



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-100L-NF-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13165
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 01/04/22
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] ZNF-100L-NF-40
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLOR TEMP] 4000

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

CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	354789
Maximum Candela Angle	-1H 0V
Horizontal Beam Angle (50%)	23.8
Vertical Beam Angle (50%)	23.8
Horizontal Field Angle (10%)	49.9
Vertical Field Angle (10%)	50.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	36333
Beam Efficiency	N.A.
Field Lumens	70910
Field Efficiency	N.A.
Spill Lumens	31546
Luminaire Lumens	102456
Total Efficiency	N.A.
Total Luminaire Watts	765
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	206	85	210
75	914	75	925
65	1922	65	1957
55	4185	55	4234
47.5	7749	47.5	7723
42.5	10995	42.5	10999
37.5	14048	37.5	14192
33	17783	33	17847
29	23570	29	23742
25.5	33216	25.5	33591
22.5	45707	22.5	46165
19.5	62791	19.5	63411
17	82445	17	83248
15	105531	15	105475
13	145978	13	148605
11	202523	11	204967
9	262406	9	262781
7	312970	7	311188
5	341662	5	340256
3	352633	3	351508
1	354789	1	354367
0	354397	0	354397
-1	354789	-1	354367
-3	352633	-3	351508
-5	341662	-5	340256
-7	312970	-7	311188
-9	262406	-9	262781
-11	202523	-11	204967
-13	145978	-13	148605
-15	105531	-15	105475
-17	82445	-17	83248
-19.5	62791	-19.5	63411
-22.5	45707	-22.5	46165
-25.5	33216	-25.5	33591
-29	23570	-29	23742
-33	17783	-33	17847
-37.5	14048	-37.5	14192
-42.5	10995	-42.5	10999
-47.5	7749	-47.5	7723
-55	4185	-55	4234
-65	1922	-65	1957
-75	914	-75	925
-85	206	-85	210
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 354789

Beam Edge = 177394.5 Cd (50% of Max.)

Field Edge = 35478.9 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	16	47	71	101	125	139	152	163	172
75.0	0	47	151	274	417	526	596	656	707	757
65.0	0	76	279	535	830	1043	1184	1322	1446	1542
55.0	0	107	418	835	1275	1660	1951	2296	2630	2910
47.5	0	131	520	1039	1660	2307	2860	3493	4102	4713
42.5	0	146	591	1170	1948	2856	3613	4543	5525	6458
37.5	0	159	655	1299	2283	3485	4528	5895	7330	8674
33.0	0	170	707	1416	2615	4078	5508	7316	9122	10736
29.0	0	178	755	1516	2903	4692	6442	8650	10776	12647
25.5	0	185	793	1602	3163	5216	7319	9808	12114	13893
22.5	0	190	821	1664	3364	5714	8034	10744	13097	15225
19.5	0	194	847	1728	3550	6163	8718	11567	13955	16540
17.0	0	197	864	1774	3706	6517	9218	12179	14739	17598
15.0	0	199	876	1807	3815	6783	9582	12620	15311	18429
13.0	0	201	887	1836	3910	7016	9908	12973	15804	19444
11.0	0	207	895	1860	3990	7217	10192	13275	16289	20336
9.0	0	207	902	1881	4056	7385	10431	13524	16742	21096
7.0	0	206	908	1897	4108	7518	10623	13721	17112	21908
5.0	0	206	916	1909	4148	7620	10767	13866	17380	22674
3.0	0	206	915	1922	4190	7739	10945	13969	17561	23186
1.0	0	206	914	1922	4187	7746	10978	14041	17732	23505
0.0	0	206	914	1922	4185	7749	10995	14048	17783	23570
-1.0	0	206	914	1922	4187	7746	10978	14041	17732	23505
-3.0	0	206	915	1922	4190	7739	10945	13969	17561	23186
-5.0	0	206	916	1909	4148	7620	10767	13866	17380	22674
-7.0	0	206	908	1897	4108	7518	10623	13721	17112	21908
-9.0	0	207	902	1881	4056	7385	10431	13524	16742	21096
-11.0	0	207	895	1860	3990	7217	10192	13275	16289	20336
-13.0	0	201	887	1836	3910	7016	9908	12973	15804	19444
-15.0	0	199	876	1807	3815	6783	9582	12620	15311	18429
-17.0	0	197	864	1774	3706	6517	9218	12179	14739	17598
-19.5	0	194	847	1728	3550	6163	8718	11567	13955	16540
-22.5	0	190	821	1664	3364	5714	8034	10744	13097	15225
-25.5	0	185	793	1602	3163	5216	7319	9808	12114	13893
-29.0	0	178	755	1516	2903	4692	6442	8650	10776	12647
-33.0	0	170	707	1416	2615	4078	5508	7316	9122	10736
-37.5	0	159	655	1299	2283	3485	4528	5895	7330	8674
-42.5	0	146	591	1170	1948	2856	3613	4543	5525	6458
-47.5	0	131	520	1039	1660	2307	2860	3493	4102	4713
-55.0	0	107	418	835	1275	1660	1951	2296	2630	2910
-65.0	0	76	279	535	830	1043	1184	1322	1446	1542
-75.0	0	47	151	274	417	526	596	656	707	757
-85.0	0	16	47	71	101	125	139	152	163	172
-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	180	186	193	197	201	203	209	209	209	209
75.0	796	822	843	858	869	882	895	907	917	931
65.0	1626	1687	1751	1799	1833	1864	1890	1911	1928	1941
55.0	3175	3382	3577	3740	3858	3963	4050	4119	4174	4214
47.5	5225	5717	6162	6516	6796	7042	7255	7435	7579	7687
42.5	7359	8077	8747	9242	9611	9945	10236	10483	10683	10834
37.5	9820	10748	11606	12265	12736	13085	13391	13649	13838	13973
33.0	12118	13147	14010	14818	15449	15999	16490	16908	17241	17493
29.0	13908	15204	16534	17627	18497	19567	20462	21228	22073	22877
25.5	15685	17349	19287	21108	22990	24929	26651	28822	30737	32100
22.5	17385	19672	22703	25974	29168	32507	35483 *	38851 *	41731 *	43942 *
19.5	19315	22701	27554	33059	37789 *	42764 *	47293 *	51947 *	56086 *	59387 *
17.0	21067	25913	32942	40116 *	46126 *	52926 *	59036 *	65723 *	71739 *	76477 *
15.0	22894	28998	37515 *	45967 *	53970 *	61876 *	70529 *	78531 *	89199 *	97584 *
13.0	24780	32226	42338 *	52534 *	61614 *	72267 *	83936 *	97560 *	111952 *	128992 *
11.0	26450	35167	46915 *	58660 *	70207 *	83817 *	100184 *	122754 *	146808 *	170982 *
9.0	28539	38593 *	51834 *	65532 *	78196 *	97230 *	122606 *	152261 *	191756 *	226121 *
7.0	30400	41442 *	56071 *	71498 *	88154 *	110566 *	146219 *	190910 *	236292 *	274230 *
5.0	31821	43608 *	59328 *	76238 *	96423 *	127401 *	169954 *	224894 *	274136 *	310469 *
3.0	32788	45071 *	61695 *	80135 *	102083 *	139119 *	190451 *	248294 *	300932 *	329197 *
1.0	33207	45802 *	62800 *	82338 *	105326 *	145026 *	201191 *	260049 *	309773 *	340517 *
0.0	33216	45707 *	62791 *	82445 *	105531 *	145978 *	202523 *	262406 *	312970 *	341662 *
-1.0	33207	45802 *	62800 *	82338 *	105326 *	145026 *	201191 *	260049 *	309773 *	340517 *
-3.0	32788	45071 *	61695 *	80135 *	102083 *	139119 *	190451 *	248294 *	300932 *	329197 *
-5.0	31821	43608 *	59328 *	76238 *	96423 *	127401 *	169954 *	224894 *	274136 *	310469 *
-7.0	30400	41442 *	56071 *	71498 *	88154 *	110566 *	146219 *	190910 *	236292 *	274230 *
-9.0	28539	38593 *	51834 *	65532 *	78196 *	97230 *	122606 *	152261 *	191756 *	226121 *
-11.0	26450	35167	46915 *	58660 *	70207 *	83817 *	100184 *	122754 *	146808 *	170982 *
-13.0	24780	32226	42338 *	52534 *	61614 *	72267 *	83936 *	97560 *	111952 *	128992 *
-15.0	22894	28998	37515 *	45967 *	53970 *	61876 *	70529 *	78531 *	89199 *	97584 *
-17.0	21067	25913	32942	40116 *	46126 *	52926 *	59036 *	65723 *	71739 *	76477 *
-19.5	19315	22701	27554	33059	37789 *	42764 *	47293 *	51947 *	56086 *	59387 *
-22.5	17385	19672	22703	25974	29168	32507	35483 *	38851 *	41731 *	43942 *
-25.5	15685	17349	19287	21108	22990	24929	26651	28822	30737	32100
-29.0	13908	15204	16534	17627	18497	19567	20462	21228	22073	22877
-33.0	12118	13147	14010	14818	15449	15999	16490	16908	17241	17493
-37.5	9820	10748	11606	12265	12736	13085	13391	13649	13838	13973
-42.5	7359	8077	8747	9242	9611	9945	10236	10483	10683	10834
-47.5	5225	5717	6162	6516	6796	7042	7255	7435	7579	7687
-55.0	3175	3382	3577	3740	3858	3963	4050	4119	4174	4214
-65.0	1626	1687	1751	1799	1833	1864	1890	1911	1928	1941
-75.0	796	822	843	858	869	882	895	907	917	931
-85.0	180	186	193	197	201	203	209	209	209	209
-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	209	210	210	210	209	209	209	209	209	203
75.0	929	926	925	926	929	931	917	907	895	882
65.0	1955	1956	1957	1956	1955	1941	1928	1911	1890	1864

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CANDELA TABULATION - (Cont.)

55.0	4252	4240	4234	4240	4252	4214	4174	4119	4050	3963
47.5	7785	7744	7723	7744	7785	7687	7579	7435	7255	7042
42.5	10993	10997	10999	10997	10993	10834	10683	10483	10236	9945
37.5	14057	14167	14192	14167	14057	13973	13838	13649	13391	13085
33.0	17657	17802	17847	17802	17657	17493	17241	16908	16490	15999
29.0	23400	23689	23742	23689	23400	22877	22073	21228	20462	19567
25.5	32974	33480	33591	33480	32974	32100	30737	28822	26651	24929
22.5	45440 *	46239 *	46165 *	46239 *	45440 *	43942 *	41731 *	38851 *	35483 *	32507
19.5	62240 *	63591 *	63411 *	63591 *	62240 *	59387 *	56086 *	51947 *	47293 *	42764 *
17.0	80965 *	83506 *	83248 *	83506 *	80965 *	76477 *	71739 *	65723 *	59036 *	52926 *
15.0	103422 *	106480 *	105475 *	106480 *	103422 *	97584 *	89199 *	78531 *	70529 *	61876 *
13.0	140917 *	147040 *	148605 *	147040 *	140917 *	128992 *	111952 *	97560 *	83936 *	72267 *
11.0	191823 *	202397 *	204967 *	202397 *	191823 *	170982 *	146808 *	122754 *	100184 *	83817 *
9.0	248839 *	260495 *	262781 *	260495 *	248839 *	226121 *	191756 *	152261 *	122606 *	97230 *
7.0	301214 *	309864 *	311188 *	309864 *	301214 *	274230 *	236292 *	190910 *	146219 *	110566 *
5.0	328206 *	340281 *	340256 *	340281 *	328206 *	310469 *	274136 *	224894 *	169954 *	127401 *
3.0	344588 *	350427 *	351508 *	350427 *	344588 *	329197 *	300932 *	248294 *	190451 *	139119 *
1.0	351207 *	354553 *	354367 *	354553 *	351207 *	340517 *	309773 *	260049 *	201191 *	145026 *
0.0	352633 *	354789 *	354397 *	354789 *	352633 *	341662 *	312970 *	262406 *	202523 *	145978 *
-1.0	351207 *	354553 *	354367 *	354553 *	351207 *	340517 *	309773 *	260049 *	201191 *	145026 *
-3.0	344588 *	350427 *	351508 *	350427 *	344588 *	329197 *	300932 *	248294 *	190451 *	139119 *
-5.0	328206 *	340281 *	340256 *	340281 *	328206 *	310469 *	274136 *	224894 *	169954 *	127401 *
-7.0	301214 *	309864 *	311188 *	309864 *	301214 *	274230 *	236292 *	190910 *	146219 *	110566 *
-9.0	248839 *	260495 *	262781 *	260495 *	248839 *	226121 *	191756 *	152261 *	122606 *	97230 *
-11.0	191823 *	202397 *	204967 *	202397 *	191823 *	170982 *	146808 *	122754 *	100184 *	83817 *
-13.0	140917 *	147040 *	148605 *	147040 *	140917 *	128992 *	111952 *	97560 *	83936 *	72267 *
-15.0	103422 *	106480 *	105475 *	106480 *	103422 *	97584 *	89199 *	78531 *	70529 *	61876 *
-17.0	80965 *	83506 *	83248 *	83506 *	80965 *	76477 *	71739 *	65723 *	59036 *	52926 *
-19.5	62240 *	63591 *	63411 *	63591 *	62240 *	59387 *	56086 *	51947 *	47293 *	42764 *
-22.5	45440 *	46239 *	46165 *	46239 *	45440 *	43942 *	41731 *	38851 *	35483 *	32507
-25.5	32974	33480	33591	33480	32974	32100	30737	28822	26651	24929
-29.0	23400	23689	23742	23689	23400	22877	22073	21228	20462	19567
-33.0	17657	17802	17847	17802	17657	17493	17241	16908	16490	15999
-37.5	14057	14167	14192	14167	14057	13973	13838	13649	13391	13085
-42.5	10993	10997	10999	10997	10993	10834	10683	10483	10236	9945
-47.5	7785	7744	7723	7744	7785	7687	7579	7435	7255	7042
-55.0	4252	4240	4234	4240	4252	4214	4174	4119	4050	3963
-65.0	1955	1956	1957	1956	1955	1941	1928	1911	1890	1864
-75.0	929	926	925	926	929	931	917	907	895	882
-85.0	209	210	210	210	209	209	209	209	209	203
-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	201	197	193	186	180	172	163	152	139	125
75.0	869	858	843	822	796	757	707	656	596	526
65.0	1833	1799	1751	1687	1626	1542	1446	1322	1184	1043
55.0	3858	3740	3577	3382	3175	2910	2630	2296	1951	1660
47.5	6796	6516	6162	5717	5225	4713	4102	3493	2860	2307
42.5	9611	9242	8747	8077	7359	6458	5525	4543	3613	2856
37.5	12736	12265	11606	10748	9820	8674	7330	5895	4528	3485
33.0	15449	14818	14010	13147	12118	10736	9122	7316	5508	4078
29.0	18497	17627	16534	15204	13908	12647	10776	8650	6442	4692
25.5	22990	21108	19287	17349	15685	13893	12114	9808	7319	5216

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	29168	25974	22703	19672	17385	15225	13097	10744	8034	5714
19.5	37789 *	33059	27554	22701	19315	16540	13955	11567	8718	6163
17.0	46126 *	40116 *	32942	25913	21067	17598	14739	12179	9218	6517
15.0	53970 *	45967 *	37515 *	28998	22894	18429	15311	12620	9582	6783
13.0	61614 *	52534 *	42338 *	32226	24780	19444	15804	12973	9908	7016
11.0	70207 *	58660 *	46915 *	35167	26450	20336	16289	13275	10192	7217
9.0	78196 *	65532 *	51834 *	38593 *	28539	21096	16742	13524	10431	7385
7.0	88154 *	71498 *	56071 *	41442 *	30400	21908	17112	13721	10623	7518
5.0	96423 *	76238 *	59328 *	43608 *	31821	22674	17380	13866	10767	7620
3.0	102083 *	80135 *	61695 *	45071 *	32788	23186	17561	13969	10945	7739
1.0	105326 *	82338 *	62800 *	45802 *	33207	23505	17732	14041	10978	7746
0.0	105531 *	82445 *	62791 *	45707 *	33216	23570	17783	14048	10995	7749
-1.0	105326 *	82338 *	62800 *	45802 *	33207	23505	17732	14041	10978	7746
-3.0	102083 *	80135 *	61695 *	45071 *	32788	23186	17561	13969	10945	7739
-5.0	96423 *	76238 *	59328 *	43608 *	31821	22674	17380	13866	10767	7620
-7.0	88154 *	71498 *	56071 *	41442 *	30400	21908	17112	13721	10623	7518
-9.0	78196 *	65532 *	51834 *	38593 *	28539	21096	16742	13524	10431	7385
-11.0	70207 *	58660 *	46915 *	35167	26450	20336	16289	13275	10192	7217
-13.0	61614 *	52534 *	42338 *	32226	24780	19444	15804	12973	9908	7016
-15.0	53970 *	45967 *	37515 *	28998	22894	18429	15311	12620	9582	6783
-17.0	46126 *	40116 *	32942	25913	21067	17598	14739	12179	9218	6517
-19.5	37789 *	33059	27554	22701	19315	16540	13955	11567	8718	6163
-22.5	29168	25974	22703	19672	17385	15225	13097	10744	8034	5714
-25.5	22990	21108	19287	17349	15685	13893	12114	9808	7319	5216
-29.0	18497	17627	16534	15204	13908	12647	10776	8650	6442	4692
-33.0	15449	14818	14010	13147	12118	10736	9122	7316	5508	4078
-37.5	12736	12265	11606	10748	9820	8674	7330	5895	4528	3485
-42.5	9611	9242	8747	8077	7359	6458	5525	4543	3613	2856
-47.5	6796	6516	6162	5717	5225	4713	4102	3493	2860	2307
-55.0	3858	3740	3577	3382	3175	2910	2630	2296	1951	1660
-65.0	1833	1799	1751	1687	1626	1542	1446	1322	1184	1043
-75.0	869	858	843	822	796	757	707	656	596	526
-85.0	201	197	193	186	180	172	163	152	139	125
-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	101	71	47	16	0
75.0	417	274	151	47	0
65.0	830	535	279	76	0
55.0	1275	835	418	107	0
47.5	1660	1039	520	131	0
42.5	1948	1170	591	146	0
37.5	2283	1299	655	159	0
33.0	2615	1416	707	170	0
29.0	2903	1516	755	178	0
25.5	3163	1602	793	185	0
22.5	3364	1664	821	190	0
19.5	3550	1728	847	194	0
17.0	3706	1774	864	197	0
15.0	3815	1807	876	199	0
13.0	3910	1836	887	201	0
11.0	3990	1860	895	207	0
9.0	4056	1881	902	207	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	4108	1897	908	206	0
5.0	4148	1909	916	206	0
3.0	4190	1922	915	206	0
1.0	4187	1922	914	206	0
0.0	4185	1922	914	206	0
-1.0	4187	1922	914	206	0
-3.0	4190	1922	915	206	0
-5.0	4148	1909	916	206	0
-7.0	4108	1897	908	206	0
-9.0	4056	1881	902	207	0
-11.0	3990	1860	895	207	0
-13.0	3910	1836	887	201	0
-15.0	3815	1807	876	199	0
-17.0	3706	1774	864	197	0
-19.5	3550	1728	847	194	0
-22.5	3364	1664	821	190	0
-25.5	3163	1602	793	185	0
-29.0	2903	1516	755	178	0
-33.0	2615	1416	707	170	0
-37.5	2283	1299	655	159	0
-42.5	1948	1170	591	146	0
-47.5	1660	1039	520	131	0
-55.0	1275	835	418	107	0
-65.0	830	535	279	76	0
-75.0	417	274	151	47	0
-85.0	101	71	47	16	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 51228.1

Total Field Lumens (one side of beam only) = 35454.88

* 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	0.16	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.30	0.29
75	1.73	3.46	3.46	3.43	3.38	3.33	3.26	3.18	3.11	3.78
65	4.39	8.78	8.75	8.66	8.54	8.40	8.24	8.05	7.85	9.49
55	9.43	18.88	18.78	18.57	18.30	17.95	17.53	17.02	16.44	19.65
47.5	13.67	27.42	27.28	26.87	26.36	25.71	24.93	24.01	22.96	27.11
42.5	14.26	28.55	28.33	27.86	27.28	26.55	25.68	24.67	23.54	27.72
37.5	19.17	38.21	37.87	37.36	36.69	35.82	34.75	33.53	32.10	37.84
33	21.93	43.62	43.20	42.63	41.83	40.79	39.53	38.08	36.41	42.87
29	25.31	50.26	49.48	48.28	46.72	45.05	43.21	41.09	38.88	45.55
25.5	30.52	60.49	59.21	57.14	54.30	51.01	47.77	44.47	41.11	47.18
22.5	36.43 *	72.21 *	70.40 *	67.48 *	63.41	58.41	53.44	48.59	43.59	48.31
19.5	50.12 *	99.32 *	96.18 *	91.40 *	85.34 *	78.10 *	70.63 *	63.05 *	55.34	59.28
17	55.92 *	110.47 *	106.00 *	99.85 *	92.56 *	83.99 *	75.24 *	66.35 *	57.50 *	60.42
15	57.68 *	113.97 *	108.92 *	101.48 *	92.06 *	82.14 *	72.81 *	63.51 *	54.51 *	56.60 *
13	77.31 *	151.56 *	143.09 *	129.57 *	113.79 *	99.16 *	85.99 *	73.81 *	62.68 *	64.49 *
11	107.07 *	207.67 *	192.26 *	169.26 *	144.51 *	121.32 *	101.36 *	85.09 *	71.16 *	72.48 *
9	141.74 *	275.06 *	254.56 *	222.86 *	185.08 *	149.33 *	120.32 *	97.37 *	79.82 *	80.61 *
7	174.28 *	341.07 *	319.18 *	281.24 *	232.63 *	183.58 *	142.01 *	110.58 *	88.83 *	88.57 *
5	198.23 *	389.52 *	368.92 *	331.75 *	279.39 *	219.57 *	165.10 *	124.88 *	97.30 *	95.15 *
3	210.55 *	415.07 *	398.80 *	367.98 *	316.19 *	250.06 *	186.79 *	137.44 *	103.91 *	100.30 *
1	214.87 *	426.42 *	414.92 *	387.88 *	337.55 *	269.97 *	201.35 *	145.28 *	108.30 *	103.76 *
0	107.99 *	215.10 *	210.58 *	197.65 *	172.72 *	138.91 *	103.49 *	74.16 *	54.99 *	52.50 *
-1	107.99 *	215.10 *	210.58 *	197.65 *	172.72 *	138.91 *	103.49 *	74.16 *	54.99 *	52.50 *
	214.87 *	426.42 *	414.92 *	387.88 *	337.55 *	269.97 *	201.35 *	145.28 *	108.30 *	103.76 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	210.55 *	415.07 *	398.80 *	367.98 *	316.19 *	250.06 *	186.79 *	137.44 *	103.91 *	100.30 *
-5	198.23 *	389.52 *	368.92 *	331.75 *	279.39 *	219.57 *	165.10 *	124.88 *	97.30 *	95.15 *
-7	174.28 *	341.07 *	319.18 *	281.24 *	232.63 *	183.58 *	142.01 *	110.58 *	88.83 *	88.57 *
-9	141.74 *	275.06 *	254.56 *	222.86 *	185.08 *	149.33 *	120.32 *	97.37 *	79.82 *	80.61 *
-11	107.07 *	207.67 *	192.26 *	169.26 *	144.51 *	121.32 *	101.36 *	85.09 *	71.16 *	72.48 *
-13	77.31 *	151.56 *	143.09 *	129.57 *	113.79 *	99.16 *	85.99 *	73.81 *	62.68 *	64.49 *
-15	57.68 *	113.97 *	108.92 *	101.48 *	92.06 *	82.14 *	72.81 *	63.51 *	54.51 *	56.60 *
-17	55.92 *	110.47 *	106.00 *	99.85 *	92.56 *	83.99 *	75.24 *	66.35 *	57.50 *	60.42
-19.5	50.12 *	99.32 *	96.18 *	91.40 *	85.34 *	78.10 *	70.63 *	63.05 *	55.34	59.28
-22.5	36.43 *	72.21 *	70.40 *	67.48 *	63.41	58.41	53.44	48.59	43.59	48.31
-25.5	30.52	60.49	59.21	57.14	54.30	51.01	47.77	44.47	41.11	47.18
-29	25.31	50.26	49.48	48.28	46.72	45.05	43.21	41.09	38.88	45.55
-33	21.93	43.62	43.20	42.63	41.83	40.79	39.53	38.08	36.41	42.87
-37.5	19.17	38.21	37.87	37.36	36.69	35.82	34.75	33.53	32.10	37.84
-42.5	14.26	28.55	28.33	27.86	27.28	26.55	25.68	24.67	23.54	27.72
-47.5	13.67	27.42	27.28	26.87	26.36	25.71	24.93	24.01	22.96	27.11
-55	9.43	18.88	18.78	18.57	18.30	17.95	17.53	17.02	16.44	19.65
-65	4.39	8.78	8.75	8.66	8.54	8.40	8.24	8.05	7.85	9.49
-75	1.73	3.46	3.46	3.43	3.38	3.33	3.26	3.18	3.11	3.78
-85	0.16	0.32	0.32	0.32	0.32	0.31	0.31	0.30	0.29	0.35
-90										
Total	3145.57	6194.82	5920.97	5439.05	4757.88	3978.96	3247.48	2649.07	2201.23	2288.05

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.40	0.38	0.42	0.44	0.44	0.42	0.36	0.40	0.33	0.15
85	4.36	4.14	4.51	4.70	4.69	4.50	3.73	4.18	3.28	1.41
75	10.88	10.29	11.19	11.62	11.56	10.96	9.01	10.06	7.82	3.22
65	22.17	20.60	21.92	22.26	21.53	19.69	15.71	17.18	13.22	5.38
55	30.13	27.39	28.47	28.11	26.27	23.18	17.72	18.49	13.72	5.49

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LUMENS TABULATION - (Cont.)

47.5										
	30.61	27.52	28.14	27.15	24.71	21.15	15.66	15.67	11.06	4.32
42.5										
	41.78	37.57	38.28	36.53	32.59	27.09	19.49	18.88	12.74	4.83
37.5										
	47.52	43.04	44.08	42.13	37.35	30.50	21.32	20.03	13.03	4.77
33										
	50.24	45.39	46.82	45.19	40.14	32.56	22.31	20.42	12.85	4.57
29										
	51.04	45.39	46.55	45.16	40.49	32.88	22.30	19.97	12.22	4.25
25.5										
	50.55	43.88	44.20	42.55	38.41	31.41	21.22	18.71	11.17	3.81
22.5										
	59.26	49.50	48.66	46.06	41.43	34.17	23.12	20.14	11.76	3.95
19.5										
	58.17	46.43	44.14	41.01	36.68	30.39	20.60	17.81	10.23	3.39
17										
	53.47	41.27	37.90	34.50	30.69	25.43	17.28	14.88	8.44	2.77
15										
	60.17	45.45	40.54	36.02	31.73	26.29	17.92	15.38	8.65	2.81
13										
	66.81 *	49.51	43.12	37.53	32.65	27.03	18.48	15.81	8.82	2.85
11										
	73.58 *	53.74	45.69	38.88	33.48	27.66	18.96	16.18	8.96	2.88
9										
	80.16 *	58.00	48.31	40.13	34.19	28.17	19.36	16.48	9.08	2.91
7										
	85.50 *	61.47 *	50.61	41.29	34.74	28.56	19.66	16.71	9.17	2.93
5										
	89.44 *	63.98 *	52.35	42.19	35.13	28.90	19.96	16.93	9.26	2.95
3										
	91.86 *	65.47 *	53.40	42.80	35.42	29.12	20.14	17.05	9.30	2.95
1										
	46.30 *	32.96 *	26.89	21.56	17.80	14.60	10.08	8.53	4.65	1.48
0										
	46.30 *	32.96 *	26.89	21.56	17.80	14.60	10.08	8.53	4.65	1.48
-1										
	91.86 *	65.47 *	53.40	42.80	35.42	29.12	20.14	17.05	9.30	2.95
-3										
	89.44 *	63.98 *	52.35	42.19	35.13	28.90	19.96	16.93	9.26	2.95
-5										
	85.50 *	61.47 *	50.61	41.29	34.74	28.56	19.66	16.71	9.17	2.93
-7										
	80.16 *	58.00	48.31	40.13	34.19	28.17	19.36	16.48	9.08	2.91
-9										
	73.58 *	53.74	45.69	38.88	33.48	27.66	18.96	16.18	8.96	2.88
-11										
	66.81 *	49.51	43.12	37.53	32.65	27.03	18.48	15.81	8.82	2.85
-13										
	60.17	45.45	40.54	36.02	31.73	26.29	17.92	15.38	8.65	2.81
-15										
	53.47	41.27	37.90	34.50	30.69	25.43	17.28	14.88	8.44	2.77
-17										
	58.17	46.43	44.14	41.01	36.68	30.39	20.60	17.81	10.23	3.39
-19.5										
	59.26	49.50	48.66	46.06	41.43	34.17	23.12	20.14	11.76	3.95

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	50.55	43.88	44.20	42.55	38.41	31.41	21.22	18.71	11.17	3.81
-25.5	51.04	45.39	46.55	45.16	40.49	32.88	22.30	19.97	12.22	4.25
-29	50.24	45.39	46.82	45.19	40.14	32.56	22.31	20.42	12.85	4.57
-33	47.52	43.04	44.08	42.13	37.35	30.50	21.32	20.03	13.03	4.77
-37.5	41.78	37.57	38.28	36.53	32.59	27.09	19.49	18.88	12.74	4.83
-42.5	30.61	27.52	28.14	27.15	24.71	21.15	15.66	15.67	11.06	4.32
-47.5	30.13	27.39	28.47	28.11	26.27	23.18	17.72	18.49	13.72	5.49
-55	22.17	20.60	21.92	22.26	21.53	19.69	15.71	17.18	13.22	5.38
-65	10.88	10.29	11.19	11.62	11.56	10.96	9.01	10.06	7.82	3.22
-75	4.36	4.14	4.51	4.70	4.69	4.50	3.73	4.18	3.28	1.41
-85	0.40	0.38	0.42	0.44	0.44	0.42	0.36	0.40	0.33	0.15
-90										
Total	2208.83	1746.76	1612.35	1455.59	1284.22	1069.32	748.78	679.78	419.50	148.13

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.04	0.00		6.78
85				
	0.34	0.01		71.99
75				
	0.73	0.02		178.51
65				
	1.16	0.03		353.40
55				
	1.16	0.03		466.49
47.5				
	0.92	0.02		461.40
42.5				
	1.02	0.03		614.17
37.5				
	1.01	0.02		695.70
33				
	0.96	0.02		755.31
29				
	0.88	0.02		814.34
25.5				
	0.79	0.02		868.98
22.5				
	0.81	0.02		1087.66
19.5				
	0.69	0.02		1117.85
17				
	0.56	0.01		1070.88

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

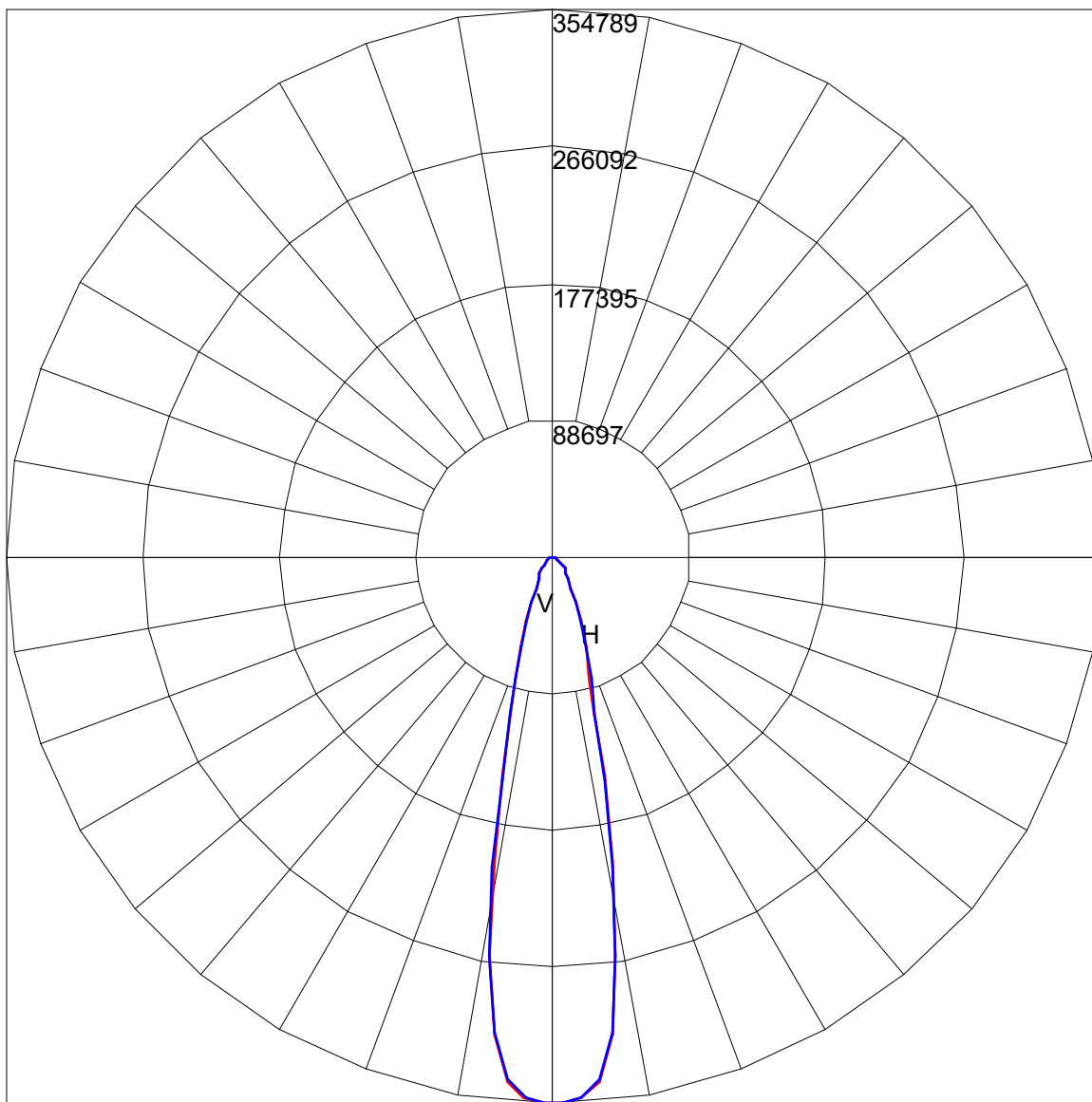
15			
	0.57	0.01	1287.00
13			
	0.58	0.01	1575.37
11			
	0.58	0.01	1927.35
9			
	0.59	0.01	2299.35
7			
	0.59	0.01	2621.07
5			
	0.59	0.01	2848.78
3			
	0.59	0.01	2978.43
1			
	0.30	0.01	1513.24
0			
	0.30	0.01	1513.24
-1			
	0.59	0.01	2978.43
-3			
	0.59	0.01	2848.78
-5			
	0.59	0.01	2621.07
-7			
	0.59	0.01	2299.35
-9			
	0.58	0.01	1927.35
-11			
	0.58	0.01	1575.37
-13			
	0.57	0.01	1287.00
-15			
	0.56	0.01	1070.88
-17			
	0.69	0.02	1117.85
-19.5			
	0.81	0.02	1087.66
-22.5			
	0.79	0.02	868.98
-25.5			
	0.88	0.02	814.34
-29			
	0.96	0.02	755.31
-33			
	1.01	0.02	695.70
-37.5			
	1.02	0.03	614.17
-42.5			
	0.92	0.02	461.40
-47.5			
	1.16	0.03	466.49
-55			
	1.16	0.03	353.40
-65			
	0.73	0.02	178.51

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

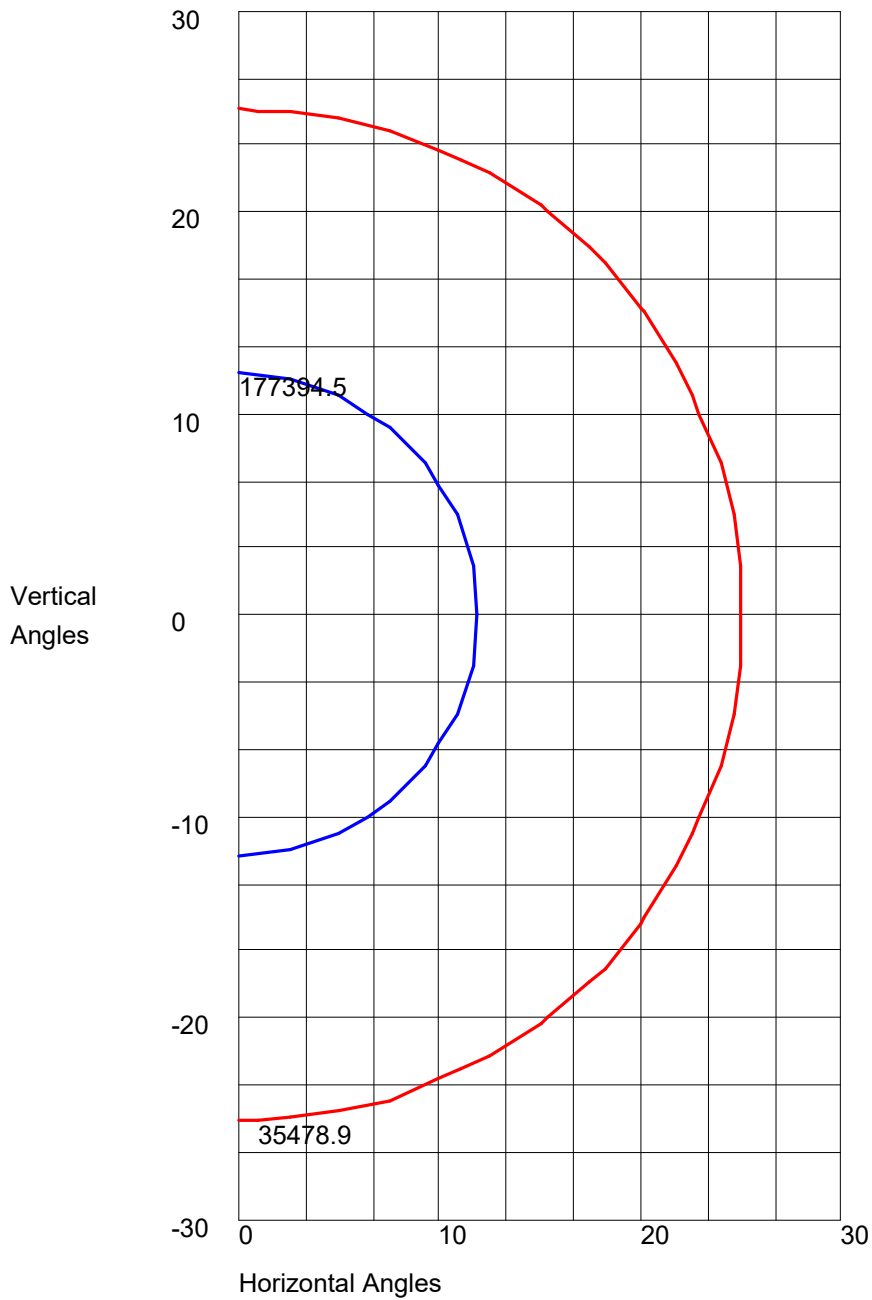
-75	0.34	0.01	71.99
-85	0.04	0.00	6.78
-90			
Total	30.96	0.76	51228.07

AXIAL CANDELA DISPLAY



Maximum Candela = 354789 Located At Horizontal Angle = -1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 354789 Located At Horizontal Angle = -1, Vertical Angle = 0
50% Maximum Candela = 177394.5
10% Maximum Candela = 35478.9