



IES FLOOD REPORT

PHOTOMETRIC FILENAME : ZNF-70L-WF-40-GS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13806
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 12/22/22
[TESTDATE] 12/12/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] ZNF-70L-WF-40-GS
[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	72472
Maximum Candela Angle	0H 3V
Horizontal Beam Angle (50%)	44.4
Vertical Beam Angle (50%)	43.6
Horizontal Field Angle (10%)	105.5
Vertical Field Angle (10%)	101.6
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	24973
Beam Efficiency	N.A.
Field Lumens	57144
Field Efficiency	N.A.
Spill Lumens	6069
Luminaire Lumens	63214
Total Efficiency	N.A.
Total Luminaire Watts	463
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	69	85	0
75	559	75	3
65	1694	65	896
55	5889	55	3632
47.5	10521	47.5	7868
42.5	13842	42.5	11304
37.5	17100	37.5	14880
33	20569	33	18710
29	24357	29	22994
25.5	29184	25.5	28538
22.5	35716	22.5	36072
19.5	43656	19.5	44931
17	50517	17	51946
15	55431	15	57455
13	59666	13	61232
11	63349	11	64643
9	66475	9	67612
7	69034	7	70031
5	71008	5	71764
3	72063	3	72472
1	72295	1	72424
0	72274	0	72274
-1	72295	-1	72222
-3	72063	-3	71838
-5	71008	-5	70619
-7	69034	-7	68317
-9	66475	-9	65439
-11	63349	-11	62024
-13	59666	-13	58042
-15	55431	-15	53392
-17	50517	-17	48072
-19.5	43656	-19.5	41092
-22.5	35716	-22.5	32178
-25.5	29184	-25.5	27012
-29	24357	-29	23112
-33	20569	-33	19888
-37.5	17100	-37.5	16800
-42.5	13842	-42.5	13785
-47.5	10521	-47.5	10577
-55	5889	-55	6034
-65	1694	-65	1837
-75	559	-75	677
-85	69	-85	124
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 72472

Beam Edge = 36236 Cd (50% of Max.)

Field Edge = 7247.2 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>-90.0</u>	<u>-85.0</u>	<u>-75.0</u>	<u>-65.0</u>	<u>-55.0</u>	<u>-47.5</u>	<u>-42.5</u>	<u>-37.5</u>	<u>-33.0</u>	<u>-29.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	3	8	11	13	15	14	11	9	6
75.0	0	9	35	79	118	138	150	150	144	140
65.0	0	15	86	190	317	416	484	548	611	665
55.0	0	24	158	369	653	919	1116	1470	1876	2228
47.5	0	34	219	547	1042	1715	2526	3475	4254	4975
42.5	0	40	268	682	1369	2705	3867	5118	6270	7292 *
37.5	0	46	315	827	1897	3901	5381	7055	8567 *	9855 *
33.0	0	50	355	962	2546	4979	6850	8924 *	10704 *	12111 *
29.0	0	54	394	1081	3133	5961	8133 *	10525 *	12462 *	14290 *
25.5	0	57	425	1187	3661	6764	9247 *	11834 *	14019 *	15896 *
22.5	0	59	450	1275	4078	7466 *	10126 *	12937 *	15209 *	17307 *
19.5	0	61	473	1366	4451	8106 *	10916 *	13878 *	16271 *	18680 *
17.0	0	63	490	1435	4747	8600 *	11484 *	14548 *	17151 *	19802 *
15.0	0	64	502	1486	4965	8969 *	11923 *	15050 *	17820 *	20626 *
13.0	0	65	514	1533	5164	9308 *	12343 *	15514 *	18431 *	21431 *
11.0	0	68	524	1576	5343	9613 *	12715 *	15908 *	18991 *	22168 *
9.0	0	68	533	1608	5502	9883 *	13030 *	16223 *	19448 *	22827 *
7.0	0	68	541	1636	5637	10116 *	13289 *	16483 *	19805 *	23390 *
5.0	0	68	551	1659	5742	10303 *	13492 *	16685 *	20088 *	23844 *
3.0	0	69	554	1682	5848	10473 *	13727 *	16864 *	20302 *	24141 *
1.0	0	69	557	1690	5875	10505 *	13804 *	17044 *	20502 *	24321 *
0.0	0	69	559	1694	5889	10521 *	13842 *	17100 *	20569 *	24357 *
-1.0	0	69	560	1698	5901	10518 *	13846 *	17120 *	20581 *	24341 *
-3.0	0	69	563	1706	5925	10511 *	13854 *	17090 *	20544 *	24198 *
-5.0	0	70	565	1697	5871	10375 *	13692 *	16985 *	20333 *	23847 *
-7.0	0	70	560	1689	5820	10277 *	13568 *	16812 *	20033 *	23371 *
-9.0	0	70	558	1676	5734	10148 *	13396 *	16591 *	19660 *	22822 *
-11.0	0	71	554	1656	5623	9979 *	13180 *	16327 *	19236 *	22228 *
-13.0	0	68	549	1630	5488	9768 *	12923 *	16003 *	18774 *	21572 *
-15.0	0	68	543	1599	5328	9517 *	12601 *	15617 *	18273 *	20864 *
-17.0	0	67	536	1562	5144	9227 *	12197 *	15197 *	17716 *	20162 *
-19.5	0	66	524	1510	4882	8821 *	11688 *	14625 *	16966 *	19228 *
-22.5	0	65	508	1436	4538	8282 *	11044 *	13812 *	16048 *	18059 *
-25.5	0	63	488	1365	4154	7678 *	10315 *	12739 *	15070 *	16864 *
-29.0	0	60	462	1273	3648	6928	9290 *	11546 *	13785 *	15493 *
-33.0	0	57	428	1163	3061	5955	8066 *	10188 *	11921 *	13660 *
-37.5	0	53	391	1034	2404	4874	6647	8493 *	10141 *	11460 *
-42.5	0	47	345	901	1834	3605	5111	6611	7967 *	9147 *
-47.5	0	41	293	767	1479	2452	3610	4868	5892	6827
-55.0	0	30	223	568	1050	1493	1856	2417	3074	3644
-65.0	0	19	135	326	593	808	955	1099	1234	1350
-75.0	0	12	64	148	259	346	407	459	502	540
-85.0	0	4	18	34	56	72	83	93	101	106
-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	3	2	1	1	0	0	0	0	0	0
75.0	132	122	110	98	87	76	64	52	38	25
65.0	716	747	780	805	824	841	853	862	868	870
55.0	2529	2731	2941	3139	3262	3354	3437	3511	3566	3602
47.5	5555	6063	6519	6842	7076	7279 *	7453 *	7617 *	7736 *	7809 *
42.5	8150 *	8836 *	9474 *	9945 *	10247 *	10501 *	10717 *	10894 *	11024 *	11103 *
37.5	10886 *	11634 *	12442 *	13039 *	13450 *	13786 *	14070 *	14302 *	14507 *	14664 *
33.0	13412 *	14426 *	15254 *	15965 *	16499 *	16997 *	17438 *	17804 *	18123 *	18385 *
29.0	15625 *	16828 *	18018 *	18932 *	19582 *	20270 *	20932 *	21502 *	22040 *	22526 *
25.5	17567 *	19093 *	20645 *	21948 *	23028 *	24054 *	24959 *	26148 *	27148 *	27883 *
22.5	19296 *	21172 *	23208 *	25050 *	26799 *	28502 *	30079 *	31999 *	33609 *	34850 *
19.5	21034 *	23338 *	26049 *	28997 *	31603 *	34431 *	37032 *	39596 *	41721 *	43356 *
17.0	22412 *	25245 *	28975 *	32983 *	36399 *	40008 *	43365 *	46086 *	48369 *	50182 *
15.0	23569 *	26966 *	31481 *	36276 *	40459 *	44417 *	47865 *	50870 *	53257 *	55071 *
13.0	24674 *	28822 *	34289 *	39629 *	44150 *	48328 *	51910 *	54959 *	57581 *	59271 *
11.0	25750 *	30621 *	36923 *	42780 *	47589 *	51867 *	55354 *	58367 *	60858 *	62769 *
9.0	27031 *	32462 *	39397 *	45526 *	50449 *	54704 *	58245 *	61210 *	63725 *	65714 *
7.0	28092 *	33928 *	41253 *	47566 *	52364 *	56845 *	60540 *	63602 *	66204 *	68006 *
5.0	28778 *	34935 *	42585 *	49062 *	53844 *	58213 *	62086 *	65323 *	67803 *	69643 *
3.0	29215 *	35517 *	43349 *	49924 *	54761 *	59078 *	62832 *	66130 *	68816 *	70641 *
1.0	29277 *	35782 *	43655 *	50338 *	55299 *	59595 *	63324 *	66449 *	69010 *	71102 *
0.0	29184 *	35716 *	43656 *	50517 *	55431 *	59666 *	63349 *	66475 *	69034 *	71008 *
-1.0	29164 *	35574 *	43390 *	50072 *	55053 *	59207 *	62879 *	66060 *	68701 *	70841 *
-3.0	28894 *	34899 *	42537 *	49096 *	53985 *	58272 *	62079 *	65375 *	67981 *	69834 *
-5.0	28286 *	33947 *	41224 *	47689 *	52572 *	56984 *	60885 *	63987 *	66406 *	68305 *
-7.0	27487 *	32655 *	39485 *	45830 *	50723 *	55043 *	58762 *	61792 *	64251 *	66233 *
-9.0	26492 *	31039 *	37258 *	43298 *	48014 *	52099 *	55854 *	59048 *	61586 *	63565 *
-11.0	25402 *	29186 *	34740 *	40329 *	44693 *	48791 *	52492 *	55718 *	58355 *	60205 *
-13.0	24458 *	27777 *	32449 *	37208 *	41125 *	44999 *	48531 *	51739 *	54335 *	55990 *
-15.0	23460 *	26254 *	30023 *	33825 *	37381 *	40821 *	44097 *	47107 *	49608 *	51220 *
-17.0	22449 *	24767 *	27796 *	30889 *	33438 *	36496 *	39422 *	42113 *	44411 *	45999 *
-19.5	21283 *	23233 *	25444 *	27558 *	29399 *	31402 *	33515 *	35845 *	37710 *	39145 *
-22.5	19904 *	21528 *	23179 *	24563 *	25751 *	26973 *	28087 *	29580 *	30774 *	31651 *
-25.5	18509 *	19886 *	21174 *	22191 *	23063 *	23891 *	24617 *	25452 *	26173 *	26712 *
-29.0	16861 *	18000 *	19055 *	19898 *	20524 *	21125 *	21679 *	22154 *	22584 *	22941 *
-33.0	14951 *	15925 *	16788 *	17476 *	17981 *	18451 *	18890 *	19270 *	19555 *	19750 *
-37.5	12629 *	13662 *	14436 *	14965 *	15343 *	15701 *	16010 *	16270 *	16497 *	16672 *
-42.5	10125 *	10886 *	11527 *	11979 *	12340 *	12675 *	12957 *	13210 *	13425 *	13590 *
-47.5	7580 *	8218 *	8808 *	9215 *	9493 *	9735 *	9942 *	10145 *	10309 *	10435 *
-55.0	4172	4593	4970	5238	5427	5593	5741	5868	5971	6049
-65.0	1446	1520	1595	1651	1691	1728	1761	1788	1810	1826
-75.0	570	592	612	626	636	644	652	659	664	672
-85.0	111	114	117	119	120	121	125	125	125	125
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	14	6	3	6	14	25	38	52	64	76
65.0	890	896	896	896	890	870	868	862	853	841

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CANDELA TABULATION - (Cont.)

55.0	3628	3619	3632	3619	3628	3602	3566	3511	3437	3354
47.5	7895 *	7876 *	7868 *	7876 *	7895 *	7809 *	7736 *	7617 *	7453 *	7279 *
42.5	11207 *	11262 *	11304 *	11262 *	11207 *	11103 *	11024 *	10894 *	10717 *	10501 *
37.5	14766 *	14830 *	14880 *	14830 *	14766 *	14664 *	14507 *	14302 *	14070 *	13786 *
33.0	18566 *	18601 *	18710 *	18601 *	18566 *	18385 *	18123 *	17804 *	17438 *	16997 *
29.0	22846 *	22860 *	22994 *	22860 *	22846 *	22526 *	22040 *	21502 *	20932 *	20270 *
25.5	28356 *	28324 *	28538 *	28324 *	28356 *	27883 *	27148 *	26148 *	24959 *	24054 *
22.5	35700 *	35854 *	36072 *	35854 *	35700 *	34850 *	33609 *	31999 *	30079 *	28502 *
19.5	44453 *	44721 *	44931 *	44721 *	44453 *	43356 *	41721 *	39596 *	37032 *	34431 *
17.0	51342 *	51735 *	51946 *	51735 *	51342 *	50182 *	48369 *	46086 *	43365 *	40008 *
15.0	56287 *	57015 *	57455 *	57015 *	56287 *	55071 *	53257 *	50870 *	47865 *	44417 *
13.0	60345 *	60781 *	61232 *	60781 *	60345 *	59271 *	57581 *	54959 *	51910 *	48328 *
11.0	63879 *	64237 *	64643 *	64237 *	63879 *	62769 *	60858 *	58367 *	55354 *	51867 *
9.0	66862 *	67257 *	67612 *	67257 *	66862 *	65714 *	63725 *	61210 *	58245 *	54704 *
7.0	69304 *	69748 *	70031 *	69748 *	69304 *	68006 *	66204 *	63602 *	60540 *	56845 *
5.0	70861 *	71612 *	71764 *	71612 *	70861 *	69643 *	67803 *	65323 *	62086 *	58213 *
3.0	71749 *	72267 *	72472 *	72267 *	71749 *	70641 *	68816 *	66130 *	62832 *	59078 *
1.0	72097 *	72384 *	72424 *	72384 *	72097 *	71102 *	69010 *	66449 *	63324 *	59595 *
0.0	72063 *	72295 *	72274 *	72295 *	72063 *	71008 *	69034 *	66475 *	63349 *	59666 *
-1.0	71804 *	72217 *	72222 *	72217 *	71804 *	70841 *	68701 *	66060 *	62879 *	59207 *
-3.0	71153 *	71727 *	71838 *	71727 *	71153 *	69834 *	67981 *	65375 *	62079 *	58272 *
-5.0	69724 *	70584 *	70619 *	70584 *	69724 *	68305 *	66406 *	63987 *	60885 *	56984 *
-7.0	67637 *	68244 *	68317 *	68244 *	67637 *	66233 *	64251 *	61792 *	58762 *	55043 *
-9.0	64665 *	65371 *	65439 *	65371 *	64665 *	63565 *	61586 *	59048 *	55854 *	52099 *
-11.0	61134 *	61861 *	62024 *	61861 *	61134 *	60205 *	58355 *	55718 *	52492 *	48791 *
-13.0	57060 *	57745 *	58042 *	57745 *	57060 *	55990 *	54335 *	51739 *	48531 *	44999 *
-15.0	52371 *	53191 *	53392 *	53191 *	52371 *	51220 *	49608 *	47107 *	44097 *	40821 *
-17.0	47135 *	47821 *	48072 *	47821 *	47135 *	45999 *	44411 *	42113 *	39422 *	36496 *
-19.5	40227 *	40879 *	41092 *	40879 *	40227 *	39145 *	37710 *	35845 *	33515 *	31402 *
-22.5	32256 *	32398 *	32178 *	32398 *	32256 *	31651 *	30774 *	29580 *	28087 *	26973 *
-25.5	27068 *	27109 *	27012 *	27109 *	27068 *	26712 *	26173 *	25452 *	24617 *	23891 *
-29.0	23180 *	23181 *	23112 *	23181 *	23180 *	22941 *	22584 *	22154 *	21679 *	21125 *
-33.0	19867 *	19900 *	19888 *	19900 *	19867 *	19750 *	19555 *	19270 *	18890 *	18451 *
-37.5	16793 *	16818 *	16800 *	16818 *	16793 *	16672 *	16497 *	16270 *	16010 *	15701 *
-42.5	13765 *	13778 *	13785 *	13778 *	13765 *	13590 *	13425 *	13210 *	12957 *	12675 *
-47.5	10566 *	10573 *	10577 *	10573 *	10566 *	10435 *	10309 *	10145 *	9942 *	9735 *
-55.0	6104	6057	6034	6057	6104	6049	5971	5868	5741	5593
-65.0	1840	1838	1837	1838	1840	1826	1810	1788	1761	1728
-75.0	674	676	677	676	674	672	664	659	652	644
-85.0	125	124	124	124	125	125	125	125	125	121
-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	0	1	1	2	3	6	9	11	14	15
75.0	87	98	110	122	132	140	144	150	150	138
65.0	824	805	780	747	716	665	611	548	484	416
55.0	3262	3139	2941	2731	2529	2228	1876	1470	1116	919
47.5	7076	6842	6519	6063	5555	4975	4254	3475	2526	1715
42.5	10247 *	9945 *	9474 *	8836 *	8150 *	7292 *	6270	5118	3867	2705
37.5	13450 *	13039 *	12442 *	11634 *	10886 *	9855 *	8567 *	7055	5381	3901
33.0	16499 *	15965 *	15254 *	14426 *	13412 *	12111 *	10704 *	8924 *	6850	4979
29.0	19582 *	18932 *	18018 *	16828 *	15625 *	14290 *	12462 *	10525 *	8133 *	5961
25.5	23028 *	21948 *	20645 *	19093 *	17567 *	15896 *	14019 *	11834 *	9247 *	6764

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CANDELA TABULATION - (Cont.)

22.5	26799 *	25050 *	23208 *	21172 *	19296 *	17307 *	15209 *	12937 *	10126 *	7466 *
19.5	31603 *	28997 *	26049 *	23338 *	21034 *	18680 *	16271 *	13878 *	10916 *	8106 *
17.0	36399 *	32983 *	28975 *	25245 *	22412 *	19802 *	17151 *	14548 *	11484 *	8600 *
15.0	40459 *	36276 *	31481 *	26966 *	23569 *	20626 *	17820 *	15050 *	11923 *	8969 *
13.0	44150 *	39629 *	34289 *	28822 *	24674 *	21431 *	18431 *	15514 *	12343 *	9308 *
11.0	47589 *	42780 *	36923 *	30621 *	25750 *	22168 *	18991 *	15908 *	12715 *	9613 *
9.0	50449 *	45526 *	39397 *	32462 *	27031 *	22827 *	19448 *	16223 *	13030 *	9883 *
7.0	52364 *	47566 *	41253 *	33928 *	28092 *	23390 *	19805 *	16483 *	13289 *	10116 *
5.0	53844 *	49062 *	42585 *	34935 *	28778 *	23844 *	20088 *	16685 *	13492 *	10303 *
3.0	54761 *	49924 *	43349 *	35517 *	29215 *	24141 *	20302 *	16864 *	13727 *	10473 *
1.0	55299 *	50338 *	43655 *	35782 *	29277 *	24321 *	20502 *	17044 *	13804 *	10505 *
0.0	55431 *	50517 *	43656 *	35716 *	29184 *	24357 *	20569 *	17100 *	13842 *	10521 *
-1.0	55053 *	50072 *	43390 *	35574 *	29164 *	24341 *	20581 *	17120 *	13846 *	10518 *
-3.0	53985 *	49096 *	42537 *	34899 *	28894 *	24198 *	20544 *	17090 *	13854 *	10511 *
-5.0	52572 *	47689 *	41224 *	33947 *	28286 *	23847 *	20333 *	16985 *	13692 *	10375 *
-7.0	50723 *	45830 *	39485 *	32655 *	27487 *	23371 *	20033 *	16812 *	13568 *	10277 *
-9.0	48014 *	43298 *	37258 *	31039 *	26492 *	22822 *	19660 *	16591 *	13396 *	10148 *
-11.0	44693 *	40329 *	34740 *	29186 *	25402 *	22228 *	19236 *	16327 *	13180 *	9979 *
-13.0	41125 *	37208 *	32449 *	27777 *	24458 *	21572 *	18774 *	16003 *	12923 *	9768 *
-15.0	37381 *	33825 *	30023 *	26254 *	23460 *	20864 *	18273 *	15617 *	12601 *	9517 *
-17.0	33438 *	30889 *	27796 *	24767 *	22449 *	20162 *	17716 *	15197 *	12197 *	9227 *
-19.5	29399 *	27558 *	25444 *	23233 *	21283 *	19228 *	16966 *	14625 *	11688 *	8821 *
-22.5	25751 *	24563 *	23179 *	21528 *	19904 *	18059 *	16048 *	13812 *	11044 *	8282 *
-25.5	23063 *	22191 *	21174 *	19886 *	18509 *	16864 *	15070 *	12739 *	10315 *	7678 *
-29.0	20524 *	19898 *	19055 *	18000 *	16861 *	15493 *	13785 *	11546 *	9290 *	6928 *
-33.0	17981 *	17476 *	16788 *	15925 *	14951 *	13660 *	11921 *	10188 *	8066 *	5955 *
-37.5	15343 *	14965 *	14436 *	13662 *	12629 *	11460 *	10141 *	8493 *	6647 *	4874 *
-42.5	12340 *	11979 *	11527 *	10886 *	10125 *	9147 *	7967 *	6611 *	5111 *	3605 *
-47.5	9493 *	9215 *	8808 *	8218 *	7580 *	6827 *	5892 *	4868 *	3610 *	2452 *
-55.0	5427 *	5238 *	4970 *	4593 *	4172 *	3644 *	3074 *	2417 *	1856 *	1493 *
-65.0	1691 *	1651 *	1595 *	1520 *	1446 *	1350 *	1234 *	1099 *	955 *	808 *
-75.0	636 *	626 *	612 *	592 *	570 *	540 *	502 *	459 *	407 *	346 *
-85.0	120 *	119 *	117 *	114 *	111 *	106 *	101 *	93 *	83 *	72 *
-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	13	11	8	3	0
75.0	118	79	35	9	0
65.0	317	190	86	15	0
55.0	653	369	158	24	0
47.5	1042	547	219	34	0
42.5	1369	682	268	40	0
37.5	1897	827	315	46	0
33.0	2546	962	355	50	0
29.0	3133	1081	394	54	0
25.5	3661	1187	425	57	0
22.5	4078	1275	450	59	0
19.5	4451	1366	473	61	0
17.0	4747	1435	490	63	0
15.0	4965	1486	502	64	0
13.0	5164	1533	514	65	0
11.0	5343	1576	524	68	0
9.0	5502	1608	533	68	0

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	5637	1636	541	68	0
5.0	5742	1659	551	68	0
3.0	5848	1682	554	69	0
1.0	5875	1690	557	69	0
0.0	5889	1694	559	69	0
-1.0	5901	1698	560	69	0
-3.0	5925	1706	563	69	0
-5.0	5871	1697	565	70	0
-7.0	5820	1689	560	70	0
-9.0	5734	1676	558	70	0
-11.0	5623	1656	554	71	0
-13.0	5488	1630	549	68	0
-15.0	5328	1599	543	68	0
-17.0	5144	1562	536	67	0
-19.5	4882	1510	524	66	0
-22.5	4538	1436	508	65	0
-25.5	4154	1365	488	63	0
-29.0	3648	1273	462	60	0
-33.0	3061	1163	428	57	0
-37.5	2404	1034	391	53	0
-42.5	1834	901	345	47	0
-47.5	1479	767	293	41	0
-55.0	1050	568	223	30	0
-65.0	593	326	135	19	0
-75.0	259	148	64	12	0
-85.0	56	34	18	4	0
-90.0	0	0	0	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : ZNF-70L-WF-40-GS.IES

LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 31606.79

Total Field Lumens (one side of beam only) = 28572.12

* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.01	0.03	0.06	0.10	0.14	0.17	0.21	0.24	0.27	0.38
75	1.37	2.75	2.73	2.73	2.74	2.75	2.73	2.70	2.66	3.24
65	6.89	13.75	13.66	13.49	13.28	12.99	12.64	12.24	11.76	13.86
55	13.13	26.28	26.13	25.80	25.37	24.77	24.05	23.24	22.31	26.36
47.5	14.59 *	29.10 *	28.88 *	28.53 *	28.11 *	27.51 *	26.78 *	25.94 *	24.97 *	29.63 *
42.5	19.90 *	39.62 *	39.30 *	38.85 *	38.25 *	37.48 *	36.55 *	35.45 *	34.17 *	40.59 *
37.5	22.97 *	45.73 *	45.38 *	44.77 *	43.94 *	42.94 *	41.76 *	40.39 *	38.84 *	46.13 *
33	25.33 *	50.46 *	50.03 *	49.12 *	47.94 *	46.60 *	45.07 *	43.36 *	41.57 *	49.30 *
29	27.38 *	54.54 *	54.03 *	52.80 *	51.12 *	49.10 *	47.04 *	44.96 *	42.78 *	50.33 *
25.5	29.42 *	58.55 *	57.79 *	56.11 *	53.80 *	50.93 *	48.09 *	45.39 *	42.53 *	49.28 *
22.5	36.91 *	73.39 *	72.18 *	69.77 *	66.48 *	62.41 *	58.12 *	53.79 *	49.39 *	56.03 *
19.5	36.81 *	73.16 *	71.91 *	69.53 *	66.27 *	62.27 *	57.67 *	52.62 *	47.57 *	52.88 *
17	33.22 *	65.87 *	64.69 *	62.67 *	59.90 *	56.45 *	52.34 *	47.67 *	42.78 *	46.90 *
15	36.02 *	71.36 *	70.18 *	68.21 *	65.35 *	61.68 *	57.36 *	52.42 *	47.00 *	51.23 *
13	38.21 *	75.87 *	74.83 *	72.85 *	69.91 *	66.17 *	61.81 *	56.73 *	50.99 *	55.55 *
11	40.17 *	79.83 *	78.77 *	76.66 *	73.65 *	69.95 *	65.60 *	60.47 *	54.56 *	59.53 *
9	41.83 *	83.16 *	82.01 *	79.87 *	76.84 *	73.07 *	68.63 *	63.36 *	57.36 *	62.82 *
7	43.12 *	85.70 *	84.42 *	82.29 *	79.31 *	75.46 *	70.82 *	65.40 *	59.39 *	65.25 *
5	43.88 *	87.21 *	85.96 *	83.88 *	80.86 *	76.90 *	72.17 *	66.76 *	60.78 *	66.87 *
3	44.10 *	87.82 *	86.78 *	84.69 *	81.56 *	77.61 *	72.95 *	67.60 *	61.58 *	67.71 *
1	22.04 *	43.96 *	43.49 *	42.43 *	40.87 *	38.94 *	36.64 *	33.99 *	30.98 *	34.02 *
0	22.01 *	43.89 *	43.41 *	42.35 *	40.76 *	38.81 *	36.51 *	33.89 *	30.90 *	33.92 *
-1	43.86 *	87.34 *	86.18 *	84.02 *	80.87 *	76.91 *	72.23 *	66.95 *	60.96 *	66.93 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	43.37 *	86.21 *	84.78 *	82.56 *	79.56 *	75.69 *	70.98 *	65.56 *	59.54 *	65.28 *
-5	42.30 *	84.08 *	82.62 *	80.34 *	77.35 *	73.62 *	69.03 *	63.64 *	57.63 *	63.00 *
-7	40.72 *	80.95 *	79.64 *	77.44 *	74.41 *	70.63 *	66.07 *	60.85 *	55.01 *	59.98 *
-9	38.79 *	77.03 *	75.83 *	73.83 *	70.80 *	66.93 *	62.34 *	57.22 *	51.63 *	56.27 *
-11	36.50 *	72.39 *	71.22 *	69.34 *	66.40 *	62.54 *	58.04 *	53.08 *	47.83 *	52.33 *
-13	33.87 *	67.08 *	65.83 *	63.97 *	61.17 *	57.44 *	53.17 *	48.57 *	43.79 *	48.27 *
-15	30.84 *	61.04 *	59.78 *	57.93 *	55.27 *	51.82 *	47.92 *	43.78 *	39.68 *	44.31 *
-17	33.86 *	67.00 *	65.52 *	63.34 *	60.36 *	56.58 *	52.45 *	48.30 *	44.39 *	50.48 *
-19.5	33.48 *	66.56 *	65.31 *	63.29 *	60.59 *	57.16 *	53.62 *	50.33 *	47.11 *	54.64 *
-22.5	27.12 *	54.26 *	53.64 *	52.40 *	50.67 *	48.48 *	46.29 *	44.19 *	41.97 *	49.42 *
-25.5	26.76 *	53.56 *	53.12 *	52.17 *	50.87 *	49.29 *	47.61 *	45.83 *	43.90 *	52.09 *
-29	26.22 *	52.44 *	52.10 *	51.40 *	50.41 *	49.19 *	47.76 *	46.15 *	44.44 *	52.95 *
-33	25.15 *	50.26 *	49.97 *	49.40 *	48.59 *	47.54 *	46.29 *	44.87 *	43.33 *	51.80 *
-37.5	23.29 *	46.54 *	46.20 *	45.58 *	44.79 *	43.83 *	42.71 *	41.42 *	39.99 *	47.83 *
-42.5	18.55 *	37.05 *	36.73 *	36.17 *	35.51 *	34.69 *	33.75 *	32.69 *	31.50 *	37.54 *
-47.5	18.98 *	38.01 *	37.78 *	37.22 *	36.53 *	35.65 *	34.65 *	33.52 *	32.25 *	38.28
-55	12.01	24.11	24.03	23.71	23.28	22.74	22.08	21.34	20.51	24.32
-65	3.83	7.65	7.61	7.53	7.42	7.29	7.13	6.94	6.74	8.11
-75	1.22	2.43	2.42	2.40	2.37	2.34	2.30	2.25	2.20	2.66
-85	0.09	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.17	0.21
-90										
Total	1160.13	2308.22	2277.15	2221.72	2143.86	2045.52	1932.11	1806.27	1669.7	1888.53

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.02
85	0.50	0.54	0.67	0.78	0.88	0.95	0.85	1.01	0.84	0.35
75	3.75	3.58	3.92	4.07	4.07	3.88	3.20	3.53	2.68	1.01
65	15.35	14.03	14.54	14.04	12.60	10.55	7.90	8.23	5.81	2.09
55	29.20	26.42	27.16	26.10	23.24	18.78	12.67	11.60	7.45	2.52

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

47.5										
	32.94 *	29.85	30.77	29.75	26.74	21.85	14.55	12.20	6.92	2.23
42.5	45.20 *	41.22 *	42.86 *	41.75 *	37.79	31.23	21.34	17.63	9.08	2.72
37.5	51.59 *	47.29 *	49.32 *	48.44 *	44.38 *	37.02	25.57	21.42	10.66	2.88
33	55.04 *	50.33 *	52.54 *	51.76 *	47.69 *	40.16 *	27.91	23.75	11.75	2.91
29	55.67 *	50.48 *	52.55 *	51.78 *	47.83 *	40.56 *	28.36 *	24.41	12.06	2.81
25.5	53.82 *	48.29 *	49.80 *	48.89 *	45.32 *	38.62 *	27.13 *	23.55	11.64	2.60
22.5	59.99 *	53.12 *	54.24 *	52.84 *	48.93 *	41.86 *	29.57 *	25.83	12.74	2.78
19.5	55.24 *	48.01 *	48.53 *	46.93 *	43.26 *	37.05 *	26.31 *	23.14	11.41	2.45
17	48.06 *	40.98 *	40.94 *	39.37 *	36.13 *	30.91 *	22.06 *	19.49	9.61	2.04
15	51.85 *	43.42 *	42.79 *	40.89 *	37.39 *	31.98 *	22.90 *	20.30	10.00	2.10
13	55.73 *	45.86 *	44.55 *	42.30 *	38.52 *	32.94 *	23.67 *	21.03 *	10.36	2.16
11	59.46 *	48.36 *	46.33 *	43.56 *	39.49 *	33.75 *	24.35 *	21.68 *	10.67	2.21
9	62.72 *	50.72 *	48.02 *	44.62 *	40.27 *	34.42 *	24.93 *	22.25 *	10.94	2.25
7	65.13 *	52.48 *	49.33 *	45.49 *	40.88 *	34.96 *	25.41 *	22.72 *	11.16	2.28
5	66.70 *	53.61 *	50.22 *	46.14 *	41.37 *	35.44 *	25.84 *	23.13 *	11.36	2.31
3	67.52 *	54.17 *	50.68 *	46.61 *	41.81 *	35.83 *	26.11 *	23.36 *	11.48	2.33
1	33.87 *	27.12 *	25.38 *	23.43 *	21.04 *	18.02 *	13.10 *	11.71 *	5.76	1.17
0	33.77 *	27.05 *	25.36 *	23.46 *	21.09 *	18.05 *	13.12 *	11.73 *	5.77	1.17
-1	66.71 *	53.65 *	50.51 *	46.81 *	42.16 *	36.11 *	26.23 *	23.47 *	11.58	2.36
-3	65.09 *	52.60 *	49.86 *	46.43 *	41.94 *	35.94 *	26.07 *	23.35 *	11.56	2.36
-5	62.83 *	51.08 *	48.80 *	45.73 *	41.50 *	35.61 *	25.79 *	23.11 *	11.47	2.35
-7	59.90 *	49.11 *	47.47 *	44.84 *	40.90 *	35.21 *	25.51 *	22.85 *	11.35	2.33
-9	56.40 *	46.80 *	45.94 *	43.83 *	40.19 *	34.70 *	25.14 *	22.50 *	11.17	2.31
-11	52.95 *	44.59 *	44.38 *	42.71 *	39.36 *	34.08 *	24.68 *	22.05 *	10.95	2.28
-13	49.69 *	42.55 *	42.81 *	41.50 *	38.42 *	33.33 *	24.12 *	21.51 *	10.68	2.25
-15	46.42 *	40.46 *	41.19 *	40.21 *	37.38 *	32.43 *	23.44 *	20.87 *	10.37	2.21
-17	53.98 *	47.86 *	49.23 *	48.34 *	45.12 *	39.15 *	28.22 *	25.07	12.45	2.69
-19.5	59.75 *	53.81 *	55.78 *	55.06 *	51.58 *	44.76 *	32.17 *	28.43	14.11	3.10

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-22.5	54.87 *	49.98 *	52.12 *	51.72 *	48.41 *	41.91 *	30.13 *	26.42	13.11	2.96
-25.5	58.31 *	53.51 *	56.16 *	55.93 *	52.04 *	44.79 *	32.23 *	28.02	13.90	3.27
-29	59.52 *	54.87 *	57.78 *	57.28 *	53.09 *	45.59 *	32.56 *	28.00	13.91	3.46
-33	58.36 *	53.69 *	56.19 *	55.43 *	51.30 *	43.82 *	30.94	26.19	13.11	3.53
-37.5	53.86 *	49.36 *	51.37 *	50.53 *	46.46 *	39.16	27.24	22.72	11.74	3.47
-42.5	42.05 *	38.41 *	39.90 *	38.94 *	35.45	29.45	19.89	16.74	9.47	3.00
-47.5	42.53	38.44	39.49	38.06	34.10	27.89	19.00	17.35	11.02	3.61
-55	27.04	24.48	25.14	24.28	21.89	18.45	13.76	14.09	9.65	3.26
-65	9.21	8.61	9.25	9.47	9.22	8.51	6.77	7.17	5.04	1.75
-75	3.06	2.89	3.14	3.26	3.23	3.04	2.44	2.62	1.89	0.69
-85	0.25	0.23	0.26	0.27	0.27	0.26	0.21	0.23	0.17	0.07
-90										
Total	1985.87	1713.89	1717.29	1653.65	1514.75	1293.03	923.44	816.48	418.90	100.70

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00	0.27	
85				
	0.07	0.00	9.05	
75				
	0.19	0.00	60.29	
65				
	0.37	0.01	230.09	
55				
	0.43	0.01	423.02	
47.5				
	0.37	0.01	472.21	
42.5				
	0.44	0.01	651.45	
37.5				
	0.46	0.01	751.87	
33				
	0.45	0.01	813.06	
29				
	0.43	0.01	841.03	
25.5				
	0.39	0.01	841.94	
22.5				
	0.41	0.01	980.79	
19.5				
	0.36	0.01	933.39	
17				
	0.30	0.00	822.38	

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

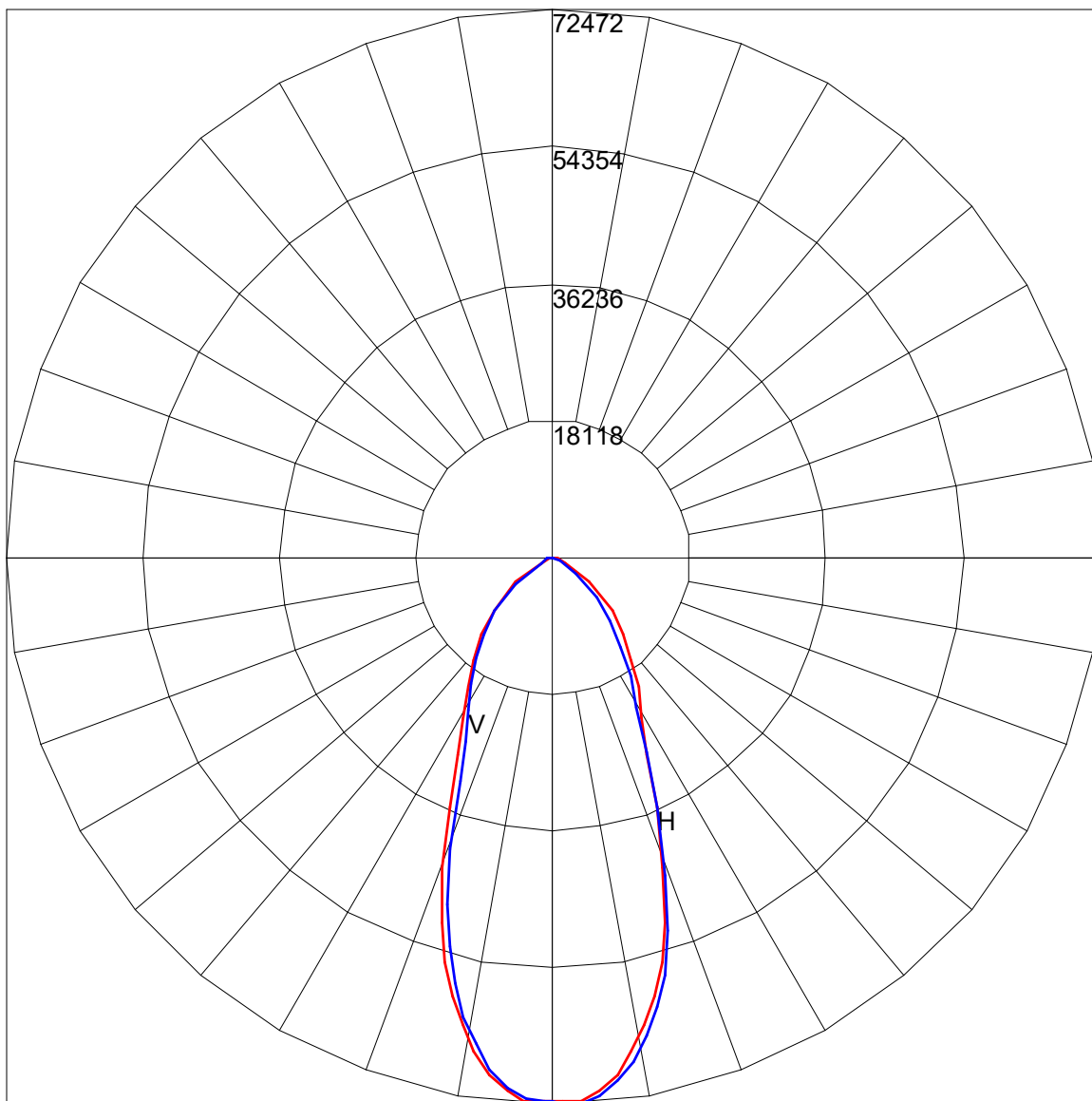
15	0.30	0.00	884.72
13	0.31	0.00	940.35
11	0.32	0.00	989.36
9	0.32	0.00	1030.4
7	0.32	0.00	1061.34
5	0.33	0.00	1081.73
3	0.33	0.00	1092.66
1	0.17	0.00	548.13
0	0.17	0.00	547.20
-1	0.33	0.00	1086.19
-3	0.33	0.00	1069.06
-5	0.33	0.00	1042.2
-7	0.33	0.00	1005.5
-9	0.33	0.00	959.96
-11	0.33	0.00	908.05
-13	0.32	0.00	850.34
-15	0.32	0.00	787.68
-17	0.39	0.01	894.79
-19.5	0.46	0.01	951.08
-22.5	0.45	0.01	840.52
-25.5	0.50	0.01	873.85
-29	0.53	0.01	879.66
-33	0.55	0.01	850.30
-37.5	0.55	0.01	778.66
-42.5	0.48	0.01	607.95
-47.5	0.58	0.01	614.96
-55	0.54	0.01	400.71
-65	0.30	0.01	145.58

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

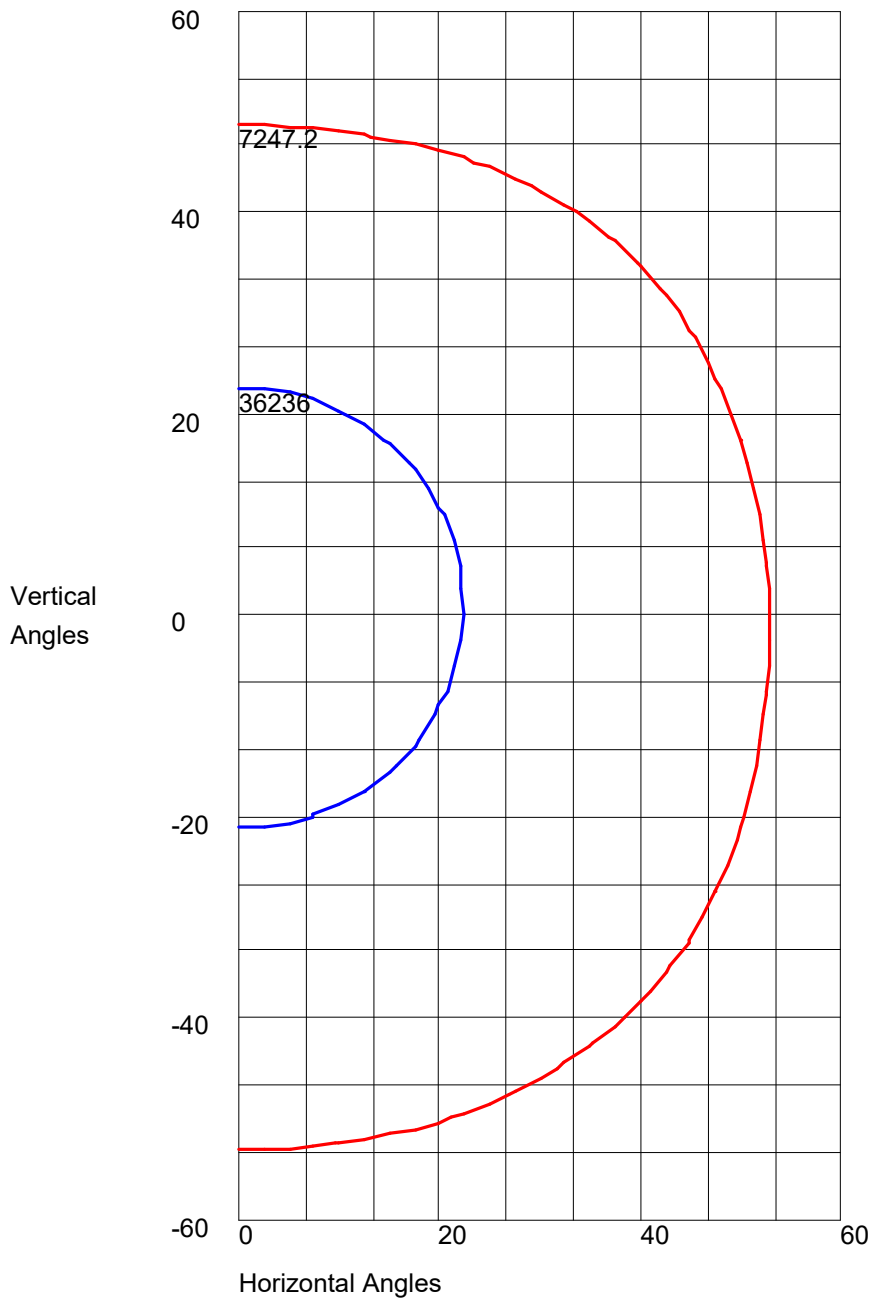
-75	0.13	0.00	49.00
-85	0.01	0.00	4.02
-90			
Total	15.36	0.23	31606.79

AXIAL CANDELA DISPLAY



Maximum Candela = 72472 Located At Horizontal Angle = 0, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 72472 Located At Horizontal Angle = 0, Vertical Angle = 3
50% Maximum Candela = 36236
10% Maximum Candela = 7247.2