



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-MWF-40-GS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13138
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 12/20/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-85L-MWF-40-GS
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 4000

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	135410
Maximum Candela Angle	0H 3V
Horizontal Beam Angle (50%)	38.8
Vertical Beam Angle (50%)	38.8
Horizontal Field Angle (10%)	76.6
Vertical Field Angle (10%)	75.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	38255
Beam Efficiency	N.A.
Field Lumens	67770
Field Efficiency	N.A.
Spill Lumens	8957
Luminaire Lumens	76727
Total Efficiency	N.A.
Total Luminaire Watts	573
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	1	90	0
85	39	85	0
75	273	75	0
65	817	65	144
55	1913	55	976
47.5	3505	47.5	1818
42.5	8127	42.5	5003
37.5	14894	37.5	10898
33	22307	33	17783
29	30740	29	25724
25.5	40111	25.5	34596
22.5	51131	22.5	45175
19.5	68597	19.5	62498
17	86083	17	80934
15	99572	15	94892
13	109989	13	107182
11	118361	11	116723
9	125032	9	124104
7	130172	7	129789
5	133784	5	134115
3	134950	3	135410
1	135133	1	135330
0	135061	0	135061
-1	135133	-1	135095
-3	134950	-3	134897
-5	133784	-5	133905
-7	130172	-7	130648
-9	125032	-9	125925
-11	118361	-11	119757
-13	109989	-13	111901
-15	99572	-15	101851
-17	86083	-17	88041
-19.5	68597	-19.5	70984
-22.5	51131	-22.5	53023
-25.5	40111	-25.5	41697
-29	30740	-29	32312
-33	22307	-33	24002
-37.5	14894	-37.5	16226
-42.5	8127	-42.5	9545
-47.5	3505	-47.5	4172
-55	1913	-55	2442
-65	817	-65	1131
-75	273	-75	465
-85	39	-85	120
-90	1	-90	27

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CANDELA TABULATION

Maximum Candela = 135410

Beam Edge = 67705 Cd (50% of Max.)

Field Edge = 13541 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	1	1	1	1	1	1	1	1	1	1
85.0	1	3	4	4	5	5	4	2	1	1
75.0	1	6	18	30	36	33	30	25	17	14
65.0	1	10	43	87	126	150	164	174	183	188
55.0	1	15	77	168	277	392	475	566	653	737
47.5	1	20	106	238	437	637	815	952	1084	1285
42.5	1	23	128	294	569	907	1088	1367	1696	1851
37.5	1	26	150	361	744	1149	1485	1918	2354	3244
33.0	1	29	168	428	928	1400	1968	2514	3956	5944
29.0	1	31	186	489	1085	1757	2287	3732	6376	9182
25.5	1	32	200	543	1202	2075	2757	5232	8768	12179
22.5	1	34	211	585	1301	2242	3309	6712	10893	14941 *
19.5	1	35	222	630	1412	2394	4119	8260	13101	17740 *
17.0	1	36	230	664	1514	2551	4746	9508	14872 *	20121 *
15.0	1	36	237	690	1588	2712	5350	10435	16137 *	21891 *
13.0	1	37	243	714	1654	2862	5952	11395	17293 *	23711 *
11.0	1	38	249	736	1713	3000	6488	12256	18437 *	25392 *
9.0	1	38	255	756	1766	3124	6955	13028	19515 *	26913 *
7.0	1	39	260	773	1811	3233	7350	13688 *	20467 *	28227 *
5.0	1	39	266	788	1848	3328	7671	14232 *	21255 *	29294 *
3.0	1	39	269	804	1886	3435	8005	14621 *	21858 *	30063 *
1.0	1	39	272	813	1904	3482	8086	14851 *	22205 *	30586 *
0.0	1	39	273	817	1913	3505	8127	14894 *	22307 *	30740 *
-1.0	1	39	275	820	1928	3524	8174	14912 *	22329 *	30804 *
-3.0	1	39	278	826	1959	3562	8269	14806 *	22229 *	30692 *
-5.0	1	40	281	825	1966	3533	8097	14666 *	22036 *	30267 *
-7.0	1	40	280	824	1972	3507	7921	14446 *	21656 *	29578 *
-9.0	1	40	281	821	1952	3460	7660	14083 *	21074 *	28681 *
-11.0	1	40	281	816	1923	3389	7315	13576 *	20258 *	27509 *
-13.0	1	39	281	809	1885	3296	6888	12911	19306 *	26125 *
-15.0	1	39	280	800	1840	3179	6378	12134	18319 *	24543 *
-17.0	1	39	278	789	1787	3039	5826	11356	17173 *	22975 *
-19.5	1	38	275	770	1711	2930	5209	10243	15529 *	20793 *
-22.5	1	37	269	743	1638	2854	4355	8696	13471	18109 *
-25.5	1	36	261	716	1580	2765	3748	7085	11296	15352 *
-29.0	1	35	251	674	1507	2477	3207	5406	8800	12317
-33.0	1	34	237	623	1370	2121	2973	3936	6155	8864
-37.5	1	31	219	558	1194	1799	2489	3154	3984	5559
-42.5	1	28	196	484	1003	1613	1931	2574	3080	3379
-47.5	1	25	170	416	831	1265	1651	1894	2318	2675
-55.0	1	20	136	326	597	884	1090	1315	1549	1749
-65.0	1	13	89	209	359	489	585	688	784	855
-75.0	1	9	46	109	182	238	281	322	354	376
-85.0	1	4	16	31	51	66	76	86	95	101
-90.0	1	2	6	11	16	19	21	23	25	25

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	-25.5	-22.5	-19.5	-17.0	-15.0	-13.0	-11.0	-9.0	-7.0	-5.0
90.0	1	1	0	0	0	0	0	0	0	0
85.0	1	1	0	0	0	0	0	0	0	0
75.0	9	6	5	3	1	0	0	0	0	0
65.0	190	190	192	190	187	183	178	171	163	153
55.0	787	828	865	889	907	922	937	950	961	969
47.5	1447	1502	1538	1588	1648	1696	1735	1774	1800	1815
42.5	2110	2417	2888	3217	3606	3984	4288	4551	4765	4915
37.5	4346	5438	6640	7566	8209	8871	9431	9884	10220	10442
33.0	7873	9542	11186	12630	13692 *	14602 *	15406 *	16069 *	16613 *	17049 *
29.0	11589	13944 *	16162 *	18001 *	19366 *	20825 *	22039 *	23008 *	23837 *	24605 *
25.5	15397 *	18375 *	21298 *	23652 *	25733 *	27653 *	29244 *	30849 *	32147 *	33265 *
22.5	18895 *	22575 *	26319 *	29490 *	32272 *	34910 *	37090 *	39512 *	41552 *	43252 *
19.5	22559 *	27002 *	31687 *	36275 *	40160 *	44154 *	47665 *	51715 *	55321 *	58061 *
17.0	25571 *	30744 *	36760 *	42684 *	47583 *	54201 *	60025 *	66090 *	71592 *	76499 *
15.0	27994 *	33914 *	41022 *	48040 *	55758 *	63501 *	72208 *	79472 *	85114 *	90103 *
13.0	30327 *	37076 *	45543 *	55046 *	63880 *	74423 *	83725 *	91697 *	98007 *	102392 *
11.0	32543 *	40028 *	50038 *	61790 *	73014 *	84105 *	93996 *	102032 *	108476 *	112822 *
9.0	34828 *	43399 *	55651 *	69546 *	81708 *	92531 *	102408 *	110883 *	116125 *	120388 *
7.0	36805 *	46405 *	60585 *	76268 *	88775 *	100061 *	109422 *	116590 *	121866 *	125617 *
5.0	38230 *	48669 *	64363 *	81553 *	94004 *	104896 *	113963 *	120711 *	125998 *	129591 *
3.0	39273 *	50204 *	67068 *	84588 *	97559 *	108118 *	116509 *	123129 *	128416 *	132191 *
1.0	39934 *	51094 *	68467 *	85985 *	99680 *	109908 *	118059 *	124567 *	129780 *	133674 *
0.0	40111 *	51131 *	68597 *	86083 *	99572 *	109989 *	118361 *	125032 *	130172 *	133784 *
-1.0	40239 *	51627 *	69152 *	86578 *	99787 *	110011 *	118189 *	124697 *	129866 *	133695 *
-3.0	40089 *	51409 *	68385 *	85551 *	98086 *	108611 *	117056 *	123844 *	129199 *	132443 *
-5.0	39330 *	50107 *	65891 *	82619 *	94822 *	105722 *	115276 *	121865 *	126721 *	130307 *
-7.0	38178 *	48175 *	62624 *	77935 *	89975 *	101416 *	110966 *	117811 *	123217 *	126851 *
-9.0	36651 *	45699 *	58393 *	72357 *	84741 *	95826 *	105018 *	112610 *	117973 *	122146 *
-11.0	34808 *	42784 *	53460 *	66227 *	77793 *	88283 *	97530 *	105229 *	111297 *	115394 *
-13.0	33001 *	40147 *	49201 *	59777 *	69279 *	79297 *	88185 *	96118 *	102436 *	106517 *
-15.0	30953 *	37263 *	44927 *	52680 *	61182 *	69205 *	77525 *	84872 *	90879 *	95856 *
-17.0	28777 *	34346 *	40914 *	47506 *	52939 *	59926 *	66355 *	72897 *	78712 *	83643 *
-19.5	26054 *	30762 *	36182 *	41080 *	45219 *	49620 *	53987 *	59032 *	63680 *	67479 *
-22.5	22494 *	26421 *	30721 *	34508 *	37487 *	40422 *	43117 *	46295 *	49099 *	51171 *
-25.5	19050 *	22386 *	25922 *	28911 *	31175 *	33275 *	35147 *	37253 *	39093 *	40380 *
-29.0	15278 *	18138 *	20951 *	23128 *	24738 *	26389 *	27828 *	29091 *	30250 *	31254 *
-33.0	11419	13650 *	15731 *	17432 *	18670 *	19728 *	20712 *	21568 *	22353 *	23023 *
-37.5	7309	8895	10548	11859	12780	13573 *	14262 *	14849 *	15377 *	15795 *
-42.5	4018	4714	5678	6399	7012	7594	8104	8533	8876	9136
-47.5	2968	3110	3239	3389	3577	3743	3887	4009	4107	4178
-55.0	1821	1875	1952	2065	2152	2236	2303	2352	2389	2413
-65.0	916	956	998	1029	1050	1069	1084	1097	1107	1114
-75.0	394	409	422	432	440	445	450	454	458	463
-85.0	106	108	111	112	113	114	117	117	117	117
-90.0	26	26	27	27	27	27	28	28	28	28

Vert. Angles	Horizontal Angles									
	-3.0	-1.0	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
65.0	151	146	144	146	151	153	163	171	178	183

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CANDELA TABULATION - (Cont.)

55.0	978	977	976	977	978	969	961	950	937	922
47.5	1834	1823	1818	1823	1834	1815	1800	1774	1735	1697
42.5	5072	5026	5003	5026	5072	4915	4765	4551	4288	3984
37.5	10556	10825	10898	10825	10556	10442	10220	9884	9431	8871
33.0	17343 *	17671 *	17783 *	17671 *	17343 *	17049 *	16613 *	16069 *	15406 *	14602 *
29.0	25116 *	25568 *	25724 *	25568 *	25116 *	24605 *	23837 *	23008 *	22039 *	20825 *
25.5	34050 *	34499 *	34596 *	34499 *	34050 *	33265 *	32147 *	30849 *	29244 *	27653 *
22.5	44687 *	45359 *	45175 *	45359 *	44687 *	43252 *	41552 *	39512 *	37090 *	34910 *
19.5	61184 *	62667 *	62498 *	62667 *	61184 *	58061 *	55321 *	51715 *	47665 *	44154 *
17.0	79758 *	81130 *	80934 *	81130 *	79758 *	76499 *	71592 *	66090 *	60025 *	54201 *
15.0	93430 *	95259 *	94892 *	95259 *	93430 *	90103 *	85114 *	79472 *	72208 *	63501 *
13.0	105509 *	107234 *	107182 *	107234 *	105509 *	102392 *	98007 *	91697 *	83725 *	74423 *
11.0	115150 *	116645 *	116723 *	116645 *	115150 *	112822 *	108476 *	102032 *	93996 *	84105 *
9.0	122698 *	123890 *	124104 *	123890 *	122698 *	120388 *	116125 *	110883 *	102408 *	92531 *
7.0	128483 *	129452 *	129789 *	129452 *	128483 *	125617 *	121866 *	116590 *	109422 *	100061 *
5.0	132086 *	133664 *	134115 *	133664 *	132086 *	129591 *	125998 *	120711 *	113963 *	104896 *
3.0	134162 *	134897 *	135410 *	134897 *	134162 *	132191 *	128416 *	123129 *	116509 *	108118 *
1.0	134899 *	135234 *	135330 *	135234 *	134899 *	133674 *	129780 *	124567 *	118059 *	109908 *
0.0	134950 *	135133 *	135061 *	135133 *	134950 *	133784 *	130172 *	125032 *	118361 *	109989 *
-1.0	134828 *	135131 *	135095 *	135131 *	134828 *	133695 *	129866 *	124697 *	118189 *	110011 *
-3.0	134191 *	134673 *	134897 *	134673 *	134191 *	132443 *	129199 *	123844 *	117056 *	108611 *
-5.0	132514 *	133685 *	133905 *	133685 *	132514 *	130307 *	126721 *	121865 *	115276 *	105722 *
-7.0	129392 *	130273 *	130648 *	130273 *	129392 *	126851 *	123217 *	117811 *	110966 *	101416 *
-9.0	124301 *	125522 *	125925 *	125522 *	124301 *	122146 *	117973 *	112610 *	105018 *	95826 *
-11.0	117658 *	119279 *	119757 *	119279 *	117658 *	115394 *	111297 *	105229 *	97530 *	88283 *
-13.0	109444 *	111307 *	111901 *	111307 *	109444 *	106517 *	102436 *	96118 *	88185 *	79297 *
-15.0	99233 *	101397 *	101851 *	101397 *	99233 *	95856 *	90879 *	84872 *	77525 *	69205 *
-17.0	86858 *	88270 *	88041 *	88270 *	86858 *	83643 *	78712 *	72897 *	66355 *	59926 *
-19.5	70196 *	71320 *	70984 *	71320 *	70196 *	67479 *	63680 *	59032 *	53987 *	49620 *
-22.5	52338 *	53006 *	53023 *	53006 *	52338 *	51171 *	49099 *	46295 *	43117 *	40422 *
-25.5	41198 *	41628 *	41697 *	41628 *	41198 *	40380 *	39093 *	37253 *	35147 *	33275 *
-29.0	31934 *	32265 *	32312 *	32265 *	31934 *	31254 *	30250 *	29091 *	27828 *	26389 *
-33.0	23517 *	23884 *	24002 *	23884 *	23517 *	23023 *	22353 *	21568 *	20712 *	19728 *
-37.5	16093 *	16231 *	16226 *	16231 *	16093 *	15795 *	15377 *	14849 *	14262 *	13573 *
-42.5	9423	9504	9545	9504	9423	9136	8876	8533	8104	7594
-47.5	4241	4195	4172	4195	4241	4178	4107	4009	3887	3743
-55.0	2441	2442	2442	2442	2441	2413	2389	2352	2303	2236
-65.0	1125	1129	1131	1129	1125	1114	1107	1097	1084	1069
-75.0	464	465	465	465	464	463	458	454	450	445
-85.0	118	119	120	119	118	117	117	117	117	114
-90.0	28	27	27	27	28	28	28	28	28	27

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	1	1	1	1	1	1	1
85.0	0	0	0	1	1	1	1	2	4	5
75.0	1	3	5	6	9	14	17	25	30	33
65.0	187	190	192	190	190	188	183	174	164	150
55.0	907	889	865	828	787	737	653	566	475	392
47.5	1648	1588	1538	1502	1447	1285	1084	952	815	637
42.5	3606	3217	2888	2417	2110	1851	1696	1367	1088	907
37.5	8209	7566	6640	5438	4346	3244	2354	1918	1485	1149
33.0	13692 *	12630 *	11186 *	9542 *	7873 *	5944 *	3956 *	2514 *	1968 *	1400 *
29.0	19366 *	18001 *	16162 *	13944 *	11589 *	9182 *	6376 *	3732 *	2287 *	1757 *
25.5	25733 *	23652 *	21298 *	18375 *	15397 *	12179 *	8768 *	5232 *	2757 *	2075 *

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CANDELA TABULATION - (Cont.)

22.5	32272 *	29490 *	26319 *	22575 *	18895 *	14941 *	10893	6712	3309	2242
19.5	40160 *	36275 *	31687 *	27002 *	22559 *	17740 *	13101	8260	4119	2394
17.0	47583 *	42684 *	36760 *	30744 *	25571 *	20121 *	14872 *	9508	4746	2551
15.0	55758 *	48040 *	41022 *	33914 *	27994 *	21891 *	16137 *	10435	5350	2712
13.0	63880 *	55046 *	45543 *	37076 *	30327 *	23711 *	17293 *	11395	5952	2862
11.0	73014 *	61790 *	50038 *	40028 *	32543 *	25392 *	18437 *	12256	6488	3000
9.0	81708 *	69546 *	55651 *	43399 *	34828 *	26913 *	19515 *	13028	6955	3124
7.0	88775 *	76268 *	60585 *	46405 *	36805 *	28227 *	20467 *	13688 *	7350	3233
5.0	94004 *	81553 *	64363 *	48669 *	38230 *	29294 *	21255 *	14232 *	7671	3328
3.0	97559 *	84588 *	67068 *	50204 *	39273 *	30063 *	21858 *	14621 *	8005	3435
1.0	99680 *	85985 *	68467 *	51094 *	39934 *	30586 *	22205 *	14851 *	8086	3482
0.0	99572 *	86083 *	68597 *	51131 *	40111 *	30740 *	22307 *	14894 *	8127	3505
-1.0	99787 *	86578 *	69152 *	51627 *	40239 *	30804 *	22329 *	14912 *	8174	3524
-3.0	98086 *	85551 *	68385 *	51409 *	40089 *	30692 *	22229 *	14806 *	8269	3562
-5.0	94822 *	82619 *	65891 *	50107 *	39330 *	30267 *	22036 *	14666 *	8097	3533
-7.0	89975 *	77935 *	62624 *	48175 *	38178 *	29578 *	21656 *	14446 *	7921	3507
-9.0	84741 *	72357 *	58393 *	45699 *	36651 *	28681 *	21074 *	14083 *	7660	3460
-11.0	77793 *	66227 *	53460 *	42784 *	34808 *	27509 *	20258 *	13576 *	7315	3389
-13.0	69279 *	59777 *	49201 *	40147 *	33001 *	26125 *	19306 *	12911	6888	3296
-15.0	61182 *	52680 *	44927 *	37263 *	30953 *	24543 *	18319 *	12134	6378	3179
-17.0	52939 *	47506 *	40914 *	34346 *	28777 *	22975 *	17173 *	11356	5826	3039
-19.5	45219 *	41080 *	36182 *	30762 *	26054 *	20793 *	15529 *	10243	5209	2930
-22.5	37487 *	34508 *	30721 *	26421 *	22494 *	18109 *	13471	8696	4355	2854
-25.5	31175 *	28911 *	25922 *	22386 *	19050 *	15352 *	11296	7085	3748	2765
-29.0	24738 *	23128 *	20951 *	18138 *	15278 *	12317	8800	5406	3207	2477
-33.0	18670 *	17432 *	15731 *	13650 *	11419	8864	6155	3936	2973	2121
-37.5	12780	11859	10548	8895	7309	5559	3984	3154	2489	1799
-42.5	7012	6399	5678	4714	4018	3379	3080	2574	1931	1613
-47.5	3577	3389	3239	3110	2968	2675	2318	1894	1651	1265
-55.0	2152	2065	1952	1875	1821	1749	1549	1315	1090	884
-65.0	1050	1029	998	956	916	855	784	688	585	489
-75.0	440	432	422	409	394	376	354	322	281	238
-85.0	113	112	111	108	106	101	95	86	76	66
-90.0	27	27	27	26	26	25	25	23	21	19

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	1	1	1	1	1
85.0	5	4	4	3	1
75.0	36	30	18	6	1
65.0	126	87	43	10	1
55.0	277	168	77	15	1
47.5	437	238	106	20	1
42.5	569	294	128	23	1
37.5	744	361	150	26	1
33.0	928	428	168	29	1
29.0	1085	489	186	31	1
25.5	1202	543	200	32	1
22.5	1301	585	211	34	1
19.5	1412	630	222	35	1
17.0	1514	664	230	36	1
15.0	1588	690	237	36	1
13.0	1654	714	243	37	1
11.0	1713	736	249	38	1
9.0	1766	756	255	38	1

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

CANDELA TABULATION - (Cont.)

7.0	1811	773	260	39	1
5.0	1848	788	266	39	1
3.0	1886	804	269	39	1
1.0	1904	813	272	39	1
0.0	1913	817	273	39	1
-1.0	1928	820	275	39	1
-3.0	1959	826	278	39	1
-5.0	1966	825	281	40	1
-7.0	1972	824	280	40	1
-9.0	1952	821	281	40	1
-11.0	1923	816	281	40	1
-13.0	1885	809	281	39	1
-15.0	1840	800	280	39	1
-17.0	1787	789	278	39	1
-19.5	1711	770	275	38	1
-22.5	1638	743	269	37	1
-25.5	1580	716	261	36	1
-29.0	1507	674	251	35	1
-33.0	1370	623	237	34	1
-37.5	1194	558	219	31	1
-42.5	1003	484	196	28	1
-47.5	831	416	170	25	1
-55.0	597	326	136	20	1
-65.0	359	209	89	13	1
-75.0	182	109	46	9	1
-85.0	51	31	16	4	1
-90.0	16	11	6	2	1

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 38363.3

Total Field Lumens (one side of beam only) = 33885.01

* 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	0.00	0.00	0.01	0.01
65	0.22	0.45	0.46	0.48	0.50	0.52	0.54	0.55	0.56	0.71
55	1.71	3.43	3.42	3.40	3.39	3.35	3.31	3.25	3.18	3.86
47.5	3.19	6.41	6.38	6.30	6.20	6.07	5.91	5.73	5.53	6.62
42.5	5.20	10.47	10.36	10.07	9.72	9.26	8.72	8.08	7.36	8.34
37.5	12.09	23.96	23.54	22.98	22.19	21.11	19.79	18.23	16.54	18.36
33	19.59 *	38.63 *	37.87 *	37.03 *	35.83	34.28	32.39	30.17	27.73	30.93
29	26.42 *	52.18 *	51.12 *	49.74 *	47.98 *	45.91 *	43.42 *	40.48 *	37.30 *	41.93 *
25.5	32.09 *	63.52 *	62.23 *	60.36 *	57.98 *	55.19 *	52.02 *	48.40 *	44.45 *	50.06 *
22.5	36.47 *	72.42 *	70.76 *	68.26 *	65.18 *	61.51 *	57.61 *	53.45 *	48.82 *	54.65 *
19.5	49.28 *	97.67 *	94.43 *	90.06 *	85.11 *	79.19 *	73.21 *	67.16 *	60.70 *	67.13 *
17	54.68 *	108.35 *	104.64 *	99.01 *	92.27 *	84.55 *	76.74 *	68.75 *	61.01 *	66.63 *
15	53.64 *	106.42 *	103.25 *	97.94 *	91.18 *	83.33 *	74.47 *	65.33 *	56.82 *	60.93 *
13	61.62 *	122.20 *	118.94 *	113.79 *	106.87 *	98.12 *	87.55 *	76.12 *	65.21 *	68.58 *
11	68.20 *	135.32 *	132.44 *	127.75 *	120.72 *	111.43 *	100.18 *	87.31 *	74.29 *	76.81 *
9	73.31 *	145.63 *	143.14 *	138.69 *	131.97 *	122.79 *	111.15 *	97.93 *	83.76 *	85.71 *
7	77.25 *	153.59 *	151.07 *	146.62 *	140.40 *	131.78 *	120.50 *	107.31 *	92.61 *	94.75 *
5	80.27 *	159.42 *	156.72 *	152.40 *	146.34 *	138.19 *	127.62 *	114.60 *	99.73 *	102.25 *
3	81.95 *	162.80 *	160.45 *	156.37 *	150.29 *	142.28 *	132.13 *	119.57 *	104.74 *	107.60 *
1	82.38 *	164.14 *	162.54 *	158.76 *	152.60 *	144.67 *	134.85 *	122.73 *	107.70 *	110.69 *
0	41.18 *	82.23 *	81.63 *	79.89 *	76.85 *	72.90 *	67.98 *	61.94 *	54.36 *	55.89 *
-1	41.15 *	82.20 *	81.63 *	79.90 *	76.88 *	72.94 *	68.01 *	61.97 *	54.46 *	56.12 *
	82.21 *	164.03 *	162.61 *	159.10 *	153.11 *	145.12 *	135.23 *	123.10 *	108.34 *	111.97 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	81.81 *	162.88 *	160.88 *	157.12 *	151.31 *	143.40 *	133.08 *	120.36 *	105.72 *	109.36 *
-5	80.49 *	160.08 *	157.72 *	153.62 *	147.69 *	139.76 *	129.12 *	115.84 *	101.12 *	104.52 *
-7	78.03 *	155.10 *	152.75 *	148.49 *	142.26 *	133.91 *	123.12 *	109.93 *	95.16 *	98.10 *
-9	74.70 *	148.18 *	145.70 *	141.41 *	134.86 *	126.11 *	115.20 *	102.45 *	88.17 *	90.56 *
-11	70.40 *	139.33 *	136.44 *	131.97 *	125.20 *	116.11 *	105.26 *	93.00 *	79.96 *	82.68 *
-13	64.95 *	128.28 *	124.90 *	119.87 *	112.90 *	104.00 *	93.62 *	82.45 *	71.13 *	74.70 *
-15	57.81 *	114.39 *	111.09 *	105.75 *	98.74 *	90.49 *	81.34 *	71.89 *	62.75 *	67.27 *
-17	60.66 *	120.49 *	117.05 *	111.14 *	103.43 *	94.59 *	85.62 *	76.73 *	68.35 *	74.89 *
-19.5	56.73 *	112.72 *	109.93 *	105.16 *	98.68 *	91.09 *	83.64 *	76.58 *	69.52 *	77.28 *
-22.5	43.26 *	85.92 *	84.36 *	81.68 *	77.70 *	72.81 *	67.91 *	63.11 *	58.01 *	65.12 *
-25.5	39.42 *	78.32 *	76.98 *	74.74 *	71.62 *	67.89 *	63.94 *	59.78 *	55.32 *	62.59 *
-29	34.26 *	67.95 *	66.68 *	64.76 *	62.30 *	59.51 *	56.41 *	52.92 *	49.17 *	55.86 *
-33	27.53 *	54.61 *	53.62 *	52.18 *	50.32 *	48.18 *	45.77 *	43.06 *	40.02 *	45.21 *
-37.5	19.61	39.00	38.32	37.25	35.92	34.31	32.43	30.26	27.85	31.17
-42.5	10.44	20.82	20.49	19.92	19.25	18.40	17.38	16.20	14.92	16.91
-47.5	7.57	15.20	15.12	14.87	14.54	14.12	13.60	12.98	12.28	14.43
-55	5.44	10.86	10.78	10.64	10.47	10.25	9.97	9.62	9.22	10.93
-65	2.43	4.84	4.81	4.76	4.70	4.63	4.54	4.44	4.32	5.21
-75	0.89	1.77	1.77	1.75	1.73	1.71	1.68	1.64	1.61	1.95
-85	0.11	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.20	0.25
-90										
Total	1800.64	3576.42	3509.26	3396.15	3237.42	3035.97	2797.16	2525.65	2230.00	2369.51

Vert. Horizontal Angles

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
90	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.01
85	0.03	0.04	0.06	0.09	0.13	0.18	0.19	0.28	0.29	0.15
75	0.84	0.82	0.95	1.05	1.12	1.15	1.01	1.23	1.06	0.46
65	4.43	4.16	4.51	4.60	4.41	4.02	3.18	3.38	2.50	0.98
55	7.57	7.14	7.56	7.36	6.83	6.14	4.68	4.67	3.19	1.15

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	8.90	7.80	7.93	7.72	7.13	6.16	4.64	4.55	2.92	1.00
42.5	18.54	14.93	13.68	11.94	10.26	8.54	6.23	6.02	3.74	1.21
37.5	31.48	25.54	22.82	18.21	13.52	10.35	7.27	6.79	4.21	1.30
33	43.36	35.85	32.78	26.58	18.55	12.25	7.98	7.39	4.46	1.32
29	52.08 *	43.32 *	40.09	33.35	23.61	14.30	8.36	7.65	4.42	1.29
25.5	56.66 *	47.11 *	43.65 *	36.64	26.53	15.75	8.38	7.31	4.14	1.20
22.5	68.83 *	56.99 *	52.69 *	44.39 *	32.71	19.60	9.74	7.88	4.48	1.29
19.5	67.28 *	55.24 *	50.93 *	42.97 *	31.99	19.42	9.29	7.03	4.01	1.14
17	60.75 *	49.34 *	45.29 *	38.13 *	28.51	17.52	8.27	5.98	3.39	0.95
15	67.20 *	53.97 *	49.24 *	41.26 *	30.92 *	19.32	9.08	6.30	3.53	0.98
13	73.66 *	58.42 *	53.06 *	44.29 *	33.23 *	21.05	9.85	6.59	3.66	1.01
11	80.66 *	62.94 *	56.71 *	47.12 *	35.39 *	22.59	10.53	6.86	3.78	1.04
9	87.88 *	67.38 *	60.07 *	49.66 *	37.32 *	23.92	11.12	7.10	3.88	1.06
7	93.85 *	71.00 *	62.81 *	51.82 *	38.97 *	25.04	11.62	7.30	3.97	1.09
5	98.23 *	73.61 *	64.85 *	53.50 *	40.27 *	25.97	12.08	7.50	4.05	1.11
3	101.02 *	75.34 *	66.27 *	54.67 *	41.15 *	26.57	12.39	7.65	4.11	1.12
1	51.03 *	38.04 *	33.49 *	27.63 *	20.78 *	13.40	6.24	3.86	2.07	0.57
0	51.29 *	38.21 *	33.62 *	27.72 *	20.83 *	13.44	6.28	3.88	2.08	0.57
-1	102.61 *	76.53 *	67.20 *	55.37 *	41.56 *	26.92	12.67	7.84	4.21	1.14
-3	100.57 *	75.52 *	66.52 *	54.94 *	41.26 *	26.73	12.63	7.87	4.24	1.15
-5	96.74 *	73.37 *	65.08 *	54.06 *	40.74 *	26.32	12.41	7.84	4.25	1.15
-7	91.66 *	70.41 *	63.06 *	52.73 *	39.87 *	25.72	12.14	7.78	4.24	1.15
-9	85.45 *	66.76 *	60.49 *	50.92 *	38.61 *	24.86	11.75	7.66	4.19	1.14
-11	79.16 *	62.92 *	57.55 *	48.66 *	36.96 *	23.73	11.24	7.50	4.13	1.14
-13	73.17 *	59.00 *	54.31 *	46.10 *	35.07 *	22.34	10.63	7.29	4.06	1.13
-15	67.16 *	54.82 *	50.82 *	43.34 *	33.00 *	20.82	9.92	7.03	3.97	1.12
-17	75.82 *	62.57 *	58.40 *	49.91 *	37.98 *	23.79	11.44	8.46	4.81	1.37
-19.5	79.39 *	66.19 *	62.16 *	53.18 *	40.24	24.93	12.39	9.79	5.55	1.61

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	67.47 *	56.57 *	53.31 *	45.60 *	34.03	20.89	11.08	9.47	5.34	1.55
-25.5	65.24 *	54.67 *	51.41 *	43.64	31.91	19.85	11.49	10.41	5.96	1.73
-29	58.41 *	48.82 *	45.37	37.73	27.19	18.10	11.60	10.68	6.35	1.86
-33	46.86	38.76	35.34	28.85	21.69	16.47	11.36	10.42	6.41	1.92
-37.5	31.81	26.02	24.01	20.89	17.90	14.80	10.54	10.02	6.16	1.90
-42.5	17.85	15.45	15.45	14.95	13.80	11.74	8.69	8.42	5.20	1.65
-47.5	16.28	15.30	16.37	16.23	14.85	13.01	9.87	9.58	6.19	2.04
-55	12.33	11.62	12.65	12.89	12.13	10.72	8.20	8.32	5.67	1.98
-65	5.94	5.58	6.02	6.18	6.01	5.47	4.29	4.53	3.27	1.18
-75	2.24	2.12	2.31	2.42	2.40	2.23	1.78	1.92	1.42	0.53
-85	0.29	0.28	0.31	0.32	0.32	0.30	0.24	0.27	0.21	0.08
-90										
Total	2302.00	1830.49	1671.22	1409.6	1071.69	706.44	374.83	290.33	169.79	50.48

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00	0.11	
85				
	0.04	0.00	1.48	
75				
	0.10	0.00	14.79	
65				
	0.19	0.00	68.65	
55				
	0.22	0.00	114.86	
47.5				
	0.18	0.00	146.53	
42.5				
	0.22	0.00	294.10	
37.5				
	0.22	0.00	466.16	
33				
	0.22	0.00	627.23	
29				
	0.21	0.00	754.99	
25.5				
	0.19	0.00	836.69	
22.5				
	0.20	0.00	1062.72	
19.5				
	0.17	0.00	1106.11	
17				
	0.14	0.00	1051.57	

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

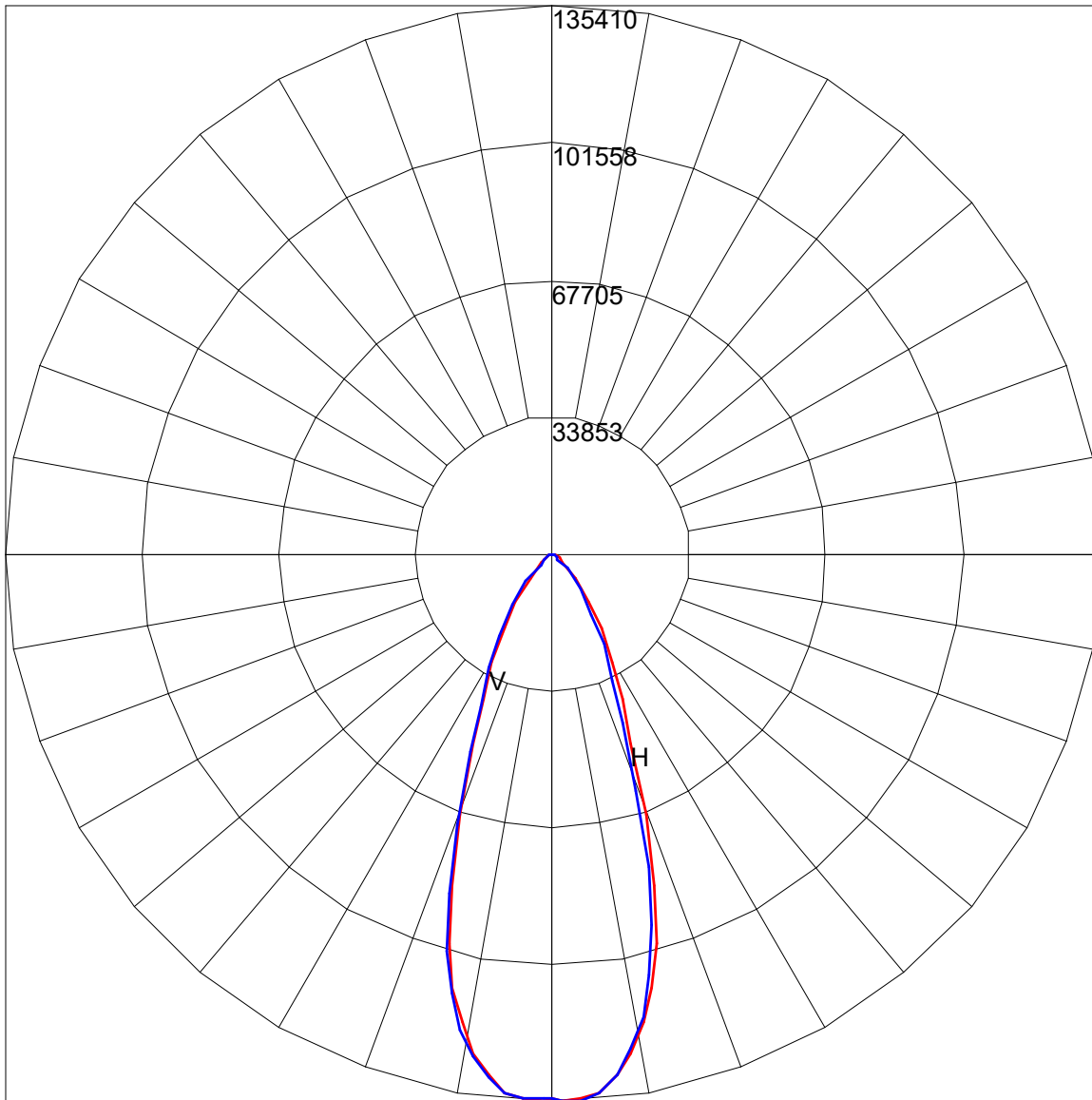
15	0.15	0.00	1200.97
13	0.15	0.00	1339.43
11	0.15	0.00	1461.84
9	0.16	0.00	1565.45
7	0.16	0.00	1645.16
5	0.16	0.00	1699.53
3	0.16	0.00	1731.49
1	0.08	0.00	872.03
0	0.08	0.00	873.28
-1	0.17	0.00	1741.05
-3	0.17	0.00	1717.54
-5	0.17	0.00	1672.1
-7	0.17	0.00	1605.79
-9	0.17	0.00	1519.34
-11	0.17	0.00	1413.5
-13	0.17	0.00	1290.05
-15	0.17	0.00	1153.68
-17	0.21	0.00	1247.72
-19.5	0.25	0.00	1237.02
-22.5	0.24	0.00	1005.44
-25.5	0.27	0.00	947.19
-29	0.29	0.00	836.23
-33	0.31	0.01	678.90
-37.5	0.31	0.01	490.48
-42.5	0.28	0.00	288.20
-47.5	0.35	0.01	254.79
-55	0.34	0.01	195.04
-65	0.21	0.00	93.36

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

LUMENS TABULATION - (Cont.)

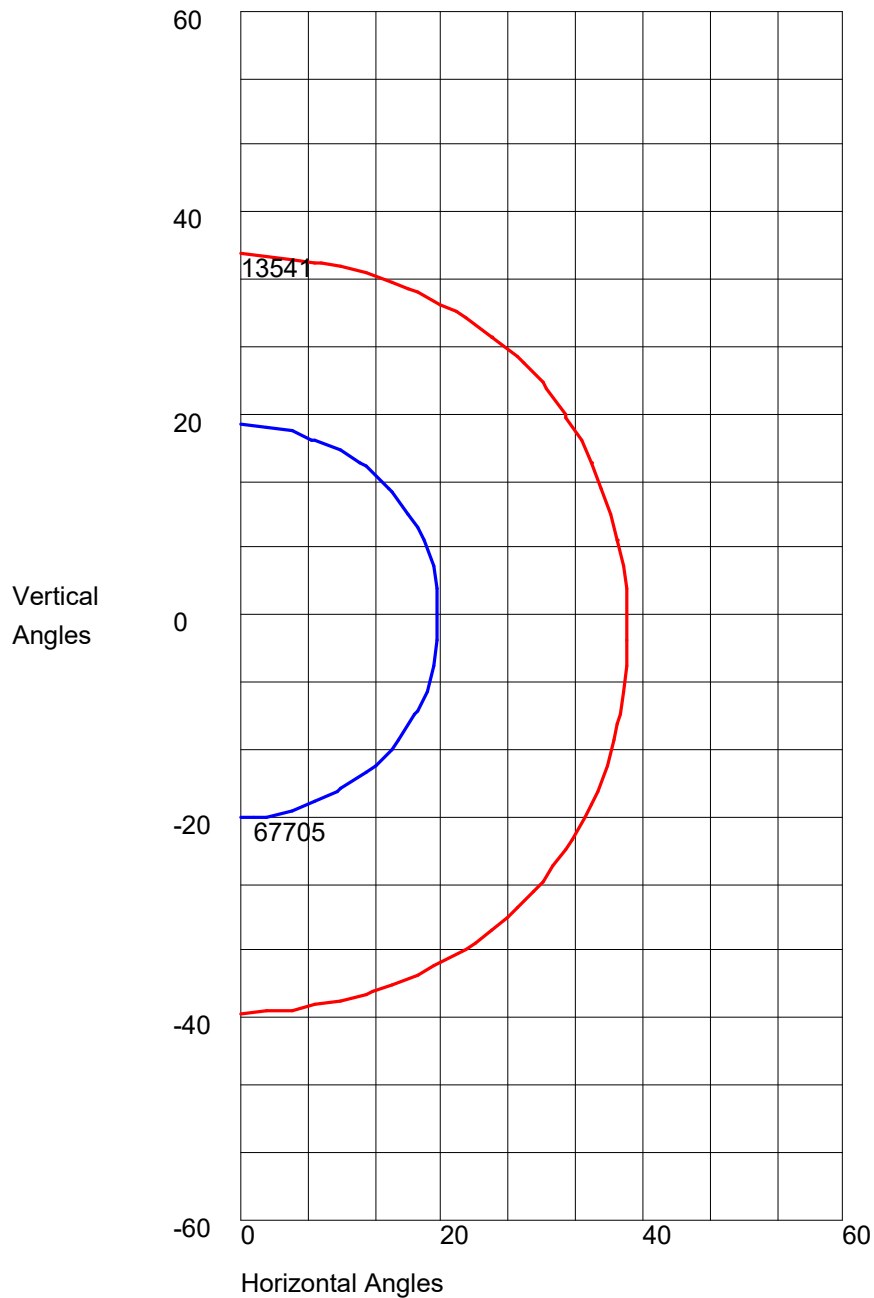
-75	0.10	0.00	35.95
-85	0.02	0.00	4.73
-90			
Total	8.08	0.14	38363.27

AXIAL CANDELA DISPLAY



Maximum Candela = 135410 Located At Horizontal Angle = 0, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 135410 Located At Horizontal Angle = 0, Vertical Angle = 3
50% Maximum Candela = 67705
10% Maximum Candela = 13541