



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13046
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 11/11/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-85L-NF-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	285840
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	24.4
Vertical Beam Angle (50%)	24.1
Horizontal Field Angle (10%)	49.0
Vertical Field Angle (10%)	48.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	31135
Beam Efficiency	N.A.
Field Lumens	56112
Field Efficiency	N.A.
Spill Lumens	22077
Luminaire Lumens	78189
Total Efficiency	N.A.
Total Luminaire Watts	572.9
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	67	85	0
75	458	75	0
65	1179	65	238
55	2854	55	1591
47.5	5357	47.5	3069
42.5	7588	42.5	4881
37.5	10212	37.5	7270
33	13016	33	10235
29	17407	29	14209
25.5	25204	25.5	20908
22.5	35424	22.5	30096
19.5	49761	19.5	43347
17	66169	17	59485
15	84514	15	76959
13	119858	13	110203
11	170630	11	159888
9	219278	9	210688
7	255227	7	250803
5	274887	5	271961
3	283032	3	280762
1	285091	1	284249
0	285107	0	285107
-1	285091	-1	285840
-3	283032	-3	285161
-5	274887	-5	278047
-7	255227	-7	260072
-9	219278	-9	224263
-11	170630	-11	177431
-13	119858	-13	128822
-15	84514	-15	90114
-17	66169	-17	70133
-19.5	49761	-19.5	52756
-22.5	35424	-22.5	37998
-25.5	25204	-25.5	27209
-29	17407	-29	18911
-33	13016	-33	13977
-37.5	10212	-37.5	11325
-42.5	7588	-42.5	8551
-47.5	5357	-47.5	6166
-55	2854	-55	3454
-65	1179	-65	1571
-75	458	-75	739
-85	67	-85	166
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 285840

Beam Edge = 142920 Cd (50% of Max.)

Field Edge = 28584 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	9	10	10	9	8	5	3	2
75.0	0	11	36	56	68	63	57	47	34	28
65.0	0	18	78	152	225	263	280	295	308	308
55.0	0	27	135	284	451	591	713	835	956	1070
47.5	0	36	183	395	663	933	1176	1437	1703	1940
42.5	0	42	218	480	848	1297	1680	2121	2567	2982
37.5	0	46	253	570	1091	1746	2310	3000	3696	4380
33.0	0	51	283	660	1338	2198	2988	3950	4922	5854
29.0	0	54	313	740	1561	2657	3666	4904	6126	7312
25.5	0	57	338	812	1776	3066	4348	5779	7231	8595
22.5	0	59	358	869	1949	3457	4901	6526	8181	9781
19.5	0	60	376	929	2117	3827	5429	7260	9060	10895
17.0	0	62	391	976	2260	4128	5839	7830	9769	11889
15.0	0	63	401	1011	2366	4347	6156	8252	10319	12687
13.0	0	64	412	1043	2465	4545	6450	8664	10817	13416
11.0	0	66	421	1073	2555	4724	6721	9040	11321	14094
9.0	0	66	430	1099	2637	4881	6971	9358	11794	14713
7.0	0	66	437	1122	2709	5017	7196	9624	12222	15532
5.0	0	67	447	1142	2764	5134	7393	9840	12584	16387
3.0	0	67	452	1163	2820	5269	7549	10015	12864	17059
1.0	0	67	456	1174	2843	5327	7575	10164	12983	17348
0.0	0	67	458	1179	2854	5357	7588	10212	13016	17407
-1.0	0	67	460	1185	2866	5382	7627	10263	13031	17444
-3.0	0	68	464	1195	2891	5433	7706	10311	13011	17368
-5.0	0	68	468	1197	2880	5406	7667	10301	12994	17181
-7.0	0	68	466	1198	2870	5376	7627	10230	12904	16784
-9.0	0	69	466	1197	2851	5317	7548	10110	12723	16306
-11.0	0	69	465	1191	2820	5229	7430	9945	12453	15733
-13.0	0	67	463	1182	2779	5113	7274	9733	12157	15045
-15.0	0	67	460	1168	2727	4967	7067	9464	11865	14248
-17.0	0	67	456	1151	2665	4793	6814	9161	11519	13620
-19.5	0	66	449	1125	2573	4571	6487	8716	10942	12855
-22.5	0	65	437	1088	2454	4284	6041	8112	10157	11923
-25.5	0	63	424	1050	2307	3953	5569	7472	9358	10953
-29.0	0	61	406	995	2117	3593	4965	6682	8346	9826
-33.0	0	59	381	929	1917	3148	4286	5716	7140	8369
-37.5	0	55	353	847	1672	2686	3559	4662	5814	6818
-42.5	0	51	318	759	1407	2198	2834	3611	4427	5167
-47.5	0	45	278	668	1195	1775	2241	2783	3290	3796
-55.0	0	36	218	529	916	1271	1531	1833	2121	2376
-65.0	0	26	141	340	586	779	912	1036	1142	1225
-75.0	0	16	75	168	290	385	453	515	565	600
-85.0	0	5	23	43	74	99	114	126	136	143
-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	1	1	1	1	0	0	0
75.0	18	12	7	2	1	1	1	0	0	0
65.0	299	292	294	289	285	283	279	272	263	252
55.0	1167	1253	1337	1400	1446	1482	1507	1526	1542	1553
47.5	2129	2334	2492	2623	2726	2808	2854	2934	2999	3047
42.5	3374	3672	3946	4135	4305	4452	4562	4671	4771	4842
37.5	4955	5401	5836	6155	6387	6639	6829	7025	7159	7247
33.0	6628	7257	7862	8392	8772	9094	9392	9664	9880	10010
29.0	8231	9082	9929	10613	11152	11795	12362	12865	13250	13625
25.5	9770	10908	12091	13103	14237	15413	16438	17783	18937	19744
22.5	11241	12724	14539	16441	18375	20684	22793	25153	27062	28342
19.5	12785	14971	18081	21710	24808	28098	31515 *	35152 *	38104 *	40059 *
17.0	14120	17492	22294	27238	31294 *	36361 *	41034 *	46181 *	50684 *	54213 *
15.0	15560	19962	26053	32076 *	37868 *	43794 *	50620 *	56780 *	64289 *	70583 *
13.0	17121	22668	30165 *	37874 *	44545 *	52436 *	61836 *	72817 *	82818 *	95562 *
11.0	18518	25259	34056 *	43109 *	52031 *	62455 *	75913 *	94526 *	113184 *	130938 *
9.0	20218	27927	38173 *	48942 *	59012 *	73858 *	94799 *	120536 *	153938 *	182808 *
7.0	21732	30249 *	41822 *	54628 *	68275 *	86510 *	115491 *	153490 *	194861 *	223393 *
5.0	23181	32406 *	44943 *	59865 *	76637 *	102822 *	139163 *	185473 *	222043 *	252553 *
3.0	24334	34170 *	47914 *	63756 *	82012 *	114123 *	158648 *	206861 *	246639 *	264833 *
1.0	25024	35278 *	49563 *	65918 *	84508 *	119046 *	167459 *	215651 *	253306 *	274667 *
0.0	25204	35424 *	49761 *	66169 *	84514 *	119858 *	170630 *	219278 *	255227 *	274887 *
-1.0	25246	35479 *	49922 *	66539 *	86331 *	122679 *	171941 *	219119 *	255070 *	275238 *
-3.0	25072	35023 *	49089 *	64832 *	84534 *	118654 *	163649 *	211312 *	250324 *	268408 *
-5.0	24581	34172 *	47078 *	61436 *	79620 *	107312 *	144507 *	194525 *	231465 *	256999 *
-7.0	23718	32704 *	44692 *	57811 *	72378 *	92129 *	124931 *	166468 *	206294 *	230574 *
-9.0	22361	30591 *	41545 *	53107 *	64067 *	80758 *	104773 *	134658 *	167042 *	195393 *
-11.0	20747	27970	37707 *	47649 *	57627 *	69721 *	85134 *	105853 *	127820 *	149251 *
-13.0	19442	25558	34005 *	42641 *	50264 *	59777 *	70304 *	82083 *	94905 *	111788 *
-15.0	17853	22816	30001 *	37097 *	43735 *	50558 *	58401 *	65422 *	74709 *	83067 *
-17.0	16325	20177	26044	32041 *	37289 *	43104 *	48512 *	54461 *	59841 *	64590 *
-19.5	14891	17614	21520	26111	30235 *	34587 *	38581 *	42764 *	46254 *	49100 *
-22.5	13474	15236	17724	20512	23282	26082	28672 *	31469 *	33678 *	35514 *
-25.5	12310	13513	15035	16597	18159	19777	21201	22882	24325	25609
-29.0	10975	11999	13012	13788	14413	15277	15987	16561	17197	17894
-33.0	9435	10296	11084	11716	12179	12577	12923	13217	13485	13712
-37.5	7664	8393	9059	9558	9916	10246	10537	10783	10967	11103
-42.5	5816	6356	6887	7292	7572	7823	8042	8226	8375	8488
-47.5	4215	4604	4952	5219	5432	5626	5797	5923	6020	6087
-55.0	2594	2763	2918	3044	3136	3217	3287	3343	3386	3417
-65.0	1296	1352	1409	1450	1479	1504	1526	1544	1559	1570
-75.0	629	650	667	680	688	699	709	718	726	736
-85.0	149	154	159	162	165	166	171	170	170	170
-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	1	1
75.0	0	0	0	0	0	0	0	0	1	1
65.0	249	242	238	242	249	252	263	272	279	283

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CANDELA TABULATION - (Cont.)

55.0	1576	1586	1591	1586	1576	1553	1542	1526	1507	1482
47.5	3096	3078	3069	3078	3096	3047	2999	2934	2854	2808
42.5	4917	4893	4881	4893	4917	4842	4771	4671	4562	4452
37.5	7288	7294	7270	7294	7288	7247	7159	7025	6829	6639
33.0	10071	10191	10235	10191	10071	10010	9880	9664	9392	9094
29.0	13837	14097	14209	14097	13837	13625	13250	12865	12362	11795
25.5	20201	20668	20908	20668	20201	19744	18937	17783	16438	15413
22.5	29139 *	29835 *	30096 *	29835 *	29139 *	28342	27062	25153	22793	20684
19.5	41800 *	42983 *	43347 *	42983 *	41800 *	40059 *	38104 *	35152 *	31515 *	28098
17.0	57627 *	59824 *	59485 *	59824 *	57627 *	54213 *	50684 *	46181 *	41034 *	36361 *
15.0	74761 *	77929 *	76959 *	77929 *	74761 *	70583 *	64289 *	56780 *	50620 *	43794 *
13.0	104531 *	111408 *	110203 *	111408 *	104531 *	95562 *	82818 *	72817 *	61836 *	52436 *
11.0	149516 *	161006 *	159888 *	161006 *	149516 *	130938 *	113184 *	94526 *	75913 *	62455 *
9.0	200318 *	211484 *	210688 *	211484 *	200318 *	182808 *	153938 *	120536 *	94799 *	73858 *
7.0	244327 *	251383 *	250803 *	251383 *	244327 *	223393 *	194861 *	153490 *	115491 *	86510 *
5.0	264666 *	272633 *	271961 *	272633 *	264666 *	252553 *	222043 *	185473 *	139163 *	102822 *
3.0	276632 *	280506 *	280762 *	280506 *	276632 *	264833 *	246639 *	206861 *	158648 *	114123 *
1.0	282045 *	284555 *	284249 *	284555 *	282045 *	274667 *	253306 *	215651 *	167459 *	119046 *
0.0	283032 *	285091 *	285107 *	285091 *	283032 *	274887 *	255227 *	219278 *	170630 *	119858 *
-1.0	282877 *	285813 *	285840 *	285813 *	282877 *	275238 *	255070 *	219119 *	171941 *	122679 *
-3.0	279180 *	284204 *	285161 *	284204 *	279180 *	268408 *	250324 *	211312 *	163649 *	118654 *
-5.0	268686 *	277122 *	278047 *	277122 *	268686 *	256999 *	231465 *	194525 *	144507 *	107312 *
-7.0	251703 *	258333 *	260072 *	258333 *	251703 *	230574 *	206294 *	166468 *	124931 *	92129 *
-9.0	215306 *	225409 *	224263 *	225409 *	215306 *	195393 *	167042 *	134658 *	104773 *	80758 *
-11.0	169997 *	179428 *	177431 *	179428 *	169997 *	149251 *	127820 *	105853 *	85134 *	69721 *
-13.0	124589 *	129051 *	128822 *	129051 *	124589 *	111788 *	94905 *	82083 *	70304 *	59777 *
-15.0	88497 *	90576 *	90114 *	90576 *	88497 *	83067 *	74709 *	65422 *	58401 *	50558 *
-17.0	68251 *	70060 *	70133 *	70060 *	68251 *	64590 *	59841 *	54461 *	48512 *	43104 *
-19.5	51472 *	52664 *	52756 *	52664 *	51472 *	49100 *	46254 *	42764 *	38581 *	34587 *
-22.5	37039 *	37954 *	37998 *	37954 *	37039 *	35514 *	33678 *	31469 *	28672 *	26082
-25.5	26580	27112	27209	27112	26580	25609	24325	22882	21201	19777
-29.0	18399	18787	18911	18787	18399	17894	17197	16561	15987	15277
-33.0	13875	13960	13977	13960	13875	13712	13485	13217	12923	12577
-37.5	11191	11299	11325	11299	11191	11103	10967	10783	10537	10246
-42.5	8599	8567	8551	8567	8599	8488	8375	8226	8042	7823
-47.5	6163	6165	6166	6165	6163	6087	6020	5923	5797	5626
-55.0	3452	3453	3454	3453	3452	3417	3386	3343	3287	3217
-65.0	1578	1573	1571	1573	1578	1570	1559	1544	1526	1504
-75.0	737	738	739	738	737	736	726	718	709	699
-85.0	168	167	166	167	168	170	170	170	171	166
-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	1	1	1	1	1	2	3	5	8	9
75.0	1	2	7	12	18	28	34	47	57	63
65.0	285	289	294	292	299	308	308	295	280	263
55.0	1446	1400	1337	1253	1167	1070	956	835	713	591
47.5	2726	2623	2492	2334	2129	1940	1703	1437	1176	933
42.5	4305	4135	3946	3672	3374	2982	2567	2121	1680	1297
37.5	6387	6155	5836	5401	4955	4380	3696	3000	2310	1746
33.0	8772	8392	7862	7257	6628	5854	4922	3950	2988	2198
29.0	11152	10613	9929	9082	8231	7312	6126	4904	3666	2657
25.5	14237	13103	12091	10908	9770	8595	7231	5779	4348	3066

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CANDELA TABULATION - (Cont.)

22.5	18375	16441	14539	12724	11241	9781	8181	6526	4901	3457
19.5	24808	21710	18081	14971	12785	10895	9060	7260	5429	3827
17.0	31294 *	27238	22294	17492	14120	11889	9769	7830	5839	4128
15.0	37868 *	32076 *	26053	19962	15560	12687	10319	8252	6156	4347
13.0	44545 *	37874 *	30165 *	22668	17121	13416	10817	8664	6450	4545
11.0	52031 *	43109 *	34056 *	25259	18518	14094	11321	9040	6721	4724
9.0	59012 *	48942 *	38173 *	27927	20218	14713	11794	9358	6971	4881
7.0	68275 *	54628 *	41822 *	30249 *	21732	15532	12222	9624	7196	5017
5.0	76637 *	59865 *	44943 *	32406 *	23181	16387	12584	9840	7393	5134
3.0	82012 *	63756 *	47914 *	34170 *	24334	17059	12864	10015	7549	5269
1.0	84508 *	65918 *	49563 *	35278 *	25024	17348	12983	10164	7575	5327
0.0	84514 *	66169 *	49761 *	35424 *	25204	17407	13016	10212	7588	5357
-1.0	86331 *	66539 *	49922 *	35479 *	25246	17444	13031	10263	7627	5382
-3.0	84534 *	64832 *	49089 *	35023 *	25072	17368	13011	10312	7706	5433
-5.0	79620 *	61436 *	47078 *	34172 *	24581	17181	12994	10301	7667	5406
-7.0	72378 *	57811 *	44692 *	32704 *	23718	16784	12904	10230	7627	5376
-9.0	64067 *	53107 *	41545 *	30591 *	22361	16306	12723	10110	7548	5317
-11.0	57627 *	47649 *	37707 *	27970	20747	15733	12453	9945	7430	5229
-13.0	50264 *	42641 *	34005 *	25558	19442	15045	12157	9733	7274	5113
-15.0	43735 *	37097 *	30001 *	22816	17853	14248	11865	9464	7067	4967
-17.0	37289 *	32041 *	26044	20177	16325	13620	11519	9161	6814	4793
-19.5	30235 *	26111	21520	17614	14891	12855	10942	8716	6487	4571
-22.5	23282	20512	17724	15236	13474	11923	10157	8112	6041	4284
-25.5	18159	16597	15035	13513	12310	10953	9358	7472	5569	3953
-29.0	14413	13788	13012	11999	10975	9826	8346	6682	4965	3593
-33.0	12179	11716	11084	10296	9435	8369	7140	5716	4286	3148
-37.5	9916	9558	9059	8393	7664	6818	5814	4662	3559	2686
-42.5	7572	7292	6887	6356	5816	5167	4427	3611	2834	2198
-47.5	5432	5219	4952	4604	4215	3796	3290	2783	2241	1775
-55.0	3136	3044	2918	2763	2594	2376	2121	1833	1531	1271
-65.0	1479	1450	1409	1352	1296	1225	1142	1036	912	779
-75.0	688	680	667	650	629	600	565	515	453	385
-85.0	165	162	159	154	149	143	136	126	114	99
-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	10	10	9	4	0
75.0	68	56	36	11	0
65.0	225	152	78	18	0
55.0	451	284	135	27	0
47.5	663	395	183	36	0
42.5	848	480	218	42	0
37.5	1091	570	253	46	0
33.0	1338	660	283	51	0
29.0	1561	740	313	54	0
25.5	1776	812	338	57	0
22.5	1949	869	358	59	0
19.5	2117	929	376	60	0
17.0	2260	976	391	62	0
15.0	2366	1011	401	63	0
13.0	2465	1043	412	64	0
11.0	2555	1073	421	66	0
9.0	2637	1099	430	66	0

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

CANDELA TABULATION - (Cont.)

7.0	2709	1122	437	66	0
5.0	2764	1142	447	67	0
3.0	2820	1163	452	67	0
1.0	2843	1174	456	67	0
0.0	2854	1179	458	67	0
-1.0	2866	1185	460	67	0
-3.0	2891	1195	464	68	0
-5.0	2880	1197	468	68	0
-7.0	2870	1198	466	68	0
-9.0	2851	1197	466	69	0
-11.0	2820	1191	465	69	0
-13.0	2779	1182	463	67	0
-15.0	2727	1168	460	67	0
-17.0	2665	1151	456	67	0
-19.5	2573	1125	449	66	0
-22.5	2454	1088	437	65	0
-25.5	2307	1050	424	63	0
-29.0	2117	995	406	61	0
-33.0	1917	929	381	59	0
-37.5	1672	847	353	55	0
-42.5	1407	759	318	51	0
-47.5	1195	668	278	45	0
-55.0	916	529	218	36	0
-65.0	586	340	141	26	0
-75.0	290	168	75	16	0
-85.0	74	43	23	5	0
-90.0	0	0	0	0	0

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

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 39094.27

Total Field Lumens (one side of beam only) = 28055.83

* 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	0.01	0.01	0.01	0.02
65	0.37	0.75	0.76	0.78	0.81	0.83	0.84	0.84	0.84	1.07
55	2.78	5.56	5.52	5.47	5.43	5.38	5.29	5.17	5.01	6.00
47.5	5.33	10.66	10.57	10.38	10.18	9.92	9.67	9.38	9.00	10.65
42.5	6.06	12.16	12.08	11.86	11.59	11.26	10.93	10.56	10.09	11.93
37.5	9.27	18.56	18.45	18.19	17.82	17.31	16.75	16.10	15.36	18.14
33	11.99	23.87	23.67	23.38	22.89	22.21	21.42	20.54	19.57	22.98
29	14.84	29.34	28.89	28.33	27.54	26.57	25.41	24.12	22.80	26.61
25.5	18.63	36.65	35.84	34.75	33.17	31.21	29.20	27.20	25.16	28.94
22.5	23.19	45.59	44.41	42.75	40.24	36.97	33.67	30.46	27.30	30.47
19.5	33.41 *	65.64 *	63.51 *	60.69 *	56.77 *	51.57 *	46.07	40.77	35.72	38.39
17	39.15 *	76.95 *	73.57 *	69.32 *	64.14 *	57.70 *	51.03 *	44.54 *	38.45	40.37
15	41.76 *	82.24 *	78.15 *	72.63 *	65.74 *	58.38 *	51.19 *	44.13 *	37.62 *	38.93
13	57.34 *	112.22 *	104.96 *	94.89 *	83.46 *	72.61 *	62.18 *	52.80 *	44.61 *	45.62 *
11	82.62 *	160.26 *	146.02 *	127.99 *	109.60 *	91.52 *	75.27 *	62.50 *	51.99 *	52.50 *
9	113.17 *	219.89 *	201.64 *	175.96 *	145.44 *	115.72 *	91.48 *	73.11 *	59.47 *	59.40 *
7	140.78 *	276.26 *	258.54 *	228.71 *	187.87 *	145.28 *	110.44 *	85.02 *	67.60 *	66.38 *
5	159.43 *	314.46 *	299.28 *	270.47 *	228.00 *	178.07 *	132.28 *	98.79 *	75.95 *	72.77 *
3	168.42 *	333.16 *	321.69 *	298.71 *	259.71 *	207.03 *	153.37 *	111.01 *	82.65 *	78.28 *
1	172.11 *	342.08 *	333.69 *	314.88 *	278.25 *	224.57 *	166.63 *	118.13 *	86.73 *	82.14 *
0	86.74 *	172.71 *	169.35 *	160.26 *	142.29 *	115.94 *	85.96 *	60.28 *	44.08 *	41.84 *
-1	86.95 *	173.03 *	169.56 *	160.62 *	143.08 *	117.14 *	87.17 *	61.09 *	44.44 *	42.02 *
	173.78 *	344.62 *	335.98 *	317.79 *	282.28 *	229.79 *	171.89 *	121.83 *	88.50 *	83.30 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	171.27 *	337.66 *	326.12 *	305.11 *	267.74 *	214.18 *	159.14 *	115.30 *	85.04 *	80.43 *
-5	163.51 *	321.42 *	306.28 *	280.31 *	240.93 *	189.11 *	139.70 *	103.87 *	79.42 *	76.30 *
-7	147.44 *	289.42 *	271.34 *	242.14 *	203.44 *	159.24 *	119.95 *	91.42 *	72.43 *	71.29 *
-9	122.84 *	240.53 *	221.80 *	193.73 *	161.49 *	129.11 *	101.42 *	80.44 *	65.13 *	65.09 *
-11	93.62 *	183.58 *	168.83 *	146.55 *	123.87 *	103.00 *	84.90 *	70.16 *	58.03 *	58.58 *
-13	66.79 *	131.72 *	123.96 *	110.41 *	95.66 *	82.86 *	71.22 *	60.39 *	50.87 *	51.98 *
-15	48.87 *	96.62 *	92.50 *	85.49 *	76.75 *	68.03 *	59.76 *	51.63 *	43.97 *	45.26 *
-17	46.76 *	92.26 *	88.66 *	83.23 *	76.66 *	69.11 *	61.37 *	53.65 *	46.00 *	47.78
-19.5	41.43 *	81.79 *	78.91 *	74.77 *	69.75 *	63.66 *	57.17 *	50.62	43.98	46.57
-22.5	29.76 *	58.76 *	56.86 *	54.13 *	50.84	46.90	42.78	38.70	34.50	37.90
-25.5	24.53	48.41	47.05	45.07	42.74	40.23	37.67	34.98	32.26	36.97
-29	19.99	39.59	38.82	37.74	36.47	35.21	33.83	32.18	30.51	35.87
-33	17.33	34.47	34.10	33.58	32.88	32.03	31.03	29.87	28.57	33.70
-37.5	15.13	30.18	29.92	29.49	28.92	28.19	27.30	26.27	25.14	29.65
-42.5	11.21	22.45	22.29	21.94	21.52	20.99	20.33	19.55	18.68	22.01
-47.5	10.99	21.96	21.79	21.48	21.12	20.64	20.03	19.30	18.48	21.88
-55	7.65	15.31	15.22	15.04	14.83	14.55	14.20	13.80	13.34	15.95
-65	3.52	7.04	7.02	6.95	6.86	6.74	6.61	6.46	6.29	7.60
-75	1.38	2.75	2.75	2.73	2.69	2.65	2.60	2.54	2.48	3.02
-85	0.13	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.24	0.29
-90										
Total	2492.26	4912.86	4690.58	4319.00	3791.74	3153.68	2529.38	2019.75	1648.28	1686.86

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	0.04	0.02
85	0.04	0.07	0.12	0.17	0.25	0.34	0.37	0.54	0.55	0.29
75	1.29	1.30	1.55	1.77	1.91	1.98	1.78	2.21	1.91	0.84
65	6.77	6.28	6.74	6.90	6.70	6.19	4.97	5.47	4.23	1.69
55	11.86	10.77	11.21	11.10	10.35	9.10	6.89	7.07	5.11	1.95

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	13.27	12.01	12.35	12.00	10.95	9.35	6.84	6.68	4.54	1.66
42.5	20.11	18.16	18.59	17.78	15.93	13.28	9.47	8.90	5.68	1.98
37.5	25.29	22.76	23.26	22.15	19.60	16.07	11.19	10.25	6.26	2.07
33	29.11	26.04	26.56	25.28	22.27	18.09	12.39	11.08	6.54	2.08
29	31.36	27.75	28.12	26.74	23.54	19.08	12.94	11.33	6.51	2.01
25.5	32.16	27.95	27.99	26.46	23.26	18.86	12.74	10.98	6.17	1.86
22.5	38.59	32.38	31.77	29.70	26.04	21.10	14.22	12.16	6.69	1.98
19.5	38.83	30.97	29.43	27.16	23.73	19.21	12.94	11.01	5.97	1.74
17	36.60	28.02	25.71	23.32	20.24	16.37	11.02	9.36	5.03	1.45
15	42.16	31.43	27.85	24.66	21.29	17.22	11.57	9.80	5.24	1.49
13	47.83	34.88	29.92	25.92	22.29	18.01	12.08	10.21	5.43	1.53
11	53.49 *	38.37	32.00	27.11	23.23	18.71	12.54	10.57	5.60	1.57
9	58.93 *	41.79	34.21	28.33	24.06	19.33	12.95	10.89	5.76	1.61
7	63.73 *	44.90	36.41	29.62	24.77	19.86	13.32	11.16	5.88	1.64
5	68.00 *	47.62	38.36	30.75	25.35	20.29	13.64	11.42	6.00	1.67
3	71.20 *	49.59 *	39.69	31.46	25.75	20.59	13.85	11.62	6.08	1.69
1	36.26 *	25.24 *	20.13	15.86	12.98	10.36	6.96	5.85	3.06	0.85
0	36.38 *	25.32 *	20.21	15.90	13.02	10.41	6.99	5.88	3.07	0.85
-1	72.30 *	50.43 *	40.34	31.77	26.09	20.94	14.08	11.84	6.19	1.72
-3	70.53 *	49.60 *	39.90	31.62	26.09	20.99	14.11	11.87	6.21	1.73
-5	67.67 *	48.07 *	38.98	31.26	25.98	20.89	14.04	11.81	6.19	1.73
-7	63.78 *	45.65	37.51	30.66	25.72	20.71	13.93	11.73	6.17	1.73
-9	58.78 *	42.43	35.61	29.87	25.31	20.43	13.74	11.59	6.13	1.73
-11	53.42 *	39.12	33.63	28.92	24.78	20.05	13.48	11.39	6.06	1.72
-13	47.93	35.76	31.55	27.84	24.18	19.56	13.15	11.14	5.98	1.70
-15	42.24	32.21	29.40	26.76	23.51	18.96	12.73	10.83	5.86	1.68
-17	45.51	36.00	34.17	31.94	28.22	22.73	15.25	13.04	7.14	2.07
-19.5	46.13	38.32	37.77	35.93	31.83	25.68	17.27	14.88	8.26	2.42

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	39.35	34.14	34.59	33.20	29.46	23.79	16.03	13.93	7.87	2.34
-25.5	39.98	35.64	36.54	35.16	31.20	25.20	17.03	14.97	8.61	2.62
-29	39.57	35.65	36.59	35.17	31.21	25.25	17.22	15.40	9.06	2.82
-33	37.27	33.61	34.42	33.06	29.38	23.91	16.57	15.15	9.18	2.94
-37.5	32.73	29.46	30.17	29.01	25.90	21.38	15.18	14.22	8.91	2.96
-42.5	24.31	21.90	22.50	21.77	19.74	16.72	12.18	11.74	7.66	2.63
-47.5	24.37	22.19	23.07	22.68	21.04	18.34	13.76	13.82	9.43	3.30
-55	18.00	16.71	17.75	17.92	17.16	15.49	12.09	12.69	9.02	3.19
-65	8.70	8.20	8.88	9.22	9.12	8.50	6.81	7.29	5.26	1.88
-75	3.48	3.30	3.60	3.77	3.75	3.52	2.83	3.03	2.19	0.80
-85	0.33	0.32	0.35	0.36	0.37	0.35	0.29	0.31	0.22	0.09
-90										
Total	1599.67	1242.29	1129.5	1008.02	877.55	717.23	493.43	437.14	252.97	78.30

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		0.18
85				
	0.08	0.00		2.86
75				
	0.19	0.00		24.62
65				
	0.34	0.01		107.89
55				
	0.38	0.01		181.51
47.5				
	0.32	0.01		198.51
42.5				
	0.37	0.01		296.20
37.5				
	0.38	0.01		371.80
33				
	0.37	0.01		434.30
29				
	0.35	0.01		490.49
25.5				
	0.32	0.01		543.79
22.5				
	0.34	0.01		707.53
19.5				
	0.29	0.01		756.52
17				
	0.24	0.00		748.12

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

LUMENS TABULATION - (Cont.)

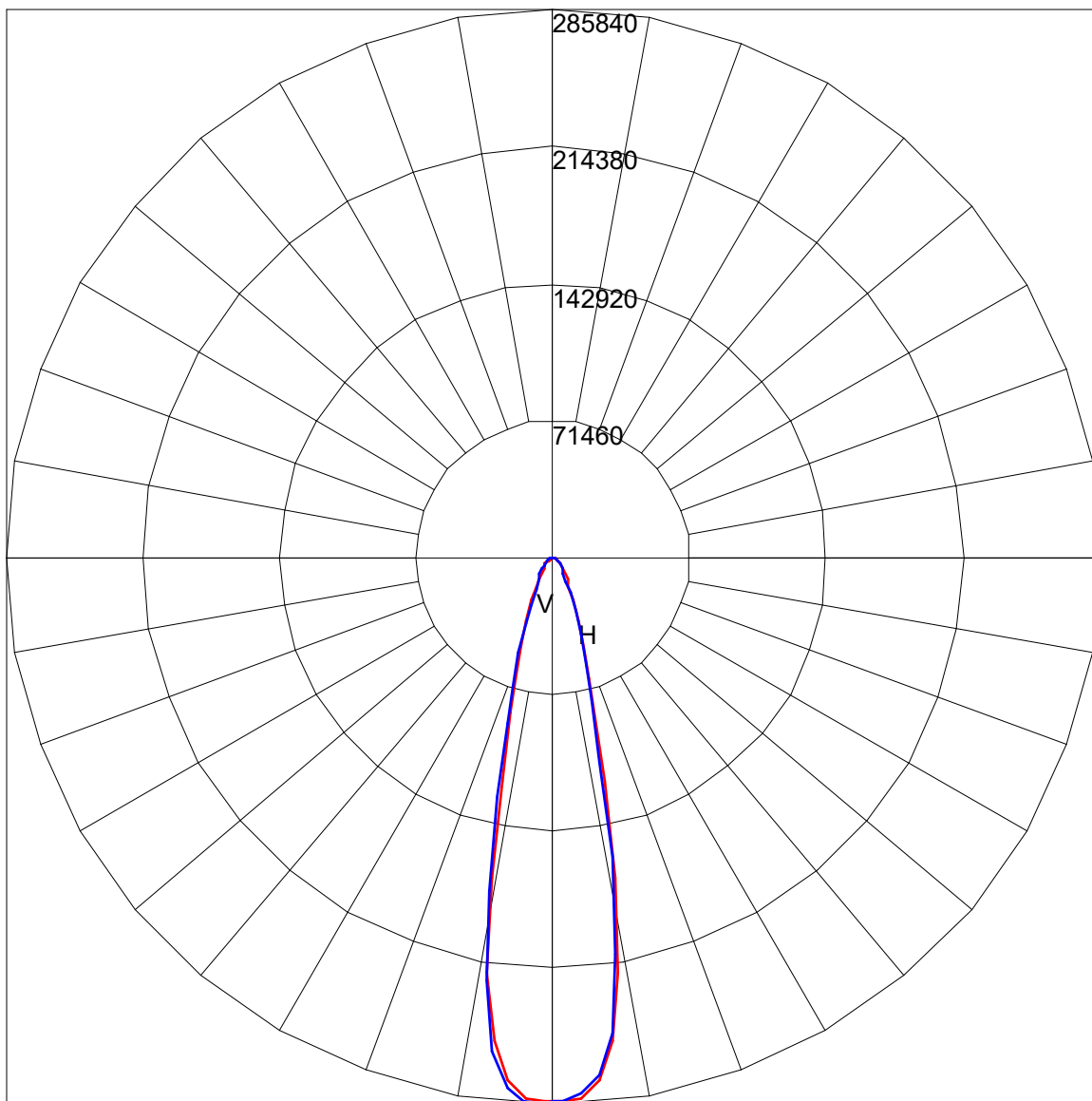
15	0.25	0.00	923.68
13	0.25	0.00	1168.65
11	0.26	0.00	1478.74
9	0.26	0.00	1805.00
7	0.27	0.00	2081.07
5	0.27	0.00	2277.42
3	0.28	0.00	2391.00
1	0.14	0.00	1217.14
0	0.14	0.00	1223.26
-1	0.28	0.00	2425.73
-3	0.28	0.00	2334.92
-5	0.28	0.00	2167.77
-7	0.28	0.00	1925.99
-9	0.28	0.00	1627.49
-11	0.28	0.00	1323.98
-13	0.28	0.00	1064.92
-15	0.28	0.00	873.33
-17	0.34	0.01	901.89
-19.5	0.40	0.01	867.57
-22.5	0.39	0.01	686.22
-25.5	0.44	0.01	637.30
-29	0.48	0.01	588.63
-33	0.50	0.01	543.55
-37.5	0.51	0.01	480.61
-42.5	0.46	0.01	362.59
-47.5	0.57	0.01	370.25
-55	0.56	0.01	280.46
-65	0.34	0.01	139.31

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

LUMENS TABULATION - (Cont.)

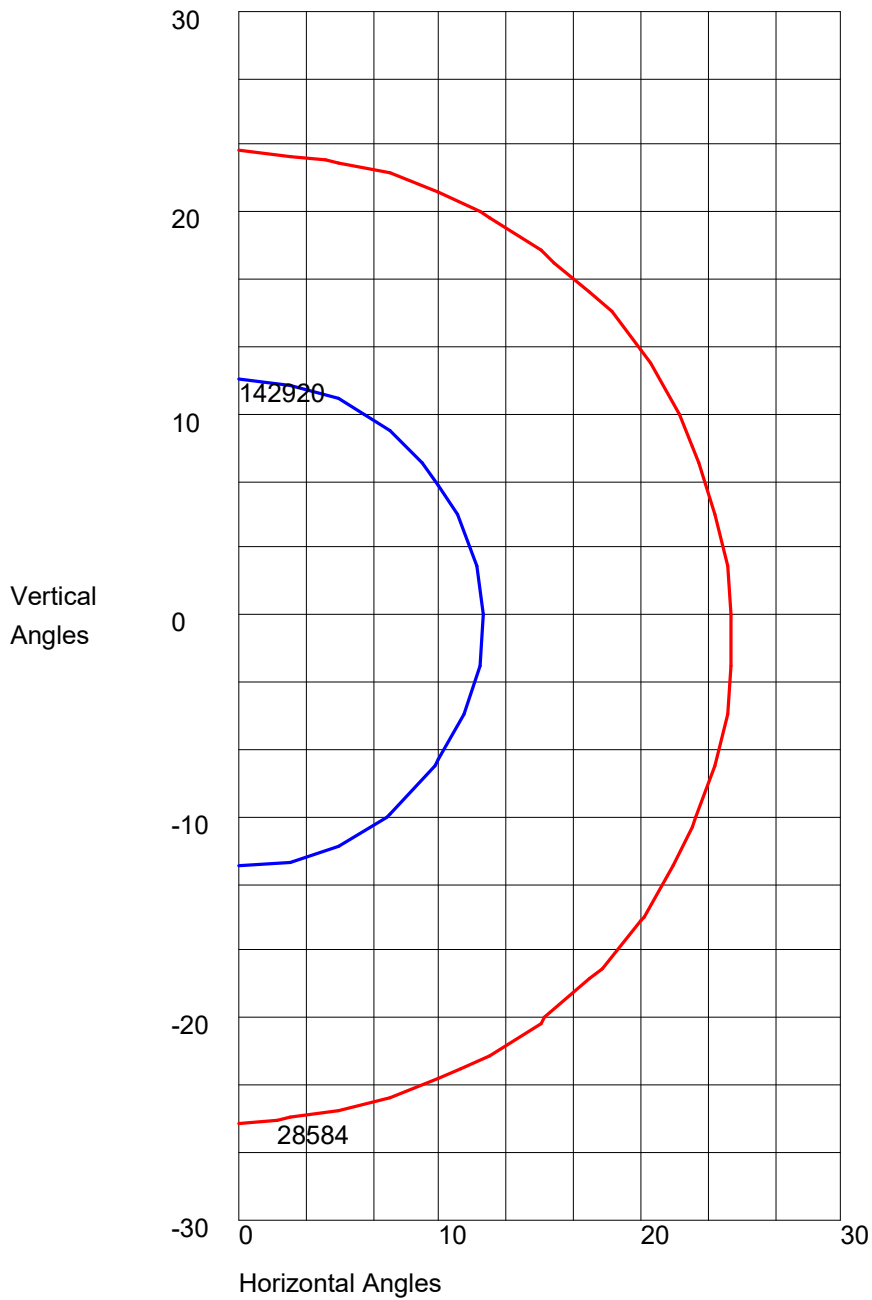
-75	0.16	0.00	56.03
-85	0.02	0.00	5.43
-90			
Total	13.52	0.24	39094.24

AXIAL CANDELA DISPLAY



Maximum Candela = 285840 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 285840 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 142920
10% Maximum Candela = 28584