



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13046  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/30/22  
[TEST DATE] 11/11/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ZNF-85L-NF-50-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] 5000

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

### CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	294357
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	24.4
Vertical Beam Angle (50%)	24.1
Horizontal Field Angle (10%)	49.0
Vertical Field Angle (10%)	48.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	32062
Beam Efficiency	N.A.
Field Lumens	57784
Field Efficiency	N.A.
Spill Lumens	22735
Luminaire Lumens	80518
Total Efficiency	N.A.
Total Luminaire Watts	572.9
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	69	85	0
75	472	75	0
65	1214	65	245
55	2939	55	1638
47.5	5517	47.5	3160
42.5	7814	42.5	5026
37.5	10516	37.5	7487
33	13403	33	10540
29	17925	29	14633
25.5	25954	25.5	21531
22.5	36479	22.5	30993
19.5	51244	19.5	44639
17	68141	17	61257
15	87032	15	79252
13	123429	13	113486
11	175714	11	164652
9	225811	9	216966
7	262831	7	258276
5	283077	5	280064
3	291465	3	289127
1	293586	1	292718
0	293602	0	293602
-1	293586	-1	294357
-3	291465	-3	293657
-5	283077	-5	286331
-7	262831	-7	267821
-9	225811	-9	230945
-11	175714	-11	182718
-13	123429	-13	132661
-15	87032	-15	92799
-17	68141	-17	72223
-19.5	51244	-19.5	54328
-22.5	36479	-22.5	39130
-25.5	25954	-25.5	28019
-29	17925	-29	19475
-33	13403	-33	14394
-37.5	10516	-37.5	11662
-42.5	7814	-42.5	8806
-47.5	5517	-47.5	6350
-55	2939	-55	3557
-65	1214	-65	1618
-75	472	-75	761
-85	69	-85	171
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 294357

Beam Edge = 147178.5 Cd (50% of Max.)

Field Edge = 29435.7 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	4	10	10	10	10	8	5	3	2
<b>75.0</b>	0	11	38	57	70	65	58	48	35	28
<b>65.0</b>	0	19	81	156	231	270	288	304	317	317
<b>55.0</b>	0	29	139	292	465	609	735	860	985	1102
<b>47.5</b>	0	38	188	407	682	961	1211	1480	1754	1998
<b>42.5</b>	0	43	224	494	873	1335	1730	2184	2644	3071
<b>37.5</b>	0	48	260	587	1123	1798	2378	3090	3807	4510
<b>33.0</b>	0	52	292	679	1378	2263	3077	4068	5069	6029
<b>29.0</b>	0	56	322	762	1608	2736	3775	5050	6309	7530
<b>25.5</b>	0	58	348	836	1829	3157	4478	5952	7447	8851
<b>22.5</b>	0	60	368	895	2008	3560	5047	6720	8424	10072
<b>19.5</b>	0	62	387	957	2180	3941	5591	7476	9330	11219
<b>17.0</b>	0	64	402	1005	2327	4251	6013	8064	10060	12243
<b>15.0</b>	0	65	413	1041	2437	4476	6340	8498	10627	13065
<b>13.0</b>	0	66	424	1074	2538	4681	6642	8922	11140	13816
<b>11.0</b>	0	68	433	1105	2631	4865	6922	9309	11658	14514
<b>9.0</b>	0	68	442	1132	2716	5027	7179	9636	12146	15152
<b>7.0</b>	0	68	451	1156	2790	5167	7410	9911	12586	15995
<b>5.0</b>	0	69	461	1176	2846	5287	7613	10133	12959	16876
<b>3.0</b>	0	69	465	1197	2904	5426	7773	10314	13247	17567
<b>1.0</b>	0	69	470	1208	2927	5487	7800	10467	13370	17865
<b>0.0</b>	0	69	472	1214	2939	5517	7814	10516	13403	17925
<b>-1.0</b>	0	69	474	1220	2952	5543	7854	10569	13419	17963
<b>-3.0</b>	0	70	478	1231	2977	5595	7935	10619	13399	17885
<b>-5.0</b>	0	70	482	1232	2966	5567	7895	10608	13381	17693
<b>-7.0</b>	0	70	480	1234	2956	5537	7854	10534	13289	17284
<b>-9.0</b>	0	71	481	1233	2936	5475	7773	10412	13103	16792
<b>-11.0</b>	0	71	480	1227	2904	5385	7651	10241	12825	16202
<b>-13.0</b>	0	69	477	1217	2862	5265	7490	10023	12520	15494
<b>-15.0</b>	0	69	474	1203	2808	5116	7277	9746	12218	14673
<b>-17.0</b>	0	68	470	1186	2744	4936	7017	9434	11863	14026
<b>-19.5</b>	0	68	462	1159	2650	4707	6680	8976	11268	13238
<b>-22.5</b>	0	67	451	1120	2527	4411	6221	8353	10459	12278
<b>-25.5</b>	0	65	437	1082	2376	4071	5734	7694	9636	11279
<b>-29.0</b>	0	63	418	1025	2180	3700	5113	6881	8595	10119
<b>-33.0</b>	0	60	393	956	1974	3242	4413	5886	7352	8619
<b>-37.5</b>	0	57	364	873	1722	2766	3665	4800	5987	7021
<b>-42.5</b>	0	52	328	782	1449	2263	2918	3718	4559	5321
<b>-47.5</b>	0	47	286	688	1231	1828	2308	2866	3389	3910
<b>-55.0</b>	0	38	225	545	943	1309	1576	1887	2184	2447
<b>-65.0</b>	0	26	145	351	603	802	940	1067	1177	1262
<b>-75.0</b>	0	16	77	173	298	397	467	530	582	618
<b>-85.0</b>	0	6	23	45	76	102	117	129	140	148
<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	1	1	1	1	1	1	1	0	0	0
75.0	19	13	8	2	1	1	1	0	0	0
65.0	309	301	302	298	294	292	287	281	271	260
55.0	1201	1290	1377	1441	1489	1527	1552	1572	1588	1599
47.5	2193	2404	2566	2701	2807	2892	2939	3021	3088	3137
42.5	3475	3782	4064	4258	4433	4585	4698	4811	4914	4987
37.5	5103	5562	6009	6339	6578	6837	7033	7234	7373	7464
33.0	6825	7473	8096	8642	9033	9365	9672	9952	10174	10308
29.0	8476	9353	10225	10928	11484	12146	12731	13248	13645	14031
25.5	10061	11233	12451	13494	14661	15872	16928	18313	19501	20332
22.5	11576	13103	14972	16931	18922	21300	23471	25902	27868	29187
19.5	13166	15417	18620	22357	25547	28935	32454 *	36199 *	39239 *	41252 *
17.0	14541	18013	22958	28050	32227 *	37444 *	42257 *	47556 *	52194 *	55828 *
15.0	16023	20556	26829	33032 *	38997 *	45098 *	52128 *	58471 *	66204 *	72687 *
13.0	17631	23343	31064 *	39002 *	45872 *	53999 *	63679 *	74986 *	85285 *	98410 *
11.0	19070	26011	35071 *	44393 *	53580 *	64316 *	78175 *	97342 *	116557 *	134839 *
9.0	20820	28759	39311 *	50400 *	60770 *	76058 *	97624 *	124127 *	158525 *	188254 *
7.0	22379	31150 *	43068 *	56256 *	70310 *	89088 *	118932 *	158063 *	200667 *	230049 *
5.0	23872	33372 *	46283 *	61648 *	78920 *	105886 *	143310 *	190999 *	228658 *	260078 *
3.0	25060	35188 *	49342 *	65655 *	84456 *	117523 *	163375 *	213024 *	253988 *	272723 *
1.0	25770	36329 *	51040 *	67882 *	87026 *	122593 *	172449 *	222076 *	260853 *	282850 *
0.0	25954	36479 *	51244 *	68141 *	87032 *	123429 *	175714 *	225811 *	262831 *	283077 *
-1.0	25998	36536 *	51410 *	68521 *	88903 *	126335 *	177064 *	225648 *	262669 *	283439 *
-3.0	25819	36067 *	50551 *	66764 *	87053 *	122190 *	168525 *	217608 *	257783 *	276405 *
-5.0	25313	35190 *	48481 *	63267 *	81993 *	110510 *	148813 *	200321 *	238361 *	264657 *
-7.0	24425	33679 *	46023 *	59534 *	74535 *	94874 *	128653 *	171428 *	212440 *	237444 *
-9.0	23027	31503 *	42783 *	54690 *	65975 *	83165 *	107895 *	138671 *	172019 *	201215 *
-11.0	21365	28803	38831 *	49069 *	59344 *	71798 *	87671 *	109007 *	131628 *	153697 *
-13.0	20021	26320	35018 *	43912 *	51762 *	61558 *	72399 *	84528 *	97733 *	115119 *
-15.0	18385	23496	30895 *	38202 *	45038 *	52064 *	60141 *	67372 *	76935 *	85542 *
-17.0	16811	20778	26820	32996 *	38400 *	44388 *	49957 *	56084 *	61625 *	66514 *
-19.5	15334	18138	22161	26889	31136 *	35617 *	39730 *	44038 *	47632 *	50563 *
-22.5	13875	15690	18252	21122	23975	26859	29527 *	32407 *	34682 *	36573 *
-25.5	12677	13916	15483	17091	18700	20366	21833	23563	25050	26372
-29.0	11302	12356	13400	14199	14843	15733	16463	17055	17710	18427
-33.0	9717	10603	11414	12065	12542	12952	13308	13611	13887	14120
-37.5	7892	8643	9329	9842	10211	10551	10851	11105	11294	11434
-42.5	5990	6545	7092	7509	7798	8057	8282	8471	8625	8740
-47.5	4341	4741	5099	5374	5594	5793	5969	6100	6199	6269
-55.0	2671	2845	3005	3135	3229	3313	3385	3442	3487	3519
-65.0	1335	1392	1451	1494	1523	1549	1571	1590	1605	1617
-75.0	648	669	687	700	709	720	730	739	747	758
-85.0	154	159	164	167	170	171	176	175	175	175
-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	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	257	249	245	249	257	260	271	281	287	292

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**CANDELA TABULATION - (Cont.)**

55.0	1623	1633	1638	1633	1623	1599	1588	1572	1552	1527
47.5	3188	3169	3160	3169	3188	3137	3088	3021	2939	2892
42.5	5064	5039	5026	5039	5064	4987	4914	4811	4698	4585
37.5	7506	7512	7487	7512	7506	7464	7373	7234	7033	6837
33.0	10371	10495	10540	10495	10371	10308	10174	9952	9672	9365
29.0	14249	14517	14633	14517	14249	14031	13645	13248	12731	12146
25.5	20803	21284	21531	21284	20803	20332	19501	18313	16928	15872
22.5	30007 *	30725 *	30993 *	30725 *	30007 *	29187	27868	25902	23471	21300
19.5	43045 *	44263 *	44639 *	44263 *	43045 *	41252 *	39239 *	36199 *	32454 *	28935
17.0	59344 *	61607 *	61257 *	61607 *	59344 *	55828 *	52194 *	47556 *	42257 *	37445 *
15.0	76989 *	80251 *	79252 *	80251 *	76989 *	72687 *	66204 *	58471 *	52128 *	45098 *
13.0	107645 *	114728 *	113486 *	114728 *	107645 *	98410 *	85285 *	74986 *	63679 *	53999 *
11.0	153971 *	165803 *	164652 *	165803 *	153971 *	134839 *	116557 *	97342 *	78175 *	64316 *
9.0	206287 *	217785 *	216966 *	217785 *	206287 *	188254 *	158525 *	124127 *	97624 *	76058 *
7.0	251607 *	258873 *	258276 *	258873 *	251607 *	230049 *	200667 *	158063 *	118932 *	89088 *
5.0	272551 *	280756 *	280064 *	280756 *	272551 *	260078 *	228658 *	190999 *	143310 *	105886 *
3.0	284874 *	288863 *	289127 *	288863 *	284874 *	272723 *	253988 *	213024 *	163375 *	117523 *
1.0	290449 *	293034 *	292718 *	293034 *	290449 *	282850 *	260853 *	222076 *	172449 *	122593 *
0.0	291465 *	293586 *	293602 *	293586 *	291465 *	283077 *	262831 *	225811 *	175714 *	123429 *
-1.0	291305 *	294329 *	294357 *	294329 *	291305 *	283439 *	262669 *	225648 *	177064 *	126335 *
-3.0	287498 *	292671 *	293657 *	292671 *	287498 *	276405 *	257783 *	217608 *	168525 *	122190 *
-5.0	276691 *	285379 *	286331 *	285379 *	276691 *	264657 *	238361 *	200321 *	148813 *	110510 *
-7.0	259203 *	266030 *	267821 *	266030 *	259203 *	237444 *	212440 *	171428 *	128653 *	94874 *
-9.0	221722 *	232126 *	230945 *	232126 *	221722 *	201215 *	172019 *	138671 *	107895 *	83165 *
-11.0	175062 *	184775 *	182718 *	184775 *	175062 *	153697 *	131628 *	109007 *	87671 *	71798 *
-13.0	128302 *	132896 *	132661 *	132896 *	128302 *	115119 *	97733 *	84528 *	72399 *	61558 *
-15.0	91133 *	93275 *	92799 *	93275 *	91133 *	85542 *	76935 *	67372 *	60141 *	52064 *
-17.0	70285 *	72148 *	72223 *	72148 *	70285 *	66514 *	61625 *	56084 *	49957 *	44388 *
-19.5	53005 *	54234 *	54328 *	54234 *	53005 *	50563 *	47632 *	44038 *	39730 *	35617 *
-22.5	38143 *	39085 *	39130 *	39085 *	38143 *	36573 *	34682 *	32407 *	29527 *	26859
-25.5	27371	27920	28019	27920	27371	26372	25050	23563	21833	20366
-29.0	18947	19347	19475	19347	18947	18427	17710	17055	16463	15733
-33.0	14288	14376	14394	14376	14288	14120	13887	13611	13308	12952
-37.5	11525	11636	11662	11636	11525	11434	11294	11105	10851	10551
-42.5	8855	8822	8806	8822	8855	8740	8625	8471	8282	8057
-47.5	6347	6349	6350	6349	6347	6269	6199	6100	5969	5793
-55.0	3555	3556	3557	3556	3555	3519	3487	3442	3385	3313
-65.0	1625	1620	1618	1620	1625	1617	1605	1590	1571	1549
-75.0	759	760	761	760	759	758	747	739	730	720
-85.0	173	172	171	172	173	175	175	175	176	171
-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	1	1	1	1	1	2	3	5	8	10
75.0	1	2	8	13	19	28	35	48	58	65
65.0	294	298	302	301	309	317	317	304	288	270
55.0	1489	1441	1377	1290	1201	1102	985	860	735	609
47.5	2807	2701	2566	2404	2193	1998	1754	1480	1211	961
42.5	4433	4258	4064	3782	3475	3071	2644	2184	1730	1335
37.5	6578	6339	6009	5562	5103	4510	3807	3090	2378	1798
33.0	9033	8642	8096	7473	6825	6029	5069	4068	3077	2263
29.0	11484	10928	10225	9353	8476	7530	6309	5050	3775	2736
25.5	14661	13494	12451	11233	10061	8851	7447	5952	4478	3157

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

22.5	18922	16931	14972	13103	11576	10072	8424	6720	5047	3560
19.5	25547	22357	18620	15417	13166	11219	9330	7476	5591	3941
17.0	32227 *	28050	22958	18013	14541	12243	10060	8064	6013	4251
15.0	38997 *	33032 *	26829	20556	16023	13065	10627	8498	6340	4476
13.0	45872 *	39002 *	31064 *	23343	17631	13816	11140	8922	6642	4681
11.0	53580 *	44393 *	35071 *	26011	19070	14514	11658	9309	6922	4865
9.0	60770 *	50400 *	39311 *	28759	20820	15152	12146	9636	7179	5027
7.0	70310 *	56256 *	43068 *	31150 *	22379	15995	12586	9911	7410	5167
5.0	78920 *	61648 *	46283 *	33372 *	23872	16876	12959	10133	7613	5287
3.0	84456 *	65655 *	49342 *	35188 *	25060	17567	13247	10314	7773	5426
1.0	87026 *	67882 *	51040 *	36329 *	25770	17865	13370	10467	7800	5487
0.0	87032 *	68141 *	51244 *	36479 *	25954	17925	13403	10516	7814	5517
-1.0	88903 *	68521 *	51410 *	36536 *	25998	17963	13419	10569	7854	5543
-3.0	87053 *	66764 *	50551 *	36067 *	25819	17885	13399	10619	7935	5595
-5.0	81993 *	63267 *	48481 *	35190 *	25313	17693	13381	10608	7895	5567
-7.0	74535 *	59534 *	46023 *	33679 *	24425	17284	13289	10534	7854	5537
-9.0	65975 *	54690 *	42783 *	31503 *	23027	16792	13103	10412	7773	5475
-11.0	59344 *	49069 *	38831 *	28803	21365	16202	12825	10241	7651	5385
-13.0	51762 *	43912 *	35018 *	26320	20021	15494	12520	10023	7490	5265
-15.0	45038 *	38202 *	30895 *	23496	18385	14673	12218	9746	7277	5116
-17.0	38400 *	32996 *	26820	20778	16811	14026	11863	9434	7017	4936
-19.5	31136 *	26889	22161	18138	15334	13238	11268	8976	6680	4707
-22.5	23975	21122	18252	15690	13875	12278	10459	8353	6221	4411
-25.5	18700	17091	15483	13916	12677	11279	9636	7694	5734	4071
-29.0	14843	14199	13400	12356	11302	10119	8595	6881	5113	3700
-33.0	12542	12065	11414	10603	9717	8619	7352	5886	4413	3242
-37.5	10211	9842	9329	8643	7892	7021	5987	4800	3665	2766
-42.5	7798	7509	7092	6545	5990	5321	4559	3718	2918	2263
-47.5	5594	5374	5099	4741	4341	3910	3389	2866	2308	1828
-55.0	3229	3135	3005	2845	2671	2447	2184	1887	1576	1309
-65.0	1523	1494	1451	1392	1335	1262	1177	1067	940	802
-75.0	709	700	687	669	648	618	582	530	467	397
-85.0	170	167	164	159	154	148	140	129	117	102
-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	10	10	10	4	0
75.0	70	57	38	11	0
65.0	231	156	81	19	0
55.0	465	292	139	29	0
47.5	682	407	188	38	0
42.5	873	494	224	43	0
37.5	1123	587	260	48	0
33.0	1378	679	292	52	0
29.0	1608	762	322	56	0
25.5	1829	836	348	58	0
22.5	2008	895	368	60	0
19.5	2180	957	387	62	0
17.0	2327	1005	402	64	0
15.0	2437	1041	413	65	0
13.0	2538	1074	424	66	0
11.0	2631	1105	433	68	0
9.0	2716	1132	442	68	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	2790	1156	451	68	0
<b>5.0</b>	2846	1176	461	69	0
<b>3.0</b>	2904	1197	465	69	0
<b>1.0</b>	2927	1208	470	69	0
<b>0.0</b>	2939	1214	472	69	0
<b>-1.0</b>	2952	1220	474	69	0
<b>-3.0</b>	2977	1231	478	70	0
<b>-5.0</b>	2966	1232	482	70	0
<b>-7.0</b>	2956	1234	480	70	0
<b>-9.0</b>	2936	1233	481	71	0
<b>-11.0</b>	2904	1227	480	71	0
<b>-13.0</b>	2862	1217	477	69	0
<b>-15.0</b>	2808	1203	474	69	0
<b>-17.0</b>	2744	1186	470	68	0
<b>-19.5</b>	2650	1159	462	68	0
<b>-22.5</b>	2527	1120	451	67	0
<b>-25.5</b>	2376	1082	437	65	0
<b>-29.0</b>	2180	1025	418	63	0
<b>-33.0</b>	1974	956	393	60	0
<b>-37.5</b>	1722	873	364	57	0
<b>-42.5</b>	1449	782	328	52	0
<b>-47.5</b>	1231	688	286	47	0
<b>-55.0</b>	943	545	225	38	0
<b>-65.0</b>	603	351	145	26	0
<b>-75.0</b>	298	173	77	16	0
<b>-85.0</b>	76	45	23	6	0
<b>-90.0</b>	0	0	0	0	0

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 40259.15

Total Field Lumens (one side of beam only) = 28891.77

\* 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	0.38	0.77	0.79	0.80	0.83	0.85	0.87	0.87	0.87	1.10
55	2.87	5.73	5.68	5.63	5.60	5.54	5.45	5.32	5.16	6.18
47.5	5.48	10.97	10.88	10.69	10.48	10.22	9.96	9.66	9.26	10.96
42.5	6.24	12.53	12.44	12.21	11.94	11.60	11.26	10.87	10.39	12.28
37.5	9.54	19.12	19.01	18.73	18.35	17.83	17.25	16.58	15.82	18.69
33	12.35	24.58	24.37	24.07	23.57	22.87	22.06	21.16	20.15	23.66
29	15.29	30.22	29.75	29.18	28.37	27.36	26.17	24.84	23.48	27.40
25.5	19.18	37.75	36.91	35.79	34.16	32.14	30.07	28.01	25.91	29.80
22.5	23.88	46.95	45.73	44.03	41.44	38.07	34.67	31.37	28.11	31.38
19.5	34.41 *	67.60 *	65.40 *	62.50 *	58.46 *	53.11 *	47.44	41.99	36.79	39.53
17	40.32 *	79.25 *	75.76 *	71.38 *	66.05 *	59.42 *	52.55 *	45.87 *	39.59	41.58
15	43.00 *	84.69 *	80.48 *	74.80 *	67.70 *	60.12 *	52.71 *	45.45 *	38.74 *	40.09
13	59.05 *	115.56 *	108.09 *	97.72 *	85.95 *	74.77 *	64.03 *	54.37 *	45.94 *	46.98 *
11	85.09 *	165.04 *	150.37 *	131.80 *	112.86 *	94.25 *	77.52 *	64.36 *	53.54 *	54.07 *
9	116.54 *	226.44 *	207.64 *	181.21 *	149.78 *	119.17 *	94.20 *	75.28 *	61.24 *	61.17 *
7	144.98 *	284.49 *	266.24 *	235.53 *	193.46 *	149.61 *	113.73 *	87.55 *	69.61 *	68.35 *
5	164.18 *	323.83 *	308.20 *	278.53 *	234.79 *	183.38 *	136.23 *	101.73 *	78.22 *	74.94 *
3	173.44 *	343.09 *	331.28 *	307.61 *	267.45 *	213.19 *	157.94 *	114.32 *	85.11 *	80.61 *
1	177.24 *	352.28 *	343.63 *	324.26 *	286.54 *	231.26 *	171.60 *	121.65 *	89.31 *	84.58 *
0	89.32 *	177.86 *	174.39 *	165.04 *	146.53 *	119.40 *	88.52 *	62.08 *	45.40 *	43.08 *
-1	89.54 *	178.19 *	174.61 *	165.40 *	147.34 *	120.63 *	89.76 *	62.91 *	45.76 *	43.27 *
	178.96 *	354.89 *	345.99 *	327.26 *	290.69 *	236.63 *	177.01 *	125.46 *	91.13 *	85.79 *

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-3</b>	176.37 *	347.72 *	335.84 *	314.20 *	275.72 *	220.56 *	163.88 *	118.74 *	87.57 *	82.83 *
<b>-5</b>	168.38 *	330.99 *	315.41 *	288.67 *	248.11 *	194.75 *	143.86 *	106.96 *	81.79 *	78.58 *
<b>-7</b>	151.83 *	298.05 *	279.42 *	249.35 *	209.50 *	163.98 *	123.52 *	94.15 *	74.59 *	73.41 *
<b>-9</b>	126.50 *	247.70 *	228.41 *	199.50 *	166.30 *	132.96 *	104.44 *	82.84 *	67.07 *	67.03 *
<b>-11</b>	96.41 *	189.05 *	173.86 *	150.91 *	127.56 *	106.07 *	87.43 *	72.25 *	59.76 *	60.32 *
<b>-13</b>	68.78 *	135.65 *	127.65 *	113.70 *	98.51 *	85.32 *	73.34 *	62.19 *	52.39 *	53.53 *
<b>-15</b>	50.33 *	99.50 *	95.25 *	88.04 *	79.03 *	70.06 *	61.54 *	53.17 *	45.28 *	46.61 *
<b>-17</b>	48.15 *	95.01 *	91.30 *	85.71 *	78.95 *	71.17 *	63.20 *	55.25 *	47.37 *	49.21
<b>-19.5</b>	42.67 *	84.23 *	81.26 *	77.00 *	71.83 *	65.56 *	58.87 *	52.13	45.29	47.96
<b>-22.5</b>	30.65 *	60.51 *	58.55 *	55.74 *	52.35	48.29	44.06	39.86	35.53	39.02
<b>-25.5</b>	25.26	49.86	48.45	46.42	44.01	41.43	38.79	36.02	33.22	38.08
<b>-29</b>	20.59	40.77	39.98	38.86	37.56	36.26	34.83	33.14	31.42	36.94
<b>-33</b>	17.84	35.50	35.12	34.58	33.86	32.99	31.95	30.76	29.42	34.70
<b>-37.5</b>	15.58	31.08	30.81	30.36	29.78	29.03	28.11	27.06	25.88	30.53
<b>-42.5</b>	11.55	23.12	22.95	22.59	22.17	21.61	20.93	20.13	19.23	22.67
<b>-47.5</b>	11.32	22.61	22.44	22.12	21.75	21.26	20.63	19.87	19.03	22.53
<b>-55</b>	7.88	15.76	15.67	15.49	15.27	14.98	14.63	14.21	13.73	16.43
<b>-65</b>	3.62	7.25	7.23	7.16	7.06	6.94	6.81	6.65	6.48	7.83
<b>-75</b>	1.42	2.84	2.83	2.81	2.77	2.73	2.68	2.62	2.56	3.11
<b>-85</b>	0.13	0.26	0.26	0.27	0.26	0.26	0.26	0.25	0.25	0.30
<b>-90</b>										
<b>Total</b>	2566.52	5059.25	4830.35	4447.68	3904.71	3247.65	2604.75	2079.93	1697.4	1737.12

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>19.5</u></b>	<b><u>22.5</u></b>	<b><u>25.5</u></b>	<b><u>29</u></b>	<b><u>33</u></b>	<b><u>37.5</u></b>	<b><u>42.5</u></b>	<b><u>47.5</u></b>	<b><u>55</u></b>	<b><u>65</u></b>
<b>90</b>	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.04	0.04	0.03
<b>85</b>	0.05	0.07	0.12	0.18	0.25	0.35	0.38	0.55	0.56	0.30
<b>75</b>	1.33	1.34	1.59	1.82	1.97	2.04	1.83	2.27	1.95	0.86
<b>65</b>	6.97	6.47	6.94	7.10	6.90	6.38	5.12	5.63	4.35	1.74
<b>55</b>	12.22	11.09	11.54	11.43	10.66	9.37	7.10	7.28	5.27	2.00

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	13.67	12.37	12.72	12.36	11.28	9.63	7.05	6.88	4.67	1.71
<b>42.5</b>	20.70	18.70	19.14	18.32	16.40	13.68	9.74	9.16	5.85	2.04
<b>37.5</b>	26.05	23.44	23.95	22.81	20.19	16.55	11.53	10.55	6.45	2.13
<b>33</b>	29.98	26.82	27.35	26.04	22.94	18.63	12.76	11.41	6.73	2.14
<b>29</b>	32.29	28.58	28.95	27.54	24.24	19.65	13.33	11.67	6.70	2.06
<b>25.5</b>	33.12	28.78	28.83	27.25	23.96	19.42	13.12	11.31	6.35	1.91
<b>22.5</b>	39.74	33.35	32.72	30.58	26.82	21.72	14.65	12.53	6.89	2.03
<b>19.5</b>	39.99	31.90	30.31	27.97	24.43	19.79	13.32	11.34	6.15	1.79
<b>17</b>	37.69	28.85	26.47	24.01	20.84	16.86	11.35	9.64	5.18	1.49
<b>15</b>	43.42	32.37	28.68	25.40	21.93	17.73	11.92	10.10	5.39	1.54
<b>13</b>	49.26	35.92	30.81	26.69	22.96	18.54	12.44	10.51	5.59	1.58
<b>11</b>	55.09 *	39.51	32.96	27.92	23.92	19.27	12.92	10.89	5.77	1.62
<b>9</b>	60.69 *	43.03	35.23	29.17	24.78	19.91	13.34	11.22	5.93	1.65
<b>7</b>	65.63 *	46.23	37.49	30.50	25.51	20.45	13.71	11.50	6.06	1.69
<b>5</b>	70.03 *	49.04	39.51	31.67	26.11	20.90	14.05	11.76	6.18	1.72
<b>3</b>	73.32 *	51.06 *	40.87	32.40	26.52	21.20	14.26	11.96	6.26	1.74
<b>1</b>	37.34 *	25.99 *	20.73	16.33	13.36	10.67	7.16	6.03	3.15	0.88
<b>0</b>	37.46 *	26.08 *	20.81	16.37	13.40	10.72	7.19	6.06	3.17	0.88
<b>-1</b>	74.46 *	51.93 *	41.54	32.72	26.86	21.56	14.50	12.19	6.37	1.77
<b>-3</b>	72.63 *	51.08 *	41.09	32.56	26.86	21.61	14.53	12.22	6.39	1.78
<b>-5</b>	69.68 *	49.50 *	40.14	32.19	26.75	21.51	14.46	12.16	6.38	1.78
<b>-7</b>	65.68 *	47.01	38.63	31.57	26.49	21.33	14.34	12.08	6.36	1.78
<b>-9</b>	60.53 *	43.70	36.67	30.76	26.07	21.04	14.15	11.93	6.31	1.78
<b>-11</b>	55.01 *	40.28	34.63	29.78	25.52	20.65	13.88	11.73	6.24	1.77
<b>-13</b>	49.36	36.82	32.49	28.67	24.90	20.14	13.54	11.47	6.15	1.75
<b>-15</b>	43.50	33.17	30.28	27.56	24.21	19.52	13.11	11.15	6.04	1.73
<b>-17</b>	46.86	37.07	35.19	32.89	29.06	23.41	15.71	13.43	7.36	2.13
<b>-19.5</b>	47.50	39.47	38.90	37.00	32.78	26.44	17.78	15.32	8.51	2.49

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

<b>-22.5</b>	40.53	35.16	35.62	34.19	30.34	24.50	16.50	14.35	8.11	2.41
<b>-25.5</b>	41.17	36.70	37.63	36.21	32.13	25.95	17.54	15.41	8.87	2.70
<b>-29</b>	40.75	36.71	37.68	36.22	32.14	26.00	17.73	15.86	9.33	2.91
<b>-33</b>	38.38	34.61	35.45	34.04	30.25	24.62	17.06	15.60	9.45	3.03
<b>-37.5</b>	33.71	30.33	31.07	29.88	26.67	22.02	15.63	14.65	9.18	3.05
<b>-42.5</b>	25.03	22.56	23.17	22.42	20.33	17.22	12.54	12.09	7.89	2.71
<b>-47.5</b>	25.10	22.85	23.76	23.36	21.67	18.89	14.17	14.23	9.72	3.40
<b>-55</b>	18.54	17.20	18.28	18.46	17.67	15.95	12.45	13.06	9.29	3.29
<b>-65</b>	8.95	8.44	9.15	9.50	9.39	8.76	7.01	7.50	5.42	1.94
<b>-75</b>	3.58	3.40	3.71	3.88	3.86	3.62	2.92	3.12	2.25	0.83
<b>-85</b>	0.34	0.33	0.36	0.38	0.38	0.36	0.29	0.32	0.23	0.09
<b>-90</b>										
<b>Total</b>	1647.33	1279.32	1163.17	1038.08	903.70	738.58	508.12	450.15	260.49	80.64

<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>			
	0.01	0.00	0.19
<b>85</b>			
	0.08	0.00	2.94
<b>75</b>			
	0.20	0.00	25.35
<b>65</b>			
	0.35	0.01	111.11
<b>55</b>			
	0.39	0.01	186.93
<b>47.5</b>			
	0.33	0.01	204.43
<b>42.5</b>			
	0.38	0.01	305.03
<b>37.5</b>			
	0.39	0.01	382.89
<b>33</b>			
	0.38	0.01	447.23
<b>29</b>			
	0.36	0.01	505.10
<b>25.5</b>			
	0.33	0.01	560.00
<b>22.5</b>			
	0.35	0.01	728.60
<b>19.5</b>			
	0.30	0.01	779.06
<b>17</b>			
	0.25	0.00	770.41

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

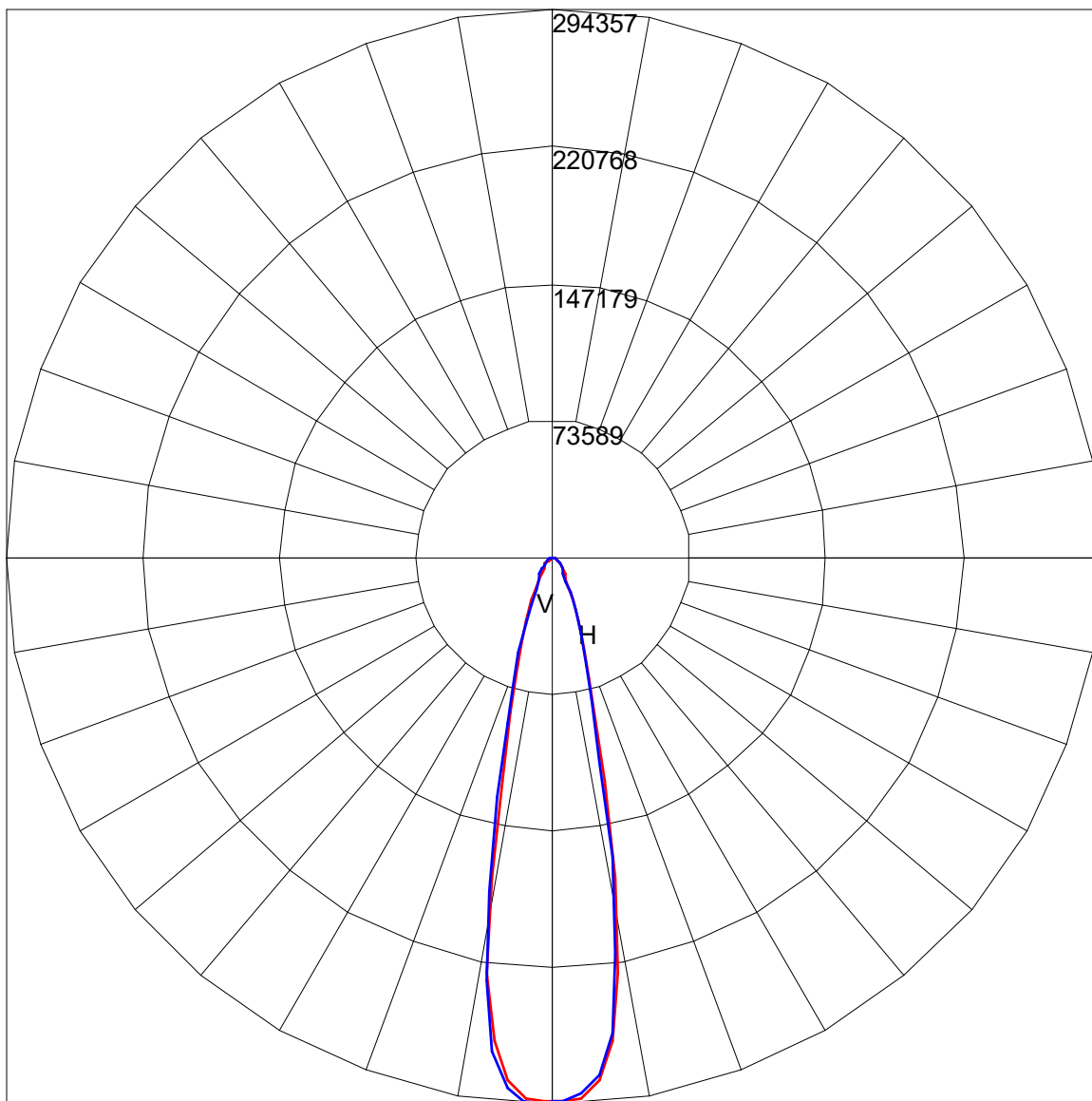
<b>15</b>	0.26	0.00	951.20
<b>13</b>	0.26	0.00	1203.47
<b>11</b>	0.27	0.00	1522.8
<b>9</b>	0.27	0.00	1858.79
<b>7</b>	0.28	0.00	2143.08
<b>5</b>	0.28	0.00	2345.28
<b>3</b>	0.28	0.00	2462.24
<b>1</b>	0.14	0.00	1253.41
<b>0</b>	0.14	0.00	1259.7
<b>-1</b>	0.29	0.00	2498.00
<b>-3</b>	0.29	0.00	2404.48
<b>-5</b>	0.29	0.00	2232.36
<b>-7</b>	0.29	0.00	1983.38
<b>-9</b>	0.29	0.00	1675.99
<b>-11</b>	0.29	0.00	1363.43
<b>-13</b>	0.29	0.00	1096.65
<b>-15</b>	0.29	0.00	899.36
<b>-17</b>	0.35	0.01	928.76
<b>-19.5</b>	0.42	0.01	893.41
<b>-22.5</b>	0.40	0.01	706.66
<b>-25.5</b>	0.45	0.01	656.29
<b>-29</b>	0.49	0.01	606.17
<b>-33</b>	0.52	0.01	559.74
<b>-37.5</b>	0.53	0.01	494.93
<b>-42.5</b>	0.47	0.01	373.40
<b>-47.5</b>	0.59	0.01	381.28
<b>-55</b>	0.57	0.01	288.83
<b>-65</b>	0.35	0.01	143.47

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : ZNF-85L-NF-50-GS.IES**

**LUMENS TABULATION - (Cont.)**

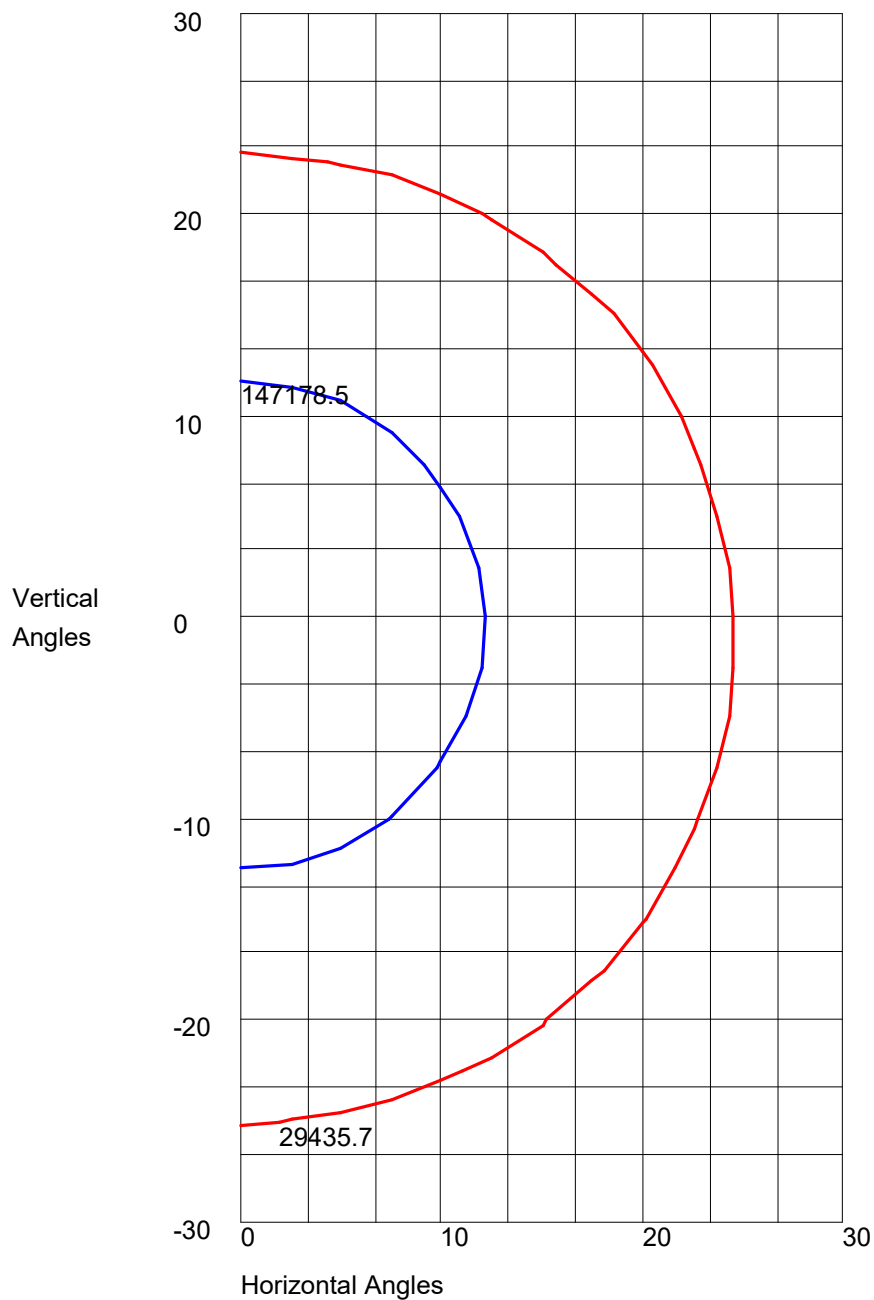
<b>-75</b>	0.16	0.00	57.70
<b>-85</b>	0.02	0.00	5.60
<b>-90</b>			
<b>Total</b>	13.93	0.25	40259.12

AXIAL CANDELA DISPLAY



Maximum Candela = 294357 Located At Horizontal Angle = 0, Vertical Angle = -1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 294357 Located At Horizontal Angle = 0, Vertical Angle = -1  
50% Maximum Candela = 147178.5  
10% Maximum Candela = 29435.7