



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-85L-MF-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13129
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/30/22
[TEST DATE] 12/15/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-85L-MF-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	4 H x 4 V
Maximum Candela	204010
Maximum Candela Angle	-1H -1V
Horizontal Beam Angle (50%)	32.2
Vertical Beam Angle (50%)	32.2
Horizontal Field Angle (10%)	60.6
Vertical Field Angle (10%)	60.7
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	38373
Beam Efficiency	N.A.
Field Lumens	66159
Field Efficiency	N.A.
Spill Lumens	16722
Luminaire Lumens	82881
Total Efficiency	N.A.
Total Luminaire Watts	573.5
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	85	85	87
75	475	75	475
65	1105	65	1107
55	2603	55	2618
47.5	4221	47.5	4233
42.5	6233	42.5	6234
37.5	10053	37.5	10088
33	15459	33	15671
29	22880	29	23014
25.5	34268	25.5	34578
22.5	48065	22.5	48431
19.5	67759	19.5	68160
17	91202	17	91739
15	115400	15	116121
13	139607	13	140238
11	159781	11	160313
9	175944	9	176378
7	188550	7	188960
5	198480	5	199082
3	202818	3	203131
1	203816	1	203912
0	203758	0	203758
-1	203816	-1	203912
-3	202818	-3	203131
-5	198480	-5	199082
-7	188550	-7	188960
-9	175944	-9	176378
-11	159781	-11	160313
-13	139607	-13	140238
-15	115400	-15	116121
-17	91202	-17	91739
-19.5	67759	-19.5	68160
-22.5	48065	-22.5	48431
-25.5	34268	-25.5	34578
-29	22880	-29	23014
-33	15459	-33	15671
-37.5	10053	-37.5	10088
-42.5	6233	-42.5	6234
-47.5	4221	-47.5	4233
-55	2603	-55	2618
-65	1105	-65	1107
-75	475	-75	475
-85	85	-85	87
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 204010

Beam Edge = 102005 Cd (50% of Max.)

Field Edge = 20401 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	5	15	24	37	50	57	63	68	72
75.0	0	15	62	129	203	259	297	332	361	390
65.0	0	24	131	273	433	542	618	705	789	854
55.0	0	38	206	435	690	933	1124	1328	1528	1721
47.5	0	50	261	551	931	1320	1673	2138	2404	2813
42.5	0	57	299	631	1115	1689	2172	2700	3324	3764
37.5	0	63	335	716	1318	2098	2700	3511	4114	4771
33.0	0	69	363	793	1535	2403	3323	4135	5007	6166
29.0	0	73	387	857	1717	2804	3775	4756	6150	7984
25.5	0	76	406	912	1876	3159	4135	5433	7429	9896
22.5	0	78	420	951	2000	3384	4443	6097	8652	11803
19.5	0	80	433	991	2124	3571	4780	6869	9926	13729
17.0	0	81	443	1020	2222	3710	5035	7504	11085	15342
15.0	0	82	450	1040	2295	3830	5291	7962	11968	16562
13.0	0	83	456	1057	2362	3933	5539	8508	12745	17849
11.0	0	86	461	1072	2423	4019	5747	8980	13518	18994
9.0	0	86	466	1084	2478	4087	5919	9373	14217	19982
7.0	0	86	469	1093	2524	4139	6055	9690	14765	20953 *
5.0	0	85	474	1100	2558	4176	6153	9931	15160	21848 *
3.0	0	85	475	1107	2593	4222	6254	10064	15403	22451 *
1.0	0	85	475	1106	2600	4221	6240	10087	15476	22813 *
0.0	0	85	475	1105	2603	4221	6233	10053	15459	22880 *
-1.0	0	85	475	1106	2600	4221	6240	10087	15476	22813 *
-3.0	0	85	475	1107	2593	4222	6254	10064	15403	22451 *
-5.0	0	85	474	1100	2558	4176	6153	9931	15160	21848 *
-7.0	0	86	469	1093	2524	4139	6055	9690	14765	20953 *
-9.0	0	86	466	1084	2478	4087	5919	9373	14217	19982
-11.0	0	86	461	1072	2423	4019	5747	8980	13518	18994
-13.0	0	83	456	1057	2362	3933	5539	8508	12745	17849
-15.0	0	82	450	1040	2295	3830	5291	7962	11968	16562
-17.0	0	81	443	1020	2222	3710	5035	7504	11085	15342
-19.5	0	80	433	991	2124	3571	4780	6869	9926	13729
-22.5	0	78	420	951	2000	3384	4443	6097	8652	11803
-25.5	0	76	406	912	1876	3159	4135	5433	7429	9896
-29.0	0	73	387	857	1717	2804	3775	4756	6150	7984
-33.0	0	69	363	793	1535	2403	3323	4135	5007	6166
-37.5	0	63	335	716	1318	2098	2700	3511	4114	4771
-42.5	0	57	299	631	1115	1689	2172	2700	3324	3764
-47.5	0	50	261	551	931	1320	1673	2138	2404	2813
-55.0	0	38	206	435	690	933	1124	1328	1528	1721
-65.0	0	24	131	273	433	542	618	705	789	854
-75.0	0	15	62	129	203	259	297	332	361	390
-85.0	0	5	15	24	37	50	57	63	68	72
-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	75	79	82	84	86	87	90	89	89	89
75.0	413	429	439	445	448	453	458	462	465	470
65.0	907	943	985	1016	1039	1058	1074	1087	1098	1107
55.0	1895	2020	2127	2210	2271	2328	2387	2444	2495	2539
47.5	3193	3426	3637	3778	3874	3959	4032	4099	4152	4190
42.5	4135	4447	4783	5026	5270	5513	5724	5901	6045	6157
37.5	5456	6118	6867	7456	7891	8447	8940	9361	9677	9915
33.0	7444	8677	9932	11071	11979	12795	13531	14195	14754	15177
29.0	9947	11763	13673	15310	16499	17785	18939	19898	20870 *	21776 *
25.5	12485	14927	17575	19791	22022 *	24316 *	26334 *	28662 *	30656 *	32217 *
22.5	14976	18046	21732 *	25537 *	29120 *	32870 *	36345 *	40090 *	43072 *	45319 *
19.5	17593	21729 *	27337 *	33458 *	38623 *	44137 *	49430 *	54941 *	59249 *	62482 *
17.0	19773	25535 *	33562 *	41293 *	47743 *	55275 *	62302 *	70722 *	77974 *	83631 *
15.0	21976 *	29168 *	38897 *	47986 *	56254 *	65110 *	76255 *	86205 *	97323 *	106189 *
13.0	24230 *	32971 *	44383 *	55747 *	65457 *	77778 *	91748 *	106611 *	119067 *	129073 *
11.0	26247 *	36426 *	49440 *	62753 *	76647 *	91874 *	110087 *	126363 *	140285 *	150048 *
9.0	28654 *	39997 *	54789 *	70900 *	86323 *	106700 *	126230 *	144780 *	157315 *	167021 *
7.0	30713 *	42898 *	59165 *	78069 *	97394 *	119048 *	139909 *	157103 *	171212 *	179576 *
5.0	32312 *	45278 *	62527 *	83773 *	106224 *	129076 *	150067 *	167030 *	179675 *	189299 *
3.0	33405 *	47040 *	65744 *	88580 *	112378 *	136342 *	157153 *	173544 *	186105 *	194988 *
1.0	34096 *	48054 *	67538 *	91194 *	115818 *	139601 *	160104 *	176400 *	188851 *	198894 *
0.0	34268 *	48065 *	67759 *	91202 *	115400 *	139607 *	159781 *	175944 *	188550 *	198480 *
-1.0	34096 *	48054 *	67538 *	91194 *	115818 *	139601 *	160104 *	176400 *	188851 *	198894 *
-3.0	33405 *	47040 *	65744 *	88580 *	112378 *	136342 *	157153 *	173544 *	186105 *	194988 *
-5.0	32312 *	45278 *	62527 *	83773 *	106224 *	129076 *	150067 *	167030 *	179675 *	189299 *
-7.0	30713 *	42898 *	59165 *	78069 *	97394 *	119048 *	139909 *	157103 *	171212 *	179576 *
-9.0	28654 *	39997 *	54789 *	70900 *	86323 *	106700 *	126230 *	144780 *	157315 *	167021 *
-11.0	26247 *	36426 *	49440 *	62753 *	76647 *	91874 *	110087 *	126363 *	140285 *	150048 *
-13.0	24230 *	32971 *	44383 *	55747 *	65457 *	77778 *	91748 *	106611 *	119067 *	129073 *
-15.0	21976 *	29168 *	38897 *	47986 *	56254 *	65110 *	76255 *	86205 *	97323 *	106189 *
-17.0	19773	25535 *	33562 *	41293 *	47743 *	55275 *	62302 *	70722 *	77974 *	83631 *
-19.5	17593	21729 *	27337 *	33458 *	38623 *	44137 *	49430 *	54941 *	59249 *	62482 *
-22.5	14976	18046	21732 *	25537 *	29120 *	32870 *	36345 *	40090 *	43072 *	45319 *
-25.5	12485	14927	17575	19791	22022 *	24316 *	26334 *	28662 *	30656 *	32217 *
-29.0	9947	11763	13673	15310	16499	17785	18939	19898	20870 *	21776 *
-33.0	7444	8677	9932	11071	11979	12795	13531	14195	14754	15177
-37.5	5456	6118	6867	7456	7891	8447	8940	9361	9677	9915
-42.5	4135	4447	4783	5026	5270	5513	5724	5901	6045	6157
-47.5	3193	3426	3637	3778	3874	3959	4032	4099	4152	4190
-55.0	1895	2020	2127	2210	2271	2328	2387	2444	2495	2539
-65.0	907	943	985	1016	1039	1058	1074	1087	1098	1107
-75.0	413	429	439	445	448	453	458	462	465	470
-85.0	75	79	82	84	86	87	90	89	89	89
-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	88	87	87	87	88	89	89	89	90	87
75.0	472	474	475	474	472	470	465	462	458	453
65.0	1112	1109	1107	1109	1112	1107	1098	1087	1074	1058

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CANDELA TABULATION - (Cont.)

55.0	2587	2608	2618	2608	2587	2539	2495	2444	2387	2328
47.5	4232	4233	4233	4233	4232	4190	4152	4099	4032	3959
42.5	6270	6246	6234	6246	6270	6157	6045	5901	5724	5513
37.5	10072	10113	10088	10113	10072	9915	9677	9361	8940	8447
33.0	15456	15633	15671	15633	15456	15177	14754	14195	13531	12795
29.0	22386 *	22859 *	23014 *	22859 *	22386 *	21776 *	20870 *	19898	18939	17785
25.5	33284 *	34190 *	34578 *	34190 *	33284 *	32217 *	30656 *	28662 *	26334 *	24316 *
22.5	46760 *	47977 *	48431 *	47977 *	46760 *	45319 *	43072 *	40090 *	36345 *	32870 *
19.5	65574 *	67522 *	68160 *	67522 *	65574 *	62482 *	59249 *	54941 *	49430 *	44137 *
17.0	88116 *	90885 *	91739 *	90885 *	88116 *	83631 *	77974 *	70722 *	62302 *	55275 *
15.0	112349 *	116018 *	116121 *	116018 *	112349 *	106189 *	97323 *	86205 *	76255 *	65110 *
13.0	136374 *	139724 *	140238 *	139724 *	136374 *	129073 *	119067 *	106611 *	91748 *	77778 *
11.0	156980 *	160020 *	160313 *	160020 *	156980 *	150048 *	140285 *	126363 *	110087 *	91874 *
9.0	173295 *	176324 *	176378 *	176324 *	173295 *	167021 *	157315 *	144780 *	126230 *	106700 *
7.0	185831 *	189020 *	188960 *	189020 *	185831 *	179576 *	171212 *	157103 *	139909 *	119048 *
5.0	195091 *	199465 *	199082 *	199465 *	195091 *	189299 *	179675 *	167030 *	150067 *	129076 *
3.0	200762 *	202903 *	203131 *	202903 *	200762 *	194988 *	186105 *	173544 *	157153 *	136342 *
1.0	202677 *	204010 *	203912 *	204010 *	202677 *	198894 *	188851 *	176400 *	160104 *	139601 *
0.0	202818 *	203816 *	203758 *	203816 *	202818 *	198480 *	188550 *	175944 *	159781 *	139607 *
-1.0	202677 *	204010 *	203912 *	204010 *	202677 *	198894 *	188851 *	176400 *	160104 *	139601 *
-3.0	200762 *	202903 *	203131 *	202903 *	200762 *	194988 *	186105 *	173544 *	157153 *	136342 *
-5.0	195091 *	199465 *	199082 *	199465 *	195091 *	189299 *	179675 *	167030 *	150067 *	129076 *
-7.0	185831 *	189020 *	188960 *	189020 *	185831 *	179576 *	171212 *	157103 *	139909 *	119048 *
-9.0	173295 *	176324 *	176378 *	176324 *	173295 *	167021 *	157315 *	144780 *	126230 *	106700 *
-11.0	156980 *	160020 *	160313 *	160020 *	156980 *	150048 *	140285 *	126363 *	110087 *	91874 *
-13.0	136374 *	139724 *	140238 *	139724 *	136374 *	129073 *	119067 *	106611 *	91748 *	77778 *
-15.0	112349 *	116018 *	116121 *	116018 *	112349 *	106189 *	97323 *	86205 *	76255 *	65110 *
-17.0	88116 *	90885 *	91739 *	90885 *	88116 *	83631 *	77974 *	70722 *	62302 *	55275 *
-19.5	65574 *	67522 *	68160 *	67522 *	65574 *	62482 *	59249 *	54941 *	49430 *	44137 *
-22.5	46760 *	47977 *	48431 *	47977 *	46760 *	45319 *	43072 *	40090 *	36345 *	32870 *
-25.5	33284 *	34190 *	34578 *	34190 *	33284 *	32217 *	30656 *	28662 *	26334 *	24316 *
-29.0	22386 *	22859 *	23014 *	22859 *	22386 *	21776 *	20870 *	19898	18939	17785
-33.0	15456	15633	15671	15633	15456	15177	14754	14195	13531	12795
-37.5	10072	10113	10088	10113	10072	9915	9677	9361	8940	8447
-42.5	6270	6246	6234	6246	6270	6157	6045	5901	5724	5513
-47.5	4232	4233	4233	4233	4232	4190	4152	4099	4032	3959
-55.0	2587	2608	2618	2608	2587	2539	2495	2444	2387	2328
-65.0	1112	1109	1107	1109	1112	1107	1098	1087	1074	1058
-75.0	472	474	475	474	472	470	465	462	458	453
-85.0	88	87	87	87	88	89	89	89	90	87
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
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	86	84	82	79	75	72	68	63	57	50
75.0	448	445	439	429	413	390	361	332	297	259
65.0	1039	1016	985	943	907	854	789	705	618	542
55.0	2271	2210	2127	2020	1895	1721	1528	1328	1124	933
47.5	3874	3778	3637	3426	3193	2813	2404	2138	1673	1320
42.5	5270	5026	4783	4447	4135	3764	3324	2700	2172	1689
37.5	7891	7456	6867	6118	5456	4771	4114	3511	2700	2098
33.0	11979	11071	9932	8677	7444	6166	5007	4135	3323	2403
29.0	16499	15310	13673	11763	9947	7984	6150	4756	3775	2804
25.5	22022 *	19791	17575	14927	12485	9896	7429	5433	4135	3159

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	29120 *	25537 *	21732 *	18046	14976	11803	8652	6097	4443	3384
19.5	38623 *	33458 *	27337 *	21729 *	17593	13729	9926	6869	4780	3571
17.0	47743 *	41293 *	33562 *	25535 *	19773	15342	11085	7504	5035	3710
15.0	56254 *	47986 *	38897 *	29168 *	21976 *	16562	11968	7962	5291	3830
13.0	65457 *	55747 *	44383 *	32971 *	24230 *	17849	12745	8508	5539	3933
11.0	76647 *	62753 *	49440 *	36426 *	26247 *	18994	13518	8980	5747	4019
9.0	86323 *	70900 *	54789 *	39997 *	28654 *	19982	14217	9373	5919	4087
7.0	97394 *	78069 *	59165 *	42898 *	30713 *	20953 *	14765	9690	6055	4139
5.0	106224 *	83773 *	62527 *	45278 *	32312 *	21848 *	15160	9931	6153	4176
3.0	112378 *	88580 *	65744 *	47040 *	33405 *	22451 *	15403	10064	6254	4222
1.0	115818 *	91194 *	67538 *	48054 *	34096 *	22813 *	15476	10087	6240	4221
0.0	115400 *	91202 *	67759 *	48065 *	34268 *	22880 *	15459	10053	6233	4221
-1.0	115818 *	91194 *	67538 *	48054 *	34096 *	22813 *	15476	10087	6240	4221
-3.0	112378 *	88580 *	65744 *	47040 *	33405 *	22451 *	15403	10064	6254	4222
-5.0	106224 *	83773 *	62527 *	45278 *	32312 *	21848 *	15160	9931	6153	4176
-7.0	97394 *	78069 *	59165 *	42898 *	30713 *	20953 *	14765	9690	6055	4139
-9.0	86323 *	70900 *	54789 *	39997 *	28654 *	19982	14217	9373	5919	4087
-11.0	76647 *	62753 *	49440 *	36426 *	26247 *	18994	13518	8980	5747	4019
-13.0	65457 *	55747 *	44383 *	32971 *	24230 *	17849	12745	8508	5539	3933
-15.0	56254 *	47986 *	38897 *	29168 *	21976 *	16562	11968	7962	5291	3830
-17.0	47743 *	41293 *	33562 *	25535 *	19773	15342	11085	7504	5035	3710
-19.5	38623 *	33458 *	27337 *	21729 *	17593	13729	9926	6869	4780	3571
-22.5	29120 *	25537 *	21732 *	18046	14976	11803	8652	6097	4443	3384
-25.5	22022 *	19791	17575	14927	12485	9896	7429	5433	4135	3159
-29.0	16499	15310	13673	11763	9947	7984	6150	4756	3775	2804
-33.0	11979	11071	9932	8677	7444	6166	5007	4135	3323	2403
-37.5	7891	7456	6867	6118	5456	4771	4114	3511	2700	2098
-42.5	5270	5026	4783	4447	4135	3764	3324	2700	2172	1689
-47.5	3874	3778	3637	3426	3193	2813	2404	2138	1673	1320
-55.0	2271	2210	2127	2020	1895	1721	1528	1328	1124	933
-65.0	1039	1016	985	943	907	854	789	705	618	542
-75.0	448	445	439	429	413	390	361	332	297	259
-85.0	86	84	82	79	75	72	68	63	57	50
-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	37	24	15	5	0
75.0	203	129	62	15	0
65.0	433	273	131	24	0
55.0	690	435	206	38	0
47.5	931	551	261	50	0
42.5	1115	631	299	57	0
37.5	1318	716	335	63	0
33.0	1535	793	363	69	0
29.0	1717	857	387	73	0
25.5	1876	912	406	76	0
22.5	2000	951	420	78	0
19.5	2124	991	433	80	0
17.0	2222	1020	443	81	0
15.0	2295	1040	450	82	0
13.0	2362	1057	456	83	0
11.0	2423	1072	461	86	0
9.0	2478	1084	466	86	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	2524	1093	469	86	0
5.0	2558	1100	474	85	0
3.0	2593	1107	475	85	0
1.0	2600	1106	475	85	0
0.0	2603	1105	475	85	0
-1.0	2600	1106	475	85	0
-3.0	2593	1107	475	85	0
-5.0	2558	1100	474	85	0
-7.0	2524	1093	469	86	0
-9.0	2478	1084	466	86	0
-11.0	2423	1072	461	86	0
-13.0	2362	1057	456	83	0
-15.0	2295	1040	450	82	0
-17.0	2222	1020	443	81	0
-19.5	2124	991	433	80	0
-22.5	2000	951	420	78	0
-25.5	1876	912	406	76	0
-29.0	1717	857	387	73	0
-33.0	1535	793	363	69	0
-37.5	1318	716	335	63	0
-42.5	1115	631	299	57	0
-47.5	931	551	261	50	0
-55.0	690	435	206	38	0
-65.0	433	273	131	24	0
-75.0	203	129	62	15	0
-85.0	37	24	15	5	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) = 41440.26

Total Field Lumens (one side of beam only) = 33079.37

* 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	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.15
75	0.86	1.71	1.70	1.69	1.67	1.65	1.62	1.59	1.56	1.90
65	2.41	4.82	4.80	4.76	4.69	4.62	4.53	4.43	4.32	5.22
55	5.67	11.29	11.16	10.96	10.74	10.49	10.20	9.90	9.57	11.46
47.5	7.82	15.59	15.44	15.20	14.92	14.58	14.20	13.78	13.32	15.94
42.5	7.98	15.97	15.84	15.56	15.23	14.82	14.32	13.76	13.14	15.57
37.5	12.44	24.89	24.62	24.08	23.36	22.44	21.32	20.04	18.77	21.81
33	17.65	35.12	34.61	33.75	32.57	31.07	29.30	27.34	25.30	28.74
29	23.51	46.47	45.45	43.97	42.06	39.93	37.57	34.91	32.13	36.15
25.5	30.55 *	60.05 *	58.31 *	55.94 *	52.83 *	49.26 *	45.56 *	41.70	37.72	41.98
22.5	37.73 *	74.07 *	71.82 *	68.73 *	64.47 *	59.14 *	53.57 *	48.03 *	42.37 *	45.90 *
19.5	53.02 *	104.03 *	100.34 *	95.48 *	89.29 *	81.36 *	72.75 *	64.17 *	55.66 *	58.61 *
17	60.60 *	118.76 *	113.87 *	107.29 *	99.12 *	89.02 *	78.64 *	68.63 *	58.97 *	61.31 *
15	63.17 *	124.01 *	118.59 *	110.61 *	100.21 *	88.64 *	77.15 *	66.32 *	56.59 *	58.48 *
13	77.99 *	153.57 *	147.06 *	136.82 *	123.43 *	108.24 *	92.63 *	78.20 *	66.01 *	67.62 *
11	91.43 *	180.55 *	173.95 *	163.12 *	148.50 *	130.43 *	110.68 *	92.14 *	76.31 *	76.77 *
9	102.50 *	202.93 *	196.70 *	186.20 *	171.55 *	152.22 *	129.57 *	106.86 *	86.85 *	86.02 *
7	111.28 *	220.54 *	214.44 *	204.52 *	190.16 *	170.39 *	146.56 *	121.02 *	97.41 *	95.07 *
5	118.27 *	234.22 *	227.83 *	218.04 *	203.61 *	184.22 *	160.32 *	133.51 *	107.01 *	102.52 *
3	122.54 *	242.99 *	237.05 *	227.22 *	213.06 *	194.32 *	170.62 *	143.05 *	114.47 *	108.70 *
1	123.97 *	246.68 *	242.27 *	232.91 *	218.66 *	200.14 *	176.74 *	149.00 *	119.45 *	113.20 *
0	62.10 *	123.79 *	121.98 *	117.35 *	110.06 *	100.83 *	89.25 *	75.43 *	60.55 *	57.44 *
-1	62.10 *	123.79 *	121.98 *	117.35 *	110.06 *	100.83 *	89.25 *	75.43 *	60.55 *	57.44 *
	123.97 *	246.68 *	242.27 *	232.91 *	218.66 *	200.14 *	176.74 *	149.00 *	119.45 *	113.20 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	122.54 *	242.99 *	237.05 *	227.22 *	213.06 *	194.32 *	170.62 *	143.05 *	114.47 *	108.70 *
-5	118.27 *	234.22 *	227.83 *	218.04 *	203.61 *	184.22 *	160.32 *	133.51 *	107.01 *	102.52 *
-7	111.28 *	220.54 *	214.44 *	204.52 *	190.16 *	170.39 *	146.56 *	121.02 *	97.41 *	95.07 *
-9	102.50 *	202.93 *	196.70 *	186.20 *	171.55 *	152.22 *	129.57 *	106.86 *	86.85 *	86.02 *
-11	91.43 *	180.55 *	173.95 *	163.12 *	148.50 *	130.43 *	110.68 *	92.14 *	76.31 *	76.77 *
-13	77.99 *	153.57 *	147.06 *	136.82 *	123.43 *	108.24 *	92.63 *	78.20 *	66.01 *	67.62 *
-15	63.17 *	124.01 *	118.59 *	110.61 *	100.21 *	88.64 *	77.15 *	66.32 *	56.59 *	58.48 *
-17	60.60 *	118.76 *	113.87 *	107.29 *	99.12 *	89.02 *	78.64 *	68.63 *	58.97 *	61.31 *
-19.5	53.02 *	104.03 *	100.34 *	95.48 *	89.29 *	81.36 *	72.75 *	64.17 *	55.66 *	58.61 *
-22.5	37.73 *	74.07 *	71.82 *	68.73 *	64.47 *	59.14 *	53.57 *	48.03 *	42.37 *	45.90 *
-25.5	30.55 *	60.05 *	58.31 *	55.94 *	52.83 *	49.26 *	45.56 *	41.70	37.72	41.98
-29	23.51	46.47	45.45	43.97	42.06	39.93	37.57	34.91	32.13	36.15
-33	17.65	35.12	34.61	33.75	32.57	31.07	29.30	27.34	25.30	28.74
-37.5	12.44	24.89	24.62	24.08	23.36	22.44	21.32	20.04	18.77	21.81
-42.5	7.98	15.97	15.84	15.56	15.23	14.82	14.32	13.76	13.14	15.57
-47.5	7.82	15.59	15.44	15.20	14.92	14.58	14.20	13.78	13.32	15.94
-55	5.67	11.29	11.16	10.96	10.74	10.49	10.20	9.90	9.57	11.46
-65	2.41	4.82	4.80	4.76	4.69	4.62	4.53	4.43	4.32	5.22
-75	0.86	1.71	1.70	1.69	1.67	1.65	1.62	1.59	1.56	1.90
-85	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.15
-90										
Total	2267.1	4484.38	4355.99	4148.66	3860.68	3495.86	3074.47	2627.85	2195.21	2221.14

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.17	0.16	0.17	0.18	0.18	0.17	0.14	0.16	0.12	0.05
85	2.19	2.08	2.25	2.33	2.31	2.18	1.78	1.96	1.49	0.60
75	5.96	5.62	6.07	6.25	6.12	5.69	4.62	5.13	3.95	1.55
65	12.96	12.03	12.74	12.77	12.17	11.01	8.66	9.28	6.96	2.72
55	17.93	16.49	17.10	16.58	15.52	13.70	10.19	10.38	7.44	2.83

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	17.37	15.86	16.47	16.06	14.78	12.66	9.22	9.03	6.14	2.27
42.5	23.69	21.03	21.47	20.85	19.09	16.16	11.65	11.11	7.19	2.58
37.5	30.32	26.01	25.41	23.56	21.11	17.94	12.75	11.82	7.46	2.58
33	37.57	31.58	29.89	26.43	22.44	18.65	13.25	12.09	7.46	2.50
29	43.25	35.88	33.43	28.74	23.27	18.47	13.07	11.95	7.14	2.33
25.5	46.24	37.84	34.94	29.59	23.18	17.59	12.21	11.17	6.55	2.10
22.5	56.84 *	45.29	41.30	34.55	26.48	19.41	13.06	11.87	6.92	2.18
19.5	57.67 *	44.15 *	39.35	32.69	24.75	17.63	11.50	10.38	6.04	1.88
17	54.24 *	40.26 *	34.90	28.69	21.55	15.04	9.62	8.61	5.00	1.54
15	62.03 *	45.22 *	38.20	30.87	23.04	15.92	10.01	8.87	5.14	1.56
13	69.62 *	50.03 *	41.38 *	32.95	24.48	16.78	10.36	9.10	5.26	1.58
11	77.05 *	54.81 *	44.48 *	34.83	25.79	17.51	10.64	9.29	5.37	1.60
9	83.96 *	59.38 *	47.53 *	36.50	26.88	18.10	10.87	9.45	5.46	1.62
7	89.51 *	63.11 *	50.15 *	37.97	27.72	18.56	11.05	9.57	5.53	1.63
5	94.09 *	65.96 *	52.13 *	39.09	28.29	18.90	11.20	9.68	5.60	1.64
3	97.41 *	67.86 *	53.43 *	39.76	28.56	19.04	11.27	9.74	5.63	1.65
1	49.35 *	34.33 *	27.02 *	20.00	14.29	9.51	5.63	4.87	2.82	0.82
0	49.35 *	34.33 *	27.02 *	20.00	14.29	9.51	5.63	4.87	2.82	0.82
-1	97.41 *	67.86 *	53.43 *	39.76	28.56	19.04	11.27	9.74	5.63	1.65
-3	94.09 *	65.96 *	52.13 *	39.09	28.29	18.90	11.20	9.68	5.60	1.64
-5	89.51 *	63.11 *	50.15 *	37.97	27.72	18.56	11.05	9.57	5.53	1.63
-7	83.96 *	59.38 *	47.53 *	36.50	26.88	18.10	10.87	9.45	5.46	1.62
-9	77.05 *	54.81 *	44.48 *	34.83	25.79	17.51	10.64	9.29	5.37	1.60
-11	69.62 *	50.03 *	41.38 *	32.95	24.48	16.78	10.36	9.10	5.26	1.58
-13	62.03 *	45.22 *	38.20	30.87	23.04	15.92	10.01	8.87	5.14	1.56
-15	54.24 *	40.26 *	34.90	28.69	21.55	15.04	9.62	8.61	5.00	1.54
-17	57.67 *	44.15 *	39.35	32.69	24.75	17.63	11.50	10.38	6.04	1.88
-19.5	56.84 *	45.29	41.30	34.55	26.48	19.41	13.06	11.87	6.92	2.18

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	46.24	37.84	34.94	29.59	23.18	17.59	12.21	11.17	6.55	2.10
-25.5	43.25	35.88	33.43	28.74	23.27	18.47	13.07	11.95	7.14	2.33
-29	37.57	31.58	29.89	26.43	22.44	18.65	13.25	12.09	7.46	2.50
-33	30.32	26.01	25.41	23.56	21.11	17.94	12.75	11.82	7.46	2.58
-37.5	23.69	21.03	21.47	20.85	19.09	16.16	11.65	11.11	7.19	2.58
-42.5	17.37	15.86	16.47	16.06	14.78	12.66	9.22	9.03	6.14	2.27
-47.5	17.93	16.49	17.10	16.58	15.52	13.70	10.19	10.38	7.44	2.83
-55	12.96	12.03	12.74	12.77	12.17	11.01	8.66	9.28	6.96	2.72
-65	5.96	5.62	6.07	6.25	6.12	5.69	4.62	5.13	3.95	1.55
-75	2.19	2.08	2.25	2.33	2.31	2.18	1.78	1.96	1.49	0.60
-85	0.17	0.16	0.17	0.18	0.18	0.17	0.14	0.16	0.12	0.05
-90										
Total	2058.86	1549.94	1339.64	1102.46	864.04	641.25	425.54	391.08	241.32	79.62

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.01	0.00	2.80
85			
	0.13	0.00	35.23
75			
	0.31	0.01	95.88
65			
	0.53	0.01	203.27
55			
	0.55	0.01	269.50
47.5			
	0.44	0.01	262.49
42.5			
	0.50	0.01	369.12
37.5			
	0.49	0.01	474.92
33			
	0.47	0.01	584.48
29			
	0.44	0.01	691.89
25.5			
	0.39	0.01	787.63
22.5			
	0.40	0.01	1033.03
19.5			
	0.34	0.01	1102.61
17			
	0.28	0.01	1083.51

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

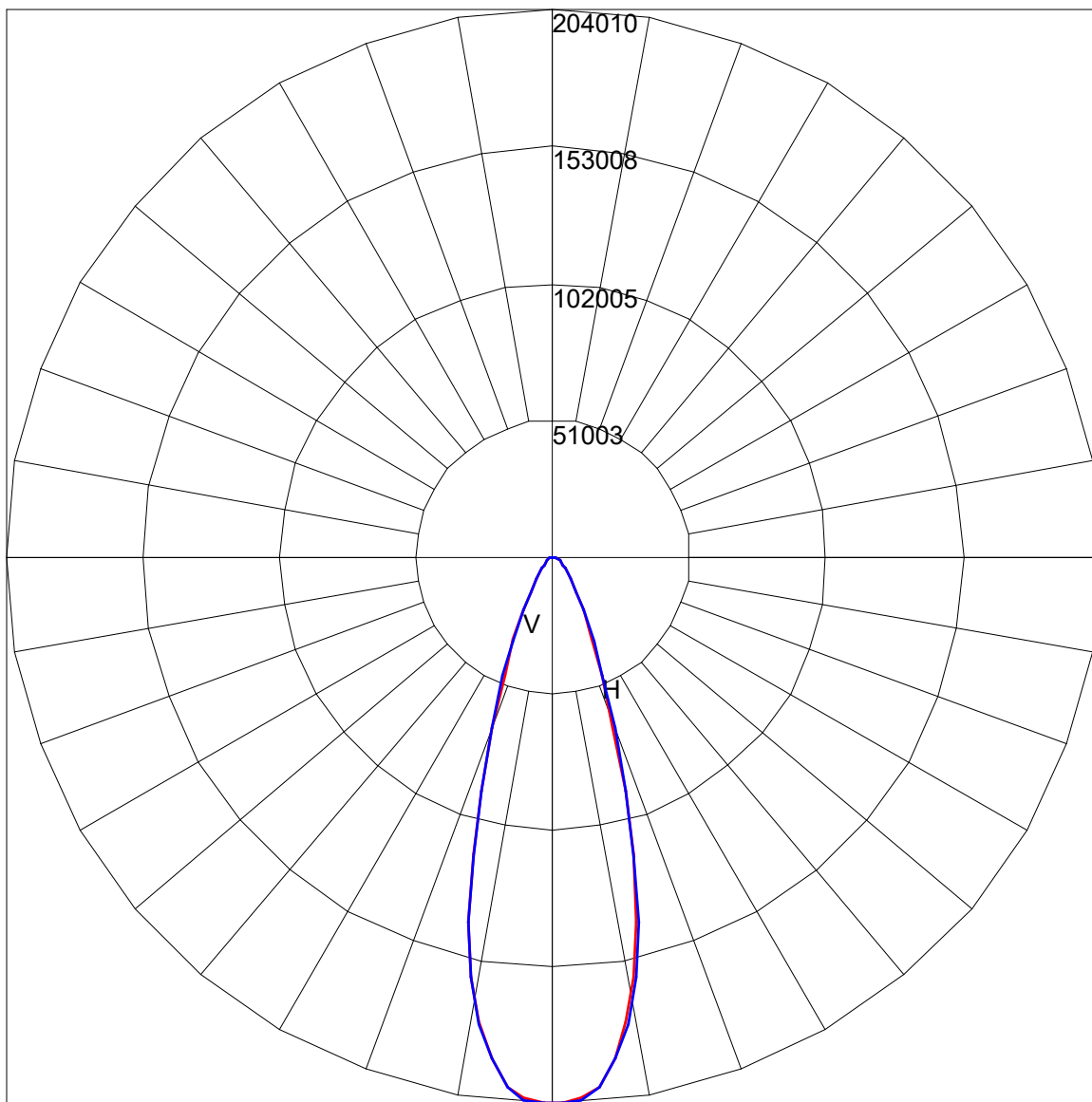
15	0.28	0.01	1292.73
13	0.29	0.01	1505.72
11	0.29	0.01	1703.09
9	0.29	0.01	1871.44
7	0.29	0.01	2004.67
5	0.30	0.01	2100.9
3	0.30	0.01	2157.67
1	0.15	0.00	1087.58
0	0.15	0.00	1087.58
-1	0.30	0.01	2157.67
-3	0.30	0.01	2100.9
-5	0.29	0.01	2004.67
-7	0.29	0.01	1871.44
-9	0.29	0.01	1703.09
-11	0.29	0.01	1505.72
-13	0.28	0.01	1292.73
-15	0.28	0.01	1083.51
-17	0.34	0.01	1102.61
-19.5	0.40	0.01	1033.03
-22.5	0.39	0.01	787.63
-25.5	0.44	0.01	691.89
-29	0.47	0.01	584.48
-33	0.49	0.01	474.92
-37.5	0.50	0.01	369.12
-42.5	0.44	0.01	262.49
-47.5	0.55	0.01	269.50
-55	0.53	0.01	203.27
-65	0.31	0.01	95.88

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

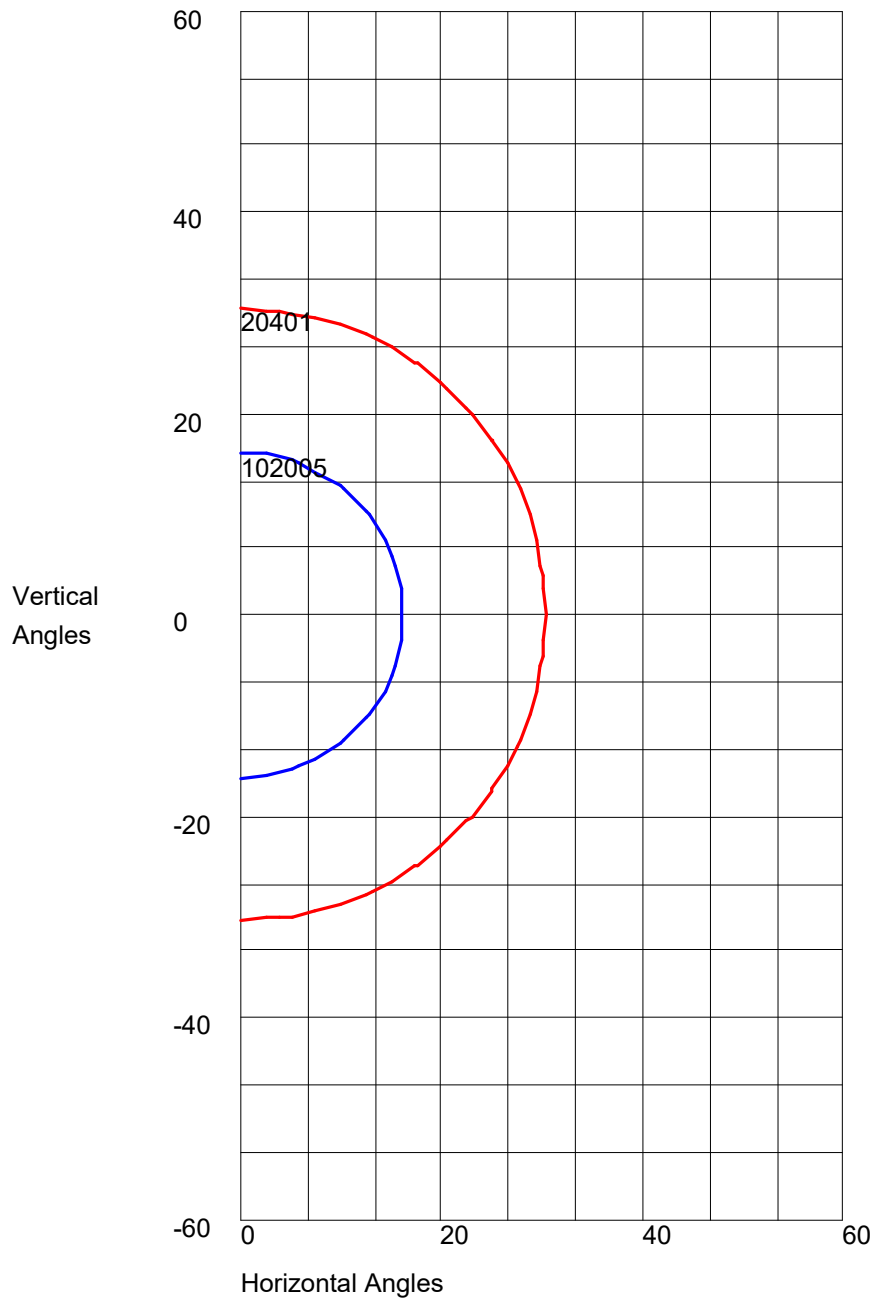
-75	0.13	0.00	35.23
-85	0.01	0.00	2.80
-90			
Total	14.92	0.30	41440.29

AXIAL CANDELA DISPLAY



Maximum Candela = 204010 Located At Horizontal Angle =-1, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 204010 Located At Horizontal Angle =-1, Vertical Angle =-1
50% Maximum Candela = 102005
10% Maximum Candela = 20401