39115 *	55334 *	74624 *	95682 *	115926 *	132792 *	145828 *	155936 *	164165 *
-3.0	27465 *	38678 *	54034 *	73012 *	93457 *	113120 *	129784 *	143613 *	153882 *	161337 *
-5.0	26696 *	37560 *	51803 *	70157 *	89185 *	108154 *	125610 *	139593 *	149622 *	157525 *
-7.0	25490 *	35899 *	49562 *	65897 *	82529 *	100729 *	117670 *	131722 *	143131 *	149830 *
-9.0	23963 *	33827 *	46451 *	60189 *	73531 *	90680 *	106575 *	121751 *	132247 *	140447 *
-11.0	22094 *	31153 *	41997 *	53380 *	65467 *	78479 *	93189 *	107347 *	119182 *	127571 *
-13.0	20465 *	28116 *	37574 *	47398 *	56182 *	66950 *	79034 *	92149 *	102846 *	110798 *
-15.0	18513 *	24844 *	33042 *	40964 *	48528 *	56489 *	66421 *	75335 *	85005 *	91906 *
-17.0	16643	21773 *	28805 *	35647 *	41410 *	48224 *	54576 *	61939 *	68327 *	72888 *
-19.5	14837	18552 *	23691 *	29113 *	33710 *	38698 *	43354 *	48150 *	51879 *	54686 *
-22.5	12679	15375	18775 *	22251 *	25484 *	28791 *	31842 *	35230 *	37935 *	39944 *
-25.5	10656	12701	15013	17045 *	19087 *	21198 *	23087 *	25297 *	27235 *	28658 *
-29.0	8530	10098	11767	13118	14154	15329	16395	17358 *	18353 *	19174 *
-33.0	6415	7456	8535	9564	10364	11079	11720	12280	12736	13078
-37.5	4741	5317	5976	6503	6895	7380	7813	8187	8474	8697
-42.5	3621	3899	4199	4424	4650	4874	5071	5221	5330	5407
-47.5	2828	3027	3209	3325	3406	3477	3539	3607	3663	3707
-55.0	1707	1793	1883	1976	2044	2107	2165	2216	2259	2293
-65.0	857	893	931	961	982	1000	1014	1025	1034	1041
-75.0	413	428	437	443	447	451	456	459	462	467
-85.0	109	113	117	120	123	123	126	125	125	124
-90.0	25	25	26	26	26	27	27	27	28	28

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	130	127	126	127	130	132	139	145	150	154

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CANDELA TABULATION - (Cont.)

55.0	967	968	964	968	967	943	922	900	877	858
47.5	1719	1738	1742	1738	1719	1696	1690	1673	1645	1621
42.5	3074	3048	3054	3048	3074	3012	2948	2863	2767	2667
37.5	5531	5526	5542	5526	5531	5444	5302	5108	4898	4648
33.0	9281	9299	9348	9299	9281	9123	8866	8527	8124	7651
29.0	13994	14090	14127	14090	13994	13684	13181	12629	12056	11351
25.5	21408 *	21706 *	21669 *	21706 *	21408 *	20765 *	19768 *	18464 *	16924 *	15814
22.5	31617 *	32308 *	32114 *	32308 *	31617 *	30547 *	28949 *	26847 *	24277 *	22062 *
19.5	46145 *	47719 *	47457 *	47719 *	46145 *	44371 *	41892 *	38512 *	34397 *	30734 *
17.0	63885 *	66163 *	67598 *	66163 *	63885 *	60895 *	56868 *	51243 *	44766 *	39761 *
15.0	84134 *	86811 *	87924 *	86811 *	84134 *	79594 *	72757 *	63331 *	55962 *	48114 *
13.0	105143 *	107988 *	109610 *	107988 *	105143 *	99405 *	91154 *	80781 *	69463 *	59214 *
11.0	123918 *	127147 *	128157 *	127147 *	123918 *	118436 *	110436 *	98351 *	85155 *	70929 *
9.0	139271 *	142190 *	142811 *	142190 *	139271 *	134466 *	125881 *	114380 *	99513 *	83727 *
7.0	150379 *	152992 *	153778 *	152992 *	150379 *	145632 *	138033 *	126272 *	112213 *	95135 *
5.0	158642 *	161716 *	162216 *	161716 *	158642 *	153692 *	145768 *	135705 *	121548 *	104270 *
3.0	163638 *	165271 *	165967 *	165271 *	163638 *	159136 *	151908 *	141622 *	127761 *	110818 *
1.0	166226 *	167036 *	167086 *	167036 *	166226 *	163462 *	154844 *	144493 *	131167 *	114455 *
0.0	166482 *	167226 *	167206 *	167226 *	166482 *	163388 *	155324 *	145156 *	131922 *	115260 *
-1.0	166748 *	167699 *	167554 *	167699 *	166748 *	164165 *	155936 *	145828 *	132792 *	115926 *
-3.0	166197 *	167536 *	167655 *	167536 *	166197 *	161337 *	153882 *	143613 *	129784 *	113120 *
-5.0	161960 *	165893 *	165967 *	165893 *	161960 *	157525 *	149622 *	139593 *	125610 *	108154 *
-7.0	155133 *	158194 *	158278 *	158194 *	155133 *	149830 *	143131 *	131722 *	117670 *	100729 *
-9.0	145972 *	148141 *	148465 *	148141 *	145972 *	140447 *	132247 *	121751 *	106575 *	90680 *
-11.0	133134 *	135318 *	135954 *	135318 *	133134 *	127571 *	119182 *	107347 *	93189 *	78479 *
-13.0	116483 *	119641 *	120303 *	119641 *	116483 *	110798 *	102846 *	92149 *	79034 *	66950 *
-15.0	97137 *	100949 *	101208 *	100949 *	97137 *	91906 *	85005 *	75335 *	66421 *	56489 *
-17.0	77331 *	80297 *	80736 *	80297 *	77331 *	72888 *	68327 *	61939 *	54576 *	48224 *
-19.5	57864 *	59738 *	59966 *	59738 *	57864 *	54686 *	51879 *	48150 *	43354 *	38698 *
-22.5	41323 *	42365 *	42643 *	42365 *	41323 *	39944 *	37935 *	35230 *	31842 *	28791 *
-25.5	29598 *	30227 *	30427 *	30227 *	29598 *	28658 *	27235 *	25297 *	23087 *	21198 *
-29.0	19724 *	19837 *	19752 *	19837 *	19724 *	19174 *	18353 *	17358 *	16395	15329
-33.0	13303	13463	13506	13463	13303	13078	12736	12280	11720	11079
-37.5	8853	8872	8842	8872	8853	8697	8474	8187	7813	7380
-42.5	5492	5499	5503	5499	5492	5407	5330	5221	5071	4874
-47.5	3753	3757	3759	3757	3753	3707	3663	3607	3539	3477
-55.0	2330	2343	2349	2343	2330	2293	2259	2216	2165	2107
-65.0	1045	1040	1038	1040	1045	1041	1034	1025	1014	1000
-75.0	468	469	469	469	468	467	462	459	456	451
-85.0	124	123	123	123	124	124	125	125	126	123
-90.0	28	27	27	27	28	28	28	27	27	27

**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	1	1	2	2
85.0	1	1	1	1	1	2	2	3	4	5
75.0	1	3	5	7	10	15	18	26	31	34
65.0	159	163	166	165	169	172	169	166	162	154
55.0	844	829	811	769	713	648	577	506	433	361
47.5	1587	1541	1479	1390	1274	1139	989	907	706	564
42.5	2546	2421	2304	2130	1957	1759	1531	1239	1032	784
37.5	4355	4121	3791	3358	2960	2566	2200	1819	1367	1109
33.0	7160	6623	5934	5188	4420	3600	2911	2383	1831	1306
29.0	10534	9751	8685	7448	6237	4979	3802	2925	2258	1602
25.5	14464	13062	11647	9909	8208	6418	4800	3483	2620	1891

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	19567 *	17203 *	14754	12339	10219	7924	5803	4033	2912	2126
19.5	26934 *	23310 *	19034 *	15240	12381	9575	6861	4711	3223	2327
17.0	34267 *	29639 *	24050 *	18245 *	14190	11032	7866	5273	3475	2479
15.0	41537 *	35214 *	28509 *	21178 *	15941	12142	8643	5683	3712	2609
13.0	49325 *	41815 *	33078 *	24312 *	17745 *	13195	9347	6160	3938	2725
11.0	58691 *	47877 *	37370 *	27212 *	19497 *	14194	10056	6586	4134	2830
9.0	67248 *	55108 *	42184 *	30472 *	21674 *	15121	10717	6943	4307	2922
7.0	77411 *	61423 *	46283 *	33295 *	23614 *	16055	11286	7242	4456	3001
5.0	85412 *	66261 *	49597 *	35817 *	25196 *	16938 *	11747	7482	4580	3067
3.0	91361 *	71320 *	53190 *	37930 *	26412 *	17604 *	12089	7692	4698	3136
1.0	94998 *	74659 *	55398 *	39002 *	27177 *	17939 *	12250	7894	4725	3167
0.0	95406 *	75233 *	55749 *	38915 *	27386 *	18008 *	12288	7958	4739	3182
-1.0	95682 *	74624 *	55334 *	39115 *	27559 *	18149 *	12333	7991	4782	3190
-3.0	93457 *	73012 *	54034 *	38678 *	27465 *	18205 *	12337	7983	4868	3207
-5.0	89185 *	70157 *	51803 *	37560 *	26696 *	17817 *	12245	7917	4850	3185
-7.0	82529 *	65897 *	49562 *	35899 *	25490 *	17179 *	12034	7781	4797	3182
-9.0	73531 *	60189 *	46451 *	33827 *	23963 *	16474	11697	7575	4712	3171
-11.0	65467 *	53380 *	41997 *	31153 *	22094 *	15735	11200	7299	4596	3143
-13.0	56182 *	47398 *	37574 *	28116 *	20465 *	14861	10588	6950	4450	3100
-15.0	48528 *	40964 *	33042 *	24844 *	18513 *	13862	9960	6542	4273	3041
-17.0	41410 *	35647 *	28805 *	21773 *	16643	12866	9256	6209	4091	2965
-19.5	33710 *	29113 *	23691 *	18552 *	14837	11569	8346	5733	3916	2871
-22.5	25484 *	22251 *	18775 *	15375	12679	10038	7338	5123	3673	2745
-25.5	19087 *	17045 *	15013	12701	10656	8466	6339	4588	3442	2592
-29.0	14154	13118	11767	10098	8530	6854	5260	4050	3164	2333
-33.0	10364	9564	8535	7456	6415	5329	4319	3548	2815	2013
-37.5	6895	6503	5976	5317	4741	4146	3565	3022	2307	1755
-42.5	4650	4424	4199	3899	3621	3283	2901	2359	1861	1458
-47.5	3406	3325	3209	3027	2828	2500	2136	1851	1488	1158
-55.0	2044	1976	1883	1793	1707	1587	1398	1207	1007	826
-65.0	982	961	931	893	857	806	746	665	575	491
-75.0	447	443	437	428	413	391	366	335	296	255
-85.0	123	120	117	113	109	104	99	92	83	72
-90.0	26	26	26	25	25	24	24	22	20	18

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	2	2
85.0	5	5	6	4	2
75.0	36	32	22	8	2
65.0	135	94	49	11	2
55.0	274	176	85	17	2
47.5	406	242	115	22	2
42.5	519	293	137	26	2
37.5	673	351	158	29	2
33.0	834	410	177	31	2
29.0	983	463	194	33	2
25.5	1133	510	208	35	2
22.5	1252	548	219	36	2
19.5	1360	587	230	38	2
17.0	1446	617	239	38	2
15.0	1514	639	245	39	2
13.0	1581	659	252	40	2
11.0	1645	678	258	41	2
9.0	1707	694	264	41	2

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

CANDELA TABULATION - (Cont.)

7.0	1763	709	269	42	2
5.0	1806	721	275	42	2
3.0	1850	734	278	42	2
1.0	1872	741	281	42	2
0.0	1883	745	283	42	2
-1.0	1890	750	284	42	2
-3.0	1905	760	287	42	2
-5.0	1896	763	289	43	2
-7.0	1889	767	288	43	2
-9.0	1867	767	288	43	2
-11.0	1839	765	287	44	2
-13.0	1805	758	286	42	2
-15.0	1767	749	285	42	2
-17.0	1723	738	283	42	2
-19.5	1663	721	279	41	2
-22.5	1585	696	274	41	2
-25.5	1495	671	267	40	2
-29.0	1376	637	257	38	2
-33.0	1243	596	244	37	2
-37.5	1081	543	228	35	2
-42.5	922	483	206	32	2
-47.5	780	427	182	28	2
-55.0	586	344	145	23	2
-65.0	375	223	95	16	2
-75.0	193	114	50	11	2
-85.0	54	35	18	6	2
-90.0	15	11	6	3	2

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 32815.68

Total Field Lumens (one side of beam only) = 26618.82

* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02
65	0.19	0.39	0.40	0.41	0.43	0.44	0.46	0.47	0.48	0.61
55	1.66	3.34	3.30	3.24	3.18	3.11	3.04	2.98	2.92	3.56
47.5	3.09	6.16	6.07	5.97	5.86	5.73	5.59	5.44	5.27	6.32
42.5	3.65	7.29	7.22	7.08	6.92	6.71	6.48	6.22	5.93	7.00
37.5	6.54	13.07	12.96	12.65	12.23	11.73	11.16	10.50	9.84	11.42
33	10.18	20.30	20.09	19.59	18.87	17.99	16.97	15.84	14.66	16.65
29	14.27	28.41	28.00	27.18	26.06	24.80	23.35	21.69	19.95	22.41
25.5	19.08 *	37.93 *	37.14 *	35.73 *	33.81	31.54	29.27	26.98	24.50	27.30
22.5	24.63 *	48.88 *	47.56 *	45.45 *	42.54 *	38.93 *	35.34 *	31.88 *	28.24	30.73
19.5	36.46 *	72.05 *	69.59 *	66.23 *	61.62 *	55.81 *	49.82 *	44.02 *	38.22 *	40.30 *
17	43.58 *	85.20 *	81.77 *	77.26 *	71.08 *	63.34 *	55.74 *	48.65 *	41.78 *	43.41 *
15	46.98 *	91.63 *	87.67 *	81.83 *	73.66 *	64.59 *	56.19 *	48.38 *	41.18 *	42.46 *
13	59.75 *	116.92 *	111.90 *	103.88 *	92.91 *	80.85 *	69.35 *	58.58 *	49.16 *	50.12 *
11	72.02 *	141.31 *	135.80 *	127.06 *	114.84 *	100.12 *	84.84 *	70.39 *	57.89 *	57.91 *
9	82.29 *	162.11 *	156.82 *	148.20 *	135.45 *	119.21 *	101.10 *	82.93 *	67.03 *	66.00 *
7	90.13 *	178.03 *	173.12 *	164.80 *	152.20 *	135.70 *	116.37 *	95.62 *	76.48 *	74.13 *
5	96.06 *	189.87 *	184.85 *	176.65 *	164.63 *	148.71 *	129.06 *	107.06 *	85.06 *	80.84 *
3	99.78 *	197.65 *	192.98 *	184.94 *	173.44 *	157.98 *	138.37 *	115.82 *	92.04 *	86.91 *
1	101.33 *	201.58 *	198.26 *	190.65 *	178.83 *	163.50 *	144.27 *	121.66 *	97.31 *	92.05 *
0	50.91 *	101.52 *	100.21 *	96.49 *	90.46 *	82.90 *	73.41 *	62.08 *	49.82 *	47.19 *
-1	51.00 *	101.70 *	100.39 *	96.76 *	90.83 *	83.35 *	73.88 *	62.40 *	49.91 *	47.18 *
	102.11 *	203.40 *	200.08 *	192.46 *	180.76 *	165.59 *	146.48 *	123.60 *	98.61 *	92.93 *

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

LUMENS TABULATION - (Cont.)

-3	101.59 *	201.40 *	196.60 *	188.54 *	176.97 *	161.57 *	142.02 *	119.38 *	95.40 *	90.04 *
-5	98.74 *	195.19 *	189.74 *	181.79 *	170.14 *	154.37 *	134.72 *	112.49 *	90.12 *	85.85 *
-7	93.37 *	184.91 *	179.70 *	171.36 *	159.52 *	143.30 *	123.84 *	102.70 *	82.61 *	80.31 *
-9	86.49 *	171.25 *	166.25 *	157.36 *	144.95 *	128.65 *	109.92 *	91.08 *	73.95 *	73.05 *
-11	77.86 *	153.60 *	148.28 *	139.47 *	127.15 *	111.51 *	94.64 *	78.94 *	65.13 *	65.21 *
-13	67.33 *	132.18 *	126.50 *	118.31 *	107.18 *	93.87 *	80.12 *	67.43 *	56.53 *	57.48 *
-15	55.31 *	108.29 *	103.09 *	96.37 *	87.66 *	77.47 *	67.25 *	57.53 *	48.77 *	50.07 *
-17	53.45 *	104.73 *	99.81 *	93.83 *	86.83 *	78.00 *	68.84 *	59.87 *	51.20 *	53.00 *
-19.5	46.77 *	91.91 *	88.34 *	83.81 *	78.36 *	71.35 *	63.77 *	56.16 *	48.56 *	50.89 *
-22.5	33.28 *	65.53 *	63.59 *	60.79 *	56.87 *	51.95 *	46.89 *	41.92 *	36.83 *	39.64 *
-25.5	26.72 *	52.95 *	51.66 *	49.53 *	46.58 *	43.12 *	39.63 *	36.09 *	32.49	36.03
-29	20.27	40.38	39.67	38.38	36.64	34.65	32.49	30.10	27.64	31.09
-33	15.31	30.47	30.03	29.30	28.29	27.00	25.47	23.75	21.96	24.88
-37.5	10.93	21.85	21.61	21.14	20.52	19.72	18.72	17.58	16.45	19.08
-42.5	7.05	14.08	13.95	13.71	13.44	13.08	12.63	12.12	11.57	13.70
-47.5	6.97	13.91	13.77	13.54	13.29	12.97	12.61	12.23	11.80	14.09
-55	5.16	10.29	10.19	10.04	9.85	9.63	9.36	9.06	8.73	10.40
-65	2.30	4.60	4.59	4.55	4.49	4.43	4.35	4.26	4.15	5.01
-75	0.90	1.80	1.80	1.78	1.77	1.75	1.72	1.69	1.66	2.02
-85	0.11	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.26
-90										
Total	1825.63	3608.29	3505.59	3338.3	3101.34	2801.23	2459.78	2097.78	1742.04	1749.55

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.02
85	0.03	0.04	0.07	0.10	0.14	0.19	0.20	0.29	0.30	0.17
75	0.73	0.73	0.87	0.98	1.06	1.12	1.03	1.28	1.13	0.51
65	4.08	3.79	4.03	4.09	3.97	3.69	2.99	3.30	2.58	1.05
55	7.12	6.49	6.71	6.56	6.25	5.58	4.17	4.30	3.13	1.21

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5	7.79	7.04	7.26	7.07	6.53	5.66	4.15	4.06	2.78	1.02
42.5	12.35	10.86	10.95	10.52	9.50	7.96	5.78	5.51	3.49	1.22
37.5	17.53	14.96	14.44	13.25	11.73	9.71	6.80	6.31	3.88	1.28
33	23.25	19.44	18.23	15.97	13.45	10.96	7.53	6.75	4.09	1.29
29	28.13	23.23	21.43	18.27	14.70	11.52	7.89	7.01	4.11	1.25
25.5	31.13	25.47	23.29	19.54	15.21	11.41	7.71	6.86	3.93	1.16
22.5	39.26	31.42	28.50	23.62	17.97	13.02	8.55	7.57	4.27	1.24
19.5	40.82 *	31.33	27.94	23.06	17.28	12.16	7.74	6.80	3.81	1.09
17	39.23 *	29.03 *	25.26	20.72	15.37	10.58	6.61	5.75	3.21	0.91
15	45.67 *	33.05 *	27.97	22.62	16.69	11.37	6.99	6.02	3.34	0.93
13	52.02 *	37.05 *	30.63	24.43	17.99	12.14	7.34	6.27	3.47	0.96
11	58.54 *	41.26 *	33.40 *	26.15	19.19	12.81	7.64	6.50	3.59	0.99
9	64.93 *	45.52 *	36.23 *	27.77	20.25	13.38	7.91	6.71	3.71	1.01
7	70.37 *	49.22 *	38.76 *	29.25	21.13	13.86	8.13	6.89	3.80	1.03
5	75.30 *	52.32 *	40.82 *	30.48	21.83	14.26	8.33	7.04	3.89	1.04
3	79.13 *	54.48 *	42.23 *	31.27	22.34	14.59	8.47	7.16	3.95	1.06
1	40.32 *	27.65 *	21.44 *	15.79	11.30	7.38	4.26	3.61	1.99	0.53
0	40.33 *	27.75 *	21.58 *	15.87	11.35	7.43	4.28	3.62	2.00	0.54
-1	79.83 *	55.43 *	43.30 *	31.86	22.74	14.94	8.64	7.28	4.03	1.08
-3	77.66 *	54.43 *	42.73 *	31.64	22.65	14.94	8.67	7.28	4.05	1.09
-5	74.57 *	52.44 *	41.31 *	30.95	22.37	14.78	8.62	7.25	4.04	1.10
-7	70.69 *	49.74 *	39.38 *	29.96	21.87	14.50	8.54	7.22	4.02	1.10
-9	65.44 *	46.34 *	37.09 *	28.77	21.14	14.10	8.41	7.16	3.98	1.10
-11	59.22 *	42.50 *	34.66 *	27.35	20.17	13.59	8.23	7.06	3.93	1.09
-13	52.71 *	38.37 *	32.08 *	25.72	19.05	12.96	8.00	6.94	3.86	1.08
-15	46.26 *	34.13 *	29.32	23.99	17.89	12.31	7.74	6.78	3.79	1.07
-17	49.49 *	37.46 *	33.12	27.43	20.67	14.54	9.31	8.24	4.61	1.31
-19.5	48.88 *	38.47	34.91	29.21	22.28	16.14	10.66	9.50	5.32	1.54

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	39.58	32.19	29.74	25.20	19.63	14.72	10.05	9.02	5.07	1.49
-25.5	37.01	30.67	28.61	24.60	19.82	15.56	10.86	9.75	5.56	1.67
-29	32.29	27.13	25.71	22.72	19.22	15.84	11.12	9.95	5.86	1.80
-33	26.18	22.47	22.00	20.39	18.20	15.34	10.77	9.79	5.93	1.89
-37.5	20.68	18.34	18.71	18.14	16.57	13.92	9.93	9.32	5.76	1.90
-42.5	15.28	13.96	14.49	14.12	12.94	11.02	8.03	7.71	4.97	1.69
-47.5	15.85	14.64	15.32	14.92	13.83	12.14	9.04	8.98	6.10	2.14
-55	11.73	10.96	11.74	11.84	11.24	10.07	7.80	8.14	5.81	2.10
-65	5.73	5.41	5.84	6.03	5.91	5.46	4.35	4.69	3.44	1.25
-75	2.34	2.22	2.41	2.51	2.50	2.35	1.90	2.05	1.51	0.56
-85	0.30	0.28	0.31	0.33	0.33	0.32	0.26	0.28	0.22	0.09
-90										
Total	1609.8	1199.69	1024.84	835.06	646.24	470.33	305.43	274.07	162.35	49.65

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.01	0.00	0.16
85			
	0.05	0.00	1.60
75			
	0.12	0.00	13.84
65			
	0.21	0.01	64.10
55			
	0.24	0.01	107.25
47.5			
	0.20	0.00	118.06
42.5			
	0.23	0.00	190.47
37.5			
	0.23	0.00	271.27
33			
	0.23	0.00	357.34
29			
	0.22	0.00	441.04
25.5			
	0.20	0.00	520.08
22.5			
	0.21	0.00	709.75
19.5			
	0.18	0.00	784.04
17			
	0.15	0.00	791.37

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

LUMENS TABULATION - (Cont.)

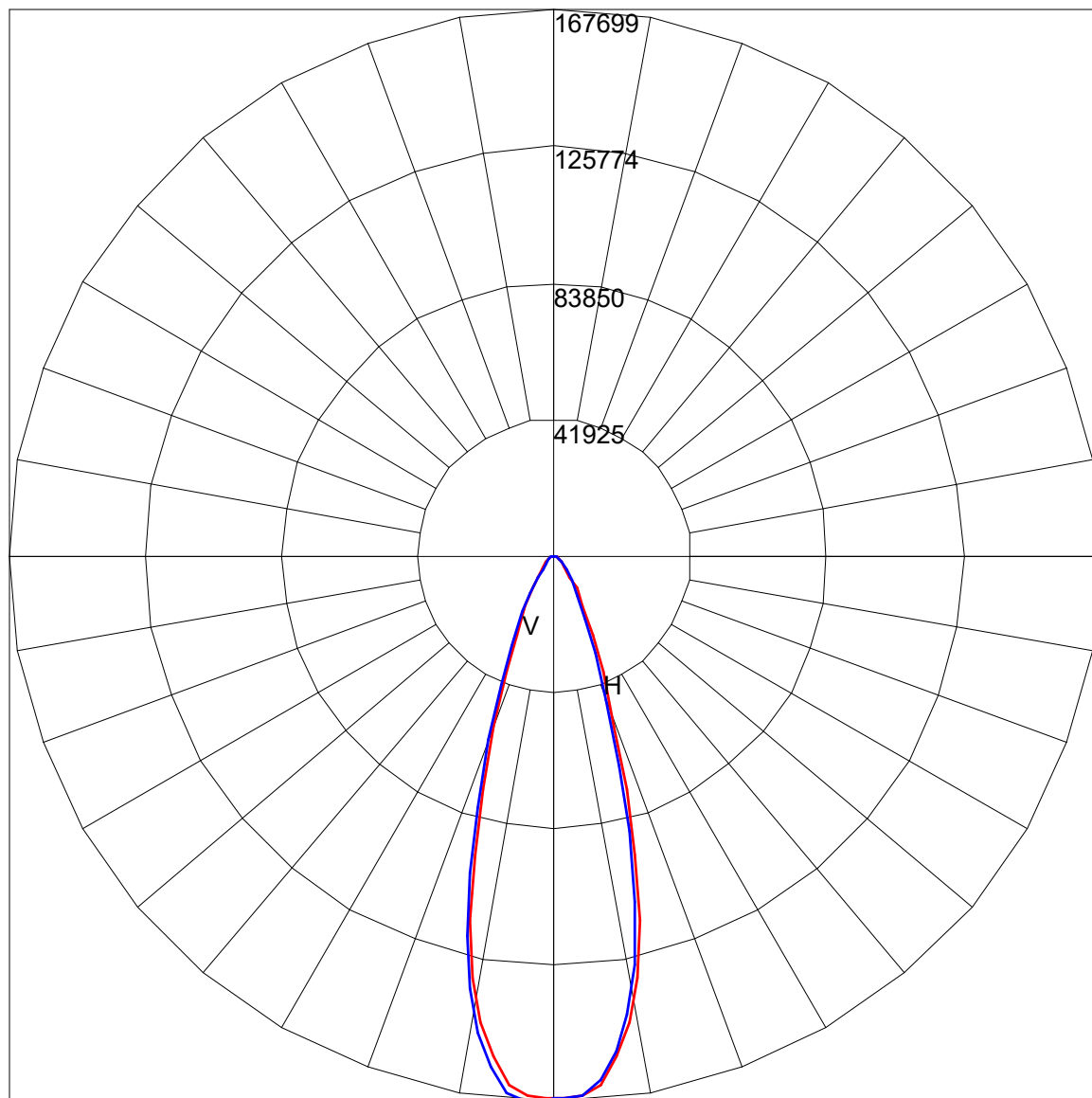
15	0.15	0.00	968.24
13	0.16	0.00	1154.63
11	0.16	0.00	1331.38
9	0.16	0.00	1484.15
7	0.17	0.00	1605.39
5	0.17	0.00	1695.4
3	0.17	0.00	1754.28
1	0.09	0.00	889.37
0	0.09	0.00	892.23
-1	0.17	0.00	1775.34
-3	0.17	0.00	1738.83
-5	0.18	0.00	1670.75
-7	0.17	0.00	1568.83
-9	0.17	0.00	1436.65
-11	0.17	0.00	1279.76
-13	0.17	0.00	1107.9
-15	0.17	0.00	935.26
-17	0.21	0.00	955.95
-19.5	0.25	0.00	897.08
-22.5	0.25	0.00	684.24
-25.5	0.28	0.00	599.17
-29	0.30	0.01	503.26
-33	0.32	0.01	409.74
-37.5	0.33	0.01	321.21
-42.5	0.30	0.01	229.84
-47.5	0.37	0.01	238.53
-55	0.37	0.01	184.52
-65	0.23	0.01	91.08

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

LUMENS TABULATION - (Cont.)

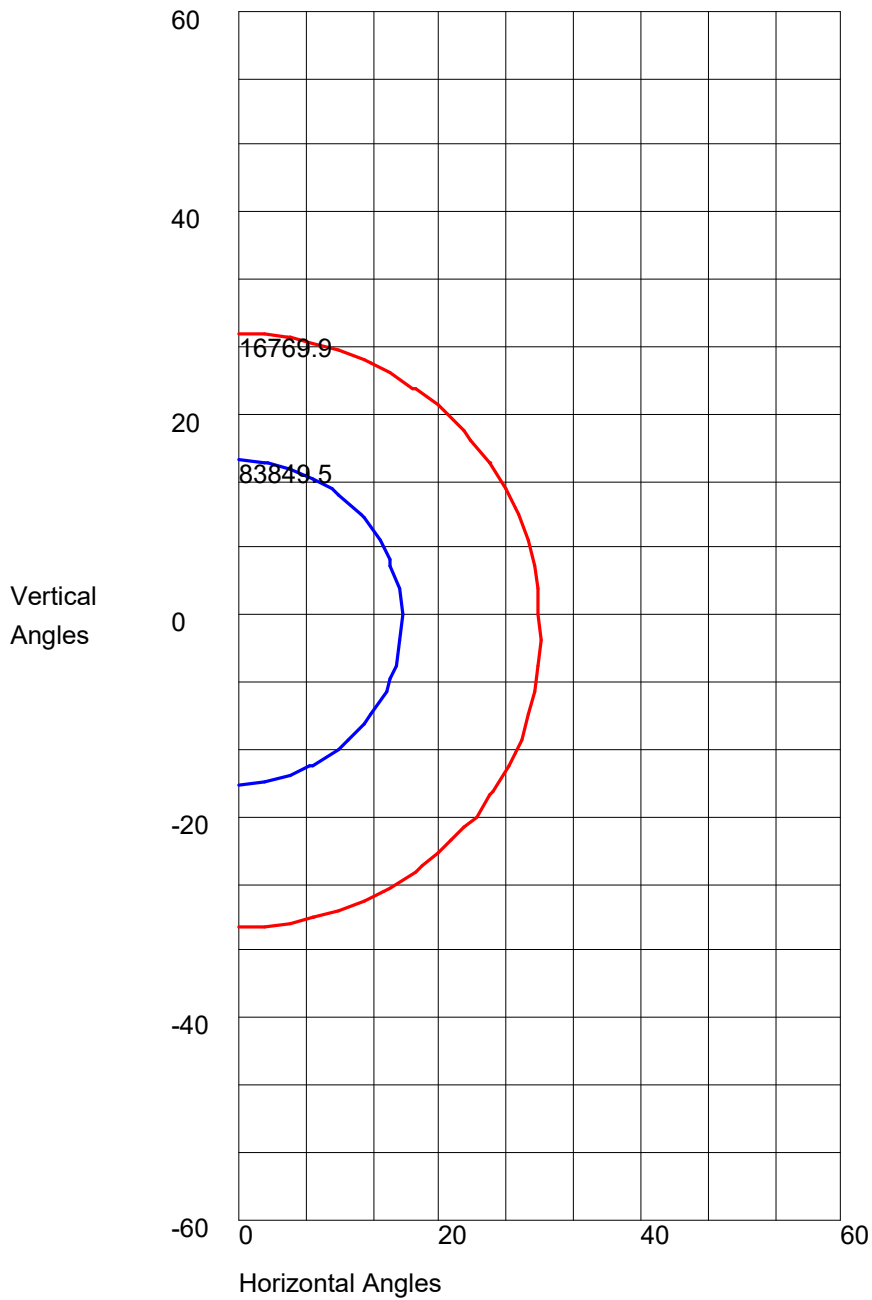
-75	0.11	0.00	37.34
-85	0.02	0.00	4.93
-90			
Total	8.52	0.16	32815.66

AXIAL CANDELA DISPLAY



Maximum Candela = 167699 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 167699 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 83849.5
10% Maximum Candela = 16769.9