



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13021
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 10/20/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-85L-MWF-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	5 H x 5 V
Maximum Candela	131692
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	40.4
Vertical Beam Angle (50%)	40.4
Horizontal Field Angle (10%)	78.5
Vertical Field Angle (10%)	78.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	39053
Beam Efficiency	N.A.
Field Lumens	70164
Field Efficiency	N.A.
Spill Lumens	9729
Luminaire Lumens	79894
Total Efficiency	N.A.
Total Luminaire Watts	576
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	69	85	70
75	384	75	381
65	982	65	983
55	2217	55	2209
47.5	3962	47.5	4075
42.5	8833	42.5	8950
37.5	15501	37.5	15442
33	23180	33	23091
29	31691	29	31664
25.5	40972	25.5	41323
22.5	52529	22.5	52673
19.5	70185	19.5	70238
17	86831	17	87181
15	98905	15	99196
13	108542	13	108720
11	116140	11	116378
9	122258	9	122548
7	127104	7	127340
5	130534	5	130593
3	131491	3	131579
1	131596	1	131634
0	131506	0	131506
-1	131596	-1	131634
-3	131491	-3	131579
-5	130534	-5	130593
-7	127104	-7	127340
-9	122258	-9	122548
-11	116140	-11	116378
-13	108542	-13	108720
-15	98905	-15	99196
-17	86831	-17	87181
-19.5	70185	-19.5	70238
-22.5	52529	-22.5	52673
-25.5	40972	-25.5	41323
-29	31691	-29	31664
-33	23180	-33	23091
-37.5	15501	-37.5	15442
-42.5	8833	-42.5	8950
-47.5	3962	-47.5	4075
-55	2217	-55	2209
-65	982	-65	983
-75	384	-75	381
-85	69	-85	70
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 131692

Beam Edge = 65846 Cd (50% of Max.)

Field Edge = 13169.2 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	4	12	20	31	40	46	51	56	59
75.0	0	12	50	102	162	205	236	264	287	307
65.0	0	20	104	215	344	448	527	612	690	751
55.0	0	31	163	343	589	832	1008	1200	1396	1569
47.5	0	40	207	449	824	1204	1528	1749	2112	2442
42.5	0	46	238	527	990	1527	1821	2365	2810	3132
37.5	0	51	267	611	1190	1733	2354	2922	3814	5402
33.0	0	55	290	685	1377	2085	2796	3802	6040	8639
29.0	0	58	309	747	1526	2420	3101	5347	8589	12059
25.5	0	61	324	801	1618	2682	3749	7010	11042	14929 *
22.5	0	63	336	838	1694	2808	4435	8495	13131	17623 *
19.5	0	64	346	875	1787	2917	5358	10043	15125 *	20347 *
17.0	0	66	354	903	1885	3067	6043	11266	16813 *	22599 *
15.0	0	66	360	922	1953	3267	6632	12147	18078 *	24281 *
13.0	0	67	365	938	2013	3441	7194	12996	19212 *	26006 *
11.0	0	69	370	952	2065	3589	7683	13722 *	20289 *	27492 *
9.0	0	69	374	963	2108	3710	8095	14305 *	21214 *	28731 *
7.0	0	69	377	972	2144	3804	8429	14767 *	21956 *	29821 *
5.0	0	69	382	978	2174	3875	8681	15104 *	22531 *	30711 *
3.0	0	69	383	984	2207	3959	8906	15337 *	22929 *	31312 *
1.0	0	69	384	983	2213	3961	8857	15493 *	23146 *	31638 *
0.0	0	69	384	982	2217	3962	8833	15501 *	23180 *	31691 *
-1.0	0	69	384	983	2213	3961	8857	15493 *	23146 *	31638 *
-3.0	0	69	383	984	2207	3959	8906	15337 *	22929 *	31312 *
-5.0	0	69	382	978	2174	3875	8681	15104 *	22531 *	30711 *
-7.0	0	69	377	972	2144	3804	8429	14767 *	21956 *	29821 *
-9.0	0	69	374	963	2108	3710	8095	14305 *	21214 *	28731 *
-11.0	0	69	370	952	2065	3589	7683	13722 *	20289 *	27492 *
-13.0	0	67	365	938	2013	3441	7194	12996	19212 *	26006 *
-15.0	0	66	360	922	1953	3267	6632	12147	18078 *	24281 *
-17.0	0	66	354	903	1885	3067	6043	11266	16813 *	22599 *
-19.5	0	64	346	875	1787	2917	5358	10043	15125 *	20347 *
-22.5	0	63	336	838	1694	2808	4435	8495	13131	17623 *
-25.5	0	61	324	801	1618	2682	3749	7010	11042	14929 *
-29.0	0	58	309	747	1526	2420	3101	5347	8589	12059
-33.0	0	55	290	685	1377	2085	2796	3802	6040	8639
-37.5	0	51	267	611	1190	1733	2354	2922	3814	5402
-42.5	0	46	238	527	990	1527	1821	2365	2810	3132
-47.5	0	40	207	449	824	1204	1528	1749	2112	2442
-55.0	0	31	163	343	589	832	1008	1200	1396	1569
-65.0	0	20	104	215	344	448	527	612	690	751
-75.0	0	12	50	102	162	205	236	264	287	307
-85.0	0	4	12	20	31	40	46	51	56	59
-90.0	0	0	0	0	0	0	0	0	0	0

IES FLOOD REPORT
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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	61	63	66	67	69	69	72	71	71	71
75.0	324	336	347	355	361	365	369	371	374	377
65.0	802	836	874	902	923	940	953	963	970	975
55.0	1643	1700	1776	1873	1943	2007	2063	2109	2146	2173
47.5	2716	2859	2986	3138	3335	3510	3661	3788	3887	3958
42.5	3804	4508	5428	6103	6696	7259	7753	8150	8456	8681
37.5	7076	8544	10046	11212	12063	12924	13668 *	14292 *	14794 *	15175 *
33.0	11065	13118	15083 *	16751 *	17938 *	19041 *	20193 *	21213 *	21980 *	22535 *
29.0	14955 *	17716 *	20430 *	22611 *	24236 *	25880 *	27391 *	28685 *	29807 *	30689 *
25.5	18745 *	22253 *	25729 *	28582 *	30837 *	32952 *	34830 *	36826 *	38524 *	39775 *
22.5	22131 *	26388 *	30711 *	34259 *	37232 *	40155 *	42863 *	45981 *	48509 *	50392 *
19.5	25592 *	30675 *	35925 *	40726 *	44894 *	49444 *	53872 *	58845 *	62987 *	66235 *
17.0	28580 *	34325 *	40773 *	47071 *	52431 *	59410 *	65861 *	72372 *	78024 *	82265 *
15.0	30931 *	37353 *	44938 *	52387 *	60315 *	68231 *	76616 *	83966 *	89732 *	93938 *
13.0	33102 *	40342 *	49363 *	59456 *	68391 *	78183 *	86917 *	94310 *	100242 *	104042 *
11.0	34968 *	43113 *	53757 *	65970 *	76902 *	87047 *	95928 *	103073 *	108596 *	112366 *
9.0	36860 *	45963 *	58714 *	72462 *	84288 *	94420 *	103074 *	110350 *	115109 *	118741 *
7.0	38428 *	48246 *	62573 *	77901 *	89928 *	100440 *	108711 *	115097 *	120245 *	123641 *
5.0	39663 *	50118 *	65555 *	81830 *	93906 *	104247 *	112687 *	118848 *	123561 *	127322 *
3.0	40494 *	51493 *	68199 *	84756 *	96801 *	106846 *	114797 *	121065 *	126100 *	129183 *
1.0	40917 *	52408 *	69795 *	86388 *	98620 *	108303 *	116094 *	122264 *	127120 *	130627 *
0.0	40972 *	52529 *	70185 *	86831 *	98905 *	108542 *	116140 *	122258 *	127104 *	130534 *
-1.0	40917 *	52408 *	69795 *	86388 *	98620 *	108303 *	116094 *	122264 *	127120 *	130627 *
-3.0	40494 *	51493 *	68199 *	84756 *	96801 *	106846 *	114797 *	121065 *	126100 *	129183 *
-5.0	39663 *	50118 *	65555 *	81830 *	93906 *	104247 *	112687 *	118848 *	123561 *	127322 *
-7.0	38428 *	48246 *	62573 *	77901 *	89928 *	100440 *	108711 *	115097 *	120245 *	123641 *
-9.0	36860 *	45963 *	58714 *	72462 *	84288 *	94420 *	103074 *	110350 *	115109 *	118741 *
-11.0	34968 *	43113 *	53757 *	65970 *	76902 *	87047 *	95928 *	103073 *	108596 *	112366 *
-13.0	33102 *	40342 *	49363 *	59456 *	68391 *	78183 *	86917 *	94310 *	100242 *	104042 *
-15.0	30931 *	37353 *	44938 *	52387 *	60315 *	68231 *	76616 *	83966 *	89732 *	93938 *
-17.0	28580 *	34325 *	40773 *	47071 *	52431 *	59410 *	65861 *	72372 *	78024 *	82265 *
-19.5	25592 *	30675 *	35925 *	40726 *	44894 *	49444 *	53872 *	58845 *	62987 *	66235 *
-22.5	22131 *	26388 *	30711 *	34259 *	37232 *	40155 *	42863 *	45981 *	48509 *	50392 *
-25.5	18745 *	22253 *	25729 *	28582 *	30837 *	32952 *	34830 *	36826 *	38524 *	39775 *
-29.0	14955 *	17716 *	20430 *	22611 *	24236 *	25880 *	27391 *	28685 *	29807 *	30689 *
-33.0	11065	13118	15083 *	16751 *	17938 *	19041 *	20193 *	21213 *	21980 *	22535 *
-37.5	7076	8544	10046	11212	12063	12924	13668 *	14292 *	14794 *	15175 *
-42.5	3804	4508	5428	6103	6696	7259	7753	8150	8456	8681
-47.5	2716	2859	2986	3138	3335	3510	3661	3788	3887	3958
-55.0	1643	1700	1776	1873	1943	2007	2063	2109	2146	2173
-65.0	802	836	874	902	923	940	953	963	970	975
-75.0	324	336	347	355	361	365	369	371	374	377
-85.0	61	63	66	67	69	69	72	71	71	71
-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	71	70	70	70	71	71	71	71	72	69
75.0	379	380	381	380	379	377	374	371	369	365
65.0	982	983	983	983	982	975	970	963	953	940

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CANDELA TABULATION - (Cont.)

55.0	2202	2207	2209	2207	2202	2173	2146	2109	2063	2007
47.5	4043	4064	4075	4064	4043	3958	3887	3788	3661	3510
42.5	8924	8941	8950	8941	8924	8681	8456	8150	7753	7259
37.5	15432 *	15485 *	15442 *	15485 *	15432 *	15175 *	14794 *	14292 *	13668 *	12924
33.0	22909 *	23079 *	23091 *	23079 *	22909 *	22535 *	21980 *	21213 *	20193 *	19041 *
29.0	31279 *	31604 *	31664 *	31604 *	31279 *	30689 *	29807 *	28685 *	27391 *	25880 *
25.5	40599 *	41151 *	41323 *	41151 *	40599 *	39775 *	38524 *	36826 *	34830 *	32952 *
22.5	51628 *	52493 *	52673 *	52493 *	51628 *	50392 *	48509 *	45981 *	42863 *	40155 *
19.5	68436 *	69774 *	70238 *	69774 *	68436 *	66235 *	62987 *	58845 *	53872 *	49444 *
17.0	84944 *	86489 *	87181 *	86489 *	84944 *	82265 *	78024 *	72372 *	65861 *	59410 *
15.0	96904 *	98867 *	99196 *	98867 *	96904 *	93938 *	89732 *	83966 *	76616 *	68231 *
13.0	106753 *	108189 *	108720 *	108189 *	106753 *	104042 *	100242 *	94310 *	86917 *	78183 *
11.0	114805 *	115964 *	116378 *	115964 *	114805 *	112366 *	108596 *	103073 *	95928 *	87047 *
9.0	121098 *	122293 *	122548 *	122293 *	121098 *	118741 *	115109 *	110350 *	103074 *	94420 *
7.0	125933 *	127159 *	127340 *	127159 *	125933 *	123641 *	120245 *	115097 *	108711 *	100440 *
5.0	129116 *	130434 *	130593 *	130434 *	129116 *	127322 *	123561 *	118848 *	112687 *	104247 *
3.0	131039 *	131337 *	131579 *	131337 *	131039 *	129183 *	126100 *	121065 *	114797 *	106846 *
1.0	131465 *	131692 *	131634 *	131692 *	131465 *	130627 *	127120 *	122264 *	116094 *	108303 *
0.0	131491 *	131596 *	131506 *	131596 *	131491 *	130534 *	127104 *	122258 *	116140 *	108542 *
-1.0	131465 *	131692 *	131634 *	131692 *	131465 *	130627 *	127120 *	122264 *	116094 *	108303 *
-3.0	131039 *	131337 *	131579 *	131337 *	131039 *	129183 *	126100 *	121065 *	114797 *	106846 *
-5.0	129116 *	130434 *	130593 *	130434 *	129116 *	127322 *	123561 *	118848 *	112687 *	104247 *
-7.0	125933 *	127159 *	127340 *	127159 *	125933 *	123641 *	120245 *	115097 *	108711 *	100440 *
-9.0	121098 *	122293 *	122548 *	122293 *	121098 *	118741 *	115109 *	110350 *	103074 *	94420 *
-11.0	114805 *	115964 *	116378 *	115964 *	114805 *	112366 *	108596 *	103073 *	95928 *	87047 *
-13.0	106753 *	108189 *	108720 *	108189 *	106753 *	104042 *	100242 *	94310 *	86917 *	78183 *
-15.0	96904 *	98867 *	99196 *	98867 *	96904 *	93938 *	89732 *	83966 *	76616 *	68231 *
-17.0	84944 *	86489 *	87181 *	86489 *	84944 *	82265 *	78024 *	72372 *	65861 *	59410 *
-19.5	68436 *	69774 *	70238 *	69774 *	68436 *	66235 *	62987 *	58845 *	53872 *	49444 *
-22.5	51628 *	52493 *	52673 *	52493 *	51628 *	50392 *	48509 *	45981 *	42863 *	40155 *
-25.5	40599 *	41151 *	41323 *	41151 *	40599 *	39775 *	38524 *	36826 *	34830 *	32952 *
-29.0	31279 *	31604 *	31664 *	31604 *	31279 *	30689 *	29807 *	28685 *	27391 *	25880 *
-33.0	22909 *	23079 *	23091 *	23079 *	22909 *	22535 *	21980 *	21213 *	20193 *	19041 *
-37.5	15432 *	15485 *	15442 *	15485 *	15432 *	15175 *	14794 *	14292 *	13668 *	12924
-42.5	8924	8941	8950	8941	8924	8681	8456	8150	7753	7259
-47.5	4043	4064	4075	4064	4043	3958	3887	3788	3661	3510
-55.0	2202	2207	2209	2207	2202	2173	2146	2109	2063	2007
-65.0	982	983	983	983	982	975	970	963	953	940
-75.0	379	380	381	380	379	377	374	371	369	365
-85.0	71	70	70	70	71	71	71	71	72	69
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **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	69	67	66	63	61	59	56	51	46	40
75.0	361	355	347	336	324	307	287	264	236	205
65.0	923	902	874	836	802	751	690	612	527	448
55.0	1943	1873	1776	1700	1643	1569	1396	1200	1008	832
47.5	3335	3138	2986	2859	2716	2442	2112	1749	1528	1204
42.5	6696	6103	5428	4508	3804	3132	2810	2365	1821	1527
37.5	12063	11212	10046	8544	7076	5402	3814	2922	2354	1733
33.0	17938 *	16751 *	15083 *	13118	11065	8639	6040	3802	2796	2085
29.0	24236 *	22611 *	20430 *	17716 *	14955 *	12059	8589	5347	3101	2420
25.5	30837 *	28582 *	25729 *	22253 *	18745 *	14929 *	11042	7010	3749	2682

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	37232 *	34259 *	30711 *	26388 *	22131 *	17623 *	13131	8495	4435	2808
19.5	44894 *	40726 *	35925 *	30675 *	25592 *	20347 *	15125 *	10043	5358	2917
17.0	52431 *	47071 *	40773 *	34325 *	28580 *	22599 *	16813 *	11266	6043	3067
15.0	60315 *	52387 *	44938 *	37353 *	30931 *	24281 *	18078 *	12147	6632	3267
13.0	68391 *	59456 *	49363 *	40342 *	33102 *	26006 *	19212 *	12996	7194	3441
11.0	76902 *	65970 *	53757 *	43113 *	34968 *	27492 *	20289 *	13722 *	7683	3589
9.0	84288 *	72462 *	58714 *	45963 *	36860 *	28731 *	21214 *	14305 *	8095	3710
7.0	89928 *	77901 *	62573 *	48246 *	38428 *	29821 *	21956 *	14767 *	8429	3804
5.0	93906 *	81830 *	65555 *	50118 *	39663 *	30711 *	22531 *	15104 *	8681	3875
3.0	96801 *	84756 *	68199 *	51493 *	40494 *	31312 *	22929 *	15337 *	8906	3959
1.0	98620 *	86388 *	69795 *	52408 *	40917 *	31638 *	23146 *	15493 *	8857	3961
0.0	98905 *	86831 *	70185 *	52529 *	40972 *	31691 *	23180 *	15501 *	8833	3962
-1.0	98620 *	86388 *	69795 *	52408 *	40917 *	31638 *	23146 *	15493 *	8857	3961
-3.0	96801 *	84756 *	68199 *	51493 *	40494 *	31312 *	22929 *	15337 *	8906	3959
-5.0	93906 *	81830 *	65555 *	50118 *	39663 *	30711 *	22531 *	15104 *	8681	3875
-7.0	89928 *	77901 *	62573 *	48246 *	38428 *	29821 *	21956 *	14767 *	8429	3804
-9.0	84288 *	72462 *	58714 *	45963 *	36860 *	28731 *	21214 *	14305 *	8095	3710
-11.0	76902 *	65970 *	53757 *	43113 *	34968 *	27492 *	20289 *	13722 *	7683	3589
-13.0	68391 *	59456 *	49363 *	40342 *	33102 *	26006 *	19212 *	12996	7194	3441
-15.0	60315 *	52387 *	44938 *	37353 *	30931 *	24281 *	18078 *	12147	6632	3267
-17.0	52431 *	47071 *	40773 *	34325 *	28580 *	22599 *	16813 *	11266	6043	3067
-19.5	44894 *	40726 *	35925 *	30675 *	25592 *	20347 *	15125 *	10043	5358	2917
-22.5	37232 *	34259 *	30711 *	26388 *	22131 *	17623 *	13131	8495	4435	2808
-25.5	30837 *	28582 *	25729 *	22253 *	18745 *	14929 *	11042	7010	3749	2682
-29.0	24236 *	22611 *	20430 *	17716 *	14955 *	12059	8589	5347	3101	2420
-33.0	17938 *	16751 *	15083 *	13118	11065	8639	6040	3802	2796	2085
-37.5	12063	11212	10046	8544	7076	5402	3814	2922	2354	1733
-42.5	6696	6103	5428	4508	3804	3132	2810	2365	1821	1527
-47.5	3335	3138	2986	2859	2716	2442	2112	1749	1528	1204
-55.0	1943	1873	1776	1700	1643	1569	1396	1200	1008	832
-65.0	923	902	874	836	802	751	690	612	527	448
-75.0	361	355	347	336	324	307	287	264	236	205
-85.0	69	67	66	63	61	59	56	51	46	40
-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	31	20	12	4	0
75.0	162	102	50	12	0
65.0	344	215	104	20	0
55.0	589	343	163	31	0
47.5	824	449	207	40	0
42.5	990	527	238	46	0
37.5	1190	611	267	51	0
33.0	1377	685	290	55	0
29.0	1526	747	309	58	0
25.5	1618	801	324	61	0
22.5	1694	838	336	63	0
19.5	1787	875	346	64	0
17.0	1885	903	354	66	0
15.0	1953	922	360	66	0
13.0	2013	938	365	67	0
11.0	2065	952	370	69	0
9.0	2108	963	374	69	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2144	972	377	69	0
5.0	2174	978	382	69	0
3.0	2207	984	383	69	0
1.0	2213	983	384	69	0
0.0	2217	982	384	69	0
-1.0	2213	983	384	69	0
-3.0	2207	984	383	69	0
-5.0	2174	978	382	69	0
-7.0	2144	972	377	69	0
-9.0	2108	963	374	69	0
-11.0	2065	952	370	69	0
-13.0	2013	938	365	67	0
-15.0	1953	922	360	66	0
-17.0	1885	903	354	66	0
-19.5	1787	875	346	64	0
-22.5	1694	838	336	63	0
-25.5	1618	801	324	61	0
-29.0	1526	747	309	58	0
-33.0	1377	685	290	55	0
-37.5	1190	611	267	51	0
-42.5	990	527	238	46	0
-47.5	824	449	207	40	0
-55.0	589	343	163	31	0
-65.0	344	215	104	20	0
-75.0	162	102	50	12	0
-85.0	31	20	12	4	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 39946.8

Total Field Lumens (one side of beam only) = 35082.16

* 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	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10
75	0.69	1.37	1.36	1.35	1.34	1.32	1.30	1.28	1.25	1.51
65	2.08	4.15	4.12	4.08	4.04	3.98	3.91	3.83	3.72	4.48
55	4.86	9.70	9.62	9.49	9.33	9.13	8.88	8.59	8.26	9.81
47.5	7.17	14.29	14.10	13.82	13.49	13.07	12.56	11.96	11.30	13.25
42.5	9.91	19.77	19.45	18.92	18.31	17.51	16.52	15.37	14.11	15.96
37.5	18.59	37.13	36.62	35.67	34.46	32.89	30.99	28.77	26.41	29.64
33	26.42 *	52.68 *	51.99 *	50.77 *	49.05 *	46.82 *	44.13 *	41.21 *	38.19 *	43.19 *
29	33.34 *	66.28 *	65.28 *	63.62 *	61.34 *	58.48 *	55.12 *	51.48 *	47.75 *	54.15 *
25.5	38.84 *	77.05 *	75.69 *	73.58 *	70.65 *	67.05 *	63.12 *	58.91 *	54.45 *	61.60 *
22.5	42.87 *	84.87 *	83.13 *	80.52 *	76.85 *	72.22 *	67.40 *	62.59 *	57.50 *	64.70 *
19.5	56.01 *	110.65 *	107.88 *	103.66 *	97.88 *	90.69 *	83.28 *	76.13 *	69.00 *	76.81 *
17	59.72 *	117.83 *	114.66 *	109.63 *	102.64 *	94.10 *	85.13 *	76.17 *	67.76 *	74.35 *
15	56.62 *	111.78 *	108.80 *	104.20 *	97.76 *	89.64 *	80.48 *	71.05 *	62.13 *	66.96 *
13	63.20 *	125.03 *	122.04 *	117.52 *	111.08 *	102.53 *	92.35 *	81.31 *	70.43 *	74.54 *
11	68.42 *	135.68 *	133.08 *	128.82 *	122.53 *	114.06 *	103.71 *	91.78 *	79.27 *	82.64 *
9	72.68 *	144.34 *	141.91 *	137.78 *	131.85 *	123.72 *	113.36 *	101.27 *	87.73 *	90.72 *
7	76.05 *	151.14 *	148.71 *	144.72 *	138.99 *	131.16 *	121.16 *	109.08 *	95.04 *	98.23 *
5	78.52 *	156.06 *	153.76 *	149.88 *	144.11 *	136.59 *	126.95 *	114.83 *	100.60 *	104.09 *
3	79.80 *	158.88 *	156.99 *	153.33 *	147.67 *	140.21 *	130.67 *	118.75 *	104.62 *	108.60 *
1	80.15 *	159.98 *	158.71 *	155.41 *	149.78 *	142.25 *	132.90 *	121.35 *	107.33 *	111.78 *
0	40.09 *	80.10 *	79.63 *	78.06 *	75.22 *	71.51 *	66.90 *	61.23 *	54.28 *	56.62 *
-1	40.09 *	80.10 *	79.63 *	78.06 *	75.22 *	71.51 *	66.90 *	61.23 *	54.28 *	56.62 *
	80.15 *	159.98 *	158.71 *	155.41 *	149.78 *	142.25 *	132.90 *	121.35 *	107.33 *	111.78 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	79.80 *	158.88 *	156.99 *	153.33 *	147.67 *	140.21 *	130.67 *	118.75 *	104.62 *	108.60 *
-5	78.52 *	156.06 *	153.76 *	149.88 *	144.11 *	136.59 *	126.95 *	114.83 *	100.60 *	104.09 *
-7	76.05 *	151.14 *	148.71 *	144.72 *	138.99 *	131.16 *	121.16 *	109.08 *	95.04 *	98.23 *
-9	72.68 *	144.34 *	141.91 *	137.78 *	131.85 *	123.72 *	113.36 *	101.27 *	87.73 *	90.72 *
-11	68.42 *	135.68 *	133.08 *	128.82 *	122.53 *	114.06 *	103.71 *	91.78 *	79.27 *	82.64 *
-13	63.20 *	125.03 *	122.04 *	117.52 *	111.08 *	102.53 *	92.35 *	81.31 *	70.43 *	74.54 *
-15	56.62 *	111.78 *	108.80 *	104.20 *	97.76 *	89.64 *	80.48 *	71.05 *	62.13 *	66.96 *
-17	59.72 *	117.83 *	114.66 *	109.63 *	102.64 *	94.10 *	85.13 *	76.17 *	67.76 *	74.35 *
-19.5	56.01 *	110.65 *	107.88 *	103.66 *	97.88 *	90.69 *	83.28 *	76.13 *	69.00 *	76.81 *
-22.5	42.87 *	84.87 *	83.13 *	80.52 *	76.85 *	72.22 *	67.40 *	62.59 *	57.50 *	64.70 *
-25.5	38.84 *	77.05 *	75.69 *	73.58 *	70.65 *	67.05 *	63.12 *	58.91 *	54.45 *	61.60 *
-29	33.34 *	66.28 *	65.28 *	63.62 *	61.34 *	58.48 *	55.12 *	51.48 *	47.75 *	54.15 *
-33	26.42 *	52.68 *	51.99 *	50.77 *	49.05 *	46.82 *	44.13 *	41.21 *	38.19 *	43.19 *
-37.5	18.59	37.13	36.62	35.67	34.46	32.89	30.99	28.77	26.41	29.64
-42.5	9.91	19.77	19.45	18.92	18.31	17.51	16.52	15.37	14.11	15.96
-47.5	7.17	14.29	14.10	13.82	13.49	13.07	12.56	11.96	11.30	13.25
-55	4.86	9.70	9.62	9.49	9.33	9.13	8.88	8.59	8.26	9.81
-65	2.08	4.15	4.12	4.08	4.04	3.98	3.91	3.83	3.72	4.48
-75	0.69	1.37	1.36	1.35	1.34	1.32	1.30	1.28	1.25	1.51
-85	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.12
-90										
Total	1832.1	3637.71	3575.31	3469.92	3316.98	3118.12	2881.84	2614.1	2322.4	2487.5

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.14	0.13	0.14	0.15	0.15	0.14	0.12	0.13	0.10	0.04
85	1.73	1.64	1.78	1.85	1.84	1.74	1.42	1.56	1.20	0.48
75	5.10	4.80	5.17	5.31	5.18	4.78	3.81	4.14	3.13	1.23
65	11.06	10.39	11.29	11.50	10.91	9.76	7.58	7.91	5.67	2.15
55	14.91	13.96	14.87	14.72	13.55	12.00	9.23	9.24	6.29	2.27

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5	16.83	14.49	14.33	13.70	12.64	10.88	8.18	8.12	5.31	1.85
42.5	30.42	24.97	23.00	19.79	16.66	13.80	10.01	9.72	6.31	2.14
37.5	44.90	37.38	34.31	28.07	20.87	15.58	10.86	10.26	6.61	2.17
33	56.60 *	47.46 *	44.27	36.89	26.61	17.55	11.20	10.59	6.59	2.11
29	64.29 *	53.81 *	50.32 *	42.60	31.32	19.60	11.26	10.31	6.25	1.99
25.5	67.23 *	56.04 *	52.19 *	44.43 *	33.30	20.72	11.04	9.43	5.65	1.79
22.5	79.14 *	65.60 *	60.91 *	51.87 *	39.28	24.78	12.53	9.87	5.93	1.87
19.5	75.55 *	62.17 *	57.52 *	48.87 *	37.24 *	23.85	11.70	8.62	5.18	1.61
17	67.13 *	54.76 *	50.41 *	42.69 *	32.63 *	21.05	10.23	7.27	4.31	1.32
15	73.36 *	59.15 *	54.17 *	45.72 *	34.94 *	22.73	11.05	7.63	4.43	1.34
13	79.58 *	63.24 *	57.60 *	48.56 *	37.05 *	24.26	11.79	7.94	4.54	1.37
11	85.97 *	67.16 *	60.68 *	51.02 *	38.91 *	25.55	12.42	8.20	4.63	1.38
9	91.92 *	70.74 *	63.42 *	53.11 *	40.42 *	26.59	12.94	8.41	4.71	1.40
7	96.61 *	73.65 *	65.69 *	54.83 *	41.61 *	27.40	13.34	8.57	4.77	1.41
5	100.39 *	75.87 *	67.37 *	56.12 *	42.47 *	28.01	13.68	8.73	4.82	1.42
3	103.18 *	77.34 *	68.40 *	56.92 *	43.03 *	28.34	13.83	8.82	4.86	1.42
1	52.23 *	38.99 *	34.41 *	28.63 *	21.63 *	14.20	6.89	4.41	2.43	0.71
0	52.23 *	38.99 *	34.41 *	28.63 *	21.63 *	14.20	6.89	4.41	2.43	0.71
-1	103.18 *	77.34 *	68.40 *	56.92 *	43.03 *	28.34	13.83	8.82	4.86	1.42
-3	100.39 *	75.87 *	67.37 *	56.12 *	42.47 *	28.01	13.68	8.73	4.82	1.42
-5	96.61 *	73.65 *	65.69 *	54.83 *	41.61 *	27.40	13.34	8.57	4.77	1.41
-7	91.92 *	70.74 *	63.42 *	53.11 *	40.42 *	26.59	12.94	8.41	4.71	1.40
-9	85.97 *	67.16 *	60.68 *	51.02 *	38.91 *	25.55	12.42	8.20	4.63	1.38
-11	79.58 *	63.24 *	57.60 *	48.56 *	37.05 *	24.26	11.79	7.94	4.54	1.37
-13	73.36 *	59.15 *	54.17 *	45.72 *	34.94 *	22.73	11.05	7.63	4.43	1.34
-15	67.13 *	54.76 *	50.41 *	42.69 *	32.63 *	21.05	10.23	7.27	4.31	1.32
-17	75.55 *	62.17 *	57.52 *	48.87 *	37.24 *	23.85	11.70	8.62	5.18	1.61
-19.5	79.14 *	65.60 *	60.91 *	51.87 *	39.28	24.78	12.53	9.87	5.93	1.87

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	67.23 *	56.04 *	52.19 *	44.43 *	33.30	20.72	11.04	9.43	5.65	1.79
-25.5	64.29 *	53.81 *	50.32 *	42.60	31.32	19.60	11.26	10.31	6.25	1.99
-29	56.60 *	47.46 *	44.27	36.89	26.61	17.55	11.20	10.59	6.59	2.11
-33	44.90	37.38	34.31	28.07	20.87	15.58	10.86	10.26	6.61	2.17
-37.5	30.42	24.97	23.00	19.79	16.66	13.80	10.01	9.72	6.31	2.14
-42.5	16.83	14.49	14.33	13.70	12.64	10.88	8.18	8.12	5.31	1.85
-47.5	14.91	13.96	14.87	14.72	13.55	12.00	9.23	9.24	6.29	2.27
-55	11.06	10.39	11.29	11.50	10.91	9.76	7.58	7.91	5.67	2.15
-65	5.10	4.80	5.17	5.31	5.18	4.78	3.81	4.14	3.13	1.23
-75	1.73	1.64	1.78	1.85	1.84	1.74	1.42	1.56	1.20	0.48
-85	0.14	0.13	0.14	0.15	0.15	0.14	0.12	0.13	0.10	0.04
-90										
Total	2436.5	1947.48	1784.52	1514.69	1164.53	786.58	430.25	339.73	207.40	66.92

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		2.26
85				
	0.10	0.00		28.12
75				
	0.25	0.01		81.30
65				
	0.42	0.01		176.31
55				
	0.44	0.01		236.50
47.5				
	0.35	0.01		272.51
42.5				
	0.40	0.01		468.38
37.5				
	0.39	0.01		655.87
33				
	0.38	0.01		817.10
29				
	0.35	0.01		933.05
25.5				
	0.31	0.01		994.78
22.5				
	0.32	0.01		1224.1
19.5				
	0.27	0.01		1234.59
17				
	0.22	0.00		1141.43

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

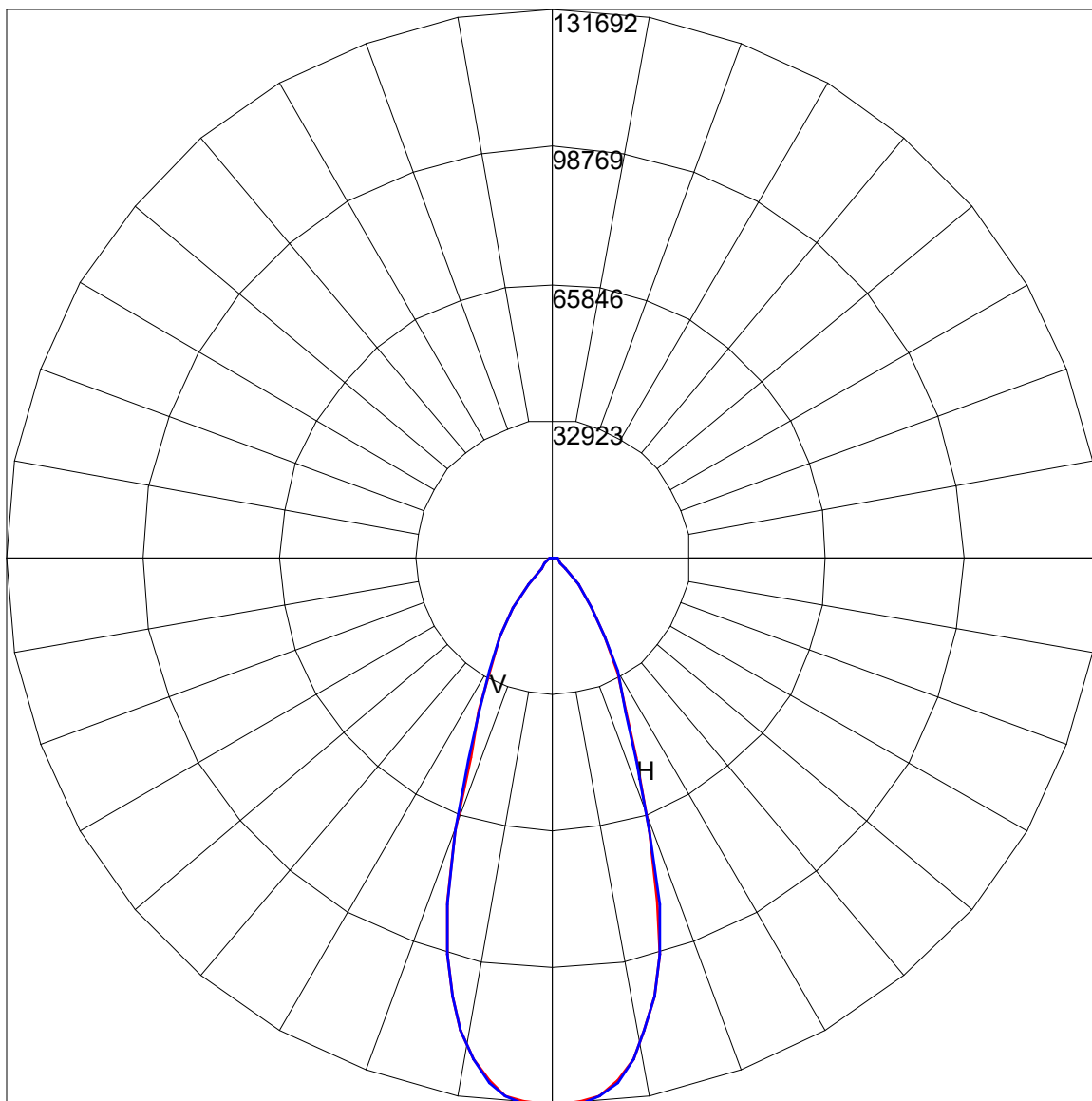
15	0.23	0.00	1274.8
13	0.23	0.00	1396.15
11	0.23	0.00	1501.51
9	0.23	0.00	1588.17
7	0.24	0.00	1653.48
5	0.24	0.00	1698.65
3	0.24	0.00	1726.02
1	0.12	0.00	868.30
0	0.12	0.00	868.30
-1	0.24	0.00	1726.02
-3	0.24	0.00	1698.65
-5	0.24	0.00	1653.48
-7	0.23	0.00	1588.17
-9	0.23	0.00	1501.51
-11	0.23	0.00	1396.15
-13	0.23	0.00	1274.8
-15	0.22	0.00	1141.43
-17	0.27	0.01	1234.59
-19.5	0.32	0.01	1224.1
-22.5	0.31	0.01	994.78
-25.5	0.35	0.01	933.05
-29	0.38	0.01	817.10
-33	0.39	0.01	655.87
-37.5	0.40	0.01	468.38
-42.5	0.35	0.01	272.51
-47.5	0.44	0.01	236.50
-55	0.42	0.01	176.31
-65	0.25	0.01	81.30

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

LUMENS TABULATION - (Cont.)

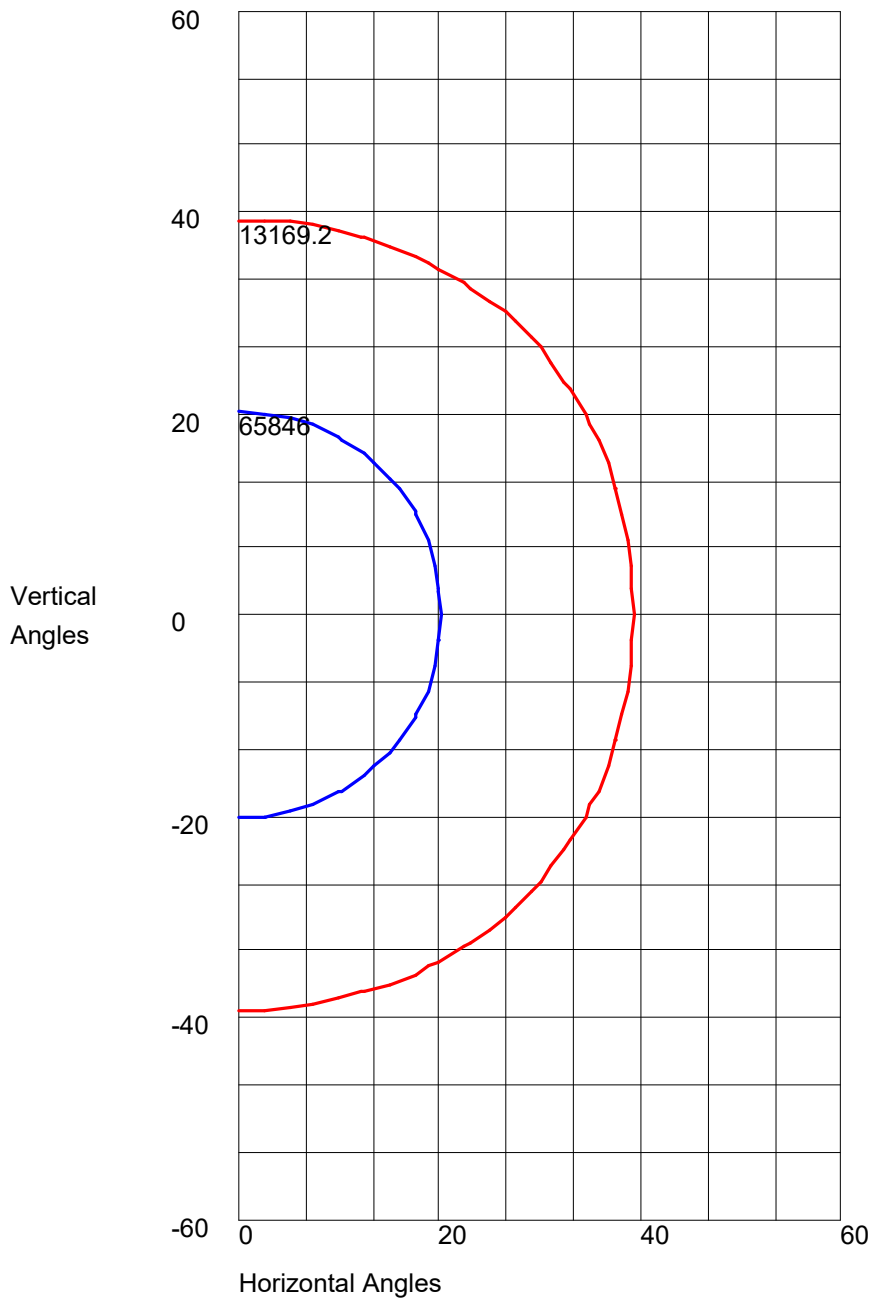
-75	0.10	0.00	28.12
-85	0.01	0.00	2.26
-90			
Total	11.94	0.24	39946.76

AXIAL CANDELA DISPLAY



Maximum Candela = 131692 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 131692 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 65846
10% Maximum Candela = 13169.2