



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-NF-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13012  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 10/12/21  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] ZNF-70L-NF-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLOR TEMP] 5000

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

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	243754
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	24.3
Vertical Beam Angle (50%)	24.4
Horizontal Field Angle (10%)	50.0
Vertical Field Angle (10%)	50.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	27126
Beam Efficiency	N.A.
Field Lumens	49922
Field Efficiency	N.A.
Spill Lumens	21110
Luminaire Lumens	71032
Total Efficiency	N.A.
Total Luminaire Watts	463.9
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	136	85	135
75	619	75	620
65	1326	65	1320
55	2886	55	2880
47.5	5213	47.5	5271
42.5	7234	42.5	7246
37.5	9453	37.5	9427
33	12138	33	12011
29	16080	29	16094
25.5	22950	25.5	23499
22.5	31958	22.5	32534
19.5	44359	19.5	44778
17	58512	17	58954
15	74347	15	75056
13	104082	13	105814
11	143889	11	144473
9	183914	9	182673
7	216001	7	214012
5	233695	5	234046
3	241465	3	241816
1	243611	1	243752
0	243747	0	243747
-1	243611	-1	243752
-3	241465	-3	241816
-5	233695	-5	234046
-7	216001	-7	214012
-9	183914	-9	182673
-11	143889	-11	144473
-13	104082	-13	105814
-15	74347	-15	75056
-17	58512	-17	58954
-19.5	44359	-19.5	44778
-22.5	31958	-22.5	32534
-25.5	22950	-25.5	23499
-29	16080	-29	16094
-33	12138	-33	12011
-37.5	9453	-37.5	9427
-42.5	7234	-42.5	7246
-47.5	5213	-47.5	5271
-55	2886	-55	2880
-65	1326	-65	1320
-75	619	-75	620
-85	136	-85	135
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 243754

Beam Edge = 121877 Cd (50% of Max.)

Field Edge = 24375.4 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>-90.0</u></b>	<b><u>-85.0</u></b>	<b><u>-75.0</u></b>	<b><u>-65.0</u></b>	<b><u>-55.0</u></b>	<b><u>-47.5</u></b>	<b><u>-42.5</u></b>	<b><u>-37.5</u></b>	<b><u>-33.0</u></b>	<b><u>-29.0</u></b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	11	33	49	68	85	95	104	110	115
<b>75.0</b>	0	31	105	187	278	345	390	433	470	502
<b>65.0</b>	0	51	191	357	549	690	785	878	962	1031
<b>55.0</b>	0	72	284	552	852	1119	1324	1553	1775	1965
<b>47.5</b>	0	88	351	693	1120	1560	1936	2361	2772	3182
<b>42.5</b>	0	97	399	786	1322	1942	2457	3078	3732	4355
<b>37.5</b>	0	106	443	878	1562	2377	3083	3992	4960	5834
<b>33.0</b>	0	112	479	961	1785	2792	3740	4937	6124	7136
<b>29.0</b>	0	118	510	1032	1976	3200	4364	5804	7116	8319
<b>25.5</b>	0	122	534	1094	2153	3543	4951	6516	7959	9274
<b>22.5</b>	0	125	552	1139	2289	3877	5411	7077	8663	10208
<b>19.5</b>	0	128	568	1184	2418	4181	5837	7609	9353	11147
<b>17.0</b>	0	130	580	1217	2526	4418	6156	8018	9919	11933
<b>15.0</b>	0	131	588	1240	2603	4591	6388	8313	10322	12536
<b>13.0</b>	0	133	596	1260	2671	4744	6592	8599	10680	13214
<b>11.0</b>	0	137	602	1277	2729	4875	6765	8841	11037	13794
<b>9.0</b>	0	136	607	1292	2778	4985	6909	9039	11362	14273
<b>7.0</b>	0	136	612	1304	2817	5072	7023	9197	11636	14819
<b>5.0</b>	0	136	618	1314	2850	5138	7107	9315	11849	15350
<b>3.0</b>	0	136	619	1324	2883	5211	7212	9397	12001	15702
<b>1.0</b>	0	136	619	1325	2885	5212	7227	9450	12110	15994
<b>0.0</b>	0	136	619	1326	2886	5213	7234	9453	12138	16080
<b>-1.0</b>	0	136	619	1325	2885	5212	7227	9450	12110	15994
<b>-3.0</b>	0	136	619	1324	2883	5211	7212	9397	12001	15702
<b>-5.0</b>	0	136	618	1314	2850	5138	7107	9315	11849	15350
<b>-7.0</b>	0	136	612	1304	2817	5072	7023	9197	11636	14819
<b>-9.0</b>	0	136	607	1292	2778	4985	6909	9039	11362	14273
<b>-11.0</b>	0	137	602	1277	2729	4875	6765	8841	11037	13794
<b>-13.0</b>	0	133	596	1260	2671	4744	6592	8599	10680	13214
<b>-15.0</b>	0	131	588	1240	2603	4591	6388	8313	10322	12536
<b>-17.0</b>	0	130	580	1217	2526	4418	6156	8018	9919	11933
<b>-19.5</b>	0	128	568	1184	2418	4181	5837	7609	9353	11147
<b>-22.5</b>	0	125	552	1139	2289	3877	5411	7077	8663	10208
<b>-25.5</b>	0	122	534	1094	2153	3543	4951	6516	7959	9274
<b>-29.0</b>	0	118	510	1032	1976	3200	4364	5804	7116	8319
<b>-33.0</b>	0	112	479	961	1785	2792	3740	4937	6124	7136
<b>-37.5</b>	0	106	443	878	1562	2377	3083	3992	4960	5834
<b>-42.5</b>	0	97	399	786	1322	1942	2457	3078	3732	4355
<b>-47.5</b>	0	88	351	693	1120	1560	1936	2361	2772	3182
<b>-55.0</b>	0	72	284	552	852	1119	1324	1553	1775	1965
<b>-65.0</b>	0	51	191	357	549	690	785	878	962	1031
<b>-75.0</b>	0	31	105	187	278	345	390	433	470	502
<b>-85.0</b>	0	11	33	49	68	85	95	104	110	115
<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	119	124	128	131	134	135	139	140	140	140
75.0	528	545	559	568	575	583	591	599	606	615
65.0	1089	1132	1180	1214	1238	1260	1279	1295	1309	1319
55.0	2149	2294	2428	2532	2606	2670	2722	2764	2795	2818
47.5	3532	3869	4174	4409	4595	4762	4908	5022	5112	5179
42.5	4945	5417	5848	6163	6406	6624	6811	6965	7088	7180
37.5	6545	7110	7654	8059	8345	8611	8841	9035	9183	9292
33.0	7988	8685	9328	9875	10295	10657	11003	11314	11575	11773
29.0	9288	10177	11080	11882	12514	13250	13838	14308	14849	15435
25.5	10530	11710	13039	14254	15613	17052	18320	19793	21068	22060
22.5	11750	13312	15348	17705	19992	22429	24703 *	27110 *	29009 *	30445 *
19.5	13135	15442	18779	22615	25995 *	29534 *	32973 *	36545 *	39368 *	41565 *
17.0	14344	17797	22672	27714 *	32010 *	36832 *	41305 *	46200 *	50483 *	53967 *
15.0	15620	19992	26079 *	32109 *	37641 *	43226 *	49439 *	55171 *	62571 *	68712 *
13.0	16934	22327	29644 *	36958 *	43257 *	50632 *	59071 *	68994 *	78969 *	91668 *
11.0	18068	24482 *	32925 *	41330 *	49510 *	59006 *	70961 *	87870 *	105714 *	121929 *
9.0	19490	26754 *	36310 *	46100 *	55151 *	68412 *	87171 *	110220 *	137280 *	159582 *
7.0	20710	28624 *	39165 *	50298 *	62364 *	78337 *	104245 *	136691 *	169358 *	190868 *
5.0	21723	30148 *	41386 *	53613 *	68434 *	91251 *	121282 *	159818 *	191332 *	215060 *
3.0	22439	31209 *	43104 *	56602 *	72706 *	100886 *	137993 *	176522 *	208912 *	225863 *
1.0	22862	31884 *	44121 *	58381 *	74906 *	104630 *	144252 *	183885 *	215633 *	233907 *
0.0	22950	31958 *	44359 *	58512 *	74347 *	104082 *	143889 *	183914 *	216001 *	233695 *
-1.0	22862	31884 *	44121 *	58381 *	74906 *	104630 *	144252 *	183885 *	215633 *	233907 *
-3.0	22439	31209 *	43104 *	56602 *	72706 *	100886 *	137993 *	176522 *	208912 *	225863 *
-5.0	21723	30148 *	41386 *	53613 *	68434 *	91251 *	121282 *	159818 *	191332 *	215060 *
-7.0	20710	28624 *	39165 *	50298 *	62364 *	78337 *	104245 *	136691 *	169358 *	190868 *
-9.0	19490	26754 *	36310 *	46100 *	55151 *	68412 *	87171 *	110220 *	137280 *	159582 *
-11.0	18068	24482 *	32925 *	41330 *	49510 *	59006 *	70961 *	87870 *	105714 *	121929 *
-13.0	16934	22327	29644 *	36958 *	43257 *	50632 *	59071 *	68994 *	78969 *	91668 *
-15.0	15620	19992	26079 *	32109 *	37641 *	43226 *	49439 *	55171 *	62571 *	68712 *
-17.0	14344	17797	22672	27714 *	32010 *	36832 *	41305 *	46200 *	50483 *	53967 *
-19.5	13135	15442	18779	22615	25995 *	29534 *	32973 *	36545 *	39368 *	41565 *
-22.5	11750	13312	15348	17705	19992	22429	24703 *	27110 *	29009 *	30445 *
-25.5	10530	11710	13039	14254	15613	17052	18320	19793	21068	22060
-29.0	9288	10177	11080	11882	12514	13250	13838	14308	14849	15435
-33.0	7988	8685	9328	9875	10295	10657	11003	11314	11575	11773
-37.5	6545	7110	7654	8059	8345	8611	8841	9035	9183	9292
-42.5	4945	5417	5848	6163	6406	6624	6811	6965	7088	7180
-47.5	3532	3869	4174	4409	4595	4762	4908	5022	5112	5179
-55.0	2149	2294	2428	2532	2606	2670	2722	2764	2795	2818
-65.0	1089	1132	1180	1214	1238	1260	1279	1295	1309	1319
-75.0	528	545	559	568	575	583	591	599	606	615
-85.0	119	124	128	131	134	135	139	140	140	140
-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	138	136	135	136	138	140	140	140	139	135
75.0	617	619	620	619	617	615	606	599	591	583
65.0	1325	1322	1320	1322	1325	1319	1309	1295	1279	1260

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**CANDELA TABULATION - (Cont.)**

55.0	2854	2871	2880	2871	2854	2818	2795	2764	2722	2670
47.5	5255	5266	5271	5266	5255	5179	5112	5022	4908	4762
42.5	7274	7255	7246	7255	7274	7180	7088	6965	6811	6624
37.5	9362	9420	9427	9420	9362	9292	9183	9035	8841	8611
33.0	11899	11989	12011	11989	11899	11773	11575	11314	11003	10657
29.0	15834	16055	16094	16055	15834	15435	14849	14308	13838	13250
25.5	22717	23264	23499	23264	22717	22060	21068	19793	18320	17052
22.5	31393 *	32218 *	32534 *	32218 *	31393 *	30445 *	29009 *	27110 *	24703 *	22429
19.5	43446 *	44523 *	44778 *	44523 *	43446 *	41565 *	39368 *	36545 *	32973 *	29534 *
17.0	56891 *	58647 *	58954 *	58647 *	56891 *	53967 *	50483 *	46200 *	41305 *	36832 *
15.0	73032 *	75399 *	75056 *	75399 *	73032 *	68712 *	62571 *	55171 *	49439 *	43226 *
13.0	101279 *	105933 *	105814 *	105933 *	101279 *	91668 *	78969 *	68994 *	59071 *	50632 *
11.0	137296 *	145400 *	144473 *	145400 *	137296 *	121929 *	105714 *	87870 *	70961 *	59006 *
9.0	175238 *	183822 *	182673 *	183822 *	175238 *	159582 *	137280 *	110220 *	87171 *	68412 *
7.0	207925 *	214785 *	214012 *	214785 *	207925 *	190868 *	169358 *	136691 *	104245 *	78337 *
5.0	226166 *	234770 *	234046 *	234770 *	226166 *	215060 *	191332 *	159818 *	121282 *	91251 *
3.0	236911 *	241404 *	241816 *	241404 *	236911 *	225863 *	208912 *	176522 *	137993 *	100886 *
1.0	240892 *	243754 *	243752 *	243754 *	240892 *	233907 *	215633 *	183885 *	144252 *	104630 *
0.0	241465 *	243611 *	243747 *	243611 *	241465 *	233695 *	216001 *	183914 *	143889 *	104082 *
-1.0	240892 *	243754 *	243752 *	243754 *	240892 *	233907 *	215633 *	183885 *	144252 *	104630 *
-3.0	236911 *	241404 *	241816 *	241404 *	236911 *	225863 *	208912 *	176522 *	137993 *	100886 *
-5.0	226166 *	234770 *	234046 *	234770 *	226166 *	215060 *	191332 *	159818 *	121282 *	91251 *
-7.0	207925 *	214785 *	214012 *	214785 *	207925 *	190868 *	169358 *	136691 *	104245 *	78337 *
-9.0	175238 *	183822 *	182673 *	183822 *	175238 *	159582 *	137280 *	110220 *	87171 *	68412 *
-11.0	137296 *	145400 *	144473 *	145400 *	137296 *	121929 *	105714 *	87870 *	70961 *	59006 *
-13.0	101279 *	105933 *	105814 *	105933 *	101279 *	91668 *	78969 *	68994 *	59071 *	50632 *
-15.0	73032 *	75399 *	75056 *	75399 *	73032 *	68712 *	62571 *	55171 *	49439 *	43226 *
-17.0	56891 *	58647 *	58954 *	58647 *	56891 *	53967 *	50483 *	46200 *	41305 *	36832 *
-19.5	43446 *	44523 *	44778 *	44523 *	43446 *	41565 *	39368 *	36545 *	32973 *	29534 *
-22.5	31393 *	32218 *	32534 *	32218 *	31393 *	30445 *	29009 *	27110 *	24703 *	22429
-25.5	22717	23264	23499	23264	22717	22060	21068	19793	18320	17052
-29.0	15834	16055	16094	16055	15834	15435	14849	14308	13838	13250
-33.0	11899	11989	12011	11989	11899	11773	11575	11314	11003	10657
-37.5	9362	9420	9427	9420	9362	9292	9183	9035	8841	8611
-42.5	7274	7255	7246	7255	7274	7180	7088	6965	6811	6624
-47.5	5255	5266	5271	5266	5255	5179	5112	5022	4908	4762
-55.0	2854	2871	2880	2871	2854	2818	2795	2764	2722	2670
-65.0	1325	1322	1320	1322	1325	1319	1309	1295	1279	1260
-75.0	617	619	620	619	617	615	606	599	591	583
-85.0	138	136	135	136	138	140	140	140	139	135
-90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**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	134	131	128	124	119	115	110	104	95	85
75.0	575	568	559	545	528	502	470	433	390	345
65.0	1238	1214	1180	1132	1089	1031	962	878	785	690
55.0	2606	2532	2428	2294	2149	1965	1775	1553	1324	1119
47.5	4595	4409	4174	3869	3532	3182	2772	2361	1936	1560
42.5	6406	6163	5848	5417	4945	4355	3732	3078	2457	1942
37.5	8345	8059	7654	7110	6545	5834	4960	3992	3083	2377
33.0	10295	9875	9328	8685	7988	7136	6124	4937	3740	2792
29.0	12514	11882	11080	10177	9288	8319	7116	5804	4364	3200
25.5	15613	14254	13039	11710	10530	9274	7959	6516	4951	3543

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

**CANDELA TABULATION - (Cont.)**

22.5	19992	17705	15348	13312	11750	10208	8663	7077	5411	3877
19.5	25995 *	22615	18779	15442	13135	11147	9353	7609	5837	4181
17.0	32010 *	27714 *	22672	17797	14344	11933	9919	8018	6156	4418
15.0	37641 *	32109 *	26079 *	19992	15620	12536	10322	8313	6388	4591
13.0	43257 *	36958 *	29644 *	22327	16934	13214	10680	8599	6592	4744
11.0	49510 *	41330 *	32925 *	24482 *	18068	13794	11037	8841	6765	4875
9.0	55151 *	46100 *	36310 *	26754 *	19490	14273	11362	9039	6909	4985
7.0	62364 *	50298 *	39165 *	28624 *	20710	14819	11636	9197	7023	5072
5.0	68434 *	53613 *	41386 *	30148 *	21723	15350	11849	9315	7107	5138
3.0	72706 *	56602 *	43104 *	31209 *	22439	15702	12001	9397	7212	5211
1.0	74906 *	58381 *	44121 *	31884 *	22862	15994	12110	9450	7227	5212
0.0	74347 *	58512 *	44359 *	31958 *	22950	16080	12138	9453	7234	5213
-1.0	74906 *	58381 *	44121 *	31884 *	22862	15994	12110	9450	7227	5212
-3.0	72706 *	56602 *	43104 *	31209 *	22439	15702	12001	9397	7212	5211
-5.0	68434 *	53613 *	41386 *	30148 *	21723	15350	11849	9315	7107	5138
-7.0	62364 *	50298 *	39165 *	28624 *	20710	14819	11636	9197	7023	5072
-9.0	55151 *	46100 *	36310 *	26754 *	19490	14273	11362	9039	6909	4985
-11.0	49510 *	41330 *	32925 *	24482 *	18068	13794	11037	8841	6765	4875
-13.0	43257 *	36958 *	29644 *	22327	16934	13214	10680	8599	6592	4744
-15.0	37641 *	32109 *	26079 *	19992	15620	12536	10322	8313	6388	4591
-17.0	32010 *	27714 *	22672	17797	14344	11933	9919	8018	6156	4418
-19.5	25995 *	22615	18779	15442	13135	11147	9353	7609	5837	4181
-22.5	19992	17705	15348	13312	11750	10208	8663	7077	5411	3877
-25.5	15613	14254	13039	11710	10530	9274	7959	6516	4951	3543
-29.0	12514	11882	11080	10177	9288	8319	7116	5804	4364	3200
-33.0	10295	9875	9328	8685	7988	7136	6124	4937	3740	2792
-37.5	8345	8059	7654	7110	6545	5834	4960	3992	3083	2377
-42.5	6406	6163	5848	5417	4945	4355	3732	3078	2457	1942
-47.5	4595	4409	4174	3869	3532	3182	2772	2361	1936	1560
-55.0	2606	2532	2428	2294	2149	1965	1775	1553	1324	1119
-65.0	1238	1214	1180	1132	1089	1031	962	878	785	690
-75.0	575	568	559	545	528	502	470	433	390	345
-85.0	134	131	128	124	119	115	110	104	95	85
-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	68	49	33	11	0
75.0	278	187	105	31	0
65.0	549	357	191	51	0
55.0	852	552	284	72	0
47.5	1120	693	351	88	0
42.5	1322	786	399	97	0
37.5	1562	878	443	106	0
33.0	1785	961	479	112	0
29.0	1976	1032	510	118	0
25.5	2153	1094	534	122	0
22.5	2289	1139	552	125	0
19.5	2418	1184	568	128	0
17.0	2526	1217	580	130	0
15.0	2603	1240	588	131	0
13.0	2671	1260	596	133	0
11.0	2729	1277	602	137	0
9.0	2778	1292	607	136	0

IES FLOOD REPORT  
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CANDELA TABULATION - (Cont.)

7.0	2817	1304	612	136	0
5.0	2850	1314	618	136	0
3.0	2883	1324	619	136	0
1.0	2885	1325	619	136	0
0.0	2886	1326	619	136	0
-1.0	2885	1325	619	136	0
-3.0	2883	1324	619	136	0
-5.0	2850	1314	618	136	0
-7.0	2817	1304	612	136	0
-9.0	2778	1292	607	136	0
-11.0	2729	1277	602	137	0
-13.0	2671	1260	596	133	0
-15.0	2603	1240	588	131	0
-17.0	2526	1217	580	130	0
-19.5	2418	1184	568	128	0
-22.5	2289	1139	552	125	0
-25.5	2153	1094	534	122	0
-29.0	1976	1032	510	118	0
-33.0	1785	961	479	112	0
-37.5	1562	878	443	106	0
-42.5	1322	786	399	97	0
-47.5	1120	693	351	88	0
-55.0	852	552	284	72	0
-65.0	549	357	191	51	0
-75.0	278	187	105	31	0
-85.0	68	49	33	11	0
-90.0	0	0	0	0	0

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

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 35516.12

Total Field Lumens (one side of beam only) = 24961.21

\* 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	0.10	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.19
75	1.15	2.30	2.29	2.27	2.24	2.20	2.16	2.11	2.06	2.51
65	2.96	5.91	5.89	5.83	5.74	5.65	5.53	5.40	5.26	6.37
55	6.39	12.74	12.63	12.48	12.31	12.09	11.82	11.49	11.11	13.30
47.5	9.30	18.55	18.35	18.07	17.75	17.34	16.83	16.22	15.53	18.36
42.5	9.53	19.06	18.91	18.60	18.24	17.78	17.21	16.54	15.79	18.62
37.5	12.70	25.35	25.15	24.80	24.34	23.74	23.01	22.16	21.21	25.06
33	14.68	29.23	28.94	28.51	27.90	27.13	26.22	25.21	24.10	28.41
29	17.10	33.96	33.39	32.49	31.40	30.28	29.05	27.61	26.10	30.49
25.5	21.03	41.48	40.44	38.92	36.96	34.78	32.57	30.22	27.80	31.80
22.5	25.48 *	50.04 *	48.59 *	46.61 *	43.88	40.46	36.87	33.29	29.67	32.73
19.5	35.19 *	69.22 *	66.93 *	63.79 *	59.74 *	54.59 *	49.00 *	43.42 *	37.91	40.38
17	39.39 *	77.44 *	74.40 *	70.20 *	65.08 *	58.88 *	52.38 *	45.95 *	39.65 *	41.48
15	40.83 *	80.36 *	76.76 *	71.41 *	64.68 *	57.63 *	50.89 *	44.25 *	37.91 *	39.26 *
13	55.16 *	108.26 *	101.70 *	91.46 *	80.15 *	69.80 *	60.29 *	51.65 *	43.91 *	45.12 *
11	76.40 *	149.14 *	137.40 *	120.65 *	103.02 *	86.06 *	71.41 *	59.82 *	50.09 *	50.93 *
9	99.97 *	195.36 *	180.51 *	158.89 *	133.05 *	106.86 *	85.08 *	68.59 *	56.24 *	56.65 *
7	121.12 *	237.98 *	222.92 *	199.05 *	166.97 *	131.49 *	100.75 *	78.10 *	62.63 *	62.15 *
5	136.71 *	269.00 *	255.25 *	232.23 *	198.24 *	156.60 *	117.72 *	88.78 *	68.72 *	66.70 *
3	145.00 *	285.92 *	274.69 *	254.82 *	222.18 *	178.67 *	134.50 *	98.50 *	73.60 *	70.40 *
1	147.84 *	293.14 *	284.89 *	267.89 *	236.77 *	192.78 *	145.33 *	104.37 *	76.89 *	73.12 *
0	74.24 *	147.60 *	144.33 *	136.20 *	120.57 *	98.38 *	74.02 *	52.90 *	38.96 *	37.13 *
-1	74.24 *	147.60 *	144.33 *	136.20 *	120.57 *	98.38 *	74.02 *	52.90 *	38.96 *	37.13 *
	147.84 *	293.14 *	284.89 *	267.89 *	236.77 *	192.78 *	145.33 *	104.37 *	76.89 *	73.12 *

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

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	145.00 *	285.92 *	274.69 *	254.82 *	222.18 *	178.67 *	134.50 *	98.50 *	73.60 *	70.40 *
<b>-5</b>	136.71 *	269.00 *	255.25 *	232.23 *	198.24 *	156.60 *	117.72 *	88.78 *	68.72 *	66.70 *
<b>-7</b>	121.12 *	237.98 *	222.92 *	199.05 *	166.97 *	131.49 *	100.75 *	78.10 *	62.63 *	62.15 *
<b>-9</b>	99.97 *	195.36 *	180.51 *	158.89 *	133.05 *	106.86 *	85.08 *	68.59 *	56.24 *	56.65 *
<b>-11</b>	76.40 *	149.14 *	137.40 *	120.65 *	103.02 *	86.06 *	71.41 *	59.82 *	50.09 *	50.93 *
<b>-13</b>	55.16 *	108.26 *	101.70 *	91.46 *	80.15 *	69.80 *	60.29 *	51.65 *	43.91 *	45.12 *
<b>-15</b>	40.83 *	80.36 *	76.76 *	71.41 *	64.68 *	57.63 *	50.89 *	44.25 *	37.91 *	39.26 *
<b>-17</b>	39.39 *	77.44 *	74.40 *	70.20 *	65.08 *	58.88 *	52.38 *	45.95 *	39.65 *	41.48
<b>-19.5</b>	35.19 *	69.22 *	66.93 *	63.79 *	59.74 *	54.59 *	49.00 *	43.42 *	37.91	40.38
<b>-22.5</b>	25.48 *	50.04 *	48.59 *	46.61 *	43.88	40.46	36.87	33.29	29.67	32.73
<b>-25.5</b>	21.03	41.48	40.44	38.92	36.96	34.78	32.57	30.22	27.80	31.80
<b>-29</b>	17.10	33.96	33.39	32.49	31.40	30.28	29.05	27.61	26.10	30.49
<b>-33</b>	14.68	29.23	28.94	28.51	27.90	27.13	26.22	25.21	24.10	28.41
<b>-37.5</b>	12.70	25.35	25.15	24.80	24.34	23.74	23.01	22.16	21.21	25.06
<b>-42.5</b>	9.53	19.06	18.91	18.60	18.24	17.78	17.21	16.54	15.79	18.62
<b>-47.5</b>	9.30	18.55	18.35	18.07	17.75	17.34	16.83	16.22	15.53	18.36
<b>-55</b>	6.39	12.74	12.63	12.48	12.31	12.09	11.82	11.49	11.11	13.30
<b>-65</b>	2.96	5.91	5.89	5.83	5.74	5.65	5.53	5.40	5.26	6.37
<b>-75</b>	1.15	2.30	2.29	2.27	2.24	2.20	2.16	2.11	2.06	2.51
<b>-85</b>	0.10	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.19	0.23
<b>-90</b>										
<b>Total</b>	2184.53	4304.49	4109.11	3790.79	3342.82	2806.77	2285.66	1853.56	1530.69	1582.39

**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>	0.27	0.25	0.28	0.29	0.30	0.29	0.24	0.27	0.22	0.11
<b>85</b>	2.89	2.75	2.99	3.12	3.13	2.98	2.46	2.77	2.21	0.97
<b>75</b>	7.29	6.87	7.46	7.74	7.67	7.25	5.95	6.65	5.21	2.19
<b>65</b>	15.00	13.91	14.77	14.97	14.46	13.24	10.55	11.47	8.78	3.60
<b>55</b>	20.42	18.54	19.24	18.98	17.75	15.69	11.99	12.46	9.18	3.67

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

<b>47.5</b>										
	20.59	18.53	18.97	18.33	16.71	14.33	10.63	10.62	7.46	2.90
<b>42.5</b>										
	27.76	25.06	25.68	24.64	22.05	18.39	13.27	12.87	8.65	3.26
<b>37.5</b>										
	31.46	28.48	29.32	28.26	25.20	20.67	14.52	13.69	8.87	3.23
<b>33</b>										
	33.50	30.17	31.02	29.96	26.84	21.98	15.18	13.94	8.75	3.10
<b>29</b>										
	34.34	30.46	31.02	29.85	26.83	22.08	15.13	13.59	8.33	2.89
<b>25.5</b>										
	34.17	29.61	29.68	28.28	25.36	20.96	14.36	12.71	7.62	2.59
<b>22.5</b>										
	40.23	33.58	32.87	30.83	27.45	22.69	15.59	13.68	8.02	2.69
<b>19.5</b>										
	39.82	31.68	29.95	27.64	24.41	20.13	13.86	12.10	6.98	2.31
<b>17</b>										
	36.91	28.28	25.79	23.34	20.46	16.84	11.60	10.10	5.77	1.89
<b>15</b>										
	41.82 *	31.25	27.63	24.41	21.22	17.43	12.01	10.44	5.91	1.92
<b>13</b>										
	46.65 *	34.15	29.38	25.44	21.91	17.96	12.37	10.73	6.04	1.94
<b>11</b>										
	51.38 *	37.06	31.10	26.35	22.54	18.40	12.67	10.98	6.14	1.97
<b>9</b>										
	55.81 *	39.89	32.83	27.20	23.07	18.76	12.91	11.18	6.23	1.98
<b>7</b>										
	59.43 *	42.24 *	34.40	28.01	23.50	19.04	13.10	11.34	6.30	2.00
<b>5</b>										
	62.21 *	44.04 *	35.64	28.66	23.82	19.26	13.28	11.49	6.37	2.02
<b>3</b>										
	64.11 *	45.24 *	36.48	29.14	24.04	19.41	13.38	11.57	6.40	2.02
<b>1</b>										
	32.48 *	22.88 *	18.45	14.70	12.07	9.73	6.70	5.79	3.20	1.01
<b>0</b>										
	32.48 *	22.88 *	18.45	14.70	12.07	9.73	6.70	5.79	3.20	1.01
<b>-1</b>										
	64.11 *	45.24 *	36.48	29.14	24.04	19.41	13.38	11.57	6.40	2.02
<b>-3</b>										
	62.21 *	44.04 *	35.64	28.66	23.82	19.26	13.28	11.49	6.37	2.02
<b>-5</b>										
	59.43 *	42.24 *	34.40	28.01	23.50	19.04	13.10	11.34	6.30	2.00
<b>-7</b>										
	55.81 *	39.89	32.83	27.20	23.07	18.76	12.91	11.18	6.23	1.98
<b>-9</b>										
	51.38 *	37.06	31.10	26.35	22.54	18.40	12.67	10.98	6.14	1.97
<b>-11</b>										
	46.65 *	34.15	29.38	25.44	21.91	17.96	12.37	10.73	6.04	1.94
<b>-13</b>										
	41.82 *	31.25	27.63	24.41	21.22	17.43	12.01	10.44	5.91	1.92
<b>-15</b>										
	36.91	28.28	25.79	23.34	20.46	16.84	11.60	10.10	5.77	1.89
<b>-17</b>										
	39.82	31.68	29.95	27.64	24.41	20.13	13.86	12.10	6.98	2.31
<b>-19.5</b>										
	40.23	33.58	32.87	30.83	27.45	22.69	15.59	13.68	8.02	2.69

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

<b>-22.5</b>	34.17	29.61	29.68	28.28	25.36	20.96	14.36	12.71	7.62	2.59
<b>-25.5</b>	34.34	30.46	31.02	29.85	26.83	22.08	15.13	13.59	8.33	2.89
<b>-29</b>	33.50	30.17	31.02	29.96	26.84	21.98	15.18	13.94	8.75	3.10
<b>-33</b>	31.46	28.48	29.32	28.26	25.20	20.67	14.52	13.69	8.87	3.23
<b>-37.5</b>	27.76	25.06	25.68	24.64	22.05	18.39	13.27	12.87	8.65	3.26
<b>-42.5</b>	20.59	18.53	18.97	18.33	16.71	14.33	10.63	10.62	7.46	2.90
<b>-47.5</b>	20.42	18.54	19.24	18.98	17.75	15.69	11.99	12.46	9.18	3.67
<b>-55</b>	15.00	13.91	14.77	14.97	14.46	13.24	10.55	11.47	8.78	3.60
<b>-65</b>	7.29	6.87	7.46	7.74	7.67	7.25	5.95	6.65	5.21	2.19
<b>-75</b>	2.89	2.75	2.99	3.12	3.13	2.98	2.46	2.77	2.21	0.97
<b>-85</b>	0.27	0.25	0.28	0.29	0.30	0.29	0.24	0.27	0.22	0.11
<b>-90</b>										
<b>Total</b>	1517.08	1189.86	1089.93	980.31	861.57	715.02	503.49	460.88	285.30	100.49

<b>Vert. Angles</b>	<b>Horizontal Angles</b>		
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>
<b>90</b>			
	0.03	0.00	4.54
<b>85</b>			
	0.24	0.01	47.82
<b>75</b>			
	0.50	0.01	119.34
<b>65</b>			
	0.79	0.02	237.91
<b>55</b>			
	0.79	0.02	315.02
<b>47.5</b>			
	0.62	0.02	309.97
<b>42.5</b>			
	0.69	0.02	409.83
<b>37.5</b>			
	0.68	0.02	464.71
<b>33</b>			
	0.64	0.02	506.97
<b>29</b>			
	0.59	0.01	551.13
<b>25.5</b>			
	0.53	0.01	593.51
<b>22.5</b>			
	0.54	0.01	748.36
<b>19.5</b>			
	0.46	0.01	774.19
<b>17</b>			
	0.38	0.01	745.34

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

**LUMENS TABULATION - (Cont.)**

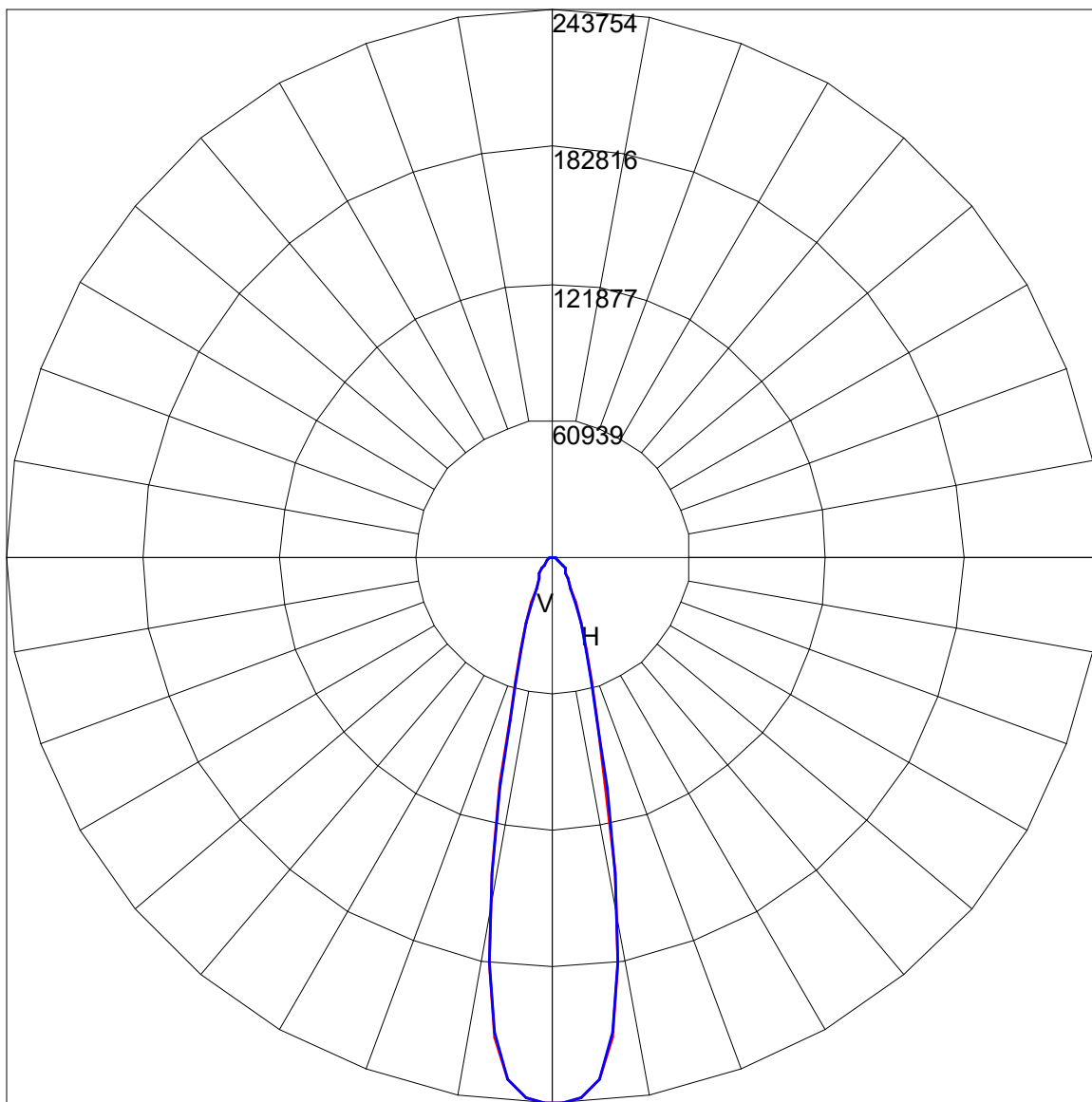
<b>15</b>	0.38	0.01	901.93
<b>13</b>	0.39	0.01	1111.88
<b>11</b>	0.39	0.01	1360.18
<b>9</b>	0.39	0.01	1613.46
<b>7</b>	0.40	0.01	1829.72
<b>5</b>	0.40	0.01	1985.47
<b>3</b>	0.40	0.01	2075.22
<b>1</b>	0.20	0.00	1051.56
<b>0</b>	0.20	0.00	1051.56
<b>-1</b>	0.40	0.01	2075.22
<b>-3</b>	0.40	0.01	1985.47
<b>-5</b>	0.40	0.01	1829.72
<b>-7</b>	0.39	0.01	1613.46
<b>-9</b>	0.39	0.01	1360.18
<b>-11</b>	0.39	0.01	1111.88
<b>-13</b>	0.38	0.01	901.93
<b>-15</b>	0.38	0.01	745.34
<b>-17</b>	0.46	0.01	774.19
<b>-19.5</b>	0.54	0.01	748.36
<b>-22.5</b>	0.53	0.01	593.51
<b>-25.5</b>	0.59	0.01	551.13
<b>-29</b>	0.64	0.02	506.97
<b>-33</b>	0.68	0.02	464.71
<b>-37.5</b>	0.69	0.02	409.83
<b>-42.5</b>	0.62	0.02	309.97
<b>-47.5</b>	0.79	0.02	315.02
<b>-55</b>	0.79	0.02	237.91
<b>-65</b>	0.50	0.01	119.34

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

**LUMENS TABULATION - (Cont.)**

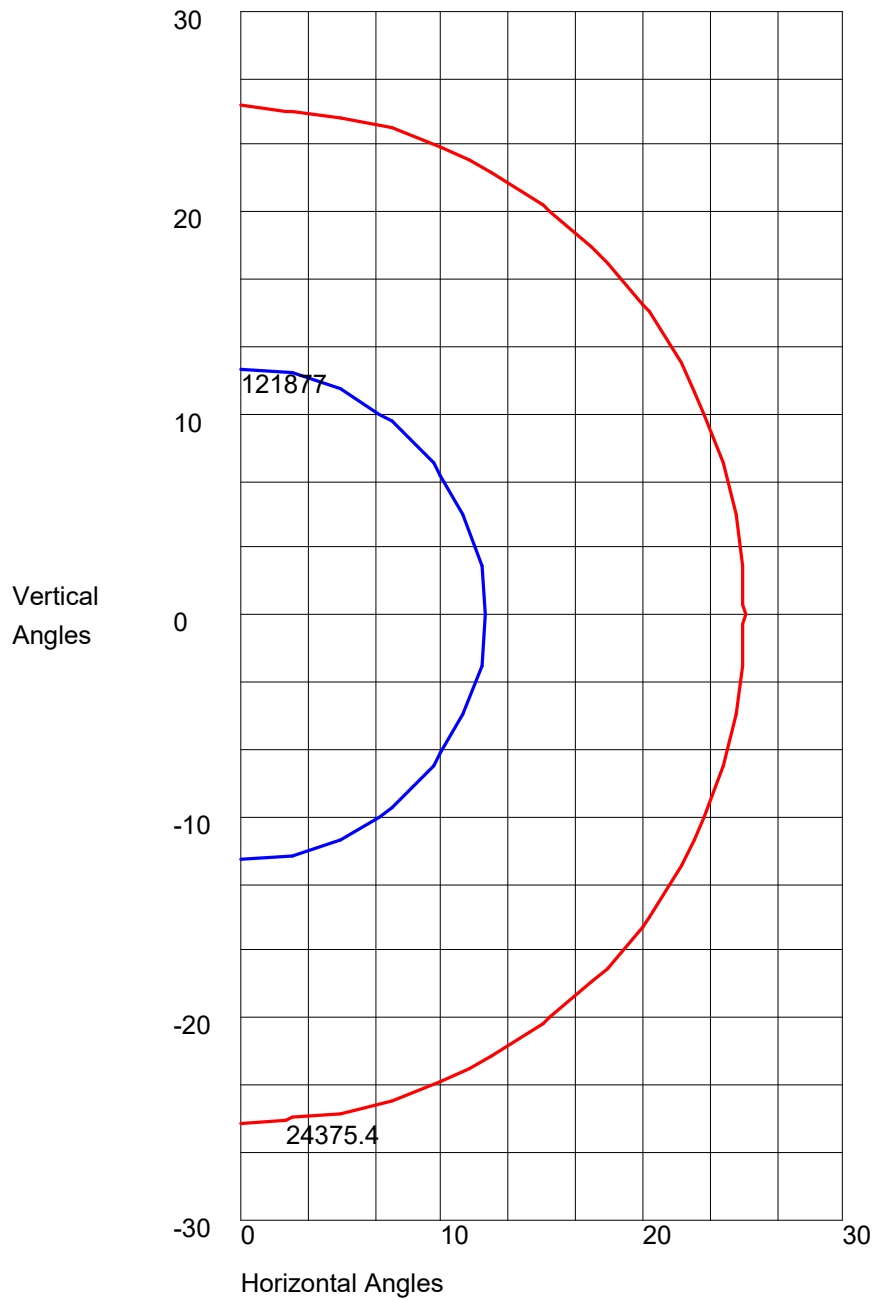
<b>-75</b>	0.24	0.01	47.82
<b>-85</b>	0.03	0.00	4.54
<b>-90</b>			
<b>Total</b>	20.86	0.50	35516.12

AXIAL CANDELA DISPLAY



Maximum Candela = 243754 Located At Horizontal Angle =-1, Vertical Angle =-1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 243754 Located At Horizontal Angle =-1, Vertical Angle =-1  
50% Maximum Candela = 121877  
10% Maximum Candela = 24375.4