



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-NF-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13045
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 11/11/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-85L-NF-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	4 H x 4 V
Maximum Candela	287048
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	24.4
Vertical Beam Angle (50%)	24.4
Horizontal Field Angle (10%)	49.1
Vertical Field Angle (10%)	49.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	32376
Beam Efficiency	N.A.
Field Lumens	57634
Field Efficiency	N.A.
Spill Lumens	24570
Luminaire Lumens	82204
Total Efficiency	N.A.
Total Luminaire Watts	575.7
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	124	85	126
75	663	75	666
65	1480	65	1485
55	3267	55	3282
47.5	5928	47.5	5893
42.5	8212	42.5	8235
37.5	10829	37.5	10820
33	13493	33	13583
29	17965	29	18151
25.5	25600	25.5	25858
22.5	35443	22.5	35926
19.5	49747	19.5	50322
17	66456	17	67357
15	85238	15	86659
13	121455	13	122899
11	173112	11	173552
9	222110	9	221876
7	258036	7	257755
5	278164	5	277696
3	285372	3	285091
1	286953	1	286860
0	286806	0	286806
-1	286953	-1	286860
-3	285372	-3	285091
-5	278164	-5	277696
-7	258036	-7	257755
-9	222110	-9	221876
-11	173112	-11	173552
-13	121455	-13	122899
-15	85238	-15	86659
-17	66456	-17	67357
-19.5	49747	-19.5	50322
-22.5	35443	-22.5	35926
-25.5	25600	-25.5	25858
-29	17965	-29	18151
-33	13493	-33	13583
-37.5	10829	-37.5	10820
-42.5	8212	-42.5	8235
-47.5	5928	-47.5	5893
-55	3267	-55	3282
-65	1480	-65	1485
-75	663	-75	666
-85	124	-85	126
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 287048

Beam Edge = 143524 Cd (50% of Max.)

Field Edge = 28704.8 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	8	24	37	56	73	83	92	99	104
75.0	0	23	88	180	287	363	417	466	504	537
65.0	0	37	178	374	598	763	873	978	1075	1152
55.0	0	56	282	592	947	1253	1487	1758	2021	2249
47.5	0	72	362	757	1248	1776	2206	2699	3171	3637
42.5	0	82	415	865	1491	2207	2809	3520	4261	4966
37.5	0	91	464	971	1761	2714	3515	4541	5606	6570
33.0	0	99	504	1067	2021	3178	4254	5597	6902	8077
29.0	0	104	539	1148	2248	3644	4967	6561	8070	9522
25.5	0	109	567	1217	2454	4046	5608	7385	9127	10662
22.5	0	112	588	1268	2612	4423	6123	8082	9963	11677
19.5	0	115	608	1320	2762	4757	6611	8725	10717	12628
17.0	0	117	621	1359	2888	5016	6973	9198	11316	13389
15.0	0	119	630	1386	2976	5218	7246	9536	11750	14002
13.0	0	120	639	1410	3053	5395	7488	9846	12132	14795
11.0	0	124	646	1431	3119	5546	7698	10118	12488	15474
9.0	0	124	651	1447	3173	5672	7876	10353	12808	16033
7.0	0	124	656	1461	3215	5773	8022	10545	13077	16665
5.0	0	124	663	1470	3244	5847	8133	10693	13283	17278
3.0	0	124	663	1481	3275	5929	8236	10789	13423	17698
1.0	0	124	663	1480	3270	5928	8220	10834	13486	17926
0.0	0	124	663	1480	3267	5928	8212	10829	13493	17965
-1.0	0	124	663	1480	3270	5928	8220	10834	13486	17926
-3.0	0	124	663	1481	3275	5929	8236	10789	13423	17698
-5.0	0	124	663	1470	3244	5847	8133	10693	13283	17278
-7.0	0	124	656	1461	3215	5773	8022	10545	13077	16665
-9.0	0	124	651	1447	3173	5672	7876	10353	12808	16033
-11.0	0	124	646	1431	3119	5546	7698	10118	12488	15474
-13.0	0	120	639	1410	3053	5395	7488	9846	12132	14795
-15.0	0	119	630	1386	2976	5218	7246	9536	11750	14002
-17.0	0	117	621	1359	2888	5016	6973	9198	11316	13389
-19.5	0	115	608	1320	2762	4757	6611	8725	10717	12628
-22.5	0	112	588	1268	2612	4423	6123	8082	9963	11677
-25.5	0	109	567	1217	2454	4046	5608	7385	9127	10662
-29.0	0	104	539	1148	2248	3644	4967	6561	8070	9522
-33.0	0	99	504	1067	2021	3178	4254	5597	6902	8077
-37.5	0	91	464	971	1761	2714	3515	4541	5606	6570
-42.5	0	82	415	865	1491	2207	2809	3520	4261	4966
-47.5	0	72	362	757	1248	1776	2206	2699	3171	3637
-55.0	0	56	282	592	947	1253	1487	1758	2021	2249
-65.0	0	37	178	374	598	763	873	978	1075	1152
-75.0	0	23	88	180	287	363	417	466	504	537
-85.0	0	8	24	37	56	73	83	92	99	104
-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	108	112	115	118	120	121	125	125	125	125
75.0	562	582	599	611	619	628	637	646	653	663
65.0	1219	1267	1317	1354	1379	1402	1424	1442	1456	1467
55.0	2456	2617	2768	2891	2979	3058	3121	3170	3207	3233
47.5	4044	4406	4728	4988	5193	5374	5531	5656	5757	5834
42.5	5599	6109	6605	6975	7237	7472	7677	7856	8002	8111
37.5	7397	8068	8693	9165	9505	9838	10126	10365	10543	10671
33.0	9097	9923	10696	11327	11782	12172	12532	12852	13111	13304
29.0	10629	11635	12605	13378	13997	14795	15480	16053	16664	17240
25.5	12018	13199	14629	16016	17439	18920	20230	21830	23219	24354
22.5	13228	14931	17231	19700	22167	24776	27171	29838 *	32057 *	33814 *
19.5	14673	17272	20906	25261	28954 *	32909 *	36634 *	40549 *	44024 *	46837 *
17.0	16054	19802	25301	30948 *	35686 *	41279 *	46317 *	52044 *	57118 *	61413 *
15.0	17508	22273	28991 *	35639 *	42226 *	48788 *	56269 *	63047 *	71627 *	79176 *
13.0	19008	24872	32854 *	41133 *	48640 *	57698 *	67906 *	79440 *	91332 *	106960 *
11.0	20259	27238	36544 *	46167 *	55842 *	67487 *	82463 *	102280 *	122995 *	144242 *
9.0	21845	29861 *	40521 *	51871 *	62570 *	78431 *	101659 *	129952 *	163232 *	192469 *
7.0	23257	32018 *	43935 *	57079 *	71284 *	90501 *	122502 *	163054 *	203278 *	230147 *
5.0	24372	33656 *	46659 *	61503 *	78981 *	106512 *	144154 *	193340 *	230121 *	257144 *
3.0	25113	34737 *	48923 *	64954 *	83917 *	118181 *	163835 *	212274 *	251299 *	269484 *
1.0	25525	35400 *	49895 *	66643 *	85927 *	123141 *	173162 *	220861 *	257011 *	277403 *
0.0	25600	35443 *	49747 *	66456 *	85238 *	121455 *	173112 *	222110 *	258036 *	278164 *
-1.0	25525	35400 *	49895 *	66643 *	85927 *	123141 *	173162 *	220861 *	257011 *	277403 *
-3.0	25113	34737 *	48923 *	64954 *	83917 *	118181 *	163835 *	212274 *	251299 *	269484 *
-5.0	24372	33656 *	46659 *	61503 *	78981 *	106512 *	144154 *	193340 *	230121 *	257144 *
-7.0	23257	32018 *	43935 *	57079 *	71284 *	90501 *	122502 *	163054 *	203278 *	230147 *
-9.0	21845	29861 *	40521 *	51871 *	62570 *	78431 *	101659 *	129952 *	163232 *	192469 *
-11.0	20259	27238	36544 *	46167 *	55842 *	67487 *	82463 *	102280 *	122995 *	144242 *
-13.0	19008	24872	32854 *	41133 *	48640 *	57698 *	67906 *	79440 *	91332 *	106960 *
-15.0	17508	22273	28991 *	35639 *	42226 *	48788 *	56269 *	63047 *	71627 *	79176 *
-17.0	16054	19802	25301	30948 *	35686 *	41279 *	46317 *	52044 *	57118 *	61413 *
-19.5	14673	17272	20906	25261	28954 *	32909 *	36634 *	40549 *	44024 *	46837 *
-22.5	13228	14931	17231	19700	22167	24776	27171	29838 *	32057 *	33814 *
-25.5	12018	13199	14629	16016	17439	18920	20230	21830	23219	24354
-29.0	10629	11635	12605	13378	13997	14795	15480	16053	16664	17240
-33.0	9097	9923	10696	11327	11782	12172	12532	12852	13111	13304
-37.5	7397	8068	8693	9165	9505	9838	10126	10365	10543	10671
-42.5	5599	6109	6605	6975	7237	7472	7677	7856	8002	8111
-47.5	4044	4406	4728	4988	5193	5374	5531	5656	5757	5834
-55.0	2456	2617	2768	2891	2979	3058	3121	3170	3207	3233
-65.0	1219	1267	1317	1354	1379	1402	1424	1442	1456	1467
-75.0	562	582	599	611	619	628	637	646	653	663
-85.0	108	112	115	118	120	121	125	125	125	125
-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	125	126	126	126	125	125	125	125	125	121
75.0	664	665	666	665	664	663	653	646	637	628
65.0	1480	1483	1485	1483	1480	1467	1456	1442	1424	1402

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CANDELA TABULATION - (Cont.)

55.0	3269	3278	3282	3278	3269	3233	3207	3170	3121	3058
47.5	5910	5899	5893	5899	5910	5834	5757	5656	5531	5374
42.5	8224	8231	8235	8231	8224	8111	8002	7856	7677	7472
37.5	10750	10815	10820	10815	10750	10671	10543	10365	10126	9838
33.0	13431	13546	13583	13546	13431	13304	13111	12852	12532	12172
29.0	17627	18003	18151	18003	17627	17240	16664	16053	15480	14795
25.5	25178	25710	25858	25710	25178	24354	23219	21830	20230	18920
22.5	35026 *	35811 *	35926 *	35811 *	35026 *	33814 *	32057 *	29838 *	27171	24776
19.5	48896 *	50077 *	50322 *	50077 *	48896 *	46837 *	44024 *	40549 *	36634 *	32909 *
17.0	65158 *	67346 *	67357 *	67346 *	65158 *	61413 *	57118 *	52044 *	46317 *	41279 *
15.0	84678 *	87712 *	86659 *	87712 *	84678 *	79176 *	71627 *	63047 *	56269 *	48788 *
13.0	118779 *	124241 *	122899 *	124241 *	118779 *	106960 *	91332 *	79440 *	67906 *	57698 *
11.0	163916 *	173302 *	173552 *	173302 *	163916 *	144242 *	122995 *	102280 *	82463 *	67487 *
9.0	211485 *	220666 *	221876 *	220666 *	211485 *	192469 *	163232 *	129952 *	101659 *	78431 *
7.0	250623 *	257025 *	257755 *	257025 *	250623 *	230147 *	203278 *	163054 *	122502 *	90501 *
5.0	269535 *	277622 *	277696 *	277622 *	269535 *	257144 *	230121 *	193340 *	144154 *	106512 *
3.0	280222 *	284653 *	285091 *	284653 *	280222 *	269484 *	251299 *	212274 *	163835 *	118181 *
1.0	284602 *	287048 *	286860 *	287048 *	284602 *	277403 *	257011 *	220861 *	173162 *	123141 *
0.0	285372 *	286953 *	286806 *	286953 *	285372 *	278164 *	258036 *	222110 *	173112 *	121455 *
-1.0	284602 *	287048 *	286860 *	287048 *	284602 *	277403 *	257011 *	220861 *	173162 *	123141 *
-3.0	280222 *	284653 *	285091 *	284653 *	280222 *	269484 *	251299 *	212274 *	163835 *	118181 *
-5.0	269535 *	277622 *	277696 *	277622 *	269535 *	257144 *	230121 *	193340 *	144154 *	106512 *
-7.0	250623 *	257025 *	257755 *	257025 *	250623 *	230147 *	203278 *	163054 *	122502 *	90501 *
-9.0	211485 *	220666 *	221876 *	220666 *	211485 *	192469 *	163232 *	129952 *	101659 *	78431 *
-11.0	163916 *	173302 *	173552 *	173302 *	163916 *	144242 *	122995 *	102280 *	82463 *	67487 *
-13.0	118779 *	124241 *	122899 *	124241 *	118779 *	106960 *	91332 *	79440 *	67906 *	57698 *
-15.0	84678 *	87712 *	86659 *	87712 *	84678 *	79176 *	71627 *	63047 *	56269 *	48788 *
-17.0	65158 *	67346 *	67357 *	67346 *	65158 *	61413 *	57118 *	52044 *	46317 *	41279 *
-19.5	48896 *	50077 *	50322 *	50077 *	48896 *	46837 *	44024 *	40549 *	36634 *	32909 *
-22.5	35026 *	35811 *	35926 *	35811 *	35026 *	33814 *	32057 *	29838 *	27171	24776
-25.5	25178	25710	25858	25710	25178	24354	23219	21830	20230	18920
-29.0	17627	18003	18151	18003	17627	17240	16664	16053	15480	14795
-33.0	13431	13546	13583	13546	13431	13304	13111	12852	12532	12172
-37.5	10750	10815	10820	10815	10750	10671	10543	10365	10126	9838
-42.5	8224	8231	8235	8231	8224	8111	8002	7856	7677	7472
-47.5	5910	5899	5893	5899	5910	5834	5757	5656	5531	5374
-55.0	3269	3278	3282	3278	3269	3233	3207	3170	3121	3058
-65.0	1480	1483	1485	1483	1480	1467	1456	1442	1424	1402
-75.0	664	665	666	665	664	663	653	646	637	628
-85.0	125	126	126	126	125	125	125	125	125	121
-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	120	118	115	112	108	104	99	92	83	73
75.0	619	611	599	582	562	537	504	466	417	363
65.0	1379	1354	1317	1267	1219	1152	1075	978	873	763
55.0	2979	2891	2768	2617	2456	2249	2021	1758	1487	1253
47.5	5193	4988	4728	4406	4044	3637	3171	2699	2206	1776
42.5	7237	6975	6605	6109	5599	4966	4261	3520	2809	2207
37.5	9505	9165	8693	8068	7397	6570	5606	4541	3515	2714
33.0	11782	11327	10696	9923	9097	8077	6902	5597	4254	3178
29.0	13997	13378	12605	11635	10629	9522	8070	6561	4967	3644
25.5	17439	16016	14629	13199	12018	10662	9127	7385	5608	4046

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CANDELA TABULATION - (Cont.)

22.5	22167	19700	17231	14931	13228	11677	9963	8082	6123	4423
19.5	28954 *	25261	20906	17272	14673	12628	10717	8725	6611	4757
17.0	35686 *	30948 *	25301	19802	16054	13389	11316	9198	6973	5016
15.0	42226 *	35639 *	28991 *	22273	17508	14002	11750	9536	7246	5218
13.0	48640 *	41133 *	32854 *	24872	19008	14795	12132	9846	7488	5395
11.0	55842 *	46167 *	36544 *	27238	20259	15474	12488	10118	7698	5546
9.0	62570 *	51871 *	40521 *	29861 *	21845	16033	12808	10353	7876	5672
7.0	71284 *	57079 *	43935 *	32018 *	23257	16665	13077	10545	8022	5773
5.0	78981 *	61503 *	46659 *	33656 *	24372	17278	13283	10693	8133	5847
3.0	83917 *	64954 *	48923 *	34737 *	25113	17698	13423	10789	8236	5929
1.0	85927 *	66643 *	49895 *	35400 *	25525	17926	13486	10834	8220	5928
0.0	85238 *	66456 *	49747 *	35443 *	25600	17965	13493	10829	8212	5928
-1.0	85927 *	66643 *	49895 *	35400 *	25525	17926	13486	10834	8220	5928
-3.0	83917 *	64954 *	48923 *	34737 *	25113	17698	13423	10789	8236	5929
-5.0	78981 *	61503 *	46659 *	33656 *	24372	17278	13283	10693	8133	5847
-7.0	71284 *	57079 *	43935 *	32018 *	23257	16665	13077	10545	8022	5773
-9.0	62570 *	51871 *	40521 *	29861 *	21845	16033	12808	10353	7876	5672
-11.0	55842 *	46167 *	36544 *	27238	20259	15474	12488	10118	7698	5546
-13.0	48640 *	41133 *	32854 *	24872	19008	14795	12132	9846	7488	5395
-15.0	42226 *	35639 *	28991 *	22273	17508	14002	11750	9536	7246	5218
-17.0	35686 *	30948 *	25301	19802	16054	13389	11316	9198	6973	5016
-19.5	28954 *	25261	20906	17272	14673	12628	10717	8725	6611	4757
-22.5	22167	19700	17231	14931	13228	11677	9963	8082	6123	4423
-25.5	17439	16016	14629	13199	12018	10662	9127	7385	5608	4046
-29.0	13997	13378	12605	11635	10629	9522	8070	6561	4967	3644
-33.0	11782	11327	10696	9923	9097	8077	6902	5597	4254	3178
-37.5	9505	9165	8693	8068	7397	6570	5606	4541	3515	2714
-42.5	7237	6975	6605	6109	5599	4966	4261	3520	2809	2207
-47.5	5193	4988	4728	4406	4044	3637	3171	2699	2206	1776
-55.0	2979	2891	2768	2617	2456	2249	2021	1758	1487	1253
-65.0	1379	1354	1317	1267	1219	1152	1075	978	873	763
-75.0	619	611	599	582	562	537	504	466	417	363
-85.0	120	118	115	112	108	104	99	92	83	73
-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	56	37	24	8	0
75.0	287	180	88	23	0
65.0	598	374	178	37	0
55.0	947	592	282	56	0
47.5	1248	757	362	72	0
42.5	1491	865	415	82	0
37.5	1761	971	464	91	0
33.0	2021	1067	504	99	0
29.0	2248	1148	539	104	0
25.5	2454	1217	567	109	0
22.5	2612	1268	588	112	0
19.5	2762	1320	608	115	0
17.0	2888	1359	621	117	0
15.0	2976	1386	630	119	0
13.0	3053	1410	639	120	0
11.0	3119	1431	646	124	0
9.0	3173	1447	651	124	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	3215	1461	656	124	0
5.0	3244	1470	663	124	0
3.0	3275	1481	663	124	0
1.0	3270	1480	663	124	0
0.0	3267	1480	663	124	0
-1.0	3270	1480	663	124	0
-3.0	3275	1481	663	124	0
-5.0	3244	1470	663	124	0
-7.0	3215	1461	656	124	0
-9.0	3173	1447	651	124	0
-11.0	3119	1431	646	124	0
-13.0	3053	1410	639	120	0
-15.0	2976	1386	630	119	0
-17.0	2888	1359	621	117	0
-19.5	2762	1320	608	115	0
-22.5	2612	1268	588	112	0
-25.5	2454	1217	567	109	0
-29.0	2248	1148	539	104	0
-33.0	2021	1067	504	99	0
-37.5	1761	971	464	91	0
-42.5	1491	865	415	82	0
-47.5	1248	757	362	72	0
-55.0	947	592	282	56	0
-65.0	598	374	178	37	0
-75.0	287	180	88	23	0
-85.0	56	37	24	8	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 41101.81

Total Field Lumens (one side of beam only) = 28817.00

* 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	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.17
75	1.21	2.40	2.40	2.37	2.34	2.30	2.25	2.20	2.15	2.61
65	3.27	6.53	6.49	6.42	6.33	6.22	6.09	5.95	5.80	7.02
55	7.26	14.48	14.36	14.18	13.99	13.73	13.42	13.03	12.59	15.06
47.5	10.48	20.95	20.79	20.48	20.12	19.66	19.09	18.40	17.62	20.85
42.5	10.76	21.51	21.33	20.98	20.56	20.04	19.41	18.68	17.86	21.06
37.5	14.51	28.93	28.68	28.27	27.73	27.02	26.15	25.16	24.07	28.42
33	16.71	33.25	32.92	32.46	31.81	30.96	29.94	28.79	27.52	32.45
29	19.28	38.12	37.44	36.55	35.40	34.15	32.76	31.18	29.56	34.72
25.5	23.38	46.09	44.88	43.19	41.05	38.63	36.20	33.70	31.17	35.83
22.5	28.17 *	55.58 *	53.95 *	51.55	48.39	44.58	40.71	36.93	33.08	36.65
19.5	39.32 *	77.54 *	75.01 *	71.22 *	66.27 *	60.38 *	54.30 *	48.24	42.20	45.07
17	44.76 *	88.08 *	84.44 *	79.29 *	73.05 *	65.82 *	58.52 *	51.29 *	44.23 *	46.29
15	47.07 *	92.81 *	88.25 *	81.59 *	73.55 *	65.30 *	57.40 *	49.65 *	42.31 *	43.71 *
13	64.20 *	126.46 *	118.38 *	105.75 *	92.13 *	79.99 *	68.72 *	58.33 *	49.08 *	50.12 *
11	90.47 *	176.63 *	162.23 *	141.02 *	119.46 *	99.62 *	82.10 *	67.88 *	56.15 *	56.66 *
9	120.23 *	234.21 *	216.38 *	188.71 *	156.39 *	124.90 *	98.33 *	78.12 *	63.38 *	63.32 *
7	145.80 *	286.09 *	268.83 *	239.05 *	198.93 *	155.14 *	117.12 *	89.49 *	71.09 *	69.93 *
5	162.98 *	321.10 *	306.12 *	278.91 *	238.23 *	186.90 *	138.15 *	102.64 *	78.72 *	75.64 *
3	171.35 *	338.52 *	327.07 *	305.37 *	267.56 *	214.06 *	158.71 *	114.55 *	84.72 *	80.29 *
1	174.18 *	345.98 *	337.80 *	319.65 *	283.98 *	231.02 *	172.31 *	121.52 *	88.26 *	83.32 *
0	87.40 *	174.12 *	171.00 *	162.16 *	144.49 *	118.38 *	88.02 *	61.44 *	44.54 *	42.08 *
-1	87.40 *	174.12 *	171.00 *	162.16 *	144.49 *	118.38 *	88.02 *	61.44 *	44.54 *	42.08 *
	174.18 *	345.98 *	337.80 *	319.65 *	283.98 *	231.02 *	172.31 *	121.52 *	88.26 *	83.32 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	171.35 *	338.52 *	327.07 *	305.37 *	267.56 *	214.06 *	158.71 *	114.55 *	84.72 *	80.29 *
-5	162.98 *	321.10 *	306.12 *	278.91 *	238.23 *	186.90 *	138.15 *	102.64 *	78.72 *	75.64 *
-7	145.80 *	286.09 *	268.83 *	239.05 *	198.93 *	155.14 *	117.12 *	89.49 *	71.09 *	69.93 *
-9	120.23 *	234.21 *	216.38 *	188.71 *	156.39 *	124.90 *	98.33 *	78.12 *	63.38 *	63.32 *
-11	90.47 *	176.63 *	162.23 *	141.02 *	119.46 *	99.62 *	82.10 *	67.88 *	56.15 *	56.66 *
-13	64.20 *	126.46 *	118.38 *	105.75 *	92.13 *	79.99 *	68.72 *	58.33 *	49.08 *	50.12 *
-15	47.07 *	92.81 *	88.25 *	81.59 *	73.55 *	65.30 *	57.40 *	49.65 *	42.31 *	43.71 *
-17	44.76 *	88.08 *	84.44 *	79.29 *	73.05 *	65.82 *	58.52 *	51.29 *	44.23 *	46.29
-19.5	39.32 *	77.54 *	75.01 *	71.22 *	66.27 *	60.38 *	54.30 *	48.24	42.20	45.07
-22.5	28.17 *	55.58 *	53.95 *	51.55	48.39	44.58	40.71	36.93	33.08	36.65
-25.5	23.38	46.09	44.88	43.19	41.05	38.63	36.20	33.70	31.17	35.83
-29	19.28	38.12	37.44	36.55	35.40	34.15	32.76	31.18	29.56	34.72
-33	16.71	33.25	32.92	32.46	31.81	30.96	29.94	28.79	27.52	32.45
-37.5	14.51	28.93	28.68	28.27	27.73	27.02	26.15	25.16	24.07	28.42
-42.5	10.76	21.51	21.33	20.98	20.56	20.04	19.41	18.68	17.86	21.06
-47.5	10.48	20.95	20.79	20.48	20.12	19.66	19.09	18.40	17.62	20.85
-55	7.26	14.48	14.36	14.18	13.99	13.73	13.42	13.03	12.59	15.06
-65	3.27	6.53	6.49	6.42	6.33	6.22	6.09	5.95	5.80	7.02
-75	1.21	2.40	2.40	2.37	2.34	2.30	2.25	2.20	2.15	2.61
-85	0.10	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.17	0.21
-90										
Total	2565.72	5059.18	4837.91	4458.76	3923.89	3277.96	2639.8	2114.69	1732.62	1782.58

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.24	0.23	0.25	0.26	0.27	0.26	0.21	0.23	0.18	0.08
85	3.00	2.85	3.11	3.25	3.25	3.09	2.52	2.78	2.13	0.86
75	8.03	7.58	8.22	8.53	8.46	7.97	6.50	7.18	5.47	2.13
65	17.00	15.77	16.76	16.96	16.32	14.86	11.78	12.72	9.55	3.71
55	23.22	21.17	22.01	21.69	20.25	17.82	13.57	14.00	10.11	3.89

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LUMENS TABULATION - (Cont.)

47.5										
	23.30	21.03	21.61	20.93	19.10	16.38	12.11	12.01	8.29	3.12
42.5										
	31.43	28.35	29.06	27.94	25.08	20.97	15.13	14.60	9.67	3.53
37.5										
	35.87	32.38	33.20	31.90	28.51	23.50	16.55	15.55	9.96	3.52
33										
	38.27	34.46	35.37	34.01	30.36	24.94	17.27	15.85	9.86	3.39
29										
	38.86	34.68	35.52	34.15	30.50	25.03	17.21	15.49	9.41	3.16
25.5										
	38.38	33.42	33.82	32.45	29.01	23.79	16.31	14.51	8.61	2.84
22.5										
	45.00	37.63	37.11	35.23	31.47	25.84	17.70	15.60	9.08	2.95
19.5										
	44.40	35.37	33.61	31.36	27.95	22.97	15.72	13.77	7.92	2.54
17										
	41.10	31.57	28.88	26.34	23.39	19.22	13.16	11.50	6.55	2.08
15										
	46.49	34.92	30.95	27.50	24.21	19.90	13.64	11.89	6.71	2.11
13										
	51.83 *	38.14	32.95	28.66	24.95	20.50	14.06	12.23	6.86	2.15
11										
	57.22 *	41.40	34.88	29.66	25.61	21.02	14.42	12.51	6.97	2.17
9										
	62.42 *	44.65	36.87	30.59	26.18	21.46	14.72	12.74	7.07	2.19
7										
	66.65 *	47.29	38.65	31.48	26.63	21.81	14.95	12.92	7.14	2.21
5										
	69.94 *	49.20 *	40.02	32.20	26.96	22.07	15.15	13.07	7.20	2.23
3										
	72.06 *	50.41 *	40.87	32.65	27.16	22.21	15.24	13.15	7.23	2.23
1										
	36.36 *	25.45 *	20.62	16.41	13.61	11.11	7.61	6.57	3.61	1.11
0										
	36.36 *	25.45 *	20.62	16.41	13.61	11.11	7.61	6.57	3.61	1.11
-1										
	72.06 *	50.41 *	40.87	32.65	27.16	22.21	15.24	13.15	7.23	2.23
-3										
	69.94 *	49.20 *	40.02	32.20	26.96	22.07	15.15	13.07	7.20	2.23
-5										
	66.65 *	47.29	38.65	31.48	26.63	21.81	14.95	12.92	7.14	2.21
-7										
	62.42 *	44.65	36.87	30.59	26.18	21.46	14.72	12.74	7.07	2.19
-9										
	57.22 *	41.40	34.88	29.66	25.61	21.02	14.42	12.51	6.97	2.17
-11										
	51.83 *	38.14	32.95	28.66	24.95	20.50	14.06	12.23	6.86	2.15
-13										
	46.49	34.92	30.95	27.50	24.21	19.90	13.64	11.89	6.71	2.11
-15										
	41.10	31.57	28.88	26.34	23.39	19.22	13.16	11.50	6.55	2.08
-17										
	44.40	35.37	33.61	31.36	27.95	22.97	15.72	13.77	7.92	2.54
-19.5										
	45.00	37.63	37.11	35.23	31.47	25.84	17.70	15.60	9.08	2.95

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	38.38	33.42	33.82	32.45	29.01	23.79	16.31	14.51	8.61	2.84
-25.5	38.86	34.68	35.52	34.15	30.50	25.03	17.21	15.49	9.41	3.16
-29	38.27	34.46	35.37	34.01	30.36	24.94	17.27	15.85	9.86	3.39
-33	35.87	32.38	33.20	31.90	28.51	23.50	16.55	15.55	9.96	3.52
-37.5	31.43	28.35	29.06	27.94	25.08	20.97	15.13	14.60	9.67	3.53
-42.5	23.30	21.03	21.61	20.93	19.10	16.38	12.11	12.01	8.29	3.12
-47.5	23.22	21.17	22.01	21.69	20.25	17.82	13.57	14.00	10.11	3.89
-55	17.00	15.77	16.76	16.96	16.32	14.86	11.78	12.72	9.55	3.71
-65	8.03	7.58	8.22	8.53	8.46	7.97	6.50	7.18	5.47	2.13
-75	3.00	2.85	3.11	3.25	3.25	3.09	2.52	2.78	2.13	0.86
-85	0.24	0.23	0.25	0.26	0.27	0.26	0.21	0.23	0.18	0.08
-90										
Total	1702.17	1335.91	1228.69	1108.33	978.41	813.40	571.09	521.75	319.19	108.42

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		4.02
85				
	0.19	0.01		49.24
75				
	0.43	0.01		130.66
65				
	0.73	0.02		268.27
55				
	0.76	0.02		356.96
47.5				
	0.61	0.01		350.69
42.5				
	0.69	0.01		465.42
37.5				
	0.69	0.01		528.47
33				
	0.66	0.01		573.60
29				
	0.61	0.01		618.75
25.5				
	0.55	0.01		663.29
22.5				
	0.56	0.01		837.73
19.5				
	0.48	0.01		871.87
17				
	0.39	0.01		845.84

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

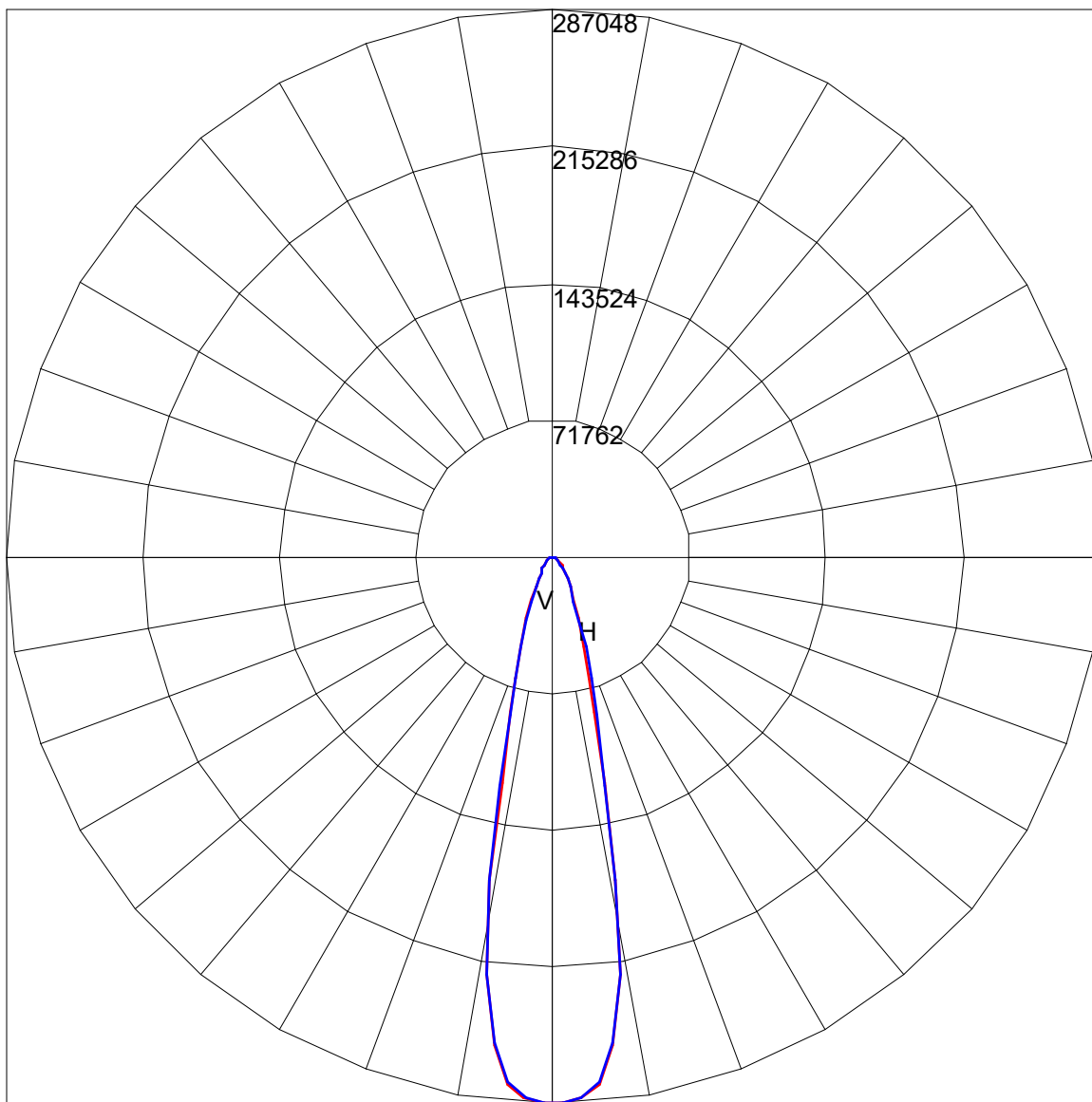
15			
	0.40	0.01	1031.91
13			
	0.40	0.01	1284.95
11			
	0.41	0.01	1590.25
9			
	0.41	0.01	1900.78
7			
	0.41	0.01	2159.55
5			
	0.42	0.01	2340.69
3			
	0.42	0.01	2441.65
1			
	0.21	0.00	1236.31
0			
	0.21	0.00	1236.31
-1			
	0.42	0.01	2441.65
-3			
	0.42	0.01	2340.69
-5			
	0.41	0.01	2159.55
-7			
	0.41	0.01	1900.78
-9			
	0.41	0.01	1590.25
-11			
	0.40	0.01	1284.95
-13			
	0.40	0.01	1031.91
-15			
	0.39	0.01	845.84
-17			
	0.48	0.01	871.87
-19.5			
	0.56	0.01	837.73
-22.5			
	0.55	0.01	663.29
-25.5			
	0.61	0.01	618.75
-29			
	0.66	0.01	573.60
-33			
	0.69	0.01	528.47
-37.5			
	0.69	0.01	465.42
-42.5			
	0.61	0.01	350.69
-47.5			
	0.76	0.02	356.96
-55			
	0.73	0.02	268.27
-65			
	0.43	0.01	130.66

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-85L-NF-40.IES

LUMENS TABULATION - (Cont.)

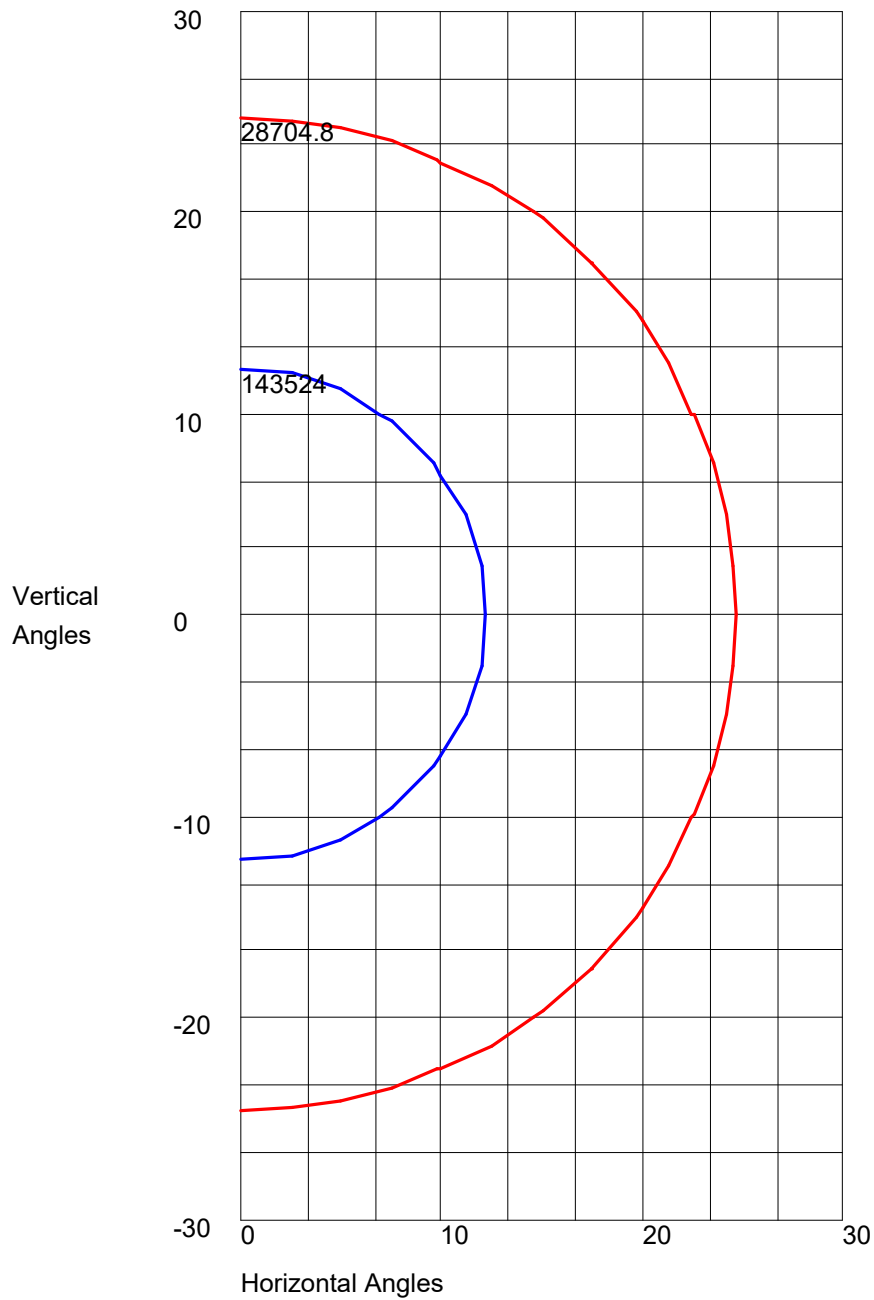
-75	0.19	0.01	49.24
-85	0.02	0.00	4.02
-90			
Total	20.92	0.43	41101.83

AXIAL CANDELA DISPLAY



Maximum Candela = 287048 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 287048 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 143524
10% Maximum Candela = 28704.8