



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13130
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 12/16/21
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-85L-MF-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	4 H x 4 V
Maximum Candela	194983
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	32.1
Vertical Beam Angle (50%)	32.2
Horizontal Field Angle (10%)	60.4
Vertical Field Angle (10%)	59.3
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	36180
Beam Efficiency	N.A.
Field Lumens	62388
Field Efficiency	N.A.
Spill Lumens	14901
Luminaire Lumens	77289
Total Efficiency	N.A.
Total Luminaire Watts	572.4
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	55	85	0
75	377	75	2
65	959	65	407
55	2377	55	1204
47.5	4016	47.5	2524
42.5	5893	42.5	4264
37.5	9486	37.5	7315
33	14538	33	11948
29	21407	29	17754
25.5	32103	25.5	26638
22.5	45710	22.5	38987
19.5	64231	19.5	56440
17	86419	17	77840
15	110501	15	103384
13	133588	13	127862
11	152850	11	148101
9	168256	9	164534
7	180169	7	177500
5	189343	5	187237
3	193556	3	192667
1	194656	1	194422
0	194687	0	194687
-1	194656	-1	194983
-3	193556	-3	194866
-5	189343	-5	192620
-7	180169	-7	183446
-9	168256	-9	172165
-11	152850	-11	158005
-13	133588	-13	140155
-15	110501	-15	117766
-17	86419	-17	94114
-19.5	64231	-19.5	70317
-22.5	45710	-22.5	48994
-25.5	32103	-25.5	35173
-29	21407	-29	23296
-33	14538	-33	15587
-37.5	9486	-37.5	10308
-42.5	5893	-42.5	6404
-47.5	4016	-47.5	4421
-55	2377	-55	2705
-65	959	-65	1181
-75	377	-75	526
-85	55	-85	123
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 194983

Beam Edge = 97491.5 Cd (50% of Max.)

Field Edge = 19498.3 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	2	5	6	7	7	6	5	4	3
75.0	0	7	26	54	73	80	84	82	76	71
65.0	0	11	64	127	192	230	257	281	308	330
55.0	0	19	113	234	367	484	572	668	765	845
47.5	0	26	155	333	569	806	1015	1333	1450	1698
42.5	0	31	187	406	734	1110	1481	1787	2244	2556
37.5	0	36	219	483	928	1553	1909	2580	3066	3546
33.0	0	39	246	559	1135	1794	2540	3269	3936	4814
29.0	0	42	270	627	1320	2183	3078	3913	5001	6424
25.5	0	45	289	687	1510	2560	3499	4580	6169	8185
22.5	0	47	305	733	1656	2842	3833	5238	7336	9977
19.5	0	48	319	780	1790	3078	4174	5996	8560	11849
17.0	0	50	330	815	1894	3248	4439	6630	9723	13382
15.0	0	51	338	841	1975	3397	4688	7114	10656	14560
13.0	0	51	345	865	2053	3529	4940	7681	11509	15997
11.0	0	54	352	887	2128	3646	5175	8179	12346	17247
9.0	0	54	358	905	2198	3747	5385	8574	13076	18304
7.0	0	54	363	921	2261	3833	5569	8894	13635	19355
5.0	0	54	370	935	2304	3903	5725	9138	14060	20372 *
3.0	0	55	373	949	2350	3975	5860	9321	14351	21141 *
1.0	0	55	376	956	2368	4002	5882	9459	14506	21404 *
0.0	0	55	377	959	2377	4016	5893	9486	14538	21407 *
-1.0	0	55	378	962	2383	4021	5909	9563	14686	21605 *
-3.0	0	55	381	969	2396	4032	5940	9629	14877	21720 *
-5.0	0	56	383	968	2380	3999	5864	9569	14683	21169 *
-7.0	0	56	381	967	2366	3979	5806	9388	14325	20317 *
-9.0	0	56	380	963	2333	3948	5711	9124	13844	19390
-11.0	0	57	379	956	2293	3901	5578	8776	13228	18474
-13.0	0	55	377	946	2245	3837	5407	8327	12501	17397
-15.0	0	55	374	934	2190	3758	5195	7805	11735	16170
-17.0	0	54	371	918	2129	3662	4974	7396	10864	15014
-19.5	0	53	366	896	2045	3546	4759	6829	9757	13529
-22.5	0	52	358	863	1940	3379	4467	6120	8562	11704
-25.5	0	51	348	830	1826	3174	4197	5492	7404	9854
-29.0	0	49	335	785	1678	2813	3847	4846	6191	8024
-33.0	0	46	317	732	1509	2392	3387	4234	5090	6170
-37.5	0	43	293	667	1302	2102	2746	3600	4231	4871
-42.5	0	38	263	597	1104	1730	2207	2791	3437	3908
-47.5	0	33	230	526	934	1349	1741	2175	2508	2928
-55.0	0	25	182	417	701	965	1153	1390	1601	1802
-65.0	0	16	115	264	442	571	660	758	851	920
-75.0	0	10	55	130	217	287	334	375	409	436
-85.0	0	3	14	30	52	67	78	89	98	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	1	1	1	0	0	0	0	0	0	0
75.0	65	59	51	44	38	32	26	19	13	8
65.0	348	358	371	380	385	391	397	402	405	404
55.0	938	992	1036	1070	1089	1101	1122	1147	1170	1190
47.5	1915	2061	2186	2268	2323	2365	2395	2445	2481	2492
42.5	2812	3049	3298	3470	3634	3793	3926	4039	4125	4181
37.5	4059	4534	5095	5545	5861	6229	6562	6848	7040	7154
33.0	5785	6741	7717	8565	9190	9793	10433	11002	11413	11674
29.0	8057	9563	11101	12360	13285	14205	15084	15842	16568	17107
25.5	10423	12498	14621	16351	17966	19497	20774 *	22713 *	24409 *	25510 *
22.5	12740	15324	18324	21224 *	24061 *	26864 *	29337 *	32566 *	35248 *	37201 *
19.5	15078	18478	23171 *	28461 *	32767 *	37294 *	41711 *	46584 *	50304 *	52803 *
17.0	17178	21785 *	28954 *	35925 *	41563 *	47978 *	53956 *	61314 *	67501 *	71409 *
15.0	19420	25388 *	33905 *	42088 *	49801 *	57487 *	66404 *	74908 *	85932 *	93806 *
13.0	21743 *	29185 *	39150 *	49129 *	58165 *	69284 *	80956 *	93851 *	106449 *	116656 *
11.0	23721 *	32647 *	44299 *	55933 *	68788 *	82698 *	98375 *	113181 *	126903 *	138082 *
9.0	26165 *	36497 *	49870 *	64257 *	78395 *	97489 *	115161 *	131513 *	144506 *	155318 *
7.0	28401 *	39820 *	54641 *	71448 *	89068 *	109453 *	129894 *	145925 *	159724 *	168302 *
5.0	30249 *	42472 *	58447 *	77163 *	97898 *	119750 *	140950 *	157215 *	169172 *	178639 *
3.0	31638 *	44391 *	61765 *	82256 *	104887 *	127280 *	147249 *	164083 *	176567 *	184836 *
1.0	32136 *	45579 *	63810 *	85733 *	110058 *	132709 *	152020 *	167535 *	179594 *	189153 *
0.0	32103 *	45710 *	64231 *	86419 *	110501 *	133588 *	152850 *	168256 *	180169 *	189343 *
-1.0	32396 *	45877 *	64238 *	86207 *	109823 *	132428 *	152328 *	168239 *	180139 *	189898 *
-3.0	32402 *	45312 *	63054 *	84195 *	107030 *	130436 *	150621 *	166283 *	178119 *	186666 *
-5.0	31467 *	44023 *	60515 *	80503 *	102488 *	125076 *	145610 *	161392 *	172830 *	181408 *
-7.0	30017 *	41995 *	57888 *	76410 *	95671 *	116482 *	136689 *	152532 *	164979 *	173700 *
-9.0	28065 *	39226 *	54089 *	70029 *	84894 *	104237 *	123188 *	140350 *	153329 *	163126 *
-11.0	25788 *	35668 *	48887 *	61963 *	75412 *	90688 *	108173 *	124636 *	138817 *	148561 *
-13.0	23845 *	32604 *	44010 *	55284 *	65367 *	78053 *	91615 *	106915 *	119764 *	128896 *
-15.0	21724 *	29163 *	38965 *	48216 *	56945 *	65863 *	76648 *	86557 *	98261 *	106920 *
-17.0	19583 *	25739 *	33996 *	42015 *	48581 *	56081 *	63073 *	71411 *	78879 *	84817 *
-19.5	17356	21844 *	27924 *	34324 *	39608 *	45049 *	50266 *	55768 *	60430 *	64095 *
-22.5	14817	18007	21956 *	26180 *	30051 *	33952 *	37541 *	41350 *	44562 *	47030 *
-25.5	12500	14886	17464	19710 *	22231 *	24895 *	27271 *	29890 *	32162 *	33857 *
-29.0	10035	11831	13706	15199	16377	17750	19089	20308 *	21569 *	22585 *
-33.0	7509	8726	9976	11148	12030	12846	13652	14398	14986	15408
-37.5	5559	6240	7004	7621	8078	8643	9151	9586	9879	10094
-42.5	4290	4614	4962	5216	5443	5664	5851	6025	6180	6303
-47.5	3315	3584	3821	3963	4054	4135	4203	4271	4324	4362
-55.0	1961	2071	2184	2299	2384	2462	2532	2594	2645	2687
-65.0	977	1016	1053	1081	1100	1118	1135	1150	1163	1172
-75.0	460	478	490	498	502	507	511	514	517	521
-85.0	109	112	115	118	119	120	124	123	123	123
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	6	3	2	3	6	8	13	19	26	32
65.0	408	407	407	407	408	404	405	402	397	391

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CANDELA TABULATION - (Cont.)

55.0	1207	1205	1204	1205	1207	1190	1170	1147	1122	1101
47.5	2500	2516	2524	2516	2500	2492	2481	2445	2395	2365
42.5	4257	4262	4264	4262	4257	4181	4125	4039	3926	3793
37.5	7332	7345	7315	7345	7332	7154	7040	6848	6562	6229
33.0	11951	11992	11948	11992	11951	11674	11413	11002	10433	9793
29.0	17550	17783	17754	17783	17550	17107	16568	15842	15084	14205
25.5	26207 *	26723 *	26638 *	26723 *	26207 *	25510 *	24409 *	22713 *	20774 *	19497
22.5	38519 *	39099 *	38987 *	39099 *	38519 *	37201 *	35248 *	32566 *	29337 *	26864 *
19.5	55507 *	56486 *	56440 *	56486 *	55507 *	52803 *	50304 *	46584 *	41711 *	37294 *
17.0	76112 *	77494 *	77840 *	77494 *	76112 *	71409 *	67501 *	61314 *	53956 *	47978 *
15.0	99586 *	101558 *	103384 *	101558 *	99586 *	93806 *	85932 *	74908 *	66404 *	57487 *
13.0	123407 *	125518 *	127862 *	125518 *	123407 *	116656 *	106449 *	93851 *	80956 *	69284 *
11.0	144271 *	146759 *	148101 *	146759 *	144271 *	138082 *	126903 *	113181 *	98375 *	82698 *
9.0	161429 *	163994 *	164534 *	163994 *	161429 *	155318 *	144506 *	131513 *	115161 *	97489 *
7.0	174663 *	176962 *	177500 *	176962 *	174663 *	168302 *	159724 *	145925 *	129894 *	109453 *
5.0	183904 *	187239 *	187237 *	187239 *	183904 *	178639 *	169172 *	157215 *	140950 *	119750 *
3.0	190217 *	192319 *	192667 *	192319 *	190217 *	184836 *	176567 *	164083 *	147249 *	127280 *
1.0	193142 *	194511 *	194422 *	194511 *	193142 *	189153 *	179594 *	167535 *	152020 *	132709 *
0.0	193556 *	194656 *	194687 *	194656 *	193556 *	189343 *	180169 *	168256 *	152850 *	133588 *
-1.0	193456 *	194841 *	194983 *	194841 *	193456 *	189898 *	180139 *	168239 *	152328 *	132428 *
-3.0	192593 *	194581 *	194866 *	194581 *	192593 *	186666 *	178119 *	166283 *	150621 *	130436 *
-5.0	187965 *	192589 *	192620 *	192589 *	187965 *	181408 *	172830 *	161392 *	145610 *	125076 *
-7.0	180064 *	183231 *	183446 *	183231 *	180064 *	173700 *	164979 *	152532 *	136689 *	116482 *
-9.0	168998 *	171896 *	172165 *	171896 *	168998 *	163126 *	153329 *	140350 *	123188 *	104237 *
-11.0	153915 *	157640 *	158005 *	157640 *	153915 *	148561 *	138817 *	124636 *	108173 *	90688 *
-13.0	135063 *	139463 *	140155 *	139463 *	135063 *	128896 *	119764 *	106915 *	91615 *	78053 *
-15.0	112697 *	116565 *	117766 *	116565 *	112697 *	106920 *	98261 *	86557 *	76648 *	65863 *
-17.0	89573 *	92764 *	94114 *	92764 *	89573 *	84817 *	78879 *	71411 *	63073 *	56081 *
-19.5	67268 *	69460 *	70317 *	69460 *	67268 *	64095 *	60430 *	55768 *	50266 *	45049 *
-22.5	48658 *	49302 *	48994 *	49302 *	48658 *	47030 *	44562 *	41350 *	37541 *	33952 *
-25.5	35004 *	35325 *	35173 *	35325 *	35004 *	33857 *	32162 *	29890 *	27271 *	24895 *
-29.0	23273 *	23405 *	23296 *	23405 *	23273 *	22585 *	21569 *	20308 *	19089	17750
-33.0	15689	15666	15587	15666	15689	15408	14986	14398	13652	12846
-37.5	10228	10312	10308	10312	10228	10094	9879	9586	9151	8643
-42.5	6426	6411	6404	6411	6426	6303	6180	6025	5851	5664
-47.5	4406	4416	4421	4416	4406	4362	4324	4271	4203	4135
-55.0	2717	2709	2705	2709	2717	2687	2645	2594	2532	2462
-65.0	1181	1181	1181	1181	1181	1172	1163	1150	1135	1118
-75.0	523	525	526	525	523	521	517	514	511	507
-85.0	123	123	123	123	123	123	123	123	124	120
-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	0	0	1	1	1	3	4	5	6	7
75.0	38	44	51	59	65	71	76	82	84	80
65.0	385	380	371	358	348	330	308	281	257	230
55.0	1089	1070	1036	992	938	845	765	668	572	484
47.5	2323	2268	2186	2061	1915	1698	1450	1333	1015	806
42.5	3634	3470	3298	3049	2812	2556	2244	1787	1481	1110
37.5	5861	5545	5095	4534	4059	3546	3066	2580	1909	1553
33.0	9190	8565	7717	6741	5785	4814	3936	3269	2540	1794
29.0	13285	12360	11101	9563	8057	6424	5001	3913	3078	2183
25.5	17966	16351	14621	12498	10423	8185	6169	4580	3499	2560

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	24061 *	21224 *	18324	15324	12740	9977	7336	5238	3833	2842
19.5	32767 *	28461 *	23171 *	18478	15078	11849	8560	5996	4174	3078
17.0	41563 *	35925 *	28954 *	21785 *	17178	13382	9723	6630	4439	3248
15.0	49801 *	42088 *	33905 *	25388 *	19420	14560	10656	7114	4688	3397
13.0	58165 *	49129 *	39150 *	29185 *	21743 *	15997	11509	7681	4940	3529
11.0	68788 *	55933 *	44299 *	32647 *	23721 *	17247	12346	8179	5175	3646
9.0	78395 *	64257 *	49870 *	36497 *	26165 *	18304	13076	8574	5385	3747
7.0	89068 *	71448 *	54641 *	39820 *	28401 *	19355	13635	8894	5569	3833
5.0	97898 *	77163 *	58447 *	42472 *	30249 *	20372 *	14060	9138	5725	3903
3.0	104887 *	82256 *	61765 *	44391 *	31638 *	21141 *	14351	9321	5860	3975
1.0	110058 *	85733 *	63810 *	45579 *	32136 *	21404 *	14506	9459	5882	4002
0.0	110501 *	86419 *	64231 *	45710 *	32103 *	21407 *	14538	9486	5893	4016
-1.0	109823 *	86207 *	64238 *	45877 *	32396 *	21605 *	14686	9563	5909	4021
-3.0	107030 *	84195 *	63054 *	45312 *	32402 *	21720 *	14877	9629	5940	4032
-5.0	102488 *	80503 *	60515 *	44023 *	31467 *	21169 *	14683	9569	5864	3999
-7.0	95671 *	76410 *	57888 *	41995 *	30017 *	20317 *	14325	9388	5806	3979
-9.0	84894 *	70029 *	54089 *	39226 *	28065 *	19390	13844	9124	5711	3948
-11.0	75412 *	61963 *	48887 *	35668 *	25788 *	18474	13228	8776	5578	3901
-13.0	65367 *	55284 *	44010 *	32604 *	23845 *	17397	12501	8327	5407	3837
-15.0	56945 *	48216 *	38965 *	29163 *	21724 *	16170	11735	7805	5195	3758
-17.0	48581 *	42015 *	33996 *	25739 *	19583 *	15014	10864	7396	4974	3662
-19.5	39608 *	34324 *	27924 *	21844 *	17356	13529	9757	6829	4759	3546
-22.5	30051 *	26180 *	21956 *	18007	14817	11704	8562	6120	4467	3379
-25.5	22231 *	19710 *	17464	14886	12500	9854	7404	5492	4197	3174
-29.0	16377	15199	13706	11831	10035	8024	6191	4846	3847	2813
-33.0	12030	11148	9976	8726	7509	6170	5090	4234	3387	2392
-37.5	8078	7621	7004	6240	5559	4871	4231	3600	2746	2102
-42.5	5443	5216	4962	4614	4290	3908	3437	2791	2207	1730
-47.5	4054	3963	3821	3584	3315	2928	2508	2175	1741	1349
-55.0	2384	2299	2184	2071	1961	1802	1601	1390	1153	965
-65.0	1100	1081	1053	1016	977	920	851	758	660	571
-75.0	502	498	490	478	460	436	409	375	334	287
-85.0	119	118	115	112	109	104	98	89	78	67
-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	7	6	5	2	0
75.0	73	54	26	7	0
65.0	192	127	64	11	0
55.0	367	234	113	19	0
47.5	569	333	155	26	0
42.5	734	406	187	31	0
37.5	928	483	219	36	0
33.0	1135	559	246	39	0
29.0	1320	627	270	42	0
25.5	1510	687	289	45	0
22.5	1656	733	305	47	0
19.5	1790	780	319	48	0
17.0	1894	815	330	50	0
15.0	1975	841	338	51	0
13.0	2053	865	345	51	0
11.0	2128	887	352	54	0
9.0	2198	905	358	54	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2261	921	363	54	0
5.0	2304	935	370	54	0
3.0	2350	949	373	55	0
1.0	2368	956	376	55	0
0.0	2377	959	377	55	0
-1.0	2383	962	378	55	0
-3.0	2396	969	381	55	0
-5.0	2380	968	383	56	0
-7.0	2366	967	381	56	0
-9.0	2333	963	380	56	0
-11.0	2293	956	379	57	0
-13.0	2245	946	377	55	0
-15.0	2190	934	374	55	0
-17.0	2129	918	371	54	0
-19.5	2045	896	366	53	0
-22.5	1940	863	358	52	0
-25.5	1826	830	348	51	0
-29.0	1678	785	335	49	0
-33.0	1509	732	317	46	0
-37.5	1302	667	293	43	0
-42.5	1104	597	263	38	0
-47.5	934	526	230	33	0
-55.0	701	417	182	25	0
-65.0	442	264	115	16	0
-75.0	217	130	55	10	0
-85.0	52	30	14	3	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 38644.67

Total Field Lumens (one side of beam only) = 31194.19

* 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	0.01	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.17
65	0.62	1.25	1.25	1.26	1.27	1.27	1.26	1.25	1.24	1.53
55	2.45	4.91	4.88	4.80	4.71	4.60	4.49	4.38	4.28	5.17
47.5	4.25	8.48	8.42	8.33	8.19	8.00	7.80	7.62	7.41	8.90
42.5	5.17	10.30	10.20	10.06	9.87	9.60	9.30	8.95	8.56	10.14
37.5	8.83	17.65	17.41	17.04	16.63	16.03	15.28	14.42	13.55	15.74
33	13.23	26.45	26.06	25.41	24.64	23.52	22.13	20.66	19.21	21.90
29	18.12	36.09	35.42	34.39	33.07	31.41	29.51	27.47	25.42	28.74
25.5	23.69 *	47.02 *	45.93 *	44.32 *	41.98 *	39.06	36.27	33.59	30.72	34.44
22.5	30.03 *	59.61 *	58.08 *	55.60 *	52.00 *	47.42 *	43.12 *	39.19 *	34.96 *	38.25
19.5	43.64 *	86.58 *	83.88 *	79.77 *	74.52 *	67.58 *	60.43 *	53.64 *	46.78 *	49.45 *
17	51.07 *	101.07 *	97.17 *	91.64 *	85.10 *	76.33 *	67.39 *	58.96 *	50.77 *	52.66 *
15	54.87 *	107.99 *	103.59 *	96.53 *	87.37 *	76.97 *	67.28 *	58.17 *	49.59 *	50.94 *
13	69.80 *	137.01 *	131.71 *	122.03 *	108.93 *	94.83 *	81.68 *	69.38 *	58.32 *	59.40 *
11	83.50 *	164.37 *	158.74 *	147.86 *	132.84 *	115.90 *	98.71 *	82.44 *	67.93 *	68.16 *
9	94.94 *	187.66 *	182.04 *	171.10 *	155.68 *	137.46 *	117.31 *	96.76 *	78.29 *	77.51 *
7	104.02 *	206.10 *	200.46 *	190.20 *	175.45 *	156.73 *	134.67 *	110.66 *	88.77 *	86.86 *
5	111.02 *	220.02 *	214.38 *	204.73 *	190.65 *	172.18 *	148.99 *	123.00 *	98.26 *	94.63 *
3	115.67 *	229.43 *	224.13 *	214.84 *	201.20 *	182.83 *	159.47 *	132.94 *	106.05 *	101.11 *
1	117.87 *	234.46 *	230.13 *	221.19 *	207.46 *	189.25 *	166.63 *	140.37 *	112.12 *	106.15 *
0	59.27 *	118.09 *	116.26 *	111.82 *	104.90 *	96.09 *	85.09 *	71.95 *	57.49 *	54.27 *
-1	59.33 *	118.19 *	116.42 *	112.02 *	105.09 *	96.24 *	85.09 *	71.87 *	57.53 *	54.44 *
	118.68 *	236.07 *	231.73 *	222.60 *	208.97 *	191.22 *	168.58 *	141.78 *	113.39 *	107.64 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	117.98 *	233.71 *	227.48 *	217.82 *	204.70 *	187.16 *	164.39 *	137.44 *	109.57 *	104.23 *
-5	114.51 *	226.44 *	219.73 *	209.91 *	196.59 *	178.85 *	156.08 *	129.96 *	103.97 *	99.55 *
-7	108.25 *	214.37 *	208.41 *	198.46 *	184.36 *	165.81 *	143.19 *	118.60 *	95.75 *	93.44 *
-9	100.47 *	198.62 *	192.83 *	182.92 *	168.05 *	148.89 *	127.01 *	104.99 *	85.59 *	84.96 *
-11	90.66 *	178.41 *	172.12 *	162.38 *	147.84 *	129.39 *	109.80 *	91.48 *	75.55 *	75.99 *
-13	78.27 *	153.36 *	146.94 *	137.48 *	124.12 *	108.51 *	93.01 *	78.68 *	66.12 *	67.43 *
-15	64.15 *	125.30 *	119.72 *	111.75 *	101.08 *	89.30 *	77.96 *	67.23 *	57.32 *	59.01 *
-17	62.19 *	121.41 *	116.13 *	109.14 *	100.48 *	90.19 *	79.88 *	69.94 *	60.22 *	62.49 *
-19.5	54.39 *	107.16 *	103.49 *	98.20 *	91.45 *	83.21 *	74.55 *	65.91 *	57.17 *	59.87 *
-22.5	38.56 *	76.84 *	75.00 *	71.62 *	66.95 *	61.22 *	55.27 *	49.27 *	43.12 *	46.27 *
-25.5	31.24 *	62.33 *	61.00 *	58.41 *	54.86 *	50.69 *	46.41 *	42.03 *	37.67	41.81
-29	23.74	47.51 *	46.77	45.17	42.99	40.46	37.74	34.88	32.06	36.18
-33	17.78	35.54	35.15	34.33	33.15	31.58	29.69	27.66	25.61	29.08
-37.5	12.73	25.40	25.11	24.58	23.88	22.96	21.83	20.56	19.29	22.42
-42.5	8.24	16.48	16.33	16.03	15.69	15.26	14.79	14.26	13.67	16.24
-47.5	8.14	16.26	16.15	15.92	15.65	15.30	14.90	14.45	13.94	16.63
-55	5.92	11.85	11.79	11.61	11.39	11.12	10.80	10.44	10.05	11.96
-65	2.60	5.19	5.16	5.11	5.04	4.96	4.87	4.77	4.66	5.64
-75	0.99	1.97	1.96	1.94	1.93	1.91	1.88	1.84	1.81	2.21
-85	0.09	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.17	0.21
-90										
Total	2130.98	4217.19	4099.76	3900.55	3620.96	3271.55	2874.77	2454.12	2044.09	2063.85

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.02	0.01
85	0.24	0.26	0.33	0.40	0.47	0.52	0.48	0.60	0.53	0.24
75	1.79	1.73	1.93	2.05	2.09	2.05	1.75	2.05	1.70	0.70
65	5.88	5.50	5.83	5.87	5.66	5.18	4.15	4.55	3.50	1.40
55	10.04	9.24	9.59	9.32	8.85	7.85	5.81	5.96	4.29	1.63

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	11.30	10.26	10.64	10.37	9.53	8.19	5.94	5.75	3.88	1.41
42.5	17.04	15.08	15.37	14.90	13.54	11.31	8.15	7.73	4.85	1.68
37.5	23.12	19.83	19.41	18.05	16.18	13.51	9.44	8.70	5.31	1.76
33	29.96	25.16	23.77	21.07	18.04	14.93	10.33	9.19	5.54	1.77
29	35.67	29.61	27.44	23.55	19.26	15.38	10.66	9.47	5.52	1.71
25.5	38.88	31.92	29.37	24.80	19.58	15.00	10.28	9.18	5.23	1.57
22.5	48.17	38.58	35.29	29.54	22.77	16.83	11.25	10.04	5.66	1.67
19.5	49.26 *	37.83	34.05	28.40	21.62	15.48	10.05	8.94	5.02	1.46
17	46.93 *	34.96 *	30.58	25.23	19.09	13.34	8.49	7.51	4.20	1.21
15	54.44 *	39.96 *	33.98	27.53	20.68	14.24	8.91	7.83	4.36	1.24
13	61.97 *	44.78 *	37.30 *	29.81	22.22	15.15	9.31	8.11	4.51	1.27
11	69.66 *	49.68 *	40.48 *	31.83	23.60	15.93	9.66	8.37	4.65	1.30
9	77.13 *	54.63 *	43.70 *	33.61	24.72	16.58	9.98	8.60	4.78	1.33
7	83.34 *	58.83 *	46.62 *	35.20	25.59	17.10	10.24	8.79	4.88	1.35
5	88.32 *	62.08 *	49.00 *	36.51	26.23	17.52	10.48	8.95	4.97	1.37
3	91.94 *	64.17 *	50.38 *	37.28	26.66	17.80	10.62	9.07	5.04	1.38
1	46.78 *	32.46 *	25.36 *	18.76	13.43	8.96	5.33	4.56	2.53	0.69
0	46.93 *	32.57 *	25.47 *	18.86	13.51	9.00	5.34	4.57	2.54	0.70
-1	93.19 *	65.11 *	51.23 *	38.06	27.28	18.10	10.71	9.17	5.10	1.40
-3	90.81 *	63.94 *	50.59 *	37.83	27.28	18.08	10.68	9.15	5.11	1.41
-5	87.19 *	61.56 *	48.79 *	36.81	26.84	17.86	10.58	9.09	5.08	1.40
-7	82.40 *	58.14 *	46.34 *	35.44	26.12	17.51	10.47	9.02	5.04	1.40
-9	75.87 *	53.74 *	43.46 *	33.90	25.17	17.02	10.30	8.91	4.98	1.39
-11	68.74 *	49.21 *	40.52 *	32.16	23.97	16.38	10.08	8.77	4.90	1.38
-13	61.74 *	44.80 *	37.50 *	30.18	22.59	15.59	9.80	8.60	4.80	1.37
-15	54.54 *	40.16 *	34.35	28.08	21.15	14.80	9.47	8.39	4.69	1.35
-17	58.38 *	44.10 *	38.79	32.09	24.37	17.47	11.40	10.17	5.69	1.66
-19.5	57.41 *	45.09	40.80	34.11	26.25	19.40	13.04	11.69	6.55	1.94

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	46.27	37.70	34.74	29.39	23.15	17.74	12.29	11.06	6.23	1.87
-25.5	43.21	35.97	33.51	28.76	23.44	18.76	13.22	11.87	6.81	2.09
-29	37.74	31.80	30.08	26.60	22.79	19.03	13.39	11.99	7.16	2.26
-33	30.66	26.33	25.70	23.92	21.60	18.33	12.87	11.74	7.20	2.35
-37.5	24.33	21.60	22.07	21.47	19.67	16.54	11.82	11.14	6.98	2.37
-42.5	18.11	16.49	17.11	16.68	15.26	13.00	9.46	9.14	6.01	2.10
-47.5	18.65	17.11	17.78	17.31	16.10	14.13	10.51	10.58	7.35	2.64
-55	13.49	12.57	13.41	13.51	12.87	11.55	9.01	9.57	6.94	2.54
-65	6.48	6.12	6.62	6.83	6.70	6.20	4.98	5.42	4.00	1.47
-75	2.55	2.42	2.63	2.73	2.72	2.55	2.06	2.23	1.63	0.60
-85	0.24	0.23	0.25	0.26	0.26	0.24	0.20	0.21	0.16	0.06
-90										
Total	1910.74	1433.33	1232.13	1009.04	788.88	582.14	383.01	346.46	205.95	63.90

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.00	0.00	0.13
85			
	0.05	0.00	4.79
75			
	0.14	0.00	30.20
65			
	0.27	0.00	92.47
55			
	0.31	0.01	150.29
47.5			
	0.26	0.00	169.69
42.5			
	0.31	0.01	262.53
37.5			
	0.32	0.01	358.86
33			
	0.32	0.01	459.72
29			
	0.30	0.01	555.60
25.5			
	0.27	0.00	644.36
22.5			
	0.28	0.00	866.35
19.5			
	0.25	0.00	944.53
17			
	0.20	0.00	945.07

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

LUMENS TABULATION - (Cont.)

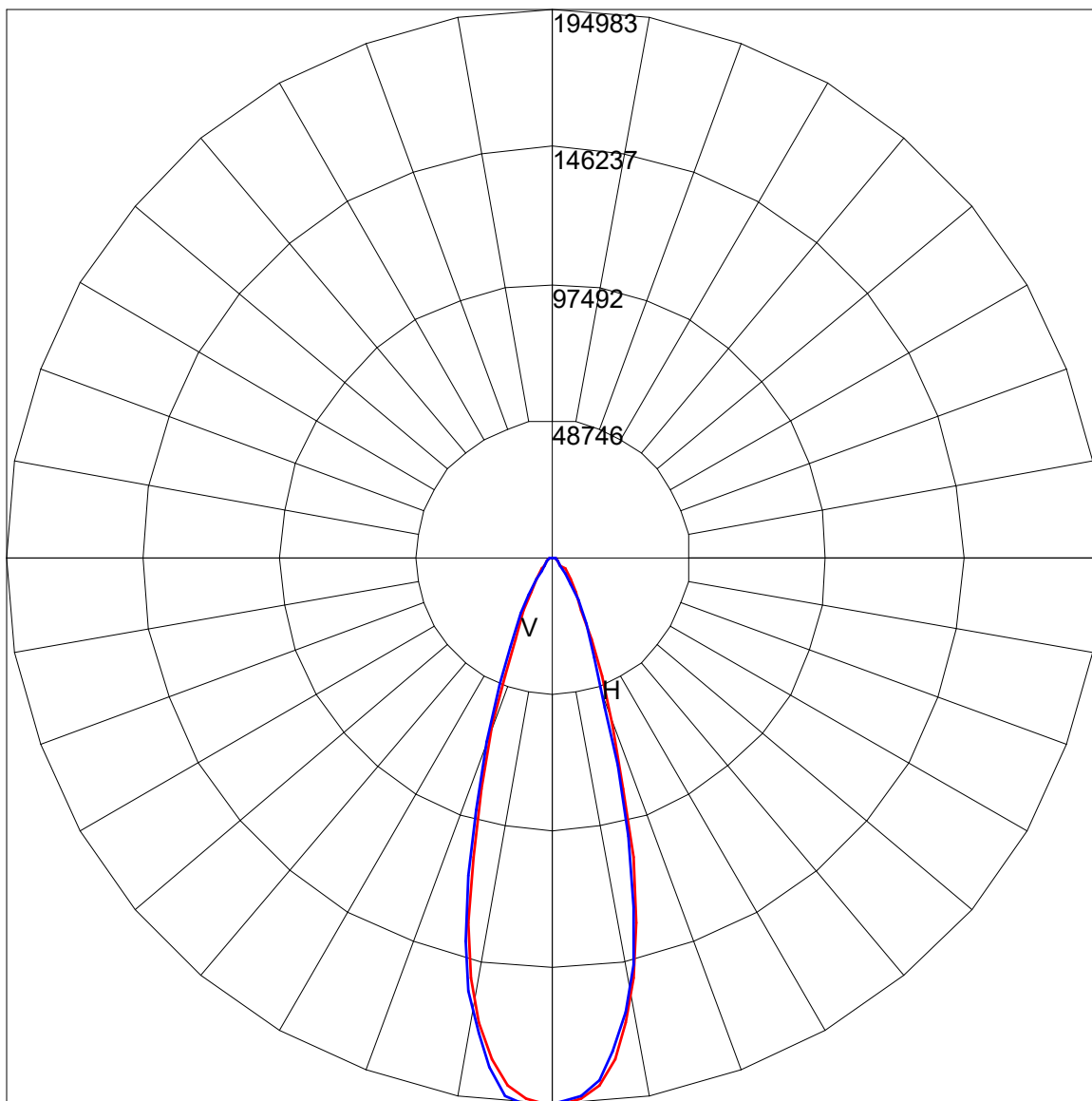
15			
	0.21	0.00	1146.47
13			
	0.21	0.00	1355.11
11			
	0.22	0.00	1554.13
9			
	0.22	0.00	1729.19
7			
	0.22	0.00	1870.01
5			
	0.23	0.00	1973.35
3			
	0.23	0.00	2040.18
1			
	0.11	0.00	1034.2
0			
	0.11	0.00	1035.82
-1			
	0.23	0.00	2060.25
-3			
	0.23	0.00	2019.58
-5			
	0.23	0.00	1941.03
-7			
	0.23	0.00	1822.76
-9			
	0.23	0.00	1669.31
-11			
	0.23	0.00	1489.97
-13			
	0.23	0.00	1291.12
-15			
	0.23	0.00	1090.01
-17			
	0.28	0.00	1116.45
-19.5			
	0.33	0.01	1052.01
-22.5			
	0.32	0.01	804.85
-25.5			
	0.36	0.01	704.45
-29			
	0.39	0.01	590.74
-33			
	0.42	0.01	480.72
-37.5			
	0.42	0.01	377.18
-42.5			
	0.37	0.01	270.72
-47.5			
	0.47	0.01	279.98
-55			
	0.45	0.01	212.84
-65			
	0.26	0.00	103.09

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

LUMENS TABULATION - (Cont.)

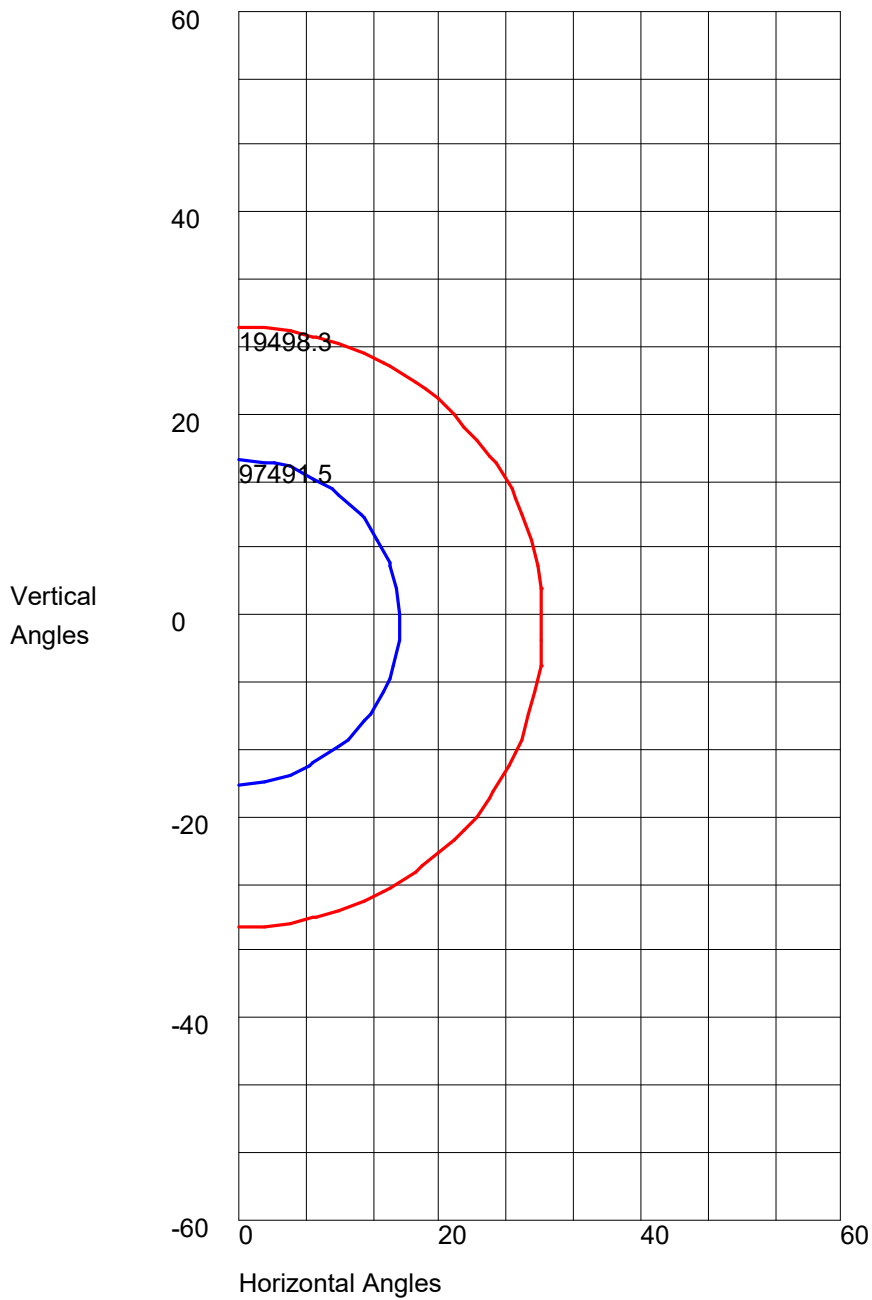
-75	0.11	0.00	40.66
-85	0.01	0.00	3.89
-90			
Total	11.08	0.18	38644.67

AXIAL CANDELA DISPLAY



Maximum Candela = 194983 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 194983 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 97491.5
10% Maximum Candela = 19498.3