



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-VNF-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-13064

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/30/22

[TEST DATE] 11/19/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ZNF-100L-VNF-40

[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	2 H x 2 V
Maximum Candela	823397
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	13.8
Vertical Beam Angle (50%)	14.1
Horizontal Field Angle (10%)	28.2
Vertical Field Angle (10%)	28.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	27623
Beam Efficiency	N.A.
Field Lumens	54932
Field Efficiency	N.A.
Spill Lumens	40119
Luminaire Lumens	95051
Total Efficiency	N.A.
Total Luminaire Watts	767.2
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	205	85	206
75	852	75	842
65	1557	65	1557
55	2898	55	2886
47.5	5961	47.5	5999
42.5	9238	42.5	9279
37.5	12952	37.5	12982
33	15906	33	15931
29	18118	29	18247
25.5	20810	25.5	21073
22.5	25468	22.5	25591
19.5	33063	19.5	33154
17	46028	17	47040
15	64873	15	67973
13	104699	13	107241
11	164243	11	168363
9	258808	9	267772
7	402231	7	416602
5	606881	5	620690
3	769683	3	774318
1	818192	1	819128
0	823397	0	823397
-1	818192	-1	819128
-3	769683	-3	774318
-5	606881	-5	620690
-7	402231	-7	416602
-9	258808	-9	267772
-11	164243	-11	168363
-13	104699	-13	107241
-15	64873	-15	67973
-17	46028	-17	47040
-19.5	33063	-19.5	33154
-22.5	25468	-22.5	25591
-25.5	20810	-25.5	21073
-29	18118	-29	18247
-33	15906	-33	15931
-37.5	12952	-37.5	12982
-42.5	9238	-42.5	9279
-47.5	5961	-47.5	5999
-55	2898	-55	2886
-65	1557	-65	1557
-75	852	-75	842
-85	205	-85	206
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 823397

Beam Edge = 411698.5 Cd (50% of Max.)

Field Edge = 82339.7 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	0	0	0	0	0	0	0	0	0	0
85.0	0	16	50	76	104	123	136	150	161	170
75.0	0	48	156	264	389	483	543	598	645	685
65.0	0	79	276	498	745	913	1021	1125	1216	1291
55.0	0	110	404	757	1110	1374	1545	1738	1922	2083
47.5	0	132	498	929	1382	1752	2054	2425	2798	3219
42.5	0	146	560	1036	1563	2056	2494	3108	3860	4692
37.5	0	159	617	1137	1751	2423	3104	4197	5541	6873
33.0	0	169	663	1222	1940	2799	3858	5575	7365	9035
29.0	0	177	705	1294	2107	3223	4699	6910	9079	11127
25.5	0	183	738	1356	2262	3607	5568	8064	10546	12721
22.5	0	188	763	1396	2383	4043	6256	9027	11710	13866
19.5	0	192	786	1435	2491	4428	6913	9930	12786	14904
17.0	0	195	802	1463	2585	4739	7396	10623	13497	15722
15.0	0	197	813	1483	2651	5004	7770	11128	13995	16291
13.0	0	199	823	1501	2709	5237	8118	11591	14444	16717
11.0	0	205	831	1515	2760	5440	8425	11994	14846	17099
9.0	0	205	838	1528	2801	5610	8683	12330	15186	17432
7.0	0	205	844	1539	2834	5748	8890	12602	15465	17725
5.0	0	205	852	1547	2863	5852	9047	12808	15682	17957
3.0	0	205	852	1555	2895	5960	9220	12931	15831	18113
1.0	0	205	852	1556	2897	5961	9232	12971	15898	18138
0.0	0	205	852	1557	2898	5961	9238	12952	15906	18118
-1.0	0	205	852	1556	2897	5961	9232	12971	15898	18138
-3.0	0	205	852	1555	2895	5960	9220	12931	15831	18113
-5.0	0	205	852	1547	2863	5852	9047	12808	15682	17957
-7.0	0	205	844	1539	2834	5748	8890	12602	15465	17725
-9.0	0	205	838	1528	2801	5610	8683	12330	15186	17432
-11.0	0	205	831	1515	2760	5440	8425	11994	14846	17099
-13.0	0	199	823	1501	2709	5237	8118	11591	14444	16717
-15.0	0	197	813	1483	2651	5004	7770	11128	13995	16291
-17.0	0	195	802	1463	2585	4739	7396	10623	13497	15722
-19.5	0	192	786	1435	2491	4428	6913	9930	12786	14904
-22.5	0	188	763	1396	2383	4043	6256	9027	11710	13866
-25.5	0	183	738	1356	2262	3607	5568	8064	10546	12721
-29.0	0	177	705	1294	2107	3223	4699	6910	9079	11127
-33.0	0	169	663	1222	1940	2799	3858	5575	7365	9035
-37.5	0	159	617	1137	1751	2423	3104	4197	5541	6873
-42.5	0	146	560	1036	1563	2056	2494	3108	3860	4692
-47.5	0	132	498	929	1382	1752	2054	2425	2798	3219
-55.0	0	110	404	757	1110	1374	1545	1738	1922	2083
-65.0	0	79	276	498	745	913	1021	1125	1216	1291
-75.0	0	48	156	264	389	483	543	598	645	685
-85.0	0	16	50	76	104	123	136	150	161	170
-90.0	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	177	183	190	195	199	200	205	204	204	203
75.0	717	741	762	779	791	803	815	825	834	846
65.0	1357	1397	1433	1459	1477	1494	1508	1519	1527	1532
55.0	2232	2346	2463	2571	2647	2714	2768	2813	2848	2876
47.5	3606	4052	4445	4761	5024	5255	5453	5621	5757	5860
42.5	5551	6254	6946	7454	7832	8169	8456	8691	8876	9011
37.5	8056	9015	9937	10630	11122	11582	11993	12344	12590	12762
33.0	10521	11708	12777	13484	13961	14397	14807	15168	15445	15637
29.0	12739	13870	14915	15729	16269	16653	17052	17415	17727	17937
25.5	14273	15524	16646	17409	17956	18462	18922	19590	20189	20613
22.5	15548	16774	17867	18801	19756	20697	21563	22825	23905	24723
19.5	16663	17881	19215	20905	22486	24278	26003	27938	29617	30935
17.0	17383	18818	20888	23402	25599	28265	30759	34725	38424	41398
15.0	17957	19724	22447	25583	28690	32171	37513	42638	52106	59367
13.0	18484	20692	24274	28241	32160	38441	47159	59327	72547	89028 *
11.0	18974	21614	26067	30688	37532	47100	61099	82013	105220 *	131928 *
9.0	19614	22917	27976	34527	42422	58656	81351	108824 *	150492 *	190524 *
7.0	20169	24012	29602	38007	51164	70940	103059 *	148809 *	200485 *	285546 *
5.0	20551	24848	30867	40695	57768	85791 *	126519 *	184537 *	282877 *	392630 *
3.0	20789	25425	32222	43764	62459	96002 *	146582 *	223531 *	342063 *	521809 *
1.0	20844	25609	32987	45856	65376	102629 *	159703 *	250018 *	386511 *	598579 *
0.0	20810	25468	33063	46028	64873	104699 *	164243 *	258808 *	402231 *	606881 *
-1.0	20844	25609	32987	45856	65376	102629 *	159703 *	250018 *	386511 *	598579 *
-3.0	20789	25425	32222	43764	62459	96002 *	146582 *	223531 *	342063 *	521809 *
-5.0	20551	24848	30867	40695	57768	85791 *	126519 *	184537 *	282877 *	392630 *
-7.0	20169	24012	29602	38007	51164	70940	103059 *	148809 *	200485 *	285546 *
-9.0	19614	22917	27976	34527	42422	58656	81351	108824 *	150492 *	190524 *
-11.0	18974	21614	26067	30688	37532	47100	61099	82013	105220 *	131928 *
-13.0	18484	20692	24274	28241	32160	38441	47159	59327	72547	89028 *
-15.0	17957	19724	22447	25583	28690	32171	37513	42638	52106	59367
-17.0	17383	18818	20888	23402	25599	28265	30759	34725	38424	41398
-19.5	16663	17881	19215	20905	22486	24278	26003	27938	29617	30935
-22.5	15548	16774	17867	18801	19756	20697	21563	22825	23905	24723
-25.5	14273	15524	16646	17409	17956	18462	18922	19590	20189	20613
-29.0	12739	13870	14915	15729	16269	16653	17052	17415	17727	17937
-33.0	10521	11708	12777	13484	13961	14397	14807	15168	15445	15637
-37.5	8056	9015	9937	10630	11122	11582	11993	12344	12590	12762
-42.5	5551	6254	6946	7454	7832	8169	8456	8691	8876	9011
-47.5	3606	4052	4445	4761	5024	5255	5453	5621	5757	5860
-55.0	2232	2346	2463	2571	2647	2714	2768	2813	2848	2876
-65.0	1357	1397	1433	1459	1477	1494	1508	1519	1527	1532
-75.0	717	741	762	779	791	803	815	825	834	846
-85.0	177	183	190	195	199	200	205	204	204	203
-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	204	205	206	205	204	203	204	204	205	200
75.0	844	843	842	843	844	846	834	825	815	803
65.0	1545	1553	1557	1553	1545	1532	1527	1519	1508	1494

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CANDELA TABULATION - (Cont.)

55.0	2900	2891	2886	2891	2900	2876	2848	2813	2768	2714
47.5	5972	5990	5999	5990	5972	5860	5757	5621	5453	5255
42.5	9169	9242	9279	9242	9169	9011	8876	8691	8456	8169
37.5	12864	12968	12982	12968	12864	12762	12590	12344	11993	11582
33.0	15756	15885	15931	15885	15756	15637	15445	15168	14807	14397
29.0	18075	18201	18247	18201	18075	17937	17727	17415	17052	16653
25.5	20889	21043	21073	21043	20889	20613	20189	19590	18922	18462
22.5	25276	25592	25591	25592	25276	24723	23905	22825	21563	20697
19.5	32362	33134	33154	33134	32362	30935	29617	27938	26003	24278
17.0	44687	46830	47040	46830	44687	41398	38424	34725	30759	28265
15.0	64240	67261	67973	67261	64240	59367	52106	42638	37513	32171
13.0	99976 *	105204 *	107241 *	105204 *	99976 *	89028 *	72547	59327	47159	38441
11.0	154225 *	166292 *	168363 *	166292 *	154225 *	131928 *	105220 *	82013	61099	47100
9.0	235647 *	264486 *	267772 *	264486 *	235647 *	190524 *	150492 *	108824 *	81351	58656
7.0	358247 *	407846 *	416602 *	407846 *	358247 *	285546 *	200485 *	148809 *	103059 *	70940
5.0	525615 *	610429 *	620690 *	610429 *	525615 *	392630 *	282877 *	184537 *	126519 *	85791 *
3.0	666717 *	757385 *	774318 *	757385 *	666717 *	521809 *	342063 *	223531 *	146582 *	96002 *
1.0	755128 *	815242 *	819128 *	815242 *	755128 *	598579 *	386511 *	250018 *	159703 *	102629 *
0.0	769683 *	818192 *	823397 *	818192 *	769683 *	606881 *	402231 *	258808 *	164243 *	104699 *
-1.0	755128 *	815242 *	819128 *	815242 *	755128 *	598579 *	386511 *	250018 *	159703 *	102629 *
-3.0	666717 *	757385 *	774318 *	757385 *	666717 *	521809 *	342063 *	223531 *	146582 *	96002 *
-5.0	525615 *	610429 *	620690 *	610429 *	525615 *	392630 *	282877 *	184537 *	126519 *	85791 *
-7.0	358247 *	407846 *	416602 *	407846 *	358247 *	285546 *	200485 *	148809 *	103059 *	70940
-9.0	235647 *	264486 *	267772 *	264486 *	235647 *	190524 *	150492 *	108824 *	81351	58656
-11.0	154225 *	166292 *	168363 *	166292 *	154225 *	131928 *	105220 *	82013	61099	47100
-13.0	99976 *	105204 *	107241 *	105204 *	99976 *	89028 *	72547	59327	47159	38441
-15.0	64240	67261	67973	67261	64240	59367	52106	42638	37513	32171
-17.0	44687	46830	47040	46830	44687	41398	38424	34725	30759	28265
-19.5	32362	33134	33154	33134	32362	30935	29617	27938	26003	24278
-22.5	25276	25592	25591	25592	25276	24723	23905	22825	21563	20697
-25.5	20889	21043	21073	21043	20889	20613	20189	19590	18922	18462
-29.0	18075	18201	18247	18201	18075	17937	17727	17415	17052	16653
-33.0	15756	15885	15931	15885	15756	15637	15445	15168	14807	14397
-37.5	12864	12968	12982	12968	12864	12762	12590	12344	11993	11582
-42.5	9169	9242	9279	9242	9169	9011	8876	8691	8456	8169
-47.5	5972	5990	5999	5990	5972	5860	5757	5621	5453	5255
-55.0	2900	2891	2886	2891	2900	2876	2848	2813	2768	2714
-65.0	1545	1553	1557	1553	1545	1532	1527	1519	1508	1494
-75.0	844	843	842	843	844	846	834	825	815	803
-85.0	204	205	206	205	204	203	204	204	205	200
-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	199	195	190	183	177	170	161	150	136	123
75.0	791	779	762	741	717	685	645	598	543	483
65.0	1477	1459	1433	1397	1357	1291	1216	1125	1021	913
55.0	2647	2571	2463	2346	2232	2083	1922	1738	1545	1374
47.5	5024	4761	4445	4052	3606	3219	2798	2425	2054	1752
42.5	7832	7454	6946	6254	5551	4692	3860	3108	2494	2056
37.5	11122	10630	9937	9015	8056	6873	5541	4197	3104	2423
33.0	13961	13484	12777	11708	10521	9035	7365	5575	3858	2799
29.0	16269	15729	14915	13870	12739	11127	9079	6910	4699	3223
25.5	17956	17409	16646	15524	14273	12721	10546	8064	5568	3607

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	19756	18801	17867	16774	15548	13866	11710	9027	6256	4043
19.5	22486	20905	19215	17881	16663	14904	12786	9930	6913	4428
17.0	25599	23402	20888	18818	17383	15722	13497	10623	7396	4739
15.0	28690	25583	22447	19724	17957	16291	13995	11128	7770	5004
13.0	32160	28241	24274	20692	18484	16717	14444	11591	8118	5237
11.0	37532	30688	26067	21614	18974	17099	14846	11994	8425	5440
9.0	42422	34527	27976	22917	19614	17432	15186	12330	8683	5610
7.0	51164	38007	29602	24012	20169	17725	15465	12602	8890	5748
5.0	57768	40695	30867	24848	20551	17957	15682	12808	9047	5852
3.0	62459	43764	32222	25425	20789	18113	15831	12931	9220	5960
1.0	65376	45856	32987	25609	20844	18138	15898	12971	9232	5961
0.0	64873	46028	33063	25468	20810	18118	15906	12952	9238	5961
-1.0	65376	45856	32987	25609	20844	18138	15898	12971	9232	5961
-3.0	62459	43764	32222	25425	20789	18113	15831	12931	9220	5960
-5.0	57768	40695	30867	24848	20551	17957	15682	12808	9047	5852
-7.0	51164	38007	29602	24012	20169	17725	15465	12602	8890	5748
-9.0	42422	34527	27976	22917	19614	17432	15186	12330	8683	5610
-11.0	37532	30688	26067	21614	18974	17099	14846	11994	8425	5440
-13.0	32160	28241	24274	20692	18484	16717	14444	11591	8118	5237
-15.0	28690	25583	22447	19724	17957	16291	13995	11128	7770	5004
-17.0	25599	23402	20888	18818	17383	15722	13497	10623	7396	4739
-19.5	22486	20905	19215	17881	16663	14904	12786	9930	6913	4428
-22.5	19756	18801	17867	16774	15548	13866	11710	9027	6256	4043
-25.5	17956	17409	16646	15524	14273	12721	10546	8064	5568	3607
-29.0	16269	15729	14915	13870	12739	11127	9079	6910	4699	3223
-33.0	13961	13484	12777	11708	10521	9035	7365	5575	3858	2799
-37.5	11122	10630	9937	9015	8056	6873	5541	4197	3104	2423
-42.5	7832	7454	6946	6254	5551	4692	3860	3108	2494	2056
-47.5	5024	4761	4445	4052	3606	3219	2798	2425	2054	1752
-55.0	2647	2571	2463	2346	2232	2083	1922	1738	1545	1374
-65.0	1477	1459	1433	1397	1357	1291	1216	1125	1021	913
-75.0	791	779	762	741	717	685	645	598	543	483
-85.0	199	195	190	183	177	170	161	150	136	123
-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	104	76	50	16	0
75.0	389	264	156	48	0
65.0	745	498	276	79	0
55.0	1110	757	404	110	0
47.5	1382	929	498	132	0
42.5	1563	1036	560	146	0
37.5	1751	1137	617	159	0
33.0	1940	1222	663	169	0
29.0	2107	1294	705	177	0
25.5	2262	1356	738	183	0
22.5	2383	1396	763	188	0
19.5	2491	1435	786	192	0
17.0	2585	1463	802	195	0
15.0	2651	1483	813	197	0
13.0	2709	1501	823	199	0
11.0	2760	1515	831	205	0
9.0	2801	1528	838	205	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-40.IES

CANDELA TABULATION - (Cont.)

7.0	2834	1539	844	205	0
5.0	2863	1547	852	205	0
3.0	2895	1555	852	205	0
1.0	2897	1556	852	205	0
0.0	2898	1557	852	205	0
-1.0	2897	1556	852	205	0
-3.0	2895	1555	852	205	0
-5.0	2863	1547	852	205	0
-7.0	2834	1539	844	205	0
-9.0	2801	1528	838	205	0
-11.0	2760	1515	831	205	0
-13.0	2709	1501	823	199	0
-15.0	2651	1483	813	197	0
-17.0	2585	1463	802	195	0
-19.5	2491	1435	786	192	0
-22.5	2383	1396	763	188	0
-25.5	2262	1356	738	183	0
-29.0	2107	1294	705	177	0
-33.0	1940	1222	663	169	0
-37.5	1751	1137	617	159	0
-42.5	1563	1036	560	146	0
-47.5	1382	929	498	132	0
-55.0	1110	757	404	110	0
-65.0	745	498	276	79	0
-75.0	389	264	156	48	0
-85.0	104	76	50	16	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-40.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 47525.39

Total Field Lumens (one side of beam only) = 27466.06

* 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	0.16	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.29	0.35
75	1.60	3.19	3.19	3.16	3.12	3.07	3.01	2.95	2.88	3.48
65	3.65	7.28	7.24	7.18	7.10	7.00	6.88	6.75	6.60	8.01
55	6.77	13.53	13.45	13.30	13.13	12.91	12.64	12.31	11.94	14.33
47.5	10.15	20.27	20.06	19.70	19.27	18.74	18.09	17.33	16.47	19.31
42.5	11.62	23.12	22.80	22.34	21.83	21.16	20.36	19.42	18.35	21.34
37.5	16.93	33.67	33.28	32.75	32.05	31.11	29.94	28.60	27.11	31.61
33	19.80	39.37	38.98	38.47	37.70	36.66	35.38	33.96	32.41	38.10
29	20.79	41.35	40.96	40.44	39.67	38.66	37.49	36.22	34.81	41.15
25.5	20.94	41.66	41.22	40.54	39.55	38.31	37.07	35.86	34.52	40.94
22.5	21.31	42.37	41.71	40.64	39.14	37.30	35.59	34.08	32.47	38.36
19.5	26.84	53.13	51.64	49.61	47.18	44.24	41.36	38.67	35.99	41.65
17	30.49	59.75	56.74	53.15	49.28	44.78	40.71	37.18	33.82	38.15
15	34.89	67.89	63.72	57.95	50.64	43.69	38.35	33.91	30.24	33.38
13	52.95 *	102.49 *	94.99	82.72	68.36	55.99	46.27	38.85	33.58	36.36
11	83.32 *	160.03 *	144.38 *	120.79 *	96.25	74.87	57.74	45.88	37.66	39.51
9	132.03 *	249.82 *	216.45 *	175.15 *	134.70 *	99.98 *	73.95	54.89	42.51	43.12
7	206.63 *	385.46 *	325.12 *	250.54 *	183.58 *	132.60 *	93.56	65.96	48.64	47.05
5	313.06 *	579.04 *	474.64 *	351.87 *	246.35 *	168.86 *	115.10 *	78.52	54.94	50.32
3	420.78 *	779.35 *	640.16 *	466.33 *	311.59 *	204.33 *	135.53 *	89.26	59.93	53.35
1	482.20 *	911.57 *	772.48 *	560.11 *	362.61 *	233.93 *	150.44 *	96.49	63.67	55.98
0	249.47 *	480.71 *	414.81 *	302.06 *	195.70 *	124.91 *	79.15 *	49.89 *	32.52	28.55
-1	249.47 *	480.71 *	414.81 *	302.06 *	195.70 *	124.91 *	79.15 *	49.89 *	32.52	28.55
	482.20 *	911.57 *	772.48 *	560.11 *	362.61 *	233.93 *	150.44 *	96.49	63.67	55.98

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	420.78 *	779.35 *	640.16 *	466.33 *	311.59 *	204.33 *	135.53 *	89.26	59.93	53.35
-5	313.06 *	579.04 *	474.64 *	351.87 *	246.35 *	168.86 *	115.10 *	78.52	54.94	50.32
-7	206.63 *	385.46 *	325.12 *	250.54 *	183.58 *	132.60 *	93.56	65.96	48.64	47.05
-9	132.03 *	249.82 *	216.45 *	175.15 *	134.70 *	99.98 *	73.95	54.89	42.51	43.12
-11	83.32 *	160.03 *	144.38 *	120.79 *	96.25	74.87	57.74	45.88	37.66	39.51
-13	52.95 *	102.49 *	94.99	82.72	68.36	55.99	46.27	38.85	33.58	36.36
-15	34.89	67.89	63.72	57.95	50.64	43.69	38.35	33.91	30.24	33.38
-17	30.49	59.75	56.74	53.15	49.28	44.78	40.71	37.18	33.82	38.15
-19.5	26.84	53.13	51.64	49.61	47.18	44.24	41.36	38.67	35.99	41.65
-22.5	21.31	42.37	41.71	40.64	39.14	37.30	35.59	34.08	32.47	38.36
-25.5	20.94	41.66	41.22	40.54	39.55	38.31	37.07	35.86	34.52	40.94
-29	20.79	41.35	40.96	40.44	39.67	38.66	37.49	36.22	34.81	41.15
-33	19.80	39.37	38.98	38.47	37.70	36.66	35.38	33.96	32.41	38.10
-37.5	16.93	33.67	33.28	32.75	32.05	31.11	29.94	28.60	27.11	31.61
-42.5	11.62	23.12	22.80	22.34	21.83	21.16	20.36	19.42	18.35	21.34
-47.5	10.15	20.27	20.06	19.70	19.27	18.74	18.09	17.33	16.47	19.31
-55	6.77	13.53	13.45	13.30	13.13	12.91	12.64	12.31	11.94	14.33
-65	3.65	7.28	7.24	7.18	7.10	7.00	6.88	6.75	6.60	8.01
-75	1.60	3.19	3.19	3.16	3.12	3.07	3.01	2.95	2.88	3.48
-85	0.16	0.31	0.31	0.31	0.31	0.31	0.30	0.29	0.29	0.35
-90										
Total	4332.74	8190.73	7036.65	5458.18	3998.21	2946.83	2217.81	1714.52	1382.67	1448.83

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.40	0.38	0.41	0.43	0.44	0.42	0.35	0.41	0.34	0.16
85	4.00	3.79	4.14	4.34	4.35	4.16	3.46	3.93	3.17	1.42
75	9.24	8.79	9.60	10.02	10.03	9.58	7.97	9.04	7.21	3.11
65	16.29	15.30	16.50	17.00	16.79	15.83	13.06	14.80	11.83	5.03
55	21.28	19.15	19.79	19.62	18.64	16.98	13.58	15.05	11.92	5.05

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	23.14	20.31	20.22	19.02	17.05	14.70	11.25	12.06	9.34	3.93
42.5										
	34.28	30.13	29.82	27.37	23.37	18.81	13.56	13.92	10.43	4.36
37.5										
	41.69	36.91	36.77	33.85	28.55	21.96	14.76	14.33	10.35	4.26
33										
	45.44	40.77	41.15	38.22	32.38	24.54	15.70	14.39	9.98	4.04
29										
	45.50	41.20	42.17	39.72	33.88	25.76	16.11	14.00	9.34	3.73
25.5										
	42.75	38.89	40.09	38.25	33.03	25.29	15.72	13.18	8.44	3.32
22.5										
	45.90	41.86	43.34	41.72	36.47	28.10	17.47	14.30	8.79	3.42
19.5										
	40.95	36.91	38.31	37.14	32.76	25.41	15.80	12.72	7.58	2.92
17										
	34.92	30.84	31.91	31.07	27.56	21.53	13.41	10.70	6.22	2.37
15										
	37.17	32.08	32.91	32.08	28.63	22.52	14.07	11.15	6.35	2.40
13										
	39.52	33.29	33.77	32.95	29.59	23.40	14.65	11.54	6.45	2.43
11										
	42.04	34.69	34.65	33.71	30.42	24.16	15.16	11.87	6.54	2.45
9										
	44.58	36.19	35.51	34.36	31.10	24.79	15.57	12.14	6.62	2.47
7										
	46.63	37.39	36.20	34.89	31.65	25.28	15.90	12.36	6.68	2.49
5										
	48.35	38.24	36.68	35.29	32.04	25.66	16.19	12.55	6.74	2.50
3										
	49.58	38.68	36.90	35.49	32.25	25.87	16.35	12.66	6.77	2.51
1										
	24.98	19.35	18.46	17.77	16.15	12.94	8.18	6.33	3.39	1.25
0										
	24.98	19.35	18.46	17.77	16.15	12.94	8.18	6.33	3.39	1.25
-1										
	49.58	38.68	36.90	35.49	32.25	25.87	16.35	12.66	6.77	2.51
-3										
	48.35	38.24	36.68	35.29	32.04	25.66	16.19	12.55	6.74	2.50
-5										
	46.63	37.39	36.20	34.89	31.65	25.28	15.90	12.36	6.68	2.49
-7										
	44.58	36.19	35.51	34.36	31.10	24.79	15.57	12.14	6.62	2.47
-9										
	42.04	34.69	34.65	33.71	30.42	24.16	15.16	11.87	6.54	2.45
-11										
	39.52	33.29	33.77	32.95	29.59	23.40	14.65	11.54	6.45	2.43
-13										
	37.17	32.08	32.91	32.08	28.63	22.52	14.07	11.15	6.35	2.40
-15										
	34.92	30.84	31.91	31.07	27.56	21.53	13.41	10.70	6.22	2.37
-17										
	40.95	36.91	38.31	37.14	32.76	25.41	15.80	12.72	7.58	2.92
-19.5										
	45.90	41.86	43.34	41.72	36.47	28.10	17.47	14.30	8.79	3.42

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	42.75	38.89	40.09	38.25	33.03	25.29	15.72	13.18	8.44	3.32
-25.5	45.50	41.20	42.17	39.72	33.88	25.76	16.11	14.00	9.34	3.73
-29	45.44	40.77	41.15	38.22	32.38	24.54	15.70	14.39	9.98	4.04
-33	41.69	36.91	36.77	33.85	28.55	21.96	14.76	14.33	10.35	4.26
-37.5	34.28	30.13	29.82	27.37	23.37	18.81	13.56	13.92	10.43	4.36
-42.5	23.14	20.31	20.22	19.02	17.05	14.70	11.25	12.06	9.34	3.93
-47.5	21.28	19.15	19.79	19.62	18.64	16.98	13.58	15.05	11.92	5.05
-55	16.29	15.30	16.50	17.00	16.79	15.83	13.06	14.80	11.83	5.03
-65	9.24	8.79	9.60	10.02	10.03	9.58	7.97	9.04	7.21	3.11
-75	4.00	3.79	4.14	4.34	4.35	4.16	3.46	3.93	3.17	1.42
-85	0.40	0.38	0.41	0.43	0.44	0.42	0.35	0.41	0.34	0.16
-90										
Total	1477.24	1270.26	1278.62	1228.6	1094.21	875.41	576.52	506.83	328.97	131.24

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.04	0.00		6.71
85				
	0.36	0.01		66.76
75				
	0.74	0.02		153.03
65				
	1.15	0.03		267.92
55				
	1.13	0.03		341.61
47.5				
	0.88	0.02		354.25
42.5				
	0.98	0.03		504.11
37.5				
	0.96	0.02		595.21
33				
	0.91	0.02		639.09
29				
	0.83	0.02		642.87
25.5				
	0.74	0.02		622.70
22.5				
	0.76	0.02		712.48
19.5				
	0.65	0.02		695.21
17				
	0.53	0.01		665.73

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

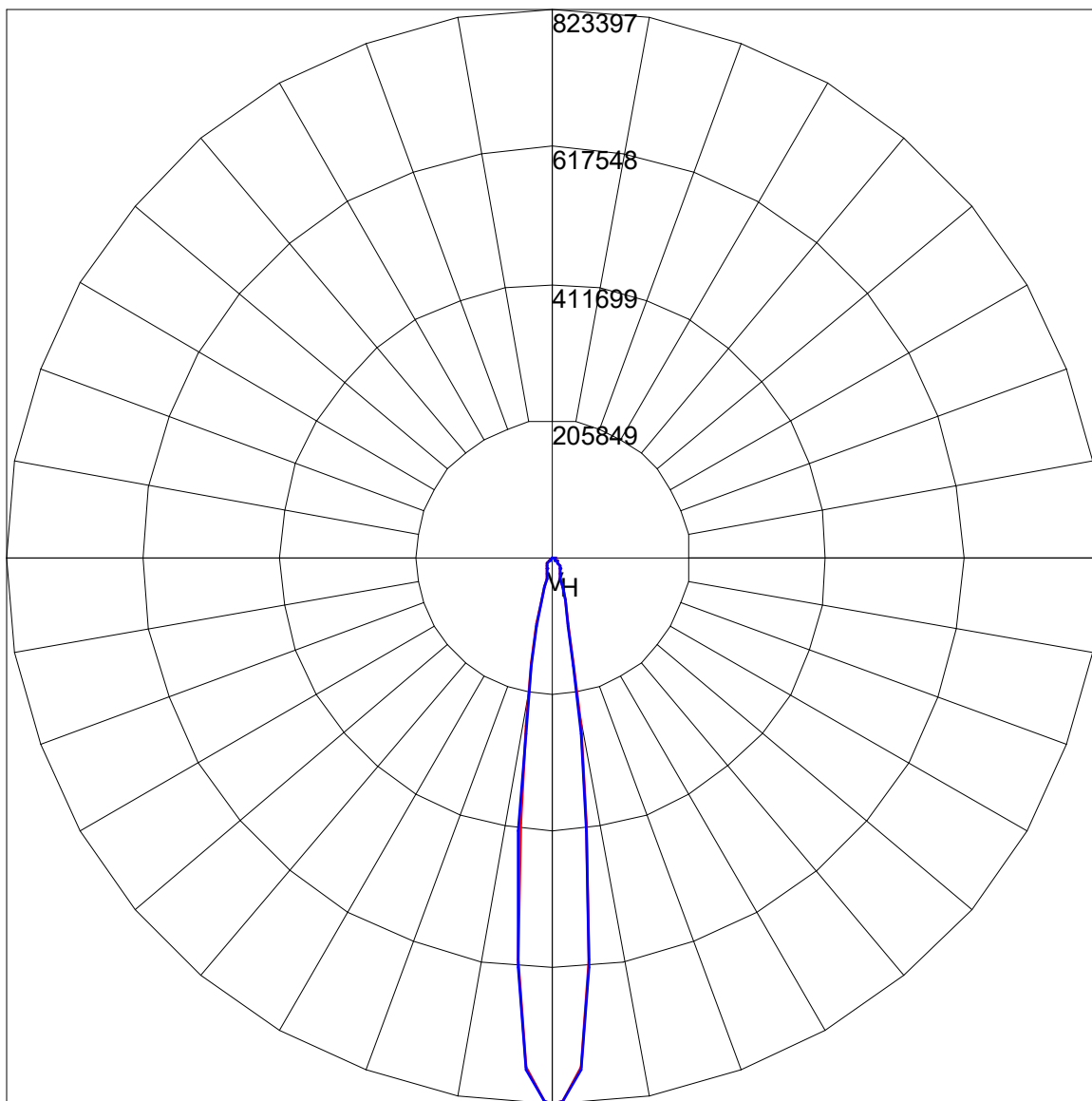
15	0.54	0.01	832.43
13	0.54	0.01	1088.59
11	0.55	0.01	1458.84
9	0.55	0.01	1983.03
7	0.56	0.01	2682.75
5	0.56	0.01	3415.44
3	0.56	0.01	3947.1
1	0.28	0.01	2086.84
0	0.28	0.01	2086.84
-1	0.56	0.01	3947.1
-3	0.56	0.01	3415.44
-5	0.56	0.01	2682.75
-7	0.55	0.01	1983.03
-9	0.55	0.01	1458.84
-11	0.54	0.01	1088.59
-13	0.54	0.01	832.43
-15	0.53	0.01	665.73
-17	0.65	0.02	695.21
-19.5	0.76	0.02	712.48
-22.5	0.74	0.02	622.70
-25.5	0.83	0.02	642.87
-29	0.91	0.02	639.09
-33	0.96	0.02	595.21
-37.5	0.98	0.03	504.11
-42.5	0.88	0.02	354.25
-47.5	1.13	0.03	341.61
-55	1.15	0.03	267.92
-65	0.74	0.02	153.03

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-100L-VNF-40.IES

LUMENS TABULATION - (Cont.)

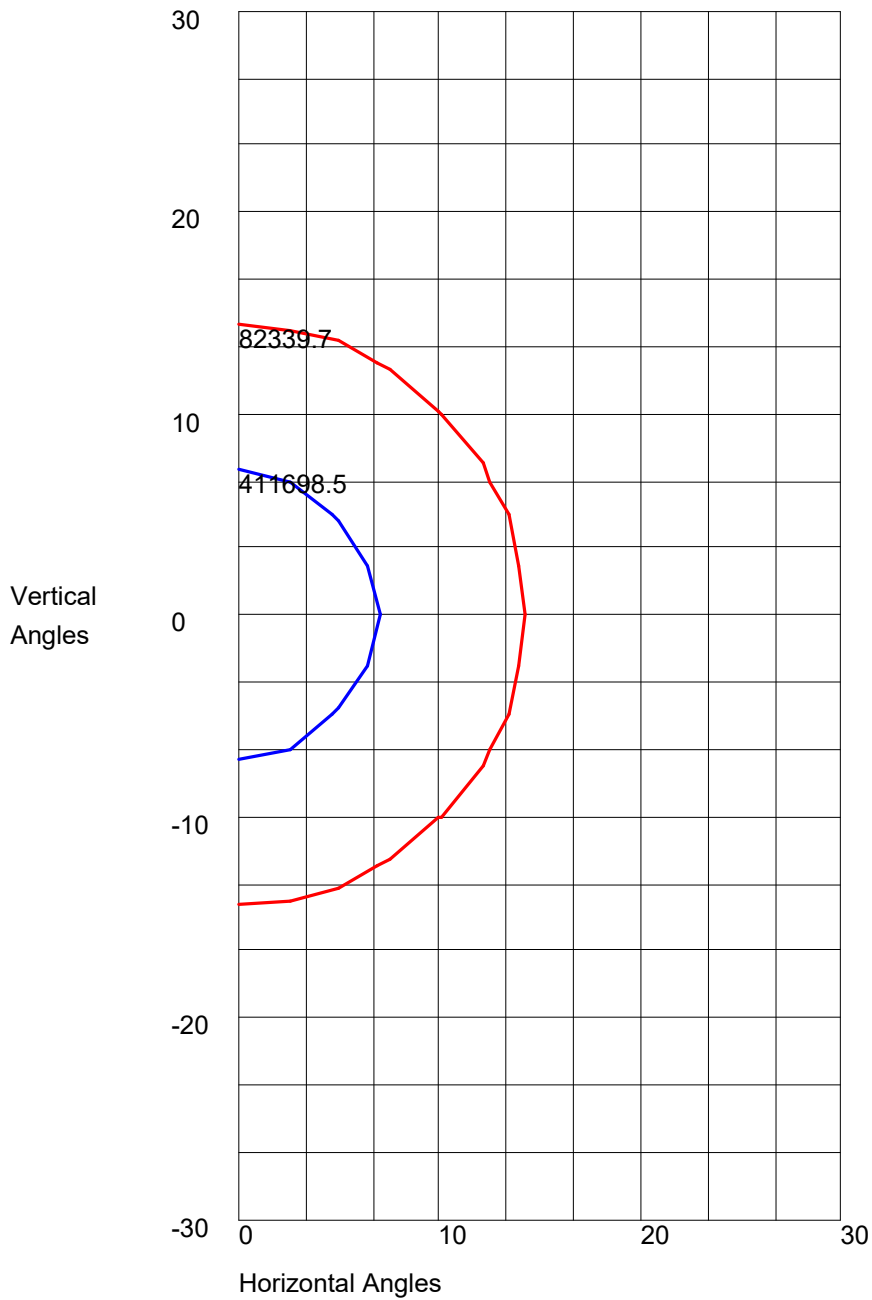
-75	0.36	0.01	66.76
-85	0.04	0.00	6.71
-90			
Total	29.60	0.76	47525.42

AXIAL CANDELA DISPLAY



Maximum Candela = 823397 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 823397 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 411698.5
10% Maximum Candela = 82339.7