



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-MWF-50.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-50
[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] 5000

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	135616
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	40217
Beam Efficiency	N.A.
Field Lumens	72255
Field Efficiency	N.A.
Spill Lumens	10019
Luminaire Lumens	82274
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	71	85	72
75	395	75	392
65	1011	65	1012
55	2283	55	2275
47.5	4080	47.5	4196
42.5	9096	42.5	9217
37.5	15963	37.5	15902
33	23871	33	23780
29	32635	29	32608
25.5	42193	25.5	42554
22.5	54094	22.5	54242
19.5	72276	19.5	72331
17	89418	17	89778
15	101852	15	102152
13	111776	13	111959
11	119601	11	119845
9	125901	9	126200
7	130890	7	131134
5	134423	5	134484
3	135409	3	135499
1	135516	1	135556
0	135424	0	135424
-1	135516	-1	135556
-3	135409	-3	135499
-5	134423	-5	134484
-7	130890	-7	131134
-9	125901	-9	126200
-11	119601	-11	119845
-13	111776	-13	111959
-15	101852	-15	102152
-17	89418	-17	89778
-19.5	72276	-19.5	72331
-22.5	54094	-22.5	54242
-25.5	42193	-25.5	42554
-29	32635	-29	32608
-33	23871	-33	23780
-37.5	15963	-37.5	15902
-42.5	9096	-42.5	9217
-47.5	4080	-47.5	4196
-55	2283	-55	2275
-65	1011	-65	1012
-75	395	-75	392
-85	71	-85	72
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 135616

Beam Edge = 67808 Cd (50% of Max.)

Field Edge = 13561.6 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	4	13	21	32	41	47	53	57	60
75.0	0	13	51	105	166	211	242	272	296	316
65.0	0	21	107	221	354	462	543	631	711	774
55.0	0	32	168	354	607	857	1038	1236	1438	1616
47.5	0	41	213	462	849	1240	1573	1801	2175	2515
42.5	0	47	245	543	1019	1573	1875	2435	2895	3226
37.5	0	53	275	629	1225	1784	2424	3009	3928	5563
33.0	0	57	299	706	1418	2147	2879	3915	6220	8897
29.0	0	60	319	770	1572	2493	3193	5507	8845	12418
25.5	0	63	334	825	1667	2762	3860	7219	11371	15374 *
22.5	0	65	346	863	1744	2892	4567	8748	13522	18148 *
19.5	0	66	356	902	1841	3004	5518	10343	15575 *	20953 *
17.0	0	67	364	929	1941	3158	6224	11602	17314 *	23272 *
15.0	0	68	370	949	2011	3364	6829	12509	18617 *	25005 *
13.0	0	69	376	966	2073	3543	7408	13384	19784 *	26781 *
11.0	0	71	380	980	2127	3696	7912	14131 *	20894 *	28312 *
9.0	0	71	385	992	2171	3820	8336	14732 *	21846 *	29587 *
7.0	0	71	388	1000	2207	3917	8679	15207 *	22610 *	30709 *
5.0	0	71	393	1007	2239	3990	8939	15554 *	23203 *	31626 *
3.0	0	71	394	1013	2272	4077	9171	15794 *	23611 *	32245 *
1.0	0	71	395	1012	2279	4079	9121	15955 *	23835 *	32580 *
0.0	0	71	395	1011	2283	4080	9096	15963 *	23871 *	32635 *
-1.0	0	71	395	1012	2279	4079	9121	15955 *	23835 *	32580 *
-3.0	0	71	394	1013	2272	4077	9171	15794 *	23611 *	32245 *
-5.0	0	71	393	1007	2239	3990	8939	15554 *	23203 *	31626 *
-7.0	0	71	388	1000	2207	3917	8679	15207 *	22610 *	30709 *
-9.0	0	71	385	992	2171	3820	8336	14732 *	21846 *	29587 *
-11.0	0	71	380	980	2127	3696	7912	14131 *	20894 *	28312 *
-13.0	0	69	376	966	2073	3543	7408	13384	19784 *	26781 *
-15.0	0	68	370	949	2011	3364	6829	12509	18617 *	25005 *
-17.0	0	67	364	929	1941	3158	6224	11602	17314 *	23272 *
-19.5	0	66	356	902	1841	3004	5518	10343	15575 *	20953 *
-22.5	0	65	346	863	1744	2892	4567	8748	13522	18148 *
-25.5	0	63	334	825	1667	2762	3860	7219	11371	15374 *
-29.0	0	60	319	770	1572	2493	3193	5507	8845	12418
-33.0	0	57	299	706	1418	2147	2879	3915	6220	8897
-37.5	0	53	275	629	1225	1784	2424	3009	3928	5563
-42.5	0	47	245	543	1019	1573	1875	2435	2895	3226
-47.5	0	41	213	462	849	1240	1573	1801	2175	2515
-55.0	0	32	168	354	607	857	1038	1236	1438	1616
-65.0	0	21	107	221	354	462	543	631	711	774
-75.0	0	13	51	105	166	211	242	272	296	316
-85.0	0	4	13	21	32	41	47	53	57	60
-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	63	65	68	69	71	71	74	73	73	73
75.0	333	346	358	366	371	376	379	382	384	388
65.0	826	861	900	929	950	968	981	992	999	1004
55.0	1692	1751	1829	1929	2001	2067	2125	2172	2210	2238
47.5	2797	2944	3075	3231	3435	3615	3770	3901	4003	4076
42.5	3917	4642	5589	6285	6895	7475	7984	8393	8708	8940
37.5	7286	8798	10346	11546	12422	13309	14075 *	14718 *	15235 *	15628 *
33.0	11395	13508	15532 *	17250 *	18472 *	19608 *	20795 *	21845 *	22635 *	23207 *
29.0	15401 *	18244 *	21039 *	23285 *	24958 *	26651 *	28207 *	29540 *	30695 *	31604 *
25.5	19303 *	22916 *	26496 *	29433 *	31756 *	33934 *	35868 *	37923 *	39672 *	40961 *
22.5	22790 *	27174 *	31626 *	35279 *	38341 *	41351 *	44140 *	47351 *	49954 *	51893 *
19.5	26354 *	31589 *	36995 *	41940 *	46232 *	50918 *	55477 *	60598 *	64863 *	68209 *
17.0	29432 *	35348 *	41988 *	48473 *	53993 *	61180 *	67823 *	74529 *	80349 *	84717 *
15.0	31852 *	38465 *	46277 *	53947 *	62112 *	70264 *	78899 *	86468 *	92405 *	96737 *
13.0	34089 *	41544 *	50833 *	61228 *	70429 *	80512 *	89507 *	97120 *	103229 *	107142 *
11.0	36010 *	44397 *	55359 *	67935 *	79194 *	89641 *	98787 *	106144 *	111831 *	115714 *
9.0	37958 *	47332 *	60463 *	74621 *	86799 *	97233 *	106145 *	113638 *	118539 *	122279 *
7.0	39572 *	49683 *	64438 *	80222 *	92608 *	103433 *	111950 *	118527 *	123828 *	127325 *
5.0	40845 *	51611 *	67508 *	84268 *	96705 *	107354 *	116045 *	122390 *	127242 *	131116 *
3.0	41701 *	53027 *	70231 *	87282 *	99685 *	110030 *	118218 *	124673 *	129857 *	133032 *
1.0	42136 *	53970 *	71875 *	88962 *	101558 *	111530 *	119553 *	125907 *	130908 *	134519 *
0.0	42193 *	54094 *	72276 *	89418 *	101852 *	111776 *	119601 *	125901 *	130890 *	134423 *
-1.0	42136 *	53970 *	71875 *	88962 *	101558 *	111530 *	119553 *	125907 *	130908 *	134519 *
-3.0	41701 *	53027 *	70231 *	87282 *	99685 *	110030 *	118218 *	124673 *	129857 *	133032 *
-5.0	40845 *	51611 *	67508 *	84268 *	96705 *	107354 *	116045 *	122390 *	127242 *	131116 *
-7.0	39572 *	49683 *	64438 *	80222 *	92608 *	103433 *	111950 *	118527 *	123828 *	127325 *
-9.0	37958 *	47332 *	60463 *	74621 *	86799 *	97233 *	106145 *	113638 *	118539 *	122279 *
-11.0	36010 *	44397 *	55359 *	67935 *	79194 *	89641 *	98787 *	106144 *	111831 *	115714 *
-13.0	34089 *	41544 *	50833 *	61228 *	70429 *	80512 *	89507 *	97120 *	103229 *	107142 *
-15.0	31852 *	38465 *	46277 *	53947 *	62112 *	70264 *	78899 *	86468 *	92405 *	96737 *
-17.0	29432 *	35348 *	41988 *	48473 *	53993 *	61180 *	67823 *	74529 *	80349 *	84717 *
-19.5	26354 *	31589 *	36995 *	41940 *	46232 *	50918 *	55477 *	60598 *	64863 *	68209 *
-22.5	22790 *	27174 *	31626 *	35279 *	38341 *	41351 *	44140 *	47351 *	49954 *	51893 *
-25.5	19303 *	22916 *	26496 *	29433 *	31756 *	33934 *	35868 *	37923 *	39672 *	40961 *
-29.0	15401 *	18244 *	21039 *	23285 *	24958 *	26651 *	28207 *	29540 *	30695 *	31604 *
-33.0	11395	13508	15532 *	17250 *	18472 *	19608 *	20795 *	21845 *	22635 *	23207 *
-37.5	7286	8798	10346	11546	12422	13309	14075 *	14718 *	15235 *	15628 *
-42.5	3917	4642	5589	6285	6895	7475	7984	8393	8708	8940
-47.5	2797	2944	3075	3231	3435	3615	3770	3901	4003	4076
-55.0	1692	1751	1829	1929	2001	2067	2125	2172	2210	2238
-65.0	826	861	900	929	950	968	981	992	999	1004
-75.0	333	346	358	366	371	376	379	382	384	388
-85.0	63	65	68	69	71	71	74	73	73	73
-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	73	72	72	72	73	73	73	73	74	71
75.0	390	391	392	391	390	388	384	382	379	376
65.0	1011	1012	1012	1012	1011	1004	999	992	981	968

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CANDELA TABULATION - (Cont.)

55.0	2268	2273	2275	2273	2268	2238	2210	2172	2125	2067
47.5	4163	4185	4196	4185	4163	4076	4003	3901	3770	3615
42.5	9190	9208	9217	9208	9190	8940	8708	8393	7984	7475
37.5	15892 *	15946 *	15902 *	15946 *	15892 *	15628 *	15235 *	14718 *	14075 *	13309
33.0	23592 *	23767 *	23780 *	23767 *	23592 *	23207 *	22635 *	21845 *	20795 *	19608 *
29.0	32211 *	32546 *	32608 *	32546 *	32211 *	31604 *	30695 *	29540 *	28207 *	26651 *
25.5	41809 *	42378 *	42554 *	42378 *	41809 *	40961 *	39672 *	37923 *	35868 *	33934 *
22.5	53166 *	54057 *	54242 *	54057 *	53166 *	51893 *	49954 *	47351 *	44140 *	41351 *
19.5	70475 *	71853 *	72331 *	71853 *	70475 *	68209 *	64863 *	60598 *	55477 *	50918 *
17.0	87475 *	89066 *	89778 *	89066 *	87475 *	84717 *	80349 *	74529 *	67823 *	61180 *
15.0	99791 *	101812 *	102152 *	101812 *	99791 *	96737 *	92405 *	86468 *	78899 *	70264 *
13.0	109934 *	111413 *	111959 *	111413 *	109934 *	107142 *	103229 *	97120 *	89507 *	80512 *
11.0	118226 *	119419 *	119845 *	119419 *	118226 *	115714 *	111831 *	106144 *	98787 *	89641 *
9.0	124707 *	125937 *	126200 *	125937 *	124707 *	122279 *	118539 *	113638 *	106145 *	97233 *
7.0	129685 *	130947 *	131134 *	130947 *	129685 *	127325 *	123828 *	118527 *	111950 *	103433 *
5.0	132963 *	134320 *	134484 *	134320 *	132963 *	131116 *	127242 *	122390 *	116045 *	107354 *
3.0	134944 *	135251 *	135499 *	135251 *	134944 *	133032 *	129857 *	124673 *	118218 *	110030 *
1.0	135382 *	135616 *	135556 *	135616 *	135382 *	134519 *	130908 *	125907 *	119553 *	111530 *
0.0	135409 *	135516 *	135424 *	135516 *	135409 *	134423 *	130890 *	125901 *	119601 *	111776 *
-1.0	135382 *	135616 *	135556 *	135616 *	135382 *	134519 *	130908 *	125907 *	119553 *	111530 *
-3.0	134944 *	135251 *	135499 *	135251 *	134944 *	133032 *	129857 *	124673 *	118218 *	110030 *
-5.0	132963 *	134320 *	134484 *	134320 *	132963 *	131116 *	127242 *	122390 *	116045 *	107354 *
-7.0	129685 *	130947 *	131134 *	130947 *	129685 *	127325 *	123828 *	118527 *	111950 *	103433 *
-9.0	124707 *	125937 *	126200 *	125937 *	124707 *	122279 *	118539 *	113638 *	106145 *	97233 *
-11.0	118226 *	119419 *	119845 *	119419 *	118226 *	115714 *	111831 *	106144 *	98787 *	89641 *
-13.0	109934 *	111413 *	111959 *	111413 *	109934 *	107142 *	103229 *	97120 *	89507 *	80512 *
-15.0	99791 *	101812 *	102152 *	101812 *	99791 *	96737 *	92405 *	86468 *	78899 *	70264 *
-17.0	87475 *	89066 *	89778 *	89066 *	87475 *	84717 *	80349 *	74529 *	67823 *	61180 *
-19.5	70475 *	71853 *	72331 *	71853 *	70475 *	68209 *	64863 *	60598 *	55477 *	50918 *
-22.5	53166 *	54057 *	54242 *	54057 *	53166 *	51893 *	49954 *	47351 *	44140 *	41351 *
-25.5	41809 *	42378 *	42554 *	42378 *	41809 *	40961 *	39672 *	37923 *	35868 *	33934 *
-29.0	32211 *	32546 *	32608 *	32546 *	32211 *	31604 *	30695 *	29540 *	28207 *	26651 *
-33.0	23592 *	23767 *	23780 *	23767 *	23592 *	23207 *	22635 *	21845 *	20795 *	19608 *
-37.5	15892 *	15946 *	15902 *	15946 *	15892 *	15628 *	15235 *	14718 *	14075 *	13309
-42.5	9190	9208	9217	9208	9190	8940	8708	8393	7984	7475
-47.5	4163	4185	4196	4185	4163	4076	4003	3901	3770	3615
-55.0	2268	2273	2275	2273	2268	2238	2210	2172	2125	2067
-65.0	1011	1012	1012	1012	1011	1004	999	992	981	968
-75.0	390	391	392	391	390	388	384	382	379	376
-85.0	73	72	72	72	73	73	73	73	74	71
-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	71	69	68	65	63	60	57	53	47	41
75.0	371	366	358	346	333	316	296	272	242	211
65.0	950	929	900	861	826	774	711	631	543	462
55.0	2001	1929	1829	1751	1692	1616	1438	1236	1038	857
47.5	3435	3231	3075	2944	2797	2515	2175	1801	1573	1240
42.5	6895	6285	5589	4642	3917	3226	2895	2435	1875	1573
37.5	12422	11546	10346	8798	7286	5563	3928	3009	2424	1784
33.0	18472 *	17250 *	15532 *	13508	11395	8897	6220	3915	2879	2147
29.0	24958 *	23285 *	21039 *	18244 *	15401 *	12418	8845	5507	3193	2493
25.5	31756 *	29433 *	26496 *	22916 *	19303 *	15374 *	11371	7219	3860	2762

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	38341 *	35279 *	31626 *	27174 *	22790 *	18148 *	13522	8748	4567	2892
19.5	46232 *	41940 *	36995 *	31589 *	26354 *	20953 *	15575 *	10343	5518	3004
17.0	53993 *	48473 *	41988 *	35348 *	29432 *	23272 *	17314 *	11602	6224	3158
15.0	62112 *	53947 *	46277 *	38465 *	31852 *	25005 *	18617 *	12509	6829	3364
13.0	70429 *	61228 *	50833 *	41544 *	34089 *	26781 *	19784 *	13384	7408	3543
11.0	79194 *	67935 *	55359 *	44397 *	36010 *	28312 *	20894 *	14131 *	7912	3696
9.0	86799 *	74621 *	60463 *	47332 *	37958 *	29587 *	21846 *	14732 *	8336	3820
7.0	92608 *	80222 *	64438 *	49683 *	39572 *	30709 *	22610 *	15207 *	8679	3917
5.0	96705 *	84268 *	67508 *	51611 *	40845 *	31626 *	23203 *	15554 *	8939	3990
3.0	99685 *	87282 *	70231 *	53027 *	41701 *	32245 *	23611 *	15794 *	9171	4077
1.0	101558 *	88962 *	71875 *	53970 *	42136 *	32580 *	23835 *	15955 *	9121	4079
0.0	101852 *	89418 *	72276 *	54094 *	42193 *	32635 *	23871 *	15963 *	9096	4080
-1.0	101558 *	88962 *	71875 *	53970 *	42136 *	32580 *	23835 *	15955 *	9121	4079
-3.0	99685 *	87282 *	70231 *	53027 *	41701 *	32245 *	23611 *	15794 *	9171	4077
-5.0	96705 *	84268 *	67508 *	51611 *	40845 *	31626 *	23203 *	15554 *	8939	3990
-7.0	92608 *	80222 *	64438 *	49683 *	39572 *	30709 *	22610 *	15207 *	8679	3917
-9.0	86799 *	74621 *	60463 *	47332 *	37958 *	29587 *	21846 *	14732 *	8336	3820
-11.0	79194 *	67935 *	55359 *	44397 *	36010 *	28312 *	20894 *	14131 *	7912	3696
-13.0	70429 *	61228 *	50833 *	41544 *	34089 *	26781 *	19784 *	13384	7408	3543
-15.0	62112 *	53947 *	46277 *	38465 *	31852 *	25005 *	18617 *	12509	6829	3364
-17.0	53993 *	48473 *	41988 *	35348 *	29432 *	23272 *	17314 *	11602	6224	3158
-19.5	46232 *	41940 *	36995 *	31589 *	26354 *	20953 *	15575 *	10343	5518	3004
-22.5	38341 *	35279 *	31626 *	27174 *	22790 *	18148 *	13522	8748	4567	2892
-25.5	31756 *	29433 *	26496 *	22916 *	19303 *	15374 *	11371	7219	3860	2762
-29.0	24958 *	23285 *	21039 *	18244 *	15401 *	12418	8845	5507	3193	2493
-33.0	18472 *	17250 *	15532 *	13508	11395	8897	6220	3915	2879	2147
-37.5	12422	11546	10346	8798	7286	5563	3928	3009	2424	1784
-42.5	6895	6285	5589	4642	3917	3226	2895	2435	1875	1573
-47.5	3435	3231	3075	2944	2797	2515	2175	1801	1573	1240
-55.0	2001	1929	1829	1751	1692	1616	1438	1236	1038	857
-65.0	950	929	900	861	826	774	711	631	543	462
-75.0	371	366	358	346	333	316	296	272	242	211
-85.0	71	69	68	65	63	60	57	53	47	41
-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	32	21	13	4	0
75.0	166	105	51	13	0
65.0	354	221	107	21	0
55.0	607	354	168	32	0
47.5	849	462	213	41	0
42.5	1019	543	245	47	0
37.5	1225	629	275	53	0
33.0	1418	706	299	57	0
29.0	1572	770	319	60	0
25.5	1667	825	334	63	0
22.5	1744	863	346	65	0
19.5	1841	902	356	66	0
17.0	1941	929	364	67	0
15.0	2011	949	370	68	0
13.0	2073	966	376	69	0
11.0	2127	980	380	71	0
9.0	2171	992	385	71	0

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CANDELA TABULATION - (Cont.)

7.0	2207	1000	388	71	0
5.0	2239	1007	393	71	0
3.0	2272	1013	394	71	0
1.0	2279	1012	395	71	0
0.0	2283	1011	395	71	0
-1.0	2279	1012	395	71	0
-3.0	2272	1013	394	71	0
-5.0	2239	1007	393	71	0
-7.0	2207	1000	388	71	0
-9.0	2171	992	385	71	0
-11.0	2127	980	380	71	0
-13.0	2073	966	376	69	0
-15.0	2011	949	370	68	0
-17.0	1941	929	364	67	0
-19.5	1841	902	356	66	0
-22.5	1744	863	346	65	0
-25.5	1667	825	334	63	0
-29.0	1572	770	319	60	0
-33.0	1418	706	299	57	0
-37.5	1225	629	275	53	0
-42.5	1019	543	245	47	0
-47.5	849	462	213	41	0
-55.0	607	354	168	32	0
-65.0	354	221	107	21	0
-75.0	166	105	51	13	0
-85.0	32	21	13	4	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) = 41136.95

Total Field Lumens (one side of beam only) = 36127.45

* 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	0.71	1.41	1.40	1.39	1.38	1.36	1.34	1.31	1.28	1.56
65	2.14	4.27	4.24	4.20	4.16	4.10	4.03	3.94	3.83	4.62
55	5.00	9.99	9.91	9.77	9.61	9.40	9.15	8.85	8.50	10.10
47.5	7.38	14.71	14.52	14.23	13.90	13.46	12.93	12.32	11.63	13.65
42.5	10.21	20.35	20.03	19.48	18.86	18.03	17.02	15.83	14.53	16.43
37.5	19.14	38.23	37.72	36.74	35.48	33.87	31.91	29.63	27.19	30.52
33	27.21 *	54.24 *	53.55 *	52.28 *	50.52 *	48.21 *	45.44 *	42.43 *	39.32 *	44.48 *
29	34.33 *	68.26 *	67.22 *	65.52 *	63.17 *	60.23 *	56.77 *	53.02 *	49.17 *	55.76 *
25.5	40.00 *	79.35 *	77.95 *	75.77 *	72.76 *	69.05 *	65.00 *	60.67 *	56.07 *	63.44 *
22.5	44.14 *	87.40 *	85.61 *	82.92 *	79.13 *	74.37 *	69.40 *	64.45 *	59.21 *	66.62 *
19.5	57.68 *	113.95 *	111.10 *	106.75 *	100.79 *	93.40 *	85.76 *	78.40 *	71.06 *	79.10 *
17	61.50 *	121.34 *	118.08 *	112.89 *	105.70 *	96.90 *	87.67 *	78.44 *	69.77 *	76.56 *
15	58.30 *	115.11 *	112.04 *	107.30 *	100.67 *	92.31 *	82.88 *	73.16 *	63.98 *	68.95 *
13	65.08 *	128.75 *	125.68 *	121.03 *	114.39 *	105.59 *	95.10 *	83.74 *	72.53 *	76.76 *
11	70.46 *	139.72 *	137.05 *	132.66 *	126.18 *	117.46 *	106.80 *	94.51 *	81.63 *	85.10 *
9	74.84 *	148.64 *	146.13 *	141.88 *	135.78 *	127.40 *	116.74 *	104.29 *	90.34 *	93.43 *
7	78.32 *	155.64 *	153.14 *	149.03 *	143.14 *	135.07 *	124.77 *	112.33 *	97.87 *	101.15 *
5	80.85 *	160.71 *	158.34 *	154.35 *	148.40 *	140.66 *	130.73 *	118.25 *	103.59 *	107.19 *
3	82.17 *	163.62 *	161.67 *	157.90 *	152.07 *	144.39 *	134.57 *	122.29 *	107.73 *	111.84 *
1	82.54 *	164.75 *	163.44 *	160.04 *	154.24 *	146.49 *	136.86 *	124.96 *	110.53 *	115.11 *
0	41.28 *	82.49 *	82.00 *	80.39 *	77.46 *	73.64 *	68.89 *	63.06 *	55.89 *	58.31 *
-1	41.28 *	82.49 *	82.00 *	80.39 *	77.46 *	73.64 *	68.89 *	63.06 *	55.89 *	58.31 *
	82.54 *	164.75 *	163.44 *	160.04 *	154.24 *	146.49 *	136.86 *	124.96 *	110.53 *	115.11 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	82.17 *	163.62 *	161.67 *	157.90 *	152.07 *	144.39 *	134.57 *	122.29 *	107.73 *	111.84 *
-5	80.85 *	160.71 *	158.34 *	154.35 *	148.40 *	140.66 *	130.73 *	118.25 *	103.59 *	107.19 *
-7	78.32 *	155.64 *	153.14 *	149.03 *	143.14 *	135.07 *	124.77 *	112.33 *	97.87 *	101.15 *
-9	74.84 *	148.64 *	146.13 *	141.88 *	135.78 *	127.40 *	116.74 *	104.29 *	90.34 *	93.43 *
-11	70.46 *	139.72 *	137.05 *	132.66 *	126.18 *	117.46 *	106.80 *	94.51 *	81.63 *	85.10 *
-13	65.08 *	128.75 *	125.68 *	121.03 *	114.39 *	105.59 *	95.10 *	83.74 *	72.53 *	76.76 *
-15	58.30 *	115.11 *	112.04 *	107.30 *	100.67 *	92.31 *	82.88 *	73.16 *	63.98 *	68.95 *
-17	61.50 *	121.34 *	118.08 *	112.89 *	105.70 *	96.90 *	87.67 *	78.44 *	69.77 *	76.56 *
-19.5	57.68 *	113.95 *	111.10 *	106.75 *	100.79 *	93.40 *	85.76 *	78.40 *	71.06 *	79.10 *
-22.5	44.14 *	87.40 *	85.61 *	82.92 *	79.13 *	74.37 *	69.40 *	64.45 *	59.21 *	66.62 *
-25.5	40.00 *	79.35 *	77.95 *	75.77 *	72.76 *	69.05 *	65.00 *	60.67 *	56.07 *	63.44 *
-29	34.33 *	68.26 *	67.22 *	65.52 *	63.17 *	60.23 *	56.77 *	53.02 *	49.17 *	55.76 *
-33	27.21 *	54.24 *	53.55 *	52.28 *	50.52 *	48.21 *	45.44 *	42.43 *	39.32 *	44.48 *
-37.5	19.14	38.23	37.72	36.74	35.48	33.87	31.91	29.63	27.19	30.52
-42.5	10.21	20.35	20.03	19.48	18.86	18.03	17.02	15.83	14.53	16.43
-47.5	7.38	14.71	14.52	14.23	13.90	13.46	12.93	12.32	11.63	13.65
-55	5.00	9.99	9.91	9.77	9.61	9.40	9.15	8.85	8.50	10.10
-65	2.14	4.27	4.24	4.20	4.16	4.10	4.03	3.94	3.83	4.62
-75	0.71	1.41	1.40	1.39	1.38	1.36	1.34	1.31	1.28	1.56
-85	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.12
-90										
Total	1886.68	3746.1	3681.85	3573.31	3415.81	3211.02	2967.71	2691.98	2391.59	2561.62

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	0.15	0.15	0.15	0.15	0.12	0.13	0.10	0.04
85	1.79	1.68	1.83	1.90	1.90	1.79	1.46	1.61	1.23	0.49
75	5.26	4.94	5.33	5.47	5.34	4.92	3.92	4.26	3.22	1.26
65	11.39	10.71	11.63	11.85	11.24	10.05	7.81	8.15	5.84	2.21
55	15.35	14.37	15.32	15.16	13.95	12.35	9.50	9.52	6.48	2.34

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LUMENS TABULATION - (Cont.)

47.5										
	17.33	14.92	14.75	14.11	13.02	11.20	8.43	8.36	5.46	1.90
42.5										
	31.32	25.71	23.68	20.38	17.16	14.21	10.30	10.00	6.50	2.20
37.5										
	46.24	38.49	35.33	28.91	21.49	16.04	11.18	10.57	6.81	2.23
33										
	58.28 *	48.87 *	45.59	37.99	27.40	18.07	11.53	10.90	6.79	2.18
29										
	66.20 *	55.41 *	51.82 *	43.86	32.26	20.19	11.59	10.62	6.43	2.05
25.5										
	69.23 *	57.71 *	53.74 *	45.75 *	34.30	21.34	11.37	9.72	5.82	1.85
22.5										
	81.50 *	67.56 *	62.72 *	53.41 *	40.45	25.52	12.90	10.16	6.10	1.93
19.5										
	77.80 *	64.03 *	59.24 *	50.33 *	38.35 *	24.56	12.05	8.88	5.34	1.66
17										
	69.13 *	56.39 *	51.91 *	43.97 *	33.60 *	21.67	10.54	7.48	4.43	1.36
15										
	75.55 *	60.92 *	55.78 *	47.09 *	35.98 *	23.40	11.38	7.85	4.56	1.38
13										
	81.95 *	65.13 *	59.32 *	50.00 *	38.16 *	24.98	12.14	8.17	4.67	1.41
11										
	88.53 *	69.16 *	62.48 *	52.54 *	40.07 *	26.31	12.79	8.44	4.77	1.42
9										
	94.65 *	72.85 *	65.31 *	54.69 *	41.63 *	27.38	13.32	8.66	4.84	1.44
7										
	99.48 *	75.84 *	67.64 *	56.47 *	42.85 *	28.21	13.74	8.83	4.91	1.45
5										
	103.38 *	78.13 *	69.38 *	57.79 *	43.74 *	28.84	14.09	8.99	4.97	1.46
3										
	106.25 *	79.65 *	70.44 *	58.62 *	44.32 *	29.18	14.24	9.08	5.00	1.46
1										
	53.79 *	40.15 *	35.43 *	29.48 *	22.28 *	14.62	7.10	4.54	2.50	0.73
0										
	53.79 *	40.15 *	35.43 *	29.48 *	22.28 *	14.62	7.10	4.54	2.50	0.73
-1										
	106.25 *	79.65 *	70.44 *	58.62 *	44.32 *	29.18	14.24	9.08	5.00	1.46
-3										
	103.38 *	78.13 *	69.38 *	57.79 *	43.74 *	28.84	14.09	8.99	4.97	1.46
-5										
	99.48 *	75.84 *	67.64 *	56.47 *	42.85 *	28.21	13.74	8.83	4.91	1.45
-7										
	94.65 *	72.85 *	65.31 *	54.69 *	41.63 *	27.38	13.32	8.66	4.84	1.44
-9										
	88.53 *	69.16 *	62.48 *	52.54 *	40.07 *	26.31	12.79	8.44	4.77	1.42
-11										
	81.95 *	65.13 *	59.32 *	50.00 *	38.16 *	24.98	12.14	8.17	4.67	1.41
-13										
	75.55 *	60.92 *	55.78 *	47.09 *	35.98 *	23.40	11.38	7.85	4.56	1.38
-15										
	69.13 *	56.39 *	51.91 *	43.97 *	33.60 *	21.67	10.54	7.48	4.43	1.36
-17										
	77.80 *	64.03 *	59.24 *	50.33 *	38.35 *	24.56	12.05	8.88	5.34	1.66
-19.5										
	81.50 *	67.56 *	62.72 *	53.41 *	40.45	25.52	12.90	10.16	6.10	1.93

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	69.23 *	57.71 *	53.74 *	45.75 *	34.30	21.34	11.37	9.72	5.82	1.85
-25.5	66.20 *	55.41 *	51.82 *	43.86	32.26	20.19	11.59	10.62	6.43	2.05
-29	58.28 *	48.87 *	45.59	37.99	27.40	18.07	11.53	10.90	6.79	2.18
-33	46.24	38.49	35.33	28.91	21.49	16.04	11.18	10.57	6.81	2.23
-37.5	31.32	25.71	23.68	20.38	17.16	14.21	10.30	10.00	6.50	2.20
-42.5	17.33	14.92	14.75	14.11	13.02	11.20	8.43	8.36	5.46	1.90
-47.5	15.35	14.37	15.32	15.16	13.95	12.35	9.50	9.52	6.48	2.34
-55	11.39	10.71	11.63	11.85	11.24	10.05	7.81	8.15	5.84	2.21
-65	5.26	4.94	5.33	5.47	5.34	4.92	3.92	4.26	3.22	1.26
-75	1.79	1.68	1.83	1.90	1.90	1.79	1.46	1.61	1.23	0.49
-85	0.14	0.13	0.15	0.15	0.15	0.15	0.12	0.13	0.10	0.04
-90										
Total	2509.1	2005.49	1837.69	1559.85	1199.26	810.01	443.05	349.85	213.58	68.92

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		2.33
85				
	0.11	0.00		28.93
75				
	0.25	0.01		83.71
65				
	0.43	0.01		181.60
55				
	0.45	0.01		243.56
47.5				
	0.36	0.01		280.63
42.5				
	0.41	0.01		482.33
37.5				
	0.41	0.01		675.41
33				
	0.39	0.01		841.46
29				
	0.36	0.01		960.87
25.5				
	0.32	0.01		1024.42
22.5				
	0.33	0.01		1260.57
19.5				
	0.28	0.01		1271.37
17				
	0.23	0.00		1175.43

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

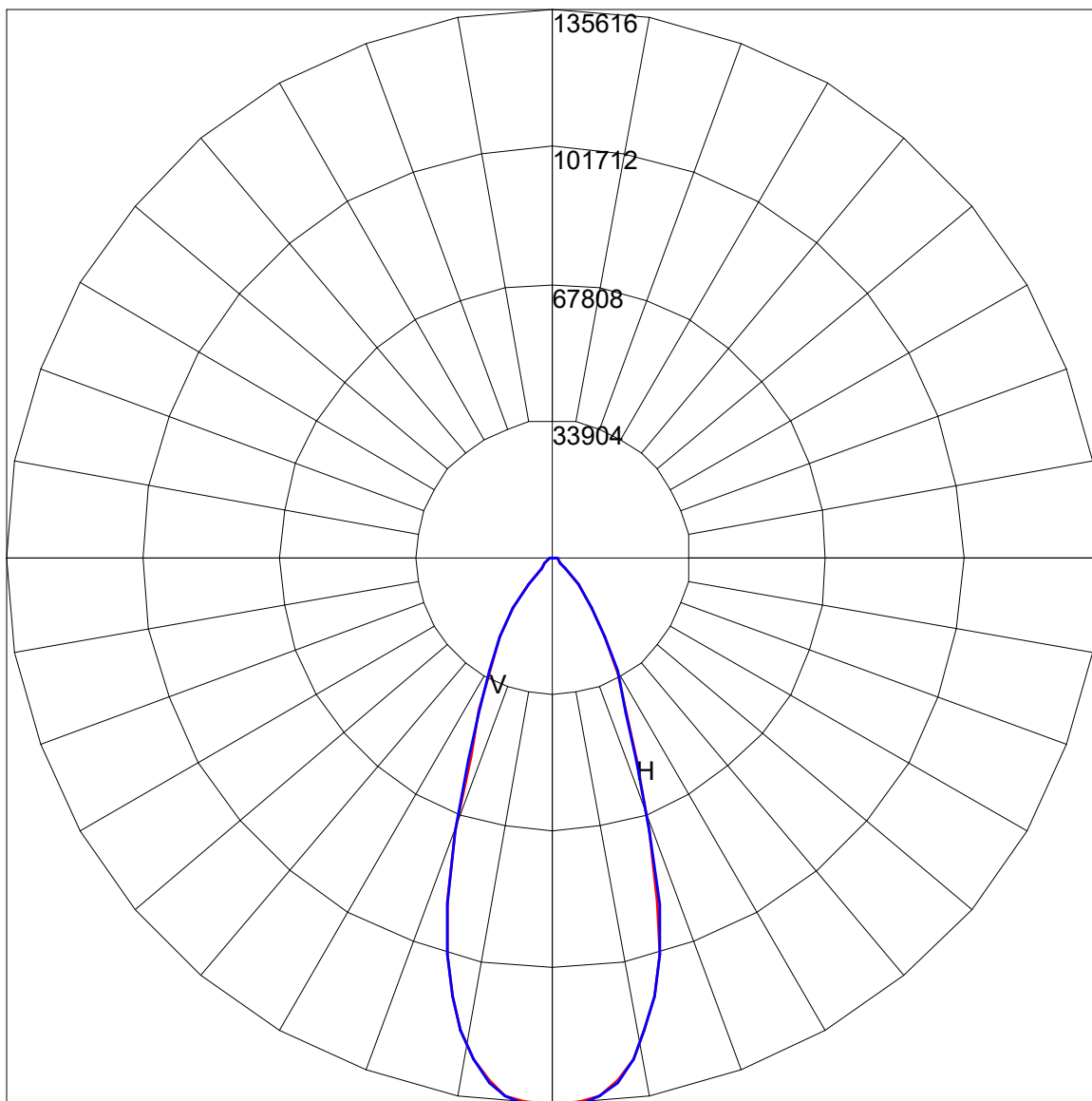
15	0.23	0.00	1312.78
13	0.24	0.00	1437.75
11	0.24	0.00	1546.25
9	0.24	0.00	1635.49
7	0.24	0.00	1702.75
5	0.25	0.00	1749.27
3	0.25	0.00	1777.45
1	0.12	0.00	894.17
0	0.12	0.00	894.17
-1	0.25	0.00	1777.45
-3	0.25	0.00	1749.27
-5	0.24	0.00	1702.75
-7	0.24	0.00	1635.49
-9	0.24	0.00	1546.25
-11	0.24	0.00	1437.75
-13	0.23	0.00	1312.78
-15	0.23	0.00	1175.43
-17	0.28	0.01	1271.37
-19.5	0.33	0.01	1260.57
-22.5	0.32	0.01	1024.42
-25.5	0.36	0.01	960.87
-29	0.39	0.01	841.46
-33	0.41	0.01	675.41
-37.5	0.41	0.01	482.33
-42.5	0.36	0.01	280.63
-47.5	0.45	0.01	243.56
-55	0.43	0.01	181.60
-65	0.25	0.01	83.71

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

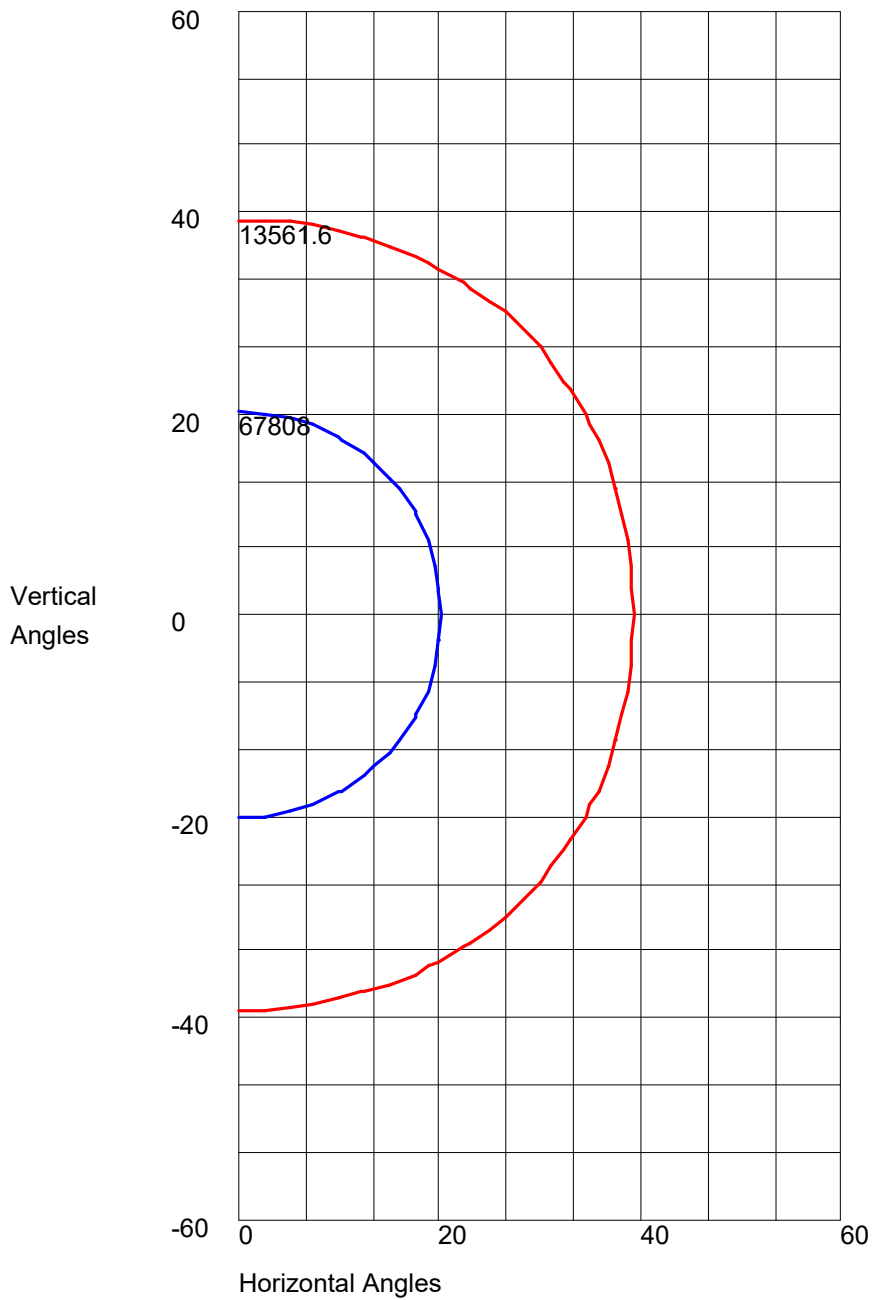
-75	0.11	0.00	28.93
-85	0.01	0.00	2.33
-90			
Total	12.30	0.25	41137.01

AXIAL CANDELA DISPLAY



Maximum Candela = 135616 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 135616 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 67808
10% Maximum Candela = 13561.6