



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13764
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 12/22/22
[TEST DATE] 11/23/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-100L-WF-40
[TEST PROCEDURE] IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 4000

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

CHARACTERISTICS

NEMA Type	6 H x 6 V
Maximum Candela	111696
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	44.7
Vertical Beam Angle (50%)	45.1
Horizontal Field Angle (10%)	107.3
Vertical Field Angle (10%)	107.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	39679
Beam Efficiency	N.A.
Field Lumens	93960
Field Efficiency	N.A.
Spill Lumens	9601
Luminaire Lumens	103561
Total Efficiency	N.A.
Total Luminaire Watts	767
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	162	85	160
75	1055	75	1075
65	2977	65	3017
55	9881	55	9960
47.5	17003	47.5	17103
42.5	22250	42.5	22329
37.5	27232	37.5	27198
33	32419	33	32472
29	38158	29	38288
25.5	45436	25.5	46186
22.5	55279	22.5	55973
19.5	67754	19.5	67900
17	77600	17	77705
15	84927	15	85057
13	91363	13	91610
11	97133	11	97338
9	102277	9	102228
7	106611	7	106269
5	109732	5	109455
3	111294	3	111289
1	111671	1	111696
0	111661	0	111661
-1	111671	-1	111696
-3	111294	-3	111289
-5	109732	-5	109455
-7	106611	-7	106269
-9	102277	-9	102228
-11	97133	-11	97338
-13	91363	-13	91610
-15	84927	-15	85057
-17	77600	-17	77705
-19.5	67754	-19.5	67900
-22.5	55279	-22.5	55973
-25.5	45436	-25.5	46186
-29	38158	-29	38288
-33	32419	-33	32472
-37.5	27232	-37.5	27198
-42.5	22250	-42.5	22329
-47.5	17003	-47.5	17103
-55	9881	-55	9960
-65	2977	-65	3017
-75	1055	-75	1075
-85	162	-85	160
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 111696

Beam Edge = 55848 Cd (50% of Max.)

Field Edge = 11169.6 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	9	28	43	67	91	105	118	128	135
75.0	0	26	112	244	409	535	625	711	781	846
65.0	0	43	242	557	956	1289	1528	1765	1978	2155
55.0	0	67	403	951	1687	2390	2966	3905	4992	5983
47.5	0	89	530	1285	2388	3983	5760	7788	9463	11009
42.5	0	103	622	1521	2980	5788	8162	10602	12849 *	14784 *
37.5	0	116	706	1756	3946	7841	10637	13641 *	16363 *	18634 *
33.0	0	126	774	1976	5006	9523	12843 *	16297 *	19360 *	22111 *
29.0	0	134	838	2161	5943	11016	14745 *	18536 *	22064 *	24842 *
25.5	0	140	888	2321	6778	12234 *	16291 *	20426 *	24035 *	26920 *
22.5	0	145	927	2448	7417	13259 *	17517 *	21988 *	25569 *	28865 *
19.5	0	149	961	2578	8000	14186 *	18653 *	23250 *	26988 *	30735 *
17.0	0	152	985	2674	8438	14875 *	19508 *	24146 *	28177 *	32186 *
15.0	0	154	1001	2742	8747	15346 *	20141 *	24788 *	29043 *	33264 *
13.0	0	156	1015	2801	9020	15761 *	20682 *	25386 *	29796 *	34310 *
11.0	0	162	1028	2853	9256	16119 *	21139 *	25905 *	30469 *	35218 *
9.0	0	162	1037	2895	9453	16417 *	21524 *	26340 *	31062 *	35980 *
7.0	0	162	1045	2928	9613	16656 *	21835 *	26690 *	31555 *	36700 *
5.0	0	162	1057	2953	9739	16833 *	22068 *	26951 *	31927 *	37329 *
3.0	0	162	1056	2979	9871	17019 *	22299 *	27127 *	32183 *	37764 *
1.0	0	162	1055	2978	9877	17008 *	22266 *	27231 *	32372 *	38077 *
0.0	0	162	1055	2977	9881	17003 *	22250 *	27232 *	32419 *	38158 *
-1.0	0	162	1055	2978	9877	17008 *	22266 *	27231 *	32372 *	38077 *
-3.0	0	162	1056	2979	9871	17019 *	22299 *	27127 *	32183 *	37764 *
-5.0	0	162	1057	2953	9739	16833 *	22068 *	26951 *	31927 *	37329 *
-7.0	0	162	1045	2928	9613	16656 *	21835 *	26690 *	31555 *	36700 *
-9.0	0	162	1037	2895	9453	16417 *	21524 *	26340 *	31062 *	35980 *
-11.0	0	162	1028	2853	9256	16119 *	21139 *	25905 *	30469 *	35218 *
-13.0	0	156	1015	2801	9020	15761 *	20682 *	25386 *	29796 *	34310 *
-15.0	0	154	1001	2742	8747	15346 *	20141 *	24788 *	29043 *	33264 *
-17.0	0	152	985	2674	8438	14875 *	19508 *	24146 *	28177 *	32186 *
-19.5	0	149	961	2578	8000	14186 *	18653 *	23250 *	26988 *	30735 *
-22.5	0	145	927	2448	7417	13259 *	17517 *	21988 *	25569 *	28865 *
-25.5	0	140	888	2321	6778	12234 *	16291 *	20426 *	24035 *	26920 *
-29.0	0	134	838	2161	5943	11016	14745 *	18536 *	22064 *	24842 *
-33.0	0	126	774	1976	5006	9523	12843 *	16297 *	19360 *	22111 *
-37.5	0	116	706	1756	3946	7841	10637	13641 *	16363 *	18634 *
-42.5	0	103	622	1521	2980	5788	8162	10602	12849 *	14784 *
-47.5	0	89	530	1285	2388	3983	5760	7788	9463	11009
-55.0	0	67	403	951	1687	2390	2966	3905	4992	5983
-65.0	0	43	242	557	956	1289	1528	1765	1978	2155
-75.0	0	26	112	244	409	535	625	711	781	846
-85.0	0	9	28	43	67	91	105	118	128	135
-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	140	146	151	155	157	159	165	165	165	165
75.0	897	935	969	993	1010	1025	1037	1047	1054	1066
65.0	2308	2438	2580	2683	2756	2821	2875	2921	2959	2988
55.0	6836	7494	8075	8507	8816	9089	9325	9522	9678	9795
47.5	12267 *	13280 *	14186 *	14859 *	15352 *	15792 *	16178 *	16506 *	16771 *	16973 *
42.5	16321 *	17551 *	18663 *	19467 *	20111 *	20695 *	21205 *	21619 *	21947 *	22199 *
37.5	20530 *	22027 *	23288 *	24214 *	24882 *	25470 *	25983 *	26417 *	26781 *	27056 *
33.0	24093 *	25659 *	27095 *	28250 *	29100 *	29860 *	30567 *	31182 *	31690 *	32083 *
29.0	26965 *	28870 *	30714 *	32183 *	33289 *	34452 *	35428 *	36218 *	36938 *	37609 *
25.5	29570 *	31817 *	34132 *	36096 *	37763 *	39380 *	40807 *	42376 *	43729 *	44772 *
22.5	31859 *	34505 *	37380 *	40046 *	42532 *	45082 *	47472 *	50123 *	52220 *	53806 *
19.5	34163 *	37399 *	41106 *	45114 *	48811 *	52795 *	56498 *	60128 *	62942 *	65077 *
17.0	36024 *	40004 *	45163 *	50562 *	55328 *	60465 *	65141 *	69060 *	72350 *	75070 *
15.0	37602 *	42377 *	48834 *	55373 *	61197 *	66784 *	71717 *	75993 *	79355 *	82167 *
13.0	39120 *	44801 *	52707 *	60504 *	66808 *	72698 *	77904 *	82352 *	85945 *	88622 *
11.0	40410 *	47001 *	56280 *	65155 *	71751 *	77892 *	83357 *	87957 *	91677 *	94390 *
9.0	41866 *	49498 *	59878 *	69093 *	76049 *	82262 *	87851 *	92883 *	96487 *	99351 *
7.0	43098 *	51547 *	62867 *	72364 *	79418 *	85918 *	91530 *	96353 *	100576 *	103244 *
5.0	44164 *	53228 *	65202 *	74892 *	82133 *	88666 *	94409 *	99306 *	103241 *	106452 *
3.0	44919 *	54405 *	66706 *	76655 *	84050 *	90647 *	96499 *	101421 *	105565 *	108362 *
1.0	45349 *	55175 *	67548 *	77528 *	85084 *	91428 *	97312 *	102406 *	106580 *	109812 *
0.0	45436 *	55279 *	67754 *	77600 *	84927 *	91363 *	97133 *	102277 *	106611 *	109732 *
-1.0	45349 *	55175 *	67548 *	77528 *	85084 *	91428 *	97312 *	102406 *	106580 *	109812 *
-3.0	44919 *	54405 *	66706 *	76655 *	84050 *	90647 *	96499 *	101421 *	105565 *	108362 *
-5.0	44164 *	53228 *	65202 *	74892 *	82133 *	88666 *	94409 *	99306 *	103241 *	106452 *
-7.0	43098 *	51547 *	62867 *	72364 *	79418 *	85918 *	91530 *	96353 *	100576 *	103244 *
-9.0	41866 *	49498 *	59878 *	69093 *	76049 *	82262 *	87851 *	92883 *	96487 *	99351 *
-11.0	40410 *	47001 *	56280 *	65155 *	71751 *	77892 *	83357 *	87957 *	91677 *	94390 *
-13.0	39120 *	44801 *	52707 *	60504 *	66808 *	72698 *	77904 *	82352 *	85945 *	88622 *
-15.0	37602 *	42377 *	48834 *	55373 *	61197 *	66784 *	71717 *	75993 *	79355 *	82167 *
-17.0	36024 *	40004 *	45163 *	50562 *	55328 *	60465 *	65141 *	69060 *	72350 *	75070 *
-19.5	34163 *	37399 *	41106 *	45114 *	48811 *	52795 *	56498 *	60128 *	62942 *	65077 *
-22.5	31859 *	34505 *	37380 *	40046 *	42532 *	45082 *	47472 *	50123 *	52220 *	53806 *
-25.5	29570 *	31817 *	34132 *	36096 *	37763 *	39380 *	40807 *	42376 *	43729 *	44772 *
-29.0	26965 *	28870 *	30714 *	32183 *	33289 *	34452 *	35428 *	36218 *	36938 *	37609 *
-33.0	24093 *	25659 *	27095 *	28250 *	29100 *	29860 *	30567 *	31182 *	31690 *	32083 *
-37.5	20530 *	22027 *	23288 *	24214 *	24882 *	25470 *	25983 *	26417 *	26781 *	27056 *
-42.5	16321 *	17551 *	18663 *	19467 *	20111 *	20695 *	21205 *	21619 *	21947 *	22199 *
-47.5	12267 *	13280 *	14186 *	14859 *	15352 *	15792 *	16178 *	16506 *	16771 *	16973 *
-55.0	6836	7494	8075	8507	8816	9089	9325	9522	9678	9795
-65.0	2308	2438	2580	2683	2756	2821	2875	2921	2959	2988
-75.0	897	935	969	993	1010	1025	1037	1047	1054	1066
-85.0	140	146	151	155	157	159	165	165	165	165
-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	163	161	160	161	163	165	165	165	165	159
75.0	1069	1073	1075	1073	1069	1066	1054	1047	1037	1025
65.0	3016	3017	3017	3017	3016	2988	2959	2921	2875	2821

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CANDELA TABULATION - (Cont.)

55.0	9931	9950	9960	9950	9931	9795	9678	9522	9325	9089
47.5	17167 *	17124 *	17103 *	17124 *	17167 *	16973 *	16771 *	16506 *	16178 *	15792 *
42.5	22450 *	22369 *	22329 *	22369 *	22450 *	22199 *	21947 *	21619 *	21205 *	20695 *
37.5	27240 *	27246 *	27198 *	27246 *	27240 *	27056 *	26781 *	26417 *	25983 *	25470 *
33.0	32353 *	32466 *	32472 *	32466 *	32353 *	32083 *	31690 *	31182 *	30567 *	29860 *
29.0	38059 *	38269 *	38288 *	38269 *	38059 *	37609 *	36938 *	36218 *	35428 *	34452 *
25.5	45472 *	45993 *	46186 *	45993 *	45472 *	44772 *	43729 *	42376 *	40807 *	39380 *
22.5	54856 *	55700 *	55973 *	55700 *	54856 *	53806 *	52220 *	50123 *	47472 *	45082 *
19.5	66822 *	67746 *	67900 *	67746 *	66822 *	65077 *	62942 *	60128 *	56498 *	52795 *
17.0	76772 *	77570 *	77705 *	77570 *	76772 *	75070 *	72350 *	69060 *	65141 *	60465 *
15.0	84107 *	85179 *	85057 *	85179 *	84107 *	82167 *	79355 *	75993 *	71717 *	66784 *
13.0	90649 *	91735 *	91610 *	91735 *	90649 *	88622 *	85945 *	82352 *	77904 *	72698 *
11.0	96424 *	97498 *	97338 *	97498 *	96424 *	94390 *	91677 *	87957 *	83357 *	77892 *
9.0	101348 *	102344 *	102228 *	102344 *	101348 *	99351 *	96487 *	92883 *	87851 *	82262 *
7.0	105274 *	106333 *	106269 *	106333 *	105274 *	103244 *	100576 *	96353 *	91530 *	85918 *
5.0	108253 *	109563 *	109455 *	109563 *	108253 *	106452 *	103241 *	99306 *	94409 *	88666 *
3.0	110285 *	111124 *	111289 *	111124 *	110285 *	108362 *	105565 *	101421 *	96499 *	90647 *
1.0	111215 *	111682 *	111696 *	111682 *	111215 *	109812 *	106580 *	102406 *	97312 *	91428 *
0.0	111294 *	111671 *	111661 *	111671 *	111294 *	109732 *	106611 *	102277 *	97133 *	91363 *
-1.0	111215 *	111682 *	111696 *	111682 *	111215 *	109812 *	106580 *	102406 *	97312 *	91428 *
-3.0	110285 *	111124 *	111289 *	111124 *	110285 *	108362 *	105565 *	101421 *	96499 *	90647 *
-5.0	108253 *	109563 *	109455 *	109563 *	108253 *	106452 *	103241 *	99306 *	94409 *	88666 *
-7.0	105274 *	106333 *	106269 *	106333 *	105274 *	103244 *	100576 *	96353 *	91530 *	85918 *
-9.0	101348 *	102344 *	102228 *	102344 *	101348 *	99351 *	96487 *	92883 *	87851 *	82262 *
-11.0	96424 *	97498 *	97338 *	97498 *	96424 *	94390 *	91677 *	87957 *	83357 *	77892 *
-13.0	90649 *	91735 *	91610 *	91735 *	90649 *	88622 *	85945 *	82352 *	77904 *	72698 *
-15.0	84107 *	85179 *	85057 *	85179 *	84107 *	82167 *	79355 *	75993 *	71717 *	66784 *
-17.0	76772 *	77570 *	77705 *	77570 *	76772 *	75070 *	72350 *	69060 *	65141 *	60465 *
-19.5	66822 *	67746 *	67900 *	67746 *	66822 *	65077 *	62942 *	60128 *	56498 *	52795 *
-22.5	54856 *	55700 *	55973 *	55700 *	54856 *	53806 *	52220 *	50123 *	47472 *	45082 *
-25.5	45472 *	45993 *	46186 *	45993 *	45472 *	44772 *	43729 *	42376 *	40807 *	39380 *
-29.0	38059 *	38269 *	38288 *	38269 *	38059 *	37609 *	36938 *	36218 *	35428 *	34452 *
-33.0	32353 *	32466 *	32472 *	32466 *	32353 *	32083 *	31690 *	31182 *	30567 *	29860 *
-37.5	27240 *	27246 *	27198 *	27246 *	27240 *	27056 *	26781 *	26417 *	25983 *	25470 *
-42.5	22450 *	22369 *	22329 *	22369 *	22450 *	22199 *	21947 *	21619 *	21205 *	20695 *
-47.5	17167 *	17124 *	17103 *	17124 *	17167 *	16973 *	16771 *	16506 *	16178 *	15792 *
-55.0	9931	9950	9960	9950	9931	9795	9678	9522	9325	9089
-65.0	3016	3017	3017	3017	3016	2988	2959	2921	2875	2821
-75.0	1069	1073	1075	1073	1069	1066	1054	1047	1037	1025
-85.0	163	161	160	161	163	165	165	165	165	159
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	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	157	155	151	146	140	135	128	118	105	91
75.0	1010	993	969	935	897	846	781	711	625	535
65.0	2756	2683	2580	2438	2308	2155	1978	1765	1528	1289
55.0	8816	8507	8075	7494	6836	5983	4992	3905	2966	2390
47.5	15352 *	14859 *	14186 *	13280 *	12267 *	11009	9463	7788	5760	3983
42.5	20111 *	19467 *	18663 *	17551 *	16321 *	14784 *	12849 *	10602	8162	5788
37.5	24882 *	24214 *	23288 *	22027 *	20530 *	18634 *	16363 *	13641 *	10637	7841
33.0	29100 *	28250 *	27095 *	25659 *	24093 *	22111 *	19360 *	16297 *	12843 *	9523
29.0	33289 *	32183 *	30714 *	28870 *	26965 *	24842 *	22064 *	18536 *	14745 *	11016
25.5	37763 *	36096 *	34132 *	31817 *	29570 *	26920 *	24035 *	20426 *	16291 *	12234 *

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CANDELA TABULATION - (Cont.)

22.5	42532 *	40046 *	37380 *	34505 *	31859 *	28865 *	25569 *	21988 *	17517 *	13259 *
19.5	48811 *	45114 *	41106 *	37399 *	34163 *	30735 *	26988 *	23250 *	18653 *	14186 *
17.0	55328 *	50562 *	45163 *	40004 *	36024 *	32186 *	28177 *	24146 *	19508 *	14875 *
15.0	61197 *	55373 *	48834 *	42377 *	37602 *	33264 *	29043 *	24788 *	20141 *	15346 *
13.0	66808 *	60504 *	52707 *	44801 *	39120 *	34310 *	29796 *	25386 *	20682 *	15761 *
11.0	71751 *	65155 *	56280 *	47001 *	40410 *	35218 *	30469 *	25905 *	21139 *	16119 *
9.0	76049 *	69093 *	59878 *	49498 *	41866 *	35980 *	31062 *	26340 *	21524 *	16417 *
7.0	79418 *	72364 *	62867 *	51547 *	43098 *	36700 *	31555 *	26690 *	21835 *	16656 *
5.0	82133 *	74892 *	65202 *	53228 *	44164 *	37329 *	31927 *	26951 *	22068 *	16833 *
3.0	84050 *	76655 *	66706 *	54405 *	44919 *	37764 *	32183 *	27127 *	22299 *	17019 *
1.0	85084 *	77528 *	67548 *	55175 *	45349 *	38077 *	32372 *	27231 *	22266 *	17008 *
0.0	84927 *	77600 *	67754 *	55279 *	45436 *	38158 *	32419 *	27232 *	22250 *	17003 *
-1.0	85084 *	77528 *	67548 *	55175 *	45349 *	38077 *	32372 *	27231 *	22266 *	17008 *
-3.0	84050 *	76655 *	66706 *	54405 *	44919 *	37764 *	32183 *	27127 *	22299 *	17019 *
-5.0	82133 *	74892 *	65202 *	53228 *	44164 *	37329 *	31927 *	26951 *	22068 *	16833 *
-7.0	79418 *	72364 *	62867 *	51547 *	43098 *	36700 *	31555 *	26690 *	21835 *	16656 *
-9.0	76049 *	69093 *	59878 *	49498 *	41866 *	35980 *	31062 *	26340 *	21524 *	16417 *
-11.0	71751 *	65155 *	56280 *	47001 *	40410 *	35218 *	30469 *	25905 *	21139 *	16119 *
-13.0	66808 *	60504 *	52707 *	44801 *	39120 *	34310 *	29796 *	25386 *	20682 *	15761 *
-15.0	61197 *	55373 *	48834 *	42377 *	37602 *	33264 *	29043 *	24788 *	20141 *	15346 *
-17.0	55328 *	50562 *	45163 *	40004 *	36024 *	32186 *	28177 *	24146 *	19508 *	14875 *
-19.5	48811 *	45114 *	41106 *	37399 *	34163 *	30735 *	26988 *	23250 *	18653 *	14186 *
-22.5	42532 *	40046 *	37380 *	34505 *	31859 *	28865 *	25569 *	21988 *	17517 *	13259 *
-25.5	37763 *	36096 *	34132 *	31817 *	29570 *	26920 *	24035 *	20426 *	16291 *	12234 *
-29.0	33289 *	32183 *	30714 *	28870 *	26965 *	24842 *	22064 *	18536 *	14745 *	11016
-33.0	29100 *	28250 *	27095 *	25659 *	24093 *	22111 *	19360 *	16297 *	12843 *	9523
-37.5	24882 *	24214 *	23288 *	22027 *	20530 *	18634 *	16363 *	13641 *	10637	7841
-42.5	20111 *	19467 *	18663 *	17551 *	16321 *	14784 *	12849 *	10602	8162	5788
-47.5	15352 *	14859 *	14186 *	13280 *	12267 *	11009	9463	7788	5760	3983
-55.0	8816	8507	8075	7494	6836	5983	4992	3905	2966	2390
-65.0	2756	2683	2580	2438	2308	2155	1978	1765	1528	1289
-75.0	1010	993	969	935	897	846	781	711	625	535
-85.0	157	155	151	146	140	135	128	118	105	91
-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	67	43	28	9	0
75.0	409	244	112	26	0
65.0	956	557	242	43	0
55.0	1687	951	403	67	0
47.5	2388	1285	530	89	0
42.5	2980	1521	622	103	0
37.5	3946	1756	706	116	0
33.0	5006	1976	774	126	0
29.0	5943	2161	838	134	0
25.5	6778	2321	888	140	0
22.5	7417	2448	927	145	0
19.5	8000	2578	961	149	0
17.0	8438	2674	985	152	0
15.0	8747	2742	1001	154	0
13.0	9020	2801	1015	156	0
11.0	9256	2853	1028	162	0
9.0	9453	2895	1037	162	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	9613	2928	1045	162	0
5.0	9739	2953	1057	162	0
3.0	9871	2979	1056	162	0
1.0	9877	2978	1055	162	0
0.0	9881	2977	1055	162	0
-1.0	9877	2978	1055	162	0
-3.0	9871	2979	1056	162	0
-5.0	9739	2953	1057	162	0
-7.0	9613	2928	1045	162	0
-9.0	9453	2895	1037	162	0
-11.0	9256	2853	1028	162	0
-13.0	9020	2801	1015	156	0
-15.0	8747	2742	1001	154	0
-17.0	8438	2674	985	152	0
-19.5	8000	2578	961	149	0
-22.5	7417	2448	927	145	0
-25.5	6778	2321	888	140	0
-29.0	5943	2161	838	134	0
-33.0	5006	1976	774	126	0
-37.5	3946	1756	706	116	0
-42.5	2980	1521	622	103	0
-47.5	2388	1285	530	89	0
-55.0	1687	951	403	67	0
-65.0	956	557	242	43	0
-75.0	409	244	112	26	0
-85.0	67	43	28	9	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) = 51780.32

Total Field Lumens (one side of beam only) = 46979.98

* 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	0.12	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.23	0.23
75	1.88	3.75	3.74	3.71	3.67	3.62	3.55	3.47	3.39	4.10
65	6.23	12.44	12.37	12.22	12.04	11.82	11.56	11.25	10.90	13.06
55	19.76	39.44	39.09	38.50	37.83	36.96	35.92	34.70	33.32	39.49
47.5	30.92 *	61.84 *	61.38 *	60.45 *	59.36 *	57.97 *	56.29 *	54.36 *	52.19 *	61.87 *
42.5	30.05 *	60.21 *	59.85 *	58.99 *	57.95 *	56.63 *	55.02 *	53.16 *	51.09 *	60.72 *
37.5	37.75 *	75.58 *	75.16 *	74.21 *	72.97 *	71.41 *	69.54 *	67.36 *	64.91 *	77.41 *
33	40.91 *	81.72 *	81.18 *	80.16 *	78.77 *	77.04 *	75.00 *	72.69 *	70.13 *	83.67 *
29	43.10 *	85.93 *	85.14 *	83.80 *	82.06 *	80.03 *	77.65 *	74.89 *	71.93 *	85.51 *
25.5	44.97 *	89.39 *	88.22 *	86.44 *	84.07 *	81.28 *	78.25 *	74.94 *	71.39 *	84.24 *
22.5	46.57 *	92.25 *	90.66 *	88.39 *	85.26 *	81.34 *	77.20 *	73.04 *	68.71 *	80.09 *
19.5	56.50 *	111.93 *	109.65 *	106.35 *	101.99 *	96.39 *	90.21 *	83.89 *	77.52 *	88.76 *
17	55.38 *	109.94 *	107.77 *	104.30 *	99.72 *	94.05 *	87.48 *	80.32 *	73.13 *	82.24 *
15	49.58 *	98.52 *	96.66 *	93.59 *	89.51 *	84.57 *	78.69 *	72.05 *	65.14 *	72.29 *
13	53.85 *	107.05 *	105.00 *	101.81 *	97.62 *	92.38 *	86.14 *	79.06 *	71.41 *	78.62 *
11	57.60 *	114.55 *	112.45 *	109.25 *	104.95 *	99.46 *	92.91 *	85.46 *	77.36 *	84.85 *
9	60.83 *	121.04 *	118.97 *	115.69 *	111.31 *	105.61 *	98.73 *	91.02 *	82.58 *	90.54 *
7	63.54 *	126.42 *	124.34 *	121.07 *	116.52 *	110.58 *	103.55 *	95.66 *	86.94 *	95.53 *
5	65.74 *	130.72 *	128.60 *	125.27 *	120.50 *	114.47 *	107.42 *	99.35 *	90.42 *	99.55 *
3	67.23 *	133.71 *	131.68 *	128.33 *	123.53 *	117.48 *	110.31 *	102.11 *	93.03 *	102.49 *
1	67.89 *	135.25 *	133.60 *	130.36 *	125.47 *	119.28 *	111.99 *	103.80 *	94.67 *	104.30 *
0	34.02 *	67.86 *	67.16 *	65.54 *	63.02 *	59.86 *	56.20 *	52.14 *	47.60 *	52.51 *
-1	34.02 *	67.86 *	67.16 *	65.54 *	63.02 *	59.86 *	56.20 *	52.14 *	47.60 *	52.51 *
-3	67.89 *	135.25 *	133.60 *	130.36 *	125.47 *	119.28 *	111.99 *	103.80 *	94.67 *	104.30 *
	67.23 *	133.71 *	131.68 *	128.33 *	123.53 *	117.48 *	110.31 *	102.11 *	93.03 *	102.49 *

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LUMENS TABULATION - (Cont.)

-5	65.74 *	130.72 *	128.60 *	125.27 *	120.50 *	114.47 *	107.42 *	99.35 *	90.42 *	99.55 *
-7	63.54 *	126.42 *	124.34 *	121.07 *	116.52 *	110.58 *	103.55 *	95.66 *	86.94 *	95.53 *
-9	60.83 *	121.04 *	118.97 *	115.69 *	111.31 *	105.61 *	98.73 *	91.02 *	82.58 *	90.54 *
-11	57.60 *	114.55 *	112.45 *	109.25 *	104.95 *	99.46 *	92.91 *	85.46 *	77.36 *	84.85 *
-13	53.85 *	107.05 *	105.00 *	101.81 *	97.62 *	92.38 *	86.14 *	79.06 *	71.41 *	78.62 *
-15	49.58 *	98.52 *	96.66 *	93.59 *	89.51 *	84.57 *	78.69 *	72.05 *	65.14 *	72.29 *
-17	55.38 *	109.94 *	107.77 *	104.30 *	99.72 *	94.05 *	87.48 *	80.32 *	73.13 *	82.24 *
-19.5	56.50 *	111.93 *	109.65 *	106.35 *	101.99 *	96.39 *	90.21 *	83.89 *	77.52 *	88.76 *
-22.5	46.57 *	92.25 *	90.66 *	88.39 *	85.26 *	81.34 *	77.20 *	73.04 *	68.71 *	80.09 *
-25.5	44.97 *	89.39 *	88.22 *	86.44 *	84.07 *	81.28 *	78.25 *	74.94 *	71.39 *	84.24 *
-29	43.10 *	85.93 *	85.14 *	83.80 *	82.06 *	80.03 *	77.65 *	74.89 *	71.93 *	85.51 *
-33	40.91 *	81.72 *	81.18 *	80.16 *	78.77 *	77.04 *	75.00 *	72.69 *	70.13 *	83.67 *
-37.5	37.75 *	75.58 *	75.16 *	74.21 *	72.97 *	71.41 *	69.54 *	67.36 *	64.91 *	77.41 *
-42.5	30.05 *	60.21 *	59.85 *	58.99 *	57.95 *	56.63 *	55.02 *	53.16 *	51.09 *	60.72 *
-47.5	30.92 *	61.84 *	61.38 *	60.45 *	59.36 *	57.97 *	56.29 *	54.36 *	52.19 *	61.87 *
-55	19.76	39.44	39.09	38.50	37.83	36.96	35.92	34.70	33.32	39.49
-65	6.23	12.44	12.37	12.22	12.04	11.82	11.56	11.25	10.90	13.06
-75	1.88	3.75	3.74	3.71	3.67	3.62	3.55	3.47	3.39	4.10
-85	0.12	0.25	0.25	0.25	0.25	0.25	0.24	0.23	0.23	0.28
-90	0.12	0.25	0.25	0.25	0.25	0.25	0.24	0.23	0.23	0.28
Total	1868.83	3719.6	3665.85	3577.37	3456.74	3304.96	3127.7	2929.88	2715.97	3084.25

Vert. Horizontal Angles

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
90	0.32	0.30	0.33	0.34	0.34	0.33	0.26	0.28	0.21	0.09
85	4.69	4.42	4.78	4.93	4.86	4.55	3.65	3.94	2.90	1.11
75	14.76	13.73	14.70	15.04	14.65	13.50	10.70	11.39	8.24	3.00
65	43.90	39.81	40.94	39.44	35.37	29.64	22.00	22.59	15.79	5.60
55	68.83	62.41	64.14	61.57	54.87	44.66	30.48	27.99	18.00	6.18
47.5	67.90 *	62.00 *	64.42 *	62.79 *	56.94	47.11	31.89	27.04	15.54	5.15

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

42.5	86.94 *	79.75 *	83.24 *	81.75 *	74.78 *	62.75	43.64	36.72	19.40	5.99
37.5	94.12 *	86.69 *	91.02 *	89.83 *	82.67 *	70.09 *	49.47	42.31	21.71	6.10
33	95.83 *	88.14 *	92.88 *	92.29 *	85.34 *	72.81 *	51.82 *	45.00	22.95	5.98
29	93.70 *	85.62 *	89.80 *	89.41 *	83.30 *	71.44 *	51.14 *	44.98	22.90	5.65
25.5	88.19 *	79.98 *	83.31 *	82.54 *	77.24 *	66.68 *	47.88 *	42.54	21.64	5.14
22.5	96.22 *	86.35 *	89.29 *	87.84 *	82.09 *	71.21 *	51.37 *	45.94	23.32	5.40
19.5	87.26 *	77.00 *	78.84 *	77.07 *	71.74 *	62.37 *	45.23 *	40.64 *	20.62	4.68
17	75.23 *	65.11 *	65.90 *	64.05 *	59.40 *	51.66 *	37.61 *	33.87 *	17.19	3.85
15	80.49 *	68.41 *	68.37 *	66.00 *	61.00 *	53.07 *	38.72 *	34.92 *	17.73	3.93
13	85.64 *	71.51 *	70.63 *	67.77 *	62.42 *	54.30 *	39.67 *	35.84 *	18.20	4.00
11	90.70 *	74.62 *	72.72 *	69.30 *	63.67 *	55.35 *	40.48 *	36.61 *	18.60	4.06
9	95.45 *	77.64 *	74.70 *	70.64 *	64.71 *	56.21 *	41.15 *	37.25 *	18.93	4.11
7	99.31 *	80.15 *	76.43 *	71.80 *	65.54 *	56.89 *	41.66 *	37.75 *	19.19	4.15
5	102.17 *	82.10 *	77.79 *	72.68 *	66.13 *	57.41 *	42.11 *	38.20 *	19.43	4.19
3	104.00 *	83.41 *	78.71 *	73.30 *	66.54 *	57.69 *	42.31 *	38.42 *	19.55	4.20
1	52.41 *	42.00 *	39.57 *	36.82 *	33.37 *	28.86 *	21.14 *	19.21 *	9.78	2.10
0	52.41 *	42.00 *	39.57 *	36.82 *	33.37 *	28.86 *	21.14 *	19.21 *	9.78	2.10
-1	104.00 *	83.41 *	78.71 *	73.30 *	66.54 *	57.69 *	42.31 *	38.42 *	19.55	4.20
-3	102.17 *	82.10 *	77.79 *	72.68 *	66.13 *	57.41 *	42.11 *	38.20 *	19.43	4.19
-5	99.31 *	80.15 *	76.43 *	71.80 *	65.54 *	56.89 *	41.66 *	37.75 *	19.19	4.15
-7	95.45 *	77.64 *	74.70 *	70.64 *	64.71 *	56.21 *	41.15 *	37.25 *	18.93	4.11
-9	90.70 *	74.62 *	72.72 *	69.30 *	63.67 *	55.35 *	40.48 *	36.61 *	18.60	4.06
-11	85.64 *	71.51 *	70.63 *	67.77 *	62.42 *	54.30 *	39.67 *	35.84 *	18.20	4.00
-13	80.49 *	68.41 *	68.37 *	66.00 *	61.00 *	53.07 *	38.72 *	34.92 *	17.73	3.93
-15	75.23 *	65.11 *	65.90 *	64.05 *	59.40 *	51.66 *	37.61 *	33.87 *	17.19	3.85
-17	87.26 *	77.00 *	78.84 *	77.07 *	71.74 *	62.37 *	45.23 *	40.64 *	20.62	4.68
-19.5	96.22 *	86.35 *	89.29 *	87.84 *	82.09 *	71.21 *	51.37 *	45.94	23.32	5.40
-22.5	88.19 *	79.98 *	83.31 *	82.54 *	77.24 *	66.68 *	47.88 *	42.54	21.64	5.14

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-25.5	93.70 *	85.62 *	89.80 *	89.41 *	83.30 *	71.44 *	51.14 *	44.98	22.90	5.65
-29	95.83 *	88.14 *	92.88 *	92.29 *	85.34 *	72.81 *	51.82 *	45.00	22.95	5.98
-33	94.12 *	86.69 *	91.02 *	89.83 *	82.67 *	70.09 *	49.47	42.31	21.71	6.10
-37.5	86.94 *	79.75 *	83.24 *	81.75 *	74.78 *	62.75	43.64	36.72	19.40	5.99
-42.5	67.90 *	62.00 *	64.42 *	62.79 *	56.94	47.11	31.89	27.04	15.54	5.15
-47.5	68.83	62.41	64.14	61.57	54.87	44.66	30.48	27.99	18.00	6.18
-55	43.90	39.81	40.94	39.44	35.37	29.64	22.00	22.59	15.79	5.60
-65	14.76	13.73	14.70	15.04	14.65	13.50	10.70	11.39	8.24	3.00
-75	4.69	4.42	4.78	4.93	4.86	4.55	3.65	3.94	2.90	1.11
-85	0.32	0.30	0.33	0.34	0.34	0.33	0.26	0.28	0.21	0.09
-90										
Total	3256.18	2822.28	2845.05	2754.37	2533.92	2177.15	1568.77	1406.82	743.61	189.36

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.02	0.00		5.17
85				
	0.23	0.01		74.97
75				
	0.56	0.01		234.16
65				
	1.00	0.02		651.10
55				
	1.08	0.02		996.87
47.5				
	0.89	0.02		985.35
42.5				
	1.02	0.02		1262.28
37.5				
	1.02	0.02		1376.32
33				
	0.99	0.02		1424.09
29				
	0.92	0.02		1422.07
25.5				
	0.83	0.01		1379.48
22.5				
	0.86	0.01		1563.08
19.5				
	0.74	0.01		1460.54
17				
	0.61	0.01		1275.09
15				
	0.61	0.01		1366.21

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

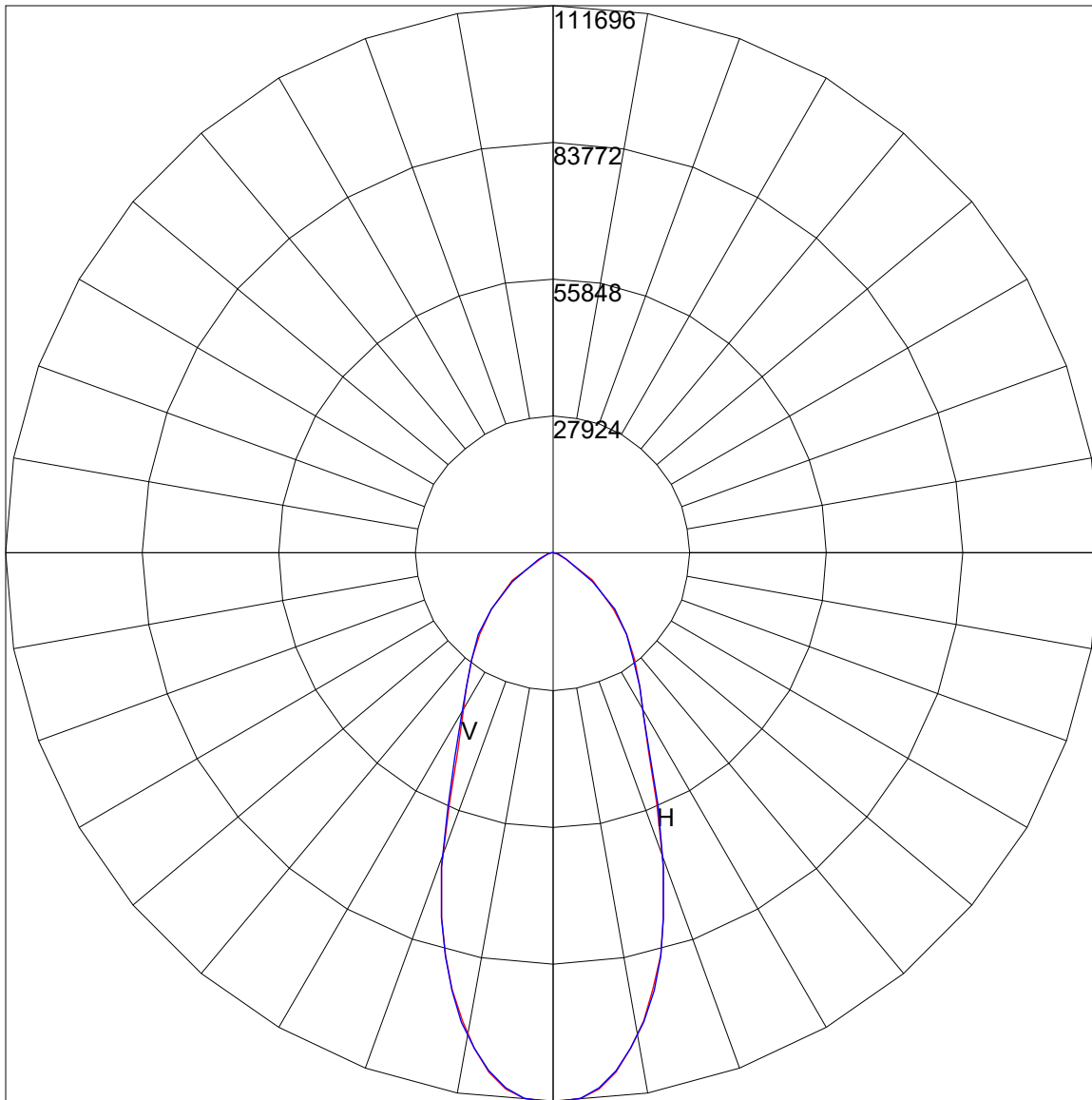
13			
	0.62	0.01	1449.47
11			
	0.63	0.01	1523.07
9			
	0.64	0.01	1585.59
7			
	0.64	0.01	1635.56
5			
	0.64	0.01	1672.77
3			
	0.64	0.01	1695.41
1			
	0.32	0.01	851.49
0			
	0.32	0.01	851.49
-1			
	0.64	0.01	1695.41
-3			
	0.64	0.01	1672.77
-5			
	0.64	0.01	1635.56
-7			
	0.64	0.01	1585.59
-9			
	0.63	0.01	1523.07
-11			
	0.62	0.01	1449.47
-13			
	0.61	0.01	1366.21
-15			
	0.61	0.01	1275.09
-17			
	0.74	0.01	1460.54
-19.5			
	0.86	0.01	1563.08
-22.5			
	0.83	0.01	1379.48
-25.5			
	0.92	0.02	1422.07
-29			
	0.99	0.02	1424.09
-33			
	1.02	0.02	1376.32
-37.5			
	1.02	0.02	1262.28
-42.5			
	0.89	0.02	985.35
-47.5			
	1.08	0.02	996.87
-55			
	1.00	0.02	651.10
-65			
	0.56	0.01	234.16
-75			
	0.23	0.01	74.97

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

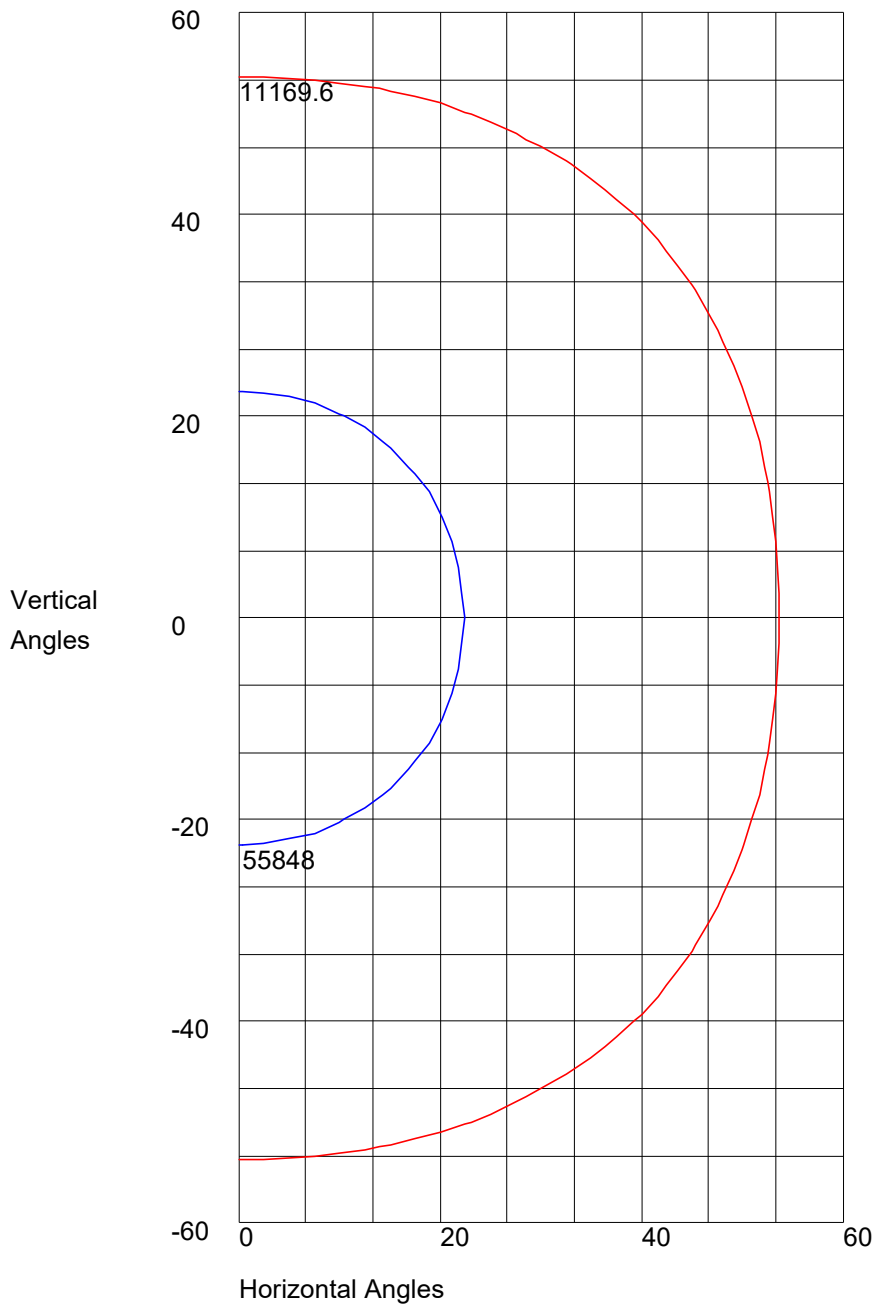
-85	0.02	0.00	5.17
-90			
Total	31.07	0.55	51780.28

AXIAL CANDELA DISPLAY



Maximum Candela = 111696 Located At Horizontal Angle = 0, Vertical Angle = -1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 111696 Located At Horizontal Angle = 0, Vertical Angle = -1
50% Maximum Candela = 55848
10% Maximum Candela = 11169.6